

S.B. INTERNATIONAL, INC.
2108 Utopia Avenue
Nashville, TN 37211
1-800-THE-SEAT (843-7328) ORDER DESK ONLY PLEASE
OR
1-888-THE-SEAT (843-7328) ALL OTHER INQUIRIES
FAX # 615-248-6377
Website: www.sbintl.com



TABLE OF CONTENTS

Vehicle Make Index / Standard Abbreviations.....	ii
Catalog & Product Information.....	iii-ix
Warranty Policy.....	x
Domestic Performance Catalog	Performance Pages 1-8
K-Line® Catalog	K-Line® Pages 1-24
Alphabetical Application Information.....	1-964
Valve Seat Inserts Numerical & Progressive Size Listing.....	965-1001
Valves Numerical & Progressive Size Listing.....	1002-1037
Valve Keepers Numerical Listing.....	1038-1039
Valve Stem Seals Numerical & By Style, Type, Nominal I.D. Listing.....	1040-1051
Valve Guides Numerical & Progressive Size By I.D. Listing.....	1052-1074
Bronze Bullet® Guide Liners Numerical & Progressive Size By I.D. Listing.....	1075-1076
Valve Guide Liner & Miscellaneous Tooling Numerical Listing.....	1077-1082
Valve Springs Numerical & Progressive Size By O.D. Listing.....	1083-1096
Rotators & Retainers Numerical Listing.....	1097
Lifters Numerical Listing.....	1098
Rocker Arms, Kits & Components Numerical Listing.....	1099-1101
Pushrods Numerical & Progressive Size Listing By Length.....	1102-1107
Head Bolts - Torque To Yield Numerical Listing.....	1108-1109
Head Saver Shims Numerical Listing.....	1110
Heat Tabs & Adhesive Numerical Listing.....	1111
Injector Tubes & Components Numerical Listing.....	1112-1113
Buyers Guide Make Code Abbreviations.....	1114
Buyers Guide Application Listing.....	1115-1144
Competitive & OEM Interchanges.....	1145-1234
Spanish Product Information.....	1235-1242
Conversion Chart.....	1243

While the contents of this catalog are as complete as possible, SBI maintains an electronic catalog database updated on a daily basis. If you don't find the part you're looking for here, please call SBI Customer Service at 1-800-843-7328 and have them check our parts catalog database for parts additions or updates for you!

For an interactive electronic catalog, visit our web based catalog at www.sbi-e-catalog.com

© 2020 S.B. International, Inc.

All Rights Reserved

THE INFORMATION IN THIS CATALOG HAS BEEN GATHERED FROM THE BEST AVAILABLE RESOURCES. EVERY EFFORT HAS BEEN MADE TO ENSURE ACCURACY. HOWEVER, WE CANNOT ACCEPT RESPONSIBILITY FOR ERRORS OR OMISSIONS.

VEHICLE MAKE INDEX

ACURA
ALLIS-CHALMERS
AMC-See Chrysler Pass. Car/Truck
AUDI
BMW
BUDA
BUICK - See GM Pass. Car/Truck
CASE
CATERPILLAR
CHEVROLET - See GM Pass. Car
CHEVROLET TRUCK - See GM Truck
CHRYSLER PASSENGER CAR & TRUCK
CHRYSLER INDUSTRIAL
CHRYSLER MARINE
CLIMAX
CONTINENTAL
CUMMINS
DAEWOO
DETROIT DIESEL
DODGE - See Chrysler Pass. Car/Truck
FIAT
FORD INDUSTRIAL
FORD TRACTOR
FORD PASSENGER CAR
FORD TRUCK
GENESIS - See Hyundai Pass. Car/Truck
GEO - See GM Pass. Car/Truck
GM INDUSTRIAL
GM PASSENGER CAR
GM TRUCK
HARLEY DAVIDSON
HERCULES
HINO
HONDA
HYUNDAI
I.H.C. TRACTOR & POWER UNITS
I.H.C. / NAVISTAR
INFINITI
ISUZU
ISUZU INDUSTRIAL
IVECO
JAGUAR
JEEP - See Chrysler Pass. Car/Truck
JOHN DEERE
KIA
KOMATSU
KUBOTA

LANDROVER
LEXUS
LINCOLN - See Ford Pass. Car/Truck
MACK
MASSEY FERGUSON
MAZDA
MAZDA INDUSTRIAL
MERCEDES-BENZ PASSENGER CAR
MERCEDES-BENZ HEAVY DUTY
MERCEDES-BENZ PASSENGER TRUCK
MERCURY- See Ford Pass. Car/Truck
MERCURY MARINE
MINI
MINNEAPOLIS MOLINE
MITSUBISHI
MITSUBISHI INDUSTRIAL
MWM
NEW HOLLAND
NISSAN
NISSAN INDUSTRIAL
OLDSMOBILE -See GM Pass. Car/Truck
OLIVER TRACTOR
OMC MARINE
PACCAR
PERKINS
PLYMOUTH -See Chrysler Pass. Car/Truck
PONTIAC -See GM Pass. Car/Truck
RAM TRUCK - See Chrysler Pass. Car/Truck
RENAULT -See Chrysler Pass. Car/Truck
SAAB
SATURN -See GM Pass. Car/Truck
SCION
SHIBAURA
STUDABAKER
SUBARU
SUPERIOR
SUZUKI
THERMO KING
TOYOTA
TOYOTA INDUSTRIAL
VOLKSWAGEN
VOLVO INDUSTRIAL
VOLVO HEAVY DUTY
VOLVO
WAUKESHA
WISCONSIN
WITTE
YANMAR

STANDARD ABBREVIATIONS

Adjuster = Adj.
Active Fuel Mgt. = AFM
And = &
Barrel = Bbl.
California = Calif.
Carburetor = Carb.
Compressed Nat. Gas = CNG
Cylinder = Cyl.
Diameter = Dia.
Direct Injected = DI
Dynamic Fuel Mgt. = DFM
Engine(s) = Eng.
Except/Excluding = Exc.
Exhaust = Exh.
Federal = Fed.

Fuel Injected = F.I./EFI
Heavy Duty = H.D.
High Output = H.O.
High Performance = Hi-Perf.
Including = Incl.
Inside Diameter = I.D.
Intake = Int.
Left Hand = L.H.
Liquid Propane Gas = LPG
Mechanical = Mech.
Multi Port Fuel Injection = MFI
Optional/Alternate = Opt.
Original Equip. Mfgr. = OEM
Outside Diameter = O.D.
Overall = O/A

Oversize (d) = O/S
Powdered Metal = PM
Required = Req.
Right Hand = R.H.
Round = RD
Serial Number = S/N
Spiral Ream = SR
Standard = Std.
Stud Bolt = Std./Blt.
Square = SQ
Transmission = Trans.
Undersize (d) = U/S
With = W/
Without = W/O
With Washer = W/ Washer



ABOUT US

Founded 1982 in Nashville, Tennessee, S. B. International, Inc.® or SBI® is a premier supplier of cylinder head components in the automotive aftermarket in terms of product quality and availability, as well as customer and technical service. SBI supplies worldwide to engine parts distributors, production rebuilders, and specialty markets. Coverage includes automotive, light truck, heavy duty truck and equipment, agricultural, marine and industrial engines.

Beginning in 1982, SBI introduced J-LOY® brand Valve Seat Inserts, a product line focused on heavy-duty applications, which evolved to full-line coverage within several years. In 1991, SBI added to its lineup with its E-LOY® brand Engine Valves. With these two major cylinder head component lines, SBI introduced a full-product line in 1997—valve guides, valve keepers (locks), valve stem seals, valve springs, valve spring rotators, pushrods, rocker components and other related components—for cylinder head remanufacturing. In 2001 SBI acquired Ertel®, Ohio®, and Nylen® brand valve guide marketing rights to become the exclusive worldwide aftermarket distributor. To meet the demands of the cylinder head parts aftermarket, SBI added a full range of injector tubes for most popular heavy-duty applications to its product line in early 2007.

In 2008, SBI and K-Line Industries, Inc.® signed an agreement making SBI the Exclusive Master Distributor of K-Line's renowned Bronze Bullet® brand bronze valve guide liners and guide-liner tooling. For more than a quarter-century, K-Line® Bronze Bullet valve guide liners have consistently maintained their top spot around the world as the industry standard in engine rebuilding based on quality of material and manufacture, efficiency of installation, and durability. SBI is honored to team with K-Line in providing quality valve guide liners and guide-liner tooling to the world.

Components supplied by SBI are manufactured to meet or exceed original equipment manufacturers' (OEM) specifications and tested within our quality control lab using Statistical Process Control (SPC) to ensure correct specifications in every product.

SBI has warehouse distribution centers located throughout United States and Canada as well as an efficient network of authorized distributors and remanufacturers around the world. This infrastructure enables SBI to provide local support and dependable availability for customer convenience. SBI's commitment to inventory investment, as well as technical research and development, has earned the company the reputation of having the best customer and technical service, along with the best quality and availability of parts in the cylinder head parts aftermarket.

Celebrating more than thirty years of experience and expertise, SBI continues to be the dominant force in the valvetrain aftermarket by offering the latest and up-to-date product worldwide with unequalled customer and technical service.

PRODUCT INFORMATION

Valve Seat Inserts

All SBI Cast J-LOY High Chromium Hardened Valve Seat Inserts are a premium high carbon high chromium type iron based alloy with excellent corrosion and wear resistance with a typical hardness range of 35-45 HRc. This material is designed for use in most light to medium duty automotive and truck applications for intake and exhaust positions using unleaded gasoline. This material is also used in some moderate duty diesel intake positions and marine intake positions. Please refer to the application listings to confirm if this material is the correct material required for your application.

NOTE:

Several different alloys are utilized depending on the specific requirements of the engine.

Powdered Metal Valve Seat Inserts

SBI Powdered Metal Valve Seat Inserts are a sintered powdered metal carbon steel and tool steel matrix with tungsten. The superior machinability is achieved by adding special proprietary ingredients and solid dry lubricants to the composition. This material has excellent machinability and wear resistance and is suited for most light to medium duty automotive and truck applications using unleaded fuels just as our standard Cast J-LOY High Chromium Hardened Valve Seat Inserts. Please refer to the application listings to confirm if this material is the correct material required for your application.

Frequently asked questions. (FAQ's)

1. How do I know if an SBI Powder Metal Seat is available for my applications?

Look up your engine in the application section of the catalog. If a Powder Metal Seat is available you will find a note to that effect in the note column of the Valve Seat Insert section.

2. Can I use an SBI Powder Metal Seat for Diesel or Propane applications?

We do not recommend the use of SBI Powder Metal Seats for these applications. Use the seat recommended in the application section of the catalog.

3. How do I machine SBI Powder Metal Seats?

Depending on your machine you may have to INCREASE spindle speeds by up to 50%. On an SB1562-1PM seat we recommend using about 500 RPM to achieve the best surface finish.

4. What cutter life will I experience?

The tests we have run indicate that you can expect to cut from four to ten times as many seats before you have to sharpen the cutter. It really depends on what you cut in between cutting the Powder Metal Seats.

5. Are there any productivity gains?

The faster cutting speeds and longer tool life will greatly increase machine output. The floor to floor time will be substantially improved and machine down time will decrease.

6. What kind of surface finish can I expect?

The SBI Powder Metal Seat will provide one of the best finished seat surfaces of any seats available in the industry. With a sharp cutter and the correct spindle speeds you can expect a consistent "mirror" finish on the cut surface.

PRODUCT INFORMATION

Part Number Explanation

Letter "SB" Prefix indicates

Basic Part No.
4 Digits

Suffix = 2 Digits
Type of Material = Letter

SB = ALL Valve Seats

Nominal
Or Actual
O.D.

0 Thru 49 = High Chrome Universal Inserts For
Cast Iron Cylinder Heads
50 & Up = High Chrome Universal Inserts For
Aluminum Cylinder Heads
C = Stellite #3 or Tribaloy Cobalt Base
Materials
E = Factory Installed or Metric Universal
& Basic Part No. Is Actual O.D.
N = Star Series Non-Magnetic Material
PM = Powdered Metal

EXAMPLES: SB1562-1 = High-Chrome Premium Grade Material with 1-9/16" (1.562 Nominal O.D.)
SB1562-1N = Same as SB1562-1 except Star Series material.
SB1562-1PM = Same as SB1562-1 except Powdered Metal Material
SB2088E-1 = Factory-installed insert with 2.088 actual O.D.
SB2088E-1 + 030 = Same as above except +.030 Oversize with 2.118 actual O.D.

Automotive Inserts (Incl. Passenger Cars, Light & Medium Duty Trucks, Tractors, etc.)

1. Cast Iron Cylinder Heads

For ease in selecting and stocking inserts our part numbering system incorporates the cutter size as the basic part number on universal size seats. For example: SB1625-1, "1625" indicates this seat requires the use of a 1-5/8" cutter. Actual O.D. is 1.6305/1.6295 allowing for press fit. For factory-installed replacement inserts, the basic part number is the exact O.D. followed by suffix "E". For example: SB1678E-1, "1678E" indicates a factory-installed seat with an actual O.D. of 1.678".

2. Aluminum Cylinder Heads

The same part numbering logic is used for these inserts and they are identified with suffix 50 & greater. **NOTE:** These inserts are oversized from the OEM Metric size to the next largest standard U.S. cutter size. For example: SB1500-57, "1500" indicates this seat requires the use of a 1-1/2" cutter. Actual O.D. is 1.507 allowing for .007 recommended press fit for aluminum heads. These inserts also have a blended radius on the installation side to prevent damage to the counterbore during installation.

3. "Star Series" Valve Seats

Super-Premium Non-Magnetic "STAR SERIES" Exhaust Valve Seats for Passenger Cars, Lt. & Md. Duty Trucks, Stationary Eng., etc. operating on Propane, LPG & Natural Gas. Due to a variety of factors, certain exhaust valve seats particularly in engines operating on Propane, LPG & Natural Gas require super high hot hardness characteristics. "STAR SERIES" is a true Non-Magnetic insert which will retain its hardness beyond 1600° F. Part numbers are the same as our Regular Premium Series seats with the addition of suffix "N". For complete size information, see Numerical or Progressive size list.

4. Heavy Duty Diesel Inserts

J-LOY inserts for Heavy Duty Diesel Engines (Caterpillar, Cummins, Detroit Diesel, Mack, etc.) are supplied in materials that meet or exceed OEM specifications for the particular application. Standard size inserts are exact O.E. duplicates dimensionally and oversize inserts have been designed to meet particular requirements of the aftermarket.

THE "STAR SERIES" STORY

The Super-Premium "STAR SERIES" valve seat is intended for Exhaust applications operating on Propane, LPG, Natural Gas as well as other difficult applications where extreme heat may be encountered. Several years ago it became apparent that in certain cases remanufactured cylinder heads for such engines experienced severe and rapid exhaust valve seat erosion. This erosion was noted on premium "Hi-Chrome" Stainless seats as well as other manufacturer's Nickel Base Material.

It should be pointed out that the above materials should be more than adequate to handle exhaust applications for Propane and all other fuels. Many customers have used and continue to use regular type Premium valve seats for these engines and report no problems. We believe that failures may be caused by, but not limited to the following factors:

- 1) Improper air-fuel mixture
- 2) Improper timing
- 3) Emission control devices
- 4) Stop and go operation. Excessive idling, Abusive operation, Excessive vehicle weight for engine, etc. (Delivery Vans, Taxis, Stationary Engines, etc.)

"STAR SERIES" is a true Nickel/Cobalt Non-Magnetic insert which will retain its hardness beyond 1600° F. This is substantially beyond other premium valve seats available in the aftermarket. We are presently offering over 100 sizes of "STAR SERIES" valve seats. These sizes will cover nearly all of the exhaust valve seats required on engines operating on Propane, LPG, and Natural Gas. Part numbers are the same as our regular Premium grade seats with the addition of suffix "N" (Non-Magnetic).

For complete information on the above parts, refer to numerical or diametric listings.

SUPER UNIVERSAL REPAIR INSERTS

SBI Super Universal Repair Valve Seat Inserts, A.K.A. "A Hockey Puck With A Hole In It", are offered in a range of sizes in 1/16" incremental O.D.s from 1" to 2-3/8". All seats have a 1/4" wall thickness and 7/16" depth. This range of sizes should cover most of those odd repair situations.

<u>PART#</u>	<u>I.D.</u>	<u>O.D.</u>	<u>DEPTH</u>
SB1000-3	1/2	1	7/16
SB1062-6	9/16	1-1/16	7/16
SB1125-11	5/8	1-1/8	7/16
SB1187-12	11/16	1-3/16	7/16
SB1250-13	3/4	1-1/4	7/16
SB1312-16	13/16	1-5/16	7/16
SB1375-27	7/8	1-3/8	7/16
SB1437-32	15/16	1-7/16	7/16
SB1500-33	1	1-1/2	7/16
SB1562-44	1-1/16	1-9/16	7/16
SB1625-41	1-1/8	1-5/8	7/16
SB1687-42	1-3/16	1-11/16	7/16
SB1750-43	1-1/4	1-3/4	7/16
SB1875-39	1-3/8	1-7/8	7/16
SB1937-39	1-7/16	1-15/16	7/16
SB2000-24	1-1/2	2	7/16
SB2062-20	1-9/16	2-1/16	7/16
SB2187-31	1-11/16	2-3/16	7/16
SB2250-17	1-3/4	2-1/4	7/16
SB2312-8	1-13/16	2-5/16	7/16
SB2375-15	1-7/8	2-3/8	7/16

PRODUCT INFORMATION

Valves

S.B. International is the marketer of E-LOY brand engine valves. All E-LOY engine valves are manufactured utilizing the latest processes, techniques and statistical methods available in the industry today. Materials used consist of Austenitic (Non-Magnetic) or Martensitic (Magnetic) Steels and Nickel Base Super Alloys along with other Cobalt, Iron and Nickel Base facing alloys which have been designed to run in modern unleaded fuel and Diesel engines. Chrome Plating is provided where specific engine applications require it.

Gaseous Fuel Applications

S.B. International supplies the most comprehensive model coverage in the industry. We supply valves for factory converted LPG/Propane engines, valves for the most popular Aftermarket converted engines and coverage for the Liquefied Natural Gas (LNG) engines running in both Automotive and Oil and Natural Gas applications. These engines require a specific combination of valve and seat materials to give good service life. The replacement of ONLY the valve or ONLY the seat can often cause problems for the Rebuilder as one mismatched component will often cause the mating part to fail. It is not safe to assume that a worn valve is all that needs to be replaced. The worn valve may be caused by the use of an incorrect seat material in that application. If you are not sure the mating part is correct for the fuel being used it is always recommended to replace BOTH components at the same time.

Valve Symbols And Explanation

“S” Suffix = Stellite Faced. Required for many Heavy Duty Diesel and some gasoline exhaust valve applications. Used where corrosion and burning are a problem and shown as an optional valve in some applications.

“SN” Suffix = Stellite Faced & Sodium Cooled. Used in some Heavy Duty applications and features a hollow stem which is partially filled with sodium that transfers the heat away from the critical valve head area.

Valve Stem Seals

A valve stem seal list sorted by valve stem diameter is located in the back of the catalog. This listing will enable the installer to find a seal by size and type of seal required. The practice of selecting seals in this manner should be considered a “last resort” exercise when no other listing can be found. The materials used in today’s emission controlled gas and diesel engines are specifically selected to provide the best performance under all operating conditions. Often the materials differ from intake to exhaust even though the size specifications are the same. It is for these reasons we recommend that the application section be checked for these application specific situations before selecting seals by stem size only.

Valve Guides

The SBI line of Valve Guides is primarily supplied in various types of Cast Iron Materials. The requirements of modern emission control engines presents unique challenges to the cylinder head rebuilder. Almost all new OEM engine designs incorporate positive valve stem seals and chrome plated valves to reduce exhaust emissions. This fact together with higher operating temperatures has made good guide lubrication a prerequisite of a good valve job. SBI offers valve guides with an internal spiral groove (SR) designed to provide excellent oil retention and fight valve guide wear.

It is not uncommon to find loose guides in overheated Aluminum Heads. Where necessary S.B.I. supplies guides with an external snap ring to prevent guide movement. In these critical engines a +0.002” or a +0.006” oversize O.D. is available. This information is listed in the Notes column of the application section of the catalog.

PRODUCT INFORMATION

Valve Springs

S.B. International has put together the most comprehensive and accurate Valve Spring Specifications listing available today. Each spring has been tested to provide the latest information available. In some cases the spring specifications may have changed from those originally installed in the cylinder head. Where possible we have indicated in the applications section where a spring can replace an earlier version or where some casting modifications may be required. It is also not safe to assume that the test specifications represent the actual spring installed height requirements. Although this is true in many cases it is always recommended to check installed height requirements against the OEM specifications.

Push Rods

The S.B. International push rod specifications changed in 2005. Previous listings required the use of "Graduated Checking Balls" when measuring drilled or cupped push rods. These graduated balls were inserted into the drilling or cup and the resulting measurement was listed as the overall length. This was done to OEM specifications so that the effective operating length of the push rod was measurable. The lack of availability of these checking balls has resulted in an industry wide problem in measuring push rods. SBI has measured every push rod and now lists the actual measurable length using equipment available in every Rebuilder's shop. It should be noted that variations to specifications will be greater for push rods with forged cups due to variations in "as forged" components.

Head Saver Shims

If an Overhead Cam Cylinder Head has been excessively machined the distance between the Cam and the Crank centerline is too small. This will affect the valve timing and the engine will not run properly. There is also a very good chance that the engine will not pass emissions tests. SBI Head Saver Shims are designed to replace this lost height and restore the centerline distance. These Shims are 0.020" thick and are made from steel. They should be installed on the block surface directly under the Head Gasket. Overhead Valve Cylinder Heads are also good candidates for shims. Surface machining reduces combustion chamber size boosting the compression ratio and potential for gasket failure. On V6 and V8 OHV heads, thinner heads can cause intake manifold misalignment. The Head Saver Shim corrects this.

Torque To Yield Bolts

Many current engine designs use bolts that are called "Torque To Yield". As the name implies, these bolts are designed to stretch a certain amount when tightened correctly. During the Heat Cooling Cycle these bolts often take a permanent set and are not capable of regaining the correct torque if re-used. It is recommended that on all engines requiring Torque To Yield Bolts that the bolts are replaced every time the head is removed. Refer to the factory manuals for the correct tightening specifications for each engine. SBI sells TTY Bolts in engine sets for 4 cylinder engines because they normally have only one cylinder head. In the case of the "V" style engines where only one head may have been removed we sell head bolts in single head packs. This means that in most applications two sets will be required for a complete engine. The Notes column of the catalog application section will indicate how many sets are required for that engine.

Valve Keepers

Many Valve Keeper groove failures are due to the use of worn Valve Keepers. When an engine has to run for many miles, the components in the valve train "wear in" together and form wear patterns on mating parts. Often when a cylinder head is rebuilt, these parts are all cleaned together. When the head is reassembled, the mating parts are not assembled in the same order, and the wear patterns are now different. This will cause stress fractures especially when new valves are installed with mismatched worn keepers.

It is recommended that new keepers are **always** installed during cylinder head reconditioning procedures!

PRODUCT INFORMATION

Heat Tabs

In most cases the Engine Rebuilder has no control over the installation procedure used on his products. The new head or engine may be running with the same leaky radiator that caused the problem in the first place. SBI recommends the use of heat tabs which give some indication as to engine operating temperatures. Heat Tabs will not indicate individual cylinder conditions, only the coolant temperature in the engine.

<u>Part No.</u>	<u>Melting Point</u>	<u>Qty.</u>
231-1001	250° - 255°	100 Tabs
231-1002	225° - 230°	100 Tabs
231-1000	Adhesive	3.0 Oz.

SBI is now offering the **LOCTITE**® Brand **Threadlocker Red 271** & **Sleeve Retainer Green 640**.

<u>Part No.</u>	<u>Size</u>
231-271L	36ml
231-640L	36ml

LOCTITE

Injector Tubes, O-Rings And Water Directors

S.B. International, Inc. is now offering **Injector Tubes, O-Rings and Water Directors** for the most popular Heavy Duty Diesel applications.

Our Injector Tubes, O-Rings and Water Directors meet and/or exceed all OEM materials to include **Copper, Stainless Steel, Cast Iron and Brass** as well as all dimensional requirements in order to meet the demands of today's tougher emission standards and ultimately provide a quality product to our customers.

Valve Guide-Liners® / Valve Guide-Liner® Tooling & Miscellaneous Tooling

S.B. International, Inc. is the exclusive master distributor of K-Line® Bronze Bullet Guide-Liners®, Valve Guide-Liner® Tooling and Miscellaneous Tooling.

For more information, please see the K-Line® master catalog number 118-50 available as a download on our website or by contacting SBI Customer Service at 1-800-843-7328.

K-Line®

BRONZE BULLET®



S. B. INTERNATIONAL, INC.
LIMITED WARRANTY

All products sold by S. B. International, Inc. are warranted to the consumer owner for one (1) year from the date of installation to be free from substantive defects in materials or workmanship.

This Warranty does not apply to any product that has been altered, misused, subject to excessive operating conditions, malfunctions because of foreign particles such as engine dirt or pieces of other deteriorating engine components, products used in a vehicle that has been altered for other than intended purposes.

If a product fails to conform to this warranty, the product should be returned to the place of purchase, then sent back, prepaid to S. B. International. If S. B. International determines that this product fails to conform to this warranty, it will either replace the product or refund its original purchase price, at the option of S. B. International. Purchaser's sole and exclusive remedy under this warranty shall be limited to replacement of the defective part only. S.B. International shall not be responsible for any lost profit or consequential damages of any nature alleged to have been caused by any product defect.

THIS LIMITED WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY OTHER IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR WARRANTY OF QUALITY, WHETHER EXPRESS OR IMPLIED, EXCEPT THE WARRANTY OF TITLE. ALL IMPLIED WARRANTIES ARE LIMITED TO THE DURATION OF THIS WARRANTY. THE REMEDIES SET FORTH IN THIS WARRANTY ARE EXCLUSIVE..

THIS S.B. INTERNATIONAL, INC. LIMITED WARRANTY DOES NOT APPLY TO K-LINE® BRANDED ITEMS. PLEASE REFER TO THE K-LINE® CATALOG SECTION "PRODUCT PERFORMANCE / RETURNS" FOR DETAILS.

The information in this catalog has been gathered from the best available resources. Every effort has been made to ensure accuracy. However, we cannot be responsible for errors or omission.

ACURA / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
1497cc, (1.5L), SOHC, ELECTRIC/GAS, FI, 8 Valve, LEA2, ""i-VTEC Hybrid"" (2013-15)	ILX	1
1590cc, (1.6L), DOHC, GAS, FI, 16 Valve, D16A1 (1986-89)	Integra	2
1678cc, (1.7L), DOHC, GAS, FI, 16 Valve, B17A1, ""VTEC"" (1992-93)	Integra	3
1797cc, (1.8L), DOHC, GAS, FI, 16 Valve, B18C1, ""VTEC"" (1994-01)	Integra GS-R	4
1797cc, (1.8L), DOHC, GAS, FI, 16 Valve, B18C5, ""VTEC"" (1997-01)	Integra	5
1834cc, (1.8L), DOHC, GAS, FI, 16 Valve, B18A1, B18B1 (1990-01)	Integra	6
1996cc, (2.0L), DOHC, GAS, FI, 16 Valve, K20C4, ""i-VTEC TURBO"" (2019-21)	RDX	7
1997cc, (2.0L), SOHC, GAS, FI, 16 Valve, R20A5, ""i-VTEC"" (2013-15)	ILX	8
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, K20A2, ""i-VTEC"" (2002-04)	RSX Type-S	9
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, K20A3, ""i-VTEC"" (2002-06)	RSX	10
2156cc, (2.2L), SOHC, GAS, FI, 16 Valve, F22B1, ""VTEC"" (1997-97)	CL	11
2254cc, (2.3L), SOHC, GAS, FI, 16 Valve, F23A1 (1998-99)	CL	12
2300cc, (2.3L), DOHC, GAS, FI, 16 Valve, K23A1, ""i-VTEC TURBO"" (2007-12)	RDX	13
2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24A2, ""i-VTEC"" (2004-08)	TSX	14
2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Z3, ""i-VTEC"" (2009-14)	TSX	15
2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Z7, ""i-VTEC"" (2013-15)	ILX	16
2356cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24V7, ""i-VTEC"" (2016-20)	ILX	17
2356cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24W7, ""i-VTEC"" (2015-20)	TLX	18
5 Cylinder		
2451cc, (2.5L), SOHC, GAS, FI, 20 Valve, G25A1 (1992-94)	Vigor	19
2451cc, (2.5L), SOHC, GAS, FI, 20 Valve, G25A4 (1995-98)	TL	20
6 Cylinder		
2494cc, (2.5L), SOHC, GAS, FI, 24 Valve, C25A1 (1986-87)	Legend, Sterling 825	21
2675cc, (2.7L), SOHC, GAS, FI, 24 Valve, C27A1 (1987-90)	Legend, Sterling 827	22
2977cc, (3.0L), DOHC, GAS, FI, 24 Valve, C30A1, ""VTEC"" (1991-05)	NSX	23
2997cc, (3.0L), SOHC, GAS, FI, 24 Valve, J30A1, ""VTEC"" (1997-99)	CL	24
2997cc, (3.0L), SOHC, ELECTRIC/GAS, FI, 24 Valve, JNA2, ""i-VTEC Hybrid"" (2017-20)	MDX	25
3165cc, (3.2L), SOHC, GAS, FI, 24 Valve, Vin V, 6VD1 ""Isuzu"" (1996-97)	SLX	26
3206cc, (3.2L), SOHC, GAS, FI, 24 Valve, C32A1 (1991-95)	Legend L, LS, SE	27

ACURA / PASSENGER CAR OR TRUCK (Cont'd)

Engine	Models	Line No.
6 Cylinder		
3206cc, (3.2L), SOHC, GAS, FI, 24 Valve, C32A1 ""GS Models"" (1994-95)	Legend GS	28
3206cc, (3.2L), SOHC, GAS, FI, 24 Valve, C32A6 (1996-98)	TL	29
3210cc, (3.2L), SOHC, GAS, FI, 24 Valve, J32A1, ""VTEC"" (1999-03)	CL, TL	30
3210cc, (3.2L), SOHC, GAS, FI, 24 Valve, J32A2, ""VTEC"" (2001-03)	CL, TL	31
3210cc, (3.2L), SOHC, GAS, FI, 24 Valve, J32A3, ""VTEC"" (2004-08)	TL	32
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A3, ""VTEC"" (2001-02)	MDX	33
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A5, ""VTEC"" (2003-06)	MDX	34
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A8, ""VTEC"" (2005-08)	RL, TL	35
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Y4, ""VTEC"" (2014-20)	RLX	36
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Y5, ""VTEC"" (2014-20)	MDX	37
3471cc, (3.5L), DOHC, SOHC, GAS, FI, 24 Valve, J35Y6, ""i-VTEC"" (2015-20)	TLX	38
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z2, ""i-VTEC"" (2013-18)	RDX	39
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z6, ""VTEC"" (2009-14)	TL, TSX	40
3471cc, (3.5L), SOHC, ELECTRIC/GAS, FI, 24 Valve, JNB1, ""i-VTEC Hybrid"" (2014-20)	RLX	41
3475cc, (3.5L), SOHC, GAS, FI, 24 Valve, C35A1, ""VTEC"" (1996-04)	RL	42
3493cc, (3.5L), DOHC, ELECTRIC/GAS, FI, 24 Valve, JNC1, ""VTEC Hybrid TURBO"" (2017-20)	NSX	43
3494cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin X, 6VE1 ""Isuzu"" (1998-99)	SLX	44
3664cc, (3.7L), SOHC, GAS, FI, 24 Valve, J37A1, ""VTEC"" (2007-12)	MDX	45
3664cc, (3.7L), SOHC, GAS, FI, 24 Valve, J37A2, ""VTEC"" (2009-12)	RL	46
3664cc, (3.7L), SOHC, GAS, FI, 24 Valve, J37A4, ""VTEC"" (2009-14)	TL	47
3664cc, (3.7L), SOHC, GAS, FI, 24 Valve, J37A5, ""VTEC"" (2010-13)	ZDX	48
1 1497cc, (1.5L), SOHC, ELECTRIC/GAS, FI, 8 Valve, LEA2, ""i-VTEC Hybrid"" ACU-LEA2 2013-15 L4 91 CID BORE - 73mm/2.87""		

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2013-15	121-1060	1 RD Bead Type
Stem Seal	Int	2013-15	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2013-15	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2013-15	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2013-15	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

(Cont'd) **ACURA / PASSENGER CAR OR TRUCK**

1590cc, (1.6L), DOHC, GAS, FI, 16 Valve, D16A1
1986-89 L4 97 CID

ACU-D16A1 2
BORE - 75.2mm/2.96"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1986-89	SB1187-54	1 $\frac{3}{16}$ O.D.,0.880 I.D.,0.2800 Depth
	Both	1986-89	SB1250-62	1 $\frac{1}{4}$ O.D.,1.000 I.D.,0.3050 Depth
Keeper	Both	1986-89	121-1054	1 RD Bead Type
Stem Seal	Both	1986-87	122-1136	Positive Type,Viton Material,Ring & Spring Style,NOTE: 1986 - Early 1987, W/ Guide Height 5.8mm
		1987-89	122-1152	Positive Type,Viton Material,Metal Clad Style,NOTE; Late 1987-1989 W/ Guide Height 6.3mm
Guide	Int	1986-89	140-8156	0.2605 I.D.,1.770 Length,0.4765 O.D.
	Exh	1986-89	140-8155	0.2605 I.D.,1.975 Length,0.4765 O.D.

1678cc, (1.7L), DOHC, GAS, FI, 16 Valve, B17A1, ""VTEC""
1992-93 L4 102 CID

ACU-B17A1 3
BORE - 81mm/3.19"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1992-93	SB1375-56	1 $\frac{3}{8}$ O.D.,1.102 I.D.,0.2600 Depth
	Exh	1992-93	SB1250-58	1 $\frac{1}{4}$ O.D.,0.955 I.D.,0.2550 Depth
Valve	Int	1992-93	10434	1.299 Head Diameter
	Exh	1992-93	10435	1.103 Head Diameter
Keeper	Both	1992-93	121-1060	1 RD Bead Type
Stem Seal	Int	1992-93	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	1992-93	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1992-93	140-8397	0.2173 I.D.,1.640 Length,0.4765 O.D.
		1992-93	340-1007BR	0.2161 I.D.,1.641 Length,0.4755 O.D.,Optional Bronze Guide
	Exh	1992-93	140-8577	0.2175 I.D.,1.875 Length,0.4763 O.D.
		1992-93	340-1008BR	0.2165 I.D.,1.870 Length,0.4750 O.D.,Optional Bronze Guide
Head Saver Shim		1992-93	230-2123	New Hgt. 5.589 - 5.593; Min. Hgt. 5.581

1797cc, (1.8L), DOHC, GAS, FI, 16 Valve, B18C1, ""VTEC""
1994-01 L4 110 CID

ACU-B18C1 4
BORE - 81mm/3.19"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1994-01	SB1375-56	1 $\frac{3}{8}$ O.D.,1.102 I.D.,0.2600 Depth
	Exh	1994-01	SB1250-58	1 $\frac{1}{4}$ O.D.,0.955 I.D.,0.2550 Depth
Valve	Int	1994-01	10434	1.299 Head Diameter
	Exh	1994-01	10435	1.103 Head Diameter
Keeper	Both	1994-01	121-1060	1 RD Bead Type
Stem Seal	Int	1994-01	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	1994-01	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1994-01	140-8397	0.2173 I.D.,1.640 Length,0.4765 O.D.
		1994-01	340-1007BR	0.2161 I.D.,1.641 Length,0.4755 O.D.,Optional Bronze Guide
	Exh	1994-01	140-8577	0.2175 I.D.,1.875 Length,0.4763 O.D.
		1994-01	340-1008BR	0.2165 I.D.,1.870 Length,0.4750 O.D.,Optional Bronze Guide
Head Saver Shim		1994-01	230-2123	New Hgt. 5.589 - 5.593; Min. Hgt. 5.581

1797cc, (1.8L), DOHC, GAS, FI, 16 Valve, B18C5, ""VTEC""
1997-01 L4 110 CID

ACU-B18C5 5
BORE - 81mm/3.19"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1997-01	SB1375-56	1 $\frac{3}{8}$ O.D.,1.102 I.D.,0.2600 Depth
	Exh	1997-01	SB1250-58	1 $\frac{1}{4}$ O.D.,0.955 I.D.,0.2550 Depth
Valve	Int	1997-01	10434	1.299 Head Diameter
	Exh	1997-01	10435	1.103 Head Diameter
Keeper	Both	1997-01	121-1060	1 RD Bead Type

ACURA / PASSENGER CAR OR TRUCK (Cont'd)

5 1797cc, (1.8L), DOHC, GAS, FI, 16 Valve, B18C5, ""VTEC"" ACU-B18C5
 (cont.) 1997-01 L4 110 CID BORE - 81mm/3.19""

PART	YEARS	PART NO.	NOTES	
Stem Seal	Int	1997-01	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	1997-01	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1997-01	140-8397	0.2173 I.D.,1.640 Length,0.4765 O.D.
		1997-01	340-1007BR	0.2161 I.D.,1.641 Length,0.4755 O.D.,Optional Bronze Guide
	Exh	1997-01	140-8577	0.2175 I.D.,1.875 Length,0.4763 O.D.
		1997-01	340-1008BR	0.2165 I.D.,1.870 Length,0.4750 O.D.,Optional Bronze Guide
Head Saver Shim	1997-01	230-2123	New Hgt. 5.589 - 5.593; Min. Hgt. 5.581	

6 1834cc, (1.8L), DOHC, GAS, FI, 16 Valve, B18A1, B18B1 ACU-B18A1-B1
 1990-01 L4 112 CID BORE - 81mm/3.19""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1990-01	SB1312-64	1 ⁵ / ₁₆ O.D.,1.045 I.D.,0.3160 Depth
	Exh	1990-01	SB1250-63	1 ¹ / ₄ O.D.,0.930 I.D.,0.3250 Depth
Valve	Int	1990-95	10122	1.217 Head Diameter
		1996-01	10742	1.224 Head Diameter
	Exh	1990-01	10196	1.102 Head Diameter
Keeper	Both	1990-01	121-1054	1 RD Bead Type
Stem Seal	Both	1990-01	122-1152	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1990-93	140-8156	0.2605 I.D.,1.770 Length,0.4765 O.D.
		1994-01	140-8578	0.2605 I.D.,1.775 Length,0.4763 O.D.,W/Snap Ring
	Exh	1990-93	140-8155	0.2605 I.D.,1.975 Length,0.4765 O.D.
		1994-01	140-8579	0.2605 I.D.,1.970 Length,0.4755 O.D.,W/ Snap Ring

7 1996cc, (2.0L), DOHC, GAS, FI, 16 Valve, K20C4, ""i-VTEC TURBO"" ACU-K20C4
 2019-21 L4 122 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2019-20	121-1060	1 RD Bead Type
Guide	Both	2019-20	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring

8 1997cc, (2.0L), SOHC, GAS, FI, 16 Valve, R20A5, ""i-VTEC"" ACU-R20A5
 2013-15 L4 122 CID BORE - 81mm/3.19""

PART	YEARS	PART NO.	NOTES	
Valve	Exh	2013-15	10525	1.023 Head Diameter,Recommended OEM Nickel Base Inconel Material
Keeper	Both	2013-15	121-1060	1 RD Bead Type
Stem Seal	Int	2013-15	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2013-15	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2013-15	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2013-15	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

9 1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, K20A2, ""i-VTEC"" ACU-K20A2
 2002-04 L4 122 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES	
Guide	Int	2002-04	140-3136	0.2173 I.D.,1.630 Length,0.4370 O.D.
	Exh	2002-04	140-3137	0.2173 I.D.,1.790 Length,0.4370 O.D.

10 1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, K20A3, ""i-VTEC"" ACU-K20A3
 2002-06 L4 122 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES	
Stem Seal	Int	2002-06	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2002-06	122-1202	Positive Type,Viton Material,Metal Clad Style

(Cont'd) **ACURA / PASSENGER CAR OR TRUCK**

1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, K20A3, ""i-VTEC"" ACU-K20A3 **10**
2002-06 L4 122 CID BORE - 86mm/3.39"" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Int	2002-06	140-3136	0.2173 I.D.,1.630 Length,0.4370 O.D.
	Exh	2002-06	140-3137	0.2173 I.D.,1.790 Length,0.4370 O.D.

2156cc, (2.2L), SOHC, GAS, FI, 16 Valve, F22B1, ""VTEC"" ACU-F22B1 **11**
1997-97 L4 132 CID BORE - 85mm/3.35""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1997-97	SB1375-55	1% O.D.,1.120 I.D.,0.3250 Depth
	Exh	1997-97	SB1250-64	1¼ O.D.,0.970 I.D.,0.2700 Depth
Valve	Int	1997-97	10541	1.339 Head Diameter
	Exh	1997-97	10542	1.142 Head Diameter,Inconel
Keeper	Both	1997-97	121-1060	1 RD Bead Type
Stem Seal	Int	1997-97	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	1997-97	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1997-97	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	1997-97	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
Spring	Int	1997-97	160-1393	2.020 Length
	Exh	1997-97	160-1394	2.185 Length
Head Saver Shim		1997-97	230-2163	New Hgt. 3.935 - 3.939; Min. Hgt. - 3.932

2254cc, (2.3L), SOHC, GAS, FI, 16 Valve, F23A1 ACU-F23A1 **12**
1998-99 L4 137 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES	
Valve	Int	1998-99	10541	1.339 Head Diameter
	Exh	1998-99	10542	1.142 Head Diameter,Inconel
Keeper	Both	1998-99	121-1060	1 RD Bead Type
Stem Seal	Int	1998-99	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	1998-99	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1998-99	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	1998-99	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
Head Saver Shim		1998-99	230-2163	New Hgt. 3.935 - 3.939; Min. Hgt. - 3.932

2300cc, (2.3L), DOHC, GAS, FI, 16 Valve, K23A1, ""i-VTEC TURBO"" ACU-K23A1 **13**
2007-12 L4 140 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2007-12	13172	1.378 Head Diameter
Keeper	Both	2007-12	121-1060	1 RD Bead Type
Stem Seal	Int	2007-12	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2007-12	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2007-12	140-3136	0.2173 I.D.,1.630 Length,0.4370 O.D.
	Exh	2007-12	140-3137	0.2173 I.D.,1.790 Length,0.4370 O.D.

2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24A2, ""i-VTEC"" ACU-K24A2 **14**
2004-08 L4 144 CID BORE - 87mm/3.42""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2004-05	13172	1.378 Head Diameter
Keeper	Both	2004-08	121-1060	1 RD Bead Type
Stem Seal	Int	2004-08	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2004-08	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2004-08	140-3136	0.2173 I.D.,1.630 Length,0.4370 O.D.
	Exh	2004-08	140-3137	0.2173 I.D.,1.790 Length,0.4370 O.D.

ACURA / PASSENGER CAR OR TRUCK (Cont'd)

15 2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Z3, ""i-VTEC"" ACU-K24Z3
 2009-14 L4 144 CID BORE - 87mm/3.43""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2009-14 121-1060	1 RD Bead Type
Stem Seal	Int	2009-14 122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2009-14 122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2009-14 140-3136	0.2173 I.D.,1.630 Length,0.4370 O.D.
	Exh	2009-14 140-3137	0.2173 I.D.,1.790 Length,0.4370 O.D.

16 2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Z7, ""i-VTEC"" ACU-K24Z7
 2013-15 L4 144 CID BORE - 87mm/3.42""

PART	YEARS	PART NO.	NOTES
Valve	Int	2013-15 13358	1.417 Head Diameter
	Exh	2013-15 13359	1.220 Head Diameter,Inconel
Keeper	Both	2013-15 121-1060	1 RD Bead Type
Stem Seal	Int	2013-15 122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2013-15 122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2013-15 140-3136	0.2173 I.D.,1.630 Length,0.4370 O.D.
	Exh	2013-15 140-3137	0.2173 I.D.,1.790 Length,0.4370 O.D.

17 2356cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24V7, ""i-VTEC"" ACU-K24V7
 2016-20 L4 144 CID BORE - 87mm/3.43""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2016-20 121-1060	1 RD Bead Type
Stem Seal	Int	2016-20 122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2016-20 122-1202	Positive Type,Viton Material,Metal Clad Style

18 2356cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24W7, ""i-VTEC"" ACU-K24W7
 2015-20 L4 144 CID BORE - 87mm/3.43""

PART	YEARS	PART NO.	NOTES
Valve	Int	2015-20 13336	1.417 Head Diameter
	Exh	2015-19 10779	1.181 Head Diameter
Keeper	Both	2015-20 121-1060	1 RD Bead Type
Stem Seal	Int	2015-20 122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2015-20 122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2015-20 140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
		2015-20 140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring

19 2451cc, (2.5L), SOHC, GAS, FI, 20 Valve, G25A1 ACU-G25A1
 1992-94 L5 150 CID BORE - 85mm/3.35""

PART	YEARS	PART NO.	NOTES
Valve	Int	1992-94 10197A	1.339 Head Diameter,Nitride
	Exh	1992-94 10546	1.142 Head Diameter
Keeper	Int	1992-94 121-1060	1 RD Bead Type
Stem Seal	Int	1992-94 122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	1992-94 122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1992-94 140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	1992-94 140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

20 2451cc, (2.5L), SOHC, GAS, FI, 20 Valve, G25A4 ACU-G25A4
 1995-98 L5 150 CID BORE - 85mm/3.35""

PART	YEARS	PART NO.	NOTES
Valve	Int	1995-98 10197A	1.339 Head Diameter,Nitride
	Exh	1995-98 10546	1.142 Head Diameter

(Cont'd) **ACURA / PASSENGER CAR OR TRUCK**

2451cc, (2.5L), SOHC, GAS, FI, 20 Valve, G25A4
1995-98 L5 150 CID

ACU-G25A4 20
BORE - 85mm/3.35"" (cont.)

PART	YEARS	PART NO.	NOTES
Keeper	Int 1995-98	121-1060	1 RD Bead Type
Stem Seal	Both 1995-98	122-1201	Positive Type,Viton Material,Metal Clad Style
Guide	Int 1995-98	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh 1995-98	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

2494cc, (2.5L), SOHC, GAS, FI, 24 Valve, C25A1
1986-87 V6 152 CID

ACU-C25A1 21
BORE - 84mm/3.31""

PART	YEARS	PART NO.	NOTES
Valve	Int 1986-87	10195	1.299 Head Diameter
	Exh 1986-87	10123	1.084 Head Diameter,4.204 Overall Length
Keeper	Both 1986-87	121-1054	1 RD Bead Type
Stem Seal	Int 1986-87	122-1136	Positive Type,Viton Material,Ring & Spring Style
	Exh 1986-87	122-1152	Positive Type,Viton Material,Metal Clad Style

2675cc, (2.7L), SOHC, GAS, FI, 24 Valve, C27A1
1987-90 V6 163 CID

ACU-C27A1 22
BORE - 87mm/3.42""

PART	YEARS	PART NO.	NOTES
Valve	Int 1987-90	10195	1.299 Head Diameter
	Exh 1987-90	10123	1.084 Head Diameter,4.204 Overall Length
Keeper	Both 1987-90	121-1054	1 RD Bead Type
Stem Seal	Int 1987-90	122-1136	Positive Type,Viton Material,Ring & Spring Style
	Exh 1987-90	122-1152	Positive Type,Viton Material,Metal Clad Style

2977cc, (3.0L), DOHC, GAS, FI, 24 Valve, C30A1, ""VTEC""
1991-05 V6 182 CID

ACU-C30A1 23
BORE - 90mm/3.54""

PART	YEARS	PART NO.	NOTES
Stem Seal	Int 1991-05	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 1991-05	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int 1991-05	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh 1991-05	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

2997cc, (3.0L), SOHC, GAS, FI, 24 Valve, J30A1, ""VTEC""
1997-99 V6 183 CID

ACU-J30A1 24
BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES
Valve	Int 1997-99	10541	1.339 Head Diameter
	Exh 1997-99	10542	1.142 Head Diameter,Inconel
Stem Seal	Int 1997-99	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 1997-99	122-1202	Positive Type,Viton Material,Metal Clad Style
Head Saver Shim	1997-99	230-2170	New Hgt. - 4.762 - 4.766; Min. Hgt. - N/A

2997cc, (3.0L), SOHC, ELECTRIC/GAS, FI, 24 Valve, JNA2, ""i-VTEC Hybrid""

ACU-JNA2 25
BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES
Valve	Int 2017-20	13336	1.417 Head Diameter
	Exh 2017-20	10779	1.181 Head Diameter
Keeper	Both 2017-20	121-1060	1 RD Bead Type
Stem Seal	Int 2017-20	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 2017-20	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2017-20	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh 2017-20	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

ACURA / PASSENGER CAR OR TRUCK (Cont'd)

26 3165cc, (3.2L), SOHC, GAS, FI, 24 Valve, Vin V, 6VD1 ""Isuzu"" ACU-6VD1
 1996-97 V6 193 CID BORE - 93.4mm/3.68""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1996-97	SB1437-67	1 ⁷ / ₁₆ O.D., 1.180T I.D., 0.2550 Depth
Valve	Int	1996-97	10502	1.339 Head Diameter
	Exh	1996-97	10503	1.181 Head Diameter
Keeper	Both	1996-97	121-1074	1 RD Bead Type
Stem Seal	Both	1996-97	122-1147	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1996-97	140-8255	0.2345 I.D., 1.775 Length, 0.4355 O.D., I.D. Must Be Reamed To Size
Spring	Both	1996-97	160-1372	1.970 Length
Head Saver Shim		1996-97	230-2094	New Hgt. - 4.126, 2 Required

27 3206cc, (3.2L), SOHC, GAS, FI, 24 Valve, C32A1 ACU-C32A1
 1991-95 V6 196 CID BORE - 90mm/3.54""

PART	YEARS	PART NO.	NOTES	
Valve	Int	1991-95	10436	1.299 Head Diameter
	Exh	1991-95	10437	1.104 Head Diameter, To Eng. 1310929
Keeper	Both	1991-95	121-1060	1 RD Bead Type
Stem Seal	Int	1991-95	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	1991-95	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1991-95	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring
	Exh	1991-95	140-8157	0.2173 I.D., 2.130 Length, 0.4358 O.D.

28 3206cc, (3.2L), SOHC, GAS, FI, 24 Valve, C32A1 ""GS Models"" ACU-C32A1
 1994-95 V6 196 CID BORE - 90mm/3.54""

PART	YEARS	PART NO.	NOTES	
Valve	Exh	1994-95	10437	1.104 Head Diameter
Keeper	Both	1994-95	121-1060	1 RD Bead Type
Stem Seal	Int	1994-95	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	1994-95	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1994-95	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring
	Exh	1994-95	140-8157	0.2173 I.D., 2.130 Length, 0.4358 O.D.

29 3206cc, (3.2L), SOHC, GAS, FI, 24 Valve, C32A6 ACU-C32A6
 1996-98 V6 196 CID BORE - 88.9mm/3.50""

PART	YEARS	PART NO.	NOTES	
Valve	Int	1996-98	10436	1.299 Head Diameter
	Exh	1996-98	10437	1.104 Head Diameter
Keeper	Both	1996-98	121-1060	1 RD Bead Type
Stem Seal	Int	1996-98	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	1996-98	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1996-98	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring
	Exh	1996-98	140-8157	0.2173 I.D., 2.130 Length, 0.4358 O.D.

30 3210cc, (3.2L), SOHC, GAS, FI, 24 Valve, J32A1, ""VTEC"" ACU-J32A1
 1999-03 V6 196 CID BORE - 88.9mm/3.50""

PART	YEARS	PART NO.	NOTES	
Valve	Int	1999-99	10541	1.339 Head Diameter
		2000-03	10778	1.378 Head Diameter
	Exh	1999-99	10542	1.142 Head Diameter, Inconel
		2000-03	10779	1.181 Head Diameter
Keeper	Both	1999-03	121-1060	1 RD Bead Type

(Cont'd) **ACURA / PASSENGER CAR OR TRUCK**

3210cc, (3.2L), SOHC, GAS, FI, 24 Valve, J32A1, ""VTEC"" ACU-J32A1 **30**
1999-03 V6 196 CID BORE - 88.9mm/3.50"" (cont.)

PART	YEARS	PART NO.	NOTES	
Stem Seal	Int	1999-03	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	1999-03	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1999-03	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	1999-03	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
Head Saver Shim		1999-03	230-2171	New Hgt. - 4.762 - 4.766; Min. Hgt. - 4.758

3210cc, (3.2L), SOHC, GAS, FI, 24 Valve, J32A2, ""VTEC"" ACU-J32A2 **31**
2001-03 V6 196 CID BORE - 88.9mm/3.50""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2001-03	10778	1.378 Head Diameter
	Exh	2001-03	10779	1.181 Head Diameter
Keeper	Both	2001-03	121-1060	1 RD Bead Type
Stem Seal	Int	2001-03	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2001-03	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2001-03	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2001-03	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
Head Saver Shim		2001-03	230-2171	New Hgt. - 4.762 - 4.766; Min. Hgt. - 4.758

3210cc, (3.2L), SOHC, GAS, FI, 24 Valve, J32A3, ""VTEC"" ACU-J32A3 **32**
2004-08 V6 196 CID BORE - 88.9mm/3.50""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2004-08	10778	1.378 Head Diameter
	Exh	2004-08	10779	1.181 Head Diameter
Keeper	Both	2004-08	121-1060	1 RD Bead Type
Stem Seal	Int	2004-08	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2004-08	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2004-08	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2004-08	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
Head Saver Shim		2004-08	230-2172	New Hgt. - 4.762 - 4.766; Min. Hgt. - 4.758

3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A3, ""VTEC"" ACU-J35A3 **33**
2001-02 V6 212 CID BORE - 90mm/3.54""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2001-02	10778	1.378 Head Diameter
	Exh	2001-02	10779	1.181 Head Diameter
Keeper	Both	2001-02	121-1060	1 RD Bead Type
Stem Seal	Int	2001-02	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2001-02	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2001-02	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2001-02	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
Head Saver Shim		2001-02	230-2171	New Hgt. - 4.762 - 4.766; Min. Hgt. - 4.758

3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A5, ""VTEC"" ACU-J35A5 **34**
2003-06 V6 212 CID BORE - 90mm/3.54""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2003-06	10778	1.378 Head Diameter
	Exh	2003-06	10779	1.181 Head Diameter
Keeper	Both	2003-06	121-1060	1 RD Bead Type
Stem Seal	Int	2003-06	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2003-06	122-1202	Positive Type,Viton Material,Metal Clad Style

ACURA / PASSENGER CAR OR TRUCK (Cont'd)

34 3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A5, ""VTEC"" ACU-J35A5
 (cont.) 2003-06 V6 212 CID BORE - 90mm/3.54""

PART	YEARS	PART NO.	NOTES	
Guide	Int	2003-06	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2003-06	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
Head Saver Shim		2003-06	230-2172	New Hgt. - 4.762 - 4.766; Min. Hgt. - 4.758

35 3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A8, ""VTEC"" ACU-J35A8
 2005-08 V6 212 CID BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2005-08	121-1060	1 RD Bead Type
Stem Seal	Int	2005-08	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2005-08	122-1202	Positive Type,Viton Material,Metal Clad Style

36 3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Y4, ""VTEC"" ACU-J35Y4
 2014-20 V6 212 CID BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2014-20	13336	1.417 Head Diameter
	Exh	2014-20	10779	1.181 Head Diameter
Keeper	Both	2014-20	121-1060	1 RD Bead Type
Stem Seal	Int	2014-20	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2014-20	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2014-20	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2014-20	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

37 3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Y5, ""VTEC"" ACU-J35Y5
 2014-20 V6 212 CID BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2014-20	13336	1.417 Head Diameter
	Exh	2014-20	10779	1.181 Head Diameter
Keeper	Both	2014-20	121-1060	1 RD Bead Type
Stem Seal	Int	2014-20	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2014-20	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2014-20	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2014-20	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

38 3471cc, (3.5L), DOHC, SOHC, GAS, FI, 24 Valve, J35Y6, ""i-VTEC"" ACU-J35Y6
 2015-20 V6 212 CID BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2015-20	13336	1.417 Head Diameter
	Exh	2015-20	10779	1.181 Head Diameter
Keeper	Both	2015-20	121-1060	1 RD Bead Type
Stem Seal	Int	2015-20	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2015-20	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2015-20	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2015-20	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

39 3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z2, ""i-VTEC"" ACU-J35Z2
 2013-18 V6 212 CID BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2013-18	13336	1.417 Head Diameter
	Exh	2013-18	10779	1.181 Head Diameter
Keeper	Both	2013-18	121-1060	1 RD Bead Type

(Cont'd) **ACURA / PASSENGER CAR OR TRUCK**

3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z2, ""i-VTEC"" ACU-J35Z2 **39**
2013-18 V6 212 CID BORE - 89mm/3.50"" (cont.)

PART	YEARS	PART NO.	NOTES	
Stem Seal	Int	2013-18	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2013-18	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2013-18	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2013-18	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z6, ""VTEC"" ACU-J35Z6 **40**
2009-14 V6 212 CID BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2009-14	13336	1.417 Head Diameter
	Exh	2009-14	10779	1.181 Head Diameter,TL Only
Keeper	Both	2009-14	121-1060	1 RD Bead Type
Stem Seal	Int	2009-14	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2009-14	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2009-14	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2009-14	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

3471cc, (3.5L), SOHC, ELECTRIC/GAS, FI, 24 Valve, JNB1, ""i-VTEC Hybrid"" ACU-JNB1 **41**
2014-20 V6 212 CID BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2014-20	13336	1.417 Head Diameter
	Exh	2014-20	10779	1.181 Head Diameter
Keeper	Both	2014-20	121-1060	1 RD Bead Type
Stem Seal	Int	2014-20	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2014-20	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2014-20	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2014-20	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

3475cc, (3.5L), SOHC, GAS, FI, 24 Valve, C35A1, ""VTEC"" ACU-C35A1 **42**
1996-04 V6 212 CID BORE - 90mm/3.54""

PART	YEARS	PART NO.	NOTES	
Valve	Int	1996-04	10436	1.299 Head Diameter
	Exh	1996-04	10437	1.104 Head Diameter
Keeper	Both	1996-04	121-1060	1 RD Bead Type
Stem Seal	Int	1996-04	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	1996-04	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1996-04	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	1996-04	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

3493cc, (3.5L), DOHC, ELECTRIC/GAS, FI, 24 Valve, JNC1, ""VTEC Hybrid TURBO"" ACU-JNC1 **43**
2017-20 V6 212 CID BORE - 91mm/3.60""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2017-19	121-1060	1 RD Bead Type
Stem Seal	Int	2017-19	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2017-19	122-1202	Positive Type,Viton Material,Metal Clad Style

3494cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin X, 6VE1 ""Isuzu"" ACU-6VE1-DC **44**
1998-99 V6 213 CID BORE - 93.4mm/3.68""

PART	YEARS	PART NO.	NOTES	
Valve	Int	1998-99	10739	1.338 Head Diameter

ACURA / PASSENGER CAR OR TRUCK (Cont'd)

44 3494cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin X, 6VE1 ""Isuzu"" ACU-6VE1-DC
 (cont.) 1998-99 V6 213 CID BORE - 93.4mm/3.68""

PART	YEARS	PART NO.	NOTES	
Valve	Exh	1998-99	10740	1.142 Head Diameter
Keeper	Both	1998-99	121-1074	1 RD Bead Type
Guide	Both	1998-99	140-8255	0.2345 I.D., 1.775 Length, 0.4355 O.D., I.D. Must Be Reamed To Size

45 3664cc, (3.7L), SOHC, GAS, FI, 24 Valve, J37A1, ""VTEC"" ACU-J37A1
 2007-12 V6 224 CID BORE - 90mm/3.54""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2007-12	13336	1.417 Head Diameter
	Exh	2007-12	10779	1.181 Head Diameter
Keeper	Both	2007-12	121-1060	1 RD Bead Type
Stem Seal	Int	2007-12	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	2007-12	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int	2007-12	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring
	Exh	2007-12	140-8157	0.2173 I.D., 2.130 Length, 0.4358 O.D.

46 3664cc, (3.7L), SOHC, GAS, FI, 24 Valve, J37A2, ""VTEC"" ACU-J37A2
 2009-12 V6 224 CID BORE - 90mm/3.54""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2009-12	121-1060	1 RD Bead Type
Stem Seal	Int	2009-12	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	2009-12	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int	2009-12	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring
	Exh	2009-12	140-8157	0.2173 I.D., 2.130 Length, 0.4358 O.D.

47 3664cc, (3.7L), SOHC, GAS, FI, 24 Valve, J37A4, ""VTEC"" ACU-J37A4
 2009-14 V6 224 CID BORE - 90mm/3.54""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2009-14	13336	1.417 Head Diameter
	Exh	2009-14	10779	1.181 Head Diameter
Keeper	Both	2009-14	121-1060	1 RD Bead Type
Stem Seal	Int	2009-14	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	2009-14	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int	2009-14	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring
	Exh	2009-14	140-8157	0.2173 I.D., 2.130 Length, 0.4358 O.D.

48 3664cc, (3.7L), SOHC, GAS, FI, 24 Valve, J37A5, ""VTEC"" ACU-J37A5
 2010-13 V6 224 CID BORE - 90mm/3.54""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2010-13	13336	1.417 Head Diameter
	Exh	2010-13	10779	1.181 Head Diameter
Keeper	Both	2010-13	121-1060	1 RD Bead Type
Stem Seal	Int	2010-13	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	2010-13	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int	2010-13	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring
	Exh	2010-13	140-8157	0.2173 I.D., 2.130 Length, 0.4358 O.D.

ALLIS-CHALMERS / HEAVY DUTY

Engine	Models	Line No.
4 Cylinder		
116 C.I., (1.9L), B, Gas, OHV, 8 Valve	C, CA, RC, B125, 60H	1
116 C.I., (1.9L), 1B, Gas, OHV, 8 Valve	C, CA, RC, B125, 60H	2
125 C.I., (2.1L), B, Gas, OHV, 8 Valve	C, CA, RC, B125, 60H	3
125 C.I., (2.1L), 1B, Gas, OHV, 8 Valve	C, CA, RC, B125, 60H	4
125 C.I., (2.1L), B15, Gas, OHV, 8 Valve	C, CA, RC, B125, 60H	5
125 C.I., (2.1L), B15, Gas, OHV, 8 Valve	C, CA, RC, B125, 60H	6
138 C.I., (2.3L), G138, Gas, OHV, 8 Valve,		7
149 C.I., (2.4L), G149, Gas, OHV, 8 Valve	D10, D12, D14, D15, H3, 66, 72, 90, 10	8
153 C.I., (2.5L), D153/DA153, Diesel, OHV, 8 Valve	WD45D	9
153 C.I., (2.5L), G153, Gas, OHV, 8 Valve	Lift Truck	10
160 C.I., (2.6L), G160, Gas, OHV, 8 Valve		11
175 C.I., (2.9L), D175/DA175, Diesel, OHV, 8 Valve		12
200 C.I., (3.3L), 433T, Diesel, OHV, 8 Valve, ""TURBO""	433T	13
201 C.I., (3.3L), G201, Gas, OHV, 8 Valve	WC, WF, W25, W, WD, D Motor Grader	14
226 C.I., (3.7L), G226, Gas, OHV, 8 Valve	D17, WD45, W226	15
226 C.I., (3.7L), G226, LPG, OHV, 8 Valve		16
236 C.I., (3.9L), 4.236, Diesel, OHV, 8 Valve, ""Perkins""	170, 175	19
248 C.I., (4.2L), 4.248, Diesel, OHV, 8 Valve, ""Perkins""		20
344 C.I., (5.6L), HD344, Diesel, OHV, 8 Valve, ""Buda""		27
344 C.I., (5.6L), 6000, Diesel, OHV, 8 Valve		28
344 C.I., (5.6L), 7000, Diesel, OHV, 8 Valve		29
516 C.I., (8.5L), HD516, Diesel, OHV, 8 Valve, ""Buda""		33
6 Cylinder		
230 C.I., (3.8L), D230/DA230, Diesel, OHV, 12 Valve	WD45D	17
230 C.I., (3.8L), G230, Gas, OHV, 12 Valve	Lift Truck	18
262 C.I., (4.3L), D262, Diesel, OHV, 12 Valve		21
262 C.I., (4.3L), DA262, Diesel, OHV, 12 Valve		22
262 C.I., (4.3L), G262, Gas, OHV, 12 Valve		23
265 C.I., (4.3L), G2500, Gas, OHV, 12 Valve		24
301 C.I., (4.9L), D2800, Diesel, OHV, 12 Valve	649T, 180, 185, 190, 200, 7000, 7020	25
301 C.I., (4.9L), D2900, Diesel, OHV, 12 Valve	649T, 180, 185, 190, 200, 7000, 7020	26
426 C.I., (7.0L), D3400, Diesel, OHV, 12 Valve	670T, 6701, 670HI, 7030, 7040, 7045, 7050, 7060, 7080, 7580	30
426 C.I., (7.0L), D3500, Diesel, OHV, 12 Valve	670T, 6701, 670HI, 7030, 7040, 7045, 7050, 7060, 7080, 7580	31
426 C.I., (7.0L), D3750, Diesel, OHV, 12 Valve		32
516 C.I., (8.5L), 10000, Diesel, OHV, 12 Valve		34
516 C.I., (8.5L), 11000, Diesel, OHV, 12 Valve		35

116 C.I., (1.9L), B, Gas, OHV, 8 Valve **B 3.25** **1**
L4 116 CID **BORE - 82.55mm/3.25""**

PART	PART NO.	NOTES
Valve Seat Insert	Int	1½ O.D., 1¼ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	
Valve	Int	1.438 Head Diameter
	Exh	1.313 Head Diameter, W/ Rotators

ALLIS-CHALMERS / HEAVY DUTY (Cont'd)

1 116 C.I., (1.9L), B, Gas, OHV, 8 Valve B_3.25
 (cont.) L4 116 CID BORE - 82.55mm/3.25"

PART		PART NO.	NOTES
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Both	140-1854	0.3445 I.D., 2.250 Length, 0.5665 O.D.
Spring	Both	160-1220	2.313 Length

2 116 C.I., (1.9L), 1B, Gas, OHV, 8 Valve 1B_3.25
 L4 116 CID BORE - 82.55mm/3.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-1	1½ O.D., 1¼ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-4		1¾ O.D., 1½ I.D., 3/16 Depth
Valve	Int	00155	1.438 Head Diameter
	Exh	00154	1.313 Head Diameter, W/ Rotators
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Both	140-1854	0.3445 I.D., 2.250 Length, 0.5665 O.D.
Spring	Both	160-1220	2.313 Length

3 125 C.I., (2.1L), B, Gas, OHV, 8 Valve B_3.375
 L4 125 CID BORE - 85.725mm/3.375"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-1	1½ O.D., 1¼ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-4		1¾ O.D., 1½ I.D., 3/16 Depth
Valve	Int	00155	1.438 Head Diameter
	Exh	00154	1.313 Head Diameter, W/ Rotators
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Both	140-1854	0.3445 I.D., 2.250 Length, 0.5665 O.D.
Spring	Both	160-1220	2.313 Length

4 125 C.I., (2.1L), 1B, Gas, OHV, 8 Valve 1B_3.375
 L4 125 CID BORE - 85.725mm/3.375"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-1	1½ O.D., 1¼ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-4		1¾ O.D., 1½ I.D., 3/16 Depth
Valve	Int	00155	1.438 Head Diameter
	Exh	00154	1.313 Head Diameter, W/ Rotators
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Both	140-1854	0.3445 I.D., 2.250 Length, 0.5665 O.D.
Spring	Both	160-1220	2.313 Length

5 125 C.I., (2.1L), B15, Gas, OHV, 8 Valve B15_3.25
 L4 125 CID BORE - 82.55mm/3.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-1	1½ O.D., 1¼ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-4		1¾ O.D., 1½ I.D., 3/16 Depth
Valve	Int	00155	1.438 Head Diameter
	Exh	00154	1.313 Head Diameter, W/ Rotators
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Both	140-1854	0.3445 I.D., 2.250 Length, 0.5665 O.D.

(Cont'd) **ALLIS-CHALMERS / HEAVY DUTY**

125 C.I., (2.1L), B15, Gas, OHV, 8 Valve **B15_3.25 5**
L4 125 CID **BORE - 82.55mm/3.25''' (cont.)**

PART		PART NO.	NOTES
Spring	Both	160-1220	2.313 Length

125 C.I., (2.1L), B15, Gas, OHV, 8 Valve **B15_3.375 6**
L4 125 CID **BORE - 85.725mm/3.375'''**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-1	1½ O.D., 1¼ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-4	1¾ O.D., 1½ I.D., 9/16 Depth
Valve	Int	00155	1.438 Head Diameter
	Exh	00154	1.313 Head Diameter, W/ Rotators
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Both	140-1854	0.3445 I.D., 2.250 Length, 0.5665 O.D.
Spring	Both	160-1220	2.313 Length

138 C.I., (2.3L), G138, Gas, OHV, 8 Valve, **G138 7**
L4 138 CID **BORE - 85.725mm/3.346'''**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-1	1½ O.D., 1¼ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, D10 To S/N 3501, D12 To S/N 3001
	Exh	SB1375-4	1¾ O.D., 1½ I.D., 9/16 Depth, D10 To S/N 3501, D12 To S/N 3001
Valve	Int	00155	1.438 Head Diameter
	Exh	00154	1.313 Head Diameter, W/ Rotators
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Both	140-1854	0.3445 I.D., 2.250 Length, 0.5665 O.D.
Spring	Both	160-1220	2.313 Length, D10 To S/N 3501, D12 To S/N 3001

149 C.I., (2.4L), G149, Gas, OHV, 8 Valve **G149 8**
L4 149 CID **BORE - 88.9mm/3.40'''**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-1	1½ O.D., 1¼ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, D10 From S/N 3501, D12 From S/N 3001, D14, D15 To S/N 9001, H3, 66, 72, 90, 10
Valve	Int	00155	1.438 Head Diameter
	Exh	00154	1.313 Head Diameter, W/ Rotators
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Both	140-1854	0.3445 I.D., 2.250 Length, 0.5665 O.D.

153 C.I., (2.5L), D153/DA153, Diesel, OHV, 8 Valve **D153 9**
L4 153 CID **BORE - 87.3mm/3.40'''**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-3	1½ O.D., 1¼ I.D., ¼ Depth, +3 O/S Available
	Exh	SB1437-2	17/16 O.D., 17/32 I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Int	140-1852	0.3130 I.D., 2.656 Length, 0.5640 O.D.
	Exh	140-1851	0.3130 I.D., 2.250 Length, 0.5640 O.D.

ALLIS-CHALMERS / HEAVY DUTY (Cont'd)

10 153 C.I., (2.5L), G153, Gas, OHV, 8 Valve
L4 153 CID

G153
BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-2N	1 ⁷ / ₁₆ O.D., 1 ⁷ / ₃₂ I.D., ⁷ / ₃₂ Depth
Valve	Int	01073	1.438 Head Diameter
	Exh	00989	1.375 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Int	140-1943	0.3445 I.D., 2.250 Length, 0.5640 O.D.
	Exh	140-1944	0.3445 I.D., 2.125 Length, 0.5640 O.D.

11 160 C.I., (2.6L), G160, Gas, OHV, 8 Valve
L4 160 CID

G160
BORE - 92.075mm/3.625"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-1	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-4	1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., ³ / ₁₆ Depth
Valve	Int	00155	1.438 Head Diameter
	Exh	00154	1.313 Head Diameter, W/ Rotators
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Both	140-1854	0.3445 I.D., 2.250 Length, 0.5665 O.D.

12 175 C.I., (2.9L), D175/DA175, Diesel, OHV, 8 Valve
L4 175 CID

D175
BORE - 90.5mm/3.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-3	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., ¹ / ₄ Depth, +3 O/S Available, W/ 1.375 Valve Head Dia., To S/N 11950
		SB1562-4	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ¹ / ₄ Depth, +10 O/S Available, W/ 1.480 Valve Head Dia., From S/N D05033
		SB1562-5	1 ⁹ / ₁₆ O.D., 1 ³ / ₈ I.D., ¹ / ₄ Depth, W/ 1.546 Valve Head Dia., From S/N 119505 To D05033
	Exh	SB1375-1N	1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, W/ 1.250 Valve Head Dia, From S/N D05033
		SB1437-2N	1 ⁷ / ₁₆ O.D., 1 ⁷ / ₃₂ I.D., ⁷ / ₃₂ Depth, W/ 1.376 Valve Head Dia. To S/N D05033
Valve	Int	01042	1.480 Head Diameter, HD3 From S/N D05033
	Exh	01041	1.250 Head Diameter, HD3 From S/N D05033
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Int	140-1852	0.3130 I.D., 2.656 Length, 0.5640 O.D.
	Exh	140-1851	0.3130 I.D., 2.250 Length, 0.5640 O.D.

13 200 C.I., (3.3L), 433T, Diesel, OHV, 8 Valve, ""TURBO""
L4 200 CID

433T
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1609E-1	1.609 O.D., 1.400 I.D., ¹ / ₄ Depth
	Exh	SB1486E-1	1.486 O.D., 1.270 I.D., 0.2910 Depth
Valve	Int	01524	1.620 Head Diameter, 30 Degree Late Style, Replaces 45 Degree Early Style
	Exh	01523S	1.444 Head Diameter, Stellite Face, 30 Degree Late Style, Replaces 45 Degree Early Style
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Exh	140-7813	0.3740 I.D., 2.880 Length, 0.6263 O.D., Both Ends Undercut, New Style
	Both	140-6730	0.3739 I.D., 2.880 Length, 0.6263 O.D., Old Style, One End Undercut, +2 O/S Available
Spring	Both	160-1219	2.760 Length

(Cont'd) ALLIS-CHALMERS / HEAVY DUTY**201 C.I., (3.3L), G201, Gas, OHV, 8 Valve**
L4 201 CID**G201 14**
BORE - 101.6mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-1	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{1}{4}$ Depth, +10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh	SB1562-4+010	1.577 O.D., 1 $\frac{5}{16}$ I.D., $\frac{1}{4}$ Depth
Valve	Int	00169 00626	1.688 Head Diameter, W/ Narrow Grooves; Groove Width 0.100 1.688 Head Diameter, 30 Degree
	Exh	00168	1.500 Head Diameter, W/ Narrow Grooves; Groove Width 0.100
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1031	Positive Type, Poly Material, 2-Ring Style
Guide	Int	140-1421	0.3750 I.D., 2.750 Length, 0.6895 O.D.
	Exh	140-1853	0.3750 I.D., 2.344 Length, 0.6890 O.D.
Spring	Both	160-1220	2.313 Length

226 C.I., (3.7L), G226, Gas, OHV, 8 Valve
L4 226 CID**G226G 15**
BORE - 101.6mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-1	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{1}{4}$ Depth, +10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh	SB1562-4+010	1.577 O.D., 1 $\frac{5}{16}$ I.D., $\frac{1}{4}$ Depth, D17, D Motor Grader From S/N 5424
Valve	Int	00169 00626	1.688 Head Diameter, WD45 & W226 Only 1.688 Head Diameter, 30 Degree
	Exh	00168	1.500 Head Diameter
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Int	122-1031	Positive Type, Poly Material, 2-Ring Style
Guide	Int	140-1421	0.3750 I.D., 2.750 Length, 0.6895 O.D.
	Exh	140-1853	0.3750 I.D., 2.344 Length, 0.6890 O.D.
Spring	Both	160-1220	2.313 Length

226 C.I., (3.7L), G226, LPG, OHV, 8 Valve
L4 226 CID**G226LP 16**
BORE - 101.6mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-1	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{1}{4}$ Depth, +10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh	SB1562-4+010	1.577 O.D., 1 $\frac{5}{16}$ I.D., $\frac{1}{4}$ Depth, D17, D Motor Grader From S/N 5424
Valve	Int	00169 00626	1.688 Head Diameter, WD45 & W226 Only 1.688 Head Diameter, 30 Degree
	Exh	00168	1.500 Head Diameter
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Int	122-1031	Positive Type, Poly Material, 2-Ring Style
Guide	Int	140-1421	0.3750 I.D., 2.750 Length, 0.6895 O.D.
	Exh	140-1853	0.3750 I.D., 2.344 Length, 0.6890 O.D.
Spring	Exh	160-1220	2.313 Length

230 C.I., (3.8L), D230/DA230, Diesel, OHV, 12 Valve
L6 230 CID**D230 17**
BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-3	1 $\frac{1}{2}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{1}{4}$ Depth, +3 O/S Available
	Exh	SB1437-2	1 $\frac{7}{16}$ O.D., 1 $\frac{7}{32}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Int	140-1852	0.3130 I.D., 2.656 Length, 0.5640 O.D.

ALLIS-CHALMERS / HEAVY DUTY (Cont'd)

17 230 C.I., (3.8L), D230/DA230, Diesel, OHV, 12 Valve D230
 (cont.) L6 230 CID BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Guide	Exh	140-1851	0.3130 I.D.,2.250 Length,0.5640 O.D.

18 230 C.I., (3.8L), G230, Gas, OHV, 12 Valve G230
 L6 230 CID BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-2N	1 ⁷ / ₁₆ O.D.,1 ⁷ / ₃₂ I.D., ⁷ / ₃₂ Depth
Valve	Int	01073	1.438 Head Diameter
	Exh	00989	1.375 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Int	140-1943	0.3445 I.D.,2.250 Length,0.5640 O.D.
	Exh	140-1944	0.3445 I.D.,2.125 Length,0.5640 O.D.

19 236 C.I., (3.9L), 4.236, Diesel, OHV, 8 Valve, ""Perkins"" 4.236P
 L4 236 CID BORE - 98.476mm/3.877"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1 ⁷ / ₈ O.D.,1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB2020E-1	2.020 O.D.,1.589 I.D.,0.2825 Depth,OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1562-6N	1 ⁹ / ₁₆ O.D.,1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-3	1.681 O.D.,1.251ST I.D., ³ / ₈ Depth,NOTE: Stepped I.D.,OEM# 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat
		SB1690E-1	1.690 O.D.,1.251ST I.D., ³ / ₈ Depth,NOTE: Stepped I.D.,OEM# 33152154, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	01783	1.741 Head Diameter,OEM # 31431315
	Exh	00882A	1.440 Head Diameter,OEM # 3142A052, 31431104, 31431109, 31431881
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108
Stem Seal	Both	122-1015	Positive Type,Tef/Rub Material,1-Ring Style,Machine Guide To 0.562 O.D.
		122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002
Spring	Both	160-1291	2.578 Length,Outer, OEM # 31745121
		160-1301	2.000 Length,Inner, OEM # 31744131
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

20 248 C.I., (4.2L), 4.248, Diesel, OHV, 8 Valve, ""Perkins"" 4.248P
 L4 248 CID BORE - 100.965mm/3.975"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1 ⁷ / ₈ O.D.,1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB2020E-1	2.020 O.D.,1.589 I.D.,0.2825 Depth,OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1562-6N	1 ⁹ / ₁₆ O.D.,1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-3	1.681 O.D.,1.251ST I.D., ³ / ₈ Depth,NOTE: Stepped I.D.,OEM# 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat
		SB1690E-1	1.690 O.D.,1.251ST I.D., ³ / ₈ Depth,NOTE: Stepped I.D.,OEM# 33152154, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	01783	1.741 Head Diameter,OEM # 31431315
	Exh	00882A	1.440 Head Diameter,OEM # 3142A052, 31431104, 31431109, 31431881

(Cont'd) ALLIS-CHALMERS / HEAVY DUTY**248 C.I., (4.2L), 4.248, Diesel, OHV, 8 Valve, ""Perkins""****4.248P 20**

L4 248 CID

BORE - 100.965mm/3.975"" (cont.)

PART		PART NO.	NOTES
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108
Stem Seal	Both	122-1015	Positive Type,Tef/Rub Material,1-Ring Style,Machine Guide To 0.562 O.D.
		122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002
Spring	Both	160-1291	2.578 Length,Outer, OEM # 31745121
		160-1301	2.000 Length,Inner, OEM # 31744131
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

262 C.I., (4.3L), D262, Diesel, OHV, 12 Valve**D262 21**

L6 262 CID

BORE - 90.5mm/3.563""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-3	1½ O.D.,1¼ I.D.,¼ Depth,+3 O/S Available,To S/N 119938
		SB1562-4	1⅞ O.D.,1⅝ I.D.,¼ Depth,+10 O/S Available,W/ 1.480 Valve Head Dia., From S/N 01681
		SB1562-5	1⅞ O.D.,1⅝ I.D.,¼ Depth,W/ 1.546 Valve Head Dia., From S/N 119938 To S/N 01681
	Exh	SB1375-1N	1⅞ O.D.,1⅝ I.D.,⅞ Depth,W/ 1.250 Valve Head Dia., From S/N 01681
		SB1437-2N	1⅞ O.D.,1⅞ I.D.,⅞ Depth,W/ 1.376 Valve Head Dia. To S/N 01681
Valve	Int	01042	1.480 Head Diameter,From S/N 01681
	Exh	01041	1.250 Head Diameter,From S/N 01681
Keeper	Both	121-1011	1 SQ Bead Type
	Guide	Int	140-1852	0.3130 I.D.,2.656 Length,0.5640 O.D.
Exh		140-1851	0.3130 I.D.,2.250 Length,0.5640 O.D.

262 C.I., (4.3L), DA262, Diesel, OHV, 12 Valve**DA262 22**

L6 262 CID

BORE - 90.5mm/3.563""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-3	1½ O.D.,1¼ I.D.,¼ Depth,+3 O/S Available,W/ 1.375 Valve Head Dia., To S/N 119938
		SB1562-4	1⅞ O.D.,1⅝ I.D.,¼ Depth,+10 O/S Available,W/ 1.480 Valve Head Dia., From S/N 01681
		SB1562-5	1⅞ O.D.,1⅝ I.D.,¼ Depth,W/ 1.546 Valve Head Dia., From S/N 119938 To S/N 01681
	Exh	SB1375-1N	1⅞ O.D.,1⅝ I.D.,⅞ Depth,W/ 1.250 Valve Head Dia., From S/N 01681
		SB1437-2N	1⅞ O.D.,1⅞ I.D.,⅞ Depth,W/ 1.376 Valve Head Dia. From S/N 119938 To S/N 01681
Valve	Int	01042	1.480 Head Diameter,From S/N 01681
	Exh	01041	1.250 Head Diameter,From S/N 01681
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Int	140-1852	0.3130 I.D.,2.656 Length,0.5640 O.D.
	Exh	140-1851	0.3130 I.D.,2.250 Length,0.5640 O.D.

262 C.I., (4.3L), G262, Gas, OHV, 12 Valve**G262 23**

L6 262 CID

BORE - 90.5mm/3.563""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-1	1⅞ O.D.,1⅝ I.D.,⅞ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-2	1⅞ O.D.,1⅞ I.D.,⅞ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Exh	00989	1.375 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type

ALLIS-CHALMERS / HEAVY DUTY (Cont'd)

23 262 C.I., (4.3L), G262, Gas, OHV, 12 Valve G262
 (cont.) L6 262 CID BORE - 90.5mm/3.563"

PART		PART NO.	NOTES
Guide	Int	140-1943	0.3445 I.D.,2.250 Length,0.5640 O.D.
	Exh	140-1944	0.3445 I.D.,2.125 Length,0.5640 O.D.

24 265 C.I., (4.3L), G2500, Gas, OHV, 12 Valve G2500
 L6 265 CID BORE - 95.25mm/3.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1609E-1	1.609 O.D.,1.400 I.D.,¼ Depth
	Exh	SB1486E-1	1.486 O.D.,1.270 I.D.,0.2910 Depth
Valve	Int	01524	1.620 Head Diameter
	Exh	01523S	1.444 Head Diameter,Stellite Face
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-6730	0.3739 I.D.,2.880 Length,0.6263 O.D.,Old Style, One End Undercut, +2 O/S Available
		140-7813	0.3740 I.D.,2.880 Length,0.6263 O.D.,Both Ends Undercut, New Style
Spring	Both	160-1219	2.760 Length

25 301 C.I., (4.9L), D2800, Diesel, OHV, 12 Valve D2800
 L6 301 CID BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1609E-1	1.609 O.D.,1.400 I.D.,¼ Depth
	Exh	SB1486E-1	1.486 O.D.,1.270 I.D.,0.2910 Depth
Valve	Int	01524	1.620 Head Diameter,30 Degree Late Style, Replaces 45 Degree Early Style
	Exh	01523S	1.444 Head Diameter,Stellite Face,30 Degree Late Style, Replaces 45 Degree Early Style
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-6730	0.3739 I.D.,2.880 Length,0.6263 O.D.,Old Style, One End Undercut, +2 O/S Available
		140-7813	0.3740 I.D.,2.880 Length,0.6263 O.D.,Both Ends Undercut, New Style
Spring	Both	160-1219	2.760 Length

26 301 C.I., (4.9L), D2900, Diesel, OHV, 12 Valve D2900
 L6 301 CID BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1609E-1	1.609 O.D.,1.400 I.D.,¼ Depth
	Exh	SB1486E-1	1.486 O.D.,1.270 I.D.,0.2910 Depth
Valve	Int	01524	1.620 Head Diameter,30 Degree Late Style, Replaces 45 Degree Early Style
	Exh	01523S	1.444 Head Diameter,Stellite Face,30 Degree Late Style, Replaces 45 Degree Early Style
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-6730	0.3739 I.D.,2.880 Length,0.6263 O.D.,Old Style, One End Undercut, +2 O/S Available
		140-7813	0.3740 I.D.,2.880 Length,0.6263 O.D.,Both Ends Undercut, New Style
Spring	Both	160-1219	2.760 Length

27 344 C.I., (5.6L), HD344, Diesel, OHV, 8 Valve, ""Buda"" HD344
 L4 344 CID BORE - 112.6mm/4.40"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1687-7	1 ¹¹ / ₁₆ O.D.,1 ¹ / ₈ I.D.,¼ Depth,+5 O/S Available

(Cont'd) **ALLIS-CHALMERS / HEAVY DUTY**

344 C.I., (5.6L), 6000, Diesel, OHV, 8 Valve 6000 **28**
L4 344 CID BORE - 112.6mm/4.40"

PART		PART NO.		NOTES
Valve Seat Insert	Int	SB1875-11	1 $\frac{7}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{5}{16}$ Depth, Early, 1960-66	
	Exh	SB1687-8	1 $\frac{11}{16}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{5}{16}$ Depth, Early, 1960-66	
Guide	Both	140-5745	0.3730 I.D., 3.500 Length, 0.6265 O.D.	

344 C.I., (5.6L), 7000, Diesel, OHV, 8 Valve 7000 **29**
L4 344 CID BORE - 112.6mm/4.40"

PART		PART NO.		NOTES
Valve Seat Insert	Int	SB1875-11	1 $\frac{7}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{5}{16}$ Depth, Early, 1960-66	
	Exh	SB1687-8	1 $\frac{11}{16}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{5}{16}$ Depth, Early, 1960-66	
Guide	Both	140-5745	0.3730 I.D., 3.500 Length, 0.6265 O.D.	

426 C.I., (7.0L), D3400, Diesel, OHV, 12 Valve D3400 **30**
L6 426 CID BORE - 107.95mm/4.250"

PART		PART NO.		NOTES
Valve Seat Insert	Int	SB1814E-1	1.814 O.D., 1.600 I.D., 0.3150 Depth	
	Exh	SB1670E-1	1.670 O.D., 1.420 I.D., 0.3020 Depth	
Valve	Int	01526	1.839 Head Diameter	
	Exh	01525S	1.651 Head Diameter, Stellite Face	
Keeper	Both	121-1007	1 SQ Bead Type	
Stem Seal	Both	122-1017	Positive Type, Tef/Rub Material, 1-Ring Style	
Guide	Both	140-6730	0.3739 I.D., 2.880 Length, 0.6263 O.D., Old Style, One End Undercut, +2 O/S Available	
		140-7813	0.3740 I.D., 2.880 Length, 0.6263 O.D., Both Ends Undercut, New Style	
Spring	Both	160-1219	2.760 Length	

426 C.I., (7.0L), D3500, Diesel, OHV, 12 Valve D3500 **31**
L6 426 CID BORE - 107.95mm/4.250"

PART		PART NO.		NOTES
Valve Seat Insert	Int	SB1814E-1	1.814 O.D., 1.600 I.D., 0.3150 Depth	
	Exh	SB1670E-1	1.670 O.D., 1.420 I.D., 0.3020 Depth	
Valve	Int	01526	1.839 Head Diameter, 30 Degree	
	Exh	01525S	1.651 Head Diameter, Stellite Face, 30 Degree	
Keeper	Both	121-1007	1 SQ Bead Type	
Stem Seal	Both	122-1017	Positive Type, Tef/Rub Material, 1-Ring Style	
Guide	Both	140-6730	0.3739 I.D., 2.880 Length, 0.6263 O.D., Old Style, One End Undercut, +2 O/S Available	
		140-7813	0.3740 I.D., 2.880 Length, 0.6263 O.D., Both Ends Undercut, New Style	
Spring	Both	160-1219	2.760 Length	

426 C.I., (7.0L), D3750, Diesel, OHV, 12 Valve D3750 **32**
L6 426 CID BORE - 107.9mm/4.248"

PART		PART NO.		NOTES
Valve Seat Insert	Int	SB1814E-1	1.814 O.D., 1.600 I.D., 0.3150 Depth	
	Exh	SB1670E-1	1.670 O.D., 1.420 I.D., 0.3020 Depth	

516 C.I., (8.5L), HD516, Diesel, OHV, 8 Valve, ""Buda"" HD516 **33**
L4 516 CID BORE - 112.6mm/4.433"

PART		PART NO.		NOTES
Valve Seat Insert	Int	SB2187-13	2 $\frac{3}{16}$ O.D., 1 $\frac{11}{16}$ I.D., $\frac{9}{32}$ Depth	
	Exh	SB1687-7	1 $\frac{11}{16}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{1}{4}$ Depth, +5 O/S Available	

ALLIS-CHALMERS / HEAVY DUTY (Cont'd)

34 516 C.I., (8.5L), 10000, Diesel, OHV, 12 Valve 10000
 L6 516 CID BORE - 112.6mm/4.433"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1875-11	1 ⁷ / ₈ O.D., 1 ⁹ / ₁₆ I.D., ⁵ / ₁₆ Depth, Early, 1960-66
	Exh SB1687-8	1 ¹¹ / ₁₆ O.D., 1 ³ / ₈ I.D., ⁵ / ₁₆ Depth, Early, 1960-66
Guide	Both 140-5745	0.3730 I.D., 3.500 Length, 0.6265 O.D.

35 516 C.I., (8.5L), 11000, Diesel, OHV, 12 Valve 11000
 L6 516 CID BORE - 112.6mm/4.433"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1875-11	1 ⁷ / ₈ O.D., 1 ⁹ / ₁₆ I.D., ⁵ / ₁₆ Depth, Early, 1960-66
	Exh SB1687-8	1 ¹¹ / ₁₆ O.D., 1 ³ / ₈ I.D., ⁵ / ₁₆ Depth, Early, 1960-66

AUDI / PASSENGER CAR

Engine	Models	Line No.
4 Cylinder		
1471cc, (1.5L), SOHC, GAS, CARB, 8 Valve, XZ (1973-74)	Fox	1
1588cc, (1.6L), SOHC, GAS, FI, 8 Valve, YG, YH, YK (1975-80)	4000, Fox	2
1588cc, (1.6L), SOHC, DIESEL, FI, 8 Valve, Vin G, CR, JK (1982-83)	4000	3
1588cc, (1.6L), SOHC, DIESEL, FI, 8 Valve, Turbo, Vin H, CY, "TURBO" (1982-83)	4000	4
1715cc, (1.7L), SOHC, GAS, FI, 8 Valve, Vin A, WT (1981-83)	4000	5
1760cc, (1.8L), OHV, GAS, CARB, 8 Valve, ZT, ZY (1970-71)	100 Series, Super 90	6
1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin A, B, C, JN, MG (1984-87)	4000	7
1781cc, (1.8L), DOHC, GAS, FI, 20 Valve, Vin C, S, T, X, AEB, AMB, AMU, ATC, ATW, AWM, AWP, BEA, "TURBO" (1997-06)	A4, A4 Quattro, TT, TT Quattro	8
1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, CNSB, "TURBO" (2015-16)	A3	9
1872cc, (1.9L), OHV, GAS, CARB, 8 Valve, XT, XU, ZG, ZH, ZK, ZL, ZW (1972-74)	100 Series	10
1872cc, (1.9L), OHV, GAS, FI, 8 Valve, YA, YB, YC, YD (1975-77)	100 Series	11
1968cc, (2.0L), DOHC, DIESEL, FI, 16 Valve, CBEA, "TDI TURBO" (2010-13)	A3	12
1968cc, (2.0L), DOHC, DIESEL, FI, 16 Valve, CRUA, "TDI TURBO" (2015-15)	A3	13
1983cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin A, B, 3A (1988-90)	80, 90	14
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F, BPG, BPY, BWT, "TURBO" (2005-09)	A3, A4, A4 Quattro, TT	15
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CAEB, "TURBO" (2009-13)	A4, A4 allroad, A4 Quattro, A5, A5 Quattro, A6, A6 Quattro, Q5	16
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CAED, "TURBO" (2014-17)	A4, A4 Quattro, A5, A5 Quattro, A6, A6 Quattro	17
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CBFA, "TURBO" (2008-13)	A3, A3 Quattro	18
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CCTA, "TURBO" (2008-18)	A3, A3 Quattro, Q3, Q3 Quattro, TT, TT Quattro	19

(Cont'd) AUDI / PASSENGER CAR

Engine	Models	Line No.
4 Cylinder		
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CDMA, ""TURBO"" (2009-15)	TT Quattro, TTS Quattro	20
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CETA, ""TURBO"" (2011-15)	TT Quattro	21
1984cc, (2.0L), DOHC, ELECTRIC/GAS, FI, 16 Valve, CHJA, ""Hybrid TURBO"" (2013-16)	Q5	22
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CNTC, ""TURBO"" (2015-18)	A3 Quattro, TT Quattro	23
1984cc, (2.0L), DOHC, FLEX, FI, 16 Valve, CPMA, ""TURBO"" (2013-13)	A4 allroad, A4 Quattro, A5 Quattro, allroad, Q5	24
1984cc, (2.0L), DOHC, FLEX, FI, 16 Valve, CPMB, ""TURBO"" (2014-16)	A4 allroad, A4 Quattro, A5 Quattro, allroad, Q5	25
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CYFB, ""TURBO"" (2015-18)	S3, TTS Quattro	26
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CYMC, ""TURBO"" (2017-20)	A4, A4 allroad, A4 Quattro, A5 Quattro, A5 Sportback, Q7	27
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CYNB, ""TURBO"" (2016-18)	A6, A6 Quattro	28
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CZRA, ""TURBO"" (2017-20)	A3	29
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, DAYB, ""TURBO"" (2018-18)	Q5	30
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, DBPA, ""TURBO"" (2017-20)	A4	31
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, DHHA, ""TURBO"" (2019-21)	A3 Quattro, Q3, TT Quattro	32
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, DJJA, ""TURBO"" (2018-18)	S3	33
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, DLRA, ""TURBO"" (2019-21)	S3, TTS Quattro	34
5 Cylinder		
1986cc, (2.0L), SOHC, DIESEL, FI, 10 Valve, Vin G, CN (1979-81)	5000	35
1986cc, (2.0L), SOHC, DIESEL, FI, 10 Valve, Vin H, DE, ""TURBO"" (1982-84)	5000	36
2144cc, (2.2L), SOHC, GAS, FI, 10 Valve, Vin A, B, WD, WE, WU (1978-84)	4000, 5000, Coupe	37
2144cc, (2.2L), SOHC, GAS, FI, 10 Valve, Vin C, KH, WK, ""TURBO"" (1980-85)	5000	38
2226cc, (2.2L), SOHC, GAS, FI, 10 Valve, Vin B, JT, KZ (1984-87)	4000 Quattro, 5000	39
2226cc, (2.2L), SOHC, GAS, FI, 10 Valve, Vin C, D, E, MC, ""TURBO"" (1986-91)	200, 200 Quattro, 5000, 5000 Quattro	40
2226cc, (2.2L), DOHC, GAS, FI, 20 Valve, Vin A, P, R, AAN, ""TURBO"" (1992-96)	S4, S6	41
2309cc, (2.3L), SOHC, GAS, FI, 10 Valve, Vin B, C, D, NF, NG (1987-92)	100, 100 Quattro, 5000, 5000 Quattro, 80, 80 Quattro, 90, 90 Quattro, Coupe	42
2309cc, (2.3L), DOHC, GAS, FI, 20 Valve, Vin E, 7A (1990-91)	90 Quattro, Coupe Quattro	43

AUDI / PASSENGER CAR (Cont'd)

Engine	Models	Line No.
5 Cylinder		
2480cc, (2.5L), DOHC, GAS, FI, 20 Valve, CEPB, ""TURBO"" (2012-13)	TT RS Quattro	44
2480cc, (2.5L), DOHC, GAS, FI, 20 Valve, DAZA, ""TURBO"" (2017-21)	RS3, TT RS Quattro	45
6 Cylinder		
2671cc, (2.7L), DOHC, GAS, FI, 30 Valve, Vin D, P, APB, BEL, ""TURBO"" (2000-05)	A6 Quattro, Allroad Quattro, S4	46
2771cc, (2.8L), SOHC, GAS, FI, 12 Valve, Vin A, B, C, E, J, K, L, AAH, AFC (1992-98)	100, 100 Quattro, 90, 90 Quattro, A4, A4 Quattro, A6, A6 Quattro, Cabriolet	47
2771cc, (2.8L), DOHC, GAS, FI, 30 Valve, Vin A, D, H, AHA, ATQ (1998-01)	A4, A4 Quattro, A6, A6 Quattro	48
2894cc, (2.9L), DOHC, GAS, FI, 24 Valve, DECA, ""TURBO"" (2018-21)	RS5, RS5 Sportback	49
2967cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, CATA, ""TDI TURBO"" (2009-12)	Q7	50
2967cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, CNRB, ""TDI TURBO"" (2013-15)	Q7	51
2967cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, CPNA, ""TDI TURBO"" (2014-14)	A8 Quattro	52
2967cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, CPNB, ""TDI TURBO"" (2014-16)	A6 Quattro, A7 Quattro, A8 Quattro, Q5	53
2976cc, (3.0L), DOHC, GAS, FI, 30 Valve, Vin T, AVK (2002-04)	A4, A4 Quattro, A6, A6 Quattro	54
2976cc, (3.0L), DOHC, GAS, FI, 30 Valve, BGN (2005-06)	A4, A4 Quattro	55
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CAJA, ""Supercharged"" (2009-09)	A6 Quattro	56
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CAKA, ""Supercharged"" (2010-12)	S5	57
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CCAA, ""Supercharged"" (2009-11)	A6 Quattro	58
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CCBA, ""Supercharged"" (2010-12)	S4, S5	59
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CGXB, ""Supercharged"" (2012-12)	A7 Quattro	60
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CGXC, ""Supercharged"" (2013-13)	S4, S5	61
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CJWC, ""Supercharged"" (2011-11)	Q7	62
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CJWB, ""Supercharged"" (2011-12)	Q7	63
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CJWE, ""Supercharged"" (2012-12)	Q7	64
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CREC, ""Supercharged"" (2015-19)	A6 Quattro, A7 Quattro, A8 Quattro, Q7	65
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CREH, ""Supercharged"" (2017-18)	A6 Quattro, A7 Quattro	66
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CTUA, ""Supercharged"" (2013-15)	A6 Quattro, A7 Quattro	67
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CTUB, ""Supercharged"" (2013-16)	A8 Quattro, S4, S5	68

(Cont'd) AUDI / PASSENGER CAR

Engine	Models	Line No.
6 Cylinder		
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CTUC, ""Supercharged"" (2013-16)	Q5	69
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CTUD, ""Supercharged"" (2014-16)	SQ5	70
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CTWA, ""Supercharged"" (2013-15)	Q7	71
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CTWB, ""Supercharged"" (2013-15)	Q7	72
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CWGD, ""TURBO"" (2018-21)	S4, S5, S5 Sportback, SQ5	73
2995cc, (3.0L), DOHC, ELECTRIC/GAS, FI, 24 Valve, CZSE, ""Hybrid TURBO"" (2019-21)	A8 Quattro	74
3123cc, (3.2L), DOHC, GAS, FI, 24 Valve, BKH (2005-09) ..	A4, A4 Quattro, A6, A6 Quattro	75
3123cc, (3.2L), DOHC, GAS, FI, 24 Valve, CALA (2008-11) ..	A4 Quattro, A5 Quattro, A6	76
3123cc, (3.2L), DOHC, GAS, FI, 24 Valve, CALB (2009-12) ..	Q5	77
3189cc, (3.2L), DOHC, GAS, FI, 24 Valve, BHE (2004-06) ..	TT Quattro	78
3189cc, (3.2L), DOHC, GAS, FI, 24 Valve, BUB (2006-07) ..	A3 Quattro	79
3189cc, (3.2L), DOHC, GAS, FI, 24 Valve, CBRA (2008-09) ..	A3 Quattro, TT Quattro	80
3597cc, (3.6L), DOHC, GAS, FI, 24 Valve, BHK (2007-10) ..	Q7	82
8 Cylinder		
3562cc, (3.6L), DOHC, GAS, FI, 32 Valve, Vin E, PT (1990-91)	V8 Quattro	81
3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CEUA, ""TURBO"" (2013-14)	A8 Quattro	83
3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CEUC, ""TURBO"" (2013-15)	S6, S7	84
3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CGTA, ""TURBO"" (2013-14)	S8	85
3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CRDB, ""TURBO"" (2014-15)	RS7	86
3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CTGA, ""TURBO"" (2015-15)	A8 Quattro	87
3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CTGE, ""TURBO"" (2016-18)	S6, S7	88
3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CTGF, ""TURBO"" (2016-18)	A8 Quattro	89
3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CWUB, ""TURBO"" (2016-18)	RS7	90
3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CWUC, ""TURBO"" (2016-18)	RS7	91
3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, DDTA, ""TURBO"" (2016-18)	S8	92
4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, BAR (2007-10) ..	Q7	93
4163cc, (4.2L), DOHC, GAS, FI, 40 Valve, BHF (2004-09) ..	S4	94
4163cc, (4.2L), DOHC, GAS, FI, 40 Valve, BNK (2005-06) ..	A6 Quattro	95
4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, BVJ (2007-11) ..	A6 Quattro, A8 Quattro	96
4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, BYH (2008-10) ..	R8	97
4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, CAUA (2008-12) ..	S5	98

AUDI / PASSENGER CAR (Cont'd)

Engine	Models	Line No.
8 Cylinder		
4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, CDRA (2011-12) .	A8 Quattro	99
4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, CFSA (2013-15) .	RS5	100
4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, CNDA (2011-15) .	R8	101
4172cc, (4.2L), DOHC, GAS, FI, 32 Valve, Vin W, ABH (1992-94)	V8 Quattro	102
4172cc, (4.2L), DOHC, GAS, FI, 32 Valve, Vin G, ABZ (1997-99)	A8 Quattro	103
4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, Vin L, AKB (2000-03)	A8 Quattro	104
4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, Vin L, ART (2000-00)	A6 Quattro	105
4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, Vin L, AUX (2001-03)	A8 Quattro	106
4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, Vin U, AYS (2001-03)	S8	107
4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, Vin L, AWN (2001-04)	A6 Quattro	108
4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, BAS (2003-05) . .	Allroad Quattro	109
4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, Vin U, BBD (2002-03)	S6	110
4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, BFM (2004-05) . .	A8 Quattro	111
4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, BGK (2006-06) . .	A8 Quattro	112
4172cc, (4.2L), DOHC, GAS, FI, 32 Valve, BNS (2007-08) . .	RS4	113
10 Cylinder		
5204cc, (5.2L), DOHC, GAS, FI, 40 Valve, BSM (2007-09) . .	S8	114
5204cc, (5.2L), DOHC, GAS, FI, 40 Valve, BUJ (2010-12) . . .	R8	115
5204cc, (5.2L), DOHC, GAS, FI, 40 Valve, BXA (2007-11) . .	S6	116
5204cc, (5.2L), DOHC, GAS, FI, 40 Valve, CMPA (2012-12) .	R8	117
5204cc, (5.2L), DOHC, GAS, FI, 40 Valve, CTPA (2014-15) .	R8	118
5204cc, (5.2L), DOHC, GAS, FI, 40 Valve, CTYA (2014-15) .	R8	119
12 Cylinder		
5998cc, (6.0L), DOHC, GAS, FI, 48 Valve, BSB (2005-09) . .	A8 Quattro	120
6229cc, (6.3L), DOHC, GAS, FI, 48 Valve, CEJA (2013-14) .	A8 Quattro	121
6229cc, (6.3L), DOHC, GAS, FI, 48 Valve, CTNA (2015-16) .	A8 Quattro	122

1 1471cc, (1.5L), SOHC, GAS, CARB, 8 Valve, XZ **AUD1.5XZ**
1973-74 **L4 90 CID** **BORE - 76.5mm/3.01"**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1974-74	SB1437-50	1 ⁷ / ₁₆ O.D., 1.140T I.D., 0.3050 Depth
	Exh	1974-74	SB1312-50	1 ⁵ / ₁₆ O.D., 1.086T I.D., 0.3050 Depth
		1974-74	SB1312-56	1 ⁵ / ₁₆ O.D., 1.086 I.D., 0.3050 Depth, Optional Straight I.D.
Keeper	Both	1974-74	121-1020	1 RD Bead Type
Stem Seal	Both	1974-74	122-1089	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1974-74	140-7359	0.3155 I.D., 1.435 Length, 0.4765 O.D.

(Cont'd) **AUDI / PASSENGER CAR**

1588cc, (1.6L), SOHC, GAS, FI, 8 Valve, YG, YH, YK **AUD1.6Y** **2**
1975-80 L4 97 CID **BORE - 79.5mm/3.13"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1975-80	SB1437-50	17/16 O.D.,1.140T I.D.,0.3050 Depth
	Exh	1975-80	SB1312-50	15/16 O.D.,1.086T I.D.,0.3050 Depth
		1975-80	SB1312-56	15/16 O.D.,1.086 I.D.,0.3050 Depth,Optional Straight I.D.
Keeper	Both	1975-80	121-1020	1 RD Bead Type
Stem Seal	Both	1975-80	122-1089	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1975-80	140-7359	0.3155 I.D.,1.435 Length,0.4765 O.D.

1588cc, (1.6L), SOHC, DIESEL, FI, 8 Valve, Vin G, CR, JK **AUD1.6CJ** **3**
1982-83 L4 97 CID **BORE - 79.5mm/3.13"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1982-83	SB1437-50	17/16 O.D.,1.140T I.D.,0.3050 Depth
	Exh	1982-83	SB1312-50	15/16 O.D.,1.086T I.D.,0.3050 Depth
		1982-83	SB1312-56	15/16 O.D.,1.086 I.D.,0.3050 Depth,Optional Straight I.D.
Valve	Int	1982-83	10367	1.337 Head Diameter,4.126 Overall Length, 3 Groove
	Exh	1982-83	10370S	1.227 Head Diameter,Stellite Face,4.118 Overall Length, 3 Groove
Keeper	Both	1982-83	121-1020	1 RD Bead Type
		1982-83	121-1083	3 RD Bead Type
Stem Seal	Both	1982-83	122-1089	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1982-83	140-7359	0.3155 I.D.,1.435 Length,0.4765 O.D.

1588cc, (1.6L), SOHC, DIESEL, FI, 8 Valve, Turbo, Vin H, CY, ""TURBO"" **AUD1.6CY** **4**
1982-83 L4 97 CID **BORE - 79.5mm/3.13"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1982-83	SB1437-50	17/16 O.D.,1.140T I.D.,0.3050 Depth
	Exh	1982-83	SB1312-50	15/16 O.D.,1.086T I.D.,0.3050 Depth
		1982-83	SB1312-56	15/16 O.D.,1.086 I.D.,0.3050 Depth,Optional Straight I.D.

1715cc, (1.7L), SOHC, GAS, FI, 8 Valve, Vin A, WT **AUD1.7WT** **5**
1981-83 L4 105 CID **BORE - 79.5mm/3.13"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1981-83	SB1437-50	17/16 O.D.,1.140T I.D.,0.3050 Depth
	Exh	1981-83	SB1312-50	15/16 O.D.,1.086T I.D.,0.3050 Depth
		1981-83	SB1312-56	15/16 O.D.,1.086 I.D.,0.3050 Depth,Optional Straight I.D.
Keeper	Both	1981-83	121-1083	3 RD Bead Type
Stem Seal	Both	1981-83	122-1089	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1982-83	140-7359	0.3155 I.D.,1.435 Length,0.4765 O.D.
	Both	1981-81	140-7359	0.3155 I.D.,1.435 Length,0.4765 O.D.

1760cc, (1.8L), OHV, GAS, CARB, 8 Valve, ZT, ZY **AUD1.8ZZ** **6**
1970-71 L4 107 CID **BORE - 81.5mm/3.21"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1970-71	SB1437-59	17/16 O.D.,1.180T I.D.,0.3050 Depth

1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin A, B, C, JN, MG **AUD1.8MJ** **7**
1984-87 L4 109 CID **BORE - 81mm/3.19"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1984-87	SB1625-50	15/8 O.D.,1.340T I.D.,0.3070 Depth
	Exh	1984-87	SB1375-55	13/8 O.D.,1.120 I.D.,0.3250 Depth
Keeper	Both	1984-87	121-1083	3 RD Bead Type
Stem Seal	Both	1984-87	122-1089	Positive Type,Viton Material,Metal Clad Style

AUDI / PASSENGER CAR (Cont'd)

7 1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin A, B, C, JN, MG AUD1.8MJ
 (cont.) 1984-87 L4 109 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES	
Guide	Both	1984-84	140-7713	0.3145 I.D., 1.810 Length, 0.4745 O.D.
		1985-87	140-7359	0.3155 I.D., 1.435 Length, 0.4765 O.D.
Lifter	Both	1984-87	VL116	Hydraulic Bucket Type

8 1781cc, (1.8L), DOHC, GAS, FI, 20 Valve, Vin C, S, T, X, AEB, AMB, AMU, ATC, ATW, AWM, AWP, BEA, ""TURBO"" AUD1.8-DC20VT
 1997-06 L4 109 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1997-06	SB1125-53	1 1/8 O.D., 0.890T I.D., 0.2370 Depth, NOTE: Seat May Need To Be Machined .020""-.030"" To Achieve Correct Depth
	Exh	1997-06	SB1250-54	1 1/4 O.D., 1.010T I.D., 0.2570 Depth, NOTE: Seat May Need To Be Machined .020""-.030"" To Achieve Correct Depth
Valve	Int	1997-06	10804S	1.059 Head Diameter, Stellite Face
	Exh	1997-06	10803S	1.177 Head Diameter, Stellite Face, W/.157 Tip To Groove Length, OEM # 058109611M
		1997-06	10805S	1.177 Head Diameter, Stellite Face, W/.222 Tip To Groove Length, OEM # 058109611E
Keeper	Both	1997-06	121-1098	3 RD Bead Type
Stem Seal	Both	1997-06	122-1363	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1997-06	140-3159BR	0.2362 I.D., 1.415 Length, 0.4355 O.D.
Spring	Int	1997-06	160-1471	1.615 Length
	Exh	1997-06	160-1472	1.725 Length
Lifter	Int	1997-06	VL523	Hydraulic Bucket Type
	Exh	1997-06	VL524	Hydraulic Bucket Type
Head Saver Shim		1997-06	230-2138	New Hgt. - N/A - Min. Hgt. - 5.480""

9 1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, CNSB, ""TURBO"" AUD1.8-CNSB
 2015-16 L4 110 CID BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES	
Valve	Exh	2015-16	13318	1.102 Head Diameter
Keeper	Both	2015-16	121-1098	3 RD Bead Type
Stem Seal	Both	2015-16	122-1363	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2015-16	140-3159BR	0.2362 I.D., 1.415 Length, 0.4355 O.D.
Lifter	Both	2015-16	VL569	Hydraulic Lash Adjuster Type

10 1872cc, (1.9L), OHV, GAS, CARB, 8 Valve, XT, XU, ZG, ZH, ZK, ZL, ZW AUD1.9Z-CA
 1972-74 L4 114 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1972-74	SB1437-59	1 7/16 O.D., 1.180T I.D., 0.3050 Depth

11 1872cc, (1.9L), OHV, GAS, FI, 8 Valve, YA, YB, YC, YD AUD1.9Z-FI
 1975-77 L4 114 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1975-77	SB1437-59	1 7/16 O.D., 1.180T I.D., 0.3050 Depth

12 1968cc, (2.0L), DOHC, DIESEL, FI, 16 Valve, CBEA, ""TDI TURBO"" AUD2.0-CBEA
 2010-13 L4 120 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2010-13	121-1098	3 RD Bead Type
Stem Seal	Both	2010-13	122-1363	Positive Type, Viton Material, Metal Clad Style

(Cont'd) **AUDI / PASSENGER CAR**

1968cc, (2.0L), DOHC, DIESEL, FI, 16 Valve, CBEA, ""TDI TURBO"" AUD2.0-CBEA **12**
2010-13 L4 120 CID BORE - 81mm/3.19"" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Both	2010-13	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

1968cc, (2.0L), DOHC, DIESEL, FI, 16 Valve, CRUA, ""TDI TURBO"" AUD2.0-CRUA **13**
2015-15 L4 120 CID BORE - 81mm/3.19""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2015-15	121-1098	3 RD Bead Type
Stem Seal	Both	2015-15	122-1363	Positive Type,Viton Material,Metal Clad Style

1983cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin A, B, 3A AUD2.03A **14**
1988-90 L4 121 CID BORE - 84.1mm/3.31""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1988-90 1988-90	SB1625-50 SB1375-55	1% O.D.,1.340T I.D.,0.3070 Depth 1% O.D.,1.120 I.D.,0.3250 Depth
Keeper	Exh	1988-90	121-1083	3 RD Bead Type
Stem Seal	Both	1988-90	122-1089	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1988-90	140-7359	0.3155 I.D.,1.435 Length,0.4765 O.D.
Lifter	Both	1988-90	VL116	Hydraulic Bucket Type

1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F, BPG, BPY, BWT, ""TURBO"" AUD2.0BPG **15**
2005-09 L4 121 CID BORE - 82.6mm/3.25""

PART	YEARS	PART NO.	NOTES	
Valve	Int Exh	2005-09 2005-09	13315S 13316SN	1.333 Head Diameter,Stellite Face 1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2005-09	121-1098	3 RD Bead Type
Stem Seal	Both	2005-09	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2005-09	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2005-09	VL569	Hydraulic Lash Adjuster Type

1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CAEB, ""TURBO"" AUD2.0-CAEB **16**
2009-13 L4 121 CID BORE - 82.5mm/3.25""

PART	YEARS	PART NO.	NOTES	
Valve	Int Exh	2009-13 2009-13	13315S 13316SN	1.333 Head Diameter,Stellite Face 1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2009-13	121-1098	3 RD Bead Type
Stem Seal	Both	2009-13	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2009-13	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2009-13	VL569	Hydraulic Lash Adjuster Type

1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CAED, ""TURBO"" AUD2.0-CAED **17**
2014-17 L4 121 CID BORE - 82.5mm/3.25""

PART	YEARS	PART NO.	NOTES	
Valve	Int Exh	2014-16 2014-16	13315S 13316SN	1.333 Head Diameter,Stellite Face 1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2014-16	121-1098	3 RD Bead Type
Stem Seal	Both	2014-16	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2014-16	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2014-16	VL569	Hydraulic Lash Adjuster Type

AUDI / PASSENGER CAR (Cont'd)

18 1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CBFA, ""TURBO"" AUD2.0-CBFA
 2008-13 L4 121 CID BORE - 82.6mm/3.25""

PART		YEARS	PART NO.	NOTES
Valve	Int	2008-13	13315S	1.333 Head Diameter,Stellite Face
	Exh	2008-13	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2008-13	121-1098	3 RD Bead Type
Stem Seal	Both	2008-13	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2008-13	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2008-13	VL569	Hydraulic Lash Adjuster Type

19 1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CCTA, ""TURBO"" AUD2.0-CCTA
 2008-18 L4 121 CID BORE - 82.5mm/3.25""

PART		YEARS	PART NO.	NOTES
Valve	Int	2008-13	13315S	1.333 Head Diameter,Stellite Face
	Exh	2008-18	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2008-18	121-1098	3 RD Bead Type
Stem Seal	Both	2008-18	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2008-18	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2008-18	VL569	Hydraulic Lash Adjuster Type

20 1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CDMA, ""TURBO"" AUD2.0-CDMA
 2009-15 L4 121 CID BORE - 82.5mm/3.25""

PART		YEARS	PART NO.	NOTES
Valve	Int	2009-15	13315S	1.333 Head Diameter,Stellite Face
	Exh	2009-15	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2009-15	121-1098	3 RD Bead Type
Stem Seal	Both	2009-15	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2009-15	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2009-15	VL569	Hydraulic Lash Adjuster Type

21 1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CETA, ""TURBO"" AUD2.0-CETA
 2011-15 L4 121 CID BORE - 82.6mm/3.25""

PART		YEARS	PART NO.	NOTES
Valve	Int	2011-15	13315S	1.333 Head Diameter,Stellite Face
	Exh	2011-15	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2011-15	121-1098	3 RD Bead Type
Stem Seal	Both	2011-15	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2011-15	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2011-15	VL569	Hydraulic Lash Adjuster Type

22 1984cc, (2.0L), DOHC, ELECTRIC/GAS, FI, 16 Valve, CHJA, ""Hybrid TURBO"" AUD2.0-CHJA
 2013-16 L4 121 CID BORE - 82.6mm/3.25""

PART		YEARS	PART NO.	NOTES
Valve	Int	2013-16	13315S	1.333 Head Diameter,Stellite Face
	Exh	2013-16	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2013-16	121-1098	3 RD Bead Type
Stem Seal	Both	2013-16	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-16	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2013-16	VL569	Hydraulic Lash Adjuster Type

(Cont'd) **AUDI / PASSENGER CAR**

1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CNTC, ""TURBO"" **AUD2.0-CNTC 23**
2015-18 L4 121 CID BORE - 82.5mm/3.25""

PART	YEARS	PART NO.	NOTES
Valve	Exh	2015-17 13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2015-18 121-1098	3 RD Bead Type
Stem Seal	Both	2015-15 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2015-18 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2015-18 VL569	Hydraulic Lash Adjuster Type

1984cc, (2.0L), DOHC, FLEX, FI, 16 Valve, CPMA, ""TURBO"" **AUD2.0-CPMA 24**
2013-13 L4 121 CID BORE - 82.6mm/3.25""

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2013-13 13315S 2013-13 13316SN	1.333 Head Diameter,Stellite Face 1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2013-13 121-1098	3 RD Bead Type
Stem Seal	Both	2013-13 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-13 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2013-13 VL569	Hydraulic Lash Adjuster Type

1984cc, (2.0L), DOHC, FLEX, FI, 16 Valve, CPMB, ""TURBO"" **AUD2.0-CPMB 25**
2014-16 L4 121 CID BORE - 82.6mm/3.25""

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2014-16 13315S 2014-16 13316SN	1.333 Head Diameter,Stellite Face 1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2014-16 121-1098	3 RD Bead Type
Stem Seal	Both	2014-16 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2014-16 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2014-16 VL569	Hydraulic Lash Adjuster Type

1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CYFB, ""TURBO"" **AUD2.0-CYFB 26**
2015-18 L4 121 CID BORE - 82.5mm/3.25""

PART	YEARS	PART NO.	NOTES
Valve	Exh	2015-17 13318 2018-18 13316SN	1.102 Head Diameter 1.102 Head Diameter,Stellite Face, Sodium Filled,TT Quattro
Keeper	Both	2015-18 121-1098	3 RD Bead Type
Stem Seal	Both	2016-18 122-1363	Positive Type,Viton Material,Metal Clad Style,TT Quattro
Lifter	Both	2015-18 VL569	Hydraulic Lash Adjuster Type

1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CYMC, ""TURBO"" **AUD2.0-CYMC 27**
2017-20 L4 121 CID BORE - 82.5mm/3.25""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2017-20 121-1098	3 RD Bead Type
Lifter	Both	2017-20 VL569	Hydraulic Lash Adjuster Type

1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CYNB, ""TURBO"" **AUD2.0-CYNB 28**
2016-18 L4 121 CID BORE - 82.6mm/3.25""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2016-18 121-1098	3 RD Bead Type
Stem Seal	Both	2016-17 122-1363	Positive Type,Viton Material,Metal Clad Style
Lifter	Both	2016-18 VL569	Hydraulic Lash Adjuster Type

AUDI / PASSENGER CAR (Cont'd)

29 1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CZRA, ""TURBO"" AUD2.0-CZRA
 2017-20 L4 121 CID BORE - 82.5mm/3.25""

PART	YEARS	PART NO.	NOTES	
Valve	Exh	2017-17	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2017-20	121-1098	3 RD Bead Type
Lifter	Both	2017-20	VL569	Hydraulic Lash Adjuster Type

30 1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, DAYB, ""TURBO"" AUD2.0-DAYB
 2018-18 L4 121 CID BORE - 82.6mm/3.25""

PART	YEARS	PART NO.	NOTES	
Stem Seal	Int	2018-18	122-1363	Positive Type,Viton Material,Metal Clad Style
Lifter	Both	2018-18	VL569	Hydraulic Lash Adjuster Type

31 1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, DBPA, ""TURBO"" AUD2.0-DBPA
 2017-20 L4 121 CID BORE - 82.5mm/3.25""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2017-20	121-1098	3 RD Bead Type
Lifter	Both	2017-20	VL569	Hydraulic Lash Adjuster Type

32 1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, DHHA, ""TURBO"" AUD2.0-DHHA
 2019-21 L4 121 CID BORE - 82.5mm/3.25""

PART	YEARS	PART NO.	NOTES	
Keeper		2019-20	121-1098	3 RD Bead Type
Lifter	Both	2019-20	VL569	Hydraulic Lash Adjuster Type

33 1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, DJJA, ""TURBO"" AUD2.0-DJJA
 2018-18 L4 121 CID BORE - 82.6mm/3.25""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2018-18	121-1098	3 RD Bead Type
Lifter	Both	2018-18	VL569	Hydraulic Lash Adjuster Type

34 1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, DLRA, ""TURBO"" AUD2.0-DLRA
 2019-21 L4 121 CID BORE - 82.5mm/3.25""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2019-20	121-1098	3 RD Bead Type
Lifter	Both	2019-20	VL569	Hydraulic Lash Adjuster Type

35 1986cc, (2.0L), SOHC, DIESEL, FI, 10 Valve, Vin G, CN AUD2.0CN
 1979-81 L5 121 CID BORE - 76.5mm/3.01""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1979-81	SB1500-62	1½ O.D.,1.220T I.D.,0.3100 Depth
	Exh	1979-81	SB1312-50	1¾ O.D.,1.086T I.D.,0.3050 Depth
		1979-81	SB1312-56	1¾ O.D.,1.086 I.D.,0.3050 Depth,Optional Straight I.D.
Valve	Exh	1979-81	10370S	1.227 Head Diameter,Stellite Face,4.118 Overall Length, 3 Groove
Keeper	Both	1979-81	121-1020	1 RD Bead Type
		1979-81	121-1083	3 RD Bead Type
Stem Seal	Both	1979-81	122-1089	Positive Type,Viton Material,Metal Clad Style

36 1986cc, (2.0L), SOHC, DIESEL, FI, 10 Valve, Vin H, DE, ""TURBO"" AUD2.0DE
 1982-84 L5 121 CID BORE - 76.5mm/3.01""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1982-84	SB1500-62	1½ O.D.,1.220T I.D.,0.3100 Depth
	Exh	1982-84	SB1312-50	1¾ O.D.,1.086T I.D.,0.3050 Depth

(Cont'd) AUDI / PASSENGER CAR

1986cc, (2.0L), SOHC, DIESEL, FI, 10 Valve, Vin H, DE, ""TURBO"" **AUD2.0DE 36**
 1982-84 L5 121 CID **BORE - 76.5mm/3.01"" (cont.)**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1982-84	SB1312-56	1 $\frac{5}{16}$ O.D.,1.086 I.D.,0.3050 Depth,Optional Straight I.D.
Valve	Exh 1982-84	10370S	1.227 Head Diameter,Stellite Face,4.118 Overall Length, 3 Groove
Keeper	Exh 1982-84	121-1083	3 RD Bead Type
Stem Seal	Both 1982-84	122-1089	Positive Type,Viton Material,Metal Clad Style

2144cc, (2.2L), SOHC, GAS, FI, 10 Valve, Vin A, B, WD, WE, WU **AUD2.2W-DEU 37**
 1978-84 L5 131 CID **BORE - 79.5mm/3.13""**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1978-84	SB1312-50	1 $\frac{5}{16}$ O.D.,1.086T I.D.,0.3050 Depth
	1978-84	SB1312-56	1 $\frac{5}{16}$ O.D.,1.086 I.D.,0.3050 Depth,Optional Straight I.D.
Keeper	Exh 1978-84	121-1020	1 RD Bead Type
Stem Seal	Both 1978-84	122-1089	Positive Type,Viton Material,Metal Clad Style

2144cc, (2.2L), SOHC, GAS, FI, 10 Valve, Vin C, KH, WK, ""TURBO"" **AUD2.2W-KH 38**
 1980-85 L5 131 CID **BORE - 79.5mm/3.13""**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1980-85	SB1312-50	1 $\frac{5}{16}$ O.D.,1.086T I.D.,0.3050 Depth
	1980-85	SB1312-56	1 $\frac{5}{16}$ O.D.,1.086 I.D.,0.3050 Depth,Optional Straight I.D.
Keeper	Both 1983-85	121-1083	3 RD Bead Type
Stem Seal	Both 1980-85	122-1089	Positive Type,Viton Material,Metal Clad Style

2226cc, (2.2L), SOHC, GAS, FI, 10 Valve, Vin B, JT, KZ **AUD2.2JT-KZ 39**
 1984-87 L5 136 CID **BORE - 81mm/3.19""**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1984-87	SB1625-50	1 $\frac{5}{8}$ O.D.,1.340T I.D.,0.3070 Depth
	Exh 1984-87	SB1375-55	1 $\frac{3}{8}$ O.D.,1.120 I.D.,0.3250 Depth
Keeper	Both 1984-87	121-1083	3 RD Bead Type
Stem Seal	Both 1984-87	122-1089	Positive Type,Viton Material,Metal Clad Style
Guide	Int 1984-87	140-7359	0.3155 I.D.,1.435 Length,0.4765 O.D.
	Exh 1984-87	140-7713	0.3145 I.D.,1.810 Length,0.4745 O.D.
Lifter	Both 1984-87	VL116	Hydraulic Bucket Type

2226cc, (2.2L), SOHC, GAS, FI, 10 Valve, Vin C, D, E, MC, ""TURBO"" **AUD2.2MC 40**
 1986-91 L5 136 CID **BORE - 81mm/3.19""**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1986-91	SB1625-50	1 $\frac{5}{8}$ O.D.,1.340T I.D.,0.3070 Depth
	Exh 1986-91	SB1375-55	1 $\frac{3}{8}$ O.D.,1.120 I.D.,0.3250 Depth
Keeper	Int 1986-91	121-1083	3 RD Bead Type
Stem Seal	Both 1986-91	122-1089	Positive Type,Viton Material,Metal Clad Style
Guide	Int 1986-91	140-7359	0.3155 I.D.,1.435 Length,0.4765 O.D.
	Exh 1986-91	140-7713	0.3145 I.D.,1.810 Length,0.4745 O.D.
Lifter	Both 1986-91	VL116	Hydraulic Bucket Type

2226cc, (2.2L), DOHC, GAS, FI, 20 Valve, Vin A, P, R, AAN, ""TURBO"" **AUD2.2AAN 41**
 1992-96 L5 136 CID **BORE - 81mm/3.19""**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1992-96	SB1312-64	1 $\frac{5}{16}$ O.D.,1.045 I.D.,0.3160 Depth
	Exh 1992-96	SB1125-54	1 $\frac{1}{8}$ O.D.,0.900 I.D.,0.3250 Depth

AUDI / PASSENGER CAR (Cont'd)

41 2226cc, (2.2L), DOHC, GAS, FI, 20 Valve, Vin A, P, R, AAN, ""TURBO"" AUD2.2AAN
(cont.) 1992-96 L5 136 CID BORE - 81mm/3.19""

PART	YEARS	PART NO.	NOTES
Stem Seal	Both	1992-96 122-1250	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1992-96 140-8139	0.2765 I.D.,1.488 Length,0.4763 O.D.
Lifter	Both	1992-96 VL116	Hydraulic Bucket Type

42 2309cc, (2.3L), SOHC, GAS, FI, 10 Valve, Vin B, C, D, NF, NG AUD2.3N-FG
1987-92 L5 141 CID BORE - 82.5mm/3.25""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1987-92 SB1625-50 1987-92 SB1375-55	1 $\frac{5}{8}$ O.D.,1.340T I.D.,0.3070 Depth,W/ 1.579 Valve Head Dia. 1 $\frac{3}{8}$ O.D.,1.120 I.D.,0.3250 Depth
Keeper	Both	1987-92 121-1083	3 RD Bead Type
Stem Seal	Both	1987-92 122-1089	Positive Type,Viton Material,Metal Clad Style,NG Eng. Only
Guide	Both	1987-92 140-7359	0.3155 I.D.,1.435 Length,0.4765 O.D.
Lifter	Both	1987-92 VL116	Hydraulic Bucket Type

43 2309cc, (2.3L), DOHC, GAS, FI, 20 Valve, Vin E, 7A AUD2.3-7A
1990-91 L5 141 CID BORE - 82.5mm/3.25""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1990-91 SB1312-64 1990-91 SB1125-54	1 $\frac{1}{2}$ O.D.,1.045 I.D.,0.3160 Depth 1 $\frac{1}{8}$ O.D.,0.900 I.D.,0.3250 Depth
Stem Seal	Both	1990-91 122-1250	Positive Type,Viton Material,Metal Clad Style
Lifter	Both	1990-91 VL116	Hydraulic Bucket Type

44 2480cc, (2.5L), DOHC, GAS, FI, 20 Valve, CEPB, ""TURBO"" AUD2.5-CEPB
2012-13 L5 151 CID BORE - 82.5mm/3.25""

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2012-13 13315S 2012-13 13316SN	1.333 Head Diameter,Stellite Face 1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2012-13 121-1098	3 RD Bead Type
Stem Seal	Both	2012-13 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2012-13 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2012-13 VL569	Hydraulic Lash Adjuster Type

45 2480cc, (2.5L), DOHC, GAS, FI, 20 Valve, DAZA, ""TURBO"" AUD2.5-DAZA
2017-21 L5 151 CID BORE - 82.5mm/3.25""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2017-20 121-1098	3 RD Bead Type
Lifter	Both	2017-20 VL569	Hydraulic Lash Adjuster Type

46 2671cc, (2.7L), DOHC, GAS, FI, 30 Valve, Vin D, P, APB, BEL, ""TURBO"" AUD-2.7T
2000-05 V6 163 CID BORE - 81mm/3.19""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	2000-05 SB1125-53 2000-05 SB1250-54	1 $\frac{1}{8}$ O.D.,0.890T I.D.,0.2370 Depth,NOTE: Seat May Need To Be Machined .020""-.030"" To Achieve Correct Depth 1 $\frac{1}{4}$ O.D.,1.010T I.D.,0.2570 Depth,NOTE: Seat May Need To Be Machined .020""-.030"" To Achieve Correct Depth
Valve	Int Exh	2000-05 10804S 2000-05 10803S 2000-05 10805S	1.059 Head Diameter,Stellite Face 1.177 Head Diameter,Stellite Face,W/.157 Tip To Groove Length, OEM # 058109611M 1.177 Head Diameter,Stellite Face,W/.222 Tip To Groove Length, OEM # 058109611E

(Cont'd) **AUDI / PASSENGER CAR**

2671cc, (2.7L), DOHC, GAS, FI, 30 Valve, Vin D, P, APB, BEL, ""TURBO"" AUD-2.7T **46**
2000-05 V6 163 CID BORE - 81mm/3.19"" (cont.)

PART	YEARS	PART NO.	NOTES
Keeper	Both 2000-05	121-1098	3 RD Bead Type
Stem Seal	Both 2000-05	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both 2000-05	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Spring	Int 2000-05 Exh 2000-05	160-1471 160-1472	1.615 Length 1.725 Length
Lifter	Int 2000-05 Exh 2000-05	VL523 VL524	Hydraulic Bucket Type Hydraulic Bucket Type

2771cc, (2.8L), SOHC, GAS, FI, 12 Valve, Vin A, B, C, E, J, K, L, AAH, AFC AUD2.8-SC12V **47**
1992-98 V6 169 CID BORE - 82.5mm/3.19""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1992-95 Exh 1992-95	SB1625-50 SB1375-55	1 $\frac{5}{8}$ O.D.,1.340T I.D.,0.3070 Depth 1 $\frac{3}{8}$ O.D.,1.120 I.D.,0.3250 Depth
Valve	Int 1995-98 Exh 1995-98	10733 10734S	1.555 Head Diameter,W/7mm Stem Dia. 1.295 Head Diameter,Stellite Face,W/7mm Stem Dia.
Keeper	Both 1992-95 1995-98	121-1083 121-1128	3 RD Bead Type 3 RD Bead Type,W/7mm Stem Dia.
Stem Seal	Both 1992-95 1995-98	122-1089 122-1250	Positive Type,Viton Material,Metal Clad Style,W/8mm Stem Dia. Positive Type,Viton Material,Metal Clad Style,W/7mm Stem Dia.
Guide	Both 1992-95 1995-98	140-7359 140-8558	0.3155 I.D.,1.435 Length,0.4765 O.D.,W/8mm Stem Dia. 0.2765 I.D.,1.435 Length,0.4763 O.D.,W/7mm Stem Dia.
Lifter	Both 1992-95	VL116	Hydraulic Bucket Type

2771cc, (2.8L), DOHC, GAS, FI, 30 Valve, Vin A, D, H, AHA, ATQ AUD2.8-AHA **48**
1998-01 V6 169 CID BORE - 81mm/3.19"" (AHA), 82.5mm/3.27"" (ATQ)

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1998-01 Exh 1998-01	SB1125-53 SB1250-54	1 $\frac{5}{8}$ O.D.,0.890T I.D.,0.2370 Depth,NOTE: Seat May Need To Be Machined .020""-.030"" To Achieve Correct Depth 1 $\frac{1}{4}$ O.D.,1.010T I.D.,0.2570 Depth,NOTE: Seat May Need To Be Machined .020""-.030"" To Achieve Correct Depth
Valve	Int 1998-01 Exh 1998-01 1998-01	10804S 10803S 10805S	1.059 Head Diameter,Stellite Face 1.177 Head Diameter,Stellite Face,W/.157 Tip To Groove Length, OEM # 058109611M 1.177 Head Diameter,Stellite Face,W/.222 Tip To Groove Length, OEM # 058109611E
Keeper	Both 1998-01	121-1098	3 RD Bead Type
Stem Seal	Both 1998-01	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both 1998-01	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Spring	Int 1998-01 Exh 1998-01	160-1471 160-1472	1.615 Length 1.725 Length
Lifter	Int 1998-01 Exh 1998-01	VL523 VL524	Hydraulic Bucket Type Hydraulic Bucket Type

2894cc, (2.9L), DOHC, GAS, FI, 24 Valve, DECA, ""TURBO"" AUD2.9-DECA **49**
2018-21 V6 177 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES
Keeper	Both 2018-20	121-1098	3 RD Bead Type

AUDI / PASSENGER CAR (Cont'd)

50 2967cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, CATA, ""TDI TURBO"" AUD3.0-CATA
 2009-12 V6 181 CID BORE - 83mm/3.27""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2009-12 121-1098	3 RD Bead Type
Stem Seal	Both	2009-12 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2009-12 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

51 2967cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, CNRB, ""TDI TURBO"" AUD3.0-CNRB
 2013-15 V6 181 CID BORE - 83mm/3.27""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2013-15 121-1098	3 RD Bead Type
Stem Seal	Both	2013-15 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-15 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

52 2967cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, CPNA, ""TDI TURBO"" AUD3.0-CPNA
 2014-14 V6 181 CID BORE - 83mm/3.27""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2014-14 121-1098	3 RD Bead Type
Stem Seal	Both	2014-14 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2014-14 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

53 2967cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, CPNB, ""TDI TURBO"" AUD3.0-CPNB
 2014-16 V6 181 CID BORE - 83mm/3.27""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2014-16 121-1098	3 RD Bead Type
Stem Seal	Both	2014-16 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2014-16 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

54 2976cc, (3.0L), DOHC, GAS, FI, 30 Valve, Vin T, AVK AUD3.0-AVK
 2002-04 V6 182 CID BORE - 82.5mm/3.25""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2002-04 SB1250-54	1¼ O.D.,1.010T I.D.,0.2570 Depth,NOTE: Seat May Need To Be Machined .020""-.030"" To Achieve Correct Depth
	Exh	2002-04 SB1125-53	1½ O.D.,0.890T I.D.,0.2370 Depth,NOTE: Seat May Need To Be Machined .020""-.030"" To Achieve Correct Depth
Valve	Int	2002-04 10804S	1.059 Head Diameter,Stellite Face
	Exh	2002-04 10803S	1.177 Head Diameter,Stellite Face,W/.157 Tip To Groove Length, OEM # 058109611M
		2002-04 10805S	1.177 Head Diameter,Stellite Face,W/.222 Tip To Groove Length, OEM # 058109611E
Keeper	Both	2002-04 121-1098	3 RD Bead Type
Stem Seal	Both	2002-04 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2002-04 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Spring	Int	2002-04 160-1471	1.615 Length
	Exh	2002-04 160-1472	1.725 Length
Lifter	Int	2002-04 VL523	Hydraulic Bucket Type
	Exh	2002-04 VL524	Hydraulic Bucket Type

55 2976cc, (3.0L), DOHC, GAS, FI, 30 Valve, BGN AUD3.0-BGN
 2005-06 V6 182 CID BORE - 82.5mm/3.25""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2005-06 SB1125-53	1½ O.D.,0.890T I.D.,0.2370 Depth,NOTE: Seat May Need To Be Machined .020""-.030"" To Achieve Correct Depth

(Cont'd) **AUDI / PASSENGER CAR**

2976cc, (3.0L), DOHC, GAS, FI, 30 Valve, BGN
2005-06 V6 182 CID

AUD3.0-BGN 55
BORE - 82.5mm/3.25" (cont.)

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 2005-06	SB1250-54	1¼ O.D., 1.010T I.D., 0.2570 Depth, NOTE: Seat May Need To Be Machined .020"- .030" To Achieve Correct Depth
Valve	Int 2005-06	10804S	1.059 Head Diameter, Stellite Face
	Exh 2005-06	10803S	1.177 Head Diameter, Stellite Face, W/ .157 Tip To Groove Length, OEM # 058109611M
	2005-06	10805S	1.177 Head Diameter, Stellite Face, W/ .222 Tip To Groove Length, OEM # 058109611E
Keeper	Both 2005-06	121-1098	3 RD Bead Type
Stem Seal	Both 2005-06	122-1363	Positive Type, Viton Material, Metal Clad Style
Guide	Both 2005-06	140-3159BR	0.2362 I.D., 1.415 Length, 0.4355 O.D.
Spring	Int 2005-06	160-1471	1.615 Length
	Exh 2005-06	160-1472	1.725 Length
Lifter	Int 2005-06	VL523	Hydraulic Bucket Type
	Exh 2005-06	VL524	Hydraulic Bucket Type

2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CAJA, ""Supercharged""
2009-09 V6 183 CID

AUD3.0-CAJA 56
BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Int 2009-09	13314	1.333 Head Diameter
	Exh 2009-09	13316SN	1.102 Head Diameter, Stellite Face, Sodium Filled
Keeper	Both 2009-09	121-1098	3 RD Bead Type
Stem Seal	Both 2009-09	122-1363	Positive Type, Viton Material, Metal Clad Style
Guide	Both 2009-09	140-3159BR	0.2362 I.D., 1.415 Length, 0.4355 O.D.
Lifter	Both 2009-09	VL569	Hydraulic Lash Adjuster Type

2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CAKA, ""Supercharged""
2010-12 V6 183 CID

AUD3.0-CAKA 57
BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Keeper	Both 2010-12	121-1098	3 RD Bead Type
Stem Seal	Both 2010-12	122-1363	Positive Type, Viton Material, Metal Clad Style
Guide	Both 2010-12	140-3159BR	0.2362 I.D., 1.415 Length, 0.4355 O.D.

2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CCAA, ""Supercharged""
2009-11 V6 183 CID

AUD3.0-CCAA 58
BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Int 2009-11	13314	1.333 Head Diameter
	Exh 2009-11	13316SN	1.102 Head Diameter, Stellite Face, Sodium Filled
Keeper	Both 2009-11	121-1098	3 RD Bead Type
Stem Seal	Both 2009-11	122-1363	Positive Type, Viton Material, Metal Clad Style
Guide	Both 2009-11	140-3159BR	0.2362 I.D., 1.415 Length, 0.4355 O.D.
Lifter	Both 2009-11	VL569	Hydraulic Lash Adjuster Type

2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CCBA, ""Supercharged""
2010-12 V6 183 CID

AUD3.0-CCBA 59
BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Int 2010-12	13314	1.333 Head Diameter
	Exh 2010-12	13316SN	1.102 Head Diameter, Stellite Face, Sodium Filled
Keeper	Both 2010-12	121-1098	3 RD Bead Type
Stem Seal	Both 2010-12	122-1363	Positive Type, Viton Material, Metal Clad Style

AUDI / PASSENGER CAR (Cont'd)

59 2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CCBA, ""Supercharged"" AUD3.0-CCBA
(cont.) 2010-12 V6 183 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES	
Guide	Both	2010-12	140-3159BR	0.2362 I.D., 1.415 Length, 0.4355 O.D.
Lifter	Both	2010-12	VL569	Hydraulic Lash Adjuster Type

60 2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CGXB, ""Supercharged"" AUD3.0-CGXB
2012-12 V6 183 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2012-12	13314	1.333 Head Diameter
	Exh	2012-12	13316SN	1.102 Head Diameter, Stellite Face, Sodium Filled
Keeper	Both	2012-12	121-1098	3 RD Bead Type
Stem Seal	Both	2012-12	122-1363	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2012-12	140-3159BR	0.2362 I.D., 1.415 Length, 0.4355 O.D.
Lifter	Both	2012-12	VL569	Hydraulic Lash Adjuster Type

61 2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CGXC, ""Supercharged"" AUD3.0-CGXC
2013-13 V6 183 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2013-13	13314	1.333 Head Diameter
	Exh	2013-13	13316SN	1.102 Head Diameter, Stellite Face, Sodium Filled
Keeper	Both	2013-13	121-1098	3 RD Bead Type
Stem Seal	Both	2013-13	122-1363	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2013-13	140-3159BR	0.2362 I.D., 1.415 Length, 0.4355 O.D.
Lifter	Both	2013-13	VL569	Hydraulic Lash Adjuster Type

62 2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CJWC, ""Supercharged"" AUD3.0-CJWC
2011-11 V6 183 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2011-11	13314	1.333 Head Diameter
	Exh	2011-11	13316SN	1.102 Head Diameter, Stellite Face, Sodium Filled
Keeper	Both	2011-11	121-1098	3 RD Bead Type
Stem Seal	Both	2011-11	122-1363	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2011-11	140-3159BR	0.2362 I.D., 1.415 Length, 0.4355 O.D.
Lifter	Both	2011-11	VL569	Hydraulic Lash Adjuster Type

63 2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CJWB, ""Supercharged"" AUD3.0-CJWB
2011-12 V6 183 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2011-12	13314	1.333 Head Diameter
	Exh	2011-12	13316SN	1.102 Head Diameter, Stellite Face, Sodium Filled
Keeper	Both	2011-12	121-1098	3 RD Bead Type
Stem Seal	Both	2011-12	122-1363	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2011-12	140-3159BR	0.2362 I.D., 1.415 Length, 0.4355 O.D.
Lifter	Both	2011-12	VL569	Hydraulic Lash Adjuster Type

64 2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CJWE, ""Supercharged"" AUD3.0-CJWE
2012-12 V6 183 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2012-12	13314	1.333 Head Diameter
	Exh	2012-12	13316SN	1.102 Head Diameter, Stellite Face, Sodium Filled
Keeper	Both	2012-12	121-1098	3 RD Bead Type

(Cont'd) **AUDI / PASSENGER CAR**

2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CJWE, ""Supercharged"" AUD3.0-CJWE **64**
2012-12 V6 183 CID BORE - 84.5mm/3.33"" (cont.)

PART	YEARS	PART NO.	NOTES
Stem Seal	Both	2012-12 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2012-12 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2012-12 VL569	Hydraulic Lash Adjuster Type

2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CREC, ""Supercharged"" AUD3.0-CREC **65**
2015-19 V6 183 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES
Valve	Int	2015-19 13314	1.333 Head Diameter
	Exh	2015-19 13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2015-19 121-1098	3 RD Bead Type
Stem Seal	Both	2015-19 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2015-19 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2015-19 VL569	Hydraulic Lash Adjuster Type

2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CREH, ""Supercharged"" AUD3.0-CREH **66**
2017-18 V6 183 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES
Valve	Int	2017-18 13314	1.333 Head Diameter
	Exh	2017-18 13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2017-18 121-1098	3 RD Bead Type
Stem Seal	Both	2017-17 122-1363	Positive Type,Viton Material,Metal Clad Style
Lifter	Both	2017-18 VL569	Hydraulic Lash Adjuster Type

2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CTUA, ""Supercharged"" AUD3.0-CTUA **67**
2013-15 V6 183 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES
Valve	Int	2013-15 13314	1.333 Head Diameter
	Exh	2013-15 13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2013-15 121-1098	3 RD Bead Type
Stem Seal	Both	2013-15 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-15 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2013-15 VL569	Hydraulic Lash Adjuster Type

2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CTUB, ""Supercharged"" AUD3.0-CTUB **68**
2013-16 V6 183 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES
Valve	Int	2013-16 13314	1.333 Head Diameter
	Exh	2013-15 13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2013-16 121-1098	3 RD Bead Type
Stem Seal	Both	2013-16 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-16 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2013-16 VL569	Hydraulic Lash Adjuster Type

2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CTUC, ""Supercharged"" AUD3.0-CTUC **69**
2013-16 V6 183 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES
Valve	Int	2013-16 13314	1.333 Head Diameter
	Exh	2013-16 13318	1.102 Head Diameter
Keeper	Both	2013-16 121-1098	3 RD Bead Type

AUDI / PASSENGER CAR (Cont'd)

69 2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CTUC, ""Supercharged"" AUD3.0-CTUC
 (cont.) 2013-16 V6 183 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES
Stem Seal	Both	2013-16 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-16 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2013-16 VL569	Hydraulic Lash Adjuster Type

70 2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CTUD, ""Supercharged"" AUD3.0-CTUD
 2014-16 V6 183 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES
Valve	Int	2014-16 13314	1.333 Head Diameter
	Exh	2014-16 13318	1.102 Head Diameter
Keeper	Both	2014-16 121-1098	3 RD Bead Type
Stem Seal	Both	2014-16 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2014-16 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2014-16 VL569	Hydraulic Lash Adjuster Type

71 2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CTWA, ""Supercharged"" AUD3.0-CTWA
 2013-15 V6 183 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES
Valve	Int	2013-15 13314	1.333 Head Diameter
Keeper	Both	2013-15 121-1098	3 RD Bead Type
Stem Seal	Both	2013-15 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-15 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2013-15 VL569	Hydraulic Lash Adjuster Type

72 2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CTWB, ""Supercharged"" AUD3.0-CTWB
 2013-15 V6 183 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES
Valve	Int	2013-15 13314	1.333 Head Diameter
Keeper	Both	2013-15 121-1098	3 RD Bead Type
Stem Seal	Both	2013-15 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-15 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2013-15 VL569	Hydraulic Lash Adjuster Type

73 2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CWGD, ""TURBO"" AUD3.0-CWGD
 2018-21 V6 183 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2018-20 121-1098	3 RD Bead Type

74 2995cc, (3.0L), DOHC, ELECTRIC/GAS, FI, 24 Valve, CZSE, ""Hybrid TURBO"" AUD3.0-CZSE
 2019-21 V6 183 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2019-20 121-1098	3 RD Bead Type

75 3123cc, (3.2L), DOHC, GAS, FI, 24 Valve, BKH AUD3.2-BKH
 2005-09 V6 195 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES
Valve	Int	2005-09 13314	1.333 Head Diameter
	Exh	2005-09 13318	1.102 Head Diameter
Keeper	Both	2005-09 121-1098	3 RD Bead Type

(Cont'd) **AUDI / PASSENGER CAR**

3123cc, (3.2L), DOHC, GAS, FI, 24 Valve, BKH **AUD3.2-BKH 75**
2005-09 V6 195 CID **BORE - 84.5mm/3.33"" (cont.)**

PART	YEARS	PART NO.	NOTES
Stem Seal	Both	2005-09 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2005-09 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2005-09 VL569	Hydraulic Lash Adjuster Type

3123cc, (3.2L), DOHC, GAS, FI, 24 Valve, CALA **AUD3.2-CALA 76**
2008-11 V6 195 CID **BORE - 85.5mm/3.37""**

PART	YEARS	PART NO.	NOTES
Valve	Int	2008-11 13314	1.333 Head Diameter
	Exh	2008-11 13318	1.102 Head Diameter
Keeper	Both	2008-11 121-1098	3 RD Bead Type
Stem Seal	Both	2008-11 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2008-11 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2008-11 VL569	Hydraulic Lash Adjuster Type

3123cc, (3.2L), DOHC, GAS, FI, 24 Valve, CALB **AUD3.2-CALB 77**
2009-12 V6 195 CID **BORE - 85.5mm/3.37""**

PART	YEARS	PART NO.	NOTES
Valve	Int	2009-12 13314	1.333 Head Diameter
	Exh	2009-12 13318	1.102 Head Diameter
Keeper	Both	2009-12 121-1098	3 RD Bead Type
Stem Seal	Both	2009-12 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2009-12 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2009-12 VL569	Hydraulic Lash Adjuster Type

3189cc, (3.2L), DOHC, GAS, FI, 24 Valve, BHE **AUD3.2-BHE 78**
2004-06 V6 195 CID **BORE - 84mm/3.31""**

PART	YEARS	PART NO.	NOTES
Valve	Int	2004-06 13310	1.307 Head Diameter,136.36mm Overall Length
		2004-06 13312	1.307 Head Diameter,102.46mm Overall Length
	Exh	2004-06 13311S	1.189 Head Diameter,Stellite Face,136.00mm Overall Length
		2004-06 13313S	1.189 Head Diameter,Stellite Face,102.20mm Overall Length
Keeper	Both	2004-06 121-1098	3 RD Bead Type
Stem Seal	Both	2004-06 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2004-06 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

3189cc, (3.2L), DOHC, GAS, FI, 24 Valve, BUB **AUD3.2-BUB 79**
2006-07 V6 195 CID **BORE - 84mm/3.31""**

PART	YEARS	PART NO.	NOTES
Valve	Int	2006-07 13310	1.307 Head Diameter,136.36mm Overall Length
		2006-07 13312	1.307 Head Diameter,102.46mm Overall Length
	Exh	2006-07 13311S	1.189 Head Diameter,Stellite Face,136.00mm Overall Length
		2006-07 13313S	1.189 Head Diameter,Stellite Face,102.20mm Overall Length
Keeper	Both	2006-07 121-1098	3 RD Bead Type
Stem Seal	Both	2006-07 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2006-07 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

AUDI / PASSENGER CAR (Cont'd)

80 3189cc, (3.2L), DOHC, GAS, FI, 24 Valve, CBRA
2008-09 V6 195 CID

AUD3.2-CBRA
BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2008-09	13310	1.307 Head Diameter,136.36mm Overall Length
		2008-09	13312	1.307 Head Diameter,102.46mm Overall Length
	Exh	2008-09	13311S	1.189 Head Diameter,Stellite Face,136.20mm Overall Length
		2008-09	13313S	1.189 Head Diameter,Stellite Face,102.20mm Overall Length
Keeper	Both	2008-09	121-1098	3 RD Bead Type
Stem Seal	Both	2008-09	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2008-09	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

81 3562cc, (3.6L), DOHC, GAS, FI, 32 Valve, Vin E, PT
1990-91 V8 217 CID

AUD3.6-PT
BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1990-91	122-1250	Positive Type,Viton Material,Metal Clad Style

82 3597cc, (3.6L), DOHC, GAS, FI, 24 Valve, BHK
2007-10 V6 219 CID

AUD3.6-BHK
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2007-10	13310	1.307 Head Diameter,136.36mm Overall Length
		2007-10	13312	1.307 Head Diameter,102.46mm Overall Length
	Exh	2007-10	13311S	1.189 Head Diameter,Stellite Face,136.00mm Overall Length
		2007-10	13313S	1.189 Head Diameter,Stellite Face,102.20mm Overall Length
Keeper	Both	2007-10	121-1098	3 RD Bead Type
Stem Seal	Both	2007-10	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2007-10	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

83 3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CEUA, ""TURBO""
2013-14 V8 243 CID

AUD4.0-CEUA
BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2013-14	13315S	1.333 Head Diameter,Stellite Face
Keeper	Both	2013-14	121-1098	3 RD Bead Type
Stem Seal	Both	2013-14	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-14	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

84 3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CEUC, ""TURBO""
2013-15 V8 243 CID

AUD4.0-CEUC
BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2013-15	13315S	1.333 Head Diameter,Stellite Face
Keeper	Both	2013-15	121-1098	3 RD Bead Type
Stem Seal	Both	2013-15	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-15	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

85 3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CGTA, ""TURBO""
2013-14 V8 243 CID

AUD4.0-CGTA
BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2013-14	13315S	1.333 Head Diameter,Stellite Face
Keeper	Both	2013-14	121-1098	3 RD Bead Type
Stem Seal	Both	2013-14	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-14	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

(Cont'd) **AUDI / PASSENGER CAR**

3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CRDB, ""TURBO"" AUD4.0-CRDB **86**
2014-15 V8 243 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES
Valve	Int	2014-15 13315S	1.333 Head Diameter,Stellite Face
Keeper	Both	2014-15 121-1098	3 RD Bead Type
Stem Seal	Both	2014-15 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2014-15 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CTGA, ""TURBO"" AUD4.0-CTGA **87**
2015-15 V8 243 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES
Valve	Int	2015-15 13315S	1.333 Head Diameter,Stellite Face
Keeper	Both	2015-15 121-1098	3 RD Bead Type
Stem Seal	Both	2015-15 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2015-15 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CTGE, ""TURBO"" AUD4.0-CTGE **88**
2016-18 V8 243 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES
Valve	Int	2016-18 13315S	1.333 Head Diameter,Stellite Face
Keeper	Both	2016-18 121-1098	3 RD Bead Type
Stem Seal	Both	2016-18 122-1363	Positive Type,Viton Material,Metal Clad Style
Lifter	Both	2016-18 VL569	Hydraulic Lash Adjuster Type

3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CTGF, ""TURBO"" AUD4.0-CTGF **89**
2016-18 V8 243 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES
Valve	Int	2016-18 13315S	1.333 Head Diameter,Stellite Face
Keeper	Both	2016-18 121-1098	3 RD Bead Type
Stem Seal	Both	2016-18 122-1363	Positive Type,Viton Material,Metal Clad Style
Lifter	Both	2016-18 VL569	Hydraulic Lash Adjuster Type

3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CWUB, ""TURBO"" AUD4.0-CWUB **90**
2016-18 V8 243 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES
Valve	Int	2016-18 13315S	1.333 Head Diameter,Stellite Face
Keeper	Both	2016-18 121-1098	3 RD Bead Type
Lifter	Both	2016-18 VL569	Hydraulic Lash Adjuster Type

3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CWUC, ""TURBO"" AUD4.0-CWUC **91**
2016-18 V8 243 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES
Valve	Int	2016-18 13315S	1.333 Head Diameter,Stellite Face
Keeper	Both	2016-18 121-1098	3 RD Bead Type
Lifter	Both	2016-18 VL569	Hydraulic Lash Adjuster Type

3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, DDTA, ""TURBO"" AUD4.0-DDTA **92**
2016-18 V8 243 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES
Valve	Int	2016-18 13315S	1.333 Head Diameter,Stellite Face
Keeper	Both	2016-18 121-1098	3 RD Bead Type

AUDI / PASSENGER CAR (Cont'd)

92 3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, DDTA, ""TURBO"" AUD4.0-DDTA
 (cont.) 2016-18 V8 243 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	2016-18	122-1363	Positive Type,Viton Material,Metal Clad Style
Lifter	Both	2016-18	VL569	Hydraulic Lash Adjuster Type

93 4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, BAR AUD4.2-BAR
 2007-10 V8 254 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2007-10	13314	1.333 Head Diameter
	Exh	2007-10	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2007-10	121-1098	3 RD Bead Type
Stem Seal	Both	2007-10	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2007-10	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2007-10	VL569	Hydraulic Lash Adjuster Type

94 4163cc, (4.2L), DOHC, GAS, FI, 40 Valve, BHF AUD4.2-BHF
 2004-09 V8 254 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2004-09	13319S	1.059 Head Diameter,Stellite Face
	Exh	2004-09	13320SN	1.177 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2004-09	121-1098	3 RD Bead Type
Stem Seal	Both	2004-09	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2004-09	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

95 4163cc, (4.2L), DOHC, GAS, FI, 40 Valve, BNK AUD4.2-BNK
 2005-06 V8 254 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2005-05	13319S	1.059 Head Diameter,Stellite Face
	Exh	2005-05	13320SN	1.177 Head Diameter,Stellite Face, Sodium Filled
		2006-06	13314	1.333 Head Diameter
		2006-06	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2005-06	121-1098	3 RD Bead Type
Stem Seal	Both	2005-06	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2005-06	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

96 4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, BVJ AUD4.2-BVJ
 2007-11 V8 254 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2007-11	13314	1.333 Head Diameter
	Exh	2007-11	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2007-11	121-1098	3 RD Bead Type
Stem Seal	Both	2007-11	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2007-11	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2007-11	VL569	Hydraulic Lash Adjuster Type

97 4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, BYH AUD4.2-BYH
 2008-10 V8 254 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES	
Valve	Exh	2008-10	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2008-10	121-1098	3 RD Bead Type
Stem Seal	Both	2008-10	122-1363	Positive Type,Viton Material,Metal Clad Style

(Cont'd) **AUDI / PASSENGER CAR**

4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, BYH AUD4.2-BYH **97**
2008-10 V8 254 CID BORE - 84.5mm/3.33"" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Both	2008-10	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, CAUA AUD4.2-CAUA **98**
2008-12 V8 254 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2008-12	13314	1.333 Head Diameter
	Exh	2008-12	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2008-12	121-1098	3 RD Bead Type
Stem Seal	Both	2008-12	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2008-12	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, CDRA AUD4.2-CDRA **99**
2011-12 V8 254 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES	
Valve	Exh	2011-12	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2011-12	121-1098	3 RD Bead Type
Stem Seal	Both	2011-12	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2011-12	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2011-12	VL569	Hydraulic Lash Adjuster Type

4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, CFSA AUD4.2-CFSA **100**
2013-15 V8 254 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES	
Valve	Exh	2013-15	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2013-15	121-1098	3 RD Bead Type
Stem Seal	Both	2013-15	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-15	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, CNDA AUD4.2-CNDA **101**
2011-15 V8 254 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES	
Valve	Exh	2011-15	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2011-15	121-1098	3 RD Bead Type
Stem Seal	Both	2011-15	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2011-15	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

4172cc, (4.2L), DOHC, GAS, FI, 32 Valve, Vin W, ABH AUD4.2-ABH **102**
1992-94 V8 255 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1992-94	122-1250	Positive Type,Viton Material,Metal Clad Style

4172cc, (4.2L), DOHC, GAS, FI, 32 Valve, Vin G, ABZ AUD4.2-ABZ **103**
1997-99 V8 255 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	1997-99	121-1098	3 RD Bead Type
Stem Seal	Both	1997-99	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1997-99	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

AUDI / PASSENGER CAR (Cont'd)

104 4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, Vin L, AKB
2000-03 V8 255 CID

AUD4.2-AKB
BORE - 84.5mm/3.33"

PART		YEARS	PART NO.	NOTES
Valve	Int	2000-03	13319S	1.059 Head Diameter,Stellite Face
	Exh	2000-03	13320SN	1.177 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2000-03	121-1098	3 RD Bead Type
Stem Seal	Both	2000-03	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2000-03	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

105 4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, Vin L, ART
2000-00 V8 255 CID

AUD4.2-ART
BORE - 84.5mm/3.33"

PART		YEARS	PART NO.	NOTES
Valve	Int	2000-00	13319S	1.059 Head Diameter,Stellite Face
	Exh	2000-00	13320SN	1.177 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2000-00	121-1098	3 RD Bead Type
Stem Seal	Both	2000-00	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2000-00	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

106 4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, Vin L, AUX
2001-03 V8 255 CID

AUD4.2-AUX
BORE - 84.5mm/3.33"

PART		YEARS	PART NO.	NOTES
Valve	Int	2001-03	13319S	1.059 Head Diameter,Stellite Face
	Exh	2001-03	13320SN	1.177 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2001-03	121-1098	3 RD Bead Type
Stem Seal	Both	2001-03	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2001-03	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

107 4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, Vin U, AYS
2001-03 V8 255 CID

AUD4.2-AYS
BORE - 84.5mm/3.33"

PART		YEARS	PART NO.	NOTES
Valve	Int	2001-03	13319S	1.059 Head Diameter,Stellite Face
	Exh	2001-03	13320SN	1.177 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2001-03	121-1098	3 RD Bead Type
Stem Seal	Both	2001-03	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2001-03	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

108 4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, Vin L, AWN
2001-04 V8 255 CID

AUD4.2-AWN
BORE - 84.5mm/3.33"

PART		YEARS	PART NO.	NOTES
Valve	Int	2001-04	13319S	1.059 Head Diameter,Stellite Face
	Exh	2001-04	13320SN	1.177 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2001-04	121-1098	3 RD Bead Type
Stem Seal	Both	2001-04	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2001-04	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

109 4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, BAS
2003-05 V8 255 CID

AUD4.2-BAS
BORE - 84.5mm/3.33"

PART		YEARS	PART NO.	NOTES
Valve	Int	2003-05	13319S	1.059 Head Diameter,Stellite Face
	Exh	2003-05	13320SN	1.177 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2003-05	121-1098	3 RD Bead Type
Stem Seal	Both	2003-05	122-1363	Positive Type,Viton Material,Metal Clad Style

(Cont'd) **AUDI / PASSENGER CAR**

4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, BAS **AUD4.2-BAS 109**
2003-05 V8 255 CID BORE - 84.5mm/3.33"" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Both	2003-05 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, Vin U, BBD **AUD4.2-BBD 110**
2002-03 V8 255 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2002-03 13319S 2002-03 13320SN	1.059 Head Diameter,Stellite Face 1.177 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2002-03 121-1098	3 RD Bead Type
Stem Seal	Both	2002-03 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2002-03 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, BFM **AUD4.2-BFM 111**
2004-05 V8 255 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2004-05 13319S 2004-05 13320SN	1.059 Head Diameter,Stellite Face 1.177 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2004-05 121-1098	3 RD Bead Type
Stem Seal	Both	2004-05 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2004-05 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, BGK **AUD4.2-BGK 112**
2006-06 V8 255 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2006-06 13319S 2006-06 13320SN	1.059 Head Diameter,Stellite Face 1.177 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2006-06 121-1098	3 RD Bead Type
Stem Seal	Both	2006-06 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2006-06 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

4172cc, (4.2L), DOHC, GAS, FI, 32 Valve, BNS **AUD4.2-BNS 113**
2007-08 V8 255 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2007-08 13319S 2007-08 13320SN	1.059 Head Diameter,Stellite Face 1.177 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2007-08 121-1098	3 RD Bead Type
Stem Seal	Both	2007-08 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2007-08 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

5204cc, (5.2L), DOHC, GAS, FI, 40 Valve, BSM **AUD5.2-BSM 114**
2007-09 V10 318 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2007-09 13314 2007-09 13316SN	1.333 Head Diameter 1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2007-09 121-1098	3 RD Bead Type
Stem Seal	Both	2007-09 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2007-09 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2007-09 VL569	Hydraulic Lash Adjuster Type

AUDI / PASSENGER CAR (Cont'd)

115 5204cc, (5.2L), DOHC, GAS, FI, 40 Valve, BUJ AUD5.2-BUJ
2010-12 V10 318 CID BORE - 84.5mm/3.33'''

PART	YEARS	PART NO.	NOTES
Valve	Exh	2010-12 13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2010-12 121-1098	3 RD Bead Type
Stem Seal	Both	2010-12 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2010-12 140-3159BR	0.2362 I.D., 1.415 Length,0.4355 O.D.

116 5204cc, (5.2L), DOHC, GAS, FI, 40 Valve, BXA AUD5.2-BXA
2007-11 V10 318 CID BORE - 84.5mm/3.33'''

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2007-11 13314 2007-11 13316SN	1.333 Head Diameter 1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2007-11 121-1098	3 RD Bead Type
Stem Seal	Both	2007-11 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2007-11 140-3159BR	0.2362 I.D., 1.415 Length,0.4355 O.D.
Lifter	Both	2007-11 VL569	Hydraulic Lash Adjuster Type

117 5204cc, (5.2L), DOHC, GAS, FI, 40 Valve, CMPA AUD5.2-CMPA
2012-12 V10 318 CID BORE - 84.5mm/3.33'''

PART	YEARS	PART NO.	NOTES
Valve	Exh	2012-12 13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2012-12 121-1098	3 RD Bead Type
Stem Seal	Both	2012-12 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2012-12 140-3159BR	0.2362 I.D., 1.415 Length,0.4355 O.D.

118 5204cc, (5.2L), DOHC, GAS, FI, 40 Valve, CTPA AUD5.2-CTPA
2014-15 V10 318 CID BORE - 84.5mm/3.33'''

PART	YEARS	PART NO.	NOTES
Valve	Exh	2014-15 13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2014-15 121-1098	3 RD Bead Type
Stem Seal	Both	2014-15 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2014-15 140-3159BR	0.2362 I.D., 1.415 Length,0.4355 O.D.

119 5204cc, (5.2L), DOHC, GAS, FI, 40 Valve, CTYA AUD5.2-CTYA
2014-15 V10 318 CID BORE - 84.5mm/3.33'''

PART	YEARS	PART NO.	NOTES
Valve	Exh	2014-15 13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2014-15 121-1098	3 RD Bead Type
Stem Seal	Both	2014-15 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2014-15 140-3159BR	0.2362 I.D., 1.415 Length,0.4355 O.D.

120 5998cc, (6.0L), DOHC, GAS, FI, 48 Valve, BSB AUD6.0-BSB
2005-09 W12 366 CID BORE - 83.82mm/3.30'''

PART	YEARS	PART NO.	NOTES
Keeper	Both	2005-09 121-1098	3 RD Bead Type
Stem Seal	Both	2005-09 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2005-09 140-3159BR	0.2362 I.D., 1.415 Length,0.4355 O.D.

(Cont'd) **AUDI / PASSENGER CAR**

6229cc, (6.3L), DOHC, GAS, FI, 48 Valve, CEJA
2013-14 W12 384 CID

AUD6.3-CEJA 121
BORE - 86.1mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2013-14	13312	1.307 Head Diameter,102.46mm Overall Length
	Exh	2013-14	13313S	1.189 Head Diameter,Stellite Face,102.20mm Overall Length
Keeper	Both	2013-14	121-1098	3 RD Bead Type
Stem Seal	Both	2013-14	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-14	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

6229cc, (6.3L), DOHC, GAS, FI, 48 Valve, CTNA
2015-16 W12 384 CID

AUD6.3-CTNA 122
BORE - 86.1mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2015-16	13312	1.307 Head Diameter,102.46mm Overall Length
	Exh	2015-16	13313S	1.189 Head Diameter,Stellite Face,102.20mm Overall Length
Keeper	Both	2015-16	121-1098	3 RD Bead Type
Stem Seal	Both	2015-16	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2015-16	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

BMW / PASSENGER CAR

Engine	Models	Line No.
4 Cylinder		
1766cc, (1.8L), SOHC, GAS, FI, 8 Valve, M10 (1980-85)	318i, 320i	1
1796cc, (1.8L), DOHC, GAS, FI, 16 Valve, M42 (1991-95)	318i, 318is, 318ti	2
1895cc, (1.9L), DOHC, GAS, FI, 16 Valve, M44 (1996-99)	318i, 318is, 318ti, Z3	3
1990cc, (2.0L), SOHC, GAS, CARB, FI, 8 Valve, M10 (1975-79)	2002, 320i	4
6 Cylinder		
2494cc, (2.5L), SOHC, GAS, FI, 12 Valve, M20 (1987-93)	325i, 325is, 325iX, 525i	5
2494cc, (2.5L), DOHC, GAS, FI, 24 Valve, M50, M50TU (1991-95)	325i, 325is, 525i, 525iT	6
2494cc, (2.5L), DOHC, GAS, FI, 24 Valve, M52 (1998-00)	323Ci, 323i, 323is, Z3	7
2693cc, (2.7L), SOHC, GAS, FI, 12 Valve, M20 (1982-88)	325, 325e, 325es, 528e	8
2788cc, (2.8L), SOHC, GAS, CARB, FI, 12 Valve, M30 (1969-81)	2.8 Bavaria, 2800, 2800CS, 528i, Bavaria	9
2793cc, (2.8L), DOHC, GAS, FI, 24 Valve, M52 (1996-00)	328Ci, 328i, 328is, 528i, Z3	10
2985cc, (3.0L), SOHC, GAS, CARB, FI, 12 Valve, M30 (1972-77)	3.0CS, 3.0CSi, 3.0S, 3.0Si, 530i, 630CSi, Bavaria	11
2990cc, (3.0L), DOHC, GAS, FI, 24 Valve, S50 (1995-95)	M3	12
3152cc, (3.2L), DOHC, GAS, FI, 24 Valve, S52 (1996-00)	M3, Z3	13
3210cc, (3.2L), SOHC, GAS, FI, 12 Valve, M30 (1978-84)	533i, 633CSi, 733i	14
3430cc, (3.5L), SOHC, GAS, FI, 12 Valve, M30 (1985-93)	535i, 535is, 635CSi, 735i, 735iL, L6, L7	15
12 Cylinder		
4988cc, (5.0L), SOHC, GAS, FI, 24 Valve, M70 (1988-94)	750iL, 850Ci, 850i	16
5379cc, (5.4L), SOHC, GAS, FI, 24 Valve, M73, M73N (1995-01)	750iL, 850Ci	17
5576cc, (5.6L), SOHC, GAS, FI, 24 Valve, S70 (1994-95)	850CSi	18

BMW / PASSENGER CAR (Cont'd)

1	1766cc, (1.8L), SOHC, GAS, FI, 8 Valve, M10			1.8-M10
	1980-85	L4	107 CID	BORE - 89mm/3.50"
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1980-85	SB1625-63	1 $\frac{5}{8}$ O.D., 1.345T I.D., 0.2900 Depth
2	1796cc, (1.8L), DOHC, GAS, FI, 16 Valve, M42			1.8-M42
	1991-95	L4	110 CID	BORE - 84mm/3.31"
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1991-95	SB1375-55	1 $\frac{3}{8}$ O.D., 1.120 I.D., 0.3250 Depth
	Exh	1991-95	SB1312-64	1 $\frac{5}{16}$ O.D., 1.045 I.D., 0.3160 Depth
Valve	Int	1992-95	10695	1.299 Head Diameter, 0.2349 Stem Dia.
	Exh	1992-95	10696S	1.198 Head Diameter, Stellite Face, 0.2349 Stem Dia.
3	1895cc, (1.9L), DOHC, GAS, FI, 16 Valve, M44			1.9-M44
	1996-99	L4	116 CID	BORE - 85mm/3.35"
PART	YEARS	PART NO.	NOTES	
Valve	Int	1996-99	10695	1.299 Head Diameter
	Exh	1996-99	10696S	1.198 Head Diameter, Stellite Face
4	1990cc, (2.0L), SOHC, GAS, CARB, FI, 8 Valve, M10			2.0-M10
	1975-79	L4	121 CID	BORE - 89mm/3.50"
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1975-79	SB1625-63	1 $\frac{5}{8}$ O.D., 1.345T I.D., 0.2900 Depth
5	2494cc, (2.5L), SOHC, GAS, FI, 12 Valve, M20			2.5-M20
	1987-93	L6	152 CID	BORE - 84mm/3.31"
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1987-93	SB1750-60	1 $\frac{3}{4}$ O.D., 1.437T I.D., 0.3020 Depth
	Exh	1987-93	SB1500-62	1 $\frac{1}{2}$ O.D., 1.220T I.D., 0.3100 Depth
Valve	Int	1987-93	10373	1.651 Head Diameter
	Exh	1987-93	10374S	1.415 Head Diameter, Stellite Face
Head Saver Shim		1987-93	230-2000	New Hgt. - 4.9200 - 4.9250; Min. Hgt - 4.9090
6	2494cc, (2.5L), DOHC, GAS, FI, 24 Valve, M50, M50TU			2.5-M50
	1991-95	L6	152 CID	BORE - 84mm/3.31"
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1991-95	SB1375-55	1 $\frac{3}{8}$ O.D., 1.120 I.D., 0.3250 Depth
	Exh	1991-95	SB1312-64	1 $\frac{5}{16}$ O.D., 1.045 I.D., 0.3160 Depth
Valve	Int	1993-95	10695	1.299 Head Diameter, 0.2349 Stem Dia.
	Exh	1993-95	10696S	1.198 Head Diameter, Stellite Face, 0.2349 Stem Dia.
7	2494cc, (2.5L), DOHC, GAS, FI, 24 Valve, M52			2.5-M52
	1998-00	L6	152 CID	BORE - 84mm/3.31"
PART	YEARS	PART NO.	NOTES	
Valve	Int	1998-00	10695	1.299 Head Diameter
	Exh	1998-00	10696S	1.198 Head Diameter, Stellite Face
8	2693cc, (2.7L), SOHC, GAS, FI, 12 Valve, M20			2.7-M20
	1982-88	L6	164 CID	BORE - 84mm/3.31"
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1986-88	SB1750-60	1 $\frac{3}{4}$ O.D., 1.437T I.D., 0.3020 Depth
	Exh	1986-88	SB1500-62	1 $\frac{1}{2}$ O.D., 1.220T I.D., 0.3100 Depth
Head Saver Shim		1982-88	230-2000	New Hgt. - 4.9350 - 4.9400; Min. Hgt - 4.9090

(Cont'd) **BMW / PASSENGER CAR**

2788cc, (2.8L), SOHC, GAS, CARB, FI, 12 Valve, M30				2.8-M30 9
1969-81	L6	170 CID	BORE - 86mm/3.39"	
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1969-81	SB1625-63	1 $\frac{5}{8}$ O.D., 1.345T I.D., 0.2900 Depth
2793cc, (2.8L), DOHC, GAS, FI, 24 Valve, M52				2.8-M52 10
1996-00	L6	170 CID	BORE - 84mm/3.31"	
PART	YEARS	PART NO.	NOTES	
Valve	Int	1996-00	10695	1.299 Head Diameter
	Exh	1996-00	10696S	1.198 Head Diameter, Stellite Face
2985cc, (3.0L), SOHC, GAS, CARB, FI, 12 Valve, M30				3.0-M30 11
1972-77	L6	182 CID	BORE - 89mm/3.50"	
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1972-77	SB1625-63	1 $\frac{5}{8}$ O.D., 1.345T I.D., 0.2900 Depth
2990cc, (3.0L), DOHC, GAS, FI, 24 Valve, S50				3.0-S50 12
1995-95	L6	182 CID	BORE - 84mm/3.31"	
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1995-95	SB1375-55	1 $\frac{3}{8}$ O.D., 1.120 I.D., 0.3250 Depth
	Exh	1995-95	SB1312-64	1 $\frac{5}{16}$ O.D., 1.045 I.D., 0.3160 Depth
Valve	Int	1995-95	10695	1.299 Head Diameter
	Exh	1995-95	10696S	1.198 Head Diameter, Stellite Face
3152cc, (3.2L), DOHC, GAS, FI, 24 Valve, S52				3.2-S52 13
1996-00	L6	192 CID	BORE - 86.4mm/3.40"	
PART	YEARS	PART NO.	NOTES	
Valve	Int	1996-00	10695	1.299 Head Diameter
	Exh	1996-00	10696S	1.198 Head Diameter, Stellite Face
3210cc, (3.2L), SOHC, GAS, FI, 12 Valve, M30				3.2-M30 14
1978-84	L6	196 CID	BORE - 88.9mm/3.50"	
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1978-84	SB1625-63	1 $\frac{5}{8}$ O.D., 1.345T I.D., 0.2900 Depth
3430cc, (3.5L), SOHC, GAS, FI, 12 Valve, M30				3.5-M30 15
1985-93	L6	209 CID	BORE - 92mm/3.62"	
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1985-89	SB1625-63	1 $\frac{5}{8}$ O.D., 1.345T I.D., 0.2900 Depth
		1987-93	SB1625-56	1 $\frac{5}{8}$ O.D., 1.298T I.D., 0.3170 Depth, +10, +30 O/S Available
4988cc, (5.0L), SOHC, GAS, FI, 24 Valve, M70				5.0-M70 16
1988-94	V12	304 CID	BORE - 84mm/3.31"	
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-94	SB1750-60	1 $\frac{3}{4}$ O.D., 1.437T I.D., 0.3020 Depth
	Exh	1988-94	SB1500-63	1 $\frac{1}{2}$ O.D., 1.210T I.D., 0.3450 Depth
5379cc, (5.4L), SOHC, GAS, FI, 24 Valve, M73, M73N				5.4-M73 17
1995-01	V12	328 CID	BORE - 85mm/3.35"	
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1995-98	SB1750-60	1 $\frac{3}{4}$ O.D., 1.437T I.D., 0.3020 Depth
	Exh	1995-98	SB1500-53	1 $\frac{1}{2}$ O.D., 1.180T I.D., 0.3070 Depth
5576cc, (5.6L), SOHC, GAS, FI, 24 Valve, S70				5.6-S70 18
1994-95	V12	340 CID	BORE - 86mm/3.39"	
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1994-95	SB1750-60	1 $\frac{3}{4}$ O.D., 1.437T I.D., 0.3020 Depth

BMW / PASSENGER CAR (Cont'd)

18 5576cc, (5.6L), SOHC, GAS, FI, 24 Valve, S70 5.6-S70
 (cont.) 1994-95 V12 340 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1994-95	SB1500-53 | 1½ O.D., 1.180T I.D., 0.3070 Depth

BUDA / HEAVY DUTY

Engine	Models	Line No.
4 Cylinder		
153 C.I., (2.5L), 4B153, Diesel, OHV, 8 Valve		1
153 C.I., (2.5L), 4BD153, Diesel, OHV, 8 Valve		2
153 C.I., (2.5L), 4BDMG153, Diesel, OHV, 8 Valve		3
153 C.I., (2.5L), 4BDMR153, Diesel, OHV, 8 Valve		4
153 C.I., (2.5L), 4D153, Diesel, OHV, 8 Valve		5
153 C.I., (2.5L), 4DA153, Diesel, OHV, 8 Valve		6
153 C.I., (2.5L), 4DME153, Diesel, OHV, 8 Valve		7
153 C.I., (2.5L), 4G153, Gas, OHV, 8 Valve		8
153 C.I., (2.5L), 4G153, LPG, OHV, 8 Valve		9
182 C.I., (3.0L), 4B182, Diesel, OHV, 8 Valve		10
182 C.I., (3.0L), 4BD182, Diesel, OHV, 8 Valve		11
182 C.I., (3.0L), 4BDMR182, Diesel, OHV, 8 Valve		12
193 C.I., (3.2L), 4DT196, Diesel, OHV, 8 Valve		13
196 C.I., (3.2L), 4DTM196, Diesel, OHV, 8 Valve		14
212 C.I., (3.5L), 4DT212, Diesel, OHV, 8 Valve		15
212 C.I., (3.5L), 4DTM212, Diesel, OHV, 8 Valve		16
6 Cylinder		
230 C.I., (3.8L), 6B230, Diesel, OHV, 12 Valve		17
230 C.I., (3.8L), 6BD230, Diesel, OHV, 12 Valve		18
230 C.I., (3.8L), 6BDM230, Diesel, OHV, 12 Valve		19
230 C.I., (3.8L), 6BDMR230, Diesel, OHV, 12 Valve		20
230 C.I., (3.8L), 6D230, Diesel, OHV, 12 Valve		21
230 C.I., (3.8L), 6DA230, Diesel, OHV, 12 Valve		22
230 C.I., (3.8L), 6G230, Gas, OHV, 12 Valve		23
230 C.I., (3.8L), 6G230, LPG, OHV, 12 Valve		24
273 C.I., (4.5L), 6DA273, Diesel, OHV, 12 Valve		25
273 C.I., (4.5L), 6B273, Diesel, OHV, 12 Valve		26
273 C.I., (4.5L), 6BD273, Diesel, OHV, 12 Valve		27
273 C.I., (4.5L), D273, Diesel, OHV, 12 Valve		28
278 C.I., (4.6L), 6DT278, Diesel, OHV, 12 Valve		29
294 C.I., (4.8L), 6DT294, Diesel, OHV, 12 Valve		30
317 C.I., (5.2L), 6DT317, Diesel, OHV, 12 Valve		31
317 C.I., (5.2L), 6DTM317, Diesel, OHV, 12 Valve		32
317 C.I., (5.2L), 6DTMR317, Diesel, OHV, 12 Valve		33
844 C.I., (13.8L), 6DC-844, Diesel, OHV, 12 Valve	HD16, HD16A, HD16AC, HD21, HD21AC	34

(Cont'd) BUDA / HEAVY DUTY**153 C.I., (2.5L), 4B153, Diesel, OHV, 8 Valve**
L4 153 CID**4B153 1**
BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-1	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int	00311	1.511 Head Diameter
	Exh	00310	1.281 Head Diameter
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1703	0.3125 I.D., 2.563 Length, 0.5640 O.D.
Spring	Both	160-1635	2.090 Length, W/Damper

153 C.I., (2.5L), 4BD153, Diesel, OHV, 8 Valve
L4 153 CID**4BD153 2**
BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-1	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material
Guide	Both	140-1703	0.3125 I.D., 2.563 Length, 0.5640 O.D.

153 C.I., (2.5L), 4BDMG153, Diesel, OHV, 8 Valve
L4 153 CID**4BDMG153 3**
BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-1	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material
Guide	Both	140-1703	0.3125 I.D., 2.563 Length, 0.5640 O.D.

153 C.I., (2.5L), 4BDMR153, Diesel, OHV, 8 Valve
L4 153 CID**4BDMR153 4**
BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-1	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material
Guide	Both	140-1703	0.3125 I.D., 2.563 Length, 0.5640 O.D.

153 C.I., (2.5L), 4D153, Diesel, OHV, 8 Valve
L4 153 CID**4D153 5**
BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-3	1 $\frac{1}{2}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{1}{4}$ Depth, +3 O/S Available
	Exh	SB1437-2	1 $\frac{7}{16}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Int	140-1852	0.3130 I.D., 2.656 Length, 0.5640 O.D.
	Exh	140-1851	0.3130 I.D., 2.250 Length, 0.5640 O.D.

153 C.I., (2.5L), 4DA153, Diesel, OHV, 8 Valve
L4 153 CID**4DA153 6**
BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-3	1 $\frac{1}{2}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{1}{4}$ Depth, +3 O/S Available
	Exh	SB1437-2	1 $\frac{7}{16}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

BUDA / HEAVY DUTY (Cont'd)

6 153 C.I., (2.5L), 4DA153, Diesel, OHV, 8 Valve 4DA153
(cont.) L4 153 CID BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Guide	Int	140-1852	0.3130 I.D.,2.656 Length,0.5640 O.D.
	Exh	140-1851	0.3130 I.D.,2.250 Length,0.5640 O.D.

7 153 C.I., (2.5L), 4DME153, Diesel, OHV, 8 Valve 4DME153
L4 153 CID BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-1	1 $\frac{5}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth,+30 O/S Available, Also Available In Non-Magnetic (N) Material

8 153 C.I., (2.5L), 4G153, Gas, OHV, 8 Valve 4G153G
L4 153 CID BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-1	1 $\frac{9}{16}$ O.D.,1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-2	1 $\frac{7}{16}$ O.D.,1 $\frac{7}{32}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	01073	1.438 Head Diameter
	Exh	00989	1.375 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Int	140-1943	0.3445 I.D.,2.250 Length,0.5640 O.D.
	Exh	140-1944	0.3445 I.D.,2.125 Length,0.5640 O.D.

9 153 C.I., (2.5L), 4G153, LPG, OHV, 8 Valve 4G153LP
L4 153 CID BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-1	1 $\frac{9}{16}$ O.D.,1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-2	1 $\frac{7}{16}$ O.D.,1 $\frac{7}{32}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	01073	1.438 Head Diameter
	Exh	00989	1.375 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Int	140-1943	0.3445 I.D.,2.250 Length,0.5640 O.D.
	Exh	140-1944	0.3445 I.D.,2.125 Length,0.5640 O.D.

10 182 C.I., (3.0L), 4B182, Diesel, OHV, 8 Valve 4B182
L4 182 CID BORE - 95.25mm/3.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-1	1 $\frac{5}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth,+30 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int	00311	1.511 Head Diameter
	Exh	00310	1.281 Head Diameter
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1703	0.3125 I.D.,2.563 Length,0.5640 O.D.
Spring	Both	160-1635	2.090 Length,W/Damper

(Cont'd) BUDA / HEAVY DUTY

182 C.I., (3.0L), 4BD182, Diesel, OHV, 8 Valve **4BD182 11**
 L4 182 CID BORE - 95.25mm/3.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-1	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material
Guide	Both	140-1703	0.3125 I.D., 2.563 Length, 0.5640 O.D.

182 C.I., (3.0L), 4BDMR182, Diesel, OHV, 8 Valve **4BDMR182 12**
 L4 182 CID BORE - 95.25mm/3.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-1	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material
Guide	Both	140-1703	0.3125 I.D., 2.563 Length, 0.5640 O.D.

193 C.I., (3.2L), 4DT196, Diesel, OHV, 8 Valve **4DT196 13**
 L4 193 CID BORE - 92mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

196 C.I., (3.2L), 4DTM196, Diesel, OHV, 8 Valve **4DTM196 14**
 L4 196 CID BORE - 92mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

212 C.I., (3.5L), 4DT212, Diesel, OHV, 8 Valve **4DT212 15**
 L4 212 CID BORE - 92mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

212 C.I., (3.5L), 4DTM212, Diesel, OHV, 8 Valve **4DTM212 16**
 L4 212 CID BORE - 92mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

230 C.I., (3.8L), 6B230, Diesel, OHV, 12 Valve **6B230 17**
 L6 230 CID BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-1	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int	00311	1.511 Head Diameter

BUDA / HEAVY DUTY (Cont'd)

17 230 C.I., (3.8L), 6B230, Diesel, OHV, 12 Valve 6B230
(cont.) L6 230 CID BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve	Exh	00310	1.281 Head Diameter
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1703	0.3125 I.D.,2.563 Length,0.5640 O.D.
Spring	Both	160-1635	2.090 Length,W/Damper

18 230 C.I., (3.8L), 6BD230, Diesel, OHV, 12 Valve 6BD230
L6 230 CID BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-1	
Guide	Both	140-1703	0.3125 I.D.,2.563 Length,0.5640 O.D.

19 230 C.I., (3.8L), 6BDM230, Diesel, OHV, 12 Valve 6BDM230
L6 230 CID BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-1	

20 230 C.I., (3.8L), 6BDMR230, Diesel, OHV, 12 Valve 6BDMR230
L6 230 CID BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-1	
Guide	Both	140-1703	0.3125 I.D.,2.563 Length,0.5640 O.D.

21 230 C.I., (3.8L), 6D230, Diesel, OHV, 12 Valve 6D230
L6 230 CID BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-3	1 $\frac{1}{2}$ O.D.,1 $\frac{1}{4}$ I.D., $\frac{1}{4}$ Depth,+3 O/S Available
	Exh	SB1437-2	
Guide	Int	140-1852	0.3130 I.D.,2.656 Length,0.5640 O.D.
	Exh	140-1851	0.3130 I.D.,2.250 Length,0.5640 O.D.

22 230 C.I., (3.8L), 6DA230, Diesel, OHV, 12 Valve 6DA230
L6 230 CID BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-3	1 $\frac{1}{2}$ O.D.,1 $\frac{1}{4}$ I.D., $\frac{1}{4}$ Depth,+3 O/S Available
	Exh	SB1437-2	
Guide	Int	140-1852	0.3130 I.D.,2.656 Length,0.5640 O.D.
	Exh	140-1851	0.3130 I.D.,2.250 Length,0.5640 O.D.

(Cont'd) BUDA / HEAVY DUTY**230 C.I., (3.8L), 6G230, Gas, OHV, 12 Valve**
L6 230 CID**6G230G 23**
BORE - 95.25mm/3.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-2	1 ⁷ / ₁₆ O.D., 1 ⁷ / ₃₂ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	01073	1.438 Head Diameter
	Exh	00989	1.375 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Int	140-1943	0.3445 I.D., 2.250 Length, 0.5640 O.D.
	Exh	140-1944	0.3445 I.D., 2.125 Length, 0.5640 O.D.

230 C.I., (3.8L), 6G230, LPG, OHV, 12 Valve
L6 230 CID**6G230LP 24**
BORE - 95.25mm/3.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-2	1 ⁷ / ₁₆ O.D., 1 ⁷ / ₃₂ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	01073	1.438 Head Diameter
	Exh	00989	1.375 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Int	140-1943	0.3445 I.D., 2.250 Length, 0.5640 O.D.
	Exh	140-1944	0.3445 I.D., 2.125 Length, 0.5640 O.D.

273 C.I., (4.5L), 6DA273, Diesel, OHV, 12 Valve
L6 273 CID**6DA273 25**
BORE - 95.25mm/3.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ⁹ / ₁₆ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1500-3	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., ¹ / ₄ Depth, +3 O/S Available
Guide	Both	140-1703	0.3125 I.D., 2.563 Length, 0.5640 O.D.

273 C.I., (4.5L), 6B273, Diesel, OHV, 12 Valve
L6 273 CID**6B273 26**
BORE - 95.25mm/3.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-1	1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int	00311	1.511 Head Diameter
	Exh	00310	1.281 Head Diameter
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1703	0.3125 I.D., 2.563 Length, 0.5640 O.D.
Spring	Both	160-1635	2.090 Length, W/Damper

273 C.I., (4.5L), 6BD273, Diesel, OHV, 12 Valve
L6 273 CID**6BD273 27**
BORE - 95.25mm/3.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-1	1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material
Guide	Both	140-1703	0.3125 I.D., 2.563 Length, 0.5640 O.D.

BUDA / HEAVY DUTY (Cont'd)**28** 273 C.I., (4.5L), D273, Diesel, OHV, 12 Valve

D273

L6 273 CID

BORE - 95.25mm/3.70"

PART	PART NO.		NOTES
Valve Seat Insert	Int	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ⁹ / ₁₆ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1500-3	
Guide	Both	140-1703	0.3125 I.D., 2.563 Length, 0.5640 O.D.

29 278 C.I., (4.6L), 6DT278, Diesel, OHV, 12 Valve

6DT278

L6 278 CID

BORE - 92mm/3.60"

PART	PART NO.		NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	
			1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

30 294 C.I., (4.8L), 6DT294, Diesel, OHV, 12 Valve

6DT294

L6 294 CID

BORE - 92mm/3.60"

PART	PART NO.		NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	
			1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

31 317 C.I., (5.2L), 6DT317, Diesel, OHV, 12 Valve

6DT317

L6 317 CID

BORE - 92mm/3.60"

PART	PART NO.		NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	
			1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

32 317 C.I., (5.2L), 6DTM317, Diesel, OHV, 12 Valve

6DTM317

L6 317 CID

BORE - 92mm/3.60"

PART	PART NO.		NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	
			1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

33 317 C.I., (5.2L), 6DTMR317, Diesel, OHV, 12 Valve

6DTMR317

L6 317 CID

BORE - 92mm/3.60"

PART	PART NO.		NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	
			1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

34 844 C.I., (13.8L), 6DC-844, Diesel, OHV, 12 Valve

6DC 844

L6 844 CID

BORE - 133.4mm/5.25"

PART	PART NO.		NOTES
Valve Seat Insert	Int	SB2375-2	2 ³ / ₈ O.D., 2.000 I.D., 9/32 Depth
	Exh	SB2250-13	
Guide	Both	140-1703	0.3125 I.D., 2.563 Length, 0.5640 O.D.

CASE / HEAVY DUTY

Engine	Models	Line No.
4 Cylinder		
124 C.I., (2.0L), F124, Gas, OHV, 8 Valve, ""Continental""	V, VA, VC, VI, VO	1
126 C.I., (2.1L), G126, Gas, OHV, 8 Valve	B20	2
133 C.I., (2.2L), FC, Gas, OHV, 8 Valve, ""Waukesha""	R, RC, RO	3
148 C.I., (2.4L), G148, Gas, OHV, 8 Valve		4
148 C.I., (2.4L), G148B, Gas, OHV, 8 Valve		5
154 C.I., (2.5L), G154, Gas, OHV, 8 Valve	S, SC Series	6
157 C.I., (2.6L), GD157, Diesel, OHV, 8 Valve, ""300 Continental""		7
159 C.I., (2.6L), G159, Gas, OHV, 8 Valve		8
159 C.I., (2.6L), G159, LPG, OHV, 8 Valve		9
164 C.I., (2.7L), G164, Gas, OHV, 8 Valve		10
164 C.I., (2.7L), G164, LPG, OHV, 8 Valve		11
188 C.I., (3.1L), G188B, Gas, OHV, 8 Valve		12
188 C.I., (3.1L), G188D, Diesel, OHV, 8 Valve		13
188 C.I., (3.1L), G188, LPG, OHV, 8 Valve		14
207 C.I., (3.4L), 207D, Diesel, OHV, 8 Valve	450B	15
239 C.I., (3.9L), 4BT3.9, Diesel, OHV, 8 Valve, ""Cummins TURBO""		17
239 C.I., (3.9L), 4B3.9NA, Diesel, OHV, 8 Valve, ""Cummins""		18
239 C.I., (3.9L), B & BT, Diesel, OHV, 8 Valve, ""Cummins N/A & TURBO""		19
251 C.I., (4.1L), 251, Gas, OHV, 8 Valve		20
251 C.I., (4.1L), 251, Diesel, OHV, 8 Valve		21
260 C.I., (4.3L), 260, Gas, OHV, 8 Valve	C, D Series	22
267 C.I., (4.4L), A267D, Diesel, OHV, 8 Valve		23
284 C.I., (4.7L), 284, Gas/LPG, OHV, 8 Valve		24
301 C.I., (4.9L), 301D, Diesel, OHV, 8 Valve		26
336 C.I., (5.5L), A336BDT, Diesel, OHV, 8 Valve, ""TURBO""		27
6 Cylinder		
209 C.I., (3.4L), 209, Gas, OHV, 12 Valve, ""Continental""		16
301 C.I., (4.9L), 301BD, Diesel, OHV, 12 Valve		25
359 C.I., (5.9L), 6B5.9NA/6B5.9TA/6B5.9T, Diesel, OHV, 12 Valve, ""Cummins N/A & TURBO""		28
359 C.I., (5.9L), B & BT, Diesel, OHV, 12 Valve, ""Cummins N/A & TURBO""		29
377 C.I., (6.2L), A377, Gas, OHV, 12 Valve		30
377 C.I., (6.2L), 377D, Diesel, OHV, 12 Valve		31
377 C.I., (6.2L), 377LP, LPG, OHV, 12 Valve		32
401 C.I., (6.6L), A401BD, Diesel, OHV, 12 Valve		33
401 C.I., (6.6L), A401D, Diesel, OHV, 12 Valve		34
451 C.I., (7.4L), 451BD, Diesel, OHV, 12 Valve		35
451 C.I., (7.4L), 451BDT, Diesel, OHV, 12 Valve, ""TURBO""		36
504 C.I., (8.3L), A504BD, Diesel, OHV, 12 Valve		37

CASE / HEAVY DUTY (Cont'd)

Engine	Models	Line No.
6 Cylinder		
504 C.I., (8.3L), A504BDT, Diesel, OHV, 12 Valve, ""TURBO""		38
505 C.I., (8.3L), 6CT/6CTA, Diesel, OHV, 12 Valve, ""Cummins""		39
611 C.I., (10.0L), LTA10, Diesel, OHV, 24 Valve, ""Cummins""		40
855 C.I., (14.0L), NTA 855, Diesel, OHV, 24 Valve, ""Cummins Series BC III""		41

1 124 C.I., (2.0L), F124, Gas, OHV, 8 Valve, ""Continental"" **F124**
 L4 124 CID **BORE - 76.2mm/3.00""**

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh SB1375-3	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int 00810	1.516 Head Diameter, Drilled Stem
	Exh 00170	1.203 Head Diameter, Drilled Stem
	00196	1.328 Head Diameter, Drilled Stem
Keeper	Exh 121-1010	PIN Bead Type, Pin Length 0.5020""; Pin Diameter 0.130""
Guide	Both 140-1620	0.3425 I.D., 2.313 Length, 0.6573 O.D., OEM # F400I213; NOTE: Except Rototype

2 126 C.I., (2.1L), G126, Gas, OHV, 8 Valve **G126**
 L4 126 CID **BORE - 79.3mm/3.125""**

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1437-3	1 $\frac{7}{16}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh SB1348E-1N	1.348 O.D., 1.087 I.D., 0.2000 Depth, +10 O/S Available
	SB1375-25	1 $\frac{3}{8}$ O.D., 1 $\frac{3}{32}$ I.D., 0.2030 Depth, Optional
Valve	Int 00269	1.328 Head Diameter
	Exh 00268	1.203 Head Diameter
Keeper	Both 121-1003	1 SQ Bead Type
Guide	Int 140-1673	0.3434 I.D., 2.688 Length, 0.6571 O.D.
	Exh 140-1872	0.3427 I.D., 2.437 Length, 0.6570 O.D.
Spring	Int 160-1223	2.375 Length, OEM # A30025

3 133 C.I., (2.2L), FC, Gas, OHV, 8 Valve, ""Waukesha"" **FC**
 L4 133 CID **BORE - 82.5mm/3.25""**

PART	PART NO.	NOTES
Valve Seat Insert	Both SB1437-3	1 $\frac{7}{16}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Guide	Both 140-1458	0.3135 I.D., 2.500 Length, 0.5016 O.D.

4 148 C.I., (2.4L), G148, Gas, OHV, 8 Valve **G148**
 L4 148 CID **BORE - 85.7mm/3.375""**

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1437-3	1 $\frac{7}{16}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh SB1348E-1N	1.348 O.D., 1.087 I.D., 0.2000 Depth, +10 O/S Available
	SB1375-25	1 $\frac{3}{8}$ O.D., 1 $\frac{3}{32}$ I.D., 0.2030 Depth, Optional
Valve	Int 00269	1.328 Head Diameter
	Exh 00268	1.203 Head Diameter

(Cont'd) CASE / HEAVY DUTY

148 C.I., (2.4L), G148, Gas, OHV, 8 Valve **G148 4**
 L4 148 CID **BORE - 85.7mm/3.375"** (cont.)

PART		PART NO.	NOTES
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Both	140-1673	0.3434 I.D.,2.688 Length,0.6571 O.D.
Spring	Int	160-1223	2.375 Length,OEM # A30025

148 C.I., (2.4L), G148B, Gas, OHV, 8 Valve **G148B 5**
 L4 148 CID **BORE - 85.7mm/3.375"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-1	1½ O.D.,1¼ I.D.,7/32 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1348E-1N SB1375-25	
Valve	Int	00269	1.328 Head Diameter
	Exh	00268	1.203 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Int	140-1872	0.3427 I.D.,2.437 Length,0.6570 O.D.,NOTE; After S/N 2638707
	Both	140-1673	
Spring	Int	160-1223	2.375 Length,OEM # A30025

154 C.I., (2.5L), G154, Gas, OHV, 8 Valve **G154 6**
 L4 154 CID **BORE - 89mm/3.50"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-1	1½ O.D.,1¼ I.D.,7/32 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-4	
Guide	Both	140-1577	0.3130 I.D.,2.750 Length,0.5645 O.D.,NOTE; After S/N 8027114

157 C.I., (2.6L), GD157, Diesel, OHV, 8 Valve, ""300 Continental"" **GD157 7**
 L4 157 CID **BORE - 85.7mm/3.375"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1437-3	17/16 O.D.,1¾ I.D.,7/32 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1312-1	
Guide	Both	140-1833	0.3432 I.D.,1.813 Length,0.6575 O.D.

159 C.I., (2.6L), G159, Gas, OHV, 8 Valve **G159 8**
 L4 159 CID **BORE - 89mm/3.50"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-1	1½ O.D.,1¼ I.D.,7/32 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-1	
Valve	Int	00682	1.415 Head Diameter
	Exh	00683	1.270 Head Diameter
Guide	Int	140-1872	0.3427 I.D.,2.437 Length,0.6570 O.D.
	Exh	140-1673	
Spring	Both	160-1223	2.375 Length,OEM # A30025

159 C.I., (2.6L), G159, LPG, OHV, 8 Valve **G159LP 9**
 L4 159 CID **BORE - 89mm/3.50"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-1	1½ O.D.,1¼ I.D.,7/32 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

CASE / HEAVY DUTY (Cont'd)

9 159 C.I., (2.6L), G159, LPG, OHV, 8 Valve G159LP
(cont.) L4 159 CID BORE - 89mm/3.50"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1348E-1N	1.348 O.D., 1.087 I.D., 0.2000 Depth, +10 O/S Available
Valve	Int	00682	1.415 Head Diameter
	Exh	00683	1.270 Head Diameter
Guide	Int	140-1872	0.3427 I.D., 2.437 Length, 0.6570 O.D.
	Exh	140-1673	0.3434 I.D., 2.688 Length, 0.6571 O.D.
Spring	Both	160-1223	2.375 Length, OEM # A30025

10 164 C.I., (2.7L), G164, Gas, OHV, 8 Valve G164
L4 164 CID BORE - 90.4mm/3.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-1	1 ¹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1348E-1N	1.348 O.D., 1.087 I.D., 0.2000 Depth, +10 O/S Available
Valve	Int	00269	1.328 Head Diameter
	Exh	00268	1.203 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Int	140-1872	0.3427 I.D., 2.437 Length, 0.6570 O.D.
	Exh	140-1873	0.3427 I.D., 2.844 Length, 0.6575 O.D.
Spring	Int	160-1223	2.375 Length, OEM # A30025

11 164 C.I., (2.7L), G164, LPG, OHV, 8 Valve G164LP
L4 164 CID BORE - 90.4mm/3.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-6	1 ¹ / ₁₆ O.D., 1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1348E-1N	1.348 O.D., 1.087 I.D., 0.2000 Depth, +10 O/S Available
Valve	Int	00269	1.328 Head Diameter
	Exh	00268	1.203 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Int	140-1872	0.3427 I.D., 2.437 Length, 0.6570 O.D.
	Exh	140-1673	0.3434 I.D., 2.688 Length, 0.6571 O.D.
Spring	Int	160-1223	2.375 Length, OEM # A30025

12 188 C.I., (3.1L), G188B, Gas, OHV, 8 Valve G188B
L4 188 CID BORE - 96.84mm/3.80"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1500-3	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., ¹ / ₄ Depth, +3 O/S Available
Guide	Int	140-1874	0.3440 I.D., 3.125 Length, 0.6570 O.D., OEM # G2069
	Exh	140-1873	0.3427 I.D., 2.844 Length, 0.6575 O.D., OEM # G2033
Spring	Int	160-1223	2.375 Length, OEM # A30025

13 188 C.I., (3.1L), G188D, Diesel, OHV, 8 Valve G188D
L4 188 CID BORE - 96.84mm/3.80"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1500-1N	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth
Valve	Int	00691	1.604 Head Diameter, OEM # A38422
	Exh	00690	1.403 Head Diameter, OEM # A38423

(Cont'd) CASE / HEAVY DUTY**188 C.I., (3.1L), G188D, Diesel, OHV, 8 Valve****G188D 13**

L4 188 CID

BORE - 96.84mm/3.80"" (cont.)

PART		PART NO.	NOTES
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style
Guide	Int	140-1875	0.3440 I.D., 3.250 Length, 0.6575 O.D., OEM # G2068
	Exh	140-1874	0.3440 I.D., 3.125 Length, 0.6570 O.D., OEM # G2069
Spring	Both	160-1223	2.375 Length, OEM # A30025

188 C.I., (3.1L), G188, LPG, OHV, 8 Valve**G188LP 14**

L4 188 CID

BORE - 96.84mm/3.80""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1500-1N	1 $\frac{1}{2}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth
Guide	Int	140-1874	0.3440 I.D., 3.125 Length, 0.6570 O.D.
	Exh	140-1873	0.3427 I.D., 2.844 Length, 0.6575 O.D.
Spring	Int	160-1223	2.375 Length, OEM # A30025

207 C.I., (3.4L), 207D, Diesel, OHV, 8 Valve**207D 15**

L4 207 CID

BORE - 101.625mm/4.001""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-2	1 $\frac{1}{16}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1500-1N	1 $\frac{1}{2}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth
Valve	Int	00691	1.604 Head Diameter, OEM # A38422
	Exh	00690	1.403 Head Diameter, OEM # A38423
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style
Guide	Int	140-1875	0.3440 I.D., 3.250 Length, 0.6575 O.D., OEM # G2068
	Exh	140-1874	0.3440 I.D., 3.125 Length, 0.6570 O.D., OEM # G2069
Spring	Both	160-1223	2.375 Length, OEM # A30025

209 C.I., (3.4L), 209, Gas, OHV, 12 Valve, ""Continental""**209 16**

L6 209 CID

BORE - 81mm/3.1875""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-3	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.203 Valve Head Dia.
		SB1437-3	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.328 Valve Head Dia.
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00170	1.203 Head Diameter, Drilled Stem
		00196	1.328 Head Diameter, Drilled Stem
		00210	1.328 Head Diameter, 1 Groove, W/ Rotator
Keeper	Exh	121-1003	1 SQ Bead Type
		121-1010	PIN Bead Type, Pin Length 0.5020""; Pin Diameter 0.130""
Guide	Both	140-1515	0.3427 I.D., 2.563 Length, 0.6573 O.D.

239 C.I., (3.9L), 4BT3.9, Diesel, OHV, 8 Valve, ""Cummins TURBO""**4BT3.9 17**

L4 239 CID

BORE - 102mm/4.015""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1853E-1	1.853 O.D., 1.498T I.D., 0.2730 Depth, OEM # 3906854

CASE / HEAVY DUTY (Cont'd)

17 239 C.I., (3.9L), 4BT3.9, Diesel, OHV, 8 Valve, ""Cummins TURBO"" 4BT3.9
 (cont.) L4 239 CID BORE - 102mm/4.015""

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1722E-1	1.722 O.D., 1.357T I.D., 0.2650 Depth, OEM # 3904105
Valve	Int	01665	1.772 Head Diameter, OEM #3920867
	Exh	01664	1.654 Head Diameter, OEM #3920868
Keeper	Both	121-1079	1 RD Bead Type, OEM # 3900250
Stem Seal	Both	122-1269	Positive Type, Viton Material, Ring & Band Style, Orange Color Seal, OEM # 3921640
Guide	Int	140-8177	0.3162 I.D., 2.382 Length, 0.5528 O.D., OEM #3904408
		140-8177SA	0.3162 I.D., 2.382 Length, 0.5528 O.D., ""Special Alloy"", For Ultra Low Sulfur Diesel
	Exh	140-8178	0.3160 I.D., 2.052 Length, 0.5528 O.D., OEM #3904409
		140-8178SA	0.3160 I.D., 2.052 Length, 0.5528 O.D., ""Special Alloy"", For Ultra Low Sulfur Diesel
	Both	140-8277	0.3162 I.D., 2.500 Length, 0.4393 O.D., W/O Seal Boss, Universal Length
Spring	Both	160-1379	2.385 Length, OEM # 3926700
Lifter	Both	VL156	Mechanical Type, OEM # 3961623
Push Rod	Both	190-1530	10.910 Length

18 239 C.I., (3.9L), 4B3.9NA, Diesel, OHV, 8 Valve, ""Cummins"" 4B3.9NA
L4 239 CID BORE - 102mm/4.015""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1853E-1	1.853 O.D., 1.498T I.D., 0.2730 Depth, OEM # 3906854
	Exh	SB1722E-1	1.722 O.D., 1.357T I.D., 0.2650 Depth, OEM # 3904105
Valve	Int	01665	1.772 Head Diameter, OEM # 3802355
	Exh	01664	1.654 Head Diameter, OEM # 3802356
Keeper	Both	121-1079	1 RD Bead Type, OEM # 3900250
Stem Seal	Both	122-1053	Positive Type, Viton Material, Ring & Band Style, Black Color Seal, OEM # 3901097
Guide	Int	140-8177	0.3162 I.D., 2.382 Length, 0.5528 O.D., OEM # 3904408
		140-8177SA	0.3162 I.D., 2.382 Length, 0.5528 O.D., ""Special Alloy"", For Ultra Low Sulfur Diesel
	Exh	140-8178	0.3160 I.D., 2.052 Length, 0.5528 O.D., OEM # 3904409
		140-8178SA	0.3160 I.D., 2.052 Length, 0.5528 O.D., ""Special Alloy"", For Ultra Low Sulfur Diesel
	Both	140-8277	0.3162 I.D., 2.500 Length, 0.4393 O.D., W/O Seal Boss, Universal Length
Spring	Both	160-1348	2.235 Length, OEM # 3900276
Lifter	Both	VL156	Mechanical Type, OEM # 3931623
Push Rod	Both	190-1530	10.910 Length

19 239 C.I., (3.9L), B & BT, Diesel, OHV, 8 Valve, ""Cummins N/A & TURBO"" 390
L4 239 CID BORE - 102mm/4.015""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1853E-1	1.853 O.D., 1.498T I.D., 0.2730 Depth, OEM # 3906854
		SB1875-8	1 7/8 O.D., 1 1/2 T I.D., 7/32 Depth, Universal Size Seat For Head W/O OEM Seat
	Exh	SB1722E-1	1.722 O.D., 1.357T I.D., 0.2650 Depth, OEM # 3904105
		SB1750-7	1 3/4 O.D., 1 1/8 I.D., 7/32 Depth, Universal Size Seat For Head W/O OEM Seat
Valve	Int	01665	1.772 Head Diameter, OEM # 3802355, W/ 30 Degree Seat
	Exh	01664	1.654 Head Diameter, OEM # 3802356, W/ 45 Degree Seat
		01862	1.654 Head Diameter, W/ 20 Degree Seat, Natural Gas
Keeper	Both	121-1079	1 RD Bead Type, OEM # 3900250

(Cont'd) CASE / HEAVY DUTY

239 C.I., (3.9L), B & BT, Diesel, OHV, 8 Valve, ""Cummins N/A & TURBO"" **390 19**
 L4 239 CID BORE - 102mm/4.015"" (cont.)

PART		PART NO.	NOTES
Stem Seal	Int	122-1269	Positive Type,Viton Material,Ring & Band Style,Orange Color Seal,OEM # 3921640; Turbo
	Both	122-1053	Positive Type,Viton Material,Ring & Band Style,Black Color Seal,OEM # 3901097, Naturally Aspirated; NOTE: Exhaust Only Turbo
		122-1365	Positive Type,Viton Material,Top Hat Style,OEM # 3957912
Guide	Int	140-8177 140-8177SA	0.3162 I.D.,2.382 Length,0.5528 O.D.,OEM # 3904408 0.3162 I.D.,2.382 Length,0.5528 O.D.,""Special Alloy"", For Ultra Low Sulfur Diesel
	Exh	140-8178 140-8178SA	0.3160 I.D.,2.052 Length,0.5528 O.D.,OEM # 3904409 0.3160 I.D.,2.052 Length,0.5528 O.D.,""Special Alloy"", For Ultra Low Sulfur Diesel
	Both	140-8277	0.3162 I.D.,2.500 Length,0.4393 O.D.,W/O Seal Boss, Universal Length
Spring	Both	160-1348	2.235 Length,OEM # 3900276
		160-1379	2.385 Length,OEM # 3926700
Lifter	Both	VL156	Mechanical Type,OEM # 3931623
Push Rod	Both	190-1530	10.910 Length

251 C.I., (4.1L), 251, Gas, OHV, 8 Valve **251 20**
 L4 251 CID BORE - 101.5mm/4.00""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 ¹³ / ₁₆ O.D.,1 ⁹ / ₁₆ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
	Exh	SB1625-2	1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
Spring	Both	160-1225	2.640 Length

251 C.I., (4.1L), 251, Diesel, OHV, 8 Valve **251D 21**
 L4 251 CID BORE - 101.5mm/4.00""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1500-3	1 ¹ / ₂ O.D.,1 ¹ / ₄ I.D., ¹ / ₄ Depth,+3 O/S Available
Guide	Int	140-1829	0.4050 I.D.,4.375 Length,0.7520 O.D.,OEM # 6321A
Spring	Both	160-1225	2.640 Length

260 C.I., (4.3L), 260, Gas, OHV, 8 Valve **260 22**
 L4 260 CID BORE - 98.4mm/3.80""

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1812-5	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
Guide	Int	140-1814	0.4380 I.D.,3.438 Length,0.8140 O.D.,Non-Flanged
	Exh	140-1813	0.4380 I.D.,3.125 Length,0.8138 O.D.,Non-Flanged

267 C.I., (4.4L), A267D, Diesel, OHV, 8 Valve **A267D 23**
 L4 267 CID BORE - 104.775mm/4.125""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-4	1 ¹³ / ₁₆ O.D.,1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1630E-1	1.630 O.D.,1.335 I.D.,0.3120 Depth,+5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int	00678	1.731 Head Diameter,OEM # A21712
	Exh	02084	1.484 Head Diameter,OEM # A24910
Keeper	Both	121-1049	1 SQ Bead Type
Guide	Int	140-1829	0.4050 I.D.,4.375 Length,0.7520 O.D.,OEM # 6321A
	Exh	140-1865	0.4050 I.D.,3.219 Length,0.7520 O.D.,OEM # A11803

CASE / HEAVY DUTY (Cont'd)

23 267 C.I., (4.4L), A267D, Diesel, OHV, 8 Valve A267D
 (cont.) L4 267 CID BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Spring	Both	160-1225	2.640 Length

24 284 C.I., (4.7L), 284, Gas/LPG, OHV, 8 Valve 284G
 L4 284 CID BORE - 107.9mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1875-2 SB1812-5N	1 ⁷ / ₈ O.D., 1 ¹ / ₁₆ I.D., 1/4 Depth, Optional 1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 1/4 Depth
Guide	Both	140-1830	0.4050 I.D., 3.594 Length, 0.7518 O.D.

25 301 C.I., (4.9L), 301BD, Diesel, OHV, 12 Valve 301BD
 L6 301 CID BORE - 111mm/4.30"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1937-1 SB1750-9	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., 1/4 Depth 1 ³ / ₄ O.D., 1 ⁹ / ₁₆ I.D., 5/16 Depth
Keeper	Both	121-1021	1 RD Bead Type

26 301 C.I., (4.9L), 301D, Diesel, OHV, 8 Valve 301D
 L4 301 CID BORE - 111mm/4.30"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1937-1 SB1750-5	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., 1/4 Depth 1 ³ / ₄ O.D., 1 ⁷ / ₁₆ I.D., 5/16 Depth
Keeper	Both	121-1049	1 SQ Bead Type, OEM # A27872
Guide	Int Exh	140-1829 140-1865	0.4050 I.D., 4.375 Length, 0.7520 O.D., OEM # 6321A 0.4050 I.D., 3.219 Length, 0.7520 O.D., OEM # A11803

27 336 C.I., (5.5L), A336BDT, Diesel, OHV, 8 Valve, ""TURBO"" A336BDT
 L4 336 CID BORE - 117.475mm/4.625"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB2062-29 SB1946E-1N	2 ¹ / ₁₆ O.D., 1 ¹³ / ₁₆ I.D., 7/32 Depth, W/O Factory Installed Seat 1.946 O.D., 1.574 I.D., 0.3150 Depth
Valve	Int Exh	01512 01511	2.000 Head Diameter, OEM # A58626 1.750 Head Diameter, OEM # A58627
Keeper	Both	121-1049	1 SQ Bead Type, OEM # A27872
Guide	Both	140-7444	0.4050 I.D., 3.219 Length, 0.7513 O.D., OEM # A41783
Spring	Both	160-1226	2.234 Length, OEM # A66444
Rotator	Exh	161-1003	OEM # A66336

28 359 C.I., (5.9L), 6B5.9NA/6B5.9TA/6B5.9T, Diesel, OHV, 12 Valve, ""Cummins N/A & TURBO"" 359NA-359T-359TA
 L6 359 CID BORE - 102mm/4.015"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1853E-1 SB1722E-1	1.853 O.D., 1.498T I.D., 0.2730 Depth, OEM # 3906854 1.722 O.D., 1.357T I.D., 0.2650 Depth, OEM # 3904105
Valve	Int Exh	01665 01664	1.772 Head Diameter, OEM # 3802355 1.654 Head Diameter, OEM # 3802356
Keeper	Both	121-1079	1 RD Bead Type, OEM # 3900250
Stem Seal	Both	122-1053	Positive Type, Viton Material, Ring & Band Style, Black Color Seal, OEM # 3901097
Guide	Int	140-8177 140-8177SA	0.3162 I.D., 2.382 Length, 0.5528 O.D., OEM # 3904408 0.3162 I.D., 2.382 Length, 0.5528 O.D., ""Special Alloy"", For Ultra Low Sulfur Diesel

(Cont'd) CASE / HEAVY DUTY**359 C.I., (5.9L), 6B5.9NA/6B5.9TA/6B5.9T, Diesel, OHV, 12 Valve,
"Cummins N/A & TURBO"****28**
359NA-359T-359TA (cont.)
BORE - 102mm/4.015"

L6 359 CID

PART		PART NO.	NOTES
Guide	Exh	140-8178 140-8178SA	0.3160 I.D.,2.052 Length,0.5528 O.D.,OEM # 3904409 0.3160 I.D.,2.052 Length,0.5528 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
	Both	140-8277	0.3162 I.D.,2.500 Length,0.4393 O.D.,W/O Seal Boss, Universal Length
	Spring	Exh	160-1379	2.385 Length,OEM # 3926700
Lifter	Both	VL156	Mechanical Type,OEM # 3931623
Push Rod	Both	190-1530	10.910 Length
Head Saver Shim		230-2174	New Hgt. - 3.747 - 3.749; Min. Hgt. - 3.700

359 C.I., (5.9L), B & BT, Diesel, OHV, 12 Valve, "Cummins N/A & TURBO"**590 29**

L6 360 CID

BORE - 102mm/4.015"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1853E-1 SB1875-8	1.853 O.D.,1.498T I.D.,0.2730 Depth,OEM # 3906854 1 ⁷ / ₈ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Head W/O OEM Seat
	Exh	SB1722E-1 SB1750-7	1.722 O.D.,1.357T I.D.,0.2650 Depth,OEM # 3904105 1 ³ / ₄ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Head W/O OEM Seat
	Valve	Int	01665	1.772 Head Diameter,OEM # 3802355, W/ 30 Degree Seat
	Exh	01664 01862	1.654 Head Diameter,OEM # 3802356, W/ 45 Degree Seat 1.654 Head Diameter,OEM # 3922714, W/ 20 Degree Seat, Natural Gas
Keeper	Both	121-1079	1 RD Bead Type,OEM # 3900250
Stem Seal	Int	122-1269	Positive Type,Viton Material,Ring & Band Style,Orange Color Seal,OEM # 3921640
	Both	122-1053	Positive Type,Viton Material,Ring & Band Style,Black Color Seal,OEM # 3901097, Naturally Aspirated; NOTE: Exhaust Only Turbo
		122-1365	Positive Type,Viton Material,Top Hat Style,OEM # 3957912
Guide	Int	140-8177 140-8177SA	0.3162 I.D.,2.382 Length,0.5528 O.D.,OEM # 3904408 0.3162 I.D.,2.382 Length,0.5528 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
	Exh	140-8178 140-8178SA	0.3160 I.D.,2.052 Length,0.5528 O.D.,OEM # 3904409 0.3160 I.D.,2.052 Length,0.5528 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
	Both	140-8277	0.3162 I.D.,2.500 Length,0.4393 O.D.,W/O Seal Boss, Universal Length
Spring	Both	160-1348 160-1379	2.235 Length,OEM # 3900276 2.385 Length,OEM # 3926700
	Lifter	Both	VL156	Mechanical Type,OEM # 3931623
Push Rod	Both	190-1530	10.910 Length

377 C.I., (6.2L), A377, Gas, OHV, 12 Valve**A377 30**

L6 377 CID

BORE - 101.5mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 ¹³ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
	Exh	SB1625-2	1 ⁷ / ₈ O.D.,1 ³ / ₈ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
Guide	Both	140-1830	0.4050 I.D.,3.594 Length,0.7518 O.D.
Spring	Both	160-1225	2.640 Length

377 C.I., (6.2L), 377D, Diesel, OHV, 12 Valve**377D 31**

L6 377 CID

BORE - 101.5mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁷ / ₈ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

CASE / HEAVY DUTY (Cont'd)

31 377 C.I., (6.2L), 377D, Diesel, OHV, 12 Valve 377D
 (cont.) L6 377 CID BORE - 101.5mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1500-3	1½ O.D., 1¼ I.D., ¼ Depth, +3 O/S Available
Guide	Int	140-1829	0.4050 I.D., 4.375 Length, 0.7520 O.D., OEM # 6321A
	Exh	140-1865	0.4050 I.D., 3.219 Length, 0.7520 O.D., OEM # A11803, NOTE: 930 & 940

32 377 C.I., (6.2L), 377LP, LPG, OHV, 12 Valve 377LP
 L6 377 CID BORE - 101.5mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1812-1 SB1625-2N	1 ¹³ / ₁₆ O.D., 1 ⁹ / ₁₆ I.D., ¼ Depth, Also Available In Non-Magnetic (N) Material 1 ⁵ / ₈ O.D., 1 ¹ / ₈ I.D., ¼ Depth
Guide	Both	140-1830	0.4050 I.D., 3.594 Length, 0.7518 O.D.

33 401 C.I., (6.6L), A401BD, Diesel, OHV, 12 Valve A401BD
 L6 401 CID BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1812-4 SB1630E-1	1 ¹³ / ₁₆ O.D., 1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1.630 O.D., 1.335 I.D., 0.3120 Depth, +5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int Exh	00678 02084	1.731 Head Diameter, OEM # 21712 1.484 Head Diameter, OEM # 21713
Keeper	Both	121-1049	1 SQ Bead Type, OEM # A27872
Guide	Int	140-1829	0.4050 I.D., 4.375 Length, 0.7520 O.D., OEM # 6321A
	Exh	140-1865	0.4050 I.D., 3.219 Length, 0.7520 O.D., OEM # A11803
Spring	Both	160-1226	2.234 Length, OEM # A66444

34 401 C.I., (6.6L), A401D, Diesel, OHV, 12 Valve A401D
 L6 401 CID BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1812-4 SB1630E-1	1 ¹³ / ₁₆ O.D., 1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1.630 O.D., 1.335 I.D., 0.3120 Depth, +5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int Exh	00678 02084	1.731 Head Diameter, OEM # A21712 1.484 Head Diameter, OEM # A24910.
Keeper	Both	121-1049	1 SQ Bead Type, OEM # A27872
Guide	Int	140-1829	0.4050 I.D., 4.375 Length, 0.7520 O.D., OEM # 6321A
	Exh	140-1865	0.4050 I.D., 3.219 Length, 0.7520 O.D., OEM # A11803
Spring	Both	160-1226	2.234 Length, OEM # A66444

35 451 C.I., (7.4L), 451BD, Diesel, OHV, 12 Valve 451BD
 L6 451 CID BORE - 111mm/4.37"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1937-1 SB1750-9	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., ¼ Depth 1¾ O.D., 1 ¹ / ₈ I.D., ⁵ / ₁₆ Depth
Keeper	Both	121-1021	1 RD Bead Type
Guide	Int	140-1829	0.4050 I.D., 4.375 Length, 0.7520 O.D.
	Exh	140-1865	0.4050 I.D., 3.219 Length, 0.7520 O.D.
Spring	Both	160-1225	2.640 Length, Model 1070 Only
		160-1226	2.234 Length, OEM # A66444

(Cont'd) CASE / HEAVY DUTY**451 C.I., (7.4L), 451BDT, Diesel, OHV, 12 Valve, ""TURBO""**
L6 451 CID**451BDT 36**

BORE - 111mm/4.37"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1937-1	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., 1/4 Depth
	Exh	SB1750-9	1 ³ / ₄ O.D., 1 ³ / ₈ I.D., 5/16 Depth
Keeper	Both	121-1021	1 RD Bead Type
Guide	Int	140-1829	0.4050 I.D., 4.375 Length, 0.7520 O.D.
	Exh	140-1865	0.4050 I.D., 3.219 Length, 0.7520 O.D.
Spring	Both	160-1225	2.640 Length

504 C.I., (8.3L), A504BD, Diesel, OHV, 12 Valve
L6 504 CID**A504BD 37**

BORE - 117.475mm/4.625"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2062-29	2 ¹ / ₁₆ O.D., 1 ¹³ / ₁₆ I.D., 7/32 Depth, W/O Factory Installed Seat
	Exh	SB1946E-1N	1.946 O.D., 1.574 I.D., 0.3150 Depth
Valve	Int	01512	2.000 Head Diameter, OEM # A58626, Early Style W/ 45 Degree Seat
	Exh	01511	1.750 Head Diameter, OEM # A58627
Keeper	Both	121-1049	1 SQ Bead Type, OEM # A27872
Guide	Both	140-7444	0.4050 I.D., 3.219 Length, 0.7513 O.D., OEM # A41783
Spring	Both	160-1226	2.234 Length, OEM # A66444
Rotator	Exh	161-1003	OEM # A66336

504 C.I., (8.3L), A504BDT, Diesel, OHV, 12 Valve, ""TURBO""
L6 504 CID**A504BDT 38**

BORE - 117.475mm/4.625"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2100E-1	2.100 O.D., 1.782 I.D., 0.2670 Depth
	Exh	SB1946E-1N	1.946 O.D., 1.574 I.D., 0.3150 Depth
Valve	Int	01512	2.000 Head Diameter, OEM # A58626, Early Style W/ 45 Degree Seat
		01826	2.000 Head Diameter, OEM #s A66193 & A182172, Late Style W/ 30 Degree Seat, Turbo Intercooled
	Exh	01650S	1.750 Head Diameter, Stellite Face, OEM # A182173, Turbo Intercooled
Keeper	Both	121-1049	1 SQ Bead Type, OEM # A27872
Guide	Both	140-7444	0.4050 I.D., 3.219 Length, 0.7513 O.D., OEM # A41783
Spring	Both	160-1226	2.234 Length, OEM # A66444
Rotator	Exh	161-1003	OEM # A66336

505 C.I., (8.3L), 6CT/6CTA, Diesel, OHV, 12 Valve, ""Cummins""
L6 505 CID**505T-505TA 39**

BORE - 114.05mm/4.49"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB2129E-2	2.129 O.D., 1.752T I.D., 0.3060 Depth, OEM # 3908830, 3924582
		SB1857E-1	1.857 O.D., 1.575T I.D., 0.2290 Depth, OEM # 3904716, 3924583, 3929005
		SB1857E-1T	1.857 O.D., 1.575T I.D., 0.2500 Depth, OEM # 3928174, 3970278; NOTE: Same As SB1857E-1 Except 0.020 Thicker
Valve	Int	01667	2.047 Head Diameter, OEM # 3924492
	Exh	01666	1.811 Head Diameter, OEM # 3921444
Keeper	Both	121-1073	1 RD Bead Type, OEM # 3901177
Stem Seal	Both	122-1243	Positive Type, Viton Material, Top Hat Style, OEM # 3901178, 3915707, 3919038, 3927642
Guide	Both	140-8122	0.3761 I.D., 2.835 Length, 0.6297 O.D., OEM # 3923564
		140-8122SA	0.3761 I.D., 2.835 Length, 0.6297 O.D., ""Special Alloy"" For Ultra Low Sulfur Diesel

CASE / HEAVY DUTY (Cont'd)

39 505 C.I., (8.3L), 6CT/6CTA, Diesel, OHV, 12 Valve, ""Cummins"" 505T-505TA
 (cont.) L6 505 CID BORE - 114.05mm/4.49""

PART		PART NO.	NOTES
Spring	Exh	160-1669	3.070 Length,W/ Damper,OEM # 3916588; NOTE: With Pink Stripes, W/ 70 lbs Additional Seat Pressure
	Both	160-1592	2.608 Length,OEM # 3906412, 3991085, 5292625

40 611 C.I., (10.0L), LTA10, Diesel, OHV, 24 Valve, ""Cummins"" 611
 L6 611 CID BORE - 125mm/4.921""

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1812E-4	1.812 O.D.,1.450 I.D.,0.1860 Depth,+5, +10, +20 & +30 O/S Available,OEM # 3028070
Valve	Int	01532	1.673 Head Diameter,OEM # 3033234
	Exh	01531	1.673 Head Diameter,OEM # 3818520
Keeper	Both	121-1027	1 RD Bead Type,OEM # 3275354
Stem Seal	Both	122-1241	Positive Type,Viton Material,Metal Clad Style,OEM # 3328781; NOTE: Use W/ 140-8210 Valve Guide
Guide	Both	140-7625	0.3819 I.D.,2.934 Length,0.6504 O.D.,OEM # 3033314
		140-7625SA	0.3819 I.D.,2.934 Length,0.6504 O.D.,""Special Alloy"", For Ultra Low Sulfur Diesel
		140-8210	0.3819 I.D.,2.633 Length,0.6504 O.D.,OEM # 3703512, 3328785, Machined For Seal, Guide Must Protrude 1.079 Above The Top Surface Of The Head, +2 O/S Available
		140-8210SA	0.3819 I.D.,2.633 Length,0.6504 O.D.,""Special Alloy"", For Ultra Low Sulfur Diesel
Spring	Both	160-1303	3.100 Length,Outer, OEM # 3033233
		160-1304	3.300 Length,Inner, OEM # 3033232

41 855 C.I., (14.0L), NTA 855, Diesel, OHV, 24 Valve, ""Cummins Series BC III"" 855
 L6 855 CID BORE - 139.7mm/5.50""

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB2003E-1	2.003 O.D.,1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material,OEM # 3017759
		SB2003E-1N	2.003 O.D.,1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth,OEM # 127930, OEM Replacement for Turbo & High Heat Applications, Non-Magnetic
		SB2003E-6N	2.003 O.D.,1.625 I.D.,0.2795 Depth,+5 & +10 O/S Available,Optional, Nickel Base Alloy Version of Stellite SB2006E-6C. Can Be Used W/ 15 & 20 Degree Valves
		SB2006E-1	2.006 O.D.,1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth,+5, +10, +20 & +30 O/S Available, Also Available In Non-Magnetic (N) Material,OEM # 3032285, +3 Additional Press Fit Over OEM Replacement
		SB2006E-1N	2.006 O.D.,1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth,+5, +10, +20 O/S Available,OEM #127930, Turbo & High Heat Application
		SB2006E-6C	2.006 O.D.,1.630 I.D.,0.2800 Depth,OEM # 80610016 & 90210014, Stellite Material, Can Be Used W/ Natural Gas 15 & 20 Degree Valve
Valve	Int	00603	1.870 Head Diameter,Letter ""O"" in Head,OEM # 135957
	Exh	00602	1.870 Head Diameter,Letter ""N"" In Head,OEM # 3040830
		00602S	1.870 Head Diameter,Stellite Face, W/ Letter ""S"" or ""J"" In Head,OEM # 145701
Keeper	Both	121-1006	2 RD Bead Type,OEM # 127554
Guide	Both	140-7994	0.4530 I.D.,3.400 Length,0.7518 O.D.,OEM # 3006456
		140-7994SA	0.4530 I.D.,3.400 Length,0.7518 O.D.,""Special Alloy"", For Ultra Low Sulfur Diesel
Spring	Both	160-1177	2.685 Length,OEM # 211999
Rocker Components		187-1052	Bridge Guide,OEM # 123558, Big Cam
		187-1067	Injector Cam Roller,OEM # 3036934, Big Cam I, II, III

(Cont'd) **CASE / HEAVY DUTY**

855 C.I., (14.0L), NTA 855, Diesel, OHV, 24 Valve, ""Cummins Series BC III"" 855 **41**
L6 855 CID BORE - 139.7mm/5.50"" (cont.)

PART	PART NO.	NOTES
Rocker Components	187-1068	Injector Cam Roller,OEM # 3062096, Small Cam
Injector Tubes and Components	Both 240-1009	Copper Material,Injector Tube, Thin Nose,OEM # 3011934, 3070486; (250) NT 855
	240-1009R	Viton Material,O-Ring, Black,OEM # 3007759; (250) NT 855
	240-1010	Copper Material,Injector Tube, Heavy Nose,OEM # 3011935, 3071147; (250) NT855

CATERPILLAR / HEAVY DUTY

Engine	Models	Line No.
3 Cylinder		
69 C.I., (1.1L), C1.1, Diesel, OHV, 6 Valve	Industrial	1
91 C.I., (1.5L), 3013, Diesel, OHV, 6 Valve	Industrial, 302.5, 303.5	2
91 C.I., (1.5L), 3013C, Diesel, OHV, 6 Valve	Industrial	3
91 C.I., (1.5L) C1.5, Diesel, OHV, 6 Valve, ""Shibaura N/A & TURBO""	Industrial	4
201 C.I., (3.3L), C3.3, Diesel, OHV, 6 Valve, ""Perkins 1100 Series N/A & TURBO""	Industrial	14
4 Cylinder		
92 C.I., (1.5L), C1.6, Diesel, OHV, 8 Valve	Industrial	5
120 C.I., (2.0L), XN1P, Diesel, OHV, 8 Valve, ""Peugeot Forklift"" . . . . .	. . . . .	6
122 C.I., (2.0L), 3014, Diesel, OHV, 8 Valve	Industrial	7
135 C.I., (2.2L), 3024, Diesel, OHV, 8 Valve, ""Shibaura""	Industrial	8
135 C.I., (2.2L), 3024C/T, Diesel, OHV, 8 Valve, ""Shibaura TURBO""	Industrial	9
135 C.I., (2.2L), C2.2, Diesel, OHV, 8 Valve, ""Shibaura""	Industrial	10
135 C.I., (2.2L), C2.2T, Diesel, OHV, 8 Valve, ""Shibaura TURBO""	Industrial	11
163 C.I., (2.7L), G1600, Gas/LPG, OHV, 8 Valve, ""Hercules"" . . . . .	. . . . .	12
183 C.I., (3.0L), 3034, Diesel, OHV, 8 Valve, ""Perkins 700 Series TURBO""	Industrial	13
203 C.I., (3.3L), 3044, Diesel, OHV, 8 Valve, ""Mitsubishi S4S""	Forklift, DP20,DP25,DP30,DP35	15
208 C.I., (3.4L), C3.4, Diesel, OHV, 8 Valve, ""TURBO""	Industrial	16
208 C.I., (3.4L), C3.4B ACERT, Diesel, OHV, 16 Valve, ""TURBO""	Industrial	17
244 C.I., (4.0L), 3054, Diesel, OHV, 8 Valve, ""Perkins 1004.40""	Industrial	18
244 C.I., (4.0L), 3054, Diesel, OHV, 8 Valve, ""Perkins 1004.40T TURBO"" . . . . .	. . . . .	19
244 C.I., (4.0L), 3054, Diesel, OHV, 8 Valve, ""Perkins 4.401 N/A & TURBO""	Industrial	20
258 C.I., (4.2L), 3054B, Diesel, OHV, 8 Valve, ""Perkins 1004.4/4.421"" . . . . .	. . . . .	21
259 C.I., (4.25L), C4.2 ACERT, Diesel, OHV, 16 Valve	Industrial	22
260 C.I., (4.3L), 3064, Diesel, OHV, 8 Valve, ""Mitsubishi""	Industrial 311, 312, 314	23
268 C.I., (4.4L), 3114, Diesel, OHV, 8 Valve . . . . .	. . . . .	24

CATERPILLAR / HEAVY DUTY (Cont'd)

Engine	Models	Line No.
4 Cylinder		
269 C.I., (4.4L), 3054 C & E, Diesel, OHV, 8 Valve, ""Perkins 1100C Series N/A & TURBO""	Industrial	25
269 C.I., (4.4L), C4.4, Diesel, OHV, 8 Valve, ""Perkins 1100C Series TURBO""	Industrial	26
269 C.I., (4.4L), C4.4 ACERT, Diesel, 16 Valve, ""TURBO""		27
318 C.I., (5.2L), 3204, Diesel, OHV, 8 Valve, ""Naturally Aspirated""		29
318 C.I., (5.2L), 3204, Diesel, OHV, 8 Valve, ""TURBO""		30
350 C.I., (5.7L), 1670, Diesel, OHV, 8 Valve		31
350 C.I., (5.7L), D4CD, Gas, OHV, 8 Valve		32
350 C.I., (5.7L), D312, Diesel, OHV, 8 Valve		33
350 C.I., (5.7L), D315, Diesel, OHV, 8 Valve		34
350 C.I., (5.7L), D315G, Diesel, OHV, 8 Valve		35
350 C.I., (5.7L), D330A, Diesel, OHV, 8 Valve		36
350 C.I., (5.7L), D330B, Diesel, OHV, 8 Valve		37
425 C.I., (7.0L), D330C, Diesel, OHV, 8 Valve		45
425 C.I., (7.0L), 3304, Diesel, OHV, 8 Valve, ""N/A & TURBO""		46
425 C.I., (7.0L), G3304, Gas, OHV, 8 Valve		47
831 C.I., (13.6L), D339, Diesel, OHV, 8 Valve		75
6 Cylinder		
305 C.I., (5.0L), 3046, Diesel, OHV, 12 Valve, ""Mitsubishi S6S""	Forklifts, DP40,DPL40,DP45,DP50,DP50C,DP60,DP70	28
365 C.I., (6.0L), 3056, Diesel, OHV, 12 Valve, ""Perkins T6.601/6.601 N/A & TURBO""		38
365 C.I., (6.0L), 3056, Diesel, OHV, 12 Valve, ""Perkins 1006.60 Naturally Aspirated""		39
365 C.I., (6.0L), 3056, Diesel, OHV, 12 Valve, ""Perkins 1006.60T TURBO""		40
390 C.I., (6.4L), 3066, Diesel, OHV, 12 Valve, ""Mitsubishi 7JK1""	320	41
390 C.I., (6.4L), C6.4 ACERT, Diesel, OHV, 24 Valve	Industrial	42
403 C.I., (6.6L), 3116, Diesel, OHV, 12 Valve		43
403 C.I., (6.6L), C6.6 ACERT, Diesel, OHV, 24 Valve, ""TURBO""		44
428 C.I., (7.0L), C7.1 ACERT, Diesel, OHV, 24 Valve, ""TURBO""	Industrial	48
442 C.I., (7.2L), 3126, Diesel, OHV, 12 Valve, ""TURBO""		49
442 C.I., (7.2L), 3126B, Diesel, OHV, 18 Valve, ""TURBO""		50
442 C.I., (7.2L), C7 ACERT, Diesel, OHV, 18 Valve, ""TURBO""		51
525 C.I., (8.6L), D6B, Gas, OHV, 12 Valve		52
525 C.I., (8.6L), D318, Diesel, OHV, 12 Valve		53
525 C.I., (8.6L), D318G, Diesel, OHV, 12 Valve		54
525 C.I., (8.6L), D333A, Diesel, OHV, 12 Valve		55
525 C.I., (8.6L), 1673, Diesel, OHV, 12 Valve		56

(Cont'd) **CATERPILLAR / HEAVY DUTY**

Engine	Models	Line No.
6 Cylinder		
537 C.I., (8.8L), C9 ACERT, Diesel, OHV, 24 Valve, ""TURBO""		57
568 C.I., (9.3L), C9.3 ACERT, Diesel, OHV, 24 Valve, ""TURBO""		58
629 C.I., (10.3L), C10, Diesel, OHV, 24 Valve, ""TURBO""		59
629 C.I., (10.3L), 3176, Diesel, OHV, 24 Valve, ""TURBO""		60
638 C.I., (10.5L), D333C, Diesel, OHV, 12 Valve, ""TURBO""		65
638 C.I., (10.5L), D334, Diesel, OHV, 12 Valve, ""TURBO""		66
638 C.I., (10.5L), 3306, Diesel, OHV, 12 Valve, ""N/A & TURBO""		67
638 C.I., (10.5L), G3306, Gas, OHV, 12 Valve, ""Natural Gas""		68
638 C.I., (10.5L), 1673C, Diesel, OHV, 12 Valve		69
638 C.I., (10.5L), 1674, Diesel, OHV, 12 Valve		70
677 C.I., (11.1L), C11 ACERT, Diesel, OHV, 24 Valve, ""TURBO""		71
732 C.I., (12.0L), 3196, Diesel, OHV, 24 Valve, ""TURBO""		72
732 C.I., (12.0L), C12, Diesel, OHV, 24 Valve, ""TURBO""		73
763 C.I., (12.5L), C13 ACERT, Diesel, OHV, 24 Valve, ""TURBO""		74
893 C.I., (14.6L), D343, Diesel, OHV, 24 Valve		76
893 C.I., (14.6L), 1693, Diesel, OHV, 24 Valve, ""TURBO""		77
893 C.I., (14.6L), 3406, Diesel, OHV, 24 Valve, ""TURBO""		78
893 C.I., (14.6L), 3406B, Diesel, OHV, 24 Valve, ""TURBO""		79
893 C.I., (14.6L), 3406C, Diesel, OHV, 24 Valve, ""TURBO""		80
893 C.I., (14.6L), 3406E, Diesel, SOHC, 24 Valve, ""TURBO""		81
893 C.I., (14.6L), G3406, Gas, OHV, 24 Valve, ""Natural Gas""		82
928 C.I., (15.2L), C15, Diesel, SOHC, 24 Valve, ""TURBO""		83
964 C.I., (15.8L), C16, Diesel, SOHC, 24 Valve, ""TURBO""		84
964 C.I., (15.8L), 3456, Diesel, OHV, 24 Valve, ""TURBO""		85
1099 C.I., (18.0L), G3408, Gas, OHV, 32 Valve, ""Natural Gas""		89
1106 C.I., (18.1L), C18 ACERT, Diesel, OHV, 24 Valve, ""TURBO""		90
1246 C.I., (20.4L), D8/D342, Diesel, OHV, 12 Valve, ""N/A & TURBO""		92
1473 C.I., (24.1L), D9/D353, Diesel, OHV, 12 Valve, ""TURBO""		93
1473 C.I., (24.1L), G353, Gas, OHV, 12 Valve, ""Natural Gas""		94
8 Cylinder		
636 C.I., (10.5L), 1676, Diesel, OHV, 16 Valve, ""TURBO""		61
636 C.I., (10.5L), 3208, Diesel, OHV, 16 Valve, ""Naturally Aspirated""		62
636 C.I., (10.5L), 3208, Diesel, OHV, 16 Valve, ""TURBO""		63
636 C.I., (10.5L), D336, Diesel, OHV, 16 Valve, ""TURBO""		64

CATERPILLAR / HEAVY DUTY (Cont'd)

Engine	Models	Line No.
8 Cylinder		
1099 C.I., (18.0L), 3408, Diesel, OHV, 32 Valve, ""TURBO""		86
1099 C.I., (18.0L), 3408C, Diesel, OHV, 32 Valve, ""TURBO""		87
1099 C.I., (18.0L), 3408E, Diesel, OHV, 32 Valve, ""TURBO""		88
1191 C.I., (19.5L), D346, Diesel, OHV, 32 Valve, ""TURBO""		91
1662 C.I., (27.2L), D364, Diesel, OHV, 16 Valve		100
1662 C.I., (27.2L), D375, Diesel, OHV, 16 Valve		101
1964 C.I., (32.3L), D379, Diesel, OHV, 16 Valve		104
1964 C.I., (32.3L), G379, Gas, OHV, 16 Valve, ""Natural Gas""		105
2107 C.I., (34.5L), 3508, Diesel, OHV, 32 Valve, ""TURBO""		106
2107 C.I., (34.5L), 3508B, Diesel, OHV, 32 Valve, ""Industrial/Marine TURBO""	Industrial, Marine	107
2107 C.I., (34.5L), G3508, Gas, OHV, 32 Valve, ""Natural Gas""		108
2107 C.I., (34.5L), G3508B, Gas, OHV, 32 Valve, ""Natural Gas""		109
12 Cylinder		
1648 C.I., (27.0L), C27, Diesel, OHV, 48 Valve, ""Industrial TURBO""	Industrial	95
1649 C.I., (27.0L), 3412, Diesel, OHV, 48 Valve, ""TURBO""		96
1649 C.I., (27.0L), 3412C, Diesel, OHV, 48 Valve, ""TURBO""		97
1649 C.I., (27.0L), 3412E, Diesel, OHV, 48 Valve, ""TURBO""		98
1649 C.I., (27.0L), G3412, Gas, OHV, 48 Valve, ""Natural Gas""		99
1786 C.I., (29.2L), D348, Diesel, OHV, 48 Valve		102
1959 C.I., (32.1L), C32, Diesel, OHV, 48 Valve, ""Industrial TURBO""	Industrial	103
2493 C.I., (41.0L), D386, Diesel, OHV, 24 Valve		111
2493 C.I., (41.0L), D397, Diesel, OHV, 24 Valve, ""N/A & TURBO""		112
2946 C.I., (48.3L), D398, Diesel, OHV, 24 Valve, ""TURBO""		113
2946 C.I., (48.3L), G398, Gas, OHV, 24 Valve, ""Natural Gas""		114
3160 C.I., (51.8L), 3512, Diesel, OHV, 48 Valve, ""TURBO""		115
3160 C.I., (51.8L), 3512B, Diesel, OHV, 48 Valve, ""Industrial/Marine TURBO""	Industrial, Marine	116
3160 C.I., (51.8L), G3512, Gas, OHV, 48 Valve, ""Natural Gas""		117
3160 C.I., (51.8L), G3512B, Gas, OHV, 48 Valve, ""Natural Gas""		118
16 Cylinder		
2382 C.I., (39.0L), D349, Diesel, OHV, 64 Valve, ""TURBO""		110
3928 C.I., (64.4L), D399, Diesel, OHV, 32 Valve, ""TURBO""		119
3928 C.I., (64.4L), G399, Gas, OHV, 32 Valve, ""Natural Gas""		120
4210 C.I., (69.0L), 3516, Diesel, OHV, 64 Valve, ""TURBO""		121

(Cont'd) **CATERPILLAR / HEAVY DUTY**

Engine	Models	Line No.
16 Cylinder		
4210 C.I., (69.0L), 3516B, Diesel, OHV, 64 Valve, ""Industrial/Marine TURBO""	Industrial, Marine	122
4210 C.I., (69.0L), G3516, Gas, OHV, 64 Valve, ""Natural Gas""		123
4210 C.I., (69.0L), G3516B, Gas, OHV, 64 Valve, ""Natural Gas""		124
4210 C.I., (69.0L), G3516J, Gas, OHV, 64 Valve, ""Natural Gas""		125
20 Cylinder		
5266 C.I., (86.3L), G3520, Gas, OHV, 80 Valve, ""Natural Gas""		126
5266 C.I., (86.3L), G3520B, Gas, OHV, 80 Valve, ""Natural Gas""		127
5266 C.I., (86.3L), G3520C, Gas, OHV, 80 Valve, ""Natural Gas""		128
5266 C.I., (86.3L), G3520E, Gas, OHV, 80 Valve, ""Natural Gas""		129
24 Cylinder		
7143 C.I., (117.0L), 3524B, Diesel, OHV, 96 Valve, ""TURBO""	Industrial	130

69 C.I., (1.1L), C1.1, Diesel, OHV, 6 Valve **C1.1** **1**
L3 69 CID BORE - 77.0mm/3.03""

PART	PART NO.	NOTES
Valve Seat Insert	Int Exh SB1558E-1PM SB1400E-1PM	1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # 256-2084 1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # 256-2085
Keeper	Both 121-1146	1 RD Bead Type,OEM # 153-5556
Stem Seal	Int Exh 122-1464 122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5599 Positive Type,Viton Material,Metal Clad Style,OEM # 153-5554, 440-5104
Spring	Both 160-1638	1.382 Length,OEM # 153-5558

91 C.I., (1.5L), 3013, Diesel, OHV, 6 Valve **3013** **2**
L3 91 CID BORE - 84.01mm/3.3075""

PART	PART NO.	NOTES
Valve Seat Insert	Int Exh SB1558E-1PM SB1400E-1PM	1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # 256-2084 1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # 256-2085
Valve	Int Exh 13326 13327	1.457 Head Diameter,OEM # 154-0888, 308-1860; NOTE: Model 303.5 1.299 Head Diameter,OEM # 154-0889, 308-1861; NOTE: Model 303.5
Keeper	Both 121-1146	1 RD Bead Type,OEM # 153-5556
Stem Seal	Int Exh 122-1464 122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5559 Positive Type,Viton Material,Metal Clad Style,OEM # 153-5554, 440-5104
Guide	Both 140-3202	0.2756 I.D.,1.460 Length,0.5020 O.D.
Spring	Both 160-1638	1.382 Length,OEM # 153-5558

91 C.I., (1.5L), 3013C, Diesel, OHV, 6 Valve **3013C** **3**
L3 91 CID BORE - 84.01mm/3.3075""

PART	PART NO.	NOTES
Valve Seat Insert	Int Exh SB1558E-1PM SB1400E-1PM	1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # 256-2084 1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # 256-2085
Keeper	Both 121-1146	1 RD Bead Type,OEM # 153-5556

CATERPILLAR / HEAVY DUTY (Cont'd)

3 91 C.I., (1.5L), 3013C, Diesel, OHV, 6 Valve 3013C
 (cont.) L3 91 CID BORE - 84.01mm/3.3075"

PART		PART NO.	NOTES
Stem Seal	Int	122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5559
	Exh	122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5554, 440-5104
Guide	Both	140-3202	0.2756 I.D.,1.460 Length,0.5020 O.D.
Spring	Both	160-1638	1.382 Length,OEM # 153-5558

4 91 C.I., (1.5L) C1.5, Diesel, OHV, 6 Valve, ""Shibaura N/A & TURBO"" C1.5
 L3 91 CID BORE - 84.01mm/3.3075"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1558E-1PM	1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # 256-2084
	Exh	SB1400E-1PM	1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # 256-2085
Valve	Int	13326	1.457 Head Diameter,OEM # 154-0888, 308-1860; NOTE: Late
	Exh	13327	1.299 Head Diameter,OEM # 154-0889, 308-1861; NOTE: Late
Keeper	Both	121-1146	1 RD Bead Type,OEM # 153-5556
Stem Seal	Int	122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5559
	Exh	122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5554, 440-5104

5 92 C.I., (1.5L), C1.6, Diesel, OHV, 8 Valve C1.6
 L4 92 CID BORE - 77.0mm/3.03"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1558E-1PM	1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # 256-2084
	Exh	SB1400E-1PM	1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # 256-2085
Keeper	Both	121-1146	1 RD Bead Type,OEM # 153-5556
Stem Seal	Int	122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5559
	Exh	122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5554, 440-5104
Spring	Both	160-1638	1.382 Length,OEM # 153-5558

6 120 C.I., (2.0L), XN1P, Diesel, OHV, 8 Valve, ""Peugeot Forklift"" XN1P
 L4 120 CID BORE - 88mm/3.465"

PART		PART NO.	NOTES
Valve	Int	13055	1.673 Head Diameter,OEM # 7C3792
	Exh	13056	1.398 Head Diameter,OEM # 4P7223
Stem Seal	Both	122-1381	Positive Type,Teflon Material,All Teflon Style,OEM #G6144
Guide	Int	140-8247	0.3165 I.D.,2.265 Length,0.5533 O.D.,OEM # 7C3830H
	Exh	140-8248	0.3180 I.D.,2.195 Length,0.5533 O.D.,OEM # 7C3829H

7 122 C.I., (2.0L), 3014, Diesel, OHV, 8 Valve 3014
 L4 122 CID BORE - 84.01mm/3.3075"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1400E-1PM	1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # 256-2085; NOTE: Check S/N
Keeper	Both	121-1146	1 RD Bead Type,OEM # 153-5556
Stem Seal	Int	122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5559
	Exh	122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5554, 440-5104
Spring	Both	160-1638	1.382 Length,OEM # 153-5558

8 135 C.I., (2.2L), 3024, Diesel, OHV, 8 Valve, ""Shibaura"" 3024
 L4 135 CID BORE - 84.01mm/3.3075"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1558E-1PM	1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # 256-2084
	Exh	SB1400E-1PM	1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # 256-2085
Valve	Int	13326	1.457 Head Diameter,OEM # 154-0888, 308-1860; NOTE: Late

(Cont'd) **CATERPILLAR / HEAVY DUTY**

135 C.I., (2.2L), 3024, Diesel, OHV, 8 Valve, ""Shibaura"" **3024 8**
L4 135 CID **BORE - 84.01mm/3.3075"" (cont.)**

PART		PART NO.	NOTES
Valve	Exh	13327	1.299 Head Diameter,OEM # 154-0889, 308-1861; NOTE: Late
Keeper	Both	121-1146	1 RD Bead Type,OEM # 153-5556
Stem Seal	Int	122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5559
	Exh	122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5554, 440-5104
Guide	Both	140-3202	0.2756 I.D.,1.460 Length,0.5020 O.D.
Spring	Both	160-1638	1.382 Length,OEM # 153-5558

135 C.I., (2.2L), 3024C/T, Diesel, OHV, 8 Valve, ""Shibaura TURBO"" **3024C/T 9**
L4 135 CID **BORE - 84.01mm/3.3075""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1558E-1PM	1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # 256-2084
	Exh	SB1400E-1PM	1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # 256-2085
Valve	Int	13326	1.457 Head Diameter,OEM # 154-0888, 308-1860; NOTE: Late
	Exh	13327	1.299 Head Diameter,OEM # 154-0889, 308-1861; NOTE: Late
Keeper	Both	121-1146	1 RD Bead Type,OEM # 153-5556
Stem Seal	Int	122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5559
	Exh	122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5554, 440-5104
Guide	Both	140-3202	0.2756 I.D.,1.460 Length,0.5020 O.D.
Spring	Both	160-1638	1.382 Length,OEM # 153-5558

135 C.I., (2.2L), C2.2, Diesel, OHV, 8 Valve, ""Shibaura"" **C2.2 10**
L4 135 CID **BORE - 84.01mm/3.3075""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1558E-1PM	1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # 256-2084
	Exh	SB1400E-1PM	1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # 256-2085
Valve	Int	13326	1.457 Head Diameter,OEM # 154-0888, 308-1860; NOTE: Late
	Exh	13327	1.299 Head Diameter,OEM # 154-0889, 308-1861; NOTE: Late
Keeper	Both	121-1146	1 RD Bead Type,OEM # 153-5556
Stem Seal	Int	122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5559
	Exh	122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5554, 440-5104
Guide	Both	140-3202	0.2756 I.D.,1.460 Length,0.5020 O.D.
Spring	Both	160-1638	1.382 Length,OEM # 153-5558

135 C.I., (2.2L), C2.2T, Diesel, OHV, 8 Valve, ""Shibaura TURBO"" **C2.2T 11**
L4 135 CID **BORE - 84.01mm/3.3075""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1558E-1PM	1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # 256-2084
	Exh	SB1400E-1PM	1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # 256-2085
Valve	Int	13326	1.457 Head Diameter,OEM # 154-0888, 308-1860; NOTE: Late
	Exh	13327	1.299 Head Diameter,OEM # 154-0889, 308-1861; NOTE: Late
Keeper	Both	121-1146	1 RD Bead Type,OEM # 153-5556
Stem Seal	Int	122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5559
	Exh	122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5554, 440-5104
Guide	Both	140-3202	0.2756 I.D.,1.460 Length,0.5020 O.D.
Spring	Both	160-1638	1.382 Length,OEM # 153-5558

CATERPILLAR / HEAVY DUTY (Cont'd)

12 163 C.I., (2.7L), G1600, Gas/LPG, OHV, 8 Valve, ""Hercules"" G1600
 L4 163 CID BORE - 101.5mm/4.00""

PART		PART NO.	NOTES
Valve	Int	01880	1.812 Head Diameter, Gas & LPG, 30 Degree Seat, OEM # 40-2022507
	Exh	01881	1.602 Head Diameter, Gas, 45 Degree Seat, OEM # 40-2022508
		01882	1.550 Head Diameter, LPG, 30 Degree Seat, OEM # 40-2022516 & 7N0360
Guide	Both	140-9872	0.3120 I.D., 2.281 Length, 0.4390 O.D., Spiral I.D. Conversion Guide, Must Be Cut For Installed Height
		140-9977	0.3120 I.D., 2.281 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9977H), -5 U/S I.D. Available (140-9977U)
Valve Guide Liners	Both	KL1840A	Bronze Bullet Liner, Smooth Wall, OEM # 1N-4995, NOTE: Guide Liner

13 183 C.I., (3.0L), 3034, Diesel, OHV, 8 Valve, ""Perkins 700 Series TURBO"" 3034
 L4 183 CID BORE - 97.0mm/3.819""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1782E-2	1.782 O.D., 1.535T I.D., 0.2450 Depth, OEM # 188-8637
	Exh	SB1518E-1	1.518 O.D., 1.245T I.D., 0.2450 Depth, OEM # 188-8636
Valve	Int	13143	1.735 Head Diameter, OEM # 188-8640
	Exh	13142	1.465 Head Diameter, OEM # 152-9857
Keeper	Both	121-1093	3 RD Bead Type, OEM # 152-9860
Stem Seal	Both	122-1475	Positive Type, Viton Material, All Rubber Style, OEM # 192-6335
Guide	Both	140-3105	0.2752 I.D., 1.790 Length, 0.4740 O.D., OEM # 188-8633
Spring	Both	160-1502	1.500 Length, OEM # 152-9858

14 201 C.I., (3.3L), C3.3, Diesel, OHV, 6 Valve, ""Perkins 1100 Series N/A & TURBO"" C3.3
 L3 201 CID BORE - 105.0mm/4.133""

PART		PART NO.	NOTES
Valve	Int	13137	1.823 Head Diameter, OEM # 225-5495
	Exh	13138	1.634 Head Diameter, OEM # 225-5499
Keeper	Both	121-1118	1 RD Bead Type, OEM # 147-1979
Stem Seal	Int	122-1434	Positive Type, Viton Material, Top Hat Style, OEM # 252-6438; NOTE: Green
	Exh	122-1435	Positive Type, Viton Material, Top Hat Style, OEM # 254-3954; NOTE: Brown
Guide	Both	140-3059	0.3555 I.D., 2.018 Length, 0.5135 O.D., OEM # 185-0882
Spring	Both	160-1569	1.729 Length, Conical, OEM # 225-5496, 436-0519; NOTE: Alternative Aftermarket Design
Lifter	Both	VL549	Mechanical Type, OEM # 138-2053

15 203 C.I., (3.3L), 3044, Diesel, OHV, 8 Valve, ""Mitsubishi S4S"" 3044
 L4 203 CID BORE - 94.04mm/3.702""

PART		PART NO.	NOTES
Valve	Int	13063	1.732 Head Diameter, OEM # 233-5469
	Exh	13064	1.380 Head Diameter, OEM # 233-5470
Stem Seal	Both	122-1116	Positive Type, ACM Material, Metal Clad Style, OEM # 103-9260
Guide	Both	140-3097	0.3157 I.D., 1.970 Length, 0.4737 O.D., OEM # 103-9247
Spring	Both	160-1514	1.934 Length, OEM # 103-2782

16 208 C.I., (3.4L), C3.4, Diesel, OHV, 8 Valve, ""TURBO"" C3.4 8V
 L4 208 CID BORE - 99.0mm/3.898""

PART		PART NO.	NOTES
Valve	Int	13063	1.732 Head Diameter, OEM # 233-5469
	Exh	13064	1.380 Head Diameter, OEM # 233-5470
Stem Seal	Both	122-1116	Positive Type, ACM Material, Metal Clad Style, OEM # 103-9260

(Cont'd) **CATERPILLAR / HEAVY DUTY**

208 C.I., (3.4L), C3.4, Diesel, OHV, 8 Valve, ""TURBO"" **C3.4_8V 16**
BORE - 99.0mm/3.898"" (cont.)
L4 208 CID

PART		PART NO.	NOTES
Guide	Both	140-3097	0.3157 I.D.,1.970 Length,0.4737 O.D.,OEM # 103-9247
Spring	Both	160-1514	1.934 Length,OEM # 103-2782

208 C.I., (3.4L), C3.4B ACERT, Diesel, OHV, 16 Valve, ""TURBO"" **C3.4B_16V 17**
BORE - 99.0mm/3.898""
L4 208 CID

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1381E-1 SB1322E-1	1.381 O.D.,1.161T I.D.,0.2550 Depth,OEM # 377-0399 1.322 O.D.,1.114T I.D.,0.2360 Depth,OEM # 377-0400
Valve	Int Exh	13329 13330	1.378 Head Diameter,OEM # 309-6678 1.299 Head Diameter,OEM # 339-9637
Keeper	Both	121-1098	3 RD Bead Type,OEM # 276-8123
Stem Seal	Both	122-1457	Positive Type,Viton Material,Top Hat Style,OEM # 299-5511
Guide	Both	140-3164	0.2364 I.D.,1.820 Length,0.3952 O.D.,OEM # 380-2073

244 C.I., (4.0L), 3054, Diesel, OHV, 8 Valve, ""Perkins 1004.40"" **3054NA 18**
BORE - 100.03mm/3.9385""
L4 244 CID

PART		PART NO.	NOTES
Valve	Int Exh	01887 01784	1.772 Head Diameter,OEM # 6I-0282 1.473 Head Diameter,OEM # 7W-4602
Keeper	Both	121-1018	1 RD Bead Type,OEM # 067-6834
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 1W-5849
Guide	Int Exh	140-3063 140-3064	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 160-5436 0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 160-5438
Spring	Both	160-1496 160-1497	1.672 Length,Inner, OEM # 6I-0284 1.809 Length,Outer, OEM # 6I-0283
Lifter	Both	VL549	Mechanical Type,OEM # 138-2053

244 C.I., (4.0L), 3054, Diesel, OHV, 8 Valve, ""Perkins 1004.40T TURBO"" **3054T 19**
BORE - 100.03mm/3.9385""
L4 244 CID

PART		PART NO.	NOTES
Valve	Int Exh	01887 05000 01784	1.772 Head Diameter,OEM # 6I-1196; NOTE: 45 Degree 1.772 Head Diameter,OEM # 100-4626; NOTE: 30 Degree 1.473 Head Diameter,OEM # 7W-4602
Keeper	Both	121-1018	1 RD Bead Type,OEM # 067-6834
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 1W-5849
Guide	Int Exh	140-3063 140-3064	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 160-5436 0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 160-5438
Spring	Both	160-1496 160-1497	1.672 Length,Inner, OEM # 6I-0284 1.809 Length,Outer, OEM # 6I-0283
Lifter	Both	VL549	Mechanical Type,OEM # 138-2053

244 C.I., (4.0L), 3054, Diesel, OHV, 8 Valve, ""Perkins 4.401 N/A & TURBO"" **3054TNA 20**
BORE - 103.03mm/3.9385""
L4 244 CID

PART		PART NO.	NOTES
Valve	Int Exh	05001 13136 05002S 13219	1.693 Head Diameter,OEM # 138-2052, 45 Degree 1.693 Head Diameter,OEM # 145-6855, 30 Degree 1.620 Head Diameter,Stellite Face,OEM # 138-2050, 45 Degree 1.616 Head Diameter,OEM # 145-6857, 30 Degree
Keeper	Both	121-1118	1 RD Bead Type,OEM # 147-1979

CATERPILLAR / HEAVY DUTY (Cont'd)

20 244 C.I., (4.0L), 3054, Diesel, OHV, 8 Valve, ""Perkins 4.401 N/A & TURBO"" 3054TNA
(cont.) L4 244 CID BORE - 103.03mm/3.9385""

PART		PART NO.	NOTES
Stem Seal	Int	122-1395	Positive Type,Viton Material,All Rubber Style,OEM # 145-6856
	Exh	122-1397	Positive Type,Viton Material,All Rubber Style,OEM # 145-6858
Guide	Int	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 185-0882
	Exh	140-3060	0.3547 I.D.,2.018 Length,0.5527 O.D.,OEM # 163-9256
Spring	Both	160-1498	1.847 Length,OEM # 206-4127
Lifter	Both	VL549	Mechanical Type,OEM # 138-2053

21 258 C.I., (4.2L), 3054B, Diesel, OHV, 8 Valve, ""Perkins 1004.4/4.421"" 3054B
L4 258 CID BORE - 103.03mm/3.9385""

PART		PART NO.	NOTES
Valve	Int	05003	1.772 Head Diameter,OEM # 176-3134
	Exh	05004	1.654 Head Diameter,OEM # 176-3137
Keeper	Both	121-1118	1 RD Bead Type,OEM # 147-1979
Stem Seal	Int	122-1395	Positive Type,Viton Material,All Rubber Style,OEM # 145-6856
	Exh	122-1397	Positive Type,Viton Material,All Rubber Style,OEM # 145-6858
Guide	Int	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 185-0882
	Exh	140-3060	0.3547 I.D.,2.018 Length,0.5527 O.D.,OEM # 163-9256
Spring	Both	160-1499	1.674 Length,OEM # 176-3139
Lifter	Both	VL549	Mechanical Type,OEM # 138-2053

22 259 C.I., (4.25L), C4.2 ACERT, Diesel, OHV, 16 Valve C4.2
L4 259 CID BORE - 102.01mm/4.016""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1420E-2	1.420 O.D.,1.185R I.D.,0.2365 Depth,OEM # 305-4883
	Exh	SB1184E-1	1.184 O.D.,0.983 I.D.,0.2365 Depth,OEM # 305-4884
Valve	Int	13443	1.358 Head Diameter,OEM # 294-1684
	Exh	13444	1.083 Head Diameter,OEM # 294-1685
Stem Seal	Both	122-1498	Positive Type,Viton Material,Metal Clad Style,OEM # 199-2187
Guide	Both	140-3208	0.2610 I.D.,2.365 Length,0.4740 O.D.,OEM # 305-4885

23 260 C.I., (4.3L), 3064, Diesel, OHV, 8 Valve, ""Mitsubishi"" 3064_8V
L4 260 CID BORE - 102.17mm/4.02""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1815E-2	1.815 O.D.,1.570 I.D.,0.2610 Depth,OEM # 5I-8011; NOTE: Use With 5I-7738 Intake Valve W/ 1.732 Head Dia.
		SB1894E-4	1.894 O.D.,1.580T I.D.,0.2410 Depth,OEM # 212-8474; NOTE: Use With 212-8477 Intake Valve W/ 1.811 Head Dia.
	Exh	SB1540E-1	1.540 O.D.,1.295 I.D.,0.2610 Depth,OEM # 5I-8012
Valve	Int	13392	1.732 Head Diameter,OEM # 5I-7738; NOTE: Use With Valve Seat # 5I-8011
		13393	1.811 Head Diameter,OEM # 212-8477; NOTE: Use With Valve Seat # 212-8474
	Exh	13394	1.457 Head Diameter,OEM # 5I-7739
Stem Seal	Both	122-1476	Positive Type,Viton Material,All Metal Clad Style,OEM # 5I-7624
Guide	Int	140-3192	0.3155 I.D.,2.200 Length,0.5130 O.D.,OEM # 183-8172
	Exh	140-3193	0.3155 I.D.,1.970 Length,0.5130 O.D.,OEM # 183-8173

24 268 C.I., (4.4L), 3114, Diesel, OHV, 8 Valve 3114
L4 268 CID BORE - 105.0mm/4.134""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1969E-3	1.969 O.D.,1.704 I.D.,0.2340 Depth,OEM # 7W8065

(Cont'd) **CATERPILLAR / HEAVY DUTY**

268 C.I., (4.4L), 3114, Diesel, OHV, 8 Valve

3114 24

L4 268 CID

BORE - 105.0mm/4.134" (cont.)

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1969E-4N	1.969 O.D.,1.726T I.D.,0.2480 Depth,OEM # 130-9004
	Exh	SB1693E-8N	1.693 O.D.,1.458 I.D.,0.2340 Depth,+5 O/S Available,OEM # 1W2713
Valve	Int	01580	1.850 Head Diameter,OEM # 7W-8064
	Exh	01579S	1.575 Head Diameter,Stellite Face,OEM # 105-1779 & 136-0819
Keeper	Both	121-1079	1 RD Bead Type,OEM # 1W2715
Stem Seal	Both	122-1299	Positive Type,Viton Material,Top Hat Style,OEM # 119-3036
Guide	Both	140-8590	0.3180 I.D.,2.955 Length,0.5133 O.D.,OEM # 9Y8848
Spring	Both	160-1451	2.800 Length,Both W/O Engine Brake, Intake W/Engine Brake, OEM # 7C4273
Injector Tubes and Components		240-1002	Copper Material,Injector Tube,OEM # 119-3061

269 C.I., (4.4L), 3054 C & E, Diesel, OHV, 8 Valve, ""Perkins 1100C Series N/A & TURBO""

25

3054CE

L4 269 CID

BORE - 105.0mm/4.134" ""

PART		PART NO.	NOTES
Valve	Int	13137	1.823 Head Diameter,OEM # 225-5495
	Exh	13138	1.634 Head Diameter,OEM # 225-5499
Keeper	Both	121-1118	1 RD Bead Type,OEM # 147-1979
Stem Seal	Int	122-1434	Positive Type,Viton Material,Top Hat Style,OEM # 252-6438; NOTE: Green
	Exh	122-1435	Positive Type,Viton Material,Top Hat Style,OEM # 254-3954; NOTE: Brown
Guide	Both	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 185-0882
Spring	Both	160-1569	1.729 Length,Conical,OEM # 225-5496, 436-0519; NOTE: Alternative Aftermarket Design
Lifter	Both	VL549	Mechanical Type,OEM # 138-2053

269 C.I., (4.4L), C4.4, Diesel, OHV, 8 Valve, ""Perkins 1100C Series TURBO""

26

C4.4_8V

L4 269 CID

BORE - 105.0mm/4.134" ""

PART		PART NO.	NOTES
Valve	Int	13137	1.823 Head Diameter,OEM # 225-5495
	Exh	13138	1.634 Head Diameter,OEM # 225-5499
Keeper	Both	121-1118	1 RD Bead Type,OEM # 147-1979
Stem Seal	Int	122-1434	Positive Type,Viton Material,Top Hat Style,OEM # 252-6438; NOTE: Green
	Exh	122-1435	Positive Type,Viton Material,Top Hat Style,OEM # 254-3954; NOTE: Brown
Guide	Both	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 185-0882

269 C.I., (4.4L), C4.4 ACERT, Diesel, 16 Valve, ""TURBO""

27

C4.4_16V

L4 269 CID

BORE - 105.0mm/4.134" ""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1381E-1	1.381 O.D.,1.161T I.D.,0.2550 Depth,OEM # 377-0399, NOTE: With 6mm Stem Dia.
	Exh	SB1322E-1	1.322 O.D.,1.114T I.D.,0.2360 Depth,OEM # 377-0400, NOTE: With 6mm Stem Dia.
Valve	Int	13329	1.378 Head Diameter,OEM # 309-6678, NOTE: With 6mm Stem Dia.
	Exh	13330	1.299 Head Diameter,OEM # 339-9637, NOTE: With 6mm Stem Dia.
Keeper	Both	121-1093	3 RD Bead Type,OEM # 152-9860, NOTE: With 5.5mm Stem Dia.
		121-1098	3 RD Bead Type,OEM # 276-8123, NOTE: With 6mm Stem Dia.
Stem Seal	Both	122-1457	Positive Type,Viton Material,Top Hat Style,OEM # 299-5511, NOTE: With 6mm Stem Dia.

CATERPILLAR / HEAVY DUTY (Cont'd)

27 269 C.I., (4.4L), C4.4 ACERT, Diesel, 16 Valve, ""TURBO"" C4.4_16V
 (cont.) L4 269 CID BORE - 105.0mm/4.134""

PART		PART NO.	NOTES
Guide	Both	140-3164	0.2364 I.D., 1.820 Length, 0.3952 O.D., OEM # 380-2073, NOTE: With 6mm Stem Dia.

28 305 C.I., (5.0L), 3046, Diesel, OHV, 12 Valve, ""Mitsubishi S6S"" 3046
L6 305 CID BORE - 94.04mm/3.702""

PART		PART NO.	NOTES
Valve	Int	13063	1.732 Head Diameter, OEM # 233-5469
	Exh	13064	1.380 Head Diameter, OEM # 233-5470
Stem Seal	Both	122-1116	Positive Type, ACM Material, Metal Clad Style, OEM # 103-9260
Guide	Both	140-3097	0.3157 I.D., 1.970 Length, 0.4737 O.D., OEM # 103-9247
Spring	Both	160-1514	1.934 Length, OEM # 103-2782

29 318 C.I., (5.2L), 3204, Diesel, OHV, 8 Valve, ""Naturally Aspirated"" 3204NA
L4 318 CID BORE - 114.3mm/4.50""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2150E-1	2.150 O.D., 1-55/64 I.D., 0.2920 Depth, +10, +20 O/S Available, OEM # 2N8943
	Exh	SB1912E-1	1.912 O.D., 1 ⁵ / ₈ I.D., ⁹ / ₃₂ Depth, +20 O/S Available, OEM # 9N2837
Valve	Int	01379	2.094 Head Diameter, OEM #s 9L7682 & 9L8368
	Exh	01378	1.804 Head Diameter, OEM # 9L7683
Keeper	Both	121-1000	2 RD Bead Type, OEM # 2A4429
Guide	Int	140-7681	0.3735 I.D., 2.579 Length, 0.5020 O.D., Plain I.D. Conversion Guide, Optional, OEM # 4W3778
	Exh	140-7682	0.3735 I.D., 2.980 Length, 0.5021 O.D., Plain I.D. Conversion Guide, Optional, OEM # 4W3779
Spring	Both	160-1198	2.005 Length, OEM # 1W-4259, Replaces All Early SINGLE Spring Designs, Some Early Castings May Need The Spring Seat Machined To 1.660 Dia.
		160-1228	1.900 Length, OEM #s 9N3617, 9N3387.

30 318 C.I., (5.2L), 3204, Diesel, OHV, 8 Valve, ""TURBO"" 3204TD
L4 318 CID BORE - 114.3mm/4.50""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2150E-1	2.150 O.D., 1-55/64 I.D., 0.2920 Depth, +10, +20 O/S Available, OEM # 2N8943
	Exh	SB1912E-1	1.912 O.D., 1 ⁵ / ₈ I.D., ⁹ / ₃₂ Depth, +20 O/S Available, OEM # 9N2837
Valve	Int	01379	2.094 Head Diameter, OEM #s 9L7682 & 9L8368
	Exh	01497S	1.804 Head Diameter, Stellite Face, Turbo & H.O. OEM # 9N5125 & 119-6772
Keeper	Both	121-1000	2 RD Bead Type, OEM # 2A4429
Guide	Int	140-7681	0.3735 I.D., 2.579 Length, 0.5020 O.D., Plain I.D. Conversion Guide, Optional, OEM # 4W3778
	Exh	140-7682	0.3735 I.D., 2.980 Length, 0.5021 O.D., Plain I.D. Conversion Guide, Optional, OEM # 4W3779
Spring	Both	160-1198	2.005 Length, OEM # 1W-4259, Replaces All Early SINGLE Spring Designs, Some Early Castings May Need The Spring Seat Machined To 1.660 Dia.
		160-1228	1.900 Length, OEM #s 9N3617, 9N3387.

(Cont'd) **CATERPILLAR / HEAVY DUTY**

350 C.I., (5.7L), 1670, Diesel, OHV, 8 Valve
L4 350 CID

1670 **31**
BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2006E-2	2.006 O.D.,1 ¹¹ / ₁₆ T I.D., ⁷ / ₁₆ Depth,+10, +20 & +30 O/S Available,Exc. Direct Injection & Natural Gas
	Exh	SB1880E-2	1.880 O.D.,1 ⁹ / ₁₆ T I.D., ⁷ / ₁₆ Depth,+20 O/S Available,OEM # 9M6495
Valve	Int	00755	1.895 Head Diameter,OEM # 7M7358
	Exh	00753S	1.771 Head Diameter,Stellite Face,OEM #s 7M7360, 8N3724 & 9M4163
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Guide	Both	140-1906N	0.3771 I.D.,3.220 Length,0.6577 O.D.,Flanged,Old Style, OEM # 5S4507
		140-7242	0.3750 I.D.,3.180 Length,0.6585 O.D.,High Strength Alloy,New Style, OEM # 4N3668, +5 O/S Available
Spring	Both	160-1179	2.650 Length,OEM # 9H9164
Rotator	Exh	161-1028	OEM # 3S0461

350 C.I., (5.7L), D4CD, Gas, OHV, 8 Valve
L4 350 CID

D4CD **32**
BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2250-8	2 ¹ / ₄ O.D.,1 ¹³ / ₁₆ I.D., ¹ / ₄ Depth
	Exh	SB2000-13	2.000 O.D.,1 ⁵ / ₈ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	00755	1.895 Head Diameter,OEM # 7M7358
	Exh	00754	1.771 Head Diameter,OEM # 7M7359
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Guide	Both	140-1906N	0.3771 I.D.,3.220 Length,0.6577 O.D.,Flanged,Old Style, OEM # 5S4507
		140-7242	0.3750 I.D.,3.180 Length,0.6585 O.D.,High Strength Alloy,New Style, OEM # 4N3668, +5 O/S Available
Spring	Both	160-1179	2.650 Length,OEM # 2S5267

350 C.I., (5.7L), D312, Diesel, OHV, 8 Valve
L4 350 CID

D312 **33**
BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2006E-2	2.006 O.D.,1 ¹¹ / ₁₆ T I.D., ⁷ / ₁₆ Depth,+10, +20 & +30 O/S Available,Exc. Direct Injection & Natural Gas
	Exh	SB1880E-2	1.880 O.D.,1 ⁹ / ₁₆ T I.D., ⁷ / ₁₆ Depth,+20 O/S Available,OEM # 9M6495
Valve	Int	00755	1.895 Head Diameter,OEM # 7M7358
	Exh	00753S	1.771 Head Diameter,Stellite Face,OEM #s 7M7360, 8N3724 & 9M4163
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429

350 C.I., (5.7L), D315, Diesel, OHV, 8 Valve
L4 350 CID

D315 **34**
BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2150E-1	2.150 O.D.,1-55/64 I.D.,0.2920 Depth,+10, +20 O/S Available,OEM # 2N8943
	Exh	SB1912E-1	1.912 O.D.,1 ⁵ / ₈ I.D., ⁹ / ₃₂ Depth,+20 O/S Available,OEM # 9N2837
Valve	Int	00318	2.028 Head Diameter,OEM #s 4F213 & 6H3026
	Exh	00319	1.840 Head Diameter,OEM # 4F212
Guide	Both	140-1711	0.4405 I.D.,4.250 Length,0.8133 O.D.,To S/N 6U-110112 & 7U-28227, OEM # 4F6949.
		140-1888	0.4405 I.D.,4.250 Length,0.8140 O.D.,From S/N 6U-110112 & 7U-28227, OEM # 4H621

CATERPILLAR / HEAVY DUTY (Cont'd)

35 350 C.I., (5.7L), D315G, Diesel, OHV, 8 Valve

D315G

L4 350 CID

BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2150E-1	2.150 O.D., 1-55/64 I.D., 0.2920 Depth, +10, +20 O/S Available, OEM # 2N8943
	Exh	SB1912E-1	1.912 O.D., 1 ¹ / ₈ I.D., ⁹ / ₃₂ Depth, +20 O/S Available, OEM # 9N2837
Valve	Int	00318	2.028 Head Diameter, OEM #s 4F213 & 6H3026
	Exh	00319	1.840 Head Diameter, OEM # 4F212
Guide	Both	140-1711	0.4405 I.D., 4.250 Length, 0.8133 O.D., To S/N 6U-110112 & 7U-28227, OEM # 4F6949.
		140-1888	0.4405 I.D., 4.250 Length, 0.8140 O.D., From S/N 6U-110112 & 7U-28227, OEM # 4H621

36 350 C.I., (5.7L), D330A, Diesel, OHV, 8 Valve

D330A

L4 350 CID

BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2006E-2	2.006 O.D., 1 ¹¹ / ₁₆ I.D., ⁷ / ₁₆ Depth, +10, +20 & +30 O/S Available, Exc. Direct Injection & Natural Gas
	Exh	SB1880E-2	1.880 O.D., 1 ⁹ / ₁₆ I.D., ⁷ / ₁₆ Depth, +20 O/S Available, OEM # 9M6495
Valve	Int	00755	1.895 Head Diameter, OEM # 7M7358
	Exh	00753S	1.771 Head Diameter, Stellite Face, OEM #s 7M7360, 8N3724 & 9M4163
Keeper	Both	121-1000	2 RD Bead Type, OEM # 2A4429
Guide	Both	140-1906N	0.3771 I.D., 3.220 Length, 0.6577 O.D., Flanged, Old Style, OEM # 5S4507
		140-7242	0.3750 I.D., 3.180 Length, 0.6585 O.D., High Strength Alloy, New Style, OEM # 4N3668, +5 O/S Available
Spring	Both	160-1179	2.650 Length, OEM # 2S5267
Rotator	Exh	161-1028	OEM # 3S0461
Lifter	Both	170-1011	Mechanical Type, OEM # 7S3161

37 350 C.I., (5.7L), D330B, Diesel, OHV, 8 Valve

D330B

L4 350 CID

BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2006E-2	2.006 O.D., 1 ¹¹ / ₁₆ I.D., ⁷ / ₁₆ Depth, +10, +20 & +30 O/S Available, Exc. Direct Injection & Natural Gas
	Exh	SB1880E-2	1.880 O.D., 1 ⁹ / ₁₆ I.D., ⁷ / ₁₆ Depth, +20 O/S Available, OEM # 9M6495
Valve	Int	00755	1.895 Head Diameter, OEM # 7M7358
	Exh	00753S	1.771 Head Diameter, Stellite Face, OEM #s 7M7360, 8N3724 & 9M4163
Keeper	Both	121-1000	2 RD Bead Type, OEM # 2A4429
Guide	Both	140-1906N	0.3771 I.D., 3.220 Length, 0.6577 O.D., Flanged, Old Style, OEM # 5S4507
		140-7242	0.3750 I.D., 3.180 Length, 0.6585 O.D., High Strength Alloy, New Style, OEM # 4N3668, +5 O/S Available
Spring	Both	160-1179	2.650 Length, OEM # 2S5267
Rotator	Exh	161-1028	OEM # 3S0461
Lifter	Both	170-1011	Mechanical Type, OEM # 7S3161

38 365 C.I., (6.0L), 3056, Diesel, OHV, 12 Valve, ""Perkins T6.601/6.601 N/A & TURBO""

3056TNA

L6 365 CID

BORE - 100mm/3.94"

PART		PART NO.	NOTES
Valve	Int	05001	1.693 Head Diameter, OEM # 138-2052, 45 Degree
		13136	1.693 Head Diameter, OEM # 145-6855, 30 Degree
	Exh	05002S	1.620 Head Diameter, Stellite Face, OEM # 138-2050, 45 Degree
		13219	1.616 Head Diameter, OEM # 145-6857, 30 Degree
Keeper	Both	121-1118	1 RD Bead Type, OEM # 147-1979

(Cont'd) **CATERPILLAR / HEAVY DUTY**

365 C.I., (6.0L), 3056, Diesel, OHV, 12 Valve, ""Perkins T6.601/6.601 N/A & TURBO"" **38**
L6 365 CID BORE - 100mm/3.94"" 3056TNA (cont.)

PART		PART NO.	NOTES
Stem Seal	Int	122-1395	Positive Type,Viton Material,All Rubber Style,OEM # 145-6856
	Exh	122-1397	Positive Type,Viton Material,All Rubber Style,OEM # 145-6858
Guide	Int	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 185-0882
	Exh	140-3060	0.3547 I.D.,2.018 Length,0.5527 O.D.,OEM # 163-9256
Spring	Both	160-1498	1.847 Length,OEM # 206-4127
Lifter	Both	VL549	Mechanical Type,OEM # 138-2053

365 C.I., (6.0L), 3056, Diesel, OHV, 12 Valve, ""Perkins 1006.60 Naturally Aspirated"" **39**
L6 365 CID BORE - 100mm/3.94"" 3056NA

PART		PART NO.	NOTES
Valve	Int	01887	1.772 Head Diameter,OEM # 6I-0282
	Exh	01784	1.473 Head Diameter,OEM # 7W-4602
Keeper	Both	121-1018	1 RD Bead Type,OEM # 067-6834
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 1W-5849
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 160-5436
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 160-5438
Spring	Both	160-1496	1.672 Length,Inner, OEM # 6I-0284
		160-1497	1.809 Length,Outer, OEM # 6I-0283
Lifter	Both	VL549	Mechanical Type,OEM # 138-2053

365 C.I., (6.0L), 3056, Diesel, OHV, 12 Valve, ""Perkins 1006.60T TURBO"" **40**
L6 365 CID BORE - 100mm/3.94"" 3056T

PART		PART NO.	NOTES
Valve	Int	01887	1.772 Head Diameter,OEM # 6I-1196; NOTE: 45 Degree
		05000	1.772 Head Diameter,OEM # 100-4626; NOTE: 30 Degree
	Exh	01784	1.473 Head Diameter,OEM # 7W-4602
Keeper	Both	121-1018	1 RD Bead Type,OEM # 067-6834
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 1W-5849
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 160-5436
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 160-5438
Spring	Both	160-1496	1.672 Length,Inner, OEM # 6I-0284
		160-1497	1.809 Length,Outer, OEM # 6I-0283
Lifter	Both	VL549	Mechanical Type,OEM # 138-2053

390 C.I., (6.4L), 3066, Diesel, OHV, 12 Valve, ""Mitsubishi 7JK1"" **41**
L6 390 CID BORE - 102.027mm/4.017"" 3066_12V

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1815E-2	1.815 O.D.,1.570 I.D.,0.2610 Depth,OEM # 5I-8011; NOTE: Use With 5I-7738 Intake Valve W/ 1.732 Head Dia.
		SB1894E-4	1.894 O.D.,1.580T I.D.,0.2410 Depth,OEM # 212-8474; NOTE: Use With 212-8477 Intake Valve W/ 1.811 Head Dia.
		SB1540E-1	1.540 O.D.,1.295 I.D.,0.2610 Depth,OEM # 5I-8012
Valve	Int	13392	1.732 Head Diameter,OEM # 5I-7738; NOTE: Use With Valve Seat # 5I-8011
		13393	1.811 Head Diameter,OEM # 212-8477; NOTE: Use With Valve Seat # 212-8474
	Exh	13394	1.457 Head Diameter,OEM # 51-7739
Stem Seal	Both	122-1476	Positive Type,Viton Material,All Metal Clad Style,OEM # 5I-7624

CATERPILLAR / HEAVY DUTY (Cont'd)

41 390 C.I., (6.4L), 3066, Diesel, OHV, 12 Valve, ""Mitsubishi 7JK1"" 3066_12V
 (cont.) L6 390 CID BORE - 102.027mm/4.017""

PART		PART NO.	NOTES
Guide	Int	140-3192	0.3155 I.D., 2.200 Length, 0.5130 O.D., OEM # 183-8172
	Exh	140-3193	0.3155 I.D., 1.970 Length, 0.5130 O.D., OEM # 183-8173

42 390 C.I., (6.4L), C6.4 ACERT, Diesel, OHV, 24 Valve C6.4
 L6 390 CID BORE - 102.1mm/4.02""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1420E-2	1.420 O.D., 1.185R I.D., 0.2365 Depth, OEM # 305-4883
	Exh	SB1184E-1	1.184 O.D., 0.983 I.D., 0.2365 Depth, OEM # 305-4884
Valve	Int	13443	1.358 Head Diameter, OEM # 294-1684
	Exh	13444	1.083 Head Diameter, OEM # 294-1685
Stem Seal	Both	122-1498	Positive Type, Viton Material, Metal Clad Style, OEM # 199-2187
Guide	Both	140-3208	0.2610 I.D., 2.365 Length, 0.4740 O.D., OEM # 305-4885

43 403 C.I., (6.6L), 3116, Diesel, OHV, 12 Valve 3116
 L6 403 CID BORE - 104.99mm/4.133""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1969E-3	1.969 O.D., 1.704 I.D., 0.2340 Depth, OEM # 7W8065
		SB1969E-4N	1.969 O.D., 1.726T I.D., 0.2480 Depth, OEM # 130-9004; NOTE: Can Also Be Used For OEM # 163-9063
	Exh	SB1693E-8N	1.693 O.D., 1.458 I.D., 0.2340 Depth, +5 O/S Available, OEM # 1W2713
Valve	Int	01580	1.850 Head Diameter, OEM # 7W8064
		02231	1.850 Head Diameter, OEM # 161-4280
	Exh	01579S	1.575 Head Diameter, Stellite Face, OEM # 105-1779 or 136-0819
Keeper	Both	121-1079	1 RD Bead Type, OEM # 1W2715
Stem Seal	Both	122-1299	Positive Type, Viton Material, Top Hat Style, OEM # 119-3036
Guide	Both	140-8590	0.3180 I.D., 2.955 Length, 0.5133 O.D., OEM # 9Y8848
Spring	Both	160-1451	2.800 Length, Both W/O Engine Brake & Marine, Intake W/Engine Brake, OEM # 7C4273
Injector Tubes and Components		240-1002	Copper Material, Injector Tube, OEM # 1193061

44 403 C.I., (6.6L), C6.6 ACERT, Diesel, OHV, 24 Valve, ""TURBO"" C6.6
 L6 403 CID BORE - 105.025mm/4.1348""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1381E-1	1.381 O.D., 1.161T I.D., 0.2550 Depth, OEM # 377-0399, NOTE: With 6mm Stem Dia.
	Exh	SB1322E-1	1.322 O.D., 1.114T I.D., 0.2360 Depth, OEM # 377-0400, NOTE: With 6mm Stem Dia.
Valve	Int	13329	1.378 Head Diameter, OEM # 309-6678, NOTE: With 6mm Stem Dia.
	Exh	13330	1.299 Head Diameter, OEM # 339-9637, NOTE: With 6mm Stem Dia.
Keeper	Both	121-1093	3 RD Bead Type, OEM # 152-9860, NOTE: With 5.5mm Stem Dia.
		121-1098	3 RD Bead Type, OEM # 276-8123, NOTE: With 6mm Stem Dia.
Stem Seal	Both	122-1457	Positive Type, Viton Material, Top Hat Style, OEM # 299-5511, NOTE: With 6mm Stem Dia.
Guide	Both	140-3164	0.2364 I.D., 1.820 Length, 0.3952 O.D., OEM # 380-2073, NOTE: With 6mm Stem Dia.

45 425 C.I., (7.0L), D330C, Diesel, OHV, 8 Valve D330C
 L4 425 CID BORE - 120.65mm/4.75""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2129E-1	2.129 O.D., 1 ¹³ / ₁₆ T I.D., 7 ¹ / ₁₆ Depth, OEM Replacement for OEM # 5S7218

(Cont'd) **CATERPILLAR / HEAVY DUTY**

425 C.I., (7.0L), D330C, Diesel, OHV, 8 Valve
L4 425 CID

D330C 45
BORE - 120.65mm/4.75" (cont.)

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2131E-1	2.131 O.D., ¹ / ₁₆ T I.D., ⁷ / ₁₆ Depth,+10, +20 & +30 O/S Available,To S/N 76R3176
	Exh	SB2004E-2	2.003 O.D., ¹ / ₁₆ T I.D., ⁷ / ₁₆ Depth,OEM Replacement for OEM # 5S7221 & 1W5321
		SB2006E-2	2.006 O.D., ¹ / ₁₆ T I.D., ⁷ / ₁₆ Depth,+10, +20 & +30 O/S Available,Exc. Direct Injection & Natural Gas
Valve	Int	01204	2.020 Head Diameter,5.510 Overall Length, Indirect Injection N/A, OEM # 5S6452.
		01314S	2.020 Head Diameter,Stellite Face,5.510 Overall Length, Indirect Injection Turbo, OEM # 9N6117, Incl. Spark Ignited Short Valve.
		01631S	2.020 Head Diameter,Stellite Face,6.437 Overall Length, Spark Ignited, OEM # 7W7490, Long Valve.
		01760S	2.020 Head Diameter,Stellite Face,5.350 Overall Length, OEM # 100-7860, Small Margin Valve, Direct Injected
	Exh	01203	1.896 Head Diameter,5.469 Overall Length, Indirect Injection N/A, OEM # 5S6449.
		01205S	1.896 Head Diameter,Stellite Face,5.469 Overall Length, Indirect Injection Turbo, OEM # 8N0875.
		01491S	1.896 Head Diameter,Stellite Face,5.469 Overall Length, Spark Ignited, OEM # 2W2877 Short Valve.
		01630S	1.896 Head Diameter,Stellite Face,6.396 Overall Length, Spark Ignited, OEM # 7W7491, Long Valve.
		01761S	1.896 Head Diameter,Stellite Face,5.300 Overall Length, OEM # 148-7455, Small Margin Valve, Direct Injected
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1328	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 6N-7174, Use W/ 161-1018 Rotocoil W/ Direct Injection
Guide	Both	140-3037	0.3743 I.D.,2.780 Length,0.6580 O.D.,OEM # 1487425, 1487502, 1621589, +2 O/S Available
		140-7194	0.3750 I.D.,2.781 Length,0.6578 O.D.,All Exc. Spark Ignited & Natural Gas, OEM # 2P1262, +2 & +5 O/S Available
		140-7194SA	0.3750 I.D.,2.781 Length,0.6578 O.D.,""Special Alloy"", For Ultra Low Sulfur Diesel
		140-8220	0.3750 I.D.,3.700 Length,0.6578 O.D.,High Strength Alloy,Natural Gas, OEM # 7W7489. Long Valve Eng.
		140-8408	0.3750 I.D.,2.775 Length,0.6580 O.D.,High Strength Alloy,Natural Gas, OEM # 7N4310, Short Valve Engine
		140-8486	0.3750 I.D.,3.230 Length,0.6580 O.D.,Hardened,Short Valve Eng.
		140-8594	0.3750 I.D.,2.640 Length,0.6578 O.D.,High Strength Alloy,Improved Cooling, OEM # 7E1551, Short Valve Engine
Spring	Both	160-1192	2.050 Length,OEM # 7S7144; This Spring Works With Both Long & Short Valves
Rotator	Both	161-1018	OEM # 8N7782, 103-1800
Lifter	Both	170-1011	Mechanical Type,OEM # 7S3161

425 C.I., (7.0L), 3304, Diesel, OHV, 8 Valve, ""N/A & TURBO""
L4 425 CID

3304 46
BORE - 120.65mm/4.75" (cont.)

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2049E-1	2.049 O.D., ¹ / ₃₂ T I.D., ¹ / ₃₂ Depth,+5, +10 & +20 O/S Available,Direct Injected, Includes Spark Ignited, OEM # 7N4448, 107-0268, From S/N 76R3177
		SB2129E-1	2.129 O.D., ¹ / ₁₆ T I.D., ⁷ / ₁₆ Depth,OEM Replacement for OEM # 5S7218
		SB2131E-1	2.131 O.D., ¹ / ₁₆ T I.D., ⁷ / ₁₆ Depth,+10, +20 & +30 O/S Available,To S/N 76R3176

CATERPILLAR / HEAVY DUTY (Cont'd)

46 425 C.I., (7.0L), 3304, Diesel, OHV, 8 Valve, ""N/A & TURBO""
(cont.) L4 425 CID

3304
BORE - 120.65mm/4.75""

PART	PART NO.	NOTES
Valve Seat Insert	Exh SB2004E-2	2.003 O.D., 1 ¹¹ / ₁₆ T I.D., 7 ¹ / ₁₆ Depth, OEM Replacement for OEM # 5S7221 & 1W5321
	SB2004E-3N	2.004 O.D., 1.685T I.D., 0.3170 Depth, +5, +10, & +20 O/S Available, Direct Injection, OEM # 2W4837, 107-0265
	SB2004E-4N	2.004 O.D., 1.688 I.D., 0.4380 Depth, OEM # 7N1649; Spark Ignited
	SB2006E-2	2.006 O.D., 1 ¹¹ / ₁₆ T I.D., 7 ¹ / ₁₆ Depth, +10, +20 & +30 O/S Available, Exc. Direct Injection & Spark Ignited
Valve	Int 01204	2.020 Head Diameter, 5.510 Overall Length, Indirect Injection N/A, OEM # 5S6452.
	01314S	2.020 Head Diameter, Stellite Face, 5.510 Overall Length, Indirect Injection Turbo, OEM # 9N6117, Incl. Spark Ignited Short Valve.
	01631S	2.020 Head Diameter, Stellite Face, 6.437 Overall Length, Spark Ignited, OEM # 7W7490, Long Valve.
	01760S	2.020 Head Diameter, Stellite Face, 5.350 Overall Length, OEM # 100-7860, Small Margin Valve, Direct Injected
	Exh 01203	1.896 Head Diameter, 5.469 Overall Length, Indirect Injection N/A, OEM # 5S6449.
	01205S	1.896 Head Diameter, Stellite Face, 5.469 Overall Length, Indirect Injection Turbo, OEM # 8N0875
	01491S	1.896 Head Diameter, Stellite Face, 5.469 Overall Length, Spark Ignited, OEM # 2W2877 Short Valve.
	01630S	1.896 Head Diameter, Stellite Face, 6.396 Overall Length, Spark Ignited, OEM # 7W7491, Long Valve.
01761S	1.896 Head Diameter, Stellite Face, 5.300 Overall Length, OEM # 148-7455, Small Margin Valve, Direct Injected	
Keeper	Both 121-1000	2 RD Bead Type, OEM # 2A4429
Stem Seal	Both 122-1328	Umbrella Type, Nylon Material, Oil Shield Style, OEM # 6N-7174, Use W/ 161-1018 Rotocoil W/ Direct Injection
Guide	Both 140-3037	0.3743 I.D., 2.780 Length, 0.6580 O.D., OEM # 1487425, 1487502, 1621589, +2 O/S Available
	140-7194	0.3750 I.D., 2.781 Length, 0.6578 O.D., All Exc. Spark Ignited & Natural Gas, OEM # 2P1262, +2 & +5 O/S Available
	140-7194SA	0.3750 I.D., 2.781 Length, 0.6578 O.D., ""Special Alloy"", For Ultra Low Sulfur Diesel
	140-8220	0.3750 I.D., 3.700 Length, 0.6578 O.D., High Strength Alloy, Natural Gas, OEM # 7W7489, Long Valve Eng.
	140-8408	0.3750 I.D., 2.775 Length, 0.6580 O.D., High Strength Alloy, Natural Gas, OEM # 7N4310, Short Valve Engine
	140-8594	0.3750 I.D., 2.640 Length, 0.6578 O.D., High Strength Alloy, Improved Cooling, OEM # 7E1551, Short Valve Engine
Spring	Both 160-1192	2.050 Length, OEM # 7S7144; This Spring Works With Both Long & Short Valves
Rotator	Both 161-1018	OEM # 8N7782, 103-1800
Lifter	Both 170-1011	Mechanical Type, OEM # 7S3161
Injector Tubes and Components	240-1000	Brass Material, Water Director, Long, OEM # 5H7071

47 425 C.I., (7.0L), G3304, Gas, OHV, 8 Valve
L4 425 CID

G3304
BORE - 120.65mm/4.75""

PART	PART NO.	NOTES
Valve Seat Insert	Int SB2049E-1	2.049 O.D., 1 ²⁵ / ₃₂ T I.D., 1 ¹ / ₃₂ Depth, +5, +10 & +20 O/S Available, OEM # 7N4448, 107-0268
	Exh SB2129E-1	2.129 O.D., 1 ¹³ / ₁₆ T I.D., 7 ¹ / ₁₆ Depth, OEM # 5S7218
	SB2004E-4N	2.004 O.D., 1.688 I.D., 0.4380 Depth, OEM # 7N1649

(Cont'd) **CATERPILLAR / HEAVY DUTY**

425 C.I., (7.0L), G3304, Gas, OHV, 8 Valve
L4 425 CID

G3304 47
BORE - 120.65mm/4.75" (cont.)

PART		PART NO.	NOTES
Valve	Int	01314S	2.020 Head Diameter,Stellite Face,OEM # 9N6117; Short Valve; 5.510 Overall Length
		01631S	2.020 Head Diameter,Stellite Face,OEM # 7W7490; Long Valve, 6.437 Overall Length
	Exh	01491S	1.896 Head Diameter,Stellite Face,OEM # 2W2877; Short Valve, 5.469 Overall Length
		01630S	1.896 Head Diameter,Stellite Face,OEM # 7W7491, Long Valve, 6.396 Overall Length,
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Int	122-1505	Postive Type,Viton Material,Ring & Band Style,OEM # 7W9143
	Both	122-1328	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 6N-7174, Use W/ 161-1018 Rotocoil
Guide	Both	140-8220	0.3750 I.D.,3.700 Length,0.6578 O.D.,High Strength Alloy,OEM # 7W7489, Long Valve Eng.
		140-8408	0.3750 I.D.,2.775 Length,0.6580 O.D.,High Strength Alloy,OEM # 7N4310, Short Valve Engine
		140-8594	0.3750 I.D.,2.640 Length,0.6578 O.D.,High Strength Alloy,OEM # 7E1551, Improved Cooling, Short Valve Engine
Spring	Both	160-1192	2.050 Length,OEM # 7S7144; This Spring Works With Both Long & Short Valves
Rotator	Both	161-1018	OEM # 8N7782, 103-1800
Lifter	Both	170-1011	Mechanical Type,OEM # 7S3161

428 C.I., (7.0L), C7.1 ACERT, Diesel, OHV, 24 Valve, ""TURBO""
L6 428 CID

C7.1 48
BORE - 105.0mm/4.134"'''

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1381E-1	1.381 O.D.,1.161T I.D.,0.2550 Depth,OEM # 377-0399, NOTE: With 6mm Stem Dia.
	Exh	SB1322E-1	1.322 O.D.,1.114T I.D.,0.2360 Depth,OEM # 377-0400, NOTE: With 6mm Stem Dia.
Valve	Int	13329	1.378 Head Diameter,OEM # 309-6678, NOTE: With 6mm Stem Dia.
	Exh	13330	1.299 Head Diameter,OEM # 339-9637, NOTE: With 6mm Stem Dia.
Keeper	Both	121-1093	3 RD Bead Type,OEM # 152-9860, NOTE: With 5.5mm Stem Dia.
		121-1098	3 RD Bead Type,OEM # 276-8123, NOTE: With 6mm Stem Dia.
Stem Seal	Both	122-1457	Positive Type,Viton Material,Top Hat Style,OEM # 299-5511, NOTE: With 6mm Stem Dia.
Guide	Both	140-3164	0.2364 I.D.,1.820 Length,0.3952 O.D.,OEM # 380-2073, , NOTE: With 6mm Stem Dia.

442 C.I., (7.2L), 3126, Diesel, OHV, 12 Valve, ""TURBO""
L6 442 CID

3126 49
BORE - 110mm/4.33"'''

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1969E-4N	1.969 O.D.,1.726T I.D.,0.2480 Depth,OEM # 130-9004; NOTE: Can Also Be Used For OEM # 163-9063
	Exh	SB1693E-8N	1.693 O.D.,1.458 I.D.,0.2340 Depth,+5 O/S Available,OEM # 1W2713
Valve	Int	02231	1.850 Head Diameter,OEM # 161-4280
	Exh	01579S	1.575 Head Diameter,Stellite Face,OEM # 105-1779 & 136-0819
Keeper	Both	121-1079	1 RD Bead Type,OEM # 1W2715
Stem Seal	Both	122-1299	Positive Type,Viton Material,Top Hat Style,OEM # 119-3036
Guide	Both	140-8590	0.3180 I.D.,2.955 Length,0.5133 O.D.,OEM # 9Y8848
Spring	Both	160-1451	2.800 Length,Both W/O Engine Brake & Marine, Intake W/Engine Brake, OEM # 7C4273

CATERPILLAR / HEAVY DUTY (Cont'd)

49 442 C.I., (7.2L), 3126, Diesel, OHV, 12 Valve, ""TURBO"" 3126
 (cont.) L6 442 CID BORE - 110mm/4.33""

PART	PART NO.	NOTES
Injector Tubes and Components	240-1002	Copper Material,Injector Tube,OEM # 119-3061

50 442 C.I., (7.2L), 3126B, Diesel, OHV, 18 Valve, ""TURBO"" 3126B
 L6 442 CID BORE - 110mm/4.33""

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1656E-1 Exh SB1656E-3	1.656 O.D.,1.410 I.D.,0.2580 Depth,OEM # 155-9504; NOTE: W/.258 Depth
	Exh SB1814E-4C	1.656 O.D.,1.410 I.D.,0.2180 Depth,OEM # 217-5213, 264-6157; NOTE: W/.218 Depth
Valve	Int 02161S Exh 02160S	1.814 O.D.,1.550 I.D.,0.2400 Depth,OEM # 147-8218
Valve	Int 02161S Exh 02160S	1.575 Head Diameter,Stellite Face,OEM # 145-7390
Keeper	Int 121-1079 Exh 121-1000	1.693 Head Diameter,Stellite Face,OEM # 147-8211
Keeper	Int 121-1079 Exh 121-1000	1 RD Bead Type,OEM # 1W2715
Stem Seal	Int 122-1364 Exh 122-1373	2 RD Bead Type,OEM # 2A4429
Stem Seal	Int 122-1364 Exh 122-1373	Positive Type,Viton Material,Top Hat Style,OEM # 147-8214
Guide	Int 140-3038 Exh 140-3039	Positive Type,Viton Material,Metal Clad Style,OEM # 102-6229, 163-2478
Guide	Int 140-3038 Exh 140-3039	0.3178 I.D.,3.175 Length,0.5130 O.D.,OEM # 140-9670
Spring	Int 160-1453 Exh 160-1454	0.3745 I.D.,3.350 Length,0.6300 O.D.,OEM # 147-8220
Spring	Int 160-1453 Exh 160-1454	2.660 Length,OEM # 140-6188
Injector Tubes and Components	240-1003 240-1003R	2.660 Length,OEM # 140-6188 3.627 Length,OEM # 137-6718
Injector Tubes and Components	240-1003 240-1003R	Stainless Steel Material,Injector Tube,OEM # 124-0811, 157-8373, 159-0300, 227-2911
Injector Tubes and Components	240-1003R	Viton Material,O-Ring, Green or Brown,OEM # 8C0563, NOTE: 2 Required

51 442 C.I., (7.2L), C7 ACERT, Diesel, OHV, 18 Valve, ""TURBO"" C7A
 L6 442 CID BORE - 110mm/4.33""

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1656E-1 Exh SB1656E-3	1.656 O.D.,1.410 I.D.,0.2580 Depth,OEM # 155-9504; NOTE: W/.258 Depth
	Exh SB1814E-4C	1.656 O.D.,1.410 I.D.,0.2180 Depth,OEM # 217-5213, 264-6157; NOTE: W/.218 Depth
Valve	Int 02161S Exh 02160S	1.814 O.D.,1.550 I.D.,0.2400 Depth,OEM # 147-8218, 232-1285
Valve	Int 02161S Exh 02160S	1.575 Head Diameter,Stellite Face,OEM # 145-7390, 252-7801; NOTE: Except Marine
Keeper	Int 121-1079 Exh 121-1000	1.693 Head Diameter,Stellite Face,OEM # 147-8211; NOTE: Except Marine
Keeper	Int 121-1079 Exh 121-1000	1 RD Bead Type,OEM # 1W2715
Stem Seal	Int 122-1364 Exh 122-1373	2 RD Bead Type,OEM # 2A4429
Stem Seal	Int 122-1364 Exh 122-1373	Positive Type,Viton Material,Top Hat Style,OEM # 147-8214
Guide	Int 140-3038 Exh 140-3039	Positive Type,Viton Material,Metal Clad Style,OEM # 163-2478
Guide	Int 140-3038 Exh 140-3039	0.3178 I.D.,3.175 Length,0.5130 O.D.,OEM # 140-9670
Spring	Int 160-1453 Exh 160-1454	0.3745 I.D.,3.350 Length,0.6300 O.D.,OEM # 147-8220
Spring	Int 160-1453 Exh 160-1454	2.660 Length,OEM # 140-6188
Injector Tubes and Components	240-1036 240-1036RB 240-1036RT 240-1041 240-1041RB 240-1041RT	3.627 Length,OEM # 137-6718
Injector Tubes and Components	240-1036	Stainless Steel Material,Injector Tube,OEM # 227-1200
Injector Tubes and Components	240-1036RB	Aflas Material,O-Ring, Bottom; Teal,OEM # 310-7257
Injector Tubes and Components	240-1036RT	Viton Material,O-Ring, Top; Blue,OEM # 310-7255
Injector Tubes and Components	240-1041	Stainless Steel Material,Injector Tube,OEM # 261-0193
Injector Tubes and Components	240-1041RB	Aflas Material,O-Ring, Bottom; Green,OEM # 310-7259
Injector Tubes and Components	240-1041RT	Viton Material,O-Ring, Top; Navy,OEM # 310-7258

(Cont'd) **CATERPILLAR / HEAVY DUTY**

525 C.I., (8.6L), D6B, Gas, OHV, 12 Valve
L6 525 CID

D6B 52
BORE- 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2250-8	2¼ O.D., 1 ¹³ / ₁₆ I.D., ¼ Depth
	Exh	SB2000-13	2.000 O.D., 1 ⁵ / ₈ I.D., ¼ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	00755	1.895 Head Diameter, OEM # 7M7358
	Exh	00754	1.771 Head Diameter, OEM # 7M7359
Keeper	Both	121-1000	2 RD Bead Type, OEM # 2A4429
Guide	Both	140-1906N	0.3771 I.D., 3.220 Length, 0.6577 O.D., Flanged, Old Style, OEM # 5S4507
		140-7242	0.3750 I.D., 3.180 Length, 0.6585 O.D., High Strength Alloy, New Style, OEM # 4N3668, +5 O/S Available
Spring	Both	160-1179	2.650 Length, OEM # 2S5267

525 C.I., (8.6L), D318, Diesel, OHV, 12 Valve
L6 525 CID

D318 53
BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2150E-1	2.150 O.D., 1-55/64 I.D., 0.2920 Depth, +10, +20 O/S Available, OEM # 2N8943
	Exh	SB1912E-1	1.912 O.D., 1 ⁵ / ₈ I.D., ⁹ / ₃₂ Depth, +20 O/S Available, OEM # 9N2837
Valve	Int	00318	2.028 Head Diameter, OEM #s 4F213 & 6H3026
	Exh	00319	1.840 Head Diameter, OEM # 4F212
Guide	Both	140-1711	0.4405 I.D., 4.250 Length, 0.8133 O.D., To S/N 6U-110112 & 7U-28227, OEM # 4F6949.
		140-1888	0.4405 I.D., 4.250 Length, 0.8140 O.D., From S/N 6U-110112 & 7U-28227, OEM # 4H621

525 C.I., (8.6L), D318G, Diesel, OHV, 12 Valve
L6 525 CID

D318G 54
BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2150E-1	2.150 O.D., 1-55/64 I.D., 0.2920 Depth, +10, +20 O/S Available, OEM # 2N8943
	Exh	SB1912E-1	1.912 O.D., 1 ⁵ / ₈ I.D., ⁹ / ₃₂ Depth, +20 O/S Available, OEM # 9N2837
Valve	Int	00318	2.028 Head Diameter, OEM #s 4F213 & 6H3026
	Exh	00319	1.840 Head Diameter, OEM # 4F212
Guide	Both	140-1711	0.4405 I.D., 4.250 Length, 0.8133 O.D., To S/N 6U-110112 & 7U-28227, OEM # 4F6949.
		140-1888	0.4405 I.D., 4.250 Length, 0.8140 O.D., From S/N 6U-110112 & 7U-28227, OEM # 4H621

525 C.I., (8.6L), D333A, Diesel, OHV, 12 Valve
L6 525 CID

D333A 55
BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2006E-2	2.006 O.D., 1 ¹¹ / ₁₆ I.D., ⁷ / ₁₆ Depth, +10, +20 & +30 O/S Available, Exc. Direct Injection & Natural Gas
	Exh	SB1880E-2	1.880 O.D., 1 ⁹ / ₁₆ I.D., ⁷ / ₁₆ Depth, +20 O/S Available, OEM # 9M6495
Valve	Int	00755	1.895 Head Diameter, OEM # 7M7358
	Exh	00753S	1.771 Head Diameter, Stellite Face, OEM #s 7M7360, 8N3724 & 9M4163
Keeper	Both	121-1000	2 RD Bead Type, OEM # 2A4429
Guide	Both	140-1906N	0.3771 I.D., 3.220 Length, 0.6577 O.D., Flanged, Old Style, OEM # 5S4507
		140-7242	0.3750 I.D., 3.180 Length, 0.6585 O.D., High Strength Alloy, New Style, OEM # 4N3668, +5 O/S Available
Spring	Both	160-1179	2.650 Length, OEM # 2S5267
Rotator	Exh	161-1028	OEM # 3S0461
Lifter	Both	170-1011	Mechanical Type, OEM # 7S3161

CATERPILLAR / HEAVY DUTY (Cont'd)

56 525 C.I., (8.6L), 1673, Diesel, OHV, 12 Valve

1673

L6 525 CID

BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2006E-2	2.006 O.D., 1 ¹¹ / ₁₆ T I.D., 7 ¹ / ₁₆ Depth, +10, +20 & +30 O/S Available, Exc. Direct Injection & Natural Gas
	Exh	SB1880E-2	1.880 O.D., 1 ⁹ / ₁₆ T I.D., 7 ¹ / ₁₆ Depth, +20 O/S Available, OEM # 9M6495
Valve	Int	00755	1.895 Head Diameter, OEM # 7M7358
	Exh	00753S	1.771 Head Diameter, Stellite Face, OEM #s 7M7360, 8N3724 & 9M4163
Keeper	Both	121-1000	2 RD Bead Type, OEM # 2A4429
Guide	Both	140-7194	0.3750 I.D., 2.781 Length, 0.6578 O.D., All Exc. Spark Ignited & Natural Gas, OEM # 2P1262, +2 & +5 O/S Available
		140-7194SA	0.3750 I.D., 2.781 Length, 0.6578 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
Spring	Both	160-1179	2.650 Length, OEM # 9H9164
Rotator	Exh	161-1028	OEM # 3S0461
Lifter	Both	170-1011	Mechanical Type, OEM # 7S3161

57 537 C.I., (8.8L), C9 ACERT, Diesel, OHV, 24 Valve, "TURBO"

C9A

L6 537 CID

BORE - 112mm/4.41"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1459E-1	1.459 O.D., 1.200 I.D., 0.2170 Depth, OEM # 212-8918, W/ 1.417 Head Dia.
		SB1577E-1	1.577 O.D., 1.340T I.D., 0.2200 Depth, +10 & +20 O/S Available, OEM # 241-8388; W/1.535 Head Dia.
	Exh	SB1479E-1C	1.479 O.D., 1.210T I.D., 0.2570 Depth, OEM # 212-8917
Valve	Int	02260S 13192S	1.417 Head Diameter, Stellite Face, OEM # 163-2442; W/ .3717 Stem Dia. 1.535 Head Diameter, Stellite Face, OEM # 241-8382, 252-7803; ACERT, W/.315 Stem Dia. & Single Groove
	Exh	02261 13193	1.417 Head Diameter, Inconel, OEM # 188-3122; W/ .3717 Stem Dia. 1.417 Head Diameter, Inconel, OEM # 241-8383; NOTE: ACERT, 7.269 Length
Keeper	Int	121-1079	1 RD Bead Type, OEM # 1W-2715, 5 ¹ / ₁₆ Stem Dia., NOTE: ACERT
	Both	121-1000	2 RD Bead Type, OEM # 2A-4429, 3 ¹ / ₈ Stem Dia., NOTE: Exhaust Only ACERT
Stem Seal	Int	122-1424	Positive Type, Viton Material, Metal Clad Style, OEM # 241-8390; NOTE: ACERT, Use W/ 0.315 Stem Valve
	Both	122-1373	Positive Type, Viton Material, Metal Clad Style, OEM # 163-2478; NOTE: Exhaust Only ACERT
Guide	Int	140-3123	0.3180 I.D., 3.155 Length, 0.5133 O.D., +5 & +20 O/S Also Available, OEM # 241-8389, 259-5829; NOTE: ACERT, Use With 5 ¹ / ₁₆ Stem
	Both	140-3058	0.3745 I.D., 3.155 Length, 0.6298 O.D., +2 & +5 O/S Also Available, OEM # 163-2444, 260-4856; NOTE: Exhaust Only ACERT; +2 O/S Also Available
Spring	Int	160-1586	2.371 Length, Inner, OEM # 241-8386; NOTE: ACERT
		160-1587	2.982 Length, Outer, OEM # 241-8385; NOTE: ACERT
	Exh	160-1572	2.319 Length, Outer, OEM # 190-6117; NOTE: ACERT
		160-1577	2.352 Length, Inner, OEM # 190-6115; NOTE: ACERT
	Both	160-1572	2.319 Length, Outer, OEM # 190-6117; NOTE: Non-ACERT
160-1577		2.352 Length, Inner, OEM # 190-6115; NOTE: Non-ACERT	
Injector Tubes and Components		240-1036	Stainless Steel Material, Injector Tube, OEM # 227-1200
		240-1036RB	Aflas Material, O-Ring, Bottom; Teal, OEM # 310-7257
		240-1036RT	Viton Material, O-Ring, Top; Blue, OEM # 310-7255

(Cont'd) **CATERPILLAR / HEAVY DUTY**

568 C.I., (9.3L), C9.3 ACERT, Diesel, OHV, 24 Valve, ""TURBO""

C9.3 58

L6 568 CID

BORE - 115.0mm/4.53""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1676E-2	1.676 O.D.,1.437 I.D.,0.2190 Depth,OEM # 255-8666; NOTE: Includes Marine
	Exh	SB1538E-3	1.538 O.D.,1.280T I.D.,0.2560 Depth,OEM # 262-2959; NOTE: Includes Marine
Valve	Int	13420	1.634 Head Diameter,OEM # 262-2957, 490-1729; NOTE: Includes Marine
	Exh	13421	1.476 Head Diameter,Inconel,OEM # 255-8676, 369-5921, 490-1728, 490-1730; NOTE: Includes Marine
Keeper	Both	121-1079	1 RD Bead Type,OEM # 1W-2715; NOTE: Includes Marine
Stem Seal	Both	122-1424	Positive Type,Viton Material,Metal Clad Style,OEM # 241-8390; NOTE: W/ Garter Spring
		122-1487	Positive Type,Viton Material,Metal Clad Style,OEM # 312-8619; NOTE: W/O Garter Spring, Includes Marine
Guide	Both	140-3194	0.3178 I.D.,2.407 Length,0.5130 O.D.,OEM # 255-8665; NOTE: Includes Marine
Spring	Both	160-1670	2.981 Length,OEM # 255-8677; NOTE: Inner; W/ White Stripe
		160-1671	3.174 Length,OEM # 255-8678; NOTE: Outer; W/ White Stripe
		160-1672	2.985 Length,OEM # 349-5303; NOTE: Inner, W/Yellow Stripe, Includes Marine
		160-1673	3.097 Length,OEM # 349-5307; NOTE: Outer, W/Yellow Stripe, Includes Marine
Injector Tubes and Components		240-1041RB	Aflas Material,O-Ring, Bottom; Green,OEM # 310-7259
		240-1041RT	Viton Material,O-Ring, Top; Navy,OEM # 310-7258
		240-1055	Stainless Steel Material,Injector Tube,OEM # 325-6575

629 C.I., (10.3L), C10, Diesel, OHV, 24 Valve, ""TURBO""

C10 59

L6 629 CID

BORE - 125mm/4.9212""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812E-8	1.812 O.D.,1.530T I.D.,0.3650 Depth,OEM # 138-1999, 138-2006, 179-9454
	Exh	SB1711E-1C	1.711 O.D.,1.416T I.D.,0.3780 Depth,OEM # 138-1997, 138-2005, 179-9453
Valve	Int	01582	1.772 Head Diameter,OEM # 7E-9578.
		01582S	1.772 Head Diameter,Stellite Face,OEM # 1242692, 1929212, Engines W/ 280-370 HP
	Exh	01581S	1.654 Head Diameter,Stellite Face,OEM #s 7C-1586, 7E-9577, 122-2693, 133-7029
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1177	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 7E7978
Guide	Both	140-8592	0.3745 I.D.,2.785 Length,0.6305 O.D.,OEM # 1008150, +2 O/S Available
Spring	Both	160-1462	2.512 Length,Inner, OEM # 224-4441
		160-1463	2.523 Length,Outer, OEM # 214-0586, 332-2152
Rotator	Both	161-1041	OEM # 7E7977; NOTE: Includes Oil Shield
Injector Tubes and Components		240-1005	Stainless Steel Material,Injector Tube,OEM # 116-1102

629 C.I., (10.3L), 3176, Diesel, OHV, 24 Valve, ""TURBO""

3176 60

L6 629 CID

BORE - 124.87mm/4.92""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812E-8	1.812 O.D.,1.530T I.D.,0.3650 Depth,OEM # 138-1999, 138-2006, 179-9454

CATERPILLAR / HEAVY DUTY (Cont'd)

60 629 C.I., (10.3L), 3176, Diesel, OHV, 24 Valve, ""TURBO"" 3176
 (cont.) L6 629 CID BORE - 124.87mm/4.92""

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1711E-1C	1.711 O.D., 1.416T I.D., 0.3780 Depth, OEM # 7W5554, 133-6997, 138-1997, 179-9453
Valve	Int	01582	1.772 Head Diameter, OEM # 7E-9578
		01582S	1.772 Head Diameter, Stellite Face, OEM # 124-2692
	Exh	01581S	1.654 Head Diameter, Stellite Face, OEM #s 7C-1586, 7E-9577, 133-7029
Keeper	Both	121-1000	2 RD Bead Type, OEM # 2A4429, W/ .3717 Stem Dia.
Stem Seal	Both	122-1177	Umbrella Type, Nylon Material, Oil Shield Style, 6I-2662
Guide	Int	140-7447	0.3745 I.D., 2.625 Length, 0.5640 O.D., Plain I.D. Conversion Guide
	Exh	140-7448	0.3745 I.D., 3.000 Length, 0.5640 O.D., Plain I.D. Conversion Guide
	Both	140-8592	0.3745 I.D., 2.785 Length, 0.6305 O.D., OEM # 7W6878 & 1008150, +2 O/S Available
Spring	Both	160-1462	2.512 Length, Inner, OEM # 224-4441
		160-1463	2.523 Length, Outer, OEM # 214-0586, 332-2152
Rotator	Both	161-1041	OEM # 6I2663, 7E7977, 7C8581; NOTE: Includes Oil Shield
Injector Tubes and Components		240-1004	Copper Material, Injector Tube, OEM # 4P4735, 4P7135, 105-4232
		240-1005	Stainless Steel Material, Injector Tube, OEM # 116-1102

61 636 C.I., (10.5L), 1676, Diesel, OHV, 16 Valve, ""TURBO"" 1676
 V8 636 CID BORE - 114.3mm/4.50""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1505E-1	1.504 O.D., 1 ¹ / ₄ I.D., 0.3350 Depth, OEM # 1S2894
	Exh	SB1442E-2	1.442 O.D., 1 ⁷ / ₃₂ I.D., 1 ¹¹ / ₃₂ Depth, OEM # 1S2895
Valve	Int	01351S	1.430 Head Diameter, Stellite Face, OEM #s 1S8143, 2S8143 & 7S2514
	Exh	01350S	1.370 Head Diameter, Stellite Face, OEM # 1S2903
Keeper	Both	121-1011	1 SQ Bead Type, OEM # 1S2898
Guide	Both	140-6881	0.3140 I.D., 3.031 Length, 0.5660 O.D., W/O Flange, OEM # 5S9291
Spring	Both	160-1198	2.005 Length, 1.559 O.D., OEM # 1W4259
		160-1228	1.900 Length, OEM #s 9N3617, 9N3387.

62 636 C.I., (10.5L), 3208, Diesel, OHV, 16 Valve, ""Naturally Aspirated"" 3208NA
 V8 636 CID BORE - 114.3mm/4.50""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2150E-1	2.150 O.D., 1-55/64 I.D., 0.2920 Depth, +10, +20 O/S Available, OEM # 2N8943
	Exh	SB1912E-1	1.912 O.D., 1 ⁵ / ₈ I.D., 9 ⁹ / ₃₂ Depth, +20 O/S Available, OEM # 9N2837
Valve	Int	01379	2.094 Head Diameter, OEM # 9L7682
	Exh	01378	1.804 Head Diameter, OEM # 9L7683
Keeper	Both	121-1000	2 RD Bead Type, OEM # 2A4429
Guide	Int	140-7447	0.3745 I.D., 2.625 Length, 0.5640 O.D., Plain I.D. Conversion Guide, Optional W/.564 O.D.
		140-7681	0.3735 I.D., 2.579 Length, 0.5020 O.D., Plain I.D. Conversion Guide, Optional For OEM # 4W3778
		140-8357	0.3735 I.D., 2.578 Length, 0.5020 O.D., High Strength Alloy, OEM # 4W3778, 6I2864
	Exh	140-7448	0.3745 I.D., 3.000 Length, 0.5640 O.D., Plain I.D. Conversion Guide, Optional W/.564 O.D.
		140-7682	0.3735 I.D., 2.980 Length, 0.5021 O.D., Plain I.D. Conversion Guide, Optional For OEM # 4W3779
		140-8356	0.3735 I.D., 2.980 Length, 0.5020 O.D., High Strength Alloy, OEM # 4W3779, 6I2865

(Cont'd) **CATERPILLAR / HEAVY DUTY**

636 C.I., (10.5L), 3208, Diesel, OHV, 16 Valve, ""Naturally Aspirated"" 3208NA **62**
V8 636 CID BORE - 114.3mm/4.50"" (cont.)

PART		PART NO.	NOTES
Spring	Both	160-1198	2.005 Length,OEM # 1W-4259, Replaces All Early SINGLE Spring Designs, Some Early Castings May Need The Spring Seat Machined To 1.660 Dia.
		160-1217	2.038 Length,Outer, OEM # 9N5496
		160-1218	1.920 Length,Inner, OEM # 9N5495
		160-1228	1.900 Length,OEM #s 9N3617, 9N3387.
Lifter	Both	170-1013	Mechanical Type,OEM # 9N5786

636 C.I., (10.5L), 3208, Diesel, OHV, 16 Valve, ""TURBO"" 3208TD **63**
V8 636 CID BORE - 114.3mm/4.50""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2150E-1	2.150 O.D.,1-55/64 I.D.,0.2920 Depth,+10, +20 O/S Available,OEM # 2N8943
	Exh	SB1912E-1	1.912 O.D.,1 $\frac{1}{8}$ I.D., $\frac{1}{32}$ Depth,+20 O/S Available,OEM # 9N2837
Valve	Int	01379	2.094 Head Diameter,OEM # 9L7682
	Exh	01497S	1.804 Head Diameter,Stellite Face,OEM # 9N5125 & 119-6772
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Guide	Int	140-7447	0.3745 I.D.,2.625 Length,0.5640 O.D.,Plain I.D. Conversion Guide,Optional W/.564 O.D.
		140-7681	0.3735 I.D.,2.579 Length,0.5020 O.D.,Plain I.D. Conversion Guide,Optional For OEM # 4W3778
		140-8357	0.3735 I.D.,2.578 Length,0.5020 O.D.,High Strength Alloy,OEM # 4W3778, 6I2864
	Exh	140-7448	0.3745 I.D.,3.000 Length,0.5640 O.D.,Plain I.D. Conversion Guide,Optional W/.564 O.D.
		140-7682	0.3735 I.D.,2.980 Length,0.5021 O.D.,Plain I.D. Conversion Guide,Optional For OEM # 4W3779
		140-8356	0.3735 I.D.,2.980 Length,0.5020 O.D.,High Strength Alloy,OEM # 4W3779, 6I2865
Spring	Both	160-1198	2.005 Length,OEM # 1W-4259, Replaces All Early SINGLE Spring Designs, Some Early Castings May Need The Spring Seat Machined To 1.660 Dia.
		160-1217	2.038 Length,Outer, OEM # 9N5496
		160-1218	1.920 Length,Inner, OEM # 9N5495
		160-1228	1.900 Length,OEM #s 9N3617, 9N3387.
Lifter	Both	170-1013	Mechanical Type,OEM # 9N5786

636 C.I., (10.5L), D336, Diesel, OHV, 16 Valve, ""TURBO"" D336 **64**
V8 636 CID BORE - 114.3mm/4.50""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1505E-1	1.504 O.D.,1 $\frac{1}{4}$ I.D.,0.3350 Depth,OEM # 1S2894
	Exh	SB1442E-2	1.442 O.D.,1 $\frac{7}{32}$ I.D., $\frac{11}{32}$ Depth,OEM # 1S2895
Valve	Int	01351S	1.430 Head Diameter,Stellite Face,OEM #s 1S8143, 2S8143 & 7S2514
	Exh	01350S	1.370 Head Diameter,Stellite Face,OEM # 1S2903
Keeper	Both	121-1011	1 SQ Bead Type,OEM # 1S2898
Guide	Both	140-6881	0.3140 I.D.,3.031 Length,0.5660 O.D.,W/O Flange,OEM # 5S9291

638 C.I., (10.5L), D333C, Diesel, OHV, 12 Valve, ""TURBO"" D333C **65**
L6 638 CID BORE - 120.65mm/4.75""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2129E-1	2.129 O.D.,1 $\frac{13}{16}$ T I.D., $\frac{7}{16}$ Depth,OEM Replacement for OEM # 5S7218
		SB2131E-1	2.131 O.D.,1 $\frac{13}{16}$ T I.D., $\frac{7}{16}$ Depth,+10, +20 & +30 O/S Available,To S/N 76R3176

CATERPILLAR / HEAVY DUTY (Cont'd)

65 638 C.I., (10.5L), D333C, Diesel, OHV, 12 Valve, ""TURBO""
(cont.) L6 638 CID

D333C

BORE - 120.65mm/4.75""

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB2004E-2	2.003 O.D., 1 ¹¹ / ₁₆ T I.D., 7 ¹ / ₁₆ Depth, OEM Replacement for OEM # 5S7221 & 1W5321
		SB2006E-2	2.006 O.D., 1 ¹¹ / ₁₆ T I.D., 7 ¹ / ₁₆ Depth, +10, +20 & +30 O/S Available, Exc. Direct Injection & Natural Gas
Valve	Int	01204	2.020 Head Diameter, 5.510 Overall Length, Indirect Injection N/A, OEM # 5S6452.
		01314S	2.020 Head Diameter, Stellite Face, 5.510 Overall Length, Indirect Injection Turbo, OEM # 9N6117, Incl. Spark Ignited Short Valve.
		01631S	2.020 Head Diameter, Stellite Face, 6.437 Overall Length, Spark Ignited, OEM # 7W7490, Long Valve.
		01760S	2.020 Head Diameter, Stellite Face, 5.350 Overall Length, OEM # 100-7860, Small Margin Valve, Direct Injected
	Exh	01203	1.896 Head Diameter, 5.469 Overall Length, Indirect Injection N/A, OEM # 5S6449.
		01205S	1.896 Head Diameter, Stellite Face, 5.469 Overall Length, Indirect Injection Turbo, OEM # 8N0875.
		01491S	1.896 Head Diameter, Stellite Face, 5.469 Overall Length, Spark Ignited, OEM # 2W2877 Short Valve.
		01630S	1.896 Head Diameter, Stellite Face, 6.396 Overall Length, Spark Ignited, OEM # 7W7491, Long Valve.
01761S	1.896 Head Diameter, Stellite Face, 5.300 Overall Length, OEM # 148-7455, Small Margin Valve, Direct Injected		
Keeper	Both	121-1000	2 RD Bead Type, OEM # 2A4429
Guide	Both	140-3037	0.3743 I.D., 2.780 Length, 0.6580 O.D., OEM # 1487425, 1487502, 1621589, +2 O/S Available
		140-7194	0.3750 I.D., 2.781 Length, 0.6578 O.D., All Exc. Spark Ignited & Natural Gas, OEM # 2P1262, +2 & +5 O/S Available
		140-7194SA	0.3750 I.D., 2.781 Length, 0.6578 O.D., ""Special Alloy"", For Ultra Low Sulfur Diesel
		140-8220	0.3750 I.D., 3.700 Length, 0.6578 O.D., High Strength Alloy, Natural Gas, OEM # 7W7489. Long Valve Eng.
		140-8408	0.3750 I.D., 2.775 Length, 0.6580 O.D., High Strength Alloy, Natural Gas, OEM # 7N4310, Short Valve Engine
		140-8486 140-8594	0.3750 I.D., 3.230 Length, 0.6580 O.D., Hardened, Short Valve Eng. 0.3750 I.D., 2.640 Length, 0.6578 O.D., High Strength Alloy, Improved Cooling, OEM # 7E1551, Short Valve Engine
Spring	Both	160-1192	2.050 Length, OEM # 7S7144; This Spring Works With Both Long & Short Valves
Rotator	Both	161-1018	OEM # 8N7782, 103-1800
Lifter	Both	170-1011	Mechanical Type, OEM # 7S3161

66 638 C.I., (10.5L), D334, Diesel, OHV, 12 Valve, ""TURBO""
L6 638 CID

D334

BORE - 114.3mm/4.50""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1505E-1	1.504 O.D., 1 ¹ / ₄ I.D., 0.3350 Depth, OEM # 1S2894
	Exh	SB1442E-2	1.442 O.D., 1 ¹ / ₃₂ I.D., 1 ¹ / ₃₂ Depth, OEM # 1S2895
Valve	Int	01351S	1.430 Head Diameter, Stellite Face, OEM #s 1S8143, 2S8143 & 7S2514
	Exh	01350S	1.370 Head Diameter, Stellite Face, OEM # 1S2903
Keeper	Both	121-1011	1 SQ Bead Type, OEM # 1S2898
Guide	Both	140-6881	0.3140 I.D., 3.031 Length, 0.5660 O.D., W/O Flange, OEM # 5S9291

(Cont'd) **CATERPILLAR / HEAVY DUTY**

638 C.I., (10.5L), 3306, Diesel, OHV, 12 Valve, ""N/A & TURBO""

3306 **67**

L6 638 CID

BORE - 120.65mm/4.75""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2049E-1	2.049 O.D., ¹²⁵ / ₃₂ T I.D., ¹ / ₃₂ Depth,+5, +10 & +20 O/S Available,Direct Injected, OEM # 7N4448, 107-0268, From S/N 76R3177
		SB2129E-1	2.129 O.D., ¹ / ₁₆ T I.D., ⁷ / ₁₆ Depth,OEM Replacement for OEM # 5S7218
		SB2131E-1	2.131 O.D., ¹ / ₁₆ T I.D., ⁷ / ₁₆ Depth,+10, +20 & +30 O/S Available,To S/N 76R3176
	Exh	SB2004E-2	2.003 O.D., ¹ / ₁₆ T I.D., ⁷ / ₁₆ Depth,OEM Replacement for OEM # 5S7221 & 1W5321
		SB2004E-3N	2.004 O.D.,1.685T I.D.,0.3170 Depth,+5, +10, & +20 O/S Available,Direct Injection, OEM # 2W4837, 107-0265
		SB2004E-4N SB2006E-2	2.004 O.D.,1.688 I.D.,0.4380 Depth,Natural Gas, OEM # 7N1649 2.006 O.D., ¹ / ₁₆ T I.D., ⁷ / ₁₆ Depth,+10, +20 & +30 O/S Available,Exc. Direct Injection & Natural Gas
Valve	Int	01204	2.020 Head Diameter,5.510 Overall Length, Indirect Injection N/A, OEM # 5S6452.
		01314S	2.020 Head Diameter,Stellite Face,5.510 Overall Length, Indirect Injection Turbo, OEM # 9N6117, Includes Spark Ignited Short Valve
		01631S	2.020 Head Diameter,Stellite Face,6.437 Overall Length, Spark Ignited, OEM # 7W7490, Long Valve
		01760S	2.020 Head Diameter,Stellite Face,5.350 Overall Length, OEM # 100-7860, Small Margin Valve, Direct Injected
	Exh	01203	1.896 Head Diameter,5.469 Overall Length, Indirect Injection N/A, OEM # 5S6449.
		01205S	1.896 Head Diameter,Stellite Face,5.469 Overall Length, Indirect Injection Turbo, OEM # 8N0875.
		01491S	1.896 Head Diameter,Stellite Face,5.469 Overall Length, Spark Ignited, OEM # 2W2877, Short Valve
		01630S	1.896 Head Diameter,Stellite Face,6.396 Overall Length, Spark Ignited, OEM # 7W7491, Long Valve
		01761S	1.896 Head Diameter,Stellite Face,5.300 Overall Length, OEM # 148-7455, Small Margin Valve, Direct Injected
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1328	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 6N-7174, Use W/ 161-1018 Rotocoil W/ Direct Injection Only
Guide	Both	140-3037	0.3743 I.D.,2.780 Length,0.6580 O.D.,OEM # 1487425, 1487502, 1621589, +2 O/S Available
		140-7194	0.3750 I.D.,2.781 Length,0.6578 O.D.,All Exc. Spark Ignited & Natural Gas, OEM # 2P1262, +2 & +5 O/S Available
		140-7194SA	0.3750 I.D.,2.781 Length,0.6578 O.D.,""Special Alloy"", For Ultra Low Sulfur Diesel
		140-8220	0.3750 I.D.,3.700 Length,0.6578 O.D.,High Strength Alloy,Natural Gas, OEM # 7W7489. Long Valve Eng.
		140-8408	0.3750 I.D.,2.775 Length,0.6580 O.D.,High Strength Alloy,Natural Gas, OEM # 7N4310, Short Valve Engine
		140-8594	0.3750 I.D.,2.640 Length,0.6578 O.D.,High Strength Alloy,Improved Cooling, OEM # 7E1551, Short Valve Engine
Spring	Both	160-1192	2.050 Length,OEM # 7S7144; NOTE: This Spring Works With Both Long & Short Valves; Except Direct Injected Industrial
		160-1606	2.182 Length,OEM # 103-2454; NOTE: Direct Injected Industrial, Use W/ Short Valves 01760S & 01761S
Rotator	Both	161-1018	OEM # 8N7782, 103-1800
Lifter	Both	170-1011	Mechanical Type,OEM # 7S3161
Injector Tubes and Components		240-1000	Brass Material,Water Director, Long,OEM # 5H7071

CATERPILLAR / HEAVY DUTY (Cont'd)

68 638 C.I., (10.5L), G3306, Gas, OHV, 12 Valve, ""Natural Gas""

G3306

L6 638 CID

BORE - 120.65mm/4.75""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2049E-1	2.049 O.D., 1 ²⁵ / ₃₂ T I.D., 1 ¹ / ₂ Depth, +5, +10 & +20 O/S Available, OEM # 7N4448, 107-0268
	Exh	SB2129E-1 SB2004E-4N	2.129 O.D., 1 ¹⁹ / ₁₆ T I.D., 7 ¹ / ₁₆ Depth, OEM # 5S7218 2.004 O.D., 1.688 I.D., 0.4380 Depth, OEM # 7N1649
Valve	Int	01314S	2.020 Head Diameter, Stellite Face, OEM # 9N6117; Short Valve; 5.510 Overall Length
		01631S	2.020 Head Diameter, Stellite Face, OEM # 7W7490; Long Valve, 6.437 Overall Length
	Exh	01491S	1.896 Head Diameter, Stellite Face, OEM # 2W2877; Short Valve, 5.469 Overall Length
		01630S	1.896 Head Diameter, Stellite Face, OEM # 7W7491, Long Valve, 6.396 Overall Length,
Keeper	Both	121-1000	2 RD Bead Type, OEM # 2A4429
Stem Seal	Int	122-1505	Postive Type, Viton Material, Ring & Band Style, OEM # 7W9143
	Both	122-1328	Umbrella Type, Nylon Material, Oil Shield Style, OEM # 6N-7174, Use W/ 161-1018 Rotocoil
Guide	Both	140-8220	0.3750 I.D., 3.700 Length, 0.6578 O.D., High Strength Alloy, OEM # 7W7489, Long Valve Eng.
		140-8408	0.3750 I.D., 2.775 Length, 0.6580 O.D., High Strength Alloy, OEM # 7N4310, Short Valve Engine
		140-8594	0.3750 I.D., 2.640 Length, 0.6578 O.D., High Strength Alloy, OEM # 7E1551, Improved Cooling, Short Valve Engine
Spring	Both	160-1192	2.050 Length, OEM # 7S7144; This Spring Works With Both Long & Short Valves
Rotator	Both	161-1018	OEM # 8N7782, 103-1800
Lifter	Both	170-1011	Mechanical Type, OEM # 7S3161

69 638 C.I., (10.5L), 1673C, Diesel, OHV, 12 Valve

1673C

L6 638 CID

BORE - 120.65mm/4.75""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2129E-1	2.129 O.D., 1 ¹⁹ / ₁₆ T I.D., 7 ¹ / ₁₆ Depth, OEM Replacement for OEM # 5S7218
		SB2131E-1	2.131 O.D., 1 ¹⁹ / ₁₆ T I.D., 7 ¹ / ₁₆ Depth, +10, +20 & +30 O/S Available, To S/N 76R3176
	Exh	SB2004E-2	2.003 O.D., 1 ¹¹ / ₁₆ T I.D., 7 ¹ / ₁₆ Depth, OEM Replacement for OEM # 5S7221 & 1W5321
		SB2006E-2	2.006 O.D., 1 ¹¹ / ₁₆ T I.D., 7 ¹ / ₁₆ Depth, +10, +20 & +30 O/S Available, Exc. Direct Injection & Natural Gas
Valve	Int	01314S	2.020 Head Diameter, Stellite Face, 5.510 Overall Length, Indirect Injection Turbo OEM # 9N6117
	Exh	01205S	1.896 Head Diameter, Stellite Face, 5.469 Overall Length, Indirect Injection Turbo, OEM # 8N0875.
Keeper	Both	121-1000	2 RD Bead Type, OEM # 2A4429
Stem Seal	Both	122-1328	Umbrella Type, Nylon Material, Oil Shield Style, OEM # 6N-7174, Use W/ 161-1018 Rotocoil W/ Direct Injection Only
Guide	Both	140-7194	0.3750 I.D., 2.781 Length, 0.6578 O.D., All Exc. Spark Ignited & Natural Gas, OEM # 2P1262, +2 & +5 O/S Available
		140-7194SA	0.3750 I.D., 2.781 Length, 0.6578 O.D., ""Special Alloy"", For Ultra Low Sulfur Diesel
Spring	Both	160-1192	2.050 Length, OEM # 7S7144; This Spring Works With Both Long & Short Valves
Rotator	Both	161-1018	OEM # 8N7782, 103-1018
Lifter	Both	170-1011	Mechanical Type, OEM # 7S3161

(Cont'd) **CATERPILLAR / HEAVY DUTY**

638 C.I., (10.5L), 1674, Diesel, OHV, 12 Valve

1674 70

L6 638 CID

BORE - 120.65mm/4.75"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1505E-1	1.504 O.D.,1¼ I.D.,0.3350 Depth,OEM # 1S2894
	Exh	SB1442E-2	1.442 O.D.,1½ I.D.,½ Depth,OEM # 1S2895
Valve	Int	01351S	1.430 Head Diameter,Stellite Face,OEM #s 1S8143, 2S8143 & 7S2514
	Exh	01350S	1.370 Head Diameter,Stellite Face,OEM # 1S2903
Keeper	Both	121-1011	1 SQ Bead Type,OEM # 1S2898
Guide	Both	140-6881	0.3140 I.D.,3.031 Length,0.5660 O.D.,W/O Flange,OEM # 5S9291

677 C.I., (11.1L), C11 ACERT, Diesel, OHV, 24 Valve, ""TURBO""

C11A 71

L6 677 CID

BORE - 130mm/5.12"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1792E-1	1.792 O.D.,1.535 I.D.,0.2570 Depth,OEM # 224-2410, 260-4855
	Exh	SB1669E-2N	1.669 O.D.,1.415T I.D.,0.2765 Depth,OEM # 224-1270
Valve	Int	13032	1.756 Head Diameter,OEM # 252-7802
		13151	1.756 Head Diameter,Inconel,OEM # 224-3028
	Exh	13033	1.634 Head Diameter,Inconel,OEM # 248-1467; NOTE: Thin Margin Valve
		13280	1.634 Head Diameter,Inconel,OEM # 224-3030; NOTE: Thick Margin Valve
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1177	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 7E7978
		122-1373	Positive Type,Viton Material,Metal Clad Style,OEM # 163-2478
Guide	Both	140-3058	0.3745 I.D.,3.155 Length,0.6298 O.D.,+2 & +5 O/S Also Available,OEM # 268-2953
Spring	Both	160-1462	2.512 Length,Inner, OEM # 224-4441
		160-1463	2.523 Length,Outer, OEM # 214-0586, 332-2152
Rotator	Both	161-1041	OEM # 7E7977; NOTE: Includes Oil Shield
Injector Tubes and Components		240-1006	Stainless Steel Material,Injector Tube,OEM # 227-4239
		240-1006RB	Viton Material,O-Ring, Small - Bottom, Navy,OEM # 9X7430
		240-1006RM	Aflas Material,O-Ring, Middle, Green,OEM # 166-2904
		240-1006RT	Viton Material,O-Ring, Large - Top, Dark Blue,OEM # 166-2903
		240-1042	Stainless Steel Material,Injector Tube,OEM # 226-0262; NOTE: Does Not Require External O-Rings
240-1044	Stainless Steel Material,Injector Tube,OEM # 263-4920; NOTE: With Two Top Internal Chamfers, This Sleeve Uses 240-1006RM (Green O-Ring) For Top & Middle Groove And 240-1006RB For Bottom Groove		

732 C.I., (12.0L), 3196, Diesel, OHV, 24 Valve, ""TURBO""

3196 72

L6 732 CID

BORE - 130mm/5.12"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812E-8	1.812 O.D.,1.530T I.D.,0.3650 Depth,OEM # 138-1999, 138-2006, 179-9454
	Exh	SB1711E-1C	1.711 O.D.,1.416T I.D.,0.3780 Depth,OEM # 138-1997, 138-2005, 179-9453
Valve	Int	01582	1.772 Head Diameter,OEM # 7E-9578
		01582S	1.772 Head Diameter,Stellite Face,OEM # 1242692, 1929213; NOTE: Includes Marine
	Exh	01581S	1.654 Head Diameter,Stellite Face,OEM # 7C-1586, 7E-9577, 124-2693, 133-7029; NOTE: Includes Marine
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1177	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 7E7978
Guide	Both	140-8592	0.3745 I.D.,2.785 Length,0.6305 O.D.,OEM # 100-8150, +2 O/S Available
Spring	Exh	160-1463	2.523 Length,Outer, OEM # 214-0586, 332-2152

CATERPILLAR / HEAVY DUTY (Cont'd)

72 732 C.I., (12.0L), 3196, Diesel, OHV, 24 Valve, ""TURBO"" 3196
 (cont.) L6 732 CID BORE - 130mm/5.12""

PART		PART NO.	NOTES
Spring	Both	160-1462	2.512 Length,Inner, OEM # 224-4441
Rotator	Both	161-1041	OEM # 6I2663, 7C8581, 7E7977; NOTE: Includes Oil Shield
Injector Tubes and Components		240-1005	Stainless Steel Material,Injector Tube,OEM # 116-1102

73 732 C.I., (12.0L), C12, Diesel, OHV, 24 Valve, ""TURBO"" C12
L6 732 CID BORE - 130mm/5.12""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812E-8	1.812 O.D.,1.530T I.D.,0.3650 Depth,OEM # 138-1999, 138-2006, 179-9454
	Exh	SB1711E-1C	1.711 O.D.,1.416T I.D.,0.3780 Depth,OEM # 138-1997, 138-2005, 179-9453
Valve	Int	01582	1.772 Head Diameter,OEM # 7E-9578
	Exh	01581S	1.654 Head Diameter,Stellite Face,OEM # 7C-1586, 7E-9577, 124-2693, 133-7029
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1177	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 7E7978
Guide	Both	140-8592	0.3745 I.D.,2.785 Length,0.6305 O.D.,OEM # 100-8150, +2 O/S Available
Spring	Both	160-1462	2.512 Length,Inner, OEM # 224-4441
		160-1463	2.523 Length,Outer, OEM # 214-0586, 332-2152
Rotator	Both	161-1041	OEM # 6I2663, 7C8581, 7E7977; NOTE: Includes Oil Shield
Injector Tubes and Components		240-1005	Stainless Steel Material,Injector Tube,OEM # 116-1102

74 763 C.I., (12.5L), C13 ACERT, Diesel, OHV, 24 Valve, ""TURBO"" C13A
L6 763 CID BORE - 130mm/5.12""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1792E-1	1.792 O.D.,1.535 I.D.,0.2570 Depth,OEM # 224-2410, 260-4855
	Exh	SB1669E-2N	1.669 O.D.,1.415T I.D.,0.2765 Depth,OEM # 224-1270
Valve	Int	13032	1.756 Head Diameter,OEM # 252-7802
	Exh	13151	1.756 Head Diameter,Inconel,OEM # 224-3028
		13033	1.634 Head Diameter,Inconel,OEM # 248-1467; NOTE: Thin Margin Valve
		13280	1.634 Head Diameter,Inconel,OEM # 224-3030; NOTE: Thick Margin Valve
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1177	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 7E7978
		122-1373	Positive Type,Viton Material,Metal Clad Style,OEM # 163-2478
Guide	Both	140-3058	0.3745 I.D.,3.155 Length,0.6298 O.D.,+2 & +5 O/S Also Available,OEM # 163-2444, 260-4856, 268-2953, +2 O/S Also Available
Spring	Both	160-1462	2.512 Length,Inner, OEM # 224-4441
		160-1463	2.523 Length,Outer, OEM # 214-0586, 332-2152
Rotator	Both	161-1041	OEM # 7E7977; NOTE: Includes Oil Shield
Injector Tubes and Components		240-1006	Stainless Steel Material,Injector Tube,OEM # 104-5536, 227-4239
		240-1006RB	Viton Material,O-Ring, Small - Bottom, Navy,OEM # 9X7430
		240-1006RM	Aflas Material,O-Ring, Middle, Green,OEM # 166-2904
		240-1006RT	Viton Material,O-Ring, Large - Top, Dark Blue,OEM # 166-2903
		240-1042	Stainless Steel Material,Injector Tube,OEM # 226-0262; NOTE: Does Not Require External O-Rings

(Cont'd) **CATERPILLAR / HEAVY DUTY**

763 C.I., (12.5L), C13 ACERT, Diesel, OHV, 24 Valve, ""TURBO"" **C13A 74**
L6 763 CID BORE - 130mm/5.12"" (cont.)

PART	PART NO.	NOTES
Injector Tubes and Components	240-1044	Stainless Steel Material,Injector Tube,OEM # 263-4920; NOTE: With Two Top Internal Chamfers, This Sleeve Uses 240-1006RM (Green O-Ring) For Top & Middle Groove And 240-1006RB For Bottom Groove

831 C.I., (13.6L), D339, Diesel, OHV, 8 Valve **D339 75**
L4 831 CID BORE - 146.05mm/5.75""

PART	PART NO.	NOTES
Valve Seat Insert	Int SB2503E-2 SB2506E-2	2.503 O.D.,.21/16T I.D.,1/2 Depth,OEM Replacement for OEM # 9M8745 2.506 O.D.,.21/16T I.D.,1/2 Depth,+20 O/S Available,+003 Oversize Of OEM # 9M8745
	Exh SB2503E-1 SB2506E-1	2.503 O.D.,2.000 I.D.,1/2 Depth,OEM Replacement for OEM # 8M9810 2.506 O.D.,2.000 I.D.,1/2 Depth,+20 O/S Available,+003 Oversize Of OEM # 8M9810
Valve	Int 00852S 01459S	2.343 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8H1993 2.343 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., OEM # 1W1818
	Exh 00574S 01458S	2.282 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8H1994 2.282 Head Diameter,Stellite Face, 2 Groove,W/.3717 Stem Dia., OEM # 1W1819
Keeper	Both 121-1000 121-1030	2 RD Bead Type,OEM # 2A4429, W/ .3717 Stem Dia. No Bead Bead Type,OEM # 3B1143, .4955 Stem Dia., 3 Required per Valve
Guide	Int 140-6470	0.5005 I.D.,5.250 Length,0.9383 O.D.,Flanged,W/O Valve Rotator W/ .4955 Valve Stem Dia., OEM # 2S0893
	Exh 140-6469	0.5020 I.D.,5.250 Length,0.9383 O.D.,Flanged,W/O Valve Rotator W/ .4955 Valve Stem Dia., OEM # 1S6654
	Both 140-7338 140-7604 149-1000	0.5010 I.D.,5.219 Length,0.9385 O.D.,High Strength Alloy,Non-Flanged, Counterbored W/ .4955 Valve Stem Dia., OEM # 7N2051, +2 O/S Available 0.3725 I.D.,5.250 Length,0.9390 O.D.,High Strength Alloy,Non-Flanged, W/ .3725 Valve Stem Dia., OEM # 1W1816 0.7850 I.D.,0.500 Length,1.2650 O.D.,Spacer For Non-Flanged Guides. OEM # 3N1414
Spring	Both 160-1196 160-1197	2.179 Length,Inner, Dual Spring, OEM # 9M5349 2.574 Length,Outer, Dual Spring, OEM # 9M5350
Rotator	Exh 161-1035	OEM # 7N7639

893 C.I., (14.6L), D343, Diesel, OHV, 24 Valve **D343 76**
L6 893 CID BORE - 137.16mm/5.40""

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1812E-1 SB1818E-1 SB1818E-2	1.812 O.D.,19/16T I.D.,0.3650 Depth,OEM Replacement for OEM # 9M3205 1.818 O.D.,19/16T I.D.,0.3650 Depth 1.818 O.D.,19/16T I.D.,3/8 Depth,+20 O/S Available,W/ .010 Larger Depth
	Exh SB1687E-1N SB1693E-1N SB1693E-2	1.687 O.D.,17/16T I.D.,0.3650 Depth,OEM Replacement For OEM # 9S9699 & 1W5283 1.693 O.D.,17/16T I.D.,0.3650 Depth,+10, +20, +30 O/S Available,Exc. Natural Gas 1.693 O.D.,17/16T I.D.,3/8 Depth,+20 & +30 O/S Available,W/ .010 Larger Depth
Valve	Int 01146S Exh 01145S	1.771 Head Diameter,Stellite Face,Spark Ignited, OEM # 1N4885, 1N4886 1.646 Head Diameter,Stellite Face,OEM # 7E7830
Keeper	Both 121-1000	2 RD Bead Type,OEM # 2A4429

CATERPILLAR / HEAVY DUTY (Cont'd)

76 893 C.I., (14.6L), D343, Diesel, OHV, 24 Valve D343
 (cont.) L6 893 CID BORE - 137.16mm/5.40"

PART	PART NO.	NOTES
Guide	Both 140-7255	0.3750 I.D.,2.815 Length,0.6892 O.D.,High Strength Alloy, OEM # 6N2236, +2 O/S Available
Spring	Both 160-1178	2.310 Length,OEM # 2S4213

77 893 C.I., (14.6L), 1693, Diesel, OHV, 24 Valve, ""TURBO"" 1693
 L6 893 CID BORE - 137.16mm/5.40"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1812E-1 SB1818E-1 SB1818E-2 Exh SB1687E-1N SB1693E-1N SB1693E-2	1.812 O.D.,1 $\frac{1}{16}$ T I.D.,0.3650 Depth,OEM Replacement for OEM # 9M3205 1.818 O.D.,1 $\frac{1}{16}$ T I.D.,0.3650 Depth 1.818 O.D.,1 $\frac{1}{16}$ T I.D., $\frac{3}{8}$ Depth,+20 O/S Available,W/ .010 Larger Depth 1.687 O.D.,1 $\frac{1}{16}$ T I.D.,0.3650 Depth,OEM Replacement For OEM # 9S9699 & 1W5283 1.693 O.D.,1 $\frac{1}{16}$ T I.D.,0.3650 Depth,+10, +20, +30 O/S Available 1.693 O.D.,1 $\frac{1}{16}$ T I.D., $\frac{3}{8}$ Depth,+20 & +30 O/S Available,W/ .010 Larger Depth
Valve	Int 01146S Exh 01145S	1.771 Head Diameter,Stellite Face,OEM # 1N4885, 1N4886 1.646 Head Diameter,Stellite Face,OEM # 7E7830
Keeper	Both 121-1000	2 RD Bead Type,OEM # 2A4429
Guide	Both 140-7255	0.3750 I.D.,2.815 Length,0.6892 O.D.,High Strength Alloy, OEM # 6N2236, +2 O/S Available
Spring	Both 160-1178	2.310 Length,OEM # 2S4213
Rotator	Exh 161-1029	OEM # 4N6761

78 893 C.I., (14.6L), 3406, Diesel, OHV, 24 Valve, ""TURBO"" 3406
 L6 893 CID BORE - 137.16mm/5.40"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1812E-3 SB1812E-6N SB1812E-7 SB1813E-1 SB1817E-3 Exh SB1687E-1N SB1687E-4N SB1687E-5C SB1693E-1N	1.812 O.D.,1.540T I.D.,0.3650 Depth,Diesel, OEM Replacement for OEM # 4N5893, Oversize Use SB1817E-3 1.812 O.D.,1.540 I.D.,0.3650 Depth,+10, & +20 O/S Available,Natural Gas, OEM # 6I4019 & 122-7352; NOTE: Use W/ 20 degree Valve (01857S) 1.812 O.D.,1.535 I.D.,0.3650 Depth,Diesel, Late Style W/ Swirl Plate, OEM # 115-2358 1.813 O.D.,1.540 I.D.,0.3150 Depth,+10 & +20 O/S Available,Natural Gas, OEM # 214-3286; NOTE: Use W/ 20 Degree Valve (02259S) 1.817 O.D.,1.540T I.D.,0.3650 Depth,+10, +20, +30 & +40 O/S Available,+5 Oversize of SB1812E-3 1.687 O.D.,1 $\frac{1}{16}$ T I.D.,0.3650 Depth,Diesel, OEM Replacement For OEM # 9S9699 & 1W5283 1.687 O.D.,1.410 I.D.,0.3650 Depth,+10 & +20 O/S Available,Natural Gas, OEM # 6I-4014; NOTE: Use W/ 20 degree Valve (01632S) 1.687 O.D.,1.318T I.D.,0.3150 Depth,+10 & +20 O/S Available,Natural Gas, OEM # 212-0936; NOTE: Use W/ 20 Degree Valve (02258S) 1.693 O.D.,1 $\frac{1}{16}$ T I.D.,0.3650 Depth,+10, +20, +30 O/S Available,Diesel, OEM # 1W5283
Valve	Int 01462S 01857S 02259S Exh 01468S 01632S 02258S	1.771 Head Diameter,Stellite Face,Diesel, OEM # 4W5374 1.771 Head Diameter,Stellite Face,Short Valve, Natural Gas. OEM # 122-7353, Late Style. Replaces Part # 9Y-9804 (01633S) 1.771 Head Diameter,Inconel, Stellite Face,Long Valve, Natural Gas, OEM # 212-0932; NOTE: 20 Degree W/7.621 Overall Length 1.646 Head Diameter,Stellite Face,Diesel, OEM # 7N4580 1.646 Head Diameter,Stellite Face,Short Valve, Natural Gas, OEM # 101-8314 1.646 Head Diameter,Inconel, Stellite Face,Long Valve, Natural Gas, OEM # 212-0933; NOTE: 20 Degree W/7.621 Overall Length

(Cont'd) **CATERPILLAR / HEAVY DUTY**

893 C.I., (14.6L), 3406, Diesel, OHV, 24 Valve, ""TURBO""

3406 **78**

L6 893 CID

BORE - 137.16mm/5.40"" (cont.)

PART		PART NO.	NOTES
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1328	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 6N-7174, W/ Single Spring
		122-1393	Positive Type,Viton Material,Top Hat Style,OEM # 214-6051 & 250-3044
Guide	Int	140-3051	0.3740 I.D.,3.730 Length,0.6890 O.D.,Natural Gas; OEM # 213-7536, Confirm S/N, Use W/ Long Valves
	Exh	140-3052	0.3740 I.D.,4.130 Length,0.6890 O.D.,Natural Gas; OEM # 213-7537, Confirm S/N, Use W/ Long Valve
	Both	140-3138	0.3740 I.D.,3.255 Length,0.6890 O.D.,Late Style For Natural Gas; Phosphate Coated, W/ Oil Baffle; OEM # 151-1330; NOTE: Confirm S/N, Use W/ Short Valve
		140-3145	0.3740 I.D.,3.250 Length,0.6890 O.D.,+2 & +5 O/S Available,Diesel; OEM # 173-7188; NOTE: Late Style
		140-7216	0.3750 I.D.,3.250 Length,0.6890 O.D.,+2 & +5 O/S Available,Diesel; OEM # 4N2803; NOTE: Early Style
		140-7216SA	0.3750 I.D.,3.250 Length,0.6890 O.D.,+2 O/S Available, ""Special Alloy"", For Ultra Low Sulfur Diesel
		140-7736	0.3740 I.D.,3.250 Length,0.6890 O.D.,Diesel; NOTE: Optional -0.001 Undersized I.D. Of 140-7216
		140-7736SA	0.3740 I.D.,3.250 Length,0.6890 O.D., ""Special Alloy"", For Ultra Low Sulfur Diesel; NOTE: Optional -0.001 Undersized I.D. Of 140-7216SA
		140-8319	0.3741 I.D.,3.250 Length,0.6891 O.D.,Diesel; Non-Heat Treated W/ Counterbored I.D., OEM # 7W1636
140-8485	0.3750 I.D.,3.250 Length,0.6888 O.D.,Counterbored Both Ends,Early Style For Natural Gas; Heat Treated High Strength Alloy; OEM # 7E3413, 123-3984, 151-1329; NOTE: Confirm S/N, Use W/ Short Valve		
Spring	Both	160-1184	2.470 Length,Single Spring, OEM # 4N5906
		160-1207	2.678 Length,Inner, Dual Spring, OEM # 4W2472
		160-1213	2.341 Length,Outer, Dual Spring, OEM # 4W2471
Rotator	Exh	161-1030	W/ Dual Spring, OEM # 4W2474
	Both	161-1038	W/ Single Spring, OEM # 6N7175; NOTE: Includes Oil Shield
Lifter	Both	170-1014	Hydraulic Roller Type,OEM #s 1017788, 4N6233, 4W2475, 4W7108, 6N4589, 9Y4011

893 C.I., (14.6L), 3406B, Diesel, OHV, 24 Valve, ""TURBO""

3406B **79**

L6 893 CID

BORE - 137.16mm/5.40""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812E-3	1.812 O.D.,1.540T I.D.,0.3650 Depth,OEM Replacement for OEM # 4N5893, Oversize Use SB1817E-3.
		SB1812E-6N	1.812 O.D.,1.540 I.D.,0.3650 Depth,+10, & +20 O/S Available,Natural Gas, Use W/ 20 degree Valve (01857S), OEM # 6I4019 & 122-7352
		SB1812E-7	1.812 O.D.,1.535 I.D.,0.3650 Depth,Late Style W/ Swirl Plate, OEM # 115-2358
		SB1817E-3	1.817 O.D.,1.540T I.D.,0.3650 Depth,+10, +20, +30 & +40 O/S Available,+5 Oversize of SB1812E-3
	Exh	SB1687E-1N	1.687 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,OEM Replacement For OEM # 9S9699 & 1W5283
		SB1687E-4N	1.687 O.D.,1.410 I.D.,0.3650 Depth,+10 & +20 O/S Available,Natural Gas, Use W/ 20 degree Valve (01632S), OEM # 6I-4014
		SB1693E-1N	1.693 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,+10, +20, +30 O/S Available,Exc. Natural Gas
Valve	Int	01462S	1.771 Head Diameter,Stellite Face,Diesel, OEM # 4W5374
		01857S	1.771 Head Diameter,Stellite Face,Short Valve, Natural Gas. OEM # 122-7353, Late Style. Replaces Part # 9Y-9804 (01633S)
	Exh	01468S	1.646 Head Diameter,Stellite Face,Diesel, OEM # 7N4580

CATERPILLAR / HEAVY DUTY (Cont'd)

79 893 C.I., (14.6L), 3406B, Diesel, OHV, 24 Valve, ""TURBO"" **3406B**
 (cont.) L6 893 CID **BORE - 137.16mm/5.40""**

PART		PART NO.	NOTES
Valve	Exh	01632S	1.646 Head Diameter,Stellite Face,Short Valve, Natural Gas, OEM # 101-8314
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1328	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 6N-7174, W/ Single Spring
		122-1373	Positive Type,Viton Material,Metal Clad Style,OEM # 102-6229, 163-2478, NOTE: Use W/ 140-3014 Valve Guide
Guide	Both	140-3014	0.3740 I.D.,3.050 Length,0.6890 O.D.,OEM # 122-7374; NOTE: Optional Guide To Be Used W/ Dual Springs & (122-1373) Positive Style Seal
		140-3138	0.3740 I.D.,3.255 Length,0.6890 O.D.,Late Style For Natural Gas; Phosphate Coated, W/ Oil Baffle; OEM # 151-1330; NOTE: Use W/ Short Valve
		140-3145	0.3740 I.D.,3.250 Length,0.6890 O.D.,+2 & +5 O/S Available,Diesel; OEM # 173-7188; NOTE: Late Style; +2 & +5 O/S Available
		140-7216	0.3750 I.D.,3.250 Length,0.6890 O.D.,+2 & +5 O/S Available,Diesel; OEM # 4N2803; NOTE: Early Style
		140-7216SA	0.3750 I.D.,3.250 Length,0.6890 O.D.,+2 O/S Available, ""Special Alloy"", For Ultra Low Sulfur Diesel
		140-7736	0.3740 I.D.,3.250 Length,0.6890 O.D.,Diesel; NOTE: Optional -0.001 Undersized I.D. Of 140-7216
		140-7736SA	0.3740 I.D.,3.250 Length,0.6890 O.D., ""Special Alloy"", For Ultra Low Sulfur Diesel; NOTE: Optional -0.001 Undersized I.D. Of 140-7216SA
		140-8319	0.3741 I.D.,3.250 Length,0.6891 O.D.,Diesel, Non-Heat Treated W/ Counterbored I.D., OEM # 7W1636
140-8485	0.3750 I.D.,3.250 Length,0.6888 O.D.,Counterbored Both Ends,Early Style High Strength Alloy, Heat Treated For Natural Gas, OEM # 151-1329; NOTE: Use W/ Short Valve		
Spring	Both	160-1184	2.470 Length,Single Spring, OEM # 4N5906
		160-1207	2.678 Length,Inner, Dual Spring, OEM # 4W2472
		160-1213	2.341 Length,Outer, Dual Spring, OEM # 4W2471
Rotator	Both	161-1030	W/ Dual Spring, OEM # 4W2474
		161-1038	W/ Single Spring, OEM # 6N7175; NOTE: Includes Oil Shield
Lifter	Both	170-1014	Hydraulic Roller Type,OEM #s 1017788, 4N6233, 4W2475, 4W7108, 6N4589, 9Y4011

80 893 C.I., (14.6L), 3406C, Diesel, OHV, 24 Valve, ""TURBO"" **3406C**
 L6 893 CID **BORE - 137.16mm/5.40""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812E-3	1.812 O.D.,1.540T I.D.,0.3650 Depth,OEM Replacement for OEM # 4N5893, Oversize Use SB1817E-3
		SB1817E-3	1.817 O.D.,1.540T I.D.,0.3650 Depth,+10, +20, +30 & +40 O/S Available,+5 Oversize of SB1812E-3
	Exh	SB1687E-1N	1.687 O.D.,1 ¹ / ₁₆ T I.D.,0.3650 Depth,OEM # 1W5283
		SB1693E-1N	1.693 O.D.,1 ¹ / ₁₆ T I.D.,0.3650 Depth,+10, +20, +30 O/S Available
Valve	Int	01462S	1.771 Head Diameter,Stellite Face,OEM # 4W5374, Short Valve
		01830S	1.771 Head Diameter,Stellite Face,OEM # 122-0322, Long Valve
	Exh	01468S	1.646 Head Diameter,Stellite Face,OEM # 7N4580, Short Valve
		01831S	1.646 Head Diameter,Stellite Face,OEM # 122-0321, Long Valve
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1328	Umbrella Type,Nylon Material,Oil Shield Style,W/ Single Spring, OEM # 6N-7174
		122-1373	Positive Type,Viton Material,Metal Clad Style,OEM # 102-6229, 163-2478
Guide	Both	140-3014	0.3740 I.D.,3.050 Length,0.6890 O.D.,OEM # 122-7374

(Cont'd) **CATERPILLAR / HEAVY DUTY**

893 C.I., (14.6L), 3406C, Diesel, OHV, 24 Valve, ""TURBO"" **3406C 80**
BORE - 137.16mm/5.40"" (cont.)
L6 893 CID

PART		PART NO.	NOTES
Guide	Both	140-3145	0.3740 I.D.,3.250 Length,0.6890 O.D.,+2 & +5 O/S Available,OEM # 173-7188
Spring	Both	160-1184 160-1207 160-1213	2.470 Length,Single Spring, OEM # 4N5906 2.678 Length,Inner, Dual Spring, OEM # 4W2472 2.341 Length,Outer, Dual Spring, OEM # 4W2471
Rotator	Both	161-1030 161-1038	W/ Dual Spring, OEM # 4W2474 W/ Single Spring, OEM # 6N7175; NOTE: Includes Oil Shield

893 C.I., (14.6L), 3406E, Diesel, SOHC, 24 Valve, ""TURBO"" **3406E 81**
BORE - 137.16mm/5.40""
L6 893 CID

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1891E-1	1.891 O.D.,1.615T I.D.,0.3060 Depth,+10, +20 & +30 O/S Available,OEM # 1564168, 1753617, 1085912
	Exh	SB1687E-1N	1.687 O.D.,17/16T I.D.,0.3650 Depth,OEM Replacement For OEM # 9S9699 & 1W5283
		SB1693E-1N	1.693 O.D.,17/16T I.D.,0.3650 Depth,+10, +20, +30 O/S Available
Valve	Int	01911	1.850 Head Diameter,Recommended OEM Nickel Base Inconel Material, 2 Groove,OEM # 153-7023, 236-5605, Replaces Earlier Single Groove OEM # 108-5910
		21911	1.850 Head Diameter,Alternative Austenitic Material, Stellite Face, 2 Groove,NOTE: Can Be Used To Service OEM # 490-7198
	Exh	01912	1.646 Head Diameter,Recommended OEM Nickel Base Inconel Material, 2 Groove,OEM # 153-7024, 289-9231, Replaces Earlier Single Groove OEM # 108-5911
		21912	1.646 Head Diameter,Alternative Austenitic Material, Stellite Face, 2 Groove,NOTE: Can Be Used To Service OEM # 391-1107, 464-468, 490-7200
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1373	Positive Type,Viton Material,Metal Clad Style,OEM # 102-6229, 163-2478
Guide	Both	140-3007	0.3745 I.D.,3.358 Length,0.6298 O.D.,+2 & +5 O/S Available,OEM # 122-7375
Spring	Both	160-1464	2.823 Length,Inner, OEM # 211-3122
		160-1575	3.185 Length,Outer, OEM # 211-3123, 247-9908
Rotator	Both	161-1047	OEM # 186-2001, For Dual Springs, Replaces Early Single Spring Rotator OEM # 4P-4962 When Used W/ Dual Springs
Rocker Components		187-1087	Valve Bridge Guide,OEM # 363-3731; NOTE: Improved Design, Also Services OEM # 6I-1458 & 348-7743
Injector Tubes and Components		240-1006	Stainless Steel Material,Injector Tube,OEM # 227-4239
		240-1006RB	Viton Material,O-Ring, Small - Bottom, Navy,OEM # 9X7430
		240-1006RM	Aflas Material,O-Ring, Middle, Green,OEM # 166-2904
		240-1006RT	Viton Material,O-Ring, Large - Top, Dark Blue,OEM # 166-2903
		240-1044	Stainless Steel Material,Injector Tube,OEM # 263-4920; NOTE: With Two Top Internal Chamfers, This Sleeve Uses 240-1006RM (Green O-Ring) For Top & Middle Groove And 240-1006RB For Bottom Groove

893 C.I., (14.6L), G3406, Gas, OHV, 24 Valve, ""Natural Gas"" **G3406 82**
BORE - 137.16mm/5.40""
L6 893 CID

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812E-3	1.812 O.D.,1.540T I.D.,0.3650 Depth,OEM Replacement for OEM # 4N5893, , 30 Degree; NOTE: Oversize Use SB1817E-3
		SB1812E-6N	1.812 O.D.,1.540 I.D.,0.3650 Depth,+10, & +20 O/S Available,OEM # 122-7352, 20 Degree Use W/ 01857S

CATERPILLAR / HEAVY DUTY (Cont'd)

82 893 C.I., (14.6L), G3406, Gas, OHV, 24 Valve, ""Natural Gas""
(cont.) L6 893 CID

G3406

BORE - 137.16mm/5.40""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1813E-1	1.813 O.D., 1.540 I.D., 0.3150 Depth, +10 & +20 O/S Available, OEM # 214-3286, 20 Degree Use W/ 02259S
		SB1817E-3	1.817 O.D., 1.540T I.D., 0.3650 Depth, +10, +20, +30 & +40 O/S Available, +5 Oversize of SB1812E-3
	Exh	SB1687E-4N	1.687 O.D., 1.410 I.D., 0.3650 Depth, +10 & +20 O/S Available, OEM # 198-6529, 20 Degree Use W/ 01632S
		SB1687E-5C	1.687 O.D., 1.318T I.D., 0.3150 Depth, +10 & +20 O/S Available, OEM # 212-0936, 20 Degree Use W/ 02258S
Valve	Int	01462S	1.771 Head Diameter, Stellite Face, OEM # 115-2368, 30 Degree
		01857S	1.771 Head Diameter, Stellite Face, OEM # 122-7353, 20 Degree Short Valve
		02259S	1.771 Head Diameter, Inconel, Stellite Face, OEM # 212-0932, 20 Degree Long Valve
	Exh	13430S	1.771 Head Diameter, Inconel, Stellite Face, OEM # 358-1229; NOTE: Late 20 Degree Long Valve W/ 7.766 Overall Length
		01632S	1.646 Head Diameter, Stellite Face, OEM # 101-8314, 20 Degree Short Valve
		02258S	1.646 Head Diameter, Inconel, Stellite Face, OEM # 212-0933, 20 Degree Long Valve
		13431S	1.646 Head Diameter, Inconel, Stellite Face, OEM # 358-1230; NOTE: Late 20 Degree Long Valve W/ 7.766 Overall Length
Keeper	Both	121-1000	2 RD Bead Type, OEM # 2A4429
Stem Seal	Int	122-1393	Positive Type, Viton Material, Top Hat Style, OEM # 214-6051 & 250-3044
	Both	122-1328	Umbrella Type, Nylon Material, Oil Shield Style, OEM # 6N7174
Guide	Int	140-3051	0.3740 I.D., 3.730 Length, 0.6890 O.D., OEM # 213-7536, NOTE: Use W/ Long Valves
	Exh	140-3052	0.3740 I.D., 4.130 Length, 0.6890 O.D., OEM # 213-7537, NOTE: Use W/ Long Valves
	Both	140-3138	0.3740 I.D., 3.255 Length, 0.6890 O.D., OEM # 151-1330; Late Style Phosphate Coated, W/ Oil Baffle; NOTE: Use W/ Short Valve
		140-3174	0.3740 I.D., 3.075 Length, 0.6890 O.D., OEM # 151-6235; NOTE: Use W/ Short Valves
		140-8485	0.3750 I.D., 3.250 Length, 0.6888 O.D., Counterbored Both Ends, OEM #'s 7E3413, 123-3984, 151-1329; Early Style Heat Treated High Strength Alloy; Use W/ Short Valves
Spring	Both	160-1184	2.470 Length, OEM # 4N5906
Rotator	Both	161-1038	OEM # 6N7175; NOTE: Includes Oil Shield

83 928 C.I., (15.2L), C15, Diesel, SOHC, 24 Valve, ""TURBO""

C15

L6 928 CID

BORE - 137mm/5.40""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1891E-1	1.891 O.D., 1.615T I.D., 0.3060 Depth, +10, +20 & +30 O/S Available, OEM # 1564168, 1753617, 1085912
		SB1891E-2	1.891 O.D., 1.615T I.D., 0.3060 Depth, OEM # 224-3983, 280-3979
	Exh	SB1687E-1N	1.687 O.D., 1.7/16T I.D., 0.3650 Depth, OEM # 152-7582
		SB1687E-6C	1.687 O.D., 1.437T I.D., 0.3650 Depth, OEM # 226-5561, 300-3565
		SB1693E-1N	1.693 O.D., 1.7/16T I.D., 0.3650 Depth, +10, +20, +30 O/S Available
Valve	Int	01911	1.850 Head Diameter, Recommended OEM Nickel Base Inconel Material, 2 Groove, OEM # 153-7023, 236-5605
		21911	1.850 Head Diameter, Alternative Austenitic Material, Stellite Face, 2 Groove, NOTE: Can Be Used To Service OEM # 490-7198
	Exh	01912	1.646 Head Diameter, Recommended OEM Nickel Base Inconel Material, 2 Groove, OEM # 153-7024, 289-9231

(Cont'd) **CATERPILLAR / HEAVY DUTY**

928 C.I., (15.2L), C15, Diesel, SOHC, 24 Valve, ""TURBO""
L6 928 CID

C15 83
BORE - 137mm/5.40"" (cont.)

PART		PART NO.	NOTES
Valve	Exh	21912	1.646 Head Diameter,Alternative Austenitic Material, Stellite Face, 2 Groove,NOTE: Can Be Used To Service OEM # 391-1107, 464-468, 490-7200
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1373	Positive Type,Viton Material,Metal Clad Style,OEM # 102-6229, 163-2478
Guide	Both	140-3007	0.3745 I.D.,3.358 Length,0.6298 O.D.,+2 & +5 O/S Available,OEM # 122-7375
Spring	Both	160-1464 160-1575	2.823 Length,Inner, OEM # 211-3122 3.185 Length,Outer, OEM # 211-3123, 247-9908
Rotator	Both	161-1047	OEM # 186-2001, For Dual Springs, Replaces Early Single Spring Rotator OEM # 4P-4962 When Used W/ Dual Springs
Rocker Components		187-1087	Valve Bridge Guide,OEM # 363-3731; NOTE: Improved Design, Also Services OEM # 6I-1458 & 348-7743
Injector Tubes and Components		240-1006 240-1006RB 240-1006RM 240-1006RT 240-1044	Stainless Steel Material,Injector Tube,OEM # 227-4239 Viton Material,O-Ring, Small - Bottom, Navy,OEM # 9X7430 Aflas Material,O-Ring, Middle, Green,OEM # 166-2904 Viton Material,O-Ring, Large - Top, Dark Blue,OEM # 166-2903 Stainless Steel Material,Injector Tube,OEM # 263-4920; NOTE: With Two Top Internal Chamfers, This Sleeve Uses 240-1006RM (Green O-Ring) For Top & Middle Groove And 240-1006RB For Bottom Groove

964 C.I., (15.8L), C16, Diesel, SOHC, 24 Valve, ""TURBO""
L6 964 CID

C16 84
BORE - 140mm/5.512""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1891E-1	1.891 O.D.,1.615T I.D.,0.3060 Depth,+10, +20 & +30 O/S Available,OEM # 1564168, 1753617, 1085912
	Exh	SB1687E-1N	1.687 O.D.,17/16T I.D.,0.3650 Depth,OEM Replacement For OEM # 9S9699 & 1W5283
		SB1693E-1N	1.693 O.D.,17/16T I.D.,0.3650 Depth,+10, +20, +30 O/S Available
Valve	Int	01911	1.850 Head Diameter,Recommended OEM Nickel Base Inconel Material, 2 Groove,OEM # 153-7023, 236-5605
		21911	1.850 Head Diameter,Alternative Austenitic Material, Stellite Face, 2 Groove,NOTE: Can Be Used To Service OEM # 490-7198
	Exh	01912	1.646 Head Diameter,Recommended OEM Nickel Base Inconel Material, 2 Groove,OEM # 153-7024, 289-9231
		21912	1.646 Head Diameter,Alternative Austenitic Material, Stellite Face, 2 Groove,NOTE: Can Be Used To Service OEM # 391-1107, 464-468, 490-7200
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1373	Positive Type,Viton Material,Metal Clad Style,OEM # 102-6229, 163-2478
Guide	Both	140-3007	0.3745 I.D.,3.358 Length,0.6298 O.D.,+2 & +5 O/S Available,OEM # 122-7375
Spring	Both	160-1464 160-1575	2.823 Length,Inner, OEM # 211-3122 3.185 Length,Outer, OEM # 211-3123, 247-9908
Rotator	Both	161-1047	OEM # 186-2001, For Dual Springs, Replaces Early Single Spring Rotator OEM # 4P-4962 When Used W/ Dual Springs
Rocker Components		187-1087	Valve Bridge Guide,OEM # 363-3731; NOTE: Improved Design, Also Services OEM # 6I-1458 & 348-7743
Injector Tubes and Components		240-1006 240-1006RB	Stainless Steel Material,Injector Tube,OEM # 227-4239 Viton Material,O-Ring, Small - Bottom, Navy,OEM # 9X7430

CATERPILLAR / HEAVY DUTY (Cont'd)

84 964 C.I., (15.8L), C16, Diesel, SOHC, 24 Valve, ""TURBO"" C16
 (cont.) L6 964 CID BORE - 140mm/5.512""

PART	PART NO.	NOTES
Injector Tubes and Components	240-1006RM	Aflas Material,O-Ring, Middle, Green,OEM # 166-2904
	240-1006RT	Viton Material,O-Ring, Large - Top, Dark Blue,OEM # 166-2903
	240-1044	Stainless Steel Material,Injector Tube,OEM # 263-4920; NOTE: With Two Top Internal Chamfers, This Sleeve Uses 240-1006RM (Green O-Ring) For Top & Middle Groove And 240-1006RB For Bottom Groove

85 964 C.I., (15.8L), 3456, Diesel, OHV, 24 Valve, ""TURBO"" 3456
 L6 964 CID BORE - 140mm/5.512""

PART	PART NO.	NOTES	
Valve Seat Insert	Int SB1891E-2	1.891 O.D.,1.615T I.D.,0.3060 Depth,OEM # 224-3983, 280-3979	
	Exh SB1687E-6C	1.687 O.D.,1.437T I.D.,0.3650 Depth,OEM # 226-5561	
Valve	Int	01911	1.850 Head Diameter,Recommended OEM Nickel Base Inconel Material, 2 Groove,OEM # 153-7023, 236-5605
		21911	1.850 Head Diameter,Alternative Austenitic Material, Stellite Face, 2 Groove,NOTE: Can Be Used To Service OEM # 490-7198
	Exh	01912	1.646 Head Diameter,Recommended OEM Nickel Base Inconel Material, 2 Groove,OEM # 153-7024, 289-9231
		21912	1.646 Head Diameter,Alternative Austenitic Material, Stellite Face, 2 Groove,NOTE: Can Be Used To Service OEM # 391-1107, 464-468, 490-7200
Keeper	Both 121-1000	2 RD Bead Type,OEM # 2A-4429	
Stem Seal	Both 122-1373	Positive Type,Viton Material,Metal Clad Style,OEM # 163-2478	
Guide	Both 140-3007	0.3745 I.D.,3.358 Length,0.6298 O.D.,+2 & +5 O/S Available,OEM # 122-7375	
Spring	Both 160-1464	2.823 Length,Inner, OEM # 211-3122	
	160-1575	3.185 Length,Outer, OEM # 247-9908	
Rotator	Both 161-1047	OEM # 186-2001	
Rocker Components	187-1087	Valve Bridge Guide,OEM # 363-3731; NOTE: Improved Design, Also Services OEM # 6I-1458 & 348-7743	
Injector Tubes and Components	240-1006	Stainless Steel Material,Injector Tube,OEM # 227-4239	
	240-1006RB	Viton Material,O-Ring, Small - Bottom, Navy,9X-7430	
	240-1006RM	Aflas Material,O-Ring, Middle, Green,OEM # 166-2904	
	240-1006RT	Viton Material,O-Ring, Large - Top, Dark Blue,OEM # 166-2903	

86 1099 C.I., (18.0L), 3408, Diesel, OHV, 32 Valve, ""TURBO"" 3408
 V8 1099 CID BORE - 137.16mm/5.40""

PART	PART NO.	NOTES	
Valve Seat Insert	Int	SB1812E-3	1.812 O.D.,1.540T I.D.,0.3650 Depth,Diesel, OEM Replacement for OEM # 4N5893, Oversize Use SB1817E-3
		SB1812E-6N	1.812 O.D.,1.540 I.D.,0.3650 Depth,+10, & +20 O/S Available,Natural Gas, OEM # 6I4019 & 122-7352; NOTE: Use W/ 20 degree Valve (01857S)
		SB1812E-7	1.812 O.D.,1.535 I.D.,0.3650 Depth,Diesel, Late Style W/ Swirl Plate, OEM # 115-2358
	Exh	SB1813E-1	1.813 O.D.,1.540 I.D.,0.3150 Depth,+10 & +20 O/S Available,Natural Gas, OEM # 214-3286; NOTE: Use W/ 20 Degree Valve (02259S)
		SB1817E-3	1.817 O.D.,1.540T I.D.,0.3650 Depth,+10, +20, +30 & +40 O/S Available,+5 Oversize of SB1812E-3
		SB1687E-1N	1.687 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,Diesel, OEM Replacement For OEM # 9S9699 & 1W5283
		SB1687E-4N	1.687 O.D.,1.410 I.D.,0.3650 Depth,+10 & +20 O/S Available,Natural Gas, OEM # 6I-4014; NOTE: Use W/ 20 degree Valve (01632S)

(Cont'd) **CATERPILLAR / HEAVY DUTY**

1099 C.I., (18.0L), 3408, Diesel, OHV, 32 Valve, ""TURBO""
V8 1099 CID

3408 86
BORE - 137.16mm/5.40"" (cont.)

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1687E-5C	1.687 O.D.,1.318T I.D.,0.3150 Depth,+10 & +20 O/S Available,Natural Gas, OEM # 212-0936; NOTE: Use W/ 20 Degree Valve (02258S)
		SB1693E-1N	1.693 O.D.,17/16T I.D.,0.3650 Depth,+10, +20, +30 O/S Available,Diesel
Valve	Int	01462S	1.771 Head Diameter,Stellite Face,Diesel, OEM # 4W5374
		01857S	1.771 Head Diameter,Stellite Face,Short Valve, Natural Gas. OEM # 122-7353, Late Style. Replaces Part # 9Y-9804 (01633S)
		02259S	1.771 Head Diameter,Inconel, Stellite Face,Long Valve, Natural Gas, OEM # 212-0932; NOTE: 20 Degree W/7.621 Overall Length
	Exh	01468S	1.646 Head Diameter,Stellite Face,Diesel, OEM # 7N4580
		01632S	1.646 Head Diameter,Stellite Face,Short Valve, Natural Gas, OEM # 101-8314
		02258S	1.646 Head Diameter,Inconel, Stellite Face,Long Valve, Natural Gas, OEM # 212-0933; NOTE: 20 Degree W/7.621 Overall Length
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1328	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 6N-7174, W/ Single Spring
		122-1393	Positive Type,Viton Material,Top Hat Style,OEM # 214-6051 & 250-3044
Guide	Int	140-3051	0.3740 I.D.,3.730 Length,0.6890 O.D.,Natural Gas; OEM # 213-7536, Use W/ Long Valve
	Exh	140-3052	0.3740 I.D.,4.130 Length,0.6890 O.D.,Natural Gas; OEM # 213-7537, Use W/ Long Valve
	Both	140-3138	0.3740 I.D.,3.255 Length,0.6890 O.D.,Late Style For Natural Gas; Phosphate Coated, W/ Oil Baffle; OEM # 151-1330; NOTE: Use W/ Short Valve
		140-3145	0.3740 I.D.,3.250 Length,0.6890 O.D.,+2 & +5 O/S Available,Diesel; OEM # 173-7188; NOTE: Late Style; +2 & +5 O/S Available
		140-7216	0.3750 I.D.,3.250 Length,0.6890 O.D.,+2 & +5 O/S Available,Diesel; OEM # 4N2803; NOTE: Early Style
		140-7216SA	0.3750 I.D.,3.250 Length,0.6890 O.D.,+2 O/S Available, ""Special Alloy"", For Ultra Low Sulfur Diesel
		140-7736	0.3740 I.D.,3.250 Length,0.6890 O.D.,Diesel; NOTE: Optional -0.001 Undersized I.D. Of 140-7216
		140-7736SA	0.3740 I.D.,3.250 Length,0.6890 O.D., ""Special Alloy"", For Ultra Low Sulfur Diesel; NOTE: Optional -0.001 Undersized I.D. Of 140-7216SA
		140-8319	0.3741 I.D.,3.250 Length,0.6891 O.D.,Diesel; Non-Heat Treated W/ Counterbored I.D., OEM # 7W1636
140-8485	0.3750 I.D.,3.250 Length,0.6888 O.D.,Counterbored Both Ends,Early Style For Natural Gas; Heat Treated High Strength Alloy; OEM # 7E3413, 123-3984, 151-1329; NOTE: Use W/ Short Valve		
Spring	Both	160-1184	2.470 Length,Single Spring, OEM # 4N5906
		160-1207	2.678 Length,Inner, Dual Spring, OEM # 4W2472
		160-1213	2.341 Length,Outer, Dual Spring, OEM # 4W2471
Rotator	Both	161-1030	W/ Dual Spring, OEM # 4W2474
		161-1038	W/ Single Spring, OEM # 6N7175; NOTE: Includes Oil Shield
Lifter	Both	170-1014	Hydraulic Roller Type,OEM #s 1017788, 4N6233, 4W2475, 4W7108, 6N4589, 9Y4011

1099 C.I., (18.0L), 3408C, Diesel, OHV, 32 Valve, ""TURBO""
V8 1099 CID

3408C 87
BORE - 137.16mm/5.40""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812E-3	1.812 O.D.,1.540T I.D.,0.3650 Depth,OEM Replacement for OEM # 4N5893, Oversize Use SB1817E-3
		SB1817E-3	1.817 O.D.,1.540T I.D.,0.3650 Depth,+10, +20, +30 & +40 O/S Available,+5 Oversize of SB1812E-3
	Exh	SB1687E-1N	1.687 O.D.,17/16T I.D.,0.3650 Depth,OEM # 1W5283

CATERPILLAR / HEAVY DUTY (Cont'd)

87 1099 C.I., (18.0L), 3408C, Diesel, OHV, 32 Valve, ""TURBO"" **3408C**
 (cont.) V8 1099 CID BORE - 137.16mm/5.40""

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1693E-1N	1.693 O.D., 1 ⁷ / ₁₆ T I.D., 0.3650 Depth, +10, +20, +30 O/S Available
Valve	Int	01830S	1.771 Head Diameter, Stellite Face, OEM # 122-0322
	Exh	01831S	1.646 Head Diameter, Stellite Face, OEM # 122-0321
Keeper	Both	121-1000	2 RD Bead Type, OEM # 2A4429
Stem Seal	Both	122-1328	Umbrella Type, Nylon Material, Oil Shield Style, OEM # 6N-7174, W/ Single Spring
		122-1373	Positive Type, Viton Material, Metal Clad Style, OEM # 102-6229, 163-2478
Guide	Both	140-3014	0.3740 I.D., 3.050 Length, 0.6890 O.D., OEM # 122-7374
		140-3145	0.3740 I.D., 3.250 Length, 0.6890 O.D., +2 & +5 O/S Available, OEM # 173-7188
Spring	Both	160-1184	2.470 Length, Single Spring, OEM # 4N5906
		160-1207	2.678 Length, Inner, Dual Spring, OEM # 4W2472
		160-1213	2.341 Length, Outer, Dual Spring, OEM # 4W2471
Rotator	Both	161-1030	W/ Dual Spring, OEM # 4W2474
		161-1038	W/ Single Spring, OEM # 6N7175; NOTE: Includes Oil Shield

88 1099 C.I., (18.0L), 3408E, Diesel, OHV, 32 Valve, ""TURBO"" **3408E**
 V8 1099 CID BORE - 137.16mm/5.40""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1891E-1	1.891 O.D., 1.615T I.D., 0.3060 Depth, +10, +20 & +30 O/S Available, OEM # 1564168, 1753617, 1085912
	Exh	SB1687E-1N	1.687 O.D., 1 ⁷ / ₁₆ T I.D., 0.3650 Depth, OEM Replacement For OEM # 9S9699 & 1W5283
		SB1693E-1N	1.693 O.D., 1 ⁷ / ₁₆ T I.D., 0.3650 Depth, +10, +20, +30 O/S Available
Valve	Int	01911	1.850 Head Diameter, Recommended OEM Nickel Base Inconel Material, 2 Groove, OEM # 153-7023, 236-5605, Replaces Earlier Single Groove OEM # 108-5910
		21911	1.850 Head Diameter, Alternative Austenitic Material, Stellite Face, 2 Groove, NOTE: Can Be Used To Service OEM # 490-7198
	Exh	01912	1.646 Head Diameter, Recommended OEM Nickel Base Inconel Material, 2 Groove, OEM # 153-7024, 289-9231 & Includes Spark Ignited 152-7585, Replaces Earlier Single Groove OEM # 108-5911
		21912	1.646 Head Diameter, Alternative Austenitic Material, Stellite Face, 2 Groove, NOTE: Can Be Used To Service OEM # 391-1107, 464-468, 490-7200
Keeper	Both	121-1000	2 RD Bead Type, OEM # 2A4429
Stem Seal	Both	122-1373	Positive Type, Viton Material, Metal Clad Style, OEM # 102-6229, 163-2478
Guide	Both	140-3007	0.3745 I.D., 3.358 Length, 0.6298 O.D., +2 & +5 O/S Available, OEM # 122-7375
Spring	Both	160-1464	2.823 Length, Inner, OEM # 211-3122
		160-1575	3.185 Length, Outer, OEM # 211-3123, 247-9908
Rotator	Both	161-1047	OEM # 186-2001, For Dual Springs, Replaces Early Single Spring Rotator OEM # 4P-4962 When Used W/ Dual Springs
Rocker Components		187-1087	Valve Bridge Guide, OEM # 363-3731; NOTE: Improved Design, Also Services OEM # 6I-1458 & 348-7743
Injector Tubes and Components		240-1006	Stainless Steel Material, Injector Tube, OEM # 227-4239
		240-1006RB	Viton Material, O-Ring, Small - Bottom, Navy, OEM # 9X7430
		240-1006RM	Aflas Material, O-Ring, Middle, Green, OEM # 166-2904
		240-1006RT	Viton Material, O-Ring, Large - Top, Dark Blue, OEM # 166-2903

(Cont'd) **CATERPILLAR / HEAVY DUTY**

1099 C.I., (18.0L), 3408E, Diesel, OHV, 32 Valve, ""TURBO"" **3408E 88**
V8 1099 CID BORE - 137.16mm/5.40"" (cont.)

PART	PART NO.	NOTES
Injector Tubes and Components	240-1044	Stainless Steel Material,Injector Tube,OEM # 263-4920; NOTE: With Two Top Internal Chamfers, This Sleeve Uses 240-1006RM (Green O-Ring) For Top & Middle Groove And 240-1006RB For Bottom Groove

1099 C.I., (18.0L), G3408, Gas, OHV, 32 Valve, ""Natural Gas"" **G3408 89**
L6 1099 CID BORE - 137.16mm/5.40""

PART	PART NO.	NOTES
Valve Seat Insert	Int	SB1812E-3 1.812 O.D.,1.540T I.D.,0.3650 Depth,OEM Replacement for OEM # 4N5893, 30 Degree; NOTE: Oversize Use SB1817E-3
		SB1812E-6N 1.812 O.D.,1.540 I.D.,0.3650 Depth,+10, & +20 O/S Available,OEM # 122-7352; NOTE: Use W/ 20 Degree Short Valve 01857S
		SB1813E-1 1.813 O.D.,1.540 I.D.,0.3150 Depth,+10 & +20 O/S Available,OEM # 214-3286, NOTE: Use W/ 20 Degree Long Valve 02258S
		SB1817E-3 1.817 O.D.,1.540T I.D.,0.3650 Depth,+10, +20, +30 & +40 O/S Available,+5 Oversize of SB1812E-3
	Exh	SB1687E-4N 1.687 O.D.,1.410 I.D.,0.3650 Depth,+10 & +20 O/S Available,OEM # 198-6529; NOTE: Use W/ 20 Degree Short Valve 01632S
		SB1687E-5C 1.687 O.D.,1.318T I.D.,0.3150 Depth,+10 & +20 O/S Available,OEM # 212-0936, NOTE: Use W/ 20 Degree Long Valve 02258S
Valve	Int	01462S 1.771 Head Diameter,Stellite Face,OEM # 115-2368, NOTE: 30 Degree
		01857S 1.771 Head Diameter,Stellite Face,OEM # 122-7353, 20 Degree Short Valve
		02259S 1.771 Head Diameter,Inconel, Stellite Face,OEM # 212-0932, 20 Degree Long Valve
	Exh	01632S 1.646 Head Diameter,Stellite Face,OEM # 101-8314, 20 Degree Short Valve
		02258S 1.646 Head Diameter,Inconel, Stellite Face,OEM # 212-0933, 20 Degree Long Valve
Keeper	Both	121-1000 2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1328 Umbrella Type,Nylon Material,Oil Shield Style,OEM # 6N7174
Guide	Int	140-3051 0.3740 I.D.,3.730 Length,0.6890 O.D.,OEM # 213-7536, NOTE: Use W/ Long Valves
	Exh	140-3052 0.3740 I.D.,4.130 Length,0.6890 O.D.,OEM # 213-7537, NOTE: Use W/ Long Valves
	Both	140-3138 0.3740 I.D.,3.255 Length,0.6890 O.D.,OEM # 151-1330, Late Style; NOTE: Use W/ Short Valves
		140-8485 0.3750 I.D.,3.250 Length,0.6888 O.D.,Counterbored Both Ends,OEM # 7E3413, 123-3984, 151-1329; Early Style; Heat Treated High Strength Alloy; NOTE: Use W/ Short Valves
Spring	Both	160-1184 2.470 Length,OEM # 4N5906
Rotator	Both	161-1038 OEM # 6N7175

1106 C.I., (18.1L), C18 ACERT, Diesel, OHV, 24 Valve, ""TURBO"" **C18A 90**
L6 1106 CID BORE - 145mm/5.71""

PART	PART NO.	NOTES
Valve Seat Insert	Int	SB1891E-1 1.891 O.D.,1.615T I.D.,0.3060 Depth,+10, +20 & +30 O/S Available,OEM # 1564168, 1753617, 1085912
	Exh	SB1687E-1N 1.687 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,OEM Replacement For OEM # 9S9699 & 1W5283
		SB1693E-1N 1.693 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,+10, +20, +30 O/S Available
Valve	Int	01911 1.850 Head Diameter,Recommended OEM Nickel Base Inconel Material, 2 Groove,OEM # 153-7023, 236-5605
		21911 1.850 Head Diameter,Alternative Austenitic Material, Stellite Face, 2 Groove,NOTE: Can Be Used To Service OEM # 490-7198

CATERPILLAR / HEAVY DUTY (Cont'd)

90 1106 C.I., (18.1L), C18 ACERT, Diesel, OHV, 24 Valve, ""TURBO"" C18A
 (cont.) L6 1106 CID BORE - 145mm/5.71""

PART		PART NO.	NOTES
Valve	Exh	01912	1.646 Head Diameter,Recommended OEM Nickel Base Inconel Material, 2 Groove,OEM # 153-7024, 289-9231
		21912	1.646 Head Diameter,Alternative Austenitic Material, Stellite Face, 2 Groove,NOTE: Can Be Used To Service OEM # 391-1107, 464-468, 490-7200
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1373	Positive Type,Viton Material,Metal Clad Style,OEM # 163-2478
Guide	Both	140-3007	0.3745 I.D.,3.358 Length,0.6298 O.D.,+2 & +5 O/S Available,OEM # 122-7375
Spring	Both	160-1464	2.823 Length,Inner, OEM # 211-3122
		160-1575	3.185 Length,Outer, OEM # 211-3123, 247-9908
Rotator	Both	161-1047	OEM # 186-2001, For Dual Springs, Replaces Early Single Spring Rotator OEM # 4P-4962 When Used W/ Dual Springs
Rocker Components		187-1087	Valve Bridge Guide,OEM # 363-3731; NOTE: Improved Design, Also Services OEM # 6I-1458 & 348-7743
Injector Tubes and Components		240-1006	Stainless Steel Material,Injector Tube,OEM # 227-4239
		240-1006RB	Viton Material,O-Ring, Small - Bottom, Navy,OEM # 9X7430
		240-1006RM	Aflas Material,O-Ring, Middle, Green,OEM # 166-2904
		240-1006RT	Viton Material,O-Ring, Large - Top, Dark Blue,OEM # 166-2903
		240-1044	Stainless Steel Material,Injector Tube,OEM # 263-4920; NOTE: With Two Top Internal Chamfers, This Sleeve Uses 240-1006RM (Green O-Ring) For Top & Middle Groove And 240-1006RB For Bottom Groove

91 1191 C.I., (19.5L), D346, Diesel, OHV, 32 Valve, ""TURBO"" D346
 V8 1191 CID BORE - 137.16mm/5.40""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812E-1	1.812 O.D.,1 ¹ / ₁₆ T I.D.,0.3650 Depth,OEM Replacement for OEM # 9M3205
		SB1818E-1	1.818 O.D.,1 ¹ / ₁₆ T I.D.,0.3650 Depth
		SB1818E-2	1.818 O.D.,1 ¹ / ₁₆ T I.D., ³ / ₈ Depth,+20 O/S Available,W/ .010 Larger Depth
	Exh	SB1687E-1N	1.687 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,OEM Replacement For OEM # 9S9699 & 1W5283
		SB1693E-1N	1.693 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,+10, +20, +30 O/S Available,Exc. Natural Gas
		SB1693E-2	1.693 O.D.,1 ⁷ / ₁₆ T I.D., ³ / ₈ Depth,+20 & +30 O/S Available,W/ .010 Larger Depth
Valve	Int	01146S	1.771 Head Diameter,Stellite Face,Spark Ignited, OEM # 1N4885, 1N4886
	Exh	01145S	1.646 Head Diameter,Stellite Face,OEM # 7E7830
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Guide	Both	140-7255	0.3750 I.D.,2.815 Length,0.6892 O.D.,High Strength Alloy, OEM # 6N2236, +2 O/S Available

92 1246 C.I., (20.4L), D8/D342, Diesel, OHV, 12 Valve, ""N/A & TURBO"" D8_D342
 L6 1246 CID BORE - 146.05mm/5.75""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2503E-2	2.503 O.D.,2 ¹ / ₁₆ T I.D., ¹ / ₂ Depth,OEM Replacement for OEM # 9M8745
		SB2506E-2	2.506 O.D.,2 ¹ / ₁₆ T I.D., ¹ / ₂ Depth,+20 O/S Available,+0.003 Oversize Of OEM # 9M8745
	Exh	SB2503E-1	2.503 O.D.,2.000 I.D., ¹ / ₂ Depth,OEM Replacement for OEM # 8M9810
		SB2506E-1	2.506 O.D.,2.000 I.D., ¹ / ₂ Depth,+20 O/S Available,+0.003 Oversize Of OEM # 8M9810
Valve	Int	00852S	2.343 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8H1993

(Cont'd) **CATERPILLAR / HEAVY DUTY**

1246 C.I., (20.4L), D8/D342, Diesel, OHV, 12 Valve, ""N/A & TURBO""
L6 1246 CID

D8_D342 **92**
BORE - 146.05mm/5.75"" (cont.)

PART		PART NO.	NOTES
Valve	Int	01459S	2.343 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., OEM # 1W1818
	Exh	00574S	2.282 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8H1994
		01458S	2.282 Head Diameter,Stellite Face, 2 Groove,W/.3717 Stem Dia., OEM # 1W1819
Keeper	Both	121-1000	2 RD Bead Type,W/ .3717 Stem Dia., OEM # 2A4429
		121-1030	No Bead Bead Type,W/ .4955 Stem Dia., 3 Required per Valve
Guide	Int	140-6470	0.5005 I.D.,5.250 Length,0.9383 O.D.,Flanged,W/O Valve Rotator W/ .4955 Valve Stem Dia., OEM # 2S0893
	Exh	140-6469	0.5020 I.D.,5.250 Length,0.9383 O.D.,Flanged,W/O Valve Rotator W/ .4955 Valve Stem Dia., OEM # 1S6654
	Both	140-7338	0.5010 I.D.,5.219 Length,0.9385 O.D.,High Strength Alloy,Non-Flanged, Counterbored W/ .4955 Valve Stem Dia., OEM # 7N2051, +2 O/S Available
		140-7604	0.3725 I.D.,5.250 Length,0.9390 O.D.,High Strength Alloy,Non-Flanged, Counterbored W/ .3725 Valve Stem Dia., OEM # 1W1816
		149-1000	0.7850 I.D.,0.500 Length,1.2650 O.D.,Spacer For Non-Flanged Guides. OEM # 3N1414
Spring	Both	160-1196	2.179 Length,Inner, Dual Spring, OEM # 9M5349
		160-1197	2.574 Length,Outer, Dual Spring, OEM # 9M5350
Rotator	Exh	161-1035	OEM # 7N7639

1473 C.I., (24.1L), D9/D353, Diesel, OHV, 12 Valve, ""TURBO""
L6 1473 CID

D9_D353 **93**
BORE - 158.75mm/6.25""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2590E-1	2.590 O.D.,.29/32 I.D.,5/8 Depth,+10 & +20 O/S Available,OEM # 5S1757
	Exh	SB2435E-1	2.435 O.D.,.21/8 I.D.,5/8 Depth,+10 O/S Available,OEM # 8M4014, Exc. Natural Gas
		SB2435E-2N	2.435 O.D.,.21/8 I.D.,0.6250 Depth,OEM # 1S5738, Natural Gas
Valve	Int	00752S	2.505 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 7M7817
		01461S	2.505 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., Late Style OEM # 1W8606
	Exh	00751S	2.350 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8N3723
		01460S	2.350 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., Late Style OEM # 1W1822
Keeper	Both	121-1000	2 RD Bead Type,W/ .3717 Stem Dia., OEM # 2A4429
		121-1030	No Bead Bead Type,.4955 Stem Dia., 3 Required per Valve, OEM # 3B1143
Guide	Int	140-7074H	0.3745 I.D.,5.065 Length,0.8780 O.D.,W/ .3717 Stem Dia., OEM # 2N9298
		140-7083	0.5020 I.D.,5.045 Length,0.8768 O.D.,High Strength Alloy,Non-Flanged, W/ .4955 Stem Dia., OEM # 4N3664, Opt. Spacer 149-1000 Available
		149-1000	0.7850 I.D.,0.500 Length,1.2650 O.D.,Spacer For Non-Flanged Guides. OEM # 3N1414
	Exh	140-7073	0.3745 I.D.,5.450 Length,0.8775 O.D.,OEM # 2N9299
	Both	140-7073H	0.3745 I.D.,5.450 Length,0.8780 O.D.,Optional Hardened Version
		140-7357	0.5020 I.D.,5.438 Length,0.8771 O.D.,High Strength Alloy,Non-Flanged, Counterbored W/ .4955 Stem Dia., OEM # 7S6366.
Spring	Both	160-1191	2.626 Length,Single Spring, OEM # 7S6323
		160-1196	2.179 Length,Inner, Dual Spring, OEM # 9M5349
		160-1197	2.574 Length,Outer, Dual Spring, OEM # 9M5350
Rotator	Exh	161-1035	OEM # 7N7639

CATERPILLAR / HEAVY DUTY (Cont'd)

94 1473 C.I., (24.1L), G353, Gas, OHV, 12 Valve, ""Natural Gas""

G353

L6 1473 CID

BORE - 158.75mm/6.25""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2590E-1	2.590 O.D., ² / ₃₂ T I.D., ⁵ / ₈ Depth,+10 & +20 O/S Available,OEM # 5S1757
	Exh	SB2435E-2N	2.435 O.D., ² / ₈ I.D.,0.6250 Depth,OEM # 1S5738, Natural Gas
Valve	Int	00752S	2.505 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 7M7817
		01461S	2.505 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., Late Style OEM # 1W8606
	Exh	00751S	2.350 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8N3723
		01476S	2.350 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., OEM # 2W3211
Keeper	Both	121-1000	2 RD Bead Type,W/ .3717 Stem Dia., OEM # 2A4429
		121-1030	No Bead Bead Type,.4955 Stem Dia., 3 Required per Valve, OEM # 3B1143
Guide	Int	140-7074H	0.3745 I.D.,5.065 Length,0.8780 O.D.,W/ .3717 Stem Dia., OEM # 2N9298
		140-7083	0.5020 I.D.,5.045 Length,0.8768 O.D.,High Strength Alloy,Non-Flanged, W/ .4955 Stem Dia., OEM # 4N3664, Opt. Spacer 149-1000 Available
	Exh	140-7073	0.3745 I.D.,5.450 Length,0.8775 O.D.,OEM # 2N9299
		140-7073H	0.3745 I.D.,5.450 Length,0.8780 O.D.,Optional Hardened Version
	Both	140-7357	0.5020 I.D.,5.438 Length,0.8771 O.D.,High Strength Alloy,Non-Flanged, Counterbored W/ .4955 Stem Dia., OEM # 7S6366.
		149-1000	0.7850 I.D.,0.500 Length,1.2650 O.D.,Spacer For Non-Flanged Guides. OEM # 3N1414
Spring	Both	160-1191	2.626 Length,Single Spring, OEM # 7S6323
		160-1196	2.179 Length,Inner, Dual Spring, OEM # 9M5349
		160-1197	2.574 Length,Outer, Dual Spring, OEM # 9M5350
Rotator	Exh	161-1035	OEM # 7N7639

95 1648 C.I., (27.0L), C27, Diesel, OHV, 48 Valve, ""Industrial TURBO""

C27

V12 1648 CID

BORE - 137.7mm/5.42""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1891E-2	1.891 O.D.,1.615T I.D.,0.3060 Depth,OEM # 224-3983, 280-3979
	Exh	SB1687E-6C	1.687 O.D.,1.437T I.D.,0.3650 Depth,OEM # 226-5561
Valve	Int	01911	1.850 Head Diameter,Recommended OEM Nickel Base Inconel Material, 2 Groove,OEM # 153-7023, 236-5605
		21911	1.850 Head Diameter,Alternative Austenitic Material, Stellite Face, 2 Groove,NOTE: Can Be Used To Service OEM # 490-7198
	Exh	01912	1.646 Head Diameter,Recommended OEM Nickel Base Inconel Material, 2 Groove,OEM # 153-7024, 289-9231
		21912	1.646 Head Diameter,Alternative Austenitic Material, Stellite Face, 2 Groove,NOTE: Can Be Used To Service OEM # 391-1107, 464-468, 490-7200
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1373	Positive Type,Viton Material,Metal Clad Style,OEM # 102-6229, 163-2478
Guide	Both	140-3007	0.3745 I.D.,3.358 Length,0.6298 O.D.,+2 & +5 O/S Available,OEM # 122-7375
Spring	Both	160-1464	2.823 Length,Inner, OEM # 211-3122
		160-1575	3.185 Length,Outer, OEM # 211-3123, 247-9908
Rotator	Both	161-1047	OEM # 186-2001
Rocker Components		187-1087	Valve Bridge Guide,OEM # 363-3731; NOTE: Improved Design, Also Services OEM # 6I-1458 & 348-7743
Injector Tubes and Components		240-1006	Stainless Steel Material,Injector Tube,OEM # 227-4239

(Cont'd) **CATERPILLAR / HEAVY DUTY**

1648 C.I., (27.0L), C27, Diesel, OHV, 48 Valve, ""Industrial TURBO"" **C27 95**
V12 1648 CID **BORE - 137.7mm/5.42"" (cont.)**

PART	PART NO.	NOTES
Injector Tubes and Components	240-1006RB	Viton Material,O-Ring, Small - Bottom, Navy,OEM # 9X7430
	240-1006RM	Aflas Material,O-Ring, Middle, Green,OEM # 166-2904
	240-1006RT	Viton Material,O-Ring, Large - Top, Dark Blue,OEM # 166-2903
	240-1044	Stainless Steel Material,Injector Tube,OEM # 263-4920; NOTE: With Two Top Internal Chamfers, This Sleeve Uses 240-1006RM (Green O-Ring) For Top & Middle Groove And 240-1006RB For Bottom Groove

1649 C.I., (27.0L), 3412, Diesel, OHV, 48 Valve, ""TURBO"" **3412 96**
V12 1649 CID **BORE - 137.16mm/5.40""**

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1812E-3	1.812 O.D.,1.540T I.D.,0.3650 Depth,Diesel, OEM Replacement for OEM # 4N5893, Oversize Use SB1817E-3
	SB1812E-6N	1.812 O.D.,1.540 I.D.,0.3650 Depth,+10, & +20 O/S Available,Natural Gas, OEM # 6I4019 & 122-7352; NOTE: Use W/ 20 degree Valve (01857S)
	SB1812E-7	1.812 O.D.,1.535 I.D.,0.3650 Depth,Diesel, Late Style W/ Swirl Plate, OEM # 115-2358
	SB1813E-1	1.813 O.D.,1.540 I.D.,0.3150 Depth,+10 & +20 O/S Available,Natural Gas, OEM # 214-3286; NOTE: Use W/ 20 Degree Valve (02259S)
	SB1817E-3	1.817 O.D.,1.540T I.D.,0.3650 Depth,+10, +20, +30 & +40 O/S Available,+5 Oversize of SB1812E-3
	Exh SB1687E-1N	1.687 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,Diesel, OEM Replacement For OEM # 9S9699 & 1W5283
	SB1687E-4N	1.687 O.D.,1.410 I.D.,0.3650 Depth,+10 & +20 O/S Available,Natural Gas, OEM # 6I-4014; NOTE: Use W/ 20 degree Valve (01632S)
	SB1687E-5C	1.687 O.D.,1.318T I.D.,0.3150 Depth,+10 & +20 O/S Available,Natural Gas, OEM # 212-0936; NOTE: Use W/ 20 Degree Valve (02258S)
SB1693E-1N	1.693 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,+10, +20, +30 O/S Available,Diesel	
Valve	Int 01462S	1.771 Head Diameter,Stellite Face,Diesel, OEM # 4W5374
	01857S	1.771 Head Diameter,Stellite Face,Short Valve, Natural Gas. OEM # 122-7353, Late Style. Replaces Part # 9Y-9804 (01633S)
	02259S	1.771 Head Diameter,Inconel, Stellite Face,Long Valve, Natural Gas, OEM # 212-0932; NOTE: 20 Degree W/7.621 Overall Length
	Exh 01468S	1.646 Head Diameter,Stellite Face,Diesel, OEM # 7N4580
	01632S	1.646 Head Diameter,Stellite Face,Short Valve, Natural Gas, OEM # 101-8314
02258S	1.646 Head Diameter,Inconel, Stellite Face,Long Valve, Natural Gas, OEM # 212-0933; NOTE: 20 Degree W/7.621 Overall Length	
Keeper	Both 121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both 122-1328	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 6N-7174, W/ Single Spring
	122-1393	Positive Type,Viton Material,Top Hat Style,OEM # 214-6051 & 250-3044
Guide	Int 140-3051	0.3740 I.D.,3.730 Length,0.6890 O.D.,Natural Gas; OEM # 213-7536, Use W/ Long Valve
	Exh 140-3052	0.3740 I.D.,4.130 Length,0.6890 O.D.,Natural Gas; OEM # 213-7537, Use W/ Long Valve
	Both 140-3138	0.3740 I.D.,3.255 Length,0.6890 O.D.,Late Style For Natural Gas; Phosphate Coated, W/ Oil Baffle; OEM # 151-1330; NOTE: Use W/ Short Valve
	140-3145	0.3740 I.D.,3.250 Length,0.6890 O.D.,+2 & +5 O/S Available,Diesel; OEM # 173-7188; NOTE: Late Style; +2 & +5 O/S Available
	140-7216	0.3750 I.D.,3.250 Length,0.6890 O.D.,+2 & +5 O/S Available,Diesel; OEM # 4N2803; NOTE: Early Style
	140-7216SA	0.3750 I.D.,3.250 Length,0.6890 O.D.,+2 O/S Available, ""Special Alloy"" , For Ultra Low Sulfur Diesel

CATERPILLAR / HEAVY DUTY (Cont'd)

96 1649 C.I., (27.0L), 3412, Diesel, OHV, 48 Valve, ""TURBO"" 3412
 (cont.) V12 1649 CID BORE - 137.16mm/5.40""

PART		PART NO.	NOTES
Guide	Both	140-7736	0.3740 I.D.,3.250 Length,0.6890 O.D.,Diesel; NOTE: Optional -0.001 Undersized I.D. Of 140-7216
		140-7736SA	0.3740 I.D.,3.250 Length,0.6890 O.D., ""Special Alloy"", For Ultra Low Sulfur Diesel; NOTE: Optional -0.001 Undersized I.D. Of 140-7216SA
		140-8319	0.3741 I.D.,3.250 Length,0.6891 O.D.,Diesel; Non-Heat Treated W/ Counterbored I.D., OEM # 7W1636
		140-8485	0.3750 I.D.,3.250 Length,0.6888 O.D.,Counterbored Both Ends,Early Style For Natural Gas; Heat Treated High Strength Alloy; OEM # 7E3413, 123-3984, 151-1329; NOTE: Use W/ Short Valve
Spring	Both	160-1184	2.470 Length,Single Spring, OEM # 4N5906
		160-1207	2.678 Length,Inner, Dual Spring, OEM # 4W2472
		160-1213	2.341 Length,Outer, Dual Spring, OEM # 4W2471
Rotator	Exh	161-1030	W/ Dual Spring, OEM # 4W2474
	Both	161-1038	W/ Single Spring, OEM # 6N7175; NOTE: Includes Oil Shield
Lifter	Both	170-1014	Hydraulic Roller Type,OEM #s 1017788, 4N6233, 4W2475, 4W7108, 6N4589, 9Y4011

97 1649 C.I., (27.0L), 3412C, Diesel, OHV, 48 Valve, ""TURBO"" 3412C
 V12 1649 CID BORE - 137.16mm/5.40""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812E-3	1.812 O.D.,1.540T I.D.,0.3650 Depth,OEM Replacement for OEM # 4N5893, Oversize Use SB1817E-3
		SB1817E-3	1.817 O.D.,1.540T I.D.,0.3650 Depth,+10, +20, +30 & +40 O/S Available,+5 Oversize of SB1812E-3
	Exh	SB1687E-1N	1.687 O.D.,1 ¹ / ₁₆ T I.D.,0.3650 Depth,OEM # 1W5283
		SB1693E-1N	1.693 O.D.,1 ¹ / ₁₆ T I.D.,0.3650 Depth,+10, +20, +30 O/S Available
Valve	Int	01830S	1.771 Head Diameter,Stellite Face,OEM # 122-0322
	Exh	01831S	1.646 Head Diameter,Stellite Face,OEM # 122-0321
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1328	Umbrella Type,Nylon Material,Oil Shield Style,W/ Single Spring, OEM # 6N-7174
		122-1373	Positive Type,Viton Material,Metal Clad Style,OEM # 102-6229, 163-2478
Guide	Both	140-3014	0.3740 I.D.,3.050 Length,0.6890 O.D.,OEM # 122-7374
		140-3145	0.3740 I.D.,3.250 Length,0.6890 O.D.,+2 & +5 O/S Available,OEM # 173-7188
Spring	Both	160-1184	2.470 Length,Single Spring, OEM # 4N5906
		160-1207	2.678 Length,Inner, Dual Spring, OEM # 4W2472
		160-1213	2.341 Length,Outer, Dual Spring, OEM # 4W2471
Rotator	Both	161-1030	W/ Dual Spring, OEM # 4W2474
		161-1038	W/ Single Spring, OEM # 6N7175; NOTE: Includes Oil Shield

98 1649 C.I., (27.0L), 3412E, Diesel, OHV, 48 Valve, ""TURBO"" 3412E
 V12 1649 CID BORE - 137.16mm/5.40""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1891E-1	1.891 O.D.,1.615T I.D.,0.3060 Depth,+10, +20 & +30 O/S Available,OEM # 1564168, 1753617, 1085912
	Exh	SB1687E-1N	1.687 O.D.,1 ¹ / ₁₆ T I.D.,0.3650 Depth,OEM Replacement For OEM # 9S9699 & 1W5283
		SB1693E-1N	1.693 O.D.,1 ¹ / ₁₆ T I.D.,0.3650 Depth,+10, +20, +30 O/S Available
Valve	Int	01911	1.850 Head Diameter,Recommended OEM Nickel Base Inconel Material, 2 Groove,OEM # 153-7023, 236-5605, Replaces Earlier Single Groove OEM # 108-5910

(Cont'd) **CATERPILLAR / HEAVY DUTY**

1649 C.I., (27.0L), 3412E, Diesel, OHV, 48 Valve, ""TURBO""
V12 1649 CID

3412E 98
BORE - 137.16mm/5.40"" (cont.)

PART	PART NO.	NOTES
Valve	Int 21911	1.850 Head Diameter,Alternative Austenitic Material, Stellite Face, 2 Groove,NOTE: Can Be Used To Service OEM # 490-7198
	Exh 01912	1.646 Head Diameter,Recommended OEM Nickel Base Inconel Material, 2 Groove,OEM # 153-7024, 289-9231 & Includes Spark Ignited 152-7585, Replaces Earlier Single Groove OEM # 108-5911
	21912	1.646 Head Diameter,Alternative Austenitic Material, Stellite Face, 2 Groove,NOTE: Can Be Used To Service OEM # 391-1107, 464-468, 490-7200
Keeper	Both 121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both 122-1373	Positive Type,Viton Material,Metal Clad Style,OEM # 102-6229, 163-2478
Guide	Both 140-3007	0.3745 I.D.,3.358 Length,0.6298 O.D.,+2 & +5 O/S Available,OEM # 122-7375
Spring	Both 160-1464	2.823 Length,Inner, OEM # 211-3122
	160-1575	3.185 Length,Outer, OEM # 211-3123, 247-9908
Rotator	Both 161-1047	OEM # 186-2001, For Dual Springs, Replaces Early Single Spring Rotator OEM # 4P-4962 When Used W/ Dual Springs
Rocker Components	187-1087	Valve Bridge Guide,OEM # 363-3731; NOTE: Improved Design, Also Services OEM # 61-1458 & 348-7743
Injector Tubes and Components	240-1006	Stainless Steel Material,Injector Tube,OEM # 227-4239
	240-1006RB	Viton Material,O-Ring, Small - Bottom, Navy,OEM # 9X7430
	240-1006RM	Aflas Material,O-Ring, Middle, Green,OEM # 166-2904
	240-1006RT	Viton Material,O-Ring, Large - Top, Dark Blue,OEM # 166-2903
	240-1044	Stainless Steel Material,Injector Tube,OEM # 263-4920; NOTE: With Two Top Internal Chamfers, This Sleeve Uses 240-1006RM (Green O-Ring) For Top & Middle Groove And 240-1006RB For Bottom Groove

1649 C.I., (27.0L), G3412, Gas, OHV, 48 Valve, ""Natural Gas""
V12 1649 CID

G3412 99
BORE - 137.16mm/5.40""

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1812E-3	1.812 O.D.,1.540T I.D.,0.3650 Depth,OEM Replacement for OEM # 4N5893, 30 Degree; NOTE: Oversize Use SB1817E-3
	SB1812E-6N	1.812 O.D.,1.540 I.D.,0.3650 Depth,+10, & +20 O/S Available,OEM # 122-7352; NOTE: Use W/ 20 Degree Short Valve 01857S
	SB1813E-1	1.813 O.D.,1.540 I.D.,0.3150 Depth,+10 & +20 O/S Available,OEM # 214-3286, NOTE: Use W/ 20 Degree Long Valve 02258S
	SB1817E-3	1.817 O.D.,1.540T I.D.,0.3650 Depth,+10, +20, +30 & +40 O/S Available,+5 Oversize of SB1812E-3
	Exh SB1687E-4N	1.687 O.D.,1.410 I.D.,0.3650 Depth,+10 & +20 O/S Available,OEM # 198-6529; NOTE: Use W/ 20 Degree Short Valve 01632S
	SB1687E-5C	1.687 O.D.,1.318T I.D.,0.3150 Depth,+10 & +20 O/S Available,OEM # 212-0936, NOTE: Use W/ 20 Degree Long Valve 02258S
Valve	Int 01462S	1.771 Head Diameter,Stellite Face,OEM # 115-2368, NOTE: 30 Degree
	01857S	1.771 Head Diameter,Stellite Face,OEM # 122-7353, 20 Degree Short Valve
	02259S	1.771 Head Diameter,Inconel, Stellite Face,OEM # 212-0932, 20 Degree Long Valve
	13430S	1.771 Head Diameter,Inconel, Stellite Face,OEM # 358-1229; NOTE: Late 20 Degree Long Valve W/ 7.766 Overall Length
	Exh 01632S	1.646 Head Diameter,Stellite Face,OEM # 101-8314, 20 Degree Short Valve
	02258S	1.646 Head Diameter,Inconel, Stellite Face,OEM # 212-0933, 20 Degree Long Valve
	13431S	1.646 Head Diameter,Inconel, Stellite Face,OEM # 358-1230; NOTE: Late 20 Degree Long Valve W/ 7.766 Overall Length

CATERPILLAR / HEAVY DUTY (Cont'd)

99 1649 C.I., (27.0L), G3412, Gas, OHV, 48 Valve, ""Natural Gas"" G3412
 (cont.) V12 1649 CID BORE - 137.16mm/5.40""

PART		PART NO.	NOTES
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1328	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 6N7174
Guide	Int	140-3051	0.3740 I.D.,3.730 Length,0.6890 O.D.,OEM # 213-7536, NOTE: Use W/ Long Valves
	Exh	140-3052	0.3740 I.D.,4.130 Length,0.6890 O.D.,OEM # 213-7537, NOTE: Use W/ Long Valves
	Both	140-3138	0.3740 I.D.,3.255 Length,0.6890 O.D.,OEM # 151-1330, Late Style; NOTE: Use W/ Short Valves
		140-8485	0.3750 I.D.,3.250 Length,0.6888 O.D.,Counterbored Both Ends,OEM # 7E3413, 123-3984, 151-1329; Early Style; Heat Treated High Strength Alloy; NOTE: Use W/ Short Valves
Spring	Both	160-1184	2.470 Length,OEM # 4N5906
Rotator	Both	161-1038	OEM # 6N7175

100 1662 C.I., (27.2L), D364, Diesel, OHV, 16 Valve D364
 V8 1662 CID BORE - 146.05mm/5.75""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2503E-2	2.503 O.D.,2 ¹ / ₁₆ T I.D.,1/2 Depth,OEM Replacement for OEM # 9M8745
		SB2506E-2	2.506 O.D.,2 ¹ / ₁₆ T I.D.,1/2 Depth,+20 O/S Available,+0.003 Oversize Of OEM # 9M8745
	Exh	SB2503E-1	2.503 O.D.,2.000 I.D.,1/2 Depth,OEM Replacement for OEM # 8M9810
		SB2506E-1	2.506 O.D.,2.000 I.D.,1/2 Depth,+20 O/S Available,+0.003 Oversize Of OEM # 8M9810
Valve	Int	00852S	2.343 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8H1993
		01459S	2.343 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., OEM # 1W1818
	Exh	00574S	2.282 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8H1994
		01458S	2.282 Head Diameter,Stellite Face, 2 Groove,W/.3717 Stem Dia., OEM # 1W1819
Keeper	Both	121-1000	2 RD Bead Type,W/ .3717 Stem Dia., OEM # 2A4429
		121-1030	No Bead Bead Type,.4955 Stem Dia., 3 Required per Valve, OEM # 3B1143
Guide	Int	140-6470	0.5005 I.D.,5.250 Length,0.9383 O.D.,Flanged,W/O Valve Rotator W/ .4955 Valve Stem Dia., OEM # 2S0893
	Exh	140-6469	0.5020 I.D.,5.250 Length,0.9383 O.D.,Flanged,W/O Valve Rotator W/ .4955 Valve Stem Dia., OEM # 1S6654
	Both	140-7338	0.5010 I.D.,5.219 Length,0.9385 O.D.,High Strength Alloy,Non-Flanged, Counterbored W/ .4955 Valve Stem Dia., OEM # 7N2051, +2 O/S Available
		140-7604	0.3725 I.D.,5.250 Length,0.9390 O.D.,High Strength Alloy,Non-Flanged, W/ .3725 Valve Stem Dia., OEM # 1W1816
		149-1000	0.7850 I.D.,0.500 Length,1.2650 O.D.,Spacer For Non-Flanged Guides. OEM # 3N1414
Spring	Both	160-1196	2.179 Length,Inner, Dual Spring, OEM # 9M5349
		160-1197	2.574 Length,Outer, Dual Spring, OEM # 9M5350
Rotator	Exh	161-1035	OEM # 7N7639

101 1662 C.I., (27.2L), D375, Diesel, OHV, 16 Valve D375
 V8 1662 CID BORE - 146.05mm/5.75""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2503E-2	2.503 O.D.,2 ¹ / ₁₆ T I.D.,1/2 Depth,OEM Replacement for OEM # 9M8745
		SB2506E-2	2.506 O.D.,2 ¹ / ₁₆ T I.D.,1/2 Depth,+20 O/S Available,+0.003 Oversize Of OEM # 9M8745

(Cont'd) **CATERPILLAR / HEAVY DUTY**

1662 C.I., (27.2L), D375, Diesel, OHV, 16 Valve
V8 1662 CID

D375 101
BORE - 146.05mm/5.75" (cont.)

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB2503E-1	2.503 O.D.,2.000 I.D.,½ Depth,OEM Replacement for OEM # 8M9810
		SB2506E-1	2.506 O.D.,2.000 I.D.,½ Depth,+20 O/S Available,+0.003 Oversize Of OEM # 8M9810
Valve	Int	00852S	2.343 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8H1993
		01459S	2.343 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., OEM # 1W1818
	Exh	00574S	2.282 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8H1994
		01458S	2.282 Head Diameter,Stellite Face, 2 Groove,W/.3717 Stem Dia., OEM # 1W1819
Keeper	Both	121-1000	2 RD Bead Type,W/ .3717 Stem Dia., OEM #2A4429
		121-1030	No Bead Bead Type,.4955 Stem Dia., 3 Required per Valve, OEM # 3B1143
Guide	Int	140-6470	0.5005 I.D.,5.250 Length,0.9383 O.D.,Flanged,W/O Valve Rotator W/ .4955 Valve Stem Dia., OEM # 2S0893
	Exh	140-6469	0.5020 I.D.,5.250 Length,0.9383 O.D.,Flanged,W/O Valve Rotator W/ .4955 Valve Stem Dia., OEM # 1S6654
	Both	140-7338	0.5010 I.D.,5.219 Length,0.9385 O.D.,High Strength Alloy,Non-Flanged, Counterbored W/ .4955 Valve Stem Dia., OEM # 7N2051, +2 O/S Available
		140-7604	0.3725 I.D.,5.250 Length,0.9390 O.D.,High Strength Alloy,Non-Flanged, W/ .3725 Valve Stem Dia., OEM # 1W1816
		149-1000	0.7850 I.D.,0.500 Length,1.2650 O.D.,Spacer For Non-Flanged Guides. OEM # 3N1414
Spring	Both	160-1196	2.179 Length,Inner, Dual Spring, OEM # 9M5349
		160-1197	2.574 Length,Outer, Dual Spring, OEM # 9M5350
Rotator	Exh	161-1035	OEM # 7N7639

1786 C.I., (29.2L), D348, Diesel, OHV, 48 Valve
V12 1786 CID

D348 102
BORE - 137.16mm/5.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812E-1	1.812 O.D.,1 ¹ / ₁₆ T I.D.,0.3650 Depth,OEM Replacement for OEM # 9M3205
		SB1818E-1	1.818 O.D.,1 ¹ / ₁₆ T I.D.,0.3650 Depth
		SB1818E-2	1.818 O.D.,1 ¹ / ₁₆ T I.D., ³ / ₈ Depth,+20 O/S Available,W/ .010 Larger Depth
	Exh	SB1687E-1N	1.687 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,OEM Replacement For OEM # 9S9699 & 1W5283
		SB1693E-1N	1.693 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,+10, +20, +30 O/S Available,Exc. Natural Gas
		SB1693E-2	1.693 O.D.,1 ⁷ / ₁₆ T I.D., ³ / ₈ Depth,+20 & +30 O/S Available,W/ .010 Larger Depth
Valve	Int	01146S	1.771 Head Diameter,Stellite Face,Spark Ignited, OEM # 1N4885, 1N4886
	Exh	01145S	1.646 Head Diameter,Stellite Face,OEM # 7E7830
Keeper	Both	121-1000	2 RD Bead Type,OEM #2A4429
Guide	Both	140-7255	0.3750 I.D.,2.815 Length,0.6892 O.D.,High Strength Alloy, OEM # 6N2236, +2 O/S Available

1959 C.I., (32.1L), C32, Diesel, OHV, 48 Valve, ""Industrial TURBO""
V12 1959 CID

C32 103
BORE - 145.0mm/5.71"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1891E-2	1.891 O.D.,1.615T I.D.,0.3060 Depth,OEM # 224-3983, 280-3979
	Exh	SB1687E-6C	1.687 O.D.,1.437T I.D.,0.3650 Depth,OEM # 226-5561
Valve	Int	01911	1.850 Head Diameter,Recommended OEM Nickel Base Inconel Material, 2 Groove,OEM # 153-7023, 236-5605

CATERPILLAR / HEAVY DUTY (Cont'd)

103 1959 C.I., (32.1L), C32, Diesel, OHV, 48 Valve, ""Industrial TURBO"" **C32**
 (cont.) V12 1959 CID BORE - 145.0mm/5.71""

PART		PART NO.	NOTES
Valve	Int	21911	1.850 Head Diameter,Alternative Austenitic Material, Stellite Face, 2 Groove,NOTE: Can Be Used To Service OEM # 490-7198
	Exh	01912	1.646 Head Diameter,Recommended OEM Nickel Base Inconel Material, 2 Groove,OEM # 153-7024, 289-9231
		21912	1.646 Head Diameter,Alternative Austenitic Material, Stellite Face, 2 Groove,NOTE: Can Be Used To Service OEM # 391-1107, 464-468, 490-7200
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1373	Positive Type,Viton Material,Metal Clad Style,OEM # 102-6229, 163-2478
Guide	Both	140-3007	0.3745 I.D.,3.358 Length,0.6298 O.D.,+2 & +5 O/S Available,OEM # 122-7375
Spring	Both	160-1464	2.823 Length,Inner, OEM # 211-3122
		160-1575	3.185 Length,Outer, OEM # 211-3123, 247-9908
Rotator	Both	161-1047	OEM # 186-2001
Rocker Components		187-1087	Valve Bridge Guide,OEM # 363-3731; NOTE: Improved Design, Also Services OEM # 6I-1458 & 348-7743
Injector Tubes and Components		240-1006	Stainless Steel Material,Injector Tube,OEM # 227-4239
		240-1006RB	Viton Material,O-Ring, Small - Bottom, Navy,OEM # 9X7430
		240-1006RM	Aflas Material,O-Ring, Middle, Green,OEM # 166-2904
		240-1006RT	Viton Material,O-Ring, Large - Top, Dark Blue,OEM # 166-2903
		240-1044	Stainless Steel Material,Injector Tube,OEM # 263-4920; NOTE: With Two Top Internal Chamfers, This Sleeve Uses 240-1006RM (Green O-Ring) For Top & Middle Groove And 240-1006RB For Bottom Groove

104 1964 C.I., (32.3L), D379, Diesel, OHV, 16 Valve **D379**
V8 1964 CID BORE - 158.75mm/6.25""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2590E-1	2.590 O.D.,2 ⁹ / ₃₂ T I.D.,5 ⁸ / ₁₆ Depth,+10 & +20 O/S Available,OEM # 5S1757
	Exh	SB2435E-1	2.435 O.D.,2 ¹ / ₈ T I.D.,5 ⁸ / ₁₆ Depth,+10 O/S Available,OEM # 8M4014
		SB2435E-2N	2.435 O.D.,2 ¹ / ₈ I.D.,0.6250 Depth,OEM # 1S5738
Valve	Int	00752S	2.505 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 7M7817
		01461S	2.505 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., Late Style OEM # 1W8606
	Exh	00751S	2.350 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8N3723
		01460S	2.350 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., Late Style OEM # 1W1822
Keeper	Both	121-1000	2 RD Bead Type,W/ .3717 Stem Dia., OEM #2A4429
		121-1030	No Bead Bead Type,W/ .4955 Stem Dia., 3 Required per Valve, OEM # 3B1143
Guide	Int	140-7074H	0.3745 I.D.,5.065 Length,0.8780 O.D.,W/ .3717 Stem Dia., OEM # 2N9298
		140-7083	0.5020 I.D.,5.045 Length,0.8768 O.D.,High Strength Alloy,Non-Flanged, W/ .4955 Stem Dia., OEM # 4N3664, Opt. Spacer 149-1000 Available
	Exh	140-7073	0.3745 I.D.,5.450 Length,0.8775 O.D.,OEM # 2N9299
		140-7073H	0.3745 I.D.,5.450 Length,0.8780 O.D.,Optional Hardened Version
		140-7357	0.5020 I.D.,5.438 Length,0.8771 O.D.,High Strength Alloy,Non-Flanged, Counterbored W/ .4955 Stem Dia., OEM # 7S6366, Opt. Spacer 149-1000 Available
	149-1000	0.7850 I.D.,0.500 Length,1.2650 O.D.,Spacer For Non-Flanged Guides. OEM # 3N1414	
Spring	Both	160-1191	2.626 Length,Single Spring, OEM # 7S6323

(Cont'd) **CATERPILLAR / HEAVY DUTY**

1964 C.I., (32.3L), D379, Diesel, OHV, 16 Valve

D379 104

V8 1964 CID

BORE - 158.75mm/6.25" (cont.)

PART		PART NO.	NOTES
Spring	Both	160-1196	2.179 Length,Inner, Dual Spring, OEM # 9M5349
		160-1197	2.574 Length,Outer, Dual Spring, OEM # 9M5350
Rotator	Exh	161-1035	OEM # 7N7639

1964 C.I., (32.3L), G379, Gas, OHV, 16 Valve, ""Natural Gas""

G379 105

V8 1964 CID

BORE - 158.75mm/6.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2590E-1	2.590 O.D.,2 ⁹ / ₃₂ T I.D.,.5 ¹ / ₈ Depth,+10 & +20 O/S Available,OEM # 5S1757
	Exh	SB2435E-2N	2.435 O.D.,2 ¹ / ₈ I.D.,0.6250 Depth,OEM # 1S5738, Natural Gas
Valve	Int	00752S	2.505 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 7M7817
		01461S	2.505 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., Late Style OEM # 1W8606
	Exh	00751S	2.350 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8N3723; NOTE: S/N 72B 1-84
		01460S	2.350 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., Late Style OEM # 1W1822
Keeper	Both	121-1000	2 RD Bead Type,W/ .3717 Stem Dia., OEM #2A4429
		121-1030	No Bead Bead Type,.4955 Stem Dia., 3 Required per Valve, OEM # 3B1143
Guide	Int	140-7074H	0.3745 I.D.,5.065 Length,0.8780 O.D.,W/ .3717 Stem Dia., OEM # 2N9298
		140-7083	0.5020 I.D.,5.045 Length,0.8768 O.D.,High Strength Alloy,Non-Flanged, W/ .4955 Stem Dia., OEM # 4N3664, Opt. Spacer 149-1000 Available
	Exh	140-7073	0.3745 I.D.,5.450 Length,0.8775 O.D.,OEM # 2N9299
		140-7073H	0.3745 I.D.,5.450 Length,0.8780 O.D.,Optional Hardened Version
	Both	140-7357	0.5020 I.D.,5.438 Length,0.8771 O.D.,High Strength Alloy,Non-Flanged, Counterbored W/ .4955 Stem Dia., OEM # 7S6366, Opt. Spacer 149-1000 Available
		149-1000	0.7850 I.D.,0.500 Length,1.2650 O.D.,Spacer For Non-Flanged Guides. OEM # 3N1414
Spring	Both	160-1191	2.626 Length,Single Spring, OEM # 7S6323
		160-1196	2.179 Length,Inner, Dual Spring, OEM # 9M5349
		160-1197	2.574 Length,Outer, Dual Spring, OEM # 9M5350
Rotator	Exh	161-1035	OEM # 7N7639

2107 C.I., (34.5L), 3508, Diesel, OHV, 32 Valve, ""TURBO""

3508 106

V8 2107 CID

BORE - 170mm/6.69"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2368E-3N	2.368 O.D.,1.890T I.D.,0.4600 Depth,OEM # 122-5963, Natural Gas Late Style W/ Swirl Plate
		SB2387E-1	2.387 O.D.,1.970T I.D.,0.3820 Depth,OEM # 7E5862 & 136-9630, Exc. Natural Gas
		SB2388E-2N	2.388 O.D.,1.890T I.D.,0.4600 Depth,OEM # 266-8718; Natural Gas Late Style W/ Swirl Plate; NOTE: Can Be Used As +0.020 Oversize Of SB2368E-3N
	Exh	SB2367E-1	2.367 O.D.,2.045 I.D.,0.3820 Depth,OEM # 1W1801, Exc. Natural Gas
	Both	SB2368E-2N	2.368 O.D.,1.890 I.D.,0.4600 Depth,OEM # 7W-0028, 6I-1713 & 191-6760; Natural Gas; NOTE: SB2388E-1N Can Be Used As +020 Oversized O.D.
Valve	Both	01498S	2.205 Head Diameter,Stellite Face,Diesel, OEM # 7E4609 & 7C6217
		01584S	2.205 Head Diameter,Stellite Face,Spark Ignited OEM # 104-7184
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1302	Positive Type,Viton Material,Top Hat Style,OEM # 137-6856 & 197-7006; NOTE: Use W/ 140-8679 Valve Guide

CATERPILLAR / HEAVY DUTY (Cont'd)

106 2107 C.I., (34.5L), 3508, Diesel, OHV, 32 Valve, ""TURBO""
(cont.) V8 2107 CID

3508
BORE - 170mm/6.69""

PART		PART NO.	NOTES
Guide	Int	140-3036	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5495, W/ Step For Stem Seal, W/ Oil Baffle, +5, +10 & +20 O/S Available
	Exh	140-3035	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5494, W/ Counterbore, W/ Step For Stem Seal, W/ Oil Baffle, +10 & +20 O/S Available
		140-3144	0.3735 I.D.,3.615 Length,0.6890 O.D.,OEM # 9Y-1846
	Both	140-3143	0.3735 I.D.,4.060 Length,0.6890 O.D.,OEM # 9Y-1847
		140-8679	0.3735 I.D.,4.060 Length,0.6885 O.D.,W/ Step For Stem Seal, Late Style, OEM # 7N-1819 or 133-9306, +5 O/S Available
Spring	Both	160-1396	2.075 Length,Inner, OEM # 7N1903
		160-1397	2.500 Length,Outer, OEM # 7N1904
Rotator	Both	161-1069	OEM # 133-3814 & 197-6999

107 2107 C.I., (34.5L), 3508B, Diesel, OHV, 32 Valve, ""Industrial/Marine TURBO"" 3508BIM
V8 2107 CID BORE - 170mm/6.69""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2387E-2	2.387 O.D.,1.890 I.D.,0.3610 Depth,OEM # 130-2607
	Exh	SB2366E-2N	2.366 O.D.,1.977 I.D.,0.3920 Depth,OEM # 130-2608
Valve	Int	01804	2.205 Head Diameter,OEM # 121-2028, 210-2542, 468-8824, 20 Degree Seat
	Exh	01805S	2.205 Head Diameter,Stellite Face,OEM # 121-9835
		02168S	2.205 Head Diameter,Stellite Face,OEM # 194-4897, 443-2712, 468-8825, W/.495 Stem
Keeper	Exh	121-1095	1 SQ Bead Type,OEM # 197-7055, W/ .495 Stem Dia.
	Both	121-1000	2 RD Bead Type,OEM # 2A4429, W/ 3/8 Stem Dia.
Stem Seal	Int	122-1302	Positive Type,Viton Material,Top Hat Style,OEM # 137-6856 & 197-7006; NOTE: Use W/ 140-8679 Valve Guide
		122-1490	Positive Type,Viton Material,Top Hat Style,OEM # 316-5980; NOTE: Updated Version For Head Group 201-4257 & 317-2440; Must Be Used With 160-1676 (Inner) & 160-1677 (Outer) Valve Springs
	Exh	122-1414	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 234-8776, Oil Shield, Use With .495 Stem Dia
Guide	Exh	140-3042	0.4977 I.D.,4.055 Length,0.6886 O.D.,OEM # 197-6995, W/ .495 Stem Dia., +5 O/S Available
	Both	140-8679	0.3735 I.D.,4.060 Length,0.6885 O.D.,OEM # 133-9306, W/ 3/8 Stem Dia., +5 O/S Available
Spring	Both	160-1460	2.425 Length,OEM # 194-4902, Inner
		160-1461	3.030 Length,OEM #'s 194-4901 & 281-6157, Outer
		160-1676	2.840 Length,OEM # 316-5977, Inner, W/ Yellow Stripe; NOTE: Updated Version For 201-4257 & 317-2440 Head Groups; Must Replace In Sets and Must Be Used With 160-1677 Outer
		160-1677	3.017 Length,OEM # 316-5976, Outer, W/ Yellow Stripe; NOTE: Updated Version For 201-4257 & 317-2440 Head Groups; Must Replace In Sets and Must Be Used With 160-1676 Inner
Rotator	Int	161-1067	OEM # 197-7062, W/ 3/8 Stem Dia.
		161-1077	OEM # 316-5978; NOTE: Updated Version For Head Group 201-4257 & 317-2440; Must Be Used With 160-1676 (Inner) & 160-1677 (Outer) Valve Springs
	Exh	161-1068	OEM # 197-7063, W/ .495 Stem Dia.
		161-1078	OEM # 316-5979; NOTE: Updated Version For Head Group 201-4257 & 317-2440; Must Be Used With 160-1676 (Inner) & 160-1677 (Outer) Valve Springs

(Cont'd) **CATERPILLAR / HEAVY DUTY**

2107 C.I., (34.5L), G3508, Gas, OHV, 32 Valve, ""Natural Gas""

G3508 108

V8 2107 CID

BORE - 170mm/6.69""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2368E-3N	2.368 O.D.,1.890T I.D.,0.4600 Depth,OEM # 122-5963; Natural Gas Late Style W/ Swirl Plate
		SB2388E-1N SB2388E-2N	2.388 O.D.,1.890T I.D.,0.4600 Depth,OEM # 206-4442 2.388 O.D.,1.890T I.D.,0.4600 Depth,OEM # 266-8718; Natural Gas Late Style W/ Swirl Plate; NOTE: Can Be Used As +0.020 Oversize Of SB2368E-3N
	Both	SB2368E-2N	2.368 O.D.,1.890 I.D.,0.4600 Depth,OEM # 7W-0028, 6I-1713 & 191-6760; NOTE: Exhaust Only On Some Castings; SB2388E-1N Can Be Used As +020 Oversized O.D.
Valve	Int	01804	2.205 Head Diameter,OEM# 468-8824
	Exh	02168S	2.205 Head Diameter,Stellite Face,OEM# 468-8825
	Both	01584S	2.205 Head Diameter,Stellite Face,OEM # 104-7184
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A-4429
Stem Seal	Both	122-1436	Positive Type,Viton Material,Top Hat Style,OEM # 228-9673
Guide	Int	140-3036	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5495, W/ Step For Stem Seal, W/ Oil Baffle, +5, +10 & +20 O/S Available
		140-3139	0.3730 I.D.,4.055 Length,0.6890 O.D.,OEM # 191-6766; W/ Step For Stem Seal, W/ Oil Baffle, +10, +20 O/S Available
		140-3143	0.3735 I.D.,4.060 Length,0.6890 O.D.,OEM # 9Y-1847
	Exh	140-3035	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5494, W/ Step For Stem Seal, W/ Counterbore, W/ Oil Baffle, +10 & +20 O/S Available
		140-3140	0.3730 I.D.,3.620 Length,0.6890 O.D.,OEM # 206-1541; +10, +20 O/S Available
		140-3144 140-3195	0.3735 I.D.,3.615 Length,0.6890 O.D.,OEM # 9Y-1846 0.3733 I.D.,3.625 Length,0.6888 O.D.,OEM # 255-0897; W/ Step For Stem Seal, W/ Oil Baffle
Spring	Both	160-1396	2.075 Length,Inner, OEM # 7N-1903
		160-1397	2.500 Length,Outer, OEM # 7N-1904
Rotator	Both	161-1069	OEM # 197-6999

2107 C.I., (34.5L), G3508B, Gas, OHV, 32 Valve, ""Natural Gas""

G3508B 109

V8 2107 CID

BORE - 170mm/6.69""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2388E-2N	2.388 O.D.,1.890T I.D.,0.4600 Depth,OEM # 266-8718; NOTE: W/ Swirl Plate
	Exh	SB2368E-2N	2.368 O.D.,1.890 I.D.,0.4600 Depth,OEM # 7W-0028, 6I-1713 & 191-6760; NOTE: SB2388E-1N Can Be Used As +020 Oversized O.D.
Valve	Int	01804	2.205 Head Diameter,OEM# 468-8824
	Exh	02168S	2.205 Head Diameter,Stellite Face,OEM# 468-8825
	Both	01584S	2.205 Head Diameter,Stellite Face,OEM # 104-7184
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A-4429
Guide	Int	140-3139	0.3730 I.D.,4.055 Length,0.6890 O.D.,OEM # 191-6766; W/ Oil Baffle,+10, +20 O/S Available
		140-3140	0.3730 I.D.,3.620 Length,0.6890 O.D.,OEM # 206-1541; +10, +20 O/S Available
	Exh	140-3195	0.3733 I.D.,3.625 Length,0.6888 O.D.,OEM # 255-0897; W/ Oil Baffle
Spring	Both	160-1396	2.075 Length,Inner, OEM # 7N-1903
		160-1397	2.500 Length,Outer, OEM # 7N-1904
Rotator	Both	161-1069	OEM # 197-6999

CATERPILLAR / HEAVY DUTY (Cont'd)

110 2382 C.I., (39.0L), D349, Diesel, OHV, 64 Valve, ""TURBO""

D349

V16 2382 CID

BORE - 137.16mm/5.40""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812E-1	1.812 O.D., 1 ¹ / ₁₆ T I.D., 0.3650 Depth, OEM Replacement for OEM # 9M3205
		SB1818E-1	1.818 O.D., 1 ¹ / ₁₆ T I.D., 0.3650 Depth
	Exh	SB1818E-2	1.818 O.D., 1 ¹ / ₁₆ T I.D., ³ / ₈ Depth, +20 O/S Available, W/ .010 Larger Depth
		SB1687E-1N	1.687 O.D., 1 ¹ / ₁₆ T I.D., 0.3650 Depth, OEM Replacement For OEM # 9S9699 & 1W5283
		SB1693E-1N	1.693 O.D., 1 ¹ / ₁₆ T I.D., 0.3650 Depth, +10, +20, +30 O/S Available, Exc. Natural Gas
		SB1693E-2	1.693 O.D., 1 ¹ / ₁₆ T I.D., ³ / ₈ Depth, +20 & +30 O/S Available, W/ .010 Larger Depth
Valve	Int	01146S	1.771 Head Diameter, Stellite Face, Spark Ignited, OEM # 1N4885, 1N4886
	Exh	01145S	1.646 Head Diameter, Stellite Face, OEM # 7E7830
Keeper	Both	121-1000	2 RD Bead Type, OEM # 2A4429
Guide	Both	140-7255	0.3750 I.D., 2.815 Length, 0.6892 O.D., High Strength Alloy, OEM # 6N2236, +2 O/S Available

111 2493 C.I., (41.0L), D386, Diesel, OHV, 24 Valve

D386

V12 2493 CID

BORE - 146.05mm/5.75""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2503E-2	2.503 O.D., 2 ¹ / ₁₆ T I.D., ¹ / ₂ Depth, OEM Replacement for OEM # 9M8745
		SB2506E-2	2.506 O.D., 2 ¹ / ₁₆ T I.D., ¹ / ₂ Depth, +20 O/S Available, +.003 Oversize Of OEM # 9M8745
	Exh	SB2503E-1	2.503 O.D., 2.000 I.D., ¹ / ₂ Depth, OEM Replacement for OEM # 8M9810
		SB2506E-1	2.506 O.D., 2.000 I.D., ¹ / ₂ Depth, +20 O/S Available, +.003 Oversize Of OEM # 8M9810
Valve	Int	00852S	2.343 Head Diameter, Stellite Face, Tapered Groove, W/ .4955 Stem Dia., OEM # 8H1993
		01459S	2.343 Head Diameter, Stellite Face, 2 Groove, W/ .3717 Stem Dia., OEM # 1W1818
	Exh	00574S	2.282 Head Diameter, Stellite Face, Tapered Groove, W/ .4955 Stem Dia., OEM # 8H1994
		01458S	2.282 Head Diameter, Stellite Face, 2 Groove, W/ .3717 Stem Dia., OEM # 1W1819
Keeper	Both	121-1000	2 RD Bead Type, W/ .3717 Stem Dia., OEM # 2A4429
		121-1030	No Bead Bead Type, .4955 Stem Dia., 3 Required per Valve, OEM # 3B1143
Guide	Int	140-6470	0.5005 I.D., 5.250 Length, 0.9383 O.D., Flanged, W/O Valve Rotator W/ .4955 Valve Stem Dia., OEM # 2S0893
	Exh	140-6469	0.5020 I.D., 5.250 Length, 0.9383 O.D., Flanged, W/O Valve Rotator W/ .4955 Valve Stem Dia., OEM # 1S6654
	Both	140-7338	0.5010 I.D., 5.219 Length, 0.9385 O.D., High Strength Alloy, Non-Flanged, Counterbored W/ .4955 Valve Stem Dia., OEM # 7N2051, +2 O/S Available
		140-7604	0.3725 I.D., 5.250 Length, 0.9390 O.D., High Strength Alloy, Non-Flanged, W/ .3725 Valve Stem Dia., OEM # 1W1816
		149-1000	0.7850 I.D., 0.500 Length, 1.2650 O.D., Spacer For Non-Flanged Guides. OEM # 3N1414
Spring	Both	160-1196	2.179 Length, Inner, Dual Spring, OEM # 9M5349
		160-1197	2.574 Length, Outer, Dual Spring, OEM # 9M5350
Rotator	Exh	161-1035	OEM # 7N7639

112 2493 C.I., (41.0L), D397, Diesel, OHV, 24 Valve, ""N/A & TURBO""

D397

V12 2493 CID

BORE - 146.05mm/5.75""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2503E-2	2.503 O.D., 2 ¹ / ₁₆ T I.D., ¹ / ₂ Depth, OEM Replacement for OEM # 9M8745

(Cont'd) **CATERPILLAR / HEAVY DUTY**

2493 C.I., (41.0L), D397, Diesel, OHV, 24 Valve, ""N/A & TURBO""
V12 2493 CID

D397 112
BORE - 146.05mm/5.75"" (cont.)

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2506E-2	2.506 O.D.,2 ¹ / ₁₆ T I.D., ¹ / ₂ Depth,+20 O/S Available,+0.003 Oversize Of OEM # 9M8745
	Exh	SB2503E-1 SB2506E-1	2.503 O.D.,2.000 I.D., ¹ / ₂ Depth,OEM Replacement for OEM # 8M9810 2.506 O.D.,2.000 I.D., ¹ / ₂ Depth,+20 O/S Available,+0.003 Oversize Of OEM # 8M9810
Valve	Int	00852S	2.343 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8H1993
		01459S	2.343 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., OEM # 1W1818
	Exh	00574S	2.282 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8H1994
		01458S	2.282 Head Diameter,Stellite Face, 2 Groove,W/.3717 Stem Dia., OEM # 1W1819
Keeper	Both	121-1000	2 RD Bead Type,W/ .3717 Stem Dia., OEM # 2A4429
		121-1030	No Bead Bead Type,.4955 Stem Dia., 3 Required per Valve, OEM # 3B1143
Guide	Int	140-6470	0.5005 I.D.,5.250 Length,0.9383 O.D.,Flanged,W/O Valve Rotator W/ .4955 Valve Stem Dia., OEM # 2S0893
	Exh	140-6469	0.5020 I.D.,5.250 Length,0.9383 O.D.,Flanged,W/O Valve Rotator W/ .4955 Valve Stem Dia., OEM # 1S6654
	Both	140-7338	0.5010 I.D.,5.219 Length,0.9385 O.D.,High Strength Alloy,Non-Flanged, Counterbored W/ .4955 Valve Stem Dia., OEM # 7N2051, +2 O/S Available
		140-7604	0.3725 I.D.,5.250 Length,0.9390 O.D.,High Strength Alloy,Non-Flanged, W/ .3725 Valve Stem Dia., OEM # 1W1816
		149-1000	0.7850 I.D.,0.500 Length,1.2650 O.D.,Spacer For Non-Flanged Guides. OEM # 3N1414
Spring	Both	160-1196	2.179 Length,Inner, Dual Spring, OEM # 9M5349
		160-1197	2.574 Length,Outer, Dual Spring, OEM # 9M5350
Rotator	Exh	161-1035	OEM # 7N7639

2946 C.I., (48.3L), D398, Diesel, OHV, 24 Valve, ""TURBO""
V12 2946 CID

D398 113
BORE - 158.75mm/6.25""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2590E-1	2.590 O.D.,2 ⁹ / ₃₂ T I.D., ⁵ / ₈ Depth,+10 & +20 O/S Available,OEM # 5S1757
	Exh	SB2435E-1	2.435 O.D.,2 ¹ / ₈ T I.D., ⁵ / ₈ Depth,+10 O/S Available,OEM # 8M4014, Exc. Natural Gas
		SB2435E-2N	2.435 O.D.,2 ¹ / ₈ I.D.,0.6250 Depth,OEM # 1S5738, Natural Gas
Valve	Int	00752S	2.505 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 7M7817
		01461S	2.505 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., Late Style OEM # 1W8606
	Exh	00751S	2.350 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8N3723
		01460S	2.350 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., Late Style OEM # 1W1822
Keeper	Both	121-1000	2 RD Bead Type,W/ .3717 Stem Dia., OEM # 2A4429
		121-1030	No Bead Bead Type,.4955 Stem Dia., 3 Required per Valve, OEM # 3B1143
Guide	Int	140-7074H	0.3745 I.D.,5.065 Length,0.8780 O.D.,W/ .3717 Stem Dia., OEM # 2N9298
		140-7083	0.5020 I.D.,5.045 Length,0.8768 O.D.,High Strength Alloy,Non-Flanged, W/ .4955 Stem Dia., OEM # 4N3664, Opt. Spacer 149-1000 Available
	Exh	140-7073	0.3745 I.D.,5.450 Length,0.8775 O.D.,OEM # 2N9299
		140-7073H	0.3745 I.D.,5.450 Length,0.8780 O.D.,Optional Hardened Version
	Both	140-7357	0.5020 I.D.,5.438 Length,0.8771 O.D.,High Strength Alloy,Non-Flanged, Counterbored W/ .4955 Stem Dia., OEM # 7S6366.

CATERPILLAR / HEAVY DUTY (Cont'd)

113 2946 C.I., (48.3L), D398, Diesel, OHV, 24 Valve, ""TURBO"" **D398**
 (cont.) V12 2946 CID BORE - 158.75mm/6.25""

PART		PART NO.	NOTES
Guide	Both	149-1000	0.7850 I.D.,0.500 Length,1.2650 O.D.,Spacer For Non-Flanged Guides. OEM # 3N1414
Spring	Both	160-1191 160-1196 160-1197	2.626 Length,Single Spring, OEM # 7S6323 2.179 Length,Inner, Dual Spring, OEM # 9M5349 2.574 Length,Outer, Dual Spring, OEM # 9M5350
Rotator	Exh	161-1035	OEM # 7N7639

114 2946 C.I., (48.3L), G398, Gas, OHV, 24 Valve, ""Natural Gas"" **G398**
V12 2946 CID BORE - 158.75mm/6.25""

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB2590E-1 SB2435E-2N	2.590 O.D.,.29 ³ / ₃₂ T I.D.,.5 ¹ / ₈ Depth,+10 & +20 O/S Available,OEM # 5S1757 2.435 O.D.,.21 ¹ / ₈ I.D.,0.6250 Depth,OEM # 1S5738, Natural Gas
Valve	Int Exh	00752S 01461S 00751S 01476S	2.505 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 7M7817 2.505 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., Late Style, OEM # 1W8606 2.350 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8N3723 2.350 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., OEM # 2W3211
Keeper	Both	121-1000 121-1030	2 RD Bead Type,W/ .3717 Stem Dia., OEM # 2A4429 No Bead Bead Type,W/ .4955 Stem Dia., 3 Required per Valve, OEM # 3B1143
Guide	Int Exh Both	140-7074H 140-7083 140-7073 140-7073H 140-7357 149-1000	0.3745 I.D.,5.065 Length,0.8780 O.D.,W/ .3717 Stem Dia., OEM # 2N9298 0.5020 I.D.,5.045 Length,0.8768 O.D.,High Strength Alloy,Non-Flanged, W/ .4955 Stem Dia., OEM # 4N3664, Opt. Spacer 149-1000 Available 0.3745 I.D.,5.450 Length,0.8775 O.D.,OEM # 2N9299 0.3745 I.D.,5.450 Length,0.8780 O.D.,Optional Hardened Version 0.5020 I.D.,5.438 Length,0.8771 O.D.,High Strength Alloy,Non-Flanged, Counterbored W/ .4955 Stem Dia., OEM # 7S6366. 0.7850 I.D.,0.500 Length,1.2650 O.D.,Spacer For Non-Flanged Guides. OEM # 3N1414
Spring	Both	160-1191 160-1196 160-1197	2.626 Length,Single Spring, OEM # 7S6323 2.179 Length,Inner, Dual Spring, OEM # 9M5349 2.574 Length,Outer, Dual Spring, OEM # 9M5350

115 3160 C.I., (51.8L), 3512, Diesel, OHV, 48 Valve, ""TURBO"" **3512**
V12 3160 CID BORE - 170mm/6.69""

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh Both	SB2368E-3N SB2387E-1 SB2388E-2N SB2367E-1 SB2368E-2N	2.368 O.D.,1.890T I.D.,0.4600 Depth,OEM # 122-5963, Natural Gas Late Style W/ Swirl Plate 2.387 O.D.,1.970T I.D.,0.3820 Depth,OEM # 7E5862 & 136-9630, Exc. Natural Gas 2.388 O.D.,1.890T I.D.,0.4600 Depth,OEM # 266-8718; Natural Gas Late Style W/ Swirl Plate; NOTE: Can Be Used As +0.020 Oversize Of SB2368E-3N 2.367 O.D.,2.045 I.D.,0.3820 Depth,OEM # 1W1801, Exc. Natural Gas 2.368 O.D.,1.890 I.D.,0.4600 Depth,OEM # 7W-0028, 6I-1713 & 191-6760; Natural Gas; NOTE: SB2388E-1N Can Be Used As +020 Oversized O.D.
Valve	Both	01498S 01584S	2.205 Head Diameter,Stellite Face,Diesel, OEM # 7E4609 & 7C6217 2.205 Head Diameter,Stellite Face,Spark Ignited OEM # 104-7184
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1302	Positive Type,Viton Material,Top Hat Style,OEM # 137-6856 & 197-7006; NOTE: Use W/ 140-8679 Valve Guide

(Cont'd) **CATERPILLAR / HEAVY DUTY**

3160 C.I., (51.8L), 3512, Diesel, OHV, 48 Valve, ""TURBO""
V12 3160 CID

3512 115
BORE - 170mm/6.69"" (cont.)

PART		PART NO.	NOTES
Guide	Int	140-3036	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5495, W/ Step For Stem Seal, W/ Oil Baffle, +5, +10 & +20 O/S Available
	Exh	140-3035	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5494, W/ Counterbore, W/ Step For Stem Seal, W/ Oil Baffle, +10 & +20 O/S Available
	Both	140-3144	0.3735 I.D.,3.615 Length,0.6890 O.D.,OEM # 9Y-1846
		140-3143	0.3735 I.D.,4.060 Length,0.6890 O.D.,OEM # 9Y-1847
		140-8679	0.3735 I.D.,4.060 Length,0.6885 O.D.,W/ Step For Stem Seal, Late Style, OEM # 7N-1819 or 133-9306, +5 O/S Available
Spring	Both	160-1396	2.075 Length,Inner, OEM # 7N1903
		160-1397	2.500 Length,Outer, OEM # 7N1904
Rotator	Both	161-1069	OEM # 133-3814 & 197-6999

3160 C.I., (51.8L), 3512B, Diesel, OHV, 48 Valve, ""Industrial/Marine TURBO"" 3512BMI **116**
V12 3160 CID BORE - 170mm/6.69""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2387E-2	2.387 O.D.,1.890 I.D.,0.3610 Depth,OEM # 130-2607
	Exh	SB2366E-2N	2.366 O.D.,1.977 I.D.,0.3920 Depth,OEM # 130-2608
Valve	Int	01804	2.205 Head Diameter,OEM # 121-2028, 210-2542, 468-8824, 20 Degree Seat
	Exh	01805S 02168S	2.205 Head Diameter,Stellite Face,OEM # 121-9835, W/ .372 Stem 2.205 Head Diameter,Stellite Face,OEM # 194-4897, 443-2712, 468-8825, W/.495 Stem
Keeper	Exh	121-1095	1 SQ Bead Type,OEM # 197-7055, W/ .495 Stem Dia.
	Both	121-1000	2 RD Bead Type,OEM # 2A4429, W/ 3/8 Stem Dia.
Stem Seal	Int	122-1302	Positive Type,Viton Material,Top Hat Style,OEM # 137-6856 & 197-7006; NOTE: Use W/ 140-8679 Valve Guide
		122-1490	Positive Type,Viton Material,Top Hat Style,OEM # 316-5980; NOTE: Updated Version For Head Group 201-4257 & 317-2440; Must Be Used With 160-1676 (Inner) & 160-1677 (Outer) Valve Springs
	Exh	122-1414	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 234-8776, Oil Shield, Use With .495 Stem Dia
Guide	Exh	140-3042	0.4977 I.D.,4.055 Length,0.6886 O.D.,OEM # 197-6995, W/ .495 Stem Dia., +5 O/S Available
	Both	140-8679	0.3735 I.D.,4.060 Length,0.6885 O.D.,OEM # 133-9306, W/ 3/8 Stem Dia., +5 O/S Available
Spring	Both	160-1460	2.425 Length,OEM # 194-4902, Inner
		160-1461	3.030 Length,OEM #'s 194-4901 & 281-6157, Outer
		160-1676	2.840 Length,OEM # 316-5977, Inner, W/ Yellow Stripe; NOTE: Updated Version For 201-4257 & 317-2440 Head Groups; Must Replace In Sets and Must Be Used With 160-1677 Outer
		160-1677	3.017 Length,OEM # 316-5976, Outer, W/ Yellow Stripe; NOTE: Updated Version For 201-4257 & 317-2440 Head Groups; Must Replace In Sets and Must Be Used With 160-1676 Inner
Rotator	Int	161-1067	OEM # 197-7062, W/ 3/8 Stem Dia.
		161-1077	OEM # 316-5978; NOTE: Updated Version For Head Group 201-4257 & 317-2440; Must Be Used With 160-1676 (Inner) & 160-1677 (Outer) Valve Springs
	Exh	161-1068	OEM # 197-7063, W/ .495 Stem Dia.
		161-1078	OEM # 316-5979; NOTE: Updated Version For Head Group 201-4257 & 317-2440; Must Be Used With 160-1676 (Inner) & 160-1677 (Outer) Valve Springs

CATERPILLAR / HEAVY DUTY (Cont'd)

117 3160 C.I., (51.8L), G3512, Gas, OHV, 48 Valve, ""Natural Gas""

G3512

V12 3160 CID

BORE - 170mm/6.69""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2368E-3N	2.368 O.D., 1.890T I.D., 0.4600 Depth, OEM # 122-5963, Natural Gas Late Style W/ Swirl Plate
		SB2388E-1N	2.388 O.D., 1.890T I.D., 0.4600 Depth, OEM # 206-4442
		SB2388E-2N	2.388 O.D., 1.890T I.D., 0.4600 Depth, OEM # 266-8718; Natural Gas Late Style W/ Swirl Plate; NOTE: Can Be Used As +0.020 Oversize Of SB2368E-3N
	Both	SB2368E-2N	2.368 O.D., 1.890 I.D., 0.4600 Depth, OEM # 7W-0028, 6I-1713 & 191-6760; NOTE: Exhaust Only On Some Castings
Valve	Int	01804	2.205 Head Diameter, OEM# 468-8824
	Exh	02168S	2.205 Head Diameter, Stellite Face, OEM# 468-8825
	Both	01584S	2.205 Head Diameter, Stellite Face, OEM # 104-7184
Keeper	Both	121-1000	2 RD Bead Type, OEM # 2A-4429
Stem Seal	Both	122-1436	Positive Type, Viton Material, Top Hat Style, OEM # 228-9673
Guide	Int	140-3036	0.3715 I.D., 4.050 Length, 0.6883 O.D., OEM # 184-5495, W/ Step For Stem Seal, W/ Oil Baffle, +5, +10 & +20 O/S Available
		140-3139	0.3730 I.D., 4.055 Length, 0.6890 O.D., OEM # 191-6766; W/ Step For Stem Seal, W/ Oil Baffle, +10, +20 O/S Available
		140-3143	0.3735 I.D., 4.060 Length, 0.6890 O.D., OEM # 9Y-1847
	Exh	140-3035	0.3715 I.D., 4.050 Length, 0.6883 O.D., OEM # 184-5494, W/ Counterbore, W/ Oil Baffle, +10 & +20 O/S Available
		140-3140	0.3730 I.D., 3.620 Length, 0.6890 O.D., OEM # 206-1541; +10, +20 O/S Available
		140-3144	0.3735 I.D., 3.615 Length, 0.6890 O.D., OEM # 9Y-1846
		140-3195	0.3733 I.D., 3.625 Length, 0.6888 O.D., OEM # 255-0897; W/ Step For Stem Seal, W/ Oil Baffle
Spring	Both	160-1396	2.075 Length, Inner, OEM # 7N-1903
		160-1397	2.500 Length, Outer, OEM # 7N-1904
Rotator	Both	161-1069	OEM # 197-6999

118 3160 C.I., (51.8L), G3512B, Gas, OHV, 48 Valve, ""Natural Gas""

G3512B

V12 3160 CID

BORE - 170mm/6.69""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2388E-2N	2.388 O.D., 1.890T I.D., 0.4600 Depth, OEM # 266-8718; NOTE: W/ Swirl Plate
	Exh	SB2368E-2N	2.368 O.D., 1.890 I.D., 0.4600 Depth, OEM # 7W-0028, 6I-1713 & 191-6760; NOTE: SB2388E-1N Can Be Used As +020 Oversized O.D.
Valve	Int	01804	2.205 Head Diameter, OEM# 468-8824
	Exh	02168S	2.205 Head Diameter, Stellite Face, OEM# 468-8825
	Both	01584S	2.205 Head Diameter, Stellite Face, OEM # 104-7184
Keeper	Both	121-1000	2 RD Bead Type, OEM # 2A-4429
Guide	Int	140-3139	0.3730 I.D., 4.055 Length, 0.6890 O.D., OEM # 191-6766; W/ Oil Baffle, +10, +20 O/S Available
	Exh	140-3140	0.3730 I.D., 3.620 Length, 0.6890 O.D., OEM # 206-1541; +10, +20 O/S Available
		140-3195	0.3733 I.D., 3.625 Length, 0.6888 O.D., OEM # 255-0897; W/ Oil Baffle
Spring	Both	160-1396	2.075 Length, Inner, OEM # 7N-1903
		160-1397	2.500 Length, Outer, OEM # 7N-1904
Rotator	Both	161-1069	OEM # 197-6999

119 3928 C.I., (64.4L), D399, Diesel, OHV, 32 Valve, ""TURBO""

D399

V16 3928 CID

BORE - 158.75mm/6.25""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2590E-1	2.590 O.D., $2\frac{9}{32}$ T I.D., $\frac{5}{8}$ Depth, +10 & +20 O/S Available, OEM # 5S1757

(Cont'd) **CATERPILLAR / HEAVY DUTY**

3928 C.I., (64.4L), D399, Diesel, OHV, 32 Valve, ""TURBO""
V16 3928 CID

D399 119
BORE - 158.75mm/6.25"" (cont.)

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB2435E-1	2.435 O.D.,.21/8" I.D.,.5/8" Depth,+10 O/S Available,OEM # 8M4014, Exc. Natural Gas
		SB2435E-2N	2.435 O.D.,.21/8" I.D.,.0.6250 Depth,OEM # 1S5738, Natural Gas
Valve	Int	00752S	2.505 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 7M7817
		01461S	2.505 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., Late Style OEM # 1W8606
	Exh	00751S	2.350 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8N3723
		01460S	2.350 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., Late Style OEM # 1W1822
Keeper	Both	121-1000	2 RD Bead Type,W/ .3717 Stem Dia., OEM # 2A4429
		121-1030	No Bead Bead Type,.4955 Stem Dia., 3 Required per Valve, OEM # 3B1143
Guide	Int	140-7074H	0.3745 I.D.,.5.065 Length,0.8780 O.D.,W/ .3717 Stem Dia., OEM # 2N9298
		140-7083	0.5020 I.D.,.5.045 Length,0.8768 O.D.,High Strength Alloy,Non-Flanged, W/ .4955 Stem Dia., OEM # 4N3664, Opt. Spacer 149-1000 Available
	Exh	140-7073	0.3745 I.D.,.5.450 Length,0.8775 O.D.,OEM # 2N9299
		140-7073H	0.3745 I.D.,.5.450 Length,0.8780 O.D.,Optional Hardened Version
	Both	140-7550	0.3725 I.D.,.5.450 Length,0.8780 O.D.,W/ .002 Smaller I.D. & .3725 Stem Dia.
		140-7357	0.5020 I.D.,.5.438 Length,0.8771 O.D.,High Strength Alloy,Non-Flanged, Counterbored W/ .4955 Stem Dia., OEM # 7S6366.
Spring	Both	160-1191	2.626 Length,Single Spring, OEM # 7S6323
		160-1196	2.179 Length,Inner, Dual Spring, OEM # 9M5349
		160-1197	2.574 Length,Outer, Dual Spring, OEM # 9M5350
Rotator	Exh	161-1035	OEM # 7N7639

3928 C.I., (64.4L), G399, Gas, OHV, 32 Valve, ""Natural Gas""
V16 3928 CID

G399 120
BORE - 158.75mm/6.25""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2590E-1	2.590 O.D.,.29/32" I.D.,.5/8" Depth,+10 & +20 O/S Available,OEM # 5S1757
	Exh	SB2435E-2N	2.435 O.D.,.21/8" I.D.,.0.6250 Depth,OEM # 1S5738, Natural Gas
Valve	Int	00752S	2.505 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 7M7817
		01461S	2.505 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., Late Style OEM # 1W8606
	Exh	00751S	2.350 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8N3723
		01476S	2.350 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., OEM # 2W3211
Keeper	Both	121-1000	2 RD Bead Type,W/ .3717 Stem Dia., OEM # 2A4429
		121-1030	No Bead Bead Type,.4955 Stem Dia., 3 Required per Valve, OEM # 3B1143
Guide	Int	140-7074H	0.3745 I.D.,.5.065 Length,0.8780 O.D.,OEM # 2N9298
		140-7083	0.5020 I.D.,.5.045 Length,0.8768 O.D.,High Strength Alloy,Non-Flanged, W/ .4955 Stem Dia., OEM # 4N3664, Opt. Spacer 149-1000 Available
	Exh	140-7073	0.3745 I.D.,.5.450 Length,0.8775 O.D.,OEM # 2N9299
		140-7073H	0.3745 I.D.,.5.450 Length,0.8780 O.D.,Optional Hardened Version
	Both	140-7357	0.5020 I.D.,.5.438 Length,0.8771 O.D.,High Strength Alloy,Non-Flanged, Counterbored W/ .4955 Stem Dia., OEM # 7S6366.

CATERPILLAR / HEAVY DUTY (Cont'd)

120 3928 C.I., (64.4L), G399, Gas, OHV, 32 Valve, ""Natural Gas"" G399
 (cont.) V16 3928 CID BORE - 158.75mm/6.25""

PART		PART NO.	NOTES
Guide	Both	149-1000	0.7850 I.D.,0.500 Length,1.2650 O.D.,Spacer For Non-Flanged Guides. OEM # 3N1414
Spring	Both	160-1191 160-1196 160-1197	2.626 Length,Single Spring, OEM # 7S6323 2.179 Length,Inner, Dual Spring, OEM # 9M5349 2.574 Length,Outer, Dual Spring, OEM # 9M5350
Rotator	Exh	161-1035	OEM # 7N7639

121 4210 C.I., (69.0L), 3516, Diesel, OHV, 64 Valve, ""TURBO"" 3516
V16 4210 CID BORE - 170mm/6.69""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2368E-3N	2.368 O.D.,1.890T I.D.,0.4600 Depth,OEM # 122-5963, Natural Gas Late Style W/ Swirl Plate
		SB2387E-1	2.387 O.D.,1.970T I.D.,0.3820 Depth,OEM # 7E5862 & 136-9630, Exc. Natural Gas
		SB2388E-2N	2.388 O.D.,1.890T I.D.,0.4600 Depth,OEM # 266-8718; Natural Gas Late Style W/ Swirl Plate; NOTE: Can Be Used As +0.020 Oversize Of SB2368E-3N
	Exh	SB2367E-1	2.367 O.D.,2.045 I.D.,0.3820 Depth,OEM # 1W1801, Exc. Natural Gas
	Both	SB2368E-2N	2.368 O.D.,1.890 I.D.,0.4600 Depth,OEM # 7W-0028, 6I-1713 & 191-6760; Natural Gas; NOTE: SB2388E-1N Can Be Used As +020 Oversized O.D.
Valve	Both	01498S 01584S	2.205 Head Diameter,Stellite Face,Diesel, OEM # 7E4609 & 7C6217 2.205 Head Diameter,Stellite Face,Spark Ignited OEM # 104-7184
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1302	Positive Type,Viton Material,Top Hat Style,OEM # 137-6856 & 197-7006; NOTE: Use W/ 140-8679 Valve Guide
Guide	Int	140-3036	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5495, W/ Step For Stem Seal, W/ Oil Baffle, +5, +10 & +20 O/S Available
	Exh	140-3035	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5494, W/ Counterbore, W/ Step For Stem Seal, W/ Oil Baffle, +10 & +20 O/S Available
		140-3144	0.3735 I.D.,3.615 Length,0.6890 O.D.,OEM # 9Y-1846
	Both	140-3143 140-8679	0.3735 I.D.,4.060 Length,0.6890 O.D.,OEM # 9Y-1847 0.3735 I.D.,4.060 Length,0.6885 O.D.,W/ Step For Stem Seal, Late Style, OEM # 7N-1819 or 133-9306, +5 O/S Available
Spring	Both	160-1396 160-1397	2.075 Length,Inner, OEM # 7N1903 2.500 Length,Outer, OEM # 7N1904
Rotator	Both	161-1069	OEM # 133-3814 & 197-6999

122 4210 C.I., (69.0L), 3516B, Diesel, OHV, 64 Valve, ""Industrial/Marine TURBO"" 3516BIM
V16 4210 CID BORE - 170mm/6.69""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2387E-2	2.387 O.D.,1.890 I.D.,0.3610 Depth,OEM # 130-2607
	Exh	SB2366E-2N	2.366 O.D.,1.977 I.D.,0.3920 Depth,OEM # 130-2608
Valve	Int	01804	2.205 Head Diameter,OEM # 121-2028, 210-2542, 468-8824, 20 Degree Seat
		01804	2.205 Head Diameter,OEM# 468-8824
	Exh	01805S 02168S 02168S	2.205 Head Diameter,Stellite Face,OEM # 121-9835, W/.372 Stem 2.205 Head Diameter,Stellite Face,OEM # 194-4897, 443-2712, 468-8825, W/.495 Stem 2.205 Head Diameter,Stellite Face,OEM# 468-8825
Keeper	Exh	121-1095	1 SQ Bead Type,OEM # 197-7055, W/.495 Stem Dia.
	Both	121-1000	2 RD Bead Type,OEM # 2A4429, W/ 3/8 Stem Dia.
Stem Seal	Int	122-1302	Positive Type,Viton Material,Top Hat Style,OEM # 137-6856 & 197-7006; NOTE: Use W/ 140-8679 Valve Guide

(Cont'd) **CATERPILLAR / HEAVY DUTY**

4210 C.I., (69.0L), 3516B, Diesel, OHV, 64 Valve, ""Industrial/Marine TURBO"" 3516BIM 122
V16 4210 CID **BORE - 170mm/6.69"" (cont.)**

PART		PART NO.	NOTES
Stem Seal	Int	122-1490	Positive Type, Viton Material, Top Hat Style, OEM # 316-5980; NOTE: Updated Version For Head Group 201-4257 & 317-2440; Must Be Used With 160-1676 (Inner) & 160-1677 (Outer) Valve Springs
	Exh	122-1414	Umbrella Type, Nylon Material, Oil Shield Style, OEM # 234-8776, Oil Shield, Use W/.495 Stem Dia
Guide	Exh	140-3042	0.4977 I.D., 4.055 Length, 0.6886 O.D., OEM # 197-6995, W/.495 Stem Dia., +5 O/S Available
	Both	140-8679	0.3735 I.D., 4.060 Length, 0.6885 O.D., OEM # 133-9306, W/ 3/8 Stem Dia., +5 O/S Available
Spring	Both	160-1460	2.425 Length, OEM # 194-4902, Inner
		160-1461	3.030 Length, OEM #'s 194-4901 & 281-6157, Outer
		160-1676	2.840 Length, OEM # 316-5977, Inner, W/ Yellow Stripe; NOTE: Updated Version For 201-4257 & 317-2440 Head Groups; Must Replace In Sets and Must Be Used With 160-1677 Outer
		160-1677	3.017 Length, OEM # 316-5976, Outer, W/ Yellow Stripe; NOTE: Updated Version For 201-4257 & 317-2440 Head Groups; Must Replace In Sets and Must Be Used With 160-1676 Inner
Rotator	Int	161-1067	OEM # 197-7062, W/ 3/8 Stem Dia.
		161-1077	OEM # 316-5978; NOTE: Updated Version For Head Group 201-4257 & 317-2440; Must Be Used With 160-1676 (Inner) & 160-1677 (Outer) Valve Springs
	Exh	161-1068	OEM # 197-7063, W/ .495 Stem Dia.
		161-1078	OEM # 316-5979; NOTE: Updated Version For Head Group 201-4257 & 317-2440; Must Be Used With 160-1676 (Inner) & 160-1677 (Outer) Valve Springs

4210 C.I., (69.0L), G3516, Gas, OHV, 64 Valve, ""Natural Gas"" G3516 123
V16 4210 CID **BORE - 170mm/6.69""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2368E-3N	2.368 O.D., 1.890T I.D., 0.4600 Depth, OEM # 122-5963, Natural Gas Late Style W/ Swirl Plate
		SB2388E-1N	2.388 O.D., 1.890T I.D., 0.4600 Depth, OEM # 206-4442
		SB2388E-2N	2.388 O.D., 1.890T I.D., 0.4600 Depth, OEM # 266-8718; Natural Gas Late Style W/ Swirl Plate; NOTE: Can Be Used As +0.020 Oversize Of SB2368E-3N
	Both	SB2368E-2N	2.368 O.D., 1.890 I.D., 0.4600 Depth, OEM # 7W-0028, 6I-1713 & 191-6760; NOTE: Exhaust Only On Some Castings; SB2388E-1N Can Be Used As +0.020 Oversized O.D.
Valve	Both	01584S	2.205 Head Diameter, Stellite Face, OEM # 104-7184
Keeper	Both	121-1000	2 RD Bead Type, OEM # 2A-4429
Stem Seal	Both	122-1436	Positive Type, Viton Material, Top Hat Style, OEM # 228-9673
Guide	Int	140-3036	0.3715 I.D., 4.050 Length, 0.6883 O.D., OEM # 184-5495, W/ Step For Stem Seal, W/ Oil Baffle, +5, +10 & +20 O/S Available
		140-3139	0.3730 I.D., 4.055 Length, 0.6890 O.D., OEM # 191-6766; W/ Step For Stem Seal, W/ Oil Baffle, +10, +20 O/S Available
		140-3143	0.3735 I.D., 4.060 Length, 0.6890 O.D., OEM # 9Y-1847
	Exh	140-3035	0.3715 I.D., 4.050 Length, 0.6883 O.D., OEM # 184-5494, W/ Step For Stem Seal, W/ Counterbore, W/ Oil Baffle, +10 & +20 O/S Available
		140-3140	0.3730 I.D., 3.620 Length, 0.6890 O.D., OEM # 206-1541; +10, +20 O/S Available
		140-3144	0.3735 I.D., 3.615 Length, 0.6890 O.D., OEM # 9Y-1846
		140-3195	0.3733 I.D., 3.625 Length, 0.6888 O.D., OEM # 255-0897; W/ Step For Stem Seal, W/ Oil Baffle
Spring	Both	160-1396	2.075 Length, Inner, OEM # 7N-1903
		160-1397	2.500 Length, Outer, OEM # 7N-1904

CATERPILLAR / HEAVY DUTY (Cont'd)

123 4210 C.I., (69.0L), G3516, Gas, OHV, 64 Valve, ""Natural Gas"" G3516
 (cont.) V16 4210 CID BORE - 170mm/6.69""

PART	PART NO.		NOTES
Rotator	Both	161-1069	OEM # 197-6999

124 4210 C.I., (69.0L), G3516B, Gas, OHV, 64 Valve, ""Natural Gas"" G3516B
 V16 4210 CID BORE - 170mm/6.69""

PART	PART NO.		NOTES
Valve Seat Insert	Int	SB2388E-2N	2.388 O.D.,1.890T I.D.,0.4600 Depth,OEM # 266-8718; NOTE: W/ Swirl Plate
	Exh	SB2368E-2N	2.368 O.D.,1.890 I.D.,0.4600 Depth,OEM # 7W-0028, 6I-1713 & 191-6760; NOTE: SB2388E-1N Can Be Used As +020 Oversized O.D.
Valve	Both	01584S	2.205 Head Diameter,Stellite Face,OEM # 104-7184
Keeper	Int	121-1000	2 RD Bead Type,OEM # 2A-4429
Guide	Int	140-3139	0.3730 I.D.,4.055 Length,0.6890 O.D.,OEM # 191-6766; W/ Oil Baffle,+10, +20 O/S Available
	Exh	140-3140	0.3730 I.D.,3.620 Length,0.6890 O.D.,OEM # 206-1541; +10, +20 O/S Available
		140-3195	0.3733 I.D.,3.625 Length,0.6888 O.D.,OEM # 255-0897; W/ Oil Baffle
Spring	Both	160-1396	2.075 Length,Inner, OEM # 7N-1903
		160-1397	2.500 Length,Outer, OEM # 7N-1904
Rotator	Both	161-1069	OEM # 197-6999

125 4210 C.I., (69.0L), G3516J, Gas, OHV, 64 Valve, ""Natural Gas"" G3516J
 V16 4210 CID BORE - 170mm/6.69""

PART	PART NO.		NOTES
Valve	Int	01804	2.205 Head Diameter,OEM# 468-8824
	Exh	02168S	2.205 Head Diameter,Stellite Face,OEM# 468-8825

126 5266 C.I., (86.3L), G3520, Gas, OHV, 80 Valve, ""Natural Gas"" G3520
 V20 5266 CID BORE - 170mm/6.69""

PART	PART NO.		NOTES
Valve	Both	01584S	2.205 Head Diameter,Stellite Face,OEM # 104-7184; NOTE: S/N GDB1-99999, CWW1-Up
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A-4429
Stem Seal	Both	122-1436	Positive Type,Viton Material,Top Hat Style,OEM # 228-9673
Guide	Int	140-3036	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5495, W/ Step For Stem Seal, W/ Oil Baffle, +5, +10 & +20 O/S Available
		140-3139	0.3730 I.D.,4.055 Length,0.6890 O.D.,OEM # 191-6766; W/ Step For Stem Seal, W/ Oil Baffle, +10, +20 O/S Available
	Exh	140-3035	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5494, W/ Step For Stem Seal, W/ Counterbore, W/ Oil Baffle, +10 & +20 O/S Available
		140-3140	0.3730 I.D.,3.620 Length,0.6890 O.D.,OEM # 206-1541; +10, +20 O/S Available
		140-3195	0.3733 I.D.,3.625 Length,0.6888 O.D.,OEM # 255-0897; W/ Step For Stem Seal, W/ Oil Baffle
Spring	Both	160-1396	2.075 Length,OEM # 7N1903, Inner
		160-1397	2.500 Length,OEM # 7N1904, Outer
Rotator	Both	161-1069	OEM # 133-3814, 197-6999

127 5266 C.I., (86.3L), G3520B, Gas, OHV, 80 Valve, ""Natural Gas"" G3520B
 V20 5266 CID BORE - 170mm/6.69""

PART	PART NO.		NOTES
Valve Seat Insert	Int	SB2388E-2N	2.388 O.D.,1.890T I.D.,0.4600 Depth,OEM # 266-8718
	Exh	SB2368E-2N	2.368 O.D.,1.890 I.D.,0.4600 Depth,OEM # 191-6760

(Cont'd) **CATERPILLAR / HEAVY DUTY**

5266 C.I., (86.3L), G3520B, Gas, OHV, 80 Valve, ""Natural Gas""
V20 5266 CID

G3520B 127
BORE - 170mm/6.69"" (cont.)

PART		PART NO.	NOTES
Valve	Int	01804	2.205 Head Diameter,OEM# 468-8824
	Exh	02168S	2.205 Head Diameter,Stellite Face,OEM#468-8825
	Both	01584S	2.205 Head Diameter,Stellite Face,OEM # 104-7184
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A-4429
Guide	Int	140-3139	0.3730 I.D.,4.055 Length,0.6890 O.D.,OEM # 191-6766
	Exh	140-3140	0.3730 I.D.,3.620 Length,0.6890 O.D.,OEM # 206-1541
		140-3195	0.3733 I.D.,3.625 Length,0.6888 O.D.,OEM # 255-0897; W/ Oil Baffle
Spring	Both	160-1396	2.075 Length,Inner, OEM # 7N-1903
		160-1397	2.500 Length,Outer, OEM # 7N-1904
Rotator	Both	161-1069	OEM # 197-6999

5266 C.I., (86.3L), G3520C, Gas, OHV, 80 Valve, ""Natural Gas""
V20 5266 CID

G3520C 128
BORE - 170mm/6.69""

PART		PART NO.	NOTES
Valve	Both	01584S	2.205 Head Diameter,Stellite Face,OEM # 104-7184
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A-4429
Stem Seal	Int	122-1436	Positive Type,Viton Material,Top Hat Style,OEM # 228-9673; NOTE: Landfill Gas, Type 1
Guide	Int	140-3036	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5495, W/ Step For Stem Seal, W/ Oil Baffle, +5, +10 & +20 O/S Available
	Exh	140-3035	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5494, W/ Counterbore, W/ Oil Baffle, +10 & +20 O/S Available
Spring	Both	160-1460	2.425 Length,Inner, OEM # 194-4902; NOTE: Type 1
		160-1461	3.030 Length,Outer, OEM # 194-4901, 218-2935; NOTE: Type 1
		160-1676	2.840 Length,Inner, OEM # 316-5977; NOTE: Type 2
		160-1677	3.017 Length,Outer, OEM # 316-5976; NOTE: Type 2
Rotator	Both	161-1077	OEM # 316-5977; NOTE: Type 2

5266 C.I., (86.3L), G3520E, Gas, OHV, 80 Valve, ""Natural Gas""
V20 5266 CID

G3520E 129
BORE - 170mm/6.69""

PART		PART NO.	NOTES
Valve	Both	01584S	2.205 Head Diameter,Stellite Face,OEM # 104-7184
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A-4429
Stem Seal	Int	122-1436	Positive Type,Viton Material,Top Hat Style,OEM # 228-9673; NOTE: Landfill Gas, Type 1
Guide	Int	140-3036	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5495, W/ Step For Stem Seal, W/ Oil Baffle, +5, +10 & +20 O/S Available
	Exh	140-3035	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5494, W/ Counterbore, W/ Oil Baffle, +10 & +20 O/S Available
Spring	Both	160-1460	2.425 Length,Inner, OEM # 194-4902; NOTE: Type 1
		160-1461	3.030 Length,Outer, OEM # 194-4901, 218-2935; NOTE: Type 1
		160-1676	2.840 Length,Inner, OEM # 316-5977; NOTE: Type 2
		160-1677	3.017 Length,Outer, OEM # 316-5976; NOTE: Type 2
Rotator	Int	161-1077	OEM # 316-5977; NOTE: Type 2

7143 C.I., (117.0L), 3524B, Diesel, OHV, 96 Valve, ""TURBO""
V24 7143 CID

3524B 130
BORE - 170mm/6.69""

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB2366E-2N	2.366 O.D.,1.977 I.D.,0.3920 Depth,OEM # 130-2608
Valve	Int	01804	2.205 Head Diameter,OEM # 121-2028, 210-2542, 468-8824, 20 Degree Seat

CATERPILLAR / HEAVY DUTY (Cont'd)

130 7143 C.I., (117.0L), 3524B, Diesel, OHV, 96 Valve, ""TURBO""
(cont.) V24 7143 CID

3524B
BORE - 170mm/6.69""

PART		PART NO.	NOTES
Valve	Exh	01805S 02168S	2.205 Head Diameter,Stellite Face,OEM # 121-9835, W/.372 Stem 2.205 Head Diameter,Stellite Face,OEM # 194-4897, 443-2712, 468-8825, W/.495 Stem
Keeper	Exh Both	121-1095 121-1000	1 SQ Bead Type,OEM # 197-7055, W/.495 Stem Dia. 2 RD Bead Type,OEM # 2A4429, W/ 3/8 Stem Dia.
Stem Seal	Int	122-1302	Positive Type,Viton Material,Top Hat Style,OEM # 137-6856 & 197-7006; NOTE: Use W/ 140-8679 Valve Guide
Guide	Exh Both	140-3042 140-8679	0.4977 I.D.,4.055 Length,0.6886 O.D.,OEM # 197-6995, W/.495 Stem Dia., +5 O/S Available 0.3735 I.D.,4.060 Length,0.6885 O.D.,OEM # 133-9306, W/ 3/8 Stem Dia., +5 O/S Available
Spring	Both	160-1460 160-1461	2.425 Length,OEM # 194-4902, Inner 3.030 Length,OEM #'s 194-4901 & 281-6157, Outer
Rotator	Int Exh	161-1067 161-1068	OEM # 197-7062, W/ 3/8 Stem Dia., NOTE: Use W/ Spring #'s 160-1460 Inner & 160-1461 Outer OEM # 197-7063, W/ .495 Stem Dia., NOTE: Use W/ Spring #'s 160-1460 Inner & 160-1461 Outer

CHRYSLER / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
83 C.I., (1.4L), SOHC, GAS, FI, 16 Valve, Vin H, EAF, ""Fiat FIRE MultiAir TURBO"" (2013-16)	DartTurbo	1
83 C.I., (1.4L), SOHC, GAS, FI, 16 Valve, Vin H, EAM, ""Fiat FIRE MultiAir TURBO"" (2015-18)	Renegade	2
1397cc, (1.4L), OHV, GAS, FI, 8 Valve, Vin D, E, ""C35 Renault"" (1984-87)	Alliance, Encore	3
1410cc, (1.4L), SOHC, GAS, CARB, 8 Valve, Vin 2, A, J, ""G12B Mitsubishi"" (1979-84)	Champ, Colt	4
1468cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin K, ""G15B Mitsubishi"" (1985-88)	Colt	5
1468cc, (1.5L), SOHC, GAS, FI, 8 Valve, Vin P, X, ""4G15 Mitsubishi"" (1988-90)	Colt	6
1468cc, (1.5L), SOHC, GAS, FI, 12 Valve, Vin A, K, ""4G15 Mitsubishi"" (1991-96)	Colt, Summit, Vista	7
1597cc, (1.6L), SOHC, GAS, CARB, 8 Valve, Vin K, ""4G32 Mitsubishi"" (1971-78)	Arrow, Challenger, Colt, Sapporo	8
1597cc, (1.6L), SOHC, GAS, CARB, 8 Valve, Vin 3, B, K, ""G32B Mitsubishi"" (1977-84)	Arrow, Challenger, Champ, Colt, Horizon, Sapporo, Turismo	9
1597cc, (1.6L), SOHC, GAS, FI, 8 Valve, Vin F, ""G32B Mitsubishi TURBO"" (1984-88)	Colt	10
1597cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin F, Z, ""4G61 Mitsubishi TURBO"" (1989-90)	Colt Turbo	11
1597cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin Y, ""4G61 Mitsubishi"" (1989-90)	Colt, Summit	12
1721cc, (1.7L), SOHC, GAS, CARB, 8 Valve, Vin A, B, ""Volkswagen"" (1978-83)	Charger, Horizon, Omni, TC3, Turismo	13
1755cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin B, T, ""4G37 Mitsubishi"" (1989-94)	Colt, Laser, Talon	14

(Cont'd) CHRYSLER / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
1834cc, (1.8L), SOHC, GAS, FI, 16 Valve, Vin C, D, ""4G93 Mitsubishi"" (1992-96)	Colt, Summit	15
110 C.I., (1.8L), DOHC, GAS, FI, 16 Valve, Vin C, ""GEMA"" (2007-09)	Caliber	16
1983cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin G, K, ""Audi"" (1977-79)	Concord, Gremlin, Spirit	17
1997cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin 5, U, ""G52B Mitsubishi"" (1974-82)	Arrow, Arrow Pickup, Colt, D50	18
122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin Y, ""420A"" (1995-99)	Avenger, Neon, Sebring, Talon	19
122 C.I., (2.0L), SOHC, GAS, FI, 16 Valve, Vin C, F, ECB (1995-05)	Breeze, Neon, Stratus, SX 2.0	20
122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin 0, A, B, ECN, ""GEMA"" (2007-17)	Caliber, Compass, Patriot	21
122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin A, ECK, ""Tigershark"" (2013-16)	Dart	22
122 C.I., (2.0L), DOHC, ELECTRIC/GAS, GAS, FI, 16 Valve, Vin N, EC3, ""TURBO"" (2018-21)	Cherokee, Wrangler	23
1997cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin 5, D, ""G63B Mitsubishi"" (1983-88)	Colt, Power Ram 50, Ram 50	24
1997cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin V, ""G63B Mitsubishi"" (1989-91)	2000 GTX, Colt	25
1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin E, R, ""4G63 Mitsubishi"" (1990-94)	Laser, Talon	26
1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F, U, ""4G63 Mitsubishi TURBO"" (1990-98)	Laser, Talon	27
134 C.I., (2.2L), OHV, GAS, CARB, 8 Valve, ""AMC L-HEAD"" (1942-65)	Dispatcher, DJ3, FC150, FC170, MA, MB, Universal, Universal Truck, Willys	28
135 C.I., (2.2L), SOHC, GAS, CARB, 8 Valve, Vin 8, B, C, F (1981-87)	400, 600, Aries, Caravelle, Charger, E Class, Expo, Horizon, LeBaron, New Yorker, Omni, Reliant, Scamp, TC3, Town & Country, Turismo, Turismo 2.2	29
135 C.I., (2.2L), SOHC, GAS, FI, 8 Valve, Vin A, C, E, P, ""TURBO"" (1984-90)	Daytona, E Class, Executive Limousine, Laser, LeBaron, New Yorker, TC Maserati, Town & Country	30
135 C.I., (2.2L), SOHC, GAS, FI, 8 Valve, Vin D (1984-94)	600, Aries, Caravelle, Daytona, E Class, Expo, Horizon, Lancer, Laser, LeBaron, New Yorker, Omni, Reliant, Shadow, Sundance	31
2346cc, (2.3L), SOHC, DIESEL, FI, 8 Valve, Vin 9, J, ""4D55T Mitsubishi TURBO"" (1983-85)	Power Ram 50, Ram 50	32
2351cc, (2.4L), SOHC, GAS, FI, 8 Valve, Vin G, W, ""G64B Mitsubishi"" (1990-93)	Colt, Ram 50	33
2351cc, (2.4L), SOHC, GAS, FI, 16 Valve, Vin G, ""4G64 Mitsubishi"" (1993-96)	Summit	34
2351cc, (2.4L), SOHC, GAS, FI, 16 Valve, Vin G, ""4G64 Mitsubishi"" (2001-05)	Sebring, Stratus	35
144 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin F, ""SRT-4 TURBO"" (2008-09)	Caliber SRT-4 Turbo	36
144 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin B, J, K, W, ED3, EDG, ""GEMA"" (2008-20)	200, Avenger, Caliber, Compass, Journey, Patriot, Sebring	37
144 C.I., (2.4L), SOHC, FLEX, GAS, FI, 16 Valve, Vin B, T, ED6, ED8 (2013-21)	200, Cherokee, Compass, Dart, ProMaster City, Renegade	38

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

Engine	Models	Line No.
4 Cylinder		
144 C.I., (2.4L), SOHC, GAS, FI, 16 Valve, Vin B, EDD, ""Tigershark"" (2017-21)	Compass	39
148 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin 9, B, J, X, EDZ (1995-10)	Breeze, Caravan, Cirrus, Grand Caravan, Grand Voyager, PT Cruiser, Sebring, Stratus, Voyager	40
148 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin 1, ""Power-Tech"" (2002-06)	Liberty, TJ, Wrangler	41
148 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin 8, E, G, S, EDV, EDT, ""TURBO"" (2003-09)	Neon, PT Cruiser	42
150 C.I., (2.5L), OHV, GAS, CARB, FI, 8 Valve, Vin E, H, P, U, ""AMC"" (1983-02)	Cherokee, CJ7, Comanche, Scrambler, TJ, Wagoneer, Wrangler	43
151 C.I., (2.5L), OHV, GAS, CARB, 8 Valve, Vin B, ""GM"" (1980-83)	CJ5, CJ7, DJ5, Scrambler	44
153 C.I., (2.5L), SOHC, GAS, FI, 8 Valve, Vin K (1986-95)	600, Aries, Caravan, Daytona, Dynasty, Executive Limousine, Grand Caravan, Grand Voyager, Lancer, Laser, LeBaron, Mini Ram, New Yorker, Shadow, Spirit, Town & Country, Voyager	46
153 C.I., (2.5L), SOHC, GAS, FI, 8 Valve, Vin J, ""TURBO"" (1989-92)	Acclaim, Daytona, Lancer, LeBaron, Shadow, Spirit, Sundance	47
2555cc, (2.6L), SOHC, GAS, CARB, 8 Valve, Vin 7, D, E, F, G, W, ""G54B Mitsubishi"" (1978-89)	400, 600, Aries, Arrow, Arrow Pickup, Caravan, Caravelle, Challenger, Colt, D50, E Class, Executive Limousine, Executive Sedan, LeBaron, Mini Ram, New Yorker, Power Ram 50, Raider, Ram 50, Reliant, Sapporo, Town & Country, Voyager	48
2555cc, (2.6L), SOHC, GAS, FI, 8 Valve, Vin H, N, ""G54B Mitsubishi TURBO"" (1984-89)	Conquest	49
2998cc, (3.0L), DOHC, DIESEL, FI, 16 Valve, Vin D, EXG, ""FIAT/IVECO"" (2014-18)	ProMaster 1500, ProMaster 2500, ProMaster 3500	61
5 Cylinder		
2705cc, (2.7L), DOHC, DIESEL, FI, 20 Valve, Vin 1, 2, 4, ""OM612/OM647 Mercedes TURBO"" (2003-06)	Sprinter 2500, Sprinter 3500	52
6 Cylinder		
2497cc, (2.5L), SOHC, GAS, FI, 24 Valve, Vin H, N, ""6G73 Mitsubishi"" (1995-00)	Avenger, Cirrus, Sebring, Stratus	45
161 C.I., (2.6L), OHV, GAS, CARB, 12 Valve, ""Willys F-HEAD"" (1952-55)	Aero Ace, Aero Comet, Aero Eagle, Aero Lark, Aero Wing, Bermuda, Custom	50
167 C.I., (2.7L), DOHC, FLEX, GAS, FI, 24 Valve, Vin D, R, T, U, EER (1998-10)	300, Avenger, Charger, Concorde, Intrepid, Magnum, Sebring, Stratus	51
170 C.I., (2.8L), OHV, GAS, CARB, 12 Valve (1960-69)	A100, A100 Truck, A108 Van, Barracuda, D100 Series, Dart, Lancer, P100, P100 Van, P200, P200 Van, Polara, Valiant	53
173 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, Vin W, ""GM"" (1984-86)	Cherokee, Comanche, Wagoneer	54
2972cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin 3, H, S, ""6G72 Mitsubishi"" (1987-00)	Acclaim, Caravan, Daytona, Dynasty, Grand Caravan, Grand Voyager, LeBaron, Mini Ram, New Yorker, Shadow, Spirit, Stealth, Sundance, TC Maserati, Voyager	55
2972cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin U, ""Renault"" (1988-92)	Monaco, Premier	56
2972cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin B, J, ""6G72 Mitsubishi"" (1991-96)	Stealth	57

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

Engine	Models	Line No.
6 Cylinder		
2972cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin C, K, ""6G72 Mitsubishi TURBO"" (1991-96)	Stealth	.58
2972cc, (3.0L), SOHC, GAS, FI, 24 Valve, Vin H, ""6G72 Mitsubishi"" (2001-05)	Sebring, Stratus	.59
2987cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, Vin 5, M, EXM, ""OM642 Mercedes TURBO"" (2007-09)	Grand Cherokee, Sprinter 2500, Sprinter 3500	.60
196 C.I., (3.2L), OHV, GAS, CARB, 12 Valve, Vin B, C (1958-65)	Classic, Custom, Deluxe, Rambler, Super Six	.62
197 C.I., (3.2L), SOHC, GAS, FI, 24 Valve, Vin J (1998-01)	Concorde, Intrepid	.63
198 C.I., (3.2L), OHV, GAS, CARB, 12 Valve, Vin A, B (1970-74)	A100 Truck, A108 Van, B100 Van, B200 Van, Barracuda, Challenger, D100 Pickup, Dart, Duster, Scamp, Valiant	.64
198 C.I., (3.2L), DOHC, GAS, FI, 24 Valve, Vin S, X, EHB, EHK, ""Pentastar"" (2014-21)	Cherokee	.65
199 C.I., (3.3L), OHV, GAS, CARB, 12 Valve, Vin A, B, E, J, P, ""AMC"" (1965-70)	Ambassador, American, Classic, Gremlin, Hornet, Marlin, Rambler, Rebel	.66
201 C.I., (3.3L), OHV, FLEX, GAS, FI, 12 Valve, Vin 3, E, G, H, R, T, U (1990-10)	Caravan, Concorde, Dynasty, Grand Caravan, Grand Voyager, Imperial, Intrepid, New Yorker, Town & Country, Voyager	.67
215 C.I., (3.5L), SOHC, GAS, FI, 24 Valve, Vin 4, F, G, K, M, V (1993-10)	300, 300M, Avenger, Challenger, Charger, Concorde, Intrepid, Journey, LHS, Magnum, New Yorker, Pacifica, Prowler, Sebring	.68
3498cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin 6, ""M272 Mercedes"" (2008-08)	Sprinter 2500, Sprinter 3500	.69
218 C.I., (3.6L), OHV, GAS, CARB, 12 Valve, ""L-HEAD"" (1949-54)	Belvedere, Cambridge, Concord, Cranbrook, Deluxe, Plaza, Savoy, Special Deluxe, Suburban	.70
220 C.I., (3.6L), DOHC, FLEX, GAS, FI, 24 Valve, Vin G, ERB, ""Pentastar"" (2011-21)	1500, 1500 Classic, 200, 300, Avenger, C/V, Challenger, Charger, Durango, Grand Caravan, Grand Cherokee, Journey, ProMaster 1500, ProMaster 2500, ProMaster 3500, Town & Country, Wrangler, Wrangler JK	.71
220 C.I., (3.6L), DOHC, ELECTRIC/GAS, FLEX, GAS, FI, 24 Valve, Vin 7, G, EH3, ERC, ERF, ERG, ""Pentastar"" (2016-21)	1500, Durango, Gladiator, Grand Cherokee, Pacifica, Voyager, Wrangler	.72
225 C.I., (3.7L), OHV, GAS, CARB, 12 Valve, Vin 6, B, C, D, E, F, G, H, J, K, L, M, N, W, X (1960-87)	A100, A100 Truck, A108 Van, Aspen, B100, B100 Van, B150, B200, B200 Van, B250, B300, B300 Van, Barracuda, Belvedere, Caravelle, CB300, Challenger, Charger, Cordoba, Coronet, D100, D100 Pickup, D100 Series, D150, D200, D200 Pickup, D200 Series, D250, D300, D300 Pickup, D300 Series, Dart, Diplomat, Duster, Fifth Avenue, Fury, Fury I, Fury II, Fury III, Gran Fury, LeBaron, Mirada, Monaco, New Yorker, Newport, P100, P100 Van, P200, P200 Van, P300, P300 Van, PB100, PB100 Van, PB150, PB200, PB200 Van	.73
225 C.I., (3.7L), OHV, GAS, CARB, 12 Valve, ""GM"" (1965-71)	CJ3, CJ5, CJ6, CJ6A, Commando, Dispatcher, DJ5, DJ6, FC150, Jeepster, Universal, Universal Truck	.74
226 C.I., (3.7L), OHV, GAS, CARB, 12 Valve, ""L-HEAD"" (1962-65)	6-226, FC150, FC170, Truck, Utility, Utility Wagon	.75
226 C.I., (3.7L), SOHC, GAS, FI, 12 Valve, Vin K (2002-12)	1500, Commander, Dakota, Durango, Grand Cherokee, Liberty, Nitro, Ram 1500	.76

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

Engine	Models	Line No.
6 Cylinder		
230 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, ""L-HEAD"" (1946-59)	Coronet, Custom, Deluxe, Meadowbrook, Wayfarer	77
230 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin 1, L, P (1991-11)	Caravan, Grand Caravan, Grand Voyager, Imperial, New Yorker, Pacifica, Town & Country, Voyager, Wrangler	78
232 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin B, C, E, F, G, L, M, P, Q, S, T, V, W, ""AMC Hi-Torque"" (1964-79)	Ambassador, American, CJ5, CJ6, CJ7, Classic, Commando, Concord, DJ5, FJ8, Gladiator, Gremlin, Hornet, J-100, J-2500, J-2600, J-2700, J-2800, J-3500, J-3600, J-3700, J-3800, J-4500, J-4600, J-4700, J-4800, Javelin, Marlin, Matador, Pacer, Rambler, Rebel, Spirit, Wagoneer	79
236 C.I., (3.9L), OHV, GAS, CARB, 12 Valve (1942-52)	Dodge	80
237 C.I., (3.9L), OHV, GAS, CARB, 12 Valve, ""L-HEAD"" (1942-53)	B-1, B-1 Truck, B-2, B-3, Truck, WD15	81
239 C.I., (3.9L), OHV, GAS, CARB, 12 Valve, Vin M (1987-87)	Dakota	82
239 C.I., (3.9L), OHV, GAS, FI, 12 Valve, Vin X (1988-03)	B150, B1500, B250, B2500, D100, D150, D250, Dakota, Durango, Ram 1500, Ram 1500 Van, Ram 2500 Van, W100, W150	83
241 C.I., (4.0L), SOHC, GAS, FI, 24 Valve, Vin 6, X (2007-11)	Grand Caravan, Nitro, Pacifica, Town & Country	84
242 C.I., (4.0L), OHV, GAS, FI, 12 Valve, Vin L, M, S, ""Jeep"" (1987-06)	Cherokee, Comanche, Grand Cherokee, TJ, Wagoneer, Wrangler	85
251 C.I., (4.1L), OHV, GAS, CARB, 12 Valve, ""L-HEAD"" (1950-68)	M300, P100, P200, P300, Truck, W300 Pickup, W300 Series, Wm300 Pickup, Wm300 Power Wagon	87
258 C.I., (4.2L), OHV, GAS, CARB, 12 Valve, Vin A, B, C, M, T, ""AMC"" (1971-90)	Ambassador, AMX, Cherokee, CJ5, CJ6, CJ7, Commando, Concord, DJ5, Eagle, FJ8, Grand Wagoneer, Gremlin, Hornet, J10, J-100, J20, J-2500, J-2600, J-3800, J-4500, J-4600, J-4700, J-4800, Javelin, Matador, Pacer, Scrambler, Spirit, Wagoneer, Wrangler	88
265 C.I., (4.3L), OHV, GAS, CARB, 12 Valve, ""L-HEAD"" (1952-60)	D300 Pickup, D300 Series, Newport, Town & Country, Truck, W300 Pickup, W300 Series, Windsor, Wm300 Power Wagon	89
359 C.I., (5.9L), OHV, DIESEL, FI, 12 Valve, Vin 8, C, D, ""Cummins 6B TURBO"" (1989-98)	D250, D350, Ram 2500, Ram 3500, W250, W350	108
359 C.I., (5.9L), OHV, DIESEL, FI, 24 Valve, Vin 6, 7, C, ""Cummins ISB TURBO"" (1998-09)	Ram 2500, Ram 3500	109
408 C.I., (6.7L), OHV, DIESEL, FI, 24 Valve, Vin A, L, ""Cummins ISB TURBO"" (2007-20)	2500, 3500, 4500, 5500, Ram 2500, Ram 3500	127
8 Cylinder		
250 C.I., (4.1L), OHV, GAS, CARB, ""AMC"" (1958-62)	Classic, Rebel	86
270 C.I., (4.4L), OHV, GAS, CARB, 16 Valve (1955-56)	Belvedere, Coronet, Custom, Fury, Lancer, Plaza, Royal, Savoy, Sierra, Suburban	90
273 C.I., (4.5L), OHV, GAS, CARB, 16 Valve (1964-67)	330, Charger, Coronet, Dart, Polara	91
277 C.I., (4.5L), OHV, GAS, CARB, 16 Valve (1956-57)	Belvedere, Fury, Plaza, Savoy, Suburban	92
287 C.I., (4.7L), OHV, GAS, CARB, 16 Valve, Vin H, N, T, ""AMC"" (1963-66)	Ambassador, Classic, Marlin, Rebel	93
287 C.I., (4.7L), SOHC, FLEX, GAS, FI, 16 Valve, Vin J, N, P (1999-13)	1500, Aspen, Commander, Dakota, Durango, Grand Cherokee, Ram 1500	94

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

Engine	Models	Line No.
8 Cylinder		
290 C.I., (4.8L), OHV, GAS, CARB, 16 Valve, Vin C, D, H, M, N, ""AMC Gen 2 Short Deck"" (1966-69)	American, Rambler, Rebel, Rogue	95
303 C.I., (5.0L), OHV, GAS, CARB, 16 Valve (1956-57)	Belvedere, D100 Pickup, D200 Pickup, D300 Pickup, Fury, Plaza, Savoy, Suburban, Truck	96
304 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, Vin H, I, M, ""AMC"" (1970-81)	Ambassador, AMX, CJ5, CJ6, CJ7, Commando, Concord, Gremlin, Hornet, J-100, J-2500, J-2600, J-4500, J-4600, J-4700, J-4800, Javelin, Matador, Pacer, Rebel, Spirit, Wagoneer	97
318 C.I., (5.2L), OHV, GAS, CARB, FI, 16 Valve, Vin 4, E, F, G, H, J, K, L, M, N, P, R, S, Z, ""Passenger Car"" (1957-89)	330, 440, Aspen, Barracuda, Belvedere, Belvedere II, Caravelle, Challenger, Charger, Cordoba, Coronet, Cuda, Custom, Dart, Diplomat, Duster, Fifth Avenue, Fleet Special, Fury, Fury I, Fury II, Fury III, Gran Fury, GTX, Imperial, LeBaron, Magnum, Matador, Mirada, Monaco, New Yorker, Newport, Phoenix, Pioneer, Plaza, Polara, Road Runner, Royal Monaco, Satellite, Savoy, Scamp, Seneca, Sport Wagon, St. Regis, Suburban, Town & Country, Valiant, VIP, Volare	98
318 C.I., (5.2L), OHV, GAS, CARB, 16 Valve, Vin 8, E, G, P, R, T, U, ""Truck"" (1959-87)	A100, A100 Truck, B100, B100 Van, B150, B200, B200 Van, B250, B300, B300 Van, B350, CB300, D100, D100 Pickup, D100 Series, D150, D200, D200 Pickup, D200 Series, D250, D300, D300 Pickup, D300 Series, D350, M300, M350, MB300, P300 Series, P310 Series, P320 Series, P410 Series, P420 Series, P450 Series, PB100, PB100 Van, PB150, PB200, PB200 Van, PB250, PB300, PB300 Van, PB350, R300, Ramcharger, RD200, RM300, RM350, Truck, W100, W100 Pickup, W100 Series, W150, W200, W200 Pickup, W200 Series, W250,	99
318 C.I., (5.2L), OHV, GAS, CARB, 16 Valve, ""Motor Home"" (1969-75)	Motor Home Applications	100
318 C.I., (5.2L), OHV, GAS, FI, 16 Valve, Vin Y (1988-03)	B150, B1500, B250, B2500, B350, B3500, D100, D150, D250, Dakota, Durango, Grand Cherokee, Grand Wagoneer, Ram 1500, Ram 1500 Van, Ram 2500, Ram 2500 Van, Ram 3500 Van, Ramcharger, W100, W150, W250	101
326 C.I., (5.3L), OHV, GAS, CARB, 16 Valve (1959-59)	Coronet, Custom, Lancer	102
327 C.I., (5.3L), OHV, GAS, CARB, 16 Valve, ""AMC"" (1960-70)	Ambassador, Classic, Gladiator, J-100, J-200, J-210, J-220, J-230, J-2500, J-2600, J-2700, J-2800, J-300, J-310, J-320, J-330, J-3500, J-3600, J-3700, J-3800, J-4500, J-4600, J-4700, J-4800, Marlin, Rebel, Wagoneer	103
340 C.I., (5.6L), OHV, GAS, CARB, 16 Valve, Vin H, J, P (1968-73)	Barracuda, Belvedere, Challenger, Charger, Coronet, Cuda, Dart, Duster, Polara, Roadrunner, Satellite, Valiant	104
343 C.I., (5.6L), OHV, GAS, CARB, 16 Valve, Vin J, K, Q, R, S, T, V, W, X, Z, ""AMC"" (1967-69)	Ambassador, American, AMX, Javelin, Marlin, Rambler, Rebel	105
345 C.I., (5.7L), OHV, ELECTRIC/GAS, FLEX, GAS, FI, 16 Valve, Vin 2, D, H, T, ""HEMI"" (2003-21)	1500, 1500 Classic, 2500, 300, 3500, Aspen, Challenger, Charger, Commander, Durango, Grand Cherokee, Magnum, Ram 1500, Ram 2500, Ram 3500	106
354 C.I., (5.8L), OHV, GAS, CARB, 16 Valve (1956-56)	300, Imperial, New Yorker, Newport, St Regis, Town & Country	107
360 C.I., (5.9L), OHV, GAS, CARB, 16 Valve, Vin 7, N, P, ""AMC"" (1970-91)	Ambassador, AMX, Cherokee, Grand Wagoneer, Hornet, J10, J-100, J20, J-2500, J-2600, J-3800, J-4500, J-4600, J-4700, J-4800, Javelin, Matador, Rebel, Wagoneer	110
360 C.I., (5.9L), OHV, GAS, CARB, 16 Valve (1975-77)	Series 500, 600	111
360 C.I., (5.9L), OHV, GAS, CARB, 16 Valve, ""Motor Home"" (1976-79)	Motor Home	112

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

Engine	Models	Line No.
8 Cylinder		
360 C.I., (5.9L), OHV, GAS, CARB, 16 Valve, Vin J, K, L, ""Passenger Car"" (1971-80)	Aspen, Barracuda, Caravelle, Challenger, Charger, Cordoba, Coronet, Cuda, Dart, Diplomat, Duster, Fury, Fury I, Fury II, Fury III, Gran Fury, LeBaron, Magnum, Mirada, Monaco, New Yorker, Newport, Polara, Roadrunner, Royal Monaco, Satellite, St. Regis, Town & Country, Valiant, Volare	113
360 C.I., (5.9L), OHV, GAS, CARB, 16 Valve, Vin 1, 5, F, K, S, T, U, W, Y, ""Truck"" (1971-88)	B100, B100 Van, B200, B200 Van, B250, B300, B300 Van, B350, CB300, D100, D100 Pickup, D150, D200, D200 Pickup, D250, D300, D300 Pickup, D350, D400, D450, P200, P300, PB100, PB100 Van, PB200, PB200 Van, PB250, PB300, PB300 Van, PB350, Ramcharger, RD200, Trailduster, W100, W100 Pickup, W150, W200, W200 Pickup, W250, W300, W300 Pickup, W350	114
360 C.I., (5.9L), OHV, GAS, FI, 16 Valve, Vin 5, Z (1989-03) .	B1500, B250, B2500, B350, B3500, D150, D250, D350, Dakota, Durango, Grand Cherokee, Ram 1500, Ram 1500 Van, Ram 2500, Ram 2500 Van, Ram 3500, Ram 3500 Van, Ramcharger, W150, W250, W350	115
361 C.I., (5.9L), OHV, GAS, CARB, 16 Valve, Vin F, ""Passenger Car B Short Deck"" (1959-66)	880, Barracuda, Belvedere, Charger, Coronet, Custom, Dart, Fleet Special, Fury, Lancer, Matador, Newport, Phoenix, Pioneer, Polara, Royal, Satellite, Savoy, Seneca, Sierra, Sport Wagon, Suburban, Town & Country	116
361 C.I., (5.9L), OHV, GAS, CARB, 16 Valve, ""Truck B Short Deck"" (1960-77)	Truck	117
370 C.I., (6.1L), OHV, GAS, FI, 16 Valve, Vin 3, W, ""HEMI"" (2005-10)	300, Challenger, Charger, Grand Cherokee, Magnum	118
376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin 9, ESD, ""Supercharged HEMI"" (2015-21)	Challenger, Charger, Durango, Grand Cherokee	119
383 C.I., (6.3L), OHV, GAS, CARB, 16 Valve, Vin 8, G, H, J, L, N (1959-71)	300, 440, 880, Barracuda, Belvedere, Belvedere II, Challenger, Charger, Coronet, Cuda, Custom, D100 Pickup, D100 Series, D200 Pickup, D200 Series, D300 Pickup, D300 Series, Dart, Fleet Special, Fury, Fury I, Fury II, Fury III, GTX, Lancer, Matador, Monaco, Phoenix, Pioneer, Polara, Road Runner, Royal, Satellite, Savoy, Seneca, Sierra, Sport Wagon, Suburban, VIP, W100 Pickup, W100 Series, W200 Pickup, W200 Series, W300 Pickup, W300 Series	120
390 C.I., (6.4L), OHV, GAS, CARB, 16 Valve, Vin W, X, Y, ""AMC"" (1968-70)	Ambassador, AMX, Javelin, Rambler, Rebel	121
392 C.I., (6.4L), OHV, GAS, CARB, 16 Valve (1957-58)	300, Imperial, New Yorker, Newport, Town & Country	122
392 C.I., (6.4L), OHV, GAS, FI, 16 Valve, Vin J, ""SRT-8 HEMI"" (2011-21)	300, Challenger, Charger, Durango, Grand Cherokee	123
392 C.I., (6.4L), OHV, GAS, FI, 16 Valve, Vin J, ESA, ESB, ""HEMI"" (2014-20)	2500, 3500	124
400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin J, M, N, P (1972-78)	B200, B200 Van, B300, B300 Van, CB300, Challenger, Charger, Coronet, D100, D100 Pickup, D150, D200, D200 Pickup, D300, D300 Pickup, Fury, Fury I, Fury II, Fury III, Gran Fury, Magnum, Monaco, PB200, PB300, Polara, Ramcharger, Road Runner, Royal Monaco, Satellite, W100, W100 Pickup, W150, W200, W200 Pickup, W300, W300 Pickup	125
401 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin Z (1971-78)	Ambassador, Cherokee, J10, J20, Javelin, Matador, Wagoneer	126
413 C.I., (6.8L), OHV, GAS, CARB, 16 Valve (1959-65)	300, 880, Custom, Dart, Imperial, Lancer, Monaco, New Yorker, Newport, Polara, Town & Country	128

(Cont'd) CHRYSLER / PASSENGER CAR OR TRUCK

Engine	Models	Line No.		
8 Cylinder				
426 C.I., (7.0L), OHV, GAS, CARB, 16 Valve, Vin H, J, R, ""HEMI"" (1965-71)	880, Barracuda, Belvedere, Challenger, Charger, Coronet, Cuda, Fury, Fury II, Fury III, GTX, Monaco, Polara, Road Runner, Satellite, Superbird	129		
440 C.I., (7.2L), OHV, GAS, CARB, 16 Valve, Vin K, L, M, T, U, V (1966-78)	300, Barracuda, Belvedere, Belvedere II, Challenger, Charger, Coronet, Cuda, Fury, Fury I, Fury II, Fury III, Gran Fury, GTX, Imperial, Monaco, New Yorker, Newport, Polara, Road Runner, Royal Monaco, Satellite, Superbird, Town & Country, VIP	130		
440 C.I., (7.2L), OHV, GAS, CARB, 16 Valve, Vin A, D (1973-79)	B100 Van, B200, B200 Van, B300, B300 Van, CB300, D100, D100 Pickup, D150, D200, D200 Pickup, D300, D300 Pickup, D400, D450, M300, M350, MB300, PB200, PB200 Van, PB300, PB300 Van, Ramcharger, W100, W100 Pickup, W150, W200, W200 Pickup, W300, W300 Pickup	131		
478 C.I., (7.8L), OHV, GAS, CARB, 16 Valve, ""Truck"" (1969-77)	Trucks	132		
10 Cylinder				
488 C.I., (8.0L), OHV, GAS, FI, 20 Valve, Vin E, ""Viper"" (1992-02)	Viper	133		
488 C.I., (8.0L), OHV, GAS, FI, 20 Valve, Vin W, ""Truck"" (1994-03)	Ram 2500, Ram 3500	134		
505 C.I., (8.3L), OHV, GAS, FI, 20 Valve, Vin H, ""Truck"" (2004-06)	Ram 1500	135		
515 C.I., (8.4L), OHV, GAS, FI, 20 Valve, Vin Z, ""Viper"" (2008-17)	Viper	136		
83 C.I., (1.4L), SOHC, GAS, FI, 16 Valve, Vin H, EAF, ""Fiat FIRE MultiAir TURBO""		1		
2013-16	L4 83 CID	CHR1.4-EAF BORE - 71.9mm/2.83""		
PART	YEARS	PART NO.	NOTES	
Keeper	Both	2013-16	121-1098	3 RD Bead Type
Stem Seal	Both	2013-16	122-1363	Positive Type,Viton Material,Metal Clad Style
83 C.I., (1.4L), SOHC, GAS, FI, 16 Valve, Vin H, EAM, ""Fiat FIRE MultiAir TURBO""		2		
2015-18	L4 83 CID	CHR1.4-EAM BORE - 71.9mm/2.83""		
PART	YEARS	PART NO.	NOTES	
Keeper	Both	2015-18	121-1098	3 RD Bead Type
Stem Seal	Both	2015-18	122-1363	Positive Type,Viton Material,Metal Clad Style
1397cc, (1.4L), OHV, GAS, FI, 8 Valve, Vin D, E, ""C35 Renault""		3		
1984-87	L4 85 CID	1.4-C35 BORE - 76mm/2.99""		
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1984-87	SB1437-53	17/16 O.D.,1.090T I.D.,0.3540 Depth
	Exh	1984-87	SB1250-53	1¼ O.D.,1.024 I.D.,0.2570 Depth
1410cc, (1.4L), SOHC, GAS, CARB, 8 Valve, Vin 2, A, J, ""G12B Mitsubishi""		4		
1979-84	L4 86 CID	CHRG12B BORE - 74mm/2.91""		
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1979-84	SB1312-53	15/16 O.D.,0.980T I.D.,0.2930 Depth
Keeper	Both	1979-84	121-1031	1 RD Bead Type
Guide	Exh	1979-84	140-7589	0.2600 I.D.,1.950 Length,0.4755 O.D.

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

5 1468cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin K, ""G15B Mitsubishi"" CHR415B-CA
1985-88 L4 90 CID BORE - 75.5mm/2.97""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1985-88 SB1312-53	1 ⁵ / ₁₆ O.D.,0.980T I.D.,0.2930 Depth
Keeper	Both	1985-88 121-1031	1 RD Bead Type
Stem Seal	Both	1985-88 122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Exh	1985-88 140-7589	0.2600 I.D.,1.950 Length,0.4755 O.D.

6 1468cc, (1.5L), SOHC, GAS, FI, 8 Valve, Vin P, X, ""4G15 Mitsubishi"" CHR4G15-8V
1988-90 L4 90 CID BORE - 75.5mm/2.97""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1988-90 1988-90 SB1437-63 SB1312-53	1 ⁷ / ₁₆ O.D.,1.181T I.D.,0.2800 Depth 1 ⁵ / ₁₆ O.D.,0.980T I.D.,0.2930 Depth
Keeper	Both	1988-90 121-1031	1 RD Bead Type
Stem Seal	Both	1988-90 122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Exh	1988-90 140-7589	0.2600 I.D.,1.950 Length,0.4755 O.D.

7 1468cc, (1.5L), SOHC, GAS, FI, 12 Valve, Vin A, K, ""4G15 Mitsubishi"" CHR4G15-12V
1991-96 L4 90 CID BORE - 75.5mm/2.97""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1991-96 1991-96 1991-96 SB1125-52 SB1312-62 SB1437-61	1 ¹ / ₈ O.D.,0.825T I.D.,0.2850 Depth,Use W/ Valve # 10495 1 ⁵ / ₁₆ O.D.,1.065T I.D.,0.2850 Depth,Use W/ Valve # 10496 1 ⁷ / ₁₆ O.D.,1.162 I.D.,0.3100 Depth
Valve	Int Exh	1991-96 1991-96 1991-96 10495 10496 10497	1.023 Head Diameter 1.220 Head Diameter 1.299 Head Diameter
Keeper	Both	1991-96 121-1031	1 RD Bead Type
Stem Seal	Both	1991-96 122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Exh	1991-96 140-7589	0.2600 I.D.,1.950 Length,0.4755 O.D.

8 1597cc, (1.6L), SOHC, GAS, CARB, 8 Valve, Vin K, ""4G32 Mitsubishi"" CHR4G32
1971-78 L4 98 CID BORE - 76.9mm/3.03""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1971-78 1971-78 SB1562-50 SB1375-51	1 ⁹ / ₁₆ O.D.,1.260T I.D.,0.2800 Depth 1 ³ / ₈ O.D.,1.060T I.D.,0.2800 Depth
Valve	Int Exh	1971-78 1971-78 10076 10083	1.488 Head Diameter,Square Groove 1.220 Head Diameter,Square Groove
Keeper	Both	1971-78 121-1034	1 SQ Bead Type
Stem Seal	Both	1971-78 122-1086	Positive Type,Viton Material,Metal Clad Style
Guide	Int Exh	1971-78 1971-78 140-7576 140-7577	0.3150 I.D.,1.735 Length,0.5145 O.D. 0.3150 I.D.,1.890 Length,0.5143 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both	1971-78 160-1030	1.822 Length

9 1597cc, (1.6L), SOHC, GAS, CARB, 8 Valve, Vin 3, B, K, ""G32B Mitsubishi"" CHR4G32B-CA
1977-84 L4 98 CID BORE - 76.9mm/3.03""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1977-84 1977-84 SB1562-50 SB1375-51	1 ⁹ / ₁₆ O.D.,1.260T I.D.,0.2800 Depth 1 ³ / ₈ O.D.,1.060T I.D.,0.2800 Depth
Valve	Int Exh	1977-83 1984-84 1977-83 10076 10127 10083	1.488 Head Diameter,Square Groove 1.496 Head Diameter,Round Groove 1.220 Head Diameter,Square Groove

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

1597cc, (1.6L), SOHC, GAS, CARB, 8 Valve, Vin 3, B, K, ""G32B Mitsubishi"" **9**
1977-84 L4 98 CID CHRG32B-CA (cont.)
BORE - 76.9mm/3.03""

PART	YEARS	PART NO.	NOTES
Valve	Exh 1984-84	10129	1.220 Head Diameter,Round Groove
Keeper	Both 1977-83	121-1034	1 SQ Bead Type
	1984-84	121-1039	1 RD Bead Type
Stem Seal	Both 1977-84	122-1086	Positive Type,Viton Material,Metal Clad Style
Guide	Int 1977-84	140-7576	0.3150 I.D.,1.735 Length,0.5145 O.D.
	Exh 1977-84	140-7577	0.3150 I.D.,1.890 Length,0.5143 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both 1977-84	160-1030	1.822 Length

1597cc, (1.6L), SOHC, GAS, FI, 8 Valve, Vin F, ""G32B Mitsubishi TURBO"" **10**
1984-88 L4 98 CID CHRG32B-T
BORE - 76.9mm/3.03""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1984-88	SB1562-50	1 ⁹ / ₁₆ O.D.,1.260T I.D.,0.2800 Depth
	Exh 1984-88	SB1375-51	1 ³ / ₈ O.D.,1.060T I.D.,0.2800 Depth
Valve	Int 1984-88	10127	1.496 Head Diameter,Round Groove
	Exh 1984-88	10129	1.220 Head Diameter,Round Groove
Keeper	Both 1984-88	121-1039	1 RD Bead Type
Stem Seal	Both 1984-88	122-1086	Positive Type,Viton Material,Metal Clad Style
Guide	Int 1984-88	140-7576	0.3150 I.D.,1.735 Length,0.5145 O.D.
	Exh 1984-88	140-7577	0.3150 I.D.,1.890 Length,0.5143 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both 1984-88	160-1030	1.822 Length

1597cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin F, Z, ""4G61 Mitsubishi TURBO"" **11**
1989-90 L4 98 CID CHR4G61-T
BORE - 82.3mm/3.24""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1989-90	SB1437-68	1 ⁷ / ₁₆ O.D.,1.135T I.D.,0.3160 Depth
	Exh 1989-90	SB1312-64	1 ⁵ / ₁₆ O.D.,1.045 I.D.,0.3160 Depth
Valve	Int 1989-90	10126A	1.339 Head Diameter,Nitride
		10126R	1.378 Head Diameter,Performance Version W/ 1.0mm Larger Head Diameter
	Exh 1989-90	10128A	1.201 Head Diameter,Nitride
		10128R	1.221 Head Diameter,Performance Version W/ 0.5mm Larger Head Diameter
Keeper	Both 1989-90	121-1031	1 RD Bead Type
Stem Seal	Both 1989-90	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int 1989-90	140-8193	0.2600 I.D.,1.795 Length,0.4755 O.D.,+2 O/S Available
		340-1013BR	0.2598 I.D.,1.795 Length,0.4760 O.D.,Optional Bronze Guide
	Exh 1989-90	140-8194	0.2600 I.D.,1.990 Length,0.4755 O.D.,+2 O/S Available
		340-1014BR	0.2598 I.D.,1.990 Length,0.4755 O.D.,Optional Bronze Guide
Lifter	Both 1989-90	VL135	Hydraulic Lash Adjuster Type

1597cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin Y, ""4G61 Mitsubishi"" **12**
1989-90 L4 98 CID CHR4G61
BORE - 82.3mm/3.24""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1989-90	SB1437-68	1 ⁷ / ₁₆ O.D.,1.135T I.D.,0.3160 Depth
	Exh 1989-90	SB1312-64	1 ⁵ / ₁₆ O.D.,1.045 I.D.,0.3160 Depth
Valve	Int 1989-90	10126A	1.339 Head Diameter,Nitride

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

12 1597cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin Y, ""4G61 Mitsubishi"" **CHR4G61**
 (cont.) 1989-90 L4 98 CID **BORE - 82.3mm/3.24""**

PART	YEARS	PART NO.	NOTES	
Valve	Int	1989-90	10126R	1.378 Head Diameter, Performance Version W/ 1.0mm Larger Head Diameter
	Exh	1989-90	10128A	1.201 Head Diameter, Nitride
		1989-90	10128R	1.221 Head Diameter, Performance Version W/ 0.5mm Larger Head Diameter
Keeper	Both	1989-90	121-1031	1 RD Bead Type
Stem Seal	Both	1989-90	122-1114	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1989-90	140-8193	0.2600 I.D., 1.795 Length, 0.4755 O.D., +2 O/S Available
		1989-90	340-1013BR	0.2598 I.D., 1.795 Length, 0.4760 O.D., Optional Bronze Guide
	Exh	1989-90	140-8194	0.2600 I.D., 1.990 Length, 0.4755 O.D., +2 O/S Available
		1989-90	340-1014BR	0.2598 I.D., 1.990 Length, 0.4755 O.D., Optional Bronze Guide
Lifter	Both	1989-90	VL135	Hydraulic Lash Adjuster Type

13 1721cc, (1.7L), SOHC, GAS, CARB, 8 Valve, Vin A, B, ""Volkswagen"" **1.7VW**
 1978-83 L4 105 CID **BORE - 79.5mm/3.13""**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1978-83	SB1437-50	1 ⁷ / ₁₆ O.D., 1.140T I.D., 0.3050 Depth
	Exh	1978-83	SB1312-50	1 ⁵ / ₁₆ O.D., 1.086T I.D., 0.3050 Depth
		1978-83	SB1312-56	1 ⁵ / ₁₆ O.D., 1.086 I.D., 0.3050 Depth, Optional Straight I.D.
Keeper	Both	1978-83	121-1020	1 RD Bead Type
		1978-83	121-1083	3 RD Bead Type
Stem Seal	Both	1978-83	122-1089	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1978-83	140-7359	0.3155 I.D., 1.435 Length, 0.4765 O.D.

14 1755cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin B, T, ""4G37 Mitsubishi"" **CHR4G37**
 1989-94 L4 107 CID **BORE - 80.6mm/3.17""**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1989-94	SB1500-75	1 ¹ / ₂ O.D., 1.180 I.D., 0.3000 Depth
Keeper	Both	1989-94	121-1039	1 RD Bead Type
Stem Seal	Both	1989-94	122-1086	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1989-94	140-7576	0.3150 I.D., 1.735 Length, 0.5145 O.D.
	Exh	1989-94	140-7577	0.3150 I.D., 1.890 Length, 0.5143 O.D., W/ Snap Ring, +2 O/S Available
Lifter	Both	1989-94	VL141	Hydraulic Lash Adjuster Type
Head Saver Shim		1989-94	230-2085	New Hgt. - 3.484; Min. Hgt. 3.476

15 1834cc, (1.8L), SOHC, GAS, FI, 16 Valve, Vin C, D, ""4G93 Mitsubishi"" **CHR4G93**
 1992-96 L4 112 CID **BORE - 81mm/3.19""**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1993-96	SB1250-60	1 ¹ / ₄ O.D., 1.023T I.D., 0.2730 Depth
	Exh	1992-92	SB1187-51	1 ³ / ₁₆ O.D., 0.905 I.D., 0.2570 Depth
		1993-96	SB1187-54	1 ³ / ₁₆ O.D., 0.880 I.D., 0.2800 Depth
Valve	Int	1992-96	10498	1.181 Head Diameter
	Exh	1992-96	10499	1.063 Head Diameter
Keeper	Both	1992-96	121-1096	1 RD Bead Type
Stem Seal	Both	1992-96	122-1252	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1992-96	140-8554	0.2355 I.D., 1.790 Length, 0.4360 O.D.
	Exh	1992-96	140-8571	0.2360 I.D., 1.990 Length, 0.4360 O.D.
Lifter	Both	1992-96	VL141	Hydraulic Lash Adjuster Type

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

1834cc, (1.8L), SOHC, GAS, FI, 16 Valve, Vin C, D, ""4G93 Mitsubishi"" **CHR4G93 15**
1992-96 L4 112 CID **BORE - 81mm/3.19"" (cont.)**

PART	YEARS	PART NO.	NOTES
Head Bolt Set	1992-96	220-1046	Torque To Yield,Services Engine

110 C.I., (1.8L), DOHC, GAS, FI, 16 Valve, Vin C, ""GEMA"" **CHR-1.8DC 16**
2007-09 L4 110 CID **BORE - 85.9mm/3.38""**

PART	YEARS	PART NO.	NOTES	
Valve	Int Exh	2007-09 2007-09	13190 13191	1.378 Head Diameter 1.142 Head Diameter
Keeper	Both	2007-09	121-1060	1 RD Bead Type
Stem Seal	Both	2007-09	122-1440	Positive Type,Viton Material,Top Hat Style
Guide	Both	2007-09	140-3154	0.2168 I.D.,1.740 Length,0.4358 O.D.

1983cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin G, K, ""Audi"" **AMC121 17**
1977-79 L4 121 CID **BORE - 86.5mm/3.41""**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1977-79	SB1437-59	17/16 O.D.,1.180T I.D.,0.3050 Depth

1997cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin 5, U, ""G52B Mitsubishi"" **CHRG52B 18**
1974-82 L4 122 CID **BORE - 84mm/3.30""**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1974-82 1974-82	SB1750-61 SB1500-62	1¼ O.D.,1.445T I.D.,0.3100 Depth 1½ O.D.,1.220T I.D.,0.3100 Depth
Valve	Int Exh	1974-82 1974-82	10065 10064	1.689 Head Diameter,Square Groove 1.376 Head Diameter,Square Groove
Keeper	Both	1974-82	121-1034	1 SQ Bead Type
Stem Seal	Both	1974-82	122-1086	Positive Type,Viton Material,Metal Clad Style,Use W/ .5145 O.D. Guide
Guide	Int Exh	1974-82 1974-82	140-7574 140-7575	0.3150 I.D.,1.848 Length,0.5143 O.D.,+2 O/S Available 0.3150 I.D.,2.046 Length,0.5145 O.D.,W/ Snap Ring,+2 & +6 O/S Available
Spring	Both	1974-82	160-1031	1.875 Length

122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin Y, ""420A"" **2.0NEON-DC 19**
1995-99 L4 122 CID **BORE - 87.5mm/3.45""**

PART	YEARS	PART NO.	NOTES	
Valve	Int Exh	1995-99 1995-99	01730 01731	1.370 Head Diameter,1 Groove 1.201 Head Diameter,1 Groove
Keeper	Both	1995-99	121-1086	1 RD Bead Type
Stem Seal	Both	1995-99	122-1251	Positive Type,Viton Material,Top Hat Style
Guide	Both	1995-99	140-8556	0.2355 I.D.,1.735 Length,0.4360 O.D.,+2 O/S Available
Spring	Both	1995-99	160-1347	1.840 Length,Revised Spring, Must Be Installed As An Engine Set
Lifter	Both	1995-99	VL173	Hydraulic Lash Adjuster Type
Rocker Components	Both	1995-99	180-1324	Roller Cam Follower
Head Bolt Set		1995-99	220-1072	Torque To Yield,Services Engine
Head Saver Shim		1995-99	230-2083	New Hgt. - 5.4115 - 5.4193; Min. Hgt. 5.4035

122 C.I., (2.0L), SOHC, GAS, FI, 16 Valve, Vin C, F, ECB **2.0NEON-SC 20**
1995-05 L4 122 CID **BORE - 87.5mm/3.45""**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1995-05	SB1375-55	1% O.D.,1.120 I.D.,0.3250 Depth

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

20 122 C.I., (2.0L), SOHC, GAS, FI, 16 Valve, Vin C, F, ECB 2.0NEON-SC
 (cont.) 1995-05 L4 122 CID BORE - 87.5mm/3.45"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1995-05	SB1250-62	1¼ O.D., 1.000 I.D., 0.3050 Depth
Valve	Int 1995-01	01741	1.309 Head Diameter, 1 Groove
	2001-05	01991	1.309 Head Diameter, 3 Groove
	Exh 1995-01	01742	1.130 Head Diameter, 1 Groove
	2001-05	01992	1.130 Head Diameter, 3 Groove
Keeper	Both 1995-01	121-1086	1 RD Bead Type
	2001-05	121-1087	3 RD Bead Type
Stem Seal	Both 1995-05	122-1251	Positive Type, Viton Material, Top Hat Style
Guide	Both 1995-05	140-8555	0.2355 I.D., 1.835 Length, 0.4360 O.D., +2 O/S Available
Spring	Both 1995-05	160-1377	1.860 Length, Except ACR, R/T, H.O. Engines
Rocker Components	Int 1995-05	180-1321	Roller Cam Follower, Incl. Lash Adj.
	Exh 1995-05	180-1320	Roller Cam Follower, Incl. Lash Adj.
Head Bolt Set	1995-05	220-1074	Torque To Yield, Services Engine
Head Saver Shim	1995-05	230-2002	New Hgt. - 4.5680; Min. Hgt. - 4.5600

21 122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin 0, A, B, ECN, ""GEMA"" 2.0-ECN
 2007-17 L4 122 CID BORE - 86.1mm/3.39"

PART	YEARS	PART NO.	NOTES
Valve	Int 2007-17	13190	1.378 Head Diameter
	Exh 2007-17	13191	1.142 Head Diameter
Keeper	Both 2007-17	121-1060	1 RD Bead Type
Stem Seal	Both 2007-17	122-1440	Positive Type, Viton Material, Top Hat Style
Guide	Both 2007-17	140-3154	0.2168 I.D., 1.740 Length, 0.4358 O.D.

22 122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin A, ECK, ""Tigershark"" 2.0-ECK
 2013-16 L4 122 CID BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES
Valve	Int 2013-16	13400	1.417 Head Diameter
	Exh 2013-16	13402	1.142 Head Diameter
Keeper	Both 2013-16	121-1140	3 RD Bead Type
Stem Seal	Both 2013-16	122-1467	Positive Type, Viton Material, Top Hat Style
Spring	Both 2013-16	160-1682	1.834 Length
Lifter	Both 2013-16	VL561	Hydraulic Lash Adjuster Type

23 122 C.I., (2.0L), DOHC, ELECTRIC/GAS, GAS, FI, 16 Valve, Vin N, EC3, ""TURBO"" CHR2.0-EC3
 2018-21 L4 122 CID BORE - 84mm/3.30"

PART	YEARS	PART NO.	NOTES
Keeper	Both 2018-20	121-1140	3 RD Bead Type
Lifter	Both 2018-20	VL561	Hydraulic Lash Adjuster Type

24 1997cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin 5, D, ""G63B Mitsubishi"" CHRG63B-CA
 1983-88 L4 122 CID BORE - 84mm/3.30", 85mm/3.35"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1983-88	SB1750-61	1¼ O.D., 1.445T I.D., 0.3100 Depth
	Exh 1983-88	SB1500-62	1½ O.D., 1.220T I.D., 0.3100 Depth
Valve	Int 1983-88	10141	1.693 Head Diameter
	Exh 1983-88	10142	1.378 Head Diameter
Keeper	Both 1983-88	121-1039	1 RD Bead Type

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

1997cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin 5, D, ""G63B Mitsubishi"" CHR63B-CA 24
1983-88 L4 122 CID BORE - 84mm/3.30"", 85mm/3.35"" (cont.)

PART		YEARS	PART NO.	NOTES
Stem Seal	Both	1983-88	122-1086	Positive Type,Viton Material,Metal Clad Style,Use W/ .5145 O.D. Guide
Guide	Int	1983-88	140-7574	0.3150 I.D.,1.848 Length,0.5143 O.D.,+2 O/S Available
	Exh	1983-88	140-7575	0.3150 I.D.,2.046 Length,0.5145 O.D.,W/ Snap Ring,+2 & +6 O/S Available
Spring	Both	1983-84	160-1031	1.875 Length
		1984-88	160-1079	1.960 Length
Lifter	Both	1983-88	VL141	Hydraulic Lash Adjuster Type
Head Saver Shim		1983-88	230-2001	New Hgt.- 3.5430; Min. Hgt.- 3.5230

1997cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin V, ""G63B Mitsubishi"" CHR63B-FI 25
1989-91 L4 122 CID BORE - 85mm/3.35""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1989-91	SB1750-61	1¼ O.D.,1.445T I.D.,0.3100 Depth
	Exh	1989-91	SB1500-62	1½ O.D.,1.220T I.D.,0.3100 Depth
Valve	Int	1989-91	10141	1.693 Head Diameter
	Exh	1989-91	10142	1.378 Head Diameter
Keeper	Both	1989-91	121-1039	1 RD Bead Type
Stem Seal	Both	1989-91	122-1086	Positive Type,Viton Material,Metal Clad Style,Use W/ .5145 O.D. Guide
Guide	Int	1989-91	140-7574	0.3150 I.D.,1.848 Length,0.5143 O.D.,+2 O/S Available
	Exh	1989-91	140-7575	0.3150 I.D.,2.046 Length,0.5145 O.D.,W/ Snap Ring,+2 & +6 O/S Available
Spring	Both	1989-91	160-1079	1.960 Length
Lifter	Both	1989-91	VL141	Hydraulic Lash Adjuster Type
Head Saver Shim		1989-91	230-2001	New Hgt.- 3.5430; Min. Hgt.- 3.5230

1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin E, R, ""4G63 Mitsubishi"" CHR4G63-DC 26
1990-94 L4 122 CID BORE - 85mm/3.35""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	05/92-94	SB1437-73	17/16 O.D.,1.142T I.D.,0.3360 Depth
		1990-04/92	SB1437-68	17/16 O.D.,1.135T I.D.,0.3160 Depth
	Exh	1990-94	SB1312-64	15/16 O.D.,1.045 I.D.,0.3160 Depth
Valve	Int	1990-94	10126A	1.339 Head Diameter,Nitride
		1990-94	10126R	1.378 Head Diameter,Performance Version W/ 1.0mm Larger Head Diameter
	Exh	1990-94	10128A	1.201 Head Diameter,Nitride
		1990-94	10128R	1.221 Head Diameter,Performance Version W/ 0.5mm Larger Head Diameter
Keeper	Both	1990-94	121-1031	1 RD Bead Type
Stem Seal	Both	1990-94	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1990-94	140-8193	0.2600 I.D.,1.795 Length,0.4755 O.D.,+2 O/S Available
		1990-94	340-1013BR	0.2598 I.D.,1.795 Length,0.4760 O.D.,Optional Bronze Guide
	Exh	1990-94	140-8194	0.2600 I.D.,1.990 Length,0.4755 O.D.,+2 O/S Available
		1990-94	340-1014BR	0.2598 I.D.,1.990 Length,0.4755 O.D.,Optional Bronze Guide
Lifter	Both	1990-94	VL135	Hydraulic Lash Adjuster Type
Head Saver Shim		1990-94	230-2001	New Hgt.- 5.1968 - 5.2010; Min. Hgt.- 5.1880

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

27 1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F, U, ""4G63
Mitsubishi TURBO""
1990-98 L4 122 CID

CHR4G63-DCTCHR4G63-DCT
BORE - 85mm/3.35""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	05/92-98 1990-92	SB1437-73 SB1437-68	1 ⁷ / ₁₆ O.D., 1.142T I.D., 0.3360 Depth 1 ⁷ / ₁₆ O.D., 1.135T I.D., 0.3160 Depth
	Exh	1990-98	SB1312-64	1 ⁵ / ₁₆ O.D., 1.045 I.D., 0.3160 Depth
Valve	Int	1990-98 1990-98	10126A 10126R	1.339 Head Diameter, Nitride 1.378 Head Diameter, Performance Version W/ 1.0mm Larger Head Diameter
	Exh	1990-98 1990-98	10128A 10128R	1.201 Head Diameter, Nitride 1.221 Head Diameter, Performance Version W/ 0.5mm Larger Head Diameter
Keeper	Both	1990-98	121-1031	1 RD Bead Type
Stem Seal	Both	1990-98	122-1114	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1990-98 1990-98	140-8193 340-1013BR	0.2600 I.D., 1.795 Length, 0.4755 O.D., +2 O/S Available 0.2598 I.D., 1.795 Length, 0.4760 O.D., Optional Bronze Guide
		Exh	1990-98 1990-98	140-8194 340-1014BR	0.2600 I.D., 1.990 Length, 0.4755 O.D., +2 O/S Available 0.2598 I.D., 1.990 Length, 0.4755 O.D., Optional Bronze Guide
Lifter	Both	1990-98	VL135	Hydraulic Lash Adjuster Type
Head Saver Shim		1990-98	230-2001	New Hgt. - 5.1970; Min. Hgt. - 5.1890

28 134 C.I., (2.2L), OHV, GAS, CARB, 8 Valve, ""AMC L-HEAD""
1942-65 L4 134 CID

AMC134-L
BORE - 79.2mm/3.13""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1942-65	SB1625-1	1 ⁵ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1942-65	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1942-65	00122	1.531 Head Diameter, Long Groove
	Exh	1942-65	00121	1.468 Head Diameter, Long Groove
Guide	Int	1942-65	140-1504	0.3750 I.D., 2.750 Length, 0.6580 O.D.
	Exh	1942-65	140-1342	0.3750 I.D., 3.063 Length, 0.6580 O.D.
Spring	Both	1942-65	160-1114	2.533 Length

29 135 C.I., (2.2L), SOHC, GAS, CARB, 8 Valve, Vin 8, B, C, F
1981-87 L4 135 CID

2.2SC-CA
BORE - 87.5mm/3.44""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1981-87	SB1687-51	1 ¹¹ / ₁₆ O.D., 1.390T I.D., 0.3050 Depth
	Exh	1981-87	SB1500-63	1 ¹ / ₂ O.D., 1.210T I.D., 0.3450 Depth
Valve	Int	1981-85 1986-87	01449 01553	1.598 Head Diameter, 1 Groove, 4.419 Overall Length 1.599 Head Diameter, 1 Groove, 4.499 Overall Length
		Exh	1981-85 1986-87	01448 01552	1.394 Head Diameter, 4 Groove, 4.442 Overall Length 1.394 Head Diameter, 4 Groove, 4.522 Overall Length
Keeper	Int	1981-87	121-1011	1 SQ Bead Type
	Exh	1981-87	121-1052	4 RD Bead Type
Stem Seal	Both	1981-87	122-1079	Positive Type, Viton Material, All Rubber Style
Guide	Int	1981-87	140-7429N	0.3145 I.D., 1.575 Length, 0.4937 O.D., W/ Snap Ring, +2 O/S Available
		1981-87	140-7661	0.3145 I.D., 1.575 Length, 0.5020 O.D., W/ Snap Ring
		1981-87	140-8418	0.3125 I.D., 1.575 Length, 0.4937 O.D., W/ Snap Ring, Optional, Same As 140-7429N, Exc. -.002 I.D.

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

135 C.I., (2.2L), SOHC, GAS, CARB, 8 Valve, Vin 8, B, C, F
1981-87 L4 135 CID

2.2SC-CA 29
BORE - 87.5mm/3.44" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Exh	1981-87	140-7451N	0.3145 I.D.,1.693 Length,0.4934 O.D.,W/ Snap Ring,+2 O/S Available
		1981-87	140-7662	0.3145 I.D.,1.693 Length,0.5020 O.D.,W/ Snap Ring
		1981-87	140-8419	0.3125 I.D.,1.693 Length,0.4934 O.D.,W/ Snap Ring,Optional, Same As 140-7451N, Exc. -.002 I.D.
Lifter	Both	1981-87	VL87	Hydraulic Lash Adjuster Type
Rocker Components	Both	1981-87	180-1004	Cam Follower
Head Bolt Set		1981-85	220-1000	Torque To Yield,W/ 10mm Head Bolts, Services Engine
		1985-87	220-1009	Torque To Yield,W/ 11mm Head Bolts, Services Engine
Head Saver Shim		1981-87	230-2003	New Hgt.- 4.1330; Min. Hgt.- 4.1130

135 C.I., (2.2L), SOHC, GAS, FI, 8 Valve, Vin A, C, E, P, ""TURBO""
1984-90 L4 135 CID

2.2SC-T 30
BORE - 87.5mm/3.44"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1984-90	SB1687-51	1 ¹¹ / ₁₆ O.D.,1.390T I.D.,0.3050 Depth
	Exh	1984-90	SB1500-63	1 ¹ / ₂ O.D.,1.210T I.D.,0.3450 Depth
Valve	Int	1986-90	01555	1.598 Head Diameter,Square Groove,4.499 Overall Length
	Exh	1986-90	01554	1.394 Head Diameter,Inconel, 4 Groove,4.523 Overall Length
Keeper	Int	1984-90	121-1011	1 SQ Bead Type
	Exh	1984-90	121-1052	4 RD Bead Type
Stem Seal	Both	1984-90	122-1079	Positive Type,Viton Material,All Rubber Style
Guide	Int	1984-90	140-7429N	0.3145 I.D.,1.575 Length,0.4937 O.D.,W/ Snap Ring,+2 O/S Available
		1984-90	140-7661	0.3145 I.D.,1.575 Length,0.5020 O.D.,W/ Snap Ring
		1984-90	140-8418	0.3125 I.D.,1.575 Length,0.4937 O.D.,W/ Snap Ring,Optional, Same As 140-7429N, Exc. -.002 I.D.
	Exh	1984-90	140-7451N	0.3145 I.D.,1.693 Length,0.4934 O.D.,W/ Snap Ring,+2 O/S Available
		1984-90	140-7662	0.3145 I.D.,1.693 Length,0.5020 O.D.,W/ Snap Ring
		1984-90	140-8419	0.3125 I.D.,1.693 Length,0.4934 O.D.,W/ Snap Ring,Optional, Same As 140-7451N, Exc. -.002 I.D.
Lifter	Both	1984-90	VL87	Hydraulic Lash Adjuster Type
Rocker Components	Both	1984-87	180-1004	Cam Follower
Head Bolt Set		1984-85	220-1000	Torque To Yield,W/ 10mm Head Bolts, Services Engine
		1985-90	220-1009	Torque To Yield,W/ 11mm Head Bolts, Services Engine
Head Saver Shim		1984-90	230-2003	New Hgt.- 4.1330; Min. Hgt.- 4.1130

135 C.I., (2.2L), SOHC, GAS, FI, 8 Valve, Vin D
1984-94 L4 135 CID

2.2-SC-FI 31
BORE - 87.5mm/3.44"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1984-94	SB1687-51	1 ¹¹ / ₁₆ O.D.,1.390T I.D.,0.3050 Depth
	Exh	1984-94	SB1500-63	1 ¹ / ₂ O.D.,1.210T I.D.,0.3450 Depth
Valve	Int	1984-85	01449	1.598 Head Diameter,1 Groove, 4.419 Overall Length
		1986-94	01553	1.599 Head Diameter,1 Groove, 4.499 Overall Length
	Exh	1984-85	01448	1.394 Head Diameter,4 Groove, 4.442 Overall Length
		1986-94	01552	1.394 Head Diameter,4 Groove, 4.522 Overall Length
Keeper	Int	1984-94	121-1011	1 SQ Bead Type
	Exh	1984-94	121-1052	4 RD Bead Type
Stem Seal	Both	1984-94	122-1079	Positive Type,Viton Material,All Rubber Style

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

31 135 C.I., (2.2L), SOHC, GAS, FI, 8 Valve, Vin D 2.2-SC-FI
 (cont.) 1984-94 L4 135 CID BORE - 87.5mm/3.44"

PART	YEARS	PART NO.	NOTES	
Guide	Int	1984-94	140-7429N	0.3145 I.D., 1.575 Length, 0.4937 O.D., W/ Snap Ring, +2 O/S Available
		1984-94	140-7661	0.3145 I.D., 1.575 Length, 0.5020 O.D., W/ Snap Ring
		1984-94	140-8418	0.3125 I.D., 1.575 Length, 0.4937 O.D., W/ Snap Ring, Optional, Same As 140-7429N, Exc. -.002 I.D.
	Exh	1984-94	140-7451N	0.3145 I.D., 1.693 Length, 0.4934 O.D., W/ Snap Ring, +2 O/S Available
		1984-94	140-7662	0.3145 I.D., 1.693 Length, 0.5020 O.D., W/ Snap Ring
		1984-94	140-8419	0.3125 I.D., 1.693 Length, 0.4934 O.D., W/ Snap Ring, Optional, Same As 140-7451N, Exc. -.002 I.D.
Lifter	Both	1984-94	VL87	Hydraulic Lash Adjuster Type
Rocker Components	Both	1984-87	180-1004	Cam Follower
Head Bolt Set		1984-85	220-1000	Torque To Yield, W/ 10mm Head Bolts, Services Engine
		1985-94	220-1009	Torque To Yield, W/ 11mm Head Bolts, Services Engine
Head Saver Shim		1984-94	230-2003	New Hgt. - 4.1330; Min. Hgt. - 4.1130

32 2346cc, (2.3L), SOHC, DIESEL, FI, 8 Valve, Vin 9, J, ""4D55T Mitsubishi TURBO"" CHR4D55T
 1983-85 L4 143 CID BORE - 90.9mm/3.58"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	05/84-85	121-1039	1 RD Bead Type
Stem Seal	Both	1983-85	122-1086	Positive Type, Viton Material, Metal Clad Style

33 2351cc, (2.4L), SOHC, GAS, FI, 8 Valve, Vin G, W, ""G64B Mitsubishi"" CHR-G64B
 1990-93 L4 143 CID BORE - 86.5mm/3.41"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1990-93	SB1875-51	1 $\frac{1}{8}$ O.D., 1.575T I.D., 0.3170 Depth
	Exh	1990-93	SB1625-56	1 $\frac{1}{8}$ O.D., 1.298T I.D., 0.3170 Depth, +10, +30 O/S Available
Valve	Int	1990-93	10143	1.811 Head Diameter
	Exh	1990-93	10144	1.496 Head Diameter
Keeper	Both	1990-93	121-1039	1 RD Bead Type
Stem Seal	Both	1990-93	122-1086	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1990-93	140-7574	0.3150 I.D., 1.848 Length, 0.5143 O.D., +2 O/S Available
	Exh	1990-93	140-7575	0.3150 I.D., 2.046 Length, 0.5145 O.D., W/ Snap Ring, +2 & +6 O/S Available
Spring	Both	1990-93	160-1079	1.960 Length
Lifter	Both	1990-93	VL141	Hydraulic Lash Adjuster Type
Head Saver Shim		1990-93	230-2004	New Hgt. - 3.5430 - 3.5440; Min. Hgt. - 3.5230

34 2351cc, (2.4L), SOHC, GAS, FI, 16 Valve, Vin G, ""4G64 Mitsubishi"" CHR-4G64
 1993-96 L4 143 CID BORE - 86.5mm/3.41"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1993-96	SB1375-62	1 $\frac{1}{8}$ O.D., 1.100T I.D., 0.3000 Depth
	Exh	1993-96	SB1250-59	1 $\frac{1}{4}$ O.D., 0.982 I.D., 0.3290 Depth
Valve	Int	1993-96	10534A	1.299 Head Diameter, Nitride
	Exh	1993-96	10535A	1.142 Head Diameter, Nitride
Keeper	Both	1993-96	121-1096	1 RD Bead Type
Stem Seal	Int	1993-96	122-1252	Positive Type, Viton Material, Metal Clad Style
	Exh	1993-96	122-1253	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1993-96	140-8554	0.2355 I.D., 1.790 Length, 0.4360 O.D.

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

2351cc, (2.4L), SOHC, GAS, FI, 16 Valve, Vin G, ""4G64 Mitsubishi"" **CHR-4G64 34**
1993-96 L4 143 CID **BORE - 86.5mm/3.41"" (cont.)**

PART	YEARS	PART NO.	NOTES
Guide	Exh 1993-96	140-8571	0.2360 I.D.,1.990 Length,0.4360 O.D.
Lifter	Both 1993-96	VL141	Hydraulic Lash Adjuster Type

2351cc, (2.4L), SOHC, GAS, FI, 16 Valve, Vin G, ""4G64 Mitsubishi"" **CHR2.4-SC 35**
2001-05 L4 143 CID **BORE - 86.5mm/3.41""**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 2001-05 Exh 2001-05	SB1375-62 SB1250-59	1 $\frac{3}{8}$ O.D.,1.100T I.D.,0.3000 Depth 1 $\frac{1}{4}$ O.D.,0.982 I.D.,0.3290 Depth
Valve	Int 2001-05 Exh 2001-05	10534A 10535A	1.299 Head Diameter,Nitride 1.142 Head Diameter,Nitride
Keeper	Both 2001-05	121-1096	1 RD Bead Type
Stem Seal	Both 2001-05	122-1252	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2001-05 Exh 2001-05	140-8554 140-8571	0.2355 I.D.,1.790 Length,0.4360 O.D. 0.2360 I.D.,1.990 Length,0.4360 O.D.
Lifter	Both 2001-05	VL141	Hydraulic Lash Adjuster Type
Head Saver Shim	2001-05	230-2149	New Hgt. 4.720-4.730; Min Hgt. 4.712

144 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin F, ""SRT-4 TURBO"" **CHR2.4-SRT 36**
2008-09 L4 144 CID **BORE - 88mm/3.46""**

PART	YEARS	PART NO.	NOTES
Valve	Int 2008-09	13190	1.378 Head Diameter
Keeper	Both 2008-09	121-1060	1 RD Bead Type
Stem Seal	Both 2008-09	122-1440	Positive Type,Viton Material,Top Hat Style
Guide	Both 2008-09	140-3154	0.2168 I.D.,1.740 Length,0.4358 O.D.

144 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin B, J, K, W, ED3, EDG, ""GEMA"" **CHR2.4-GEMA 37**
2008-20 L4 144 CID **BORE - 88mm/3.46""**

PART	YEARS	PART NO.	NOTES
Valve	Int 2008-20 Exh 2008-20	13190 13191	1.378 Head Diameter 1.142 Head Diameter
Keeper	Both 2008-20	121-1060	1 RD Bead Type
Stem Seal	Both 2008-20	122-1440	Positive Type,Viton Material,Top Hat Style
Guide	Both 2008-20	140-3154	0.2168 I.D.,1.740 Length,0.4358 O.D.

144 C.I., (2.4L), SOHC, FLEX, GAS, FI, 16 Valve, Vin B, T, ED6, ED8 **CHR2.4-ED6_8 38**
2013-21 L4 144 CID **BORE - 88mm/3.46""**

PART	YEARS	PART NO.	NOTES
Valve	Int 2013-18 Exh 2013-20	13401 13402	1.417 Head Diameter 1.142 Head Diameter
Keeper	Both 2013-20	121-1140	3 RD Bead Type
Stem Seal	Both 2013-20	122-1467	Positive Type,Viton Material,Top Hat Style
Spring	Int 2013-16 2014-20 Exh 2013-20	160-1680 160-1681 160-1682	1.768 Length,W/ Green Stripe,NOTE: Dart 2013-16; Cherokee Up To 2/28/14 1.680 Length,W/ Orange Stripe,NOTE: Cherokee From 3/1/14 1.834 Length
Lifter	Both 2013-20	VL561	Hydraulic Lash Adjuster Type

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

39 144 C.I., (2.4L), SOHC, GAS, FI, 16 Valve, Vin B, EDD, ""Tigershark"" CHR2.4-EDD
 2017-21 L4 144 CID BORE - 88mm/3.46""

PART		YEARS	PART NO.	NOTES
Valve	Int	2017-17	13190	1.378 Head Diameter, Latitude, Sport Only
		2017-19	13401	1.417 Head Diameter
	Exh	2017-17	13191	1.142 Head Diameter, Latitude, Sport Only
		2017-19	13402	1.142 Head Diameter
Keeper	Both	2017-17	121-1060	1 RD Bead Type, Latitude, Sport Only
		2017-20	121-1140	3 RD Bead Type
Stem Seal	Both	2017-17	122-1440	Positive Type, Viton Material, Top Hat Style, Latitude, Sport Only
		2017-20	122-1467	Positive Type, Viton Material, Top Hat Style
Spring	Int	2017-20	160-1681	1.680 Length, W/ Orange Stripe
	Exh	2017-20	160-1682	1.834 Length
Lifter	Both	2017-20	VL561	Hydraulic Lash Adjuster Type, Except 2017 Latitude, Sport

40 148 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin 9, B, J, X, EDZ CHR2.4-EDZ
 1995-10 L4 148 CID BORE - 87.5mm/3.44""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1995-10	SB1500-77	1½ O.D., 1.175T I.D., 0.2360 Depth
	Exh	1995-99	SB1375-64	1¾ O.D., 1.000 I.D., 0.2800 Depth
		2000-10	SB1250-63	1¼ O.D., 0.930 I.D., 0.3250 Depth
Valve	Int	1995-99	01730	1.370 Head Diameter, 1 Groove
		2000-10	02008	1.370 Head Diameter, 3 Groove
	Exh	1995-99	01731	1.201 Head Diameter, 1 Groove
		2000-10	02009	1.120 Head Diameter, 3 Groove
Keeper	Both	1995-99	121-1086	1 RD Bead Type
		2000-10	121-1087	3 RD Bead Type
Stem Seal	Both	1995-10	122-1251	Positive Type, Viton Material, Top Hat Style
Guide	Both	1995-10	140-8556	0.2355 I.D., 1.735 Length, 0.4360 O.D., +2 O/S Available
Spring	Both	1995-10	160-1426	1.933 Length
Lifter	Both	1995-10	VL173	Hydraulic Lash Adjuster Type
Rocker Components	Both	1995-10	180-1324	Roller Cam Follower
Head Bolt Set		1995-06	220-1083	Torque To Yield, 1 Required
Head Saver Shim		1995-01	230-2095	New Hgt. - 5.411 - 5.419; Min. Hgt. 5.403; NOTE: Except 2001 PT Cruiser
		2001-01	230-2160	PT CRUISER ONLY
		2002-10	230-2120	New Hgt. - 5.411 - 5.419; Min Hgt. 5.403; W/ Ovate Coolant Passages

41 148 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin 1, ""Power-Tech"" CHR2.4DC-TRU
 2002-06 L4 148 CID BORE - 87.5mm/3.44""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2002-06	SB1500-77	1½ O.D., 1.175T I.D., 0.2360 Depth
Valve	Int	2002-06	02008	1.370 Head Diameter, 3 Groove
	Exh	2002-06	02009	1.120 Head Diameter, 3 Groove
Keeper	Both	2002-06	121-1087	3 RD Bead Type
Stem Seal	Both	2002-06	122-1251	Positive Type, Viton Material, Top Hat Style
Guide	Both	2002-06	140-8556	0.2355 I.D., 1.735 Length, 0.4360 O.D.
Spring	Both	2002-06	160-1426	1.933 Length
Lifter	Both	2002-06	VL173	Hydraulic Lash Adjuster Type
Rocker Components	Both	2002-06	180-1324	Roller Cam Follower

(Cont'd) CHRYSLER / PASSENGER CAR OR TRUCK

148 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin 1, ""Power-Tech"" **CHR2.4DC-TRU 41**
 2002-06 L4 148 CID **BORE - 87.5mm/3.44"" (cont.)**

PART	YEARS	PART NO.	NOTES
Head Saver Shim	2002-06	230-2120	New Hgt. - 5.411 - 5.419; Min Hgt. 5.403; W/ Ovate Coolant Passages

148 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin 8, E, G, S, EDV, EDT, ""TURBO"" **CHR2.4DCT 42**
 2003-09 L4 148 CID **BORE - 87.5mm/3.44""**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 2003-09	SB1500-77	1½ O.D., 1.175T I.D., 0.2360 Depth
Valve	Int 2003-09	02034	1.370 Head Diameter
	Exh 2003-09	02035	1.120 Head Diameter, Inconel
Keeper	Both 2003-09	121-1087	3 RD Bead Type
Stem Seal	Both 2003-09	122-1251	Positive Type, Viton Material, Top Hat Style
Guide	Both 2003-09	140-8556	0.2355 I.D., 1.735 Length, 0.4360 O.D., +2 O/S Available
Spring	Both 2003-09	160-1426	1.933 Length
Lifter	Both 2003-09	VL173	Hydraulic Lash Adjuster Type
Head Bolt Set	2003-09	220-1083	Torque To Yield, 1 Required
Head Saver Shim	2003-09	230-2120	New Hgt. - 5.411 - 5.419; Min Hgt. 5.403; W/ Ovate Coolant Passages

150 C.I., (2.5L), OHV, GAS, CARB, FI, 8 Valve, Vin E, H, P, U, ""AMC"" **AMC150 43**
 1983-02 L4 150 CID **BORE - 98.5mm/3.88""**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int 1983-02	SB2000-1	2.000 O.D., 1¾ I.D., 7/32 Depth, Also Available In Non-Magnetic (N) Material	
	Exh 1983-02	SB1562-36	1⅞ O.D., 1⅝ I.D., 3/16 Depth, Also Available In Non-Magnetic (N) Material	
Valve	Int 1983-90	01479	1.910 Head Diameter, Square Groove, 1 Square Groove	
	1983-99	01557	1.910 Head Diameter, 1 Round Groove, 1 Round Groove. +15 O/S Stem Available	
	Exh	2000-02	01916	1.910 Head Diameter, 3 Groove, +15 O/S Stem Available
		1983-90	01478	1.500 Head Diameter, Square Groove, 1 Square Groove
		1983-99	01556	1.500 Head Diameter, 1 Round Groove, 1 Round Groove, +15 O/S Stem Available
		2000-02	01917	1.500 Head Diameter, 3 Groove, +15 O/S Stem Available
Keeper	Both 1983-90	121-1011	1 SQ Bead Type	
	1983-99	121-1021	1 RD Bead Type	
	2000-02	121-1083	3 RD Bead Type	
Stem Seal	Int 1983-02	122-1052	Positive Type, Viton Material, Ring & Band Style, Optional Aftermarket Version; Use W/ .502 O.D. Guide (140-9848)	
	1983-02	122-1204	Positive Type, Viton Material, Metal Clad Style, OEM Version; Use W/ Guide (140-7847); Black	
	Exh 1983-02	122-1053	Positive Type, Viton Material, Ring & Band Style, Black Color Seal, Optional Aftermarket Version; Use W/ .502 O.D. Guide (140-9848)	
	1983-02	122-1205	Positive Type, Viton Material, Metal Clad Style, OEM Version; Use W/ Guide (140-8494); Brown	
Guide	Int 1983-02	140-7847	0.3135 I.D., 2.250 Length, 0.5020 O.D., W/ .534 Seal Boss	
	Exh 1983-02	140-8494	0.3135 I.D., 2.435 Length, 0.5020 O.D., W/ .534 Seal Boss	
	Both 1983-98	140-9848	0.3135 I.D., 2.438 Length, 0.5020 O.D., Optional Conversion Guide	
Spring	Both 1988-95	160-1378	1.967 Length, Conical, Use W/ Round Groove Valves	
	1996-02	160-1483	1.930 Length, Conical	

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

43 150 C.I., (2.5L), OHV, GAS, CARB, FI, 8 Valve, Vin E, H, P, U, ""AMC"" AMC150
 (cont.) 1983-02 L4 150 CID BORE - 98.5mm/3.88""

PART	YEARS	PART NO.	NOTES
Lifter	Both	1983-02 VL89	Hydraulic Type
Rocker Components	Both	1983-02 1983-02 1983-02 1983-02	180-1236 181-1037 183-1014 183-1028
			Rocker Arm Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge Fulcrum, Short Bridge, When Replacing, Fulcrum # 183-1014 Must Also Be Used
Push Rod	Both	1983-02	190-1455
			9.485 Length
Head Bolt Set		1997-02	220-1075
			Torque To Yield, 1 Required
Head Saver Shim		1983-02	230-2192
			New Hgt. - 3.500; Min. Hgt. - N/A

44 151 C.I., (2.5L), OHV, GAS, CARB, 8 Valve, Vin B, ""GM"" AMC151
 1980-83 L4 151 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1980-83	SB1812-4
	Exh	1980-83	SB1625-1
			1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1 ⁵ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Exh	1980-83	01814
			1.500 Head Diameter, 0.020 Shorter Than OEM, Square Groove
Keeper	Both	1980-83	121-1003
			1 SQ Bead Type
Stem Seal	Both	1980-83 1980-83 1980-83 1980-83	122-1037 122-1043 122-1047 122-1270
			Umbrella Type, Poly Material, Umbrella Style O-Ring Type, Nitrile Material, O-Ring Style Positive Type, Poly Material, 2-Ring Style Umbrella Type, Viton Material, Umbrella Style
Guide	Both	1980-83 1980-83	140-5607 140-9607
			0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2) 0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1980-83	160-1125
			2.050 Length, W/ Damper
Lifter	Both	1980-83 1980-83	VL117RH VL73
			Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train. Hydraulic Type
Rocker Components	Both	1980-83 1980-83	181-1017 184-1038
			Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball Nut, ³ / ₈
Push Rod	Both	1982-83	192-1453
			8.975 Length
Head Saver Shim		1980-83	230-2024
			New Hgt. - 3.2500

45 2497cc, (2.5L), SOHC, GAS, FI, 24 Valve, Vin H, N, ""6G73 Mitsubishi"" CHR6G73
 1995-00 V6 152 CID BORE - 83.5mm/3.29""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1995-00	SB1375-62
	Exh	1995-00	SB1250-59
			1 ³ / ₈ O.D., 1.100T I.D., 0.3000 Depth 1 ¹ / ₄ O.D., 0.982 I.D., 0.3290 Depth
Valve	Int	1995-00	10534A
	Exh	1995-00	10535A
			1.299 Head Diameter, Nitride 1.142 Head Diameter, Nitride
Keeper	Both	1995-00	121-1096
			1 RD Bead Type
Stem Seal	Int	1995-00	122-1252
	Exh	1995-00	122-1253
			Positive Type, Viton Material, Metal Clad Style Positive Type, Viton Material, Metal Clad Style

(Cont'd) CHRYSLER / PASSENGER CAR OR TRUCK

2497cc, (2.5L), SOHC, GAS, FI, 24 Valve, Vin H, N, ""6G73 Mitsubishi"" **CHR6G73 45**
 1995-00 V6 152 CID **BORE - 83.5mm/3.29"" (cont.)**

PART	YEARS	PART NO.	NOTES	
Guide	Int	1995-00	140-8554	0.2355 I.D.,1.790 Length,0.4360 O.D.
	Exh	1995-00	140-8569	0.2360 I.D.,1.990 Length,0.4360 O.D.,W/ Snap Ring
Lifter	Both	1995-00	VL141	Hydraulic Lash Adjuster Type
Head Saver Shim		1995-00	230-2105	New Hgt.- 4.725; Min. Hgt. 4.717

153 C.I., (2.5L), SOHC, GAS, FI, 8 Valve, Vin K **2.5K 46**
 1986-95 L4 153 CID **BORE - 87.4mm/3.44""**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1986-95	SB1687-51	1 ¹¹ / ₁₆ O.D.,1.390T I.D.,0.3050 Depth
	Exh	1986-95	SB1500-63	1 ¹ / ₂ O.D.,1.210T I.D.,0.3450 Depth
Valve	Int	1986-95	01553	1.599 Head Diameter
	Exh	1986-95	01552	1.394 Head Diameter
Keeper	Int	1986-95	121-1011	1 SQ Bead Type
	Exh	1986-95	121-1052	4 RD Bead Type
Stem Seal	Int	1986-95	122-1052	Positive Type,Viton Material,Ring & Band Style
	Exh	1986-95	122-1053	Positive Type,Viton Material,Ring & Band Style,Black Color Seal
Guide	Int	1986-95	140-7429N	0.3145 I.D.,1.575 Length,0.4937 O.D.,W/ Snap Ring,+2 O/S Available
		1986-95	140-7661	0.3145 I.D.,1.575 Length,0.5020 O.D.,W/ Snap Ring
		1986-95	140-8418	0.3125 I.D.,1.575 Length,0.4937 O.D.,W/ Snap Ring,Optional, Same As 140-7429N, Exc. -.002 I.D.
	Exh	1986-95	140-7451N	0.3145 I.D.,1.693 Length,0.4934 O.D.,W/ Snap Ring,+2 O/S Available
		1986-95	140-7662	0.3145 I.D.,1.693 Length,0.5020 O.D.,W/ Snap Ring
		1986-95	140-8419	0.3125 I.D.,1.693 Length,0.4934 O.D.,W/ Snap Ring,Optional, Same As 140-7451N, Exc. -.002 I.D.
Lifter	Both	1986-95	VL87	Hydraulic Lash Adjuster Type
Rocker Components	Both	1986-87	180-1004	Cam Follower
Head Bolt Set		1986-95	220-1009	Torque To Yield,Services Engine
Head Saver Shim		1986-95	230-2003	New Hgt.- 4.1330; Min. Hgt.- 4.1130

153 C.I., (2.5L), SOHC, GAS, FI, 8 Valve, Vin J, ""TURBO"" **2.5-J 47**
 1989-92 L4 153 CID **BORE - 87.4mm/3.44""**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1989-92	SB1687-51	1 ¹¹ / ₁₆ O.D.,1.390T I.D.,0.3050 Depth
	Exh	1989-92	SB1500-63	1 ¹ / ₂ O.D.,1.210T I.D.,0.3450 Depth
Valve	Int	1989-92	01555	1.598 Head Diameter,Square Groove
	Exh	1989-92	01554	1.394 Head Diameter,Inconel, 4 Groove
Keeper	Int	1989-92	121-1011	1 SQ Bead Type
	Exh	1989-92	121-1052	4 RD Bead Type
Stem Seal	Both	1989-92	122-1079	Positive Type,Viton Material,All Rubber Style
Guide	Int	1989-92	140-7429N	0.3145 I.D.,1.575 Length,0.4937 O.D.,W/ Snap Ring,+2 O/S Available
		1989-92	140-7661	0.3145 I.D.,1.575 Length,0.5020 O.D.,W/ Snap Ring
		1989-92	140-8418	0.3125 I.D.,1.575 Length,0.4937 O.D.,W/ Snap Ring,Optional, Same As 140-7429N, Exc. -.002 I.D.
	Exh	1989-92	140-7451N	0.3145 I.D.,1.693 Length,0.4934 O.D.,W/ Snap Ring,+2 O/S Available
		1989-92	140-7662	0.3145 I.D.,1.693 Length,0.5020 O.D.,W/ Snap Ring

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

47 153 C.I., (2.5L), SOHC, GAS, FI, 8 Valve, Vin J, ""TURBO"" 2.5-J
 (cont.) 1989-92 L4 153 CID BORE - 87.4mm/3.44""

PART	YEARS	PART NO.	NOTES	
Guide	Exh	1989-92	140-8419	0.3125 I.D., 1.693 Length, 0.4934 O.D., W/ Snap Ring, Optional, Same As 140-7451N, Exc. -.002 I.D.
Lifter	Both	1989-92	VL87	Hydraulic Lash Adjuster Type
Head Bolt Set		1989-92	220-1009	Torque To Yield, Services Engine
Head Saver Shim		1989-92	230-2003	New Hgt.- 4.1330; Min. Hgt.- 4.1130

48 2555cc, (2.6L), SOHC, GAS, CARB, 8 Valve, Vin 7, D, E, F, G, W, ""G54B Mitsubishi"" CHRG54B
 1978-89 L4 156 CID BORE - 91.1mm/3.59""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1978-80	SB1750-61	1¼ O.D., 1.445T I.D., 0.3100 Depth, W/ 1.689 Valve Head Dia.
	Exh	1981-89	SB1875-51	1⅞ O.D., 1.575T I.D., 0.3170 Depth, W/ 1.810 Valve Head Dia.
		1978-80	SB1500-62	1½ O.D., 1.220T I.D., 0.3100 Depth, W/ 1.376 Valve Head Dia.
		1981-89	SB1625-56	1⅝ O.D., 1.298T I.D., 0.3170 Depth, +10, +30 O/S Available, W/ 1.495 & 1.493 Valve Head Dia.
Valve	Int	05/84-89	10145	1.810 Head Diameter, Round Groove
	Exh	1978-80	10065	1.689 Head Diameter, Square Groove
		05/84-89	10146	1.493 Head Diameter, Round Groove, Optional Non-Stellite
		05/84-89	10146S	1.493 Head Diameter, Stellite Face, Round Groove
		1978-80	10064	1.376 Head Diameter, Square Groove
Keeper	Both	05/84-89	121-1039	1 RD Bead Type
		1978-04/84	121-1034	1 SQ Bead Type
Stem Seal	Both	1978-89	122-1086	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1978-89	140-7574	0.3150 I.D., 1.848 Length, 0.5143 O.D., +2 O/S Available
	Exh	1978-89	140-7575	0.3150 I.D., 2.046 Length, 0.5145 O.D., W/ Snap Ring, +2 & +6 O/S Available
Spring	Both	05/84-89	160-1079	1.960 Length
		1981-04/84	160-1031	1.875 Length
Lifter	Both	05/84-89	VL141	Hydraulic Lash Adjuster Type
Head Saver Shim		1981-89	230-2005	New Hgt.- 3.5430; Min. Hgt.- 3.5230

49 2555cc, (2.6L), SOHC, GAS, FI, 8 Valve, Vin H, N, ""G54B Mitsubishi TURBO"" CHRG54BT
 1984-89 L4 156 CID BORE - 91.1mm/3.59""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1984-89	SB1875-51	1⅞ O.D., 1.575T I.D., 0.3170 Depth
	Exh	1984-89	SB1625-56	1⅝ O.D., 1.298T I.D., 0.3170 Depth, +10, +30 O/S Available
Valve	Int	1984-89	10145	1.810 Head Diameter, Round Groove
	Exh	1984-89	10146S	1.493 Head Diameter, Stellite Face, Round Groove, Except Intercooled Turbo
Keeper	Both	1984-89	121-1039	1 RD Bead Type
Stem Seal	Both	1984-89	122-1086	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1984-89	140-7574	0.3150 I.D., 1.848 Length, 0.5143 O.D., +2 O/S Available
	Exh	1984-89	140-7575	0.3150 I.D., 2.046 Length, 0.5145 O.D., W/ Snap Ring, +2 & +6 O/S Available
Spring	Both	1984-89	160-1079	1.960 Length
Lifter	Both	1984-89	VL141	Hydraulic Lash Adjuster Type
Head Saver Shim		1984-89	230-2005	New Hgt.- 3.5430; Min. Hgt.- 3.5230

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

161 C.I., (2.6L), OHV, GAS, CARB, 12 Valve, ""Willys F-HEAD"" 161F **50**
1952-55 L6 161 CID BORE - 79.4mm/3.13""

PART	YEARS	PART NO.	NOTES
Guide	Both 1952-55	140-1639	0.3435 I.D.,2.500 Length,0.6570 O.D.

167 C.I., (2.7L), DOHC, FLEX, GAS, FI, 24 Valve, Vin D, R, T, U, EER CHR2.7-EER **51**
1998-10 V6 167 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES
Valve	Int 1998-10 Exh 1998-10	01920 01921	1.331 Head Diameter,Includes Flex-Fuel 1.094 Head Diameter,Includes Flex-Fuel
Keeper	Both 1998-10	121-1082	3 RD Bead Type
Stem Seal	Both 1998-10	122-1327	Positive Type,Viton Material,Top Hat Style
Guide	Both 1998-10	140-3019	0.2358 I.D.,1.615 Length,0.4355 O.D.
Spring	Both 1998-10	160-1352	1.800 Length
Lifter	Both 1998-10	VL171	Hydraulic Lash Adjuster Type
Rocker Components	Both 1998-10	180-1322	Roller Cam Follower
Head Bolt Set	1998-10	220-1077	Torque To Yield,2 Required
Head Saver Shim	1998-10 1998-10	230-2126L 230-2126R	Left,New Hgt. 4.491-4.494, Min. Hgt. N/A Right,New Hgt. 4.491-4.494, Min. Hgt. N/A

2705cc, (2.7L), DOHC, DIESEL, FI, 20 Valve, Vin 1, 2, 4, ""OM612/OM647 Mercedes TURBO"" CHR2.7TD **52**
2003-06 L5 165 CID BORE - 87.9mm/3.46""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 2003-03 2004-06 Exh 2003-03 2004-06	SB1218E-1 SB1160E-1 SB1175E-1 SB1088E-1	1.218 O.D.,1.020T I.D.,0.2210 Depth,OM612 1.160 O.D.,0.960T I.D.,0.2210 Depth,OM647 1.175 O.D.,0.945T I.D.,0.2210 Depth,OM612 1.088 O.D.,0.890T I.D.,0.2210 Depth,OM647
Valve	Int 2003-03 2004-06 Exh 2003-03 2004-06	02234 13073 02235 13074	1.189 Head Diameter,OM612 1.130 Head Diameter,OM647 1.120 Head Diameter,OM612 1.032 Head Diameter,OM647
Stem Seal	Both 2003-06	122-1360	Positive Type,Viton Material,Metal Clad Style
Guide	Both 2003-06	140-3098	0.2755 I.D.,1.478 Length,0.4955 O.D.
Spring	Int 2003-06 Exh 2003-06	160-1528 160-1529	1.831 Length,Conical 1.893 Length,Conical

170 C.I., (2.8L), OHV, GAS, CARB, 12 Valve CHR170 **53**
1960-69 L6 170 CID BORE - 86.5mm/3.41""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1960-69 Exh 1960-69	SB1750-2 SB1437-1	1¾ O.D.,1½ I.D.,¾ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.680 Valve Head Dia. 1⅞ O.D.,1¼ I.D.,¾ Depth
Valve	Int 1960-69 Exh 1960-69	00567 01265	1.620 Head Diameter,2 Groove,+15 O/S Stem Available 1.360 Head Diameter,4 Groove
Keeper	Int 1960-69 Exh 1960-69	121-1000 121-1014	2 RD Bead Type 4 RD Bead Type
Stem Seal	Both 1960-69	122-1063	Positive Type,Viton Material,All Rubber Style
Guide	Int 1960-69 1960-69	140-6113 140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide 0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

53 170 C.I., (2.8L), OHV, GAS, CARB, 12 Valve CHR170
 (cont.) 1960-69 L6 170 CID BORE - 86.5mm/3.41"

PART	YEARS	PART NO.	NOTES
Guide	Exh	1960-69	140-6108 0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1960-69	
Spring	Both	1960-69	160-1122 2.000 Length,W/O Rotator
Lifter	Both	1960-69	VL31 Mechanical High Performance Type

54 173 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, Vin W, ""GM"" AMC173
 1984-86 V6 173 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1984-86	SB1687-2 1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1984-86		SB1437-3 1^{7}/_{16} O.D.,1^{3}/_{16} I.D.,^{7}/_{32} Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1984-86	01395 1.600 Head Diameter
	Exh	1984-86	01394 1.307 Head Diameter
Keeper	Both	1984-86	121-1003 1 SQ Bead Type
Stem Seal	Both	1984-86	122-1075 Positive Type,Viton Material, Ring & Band Style
Guide	Both	1984-86	140-9560 0.3440 I.D.,2.000 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Lifter	Both	1984-86	VL94 Hydraulic Type
Rocker Components	Both	1984-86	181-1016 Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 10mm Nut
		1984-86	183-1015 Smooth Ball, 10mm,Use W/ Metric Threaded Rocker Arm Stud
		1984-86	184-1025 Stud, 10mm,Adjustable
		1984-86	184-1032 Nut, 10mm,Adjustable
Push Rod	Both	1984-86	192-1444 6.162 Length
Head Saver Shim		1984-86	230-2025 New Hgt.- 3.5805 - 3.5950; Min. Hgt.- 3.5750, 2 Required

55 2972cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin 3, H, S, ""6G72 Mitsubishi"" CHR6G72-SC12V
 1987-00 V6 181 CID BORE - 91.1mm/3.59"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1987-00	SB1750-61 1 ³ / ₄ O.D.,1.445T I.D.,0.3100 Depth	
	Exh	1987-00		SB1562-69 1 ⁹ / ₁₆ O.D.,1.219 I.D.,0.3170 Depth,Also Available In Non-Magnetic (N) Material
		1987-00		SB1562-69N 1 ⁹ / ₁₆ O.D.,1.219 I.D.,0.3170 Depth,Optional LPG
Valve	Int	1987-00	10147 1.693 Head Diameter,0.030 Shorter Than OEM	
		1987-00	10624 1.693 Head Diameter,OEM Length	
	Exh	1987-00	10148 1.378 Head Diameter,0.030 Shorter Than OEM	
		1987-00	10625 1.378 Head Diameter,OEM Length	
Keeper	Both	1987-00	121-1039 1 RD Bead Type	
Stem Seal	Both	1987-00	122-1086 Positive Type,Viton Material,Metal Clad Style	
Guide	Int	1987-00	140-7576 0.3150 I.D.,1.735 Length,0.5145 O.D.	
	Exh	1987-00		140-7577 0.3150 I.D.,1.890 Length,0.5143 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both	1987-00	160-1079 1.960 Length	
Lifter	Both	1987-00	VL141 Hydraulic Lash Adjuster Type	

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

2972cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin 3, H, S, ""6G72 Mitsubishi"" **55**
1987-00 V6 181 CID **CHR6G72-SC12V (cont.)**
BORE - 91.1mm/3.59""

PART	YEARS	PART NO.	NOTES
Rocker Components	Both	1987-00 180-1207	Roller Rocker Arm
Head Bolt Set	1987-00	220-1021	Torque To Yield,Services Engine
Head Saver Shim	1987-00	230-2006	New Hgt.- 3.3030 - 3.3110; Min. Hgt.- 3.2950, 2 Required

2972cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin U, ""Renault"" **56**
1988-92 V6 182 CID **CHR3.0-REN**
BORE - 93mm/3.66""

PART	YEARS	PART NO.	NOTES
Keeper	Both	1988-92 121-1034	1 SQ Bead Type

2972cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin B, J, ""6G72 Mitsubishi"" **57**
1991-96 V6 181 CID **CHR6G72-DC**
BORE - 91.1mm/3.59""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1991-96 SB1437-59	17/16 O.D.,1.180T I.D.,0.3050 Depth
	Exh	1991-96 SB1312-64	15/16 O.D.,1.045 I.D.,0.3160 Depth
Valve	Int	1991-96 10500	1.375 Head Diameter
	Exh	1991-96 10501	1.200 Head Diameter
Keeper	Both	1991-96 121-1031	1 RD Bead Type
Stem Seal	Both	1991-96 122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1991-96 140-8193	0.2600 I.D.,1.795 Length,0.4755 O.D.,+2 O/S Available
		1991-96 340-1013BR	0.2598 I.D.,1.795 Length,0.4760 O.D.,Optional Bronze Guide
	Exh	1991-96 140-8194	0.2600 I.D.,1.990 Length,0.4755 O.D.,+2 O/S Available
		1991-96 340-1014BR	0.2598 I.D.,1.990 Length,0.4755 O.D.,Optional Bronze Guide
Lifter	Both	1991-96 VL135	Hydraulic Lash Adjuster Type
Head Bolt Set		1991-96 220-1021	Torque To Yield,Services Engine
Head Saver Shim		1991-96 230-2007	New Hgt.- 5.1968; Min. Hgt.- 5.1888, 2 Required

2972cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin C, K, ""6G72 Mitsubishi TURBO "" **58**
1991-96 V6 181 CID **CHR6G72-DCT**
BORE - 91.1mm/3.59""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1991-96 SB1437-59	17/16 O.D.,1.180T I.D.,0.3050 Depth
	Exh	1991-96 SB1312-64	15/16 O.D.,1.045 I.D.,0.3160 Depth
Valve	Int	1991-96 10500	1.375 Head Diameter
	Exh	1991-96 10501	1.200 Head Diameter
Keeper	Both	1991-96 121-1031	1 RD Bead Type
Stem Seal	Both	1991-96 122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1991-96 140-8193	0.2600 I.D.,1.795 Length,0.4755 O.D.,+2 O/S Available
		1991-96 340-1013BR	0.2598 I.D.,1.795 Length,0.4760 O.D.,Optional Bronze Guide
	Exh	1991-96 140-8194	0.2600 I.D.,1.990 Length,0.4755 O.D.,+2 O/S Available
		1991-96 340-1014BR	0.2598 I.D.,1.990 Length,0.4755 O.D.,Optional Bronze Guide
Lifter	Both	1991-96 VL135	Hydraulic Lash Adjuster Type
Head Bolt Set		1991-96 220-1021	Torque To Yield,Services Engine
Head Saver Shim		1991-96 230-2007	New Hgt.- 5.2000 - 5.2100; Min. Hgt.- 5.1888, 2 Required

2972cc, (3.0L), SOHC, GAS, FI, 24 Valve, Vin H, ""6G72 Mitsubishi"" **59**
2001-05 V6 181 CID **CHR6G72-SC24V**
BORE - 91.1mm/3.59""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2001-05 SB1375-62	13/8 O.D.,1.100T I.D.,0.3000 Depth
	Exh	2001-05 SB1250-59	11/4 O.D.,0.982 I.D.,0.3290 Depth

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

59 2972cc, (3.0L), SOHC, GAS, FI, 24 Valve, Vin H, ""6G72 Mitsubishi"" CHR6G72-SC24V
(cont.) 2001-05 V6 181 CID BORE - 91.1mm/3.59""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2001-05	10534A	1.299 Head Diameter,Nitride
	Exh	2001-05	10535A	1.142 Head Diameter,Nitride
Keeper	Both	2001-05	121-1096	1 RD Bead Type
Stem Seal	Int	2001-05	122-1252	Positive Type,Viton Material,Metal Clad Style
	Exh	2001-05	122-1253	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2001-05	140-8554	0.2355 I.D.,1.790 Length,0.4360 O.D.
	Exh	2001-05	140-8571	0.2360 I.D.,1.990 Length,0.4360 O.D.
Lifter	Both	2001-05	VL141	Hydraulic Lash Adjuster Type

60 2987cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, Vin 5, M, EXM, ""OM642 Mercedes TURBO"" CHR3.0-TD24V
2007-09 V6 182 CID BORE - 83mm/3.27""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2007-09	13356	1.122 Head Diameter
	Exh	2007-09	13357	1.000 Head Diameter
Keeper	Both	2007-09	121-1098	3 RD Bead Type
Stem Seal	Both	2007-09	122-1456	Positive Type,Viton Material,Metal Clad Style
Spring	Int	2007-09	160-1639	1.830 Length
	Exh	2007-09	160-1640	1.835 Length
Lifter	Both	2007-09	VL561	Hydraulic Lash Adjuster Type

61 2998cc, (3.0L), DOHC, DIESEL, FI, 16 Valve, Vin D, EXG, ""FIAT/IVECO"" 3.0TD-EXG
2014-18 L4 183 CID BORE - 95.8mm/3.77""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2014-18	121-1098	3 RD Bead Type

62 196 C.I., (3.2L), OHV, GAS, CARB, 12 Valve, Vin B, C AMC196-OHV
1958-65 L6 196 CID BORE - 79.37mm/3.125""

PART	YEARS	PART NO.	NOTES	
Guide	Int	1957-65	140-6867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Aluminum Castings
		1957-65	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Aluminum Castings
	Exh	1961-62	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,Aluminum Castings, -5 U/S I.D. Available (140-5606U) NOTE: W/ Single Groove Valve
		1961-62	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Aluminum Castings, -5 U/S I.D. Available (140-9606U) NOTE: W/ Single Groove Valve
		1962-64	140-7459	0.3430 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,Aluminum Castings, W/ 4 Groove Valve
		1962-64	140-9459	0.3430 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Aluminum Castings, W/ 4 Groove Valve

63 197 C.I., (3.2L), SOHC, GAS, FI, 24 Valve, Vin J CHR3.2
1998-01 V6 197 CID BORE - 92mm/3.62""

PART	YEARS	PART NO.	NOTES	
Valve	Int	1998-01	01901	1.437 Head Diameter
	Exh	1998-01	01713	1.142 Head Diameter
Keeper	Both	1998-01	121-1093	3 RD Bead Type
Stem Seal	Both	1998-01	122-1254	Positive Type,Viton Material,Top Hat Style
Guide	Int	1998-01	140-8548	0.2750 I.D.,2.040 Length,0.4545 O.D.
	Exh	1998-01	140-8547	0.2750 I.D.,2.160 Length,0.4545 O.D.

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

197 C.I., (3.2L), SOHC, GAS, FI, 24 Valve, Vin J
1998-01 V6 197 CID

CHR3.2 **63**
BORE - 92mm/3.62"" (cont.)

PART	YEARS	PART NO.	NOTES
Head Bolt Set	1998-01	220-1086	Torque To Yield,Torque To Yield, 2 Req.

198 C.I., (3.2L), OHV, GAS, CARB, 12 Valve, Vin A, B
1970-74 L6 198 CID

CHR198 **64**
BORE - 86.5mm/3.41""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1970-74	SB1750-2 3/4 O.D., 1 1/2 I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia.	
	Exh	1970-74		SB1437-1 1 7/16 O.D., 1 1/4 I.D., 7/32 Depth
Valve	Int	1970-74	1.620 Head Diameter, 2 Groove, +15 O/S Stem Available 1.360 Head Diameter, 4 Groove	
	Exh	1970-74		00567 01265
Keeper	Int	1970-74	2 RD Bead Type 4 RD Bead Type	
	Exh	1970-74		121-1000 121-1014
Stem Seal	Int	1970-74	Positive Type, Poly Material, All Rubber Style Umbrella Type, Poly Material, Umbrella Style Positive Type, Tef/Rub Material, 1-Ring Style, Machine Guide To 0.562 O.D.	
	Exh	1970-74		122-1046 122-1051
	Both	1970-74		122-1015
Guide	Int	1970-74	140-6113 0.3745 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide	
		1970-74		140-9113 0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	1970-74	140-6108 0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)	
		1970-74		140-9108 0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Lifter	Both	1970-74	VL31 Mechanical High Performance Type	
Push Rod	Both	1970-74	190-1237 9.975 Length, W/ Mechanical Lifters	

198 C.I., (3.2L), DOHC, GAS, FI, 24 Valve, Vin S, X, EHB, EHK,
""Pentastar""

2014-21 V6 198 CID

CHR3.2-EHB_EHK **65**
BORE - 91mm/3.58""

PART	YEARS	PART NO.	NOTES
Valve	Exh	2014-20	13264 1.181 Head Diameter
Keeper	Both	2014-20	121-1082 3 RD Bead Type
Stem Seal	Both	2014-20	122-1442 Positive Type, Viton Material, Metal Clad Style
Guide	Both	2014-20	140-3182 0.2365 I.D., 1.815 Length, 0.4355 O.D., +2 O/S Available
Spring	Both	2014-20	160-1656 2.055 Length, Conical
Lifter	Both	2014-20	VL561 Hydraulic Lash Adjuster Type
Rocker Components	Both	2014-20	180-1332 Roller Cam Follower

199 C.I., (3.3L), OHV, GAS, CARB, 12 Valve, Vin A, B, E, J, P, ""AMC""
1965-70 L6 199 CID

AMC199 **66**
BORE - 95.3mm/3.75""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1965-70	SB1875-1 1 7/8 O.D., 1 5/8 I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	1965-70	
Valve	Int	1965-66	00550 1.787 Head Diameter, 4 Groove
		1967-70	
	Exh	1965-66	00549 1.406 Head Diameter, 4 Groove
		1967-70	

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

66 199 C.I., (3.3L), OHV, GAS, CARB, 12 Valve, Vin A, B, E, J, P, ""AMC"" AMC199
 (cont.) 1965-70 L6 199 CID BORE - 95.3mm/3.75""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	1965-66	121-1014	4 RD Bead Type
		1967-70	121-1007	1 SQ Bead Type
Stem Seal	Both	1965-70	122-1059	Umbrella Type,GF Nylon Material,Umbrella Style
		1965-70	122-1075	Positive Type,Viton Material,Ring & Band Style
Guide	Both	1965-70	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1965-70	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	1965-70	160-1140	2.260 Length
Lifter	Both	1965-70	VL89	Hydraulic Type

67 201 C.I., (3.3L), OHV, FLEX, GAS, FI, 12 Valve, Vin 3, E, G, H, R, T, U CHR.3
 1990-10 V6 201 CID BORE - 93mm/3.66""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1990-00	SB1875-54	1 $\frac{7}{8}$ O.D.,1.575T I.D.,0.2900 Depth
		2001-10	SB1937-55	1 $\frac{5}{16}$ O.D.,1.640T I.D.,0.2900 Depth
	Exh	1990-00	SB1562-74	1 $\frac{1}{16}$ O.D.,1.290T I.D.,0.3240 Depth
		2001-10	SB1500-71	1 $\frac{1}{2}$ O.D.,1.240 I.D.,0.3170 Depth
Valve	Int	1990-97	01671	1.791 Head Diameter,2 Groove,4.949 Overall Length, 0.3127 Stem
		1998-00	01904	1.791 Head Diameter,2 Groove,5.021 Overall Length, 0.3128 Stem, Includes Flex-Fuel
		2001-10	01993	1.890 Head Diameter,4 Groove,4.969 Overall Length, 0.2734 Stem Dia., Includes Flex-Fuel
	Exh	1990-97	01670	1.476 Head Diameter,4 Groove,4.974 Overall Length, 0.3116 Stem
		1998-00	01905	1.476 Head Diameter,4 Groove,5.045 Overall Length, Includes Flex-Fuel
		2001-10	01994	1.398 Head Diameter,4 Groove,5.023 Overall Length, 0.2722 Stem Dia., Includes Flex-Fuel
Keeper	Int	1990-00	121-1071	2 RD Bead Type,W/ .3128 Stem
	Exh	1990-00	121-1052	4 RD Bead Type,W/ .3116 Stem
	Both	2001-10	121-1089	4 RD Bead Type,W/ 7mm Stem
Stem Seal	Both	1990-00	122-1079	Positive Type,Viton Material,All Rubber Style
		2001-10	122-1350	Positive Type,Viton Material,All Rubber Style
Guide	Both	1990-97	140-8219	0.3145 I.D.,2.275 Length,0.4935 O.D.,+2 O/S Available
		1998-00	140-8177	0.3162 I.D.,2.382 Length,0.5528 O.D.
		2001-10	140-3023	0.2751 I.D.,2.275 Length,0.4934 O.D.,W/ 7 mm Valve Stem, +2 O/S Available.
Spring	Both	2001-10	160-1443	2.065 Length,Conical
Lifter	Both	1990-08	VL106	Hydraulic Roller Type,W/ Metering Socket.,Always Rotate Oil Hole Up When Installing Lifter; NOTE Large Bore W/.904 O.D. Body
		2009-10	VL560	Hydraulic Roller Type,NOTE: Small Bore W/ .842 O.D. Body
Rocker Components	Both	1990-00	180-1288	Rocker Arm
		1990-00	186-1121	Rocker Arm Shaft
Push Rod	Both	1990-00	190-1509	5.125 Length
Head Bolt Set		1990-96	220-1017	Torque To Yield,W/O Washers, Services Engine
		1997-07	220-1095	Torque To Yield,W/Washers, Services Engine
Head Saver Shim		1990-00	230-2008L	Left,New Hgt.- 4.2480 - 4.2530; Min. Hgt.- 4.2400
		1990-00	230-2008R	Right,New Hgt.- 4.2480 - 4.2530; Min. Hgt.- 4.2400

(Cont'd) CHRYSLER / PASSENGER CAR OR TRUCK**215 C.I., (3.5L), SOHC, GAS, FI, 24 Valve, Vin 4, F, G, K, M, V**
1993-10 V6 215 CID**CHR3.5 68**
BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1993-97	01712	1.378 Head Diameter
		1998-10	01901	1.437 Head Diameter
	Exh	1993-10	01713	1.142 Head Diameter
Keeper	Both	1993-10	121-1093	3 RD Bead Type
Stem Seal	Both	1993-10	122-1254	Positive Type,Viton Material,Top Hat Style
Guide	Int	1993-10	140-8548	0.2750 I.D.,2.040 Length,0.4545 O.D.
	Exh	1993-10	140-8547	0.2750 I.D.,2.160 Length,0.4545 O.D.
Spring	Int	1993-97	160-1342	1.825 Length,Conical
	Exh	1993-97	160-1343	1.835 Length,Conical
Head Bolt Set		1993-97	220-1030	Torque To Yield,Torque To Yield, 2 Req.
		1998-10	220-1086	Torque To Yield,Torque To Yield, 2 Req.
Head Saver Shim		1993-97	230-2072L	Left,New Hgt.- 4.739 - 4.749, Min. Hgt. 4.731
		1993-97	230-2072R	Right,New Hgt.- 4.739 - 4.749, Min. Hgt. 4.731
		1998-10	230-2165	New Hgt.-4.7392-4.7490, Min Hgt.4.7312; 2 Required

3498cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin 6, ""M272 Mercedes""
2008-08 V6 214 CID**3.5-DC24V 69**
BORE - 93mm/3.66"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	2008-08	122-1456	Positive Type,Viton Material,Metal Clad Style
Lifter	Both	2008-08	VL561	Hydraulic Lash Adjuster Type

218 C.I., (3.6L), OHV, GAS, CARB, 12 Valve, ""L-HEAD""
1949-54 L6 218 CID**CHR218 70**
BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1949-54	SB1625-1	1 $\frac{5}{8}$ O.D.,1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1949-54	SB1516E-1	1.516 O.D.,1 $\frac{1}{4}$ I.D., $\frac{1}{4}$ Depth
Valve	Int	1949-54	00349	1.531 Head Diameter
	Exh	1949-54	00185	1.407 Head Diameter
Keeper	Both	1949-54	121-1001	2 RD Bead Type
Guide	Int	1949-54	140-1338	0.3425 I.D.,2.813 Length,0.6575 O.D.,Tapered End To Spring Side
	Exh	1949-54	140-1337	0.3445 I.D.,2.813 Length,0.6575 O.D.,Tapered End To Spring Side

220 C.I., (3.6L), DOHC, FLEX, GAS, FI, 24 Valve, Vin G, ERB, ""Pentastar""
2011-21 V6 220 CID**ERB 71**
BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2011-19	SB1625-67PM	1 $\frac{5}{8}$ O.D.,1.350T I.D., $\frac{1}{4}$ Depth,OEM Equivalent PM Material
	Exh	2011-19	SB1250-66PM	1 $\frac{1}{4}$ O.D.,0.985T I.D., $\frac{1}{4}$ Depth,OEM Equivalent PM Material
Valve	Int	2011-21	13263	1.535 Head Diameter
		2019-20	13461	1.535 Head Diameter,Ram 1500
	Exh	2011-21	13264	1.181 Head Diameter
		2019-20	13462	1.181 Head Diameter,Ram 1500
Keeper	Both	2011-21	121-1082	3 RD Bead Type
Stem Seal	Both	2011-21	122-1442	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2011-21	140-3182	0.2365 I.D.,1.815 Length,0.4355 O.D.,+ 2 O/S Available
Spring	Both	2011-21	160-1656	2.055 Length,Conical
Lifter	Both	2011-21	VL561	Hydraulic Lash Adjuster Type

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

71 220 C.I., (3.6L), DOHC, FLEX, GAS, FI, 24 Valve, Vin G, ERB, ""Pentastar"" ERB
 (cont.) 2011-21 V6 220 CID BORE - 96mm/3.78""

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	2011-21	180-1332	Roller Cam Follower
Head Saver Shim		2011-20	230-2200R	New Hgt.-4.573"", Min. Hgt.-N/A; NOTE: Right Side
		2011-21	230-2200L	New Hgt.-4.573"", Min. Hgt.-N/A; NOTE: Left Side

72 220 C.I., (3.6L), DOHC, ELECTRIC/GAS, FLEX, GAS, FI, 24 Valve, Vin 7, G, EH3, ERC, ERF, ERG, ""Pentastar"" CHR3.6-7_G
 2016-21 V6 220 CID BORE - 96mm/3.78""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2016-20	SB1625-67PM	1 $\frac{5}{8}$ O.D.,1.350T I.D., $\frac{1}{4}$ Depth,OEM Equivalent PM Material
	Exh	2016-20	SB1250-66PM	1 $\frac{1}{4}$ O.D.,0.985T I.D., $\frac{1}{4}$ Depth,OEM Equivalent PM Material
Valve	Int	2016-20	13461	1.535 Head Diameter
	Exh	2016-20	13462	1.181 Head Diameter
Keeper	Both	2016-20	121-1082	3 RD Bead Type
Stem Seal	Both	2016-20	122-1442	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2016-20	140-3182	0.2365 I.D.,1.815 Length,0.4355 O.D.,+2 O/S Available
Spring	Both	2016-20	160-1656	2.055 Length,Conical

73 225 C.I., (3.7L), OHV, GAS, CARB, 12 Valve, Vin 6, B, C, D, E, F, G, H, J, K, L, M, N, W, X CHR225
 1960-87 L6 225 CID BORE - 86.4mm/3.40""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1960-87	SB1750-2	1 $\frac{3}{4}$ O.D.,1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.620 Valve Head Dia.
	Exh	1960-87	SB1437-1	1 $\frac{7}{16}$ O.D.,1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth
Valve	Int	1960-87	00567	1.620 Head Diameter,2 Groove,+15 O/S Stem Available
	Exh	1960-87	00746S	1.360 Head Diameter,Stellite Face, 2 Groove,Premium & Medium H-Duty
		1960-87	01265	1.360 Head Diameter,4 Groove,Except Premium & Medium H-Duty
Keeper	Exh	1960-87	121-1014	4 RD Bead Type
	Both	1960-87	121-1000	2 RD Bead Type
Stem Seal	Int	1960-87	122-1046	Positive Type,Poly Material,All Rubber Style
	Exh	1960-87	122-1051	Umbrella Type,Poly Material,Umbrella Style
	Both	1960-87	122-1015	Positive Type,Tef/Rub Material,1-Ring Style,Machine Guide To 0.562 O.D.
Guide	Int	1960-87	140-6113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1960-87	140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	1960-87	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1960-87	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	1960-87	160-1122	2.000 Length,W/O Rotator, Exc. Premium, Med. H/D and Model D500 L/D Engines
Lifter	Both	1960-80	VL31	Mechanical High Performance Type
		1981-87	VL88	Hydraulic Type
Push Rod	Both	1960-80	190-1237	9.975 Length,W/ Mechanical Lifters
		1981-87	190-1449	9.985 Length,W/ Hyd. Lifters

(Cont'd) CHRYSLER / PASSENGER CAR OR TRUCK**225 C.I., (3.7L), OHV, GAS, CARB, 12 Valve, ""GM""**
1965-71 V6 225 CID**AMC225 74**
BORE - 95.3mm/3.75""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1965-71	SB1750-1	1¼ O.D., 1½ I.D., ¼ Depth, +10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh	1965-71	SB1437-3	17/16 O.D., 1¾ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1965-71	00975	1.625 Head Diameter
	Exh	1965-71	00976	1.375 Head Diameter
Stem Seal	Both	1965-71	122-1047	Positive Type, Poly Material, 2-Ring Style
Guide	Int	1965-71	140-6105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1965-71	140-9105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9105U)
	Exh	1965-71	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1965-71	140-7460	0.3430 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1965-71	140-9460	0.3430 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9460H)
Push Rod	Both	1966-71	190-1349	8.723 Length

226 C.I., (3.7L), OHV, GAS, CARB, 12 Valve, ""L-HEAD""
1962-65 L6 226 CID**AMC226 75**
BORE - 84.1mm/3.31""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1962-65	SB1625-1	1½ O.D., 1¾ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1962-65	SB1437-3	17/16 O.D., 1¾ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Exh	1962-65	00210	1.328 Head Diameter, 1 Groove
Keeper	Exh	1962-65	121-1003	1 SQ Bead Type
Guide	Both	1962-65	140-1515	0.3427 I.D., 2.563 Length, 0.6573 O.D.

226 C.I., (3.7L), SOHC, GAS, FI, 12 Valve, Vin K
2002-12 V6 226 CID**CHR3.7 76**
BORE - 93mm/3.66""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2002-12	SB2000-51	2.000 O.D., 1.690T I.D., 0.2700 Depth
		2002-12	SB2000-51PM	2.000 O.D., 1.690T I.D., 0.2700 Depth, OEM Equivalent PM Material
	Exh	2002-12	SB1500-50	1½ O.D., 1.203T I.D., 0.2800 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, Seat May Need To Be Machined In Order To Achieve Correct Depth
		2002-12	SB1500-50PM	1½ O.D., 1.203T I.D., 0.2800 Depth, OEM Equivalent PM Material; Seat May Need To Be Machined In Order To Achieve Correct Depth
		2002-12	SB1562-66	19/16 O.D., 1.265T I.D., 0.2800 Depth, NOTE: Alternate O.D., Check Casting Before Use
		2002-12	SB1562-66PM	19/16 O.D., 1.265T I.D., 0.2800 Depth, OEM Equivalent PM Material; NOTE: Alternate O.D; Check Casting Before Use.
Valve	Int	2002-12	01918	1.915 Head Diameter
	Exh	2002-12	02036	1.457 Head Diameter
Keeper	Both	2002-12	121-1093	3 RD Bead Type
Stem Seal	Both	2002-12	122-1344	Positive Type, Viton Material, Top Hat Style
Guide	Both	2002-12	140-3026	0.2752 I.D., 1.702 Length, 0.4720 O.D., +2 O/S Available

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

76 226 C.I., (3.7L), SOHC, GAS, FI, 12 Valve, Vin K CHR3.7
 (cont.) 2002-12 V6 226 CID BORE - 93mm/3.66"

PART		YEARS	PART NO.	NOTES
Guide	Both	2002-12	140-3026H	0.2752 I.D., 1.702 Length, 0.4720 O.D., +2 O/S Available (140-3026H+2), NOTE: Optional Hardened Version; +2 O/S Available
Spring	Int	2005-12	160-1612	1.907 Length, Conical
	Exh	2003-12	160-1614	1.898 Length, Conical, W/ External Shroud
Lifter	Both	2002-04	VL107	Hydraulic Lash Adjuster Type
		2005-12	VL562	Hydraulic Lash Adjuster Type
Rocker Components	Both	2002-12	180-1335	Roller Cam Follower
Head Bolt Set		2002-12	220-1097	Torque To Yield, Services Engine
Head Saver Shim		2002-12	230-2133	New Hgt. - 4.592; 2 Required

77 230 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, ""L-HEAD"" CHR230
 1946-59 L6 230 CID BORE - 82.5mm/3.25"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1946-59	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1946-59	SB1516E-1	1.516 O.D., 1 $\frac{1}{4}$ I.D., $\frac{1}{4}$ Depth
Valve	Int	1946-59	00349	1.531 Head Diameter
	Exh	1946-59	00185	1.407 Head Diameter
Keeper	Both	1946-59	121-1001	2 RD Bead Type
Stem Seal	Both	1946-59	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style, Machine Guide To 0.562 O.D.
Guide	Int	1946-59	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	1946-59	140-1337	0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

78 230 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin 1, L, P CHR3.8
 1991-11 V6 230 CID BORE - 96mm/3.78"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1991-00	SB1875-54	1 $\frac{7}{8}$ O.D., 1.575T I.D., 0.2900 Depth
		2001-11	SB1937-55	1 $\frac{5}{16}$ O.D., 1.640T I.D., 0.2900 Depth
	Exh	1991-00	SB1562-74	1 $\frac{1}{16}$ O.D., 1.290T I.D., 0.3240 Depth
		2001-11	SB1500-71	1 $\frac{1}{2}$ O.D., 1.240 I.D., 0.3170 Depth
Valve	Int	1991-99	01671	1.791 Head Diameter, 2 Groove, 4.949 Overall Length, 0.3127 Stem
		2000-00	01904	1.791 Head Diameter, 2 Groove, 5.021 Overall Length, 0.3128 Stem, Includes Flex-Fuel
		2001-11	01993	1.890 Head Diameter, 4 Groove, 4.969 Overall Length, 0.2734 Stem Dia., Includes Flex-Fuel
	Exh	1991-99	01670	1.476 Head Diameter, 4 Groove, 4.974 Overall Length, 0.3116 Stem
		2000-00	01905	1.476 Head Diameter, 4 Groove, 0.3116 Stem, Includes Flex-Fuel
		2001-11	01994	1.398 Head Diameter, 4 Groove, 5.023 Overall Length, 0.2722 Stem Dia., Includes Flex-Fuel
Keeper	Int	1991-00	121-1071	2 RD Bead Type
	Exh	1991-00	121-1052	4 RD Bead Type
	Both	2001-11	121-1089	4 RD Bead Type
Stem Seal	Both	1991-00	122-1079	Positive Type, Viton Material, All Rubber Style
		2001-11	122-1350	Positive Type, Viton Material, All Rubber Style

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

230 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin 1, L, P
1991-11 V6 230 CID

CHR3.8 78
BORE - 96mm/3.78" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Both	1991-00	140-8219	0.3145 I.D.,2.275 Length,0.4935 O.D.,+2 O/S Available 0.2751 I.D.,2.275 Length,0.4934 O.D.,W/ 7 mm Valve Stem, +2 O/S Available.
		2001-11	140-3023	
Spring	Both	2001-11	160-1443	2.065 Length,Conical
Lifter	Both	1991-08	VL106	Hydraulic Roller Type,W/ Metering Socket.,Always Rotate Oil Hole Up When Installing Lifter; NOTE: Large Bore W/.904 O.D. Body Hydraulic Roller Type,NOTE: Small Bore W/ .842 O.D. Body
		2009-11	VL560	
Rocker Components	Both	1991-00	180-1288	Rocker Arm Rocker Arm Shaft
		1991-00	186-1121	
Push Rod	Both	1991-00	190-1509	5.125 Length
Head Bolt Set		1994-96	220-1017	Torque To Yield,W/O Washers, Services Engine Torque To Yield,W/Washers, Services Engine
		1997-07	220-1095	
Head Saver Shim		1991-01	230-2118L	Left,New Hgt. - 0.954 - Min. Hgt. - N/A, NOTE: Measured From Outer Head Bolt Right,New Hgt. - 0.954 - Min. Hgt. - N/A, NOTE: Measured From Outer Head Bolt
		1991-01	230-2118R	

232 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin B, C, E, F, G, L, M, P, Q, S, T,
V, W, ""AMC Hi-Torque""
1964-79 L6 232 CID

CHR232 79
BORE - 95.3mm/3.75" ""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1964-79	SB1875-1	1 ⁷ / ₈ O.D.,1 ⁵ / ₈ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material 1 ¹ / ₂ O.D.,1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1964-79	SB1500-1	
Valve	Int	1964-66	00550	1.787 Head Diameter,4 Groove 1.787 Head Diameter,1 Groove 1.787 Head Diameter,4 Groove
		1967-72	01442	
		1973-79	01260	
	Exh	1964-66	00549	1.406 Head Diameter,4 Groove 1.406 Head Diameter,1 Groove 1.406 Head Diameter,4 Groove,W/O Rotator
		1967-72	01441	
		1973-79	01325	
Keeper	Exh	1973-74	121-1003	1 SQ Bead Type, ¹ / ₃₂ Stem In Groove Area 4 RD Bead Type 1 SQ Bead Type, ³ / ₈ Stem
	Both	1964-79	121-1014	
		1967-72	121-1007	
Stem Seal	Both	1964-79	122-1059	Umbrella Type,GF Nylon Material,Umbrella Style Positive Type,Viton Material, Ring & Band Style
		1964-79	122-1075	
Guide	Both	1964-79	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U) 0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
		1964-79	140-9108	
Spring	Both	1964-79	160-1023	2.034 Length,W/O Rotator, 1978-79 W/ 2 Bbl. Carb.
Lifter	Both	1964-79	VL89	Hydraulic Type
Rocker Components	Both	1974-79	181-1028	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge Fulcrum, Short Bridge,When Replacing, Fulcrum # 183-1014 Must Also Be Used
		1974-79	183-1014	
		1974-79	183-1028	
Push Rod	Both	1972-76	190-1429	9.594 Length,From Eng. Code # 502A,B,E & F07(W/ Stamped Steel Rocker Arms) 9.622 Length
		1977-79	190-1440	

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

80 236 C.I., (3.9L), OHV, GAS, CARB, 12 Valve
1942-52 L6 236 CID

CHR236

BORE - 87.3mm/3.44"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1942-52	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	1942-52	SB1640E-1	1.640 O.D., 1 ³ / ₈ I.D., 1/4 Depth
Valve	Int	1942-52	00298	1.718 Head Diameter, 2 Groove
	Exh	1948-52	00257	1.501 Head Diameter, 2 Groove, W/.340 Stem, From Eng. # 175885
Keeper	Both	1942-52	121-1001	2 RD Bead Type
Guide	Int	1942-52	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	1942-52	140-1337	0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

81 237 C.I., (3.9L), OHV, GAS, CARB, 12 Valve, ""L-HEAD""
1942-53 L6 237 CID

CHR237

BORE - 87.3mm/3.44"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1942-53	SB1640E-1	1.640 O.D., 1 ³ / ₈ I.D., 1/4 Depth
	Exh	1942-53	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1942-53	00298	1.718 Head Diameter, 2 Groove
	Exh	1948-53	00257	1.501 Head Diameter, 2 Groove, W/.340 Stem, From Eng. # 175885
Keeper	Both	1942-53	121-1001	2 RD Bead Type
Guide	Int	1942-53	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	1942-53	140-1337	0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

82 239 C.I., (3.9L), OHV, GAS, CARB, 12 Valve, Vin M
1987-87 V6 239 CID

CHR3.9CA

BORE - 99.3mm/3.91"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1987-87	SB1812-4	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1987-87	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1987-87	00938	1.780 Head Diameter, 2 Groove, +15 O/S Stem Available
	Exh	1987-87	01419	1.517 Head Diameter, 2 Groove, +15 O/S Stem Available
Keeper	Both	1987-87	121-1000	2 RD Bead Type
Stem Seal	Both	1987-87	122-1015	Positive Type, Tef/Rub Material, 1-Ring Style
Guide	Int	1987-87	140-5610	0.3750 I.D., 2.625 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1987-87	140-9610	0.3750 I.D., 2.625 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	1987-87	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1987-87	140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Exh	1987-87	160-1018	1.810 Length, W/ Rotator
	Both	1987-87	160-1122	2.000 Length, W/O Rotator
Lifter	Both	1987-87	VL89	Hydraulic Type
Rocker Components	Int	1987-87	180-1077	Rocker Arm, L.H., Shaft Not Incl.

(Cont'd) CHRYSLER / PASSENGER CAR OR TRUCK**239 C.I., (3.9L), OHV, GAS, CARB, 12 Valve, Vin M**
1987-87 V6 239 CID**CHR3.9CA 82**
BORE - 99.3mm/3.91"" (cont.)

PART	YEARS	PART NO.	NOTES
Rocker Components	Exh 1987-87	180-1078	Rocker Arm,R.H., Shaft Not Incl.
Push Rod	Both 1987-87	190-1450	7.500 Length,+15 O/S (190-1450+15) & +45 O/S (190-1450+45) Available

239 C.I., (3.9L), OHV, GAS, FI, 12 Valve, Vin X
1988-03 V6 239 CID**CHR3.9FI 83**
BORE - 99.3mm/3.91""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1988-91	SB1812-4	1 ¹ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.780 Valve Head Dia.
	Exh 1992-03	SB2000-36	2.000 O.D.,1 ³ / ₄ I.D., ³ / ₁₆ Depth,W/ 1.920 Valve Head Dia.
	Exh 1988-91	SB1625-1	1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.517 Head Dia.
	Exh 1992-03	SB1687-16	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ³ / ₁₆ Depth,W/ 1.624 Valve Head Dia.
Valve	Int 1988-91	00938	1.780 Head Diameter,2 Groove,+15 O/S Stem Available
	Int 1992-03	01714	1.920 Head Diameter,1 Groove, +15 O/S Available
	Exh 1988-91	01419	1.517 Head Diameter,2 Groove,+15 O/S Stem Available
	Exh 1992-03	01715	1.624 Head Diameter,1 Groove,1 Groove, +15 O/S Available
Keeper	Both 1988-91	121-1000	2 RD Bead Type
	Both 1992-03	121-1021	1 RD Bead Type
Stem Seal	Int 1992-03	122-1204	Positive Type,Viton Material,Metal Clad Style
	Exh 1992-03	122-1205	Positive Type,Viton Material,Metal Clad Style
	Both 1988-91	122-1015	Positive Type,Tef/Rub Material,1-Ring Style
Guide	Int 1988-91	140-5610	0.3750 I.D.,2.625 Length,0.5020 O.D.,Plain I.D. Conversion Guide
	Int 1988-91	140-9610	0.3750 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Int 1992-03	140-7847	0.3135 I.D.,2.250 Length,0.5020 O.D.,W/ .3115 Stem Dia., W/ .534 Seal Boss
	Exh 1988-91	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
	Exh 1988-91	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
	Exh 1992-03	140-8494	0.3135 I.D.,2.435 Length,0.5020 O.D.,W/ .3115 Stem Dia., W/ .534 Seal Boss
Spring	Both 1992-03	160-1378	1.967 Length,Conical
Lifter	Both 1988-03	VL106	Hydraulic Roller Type,W/ Metering Socket.,Always Rotate Oil Hole Up When Installing Lifter
Rocker Components	Both 1988-91	180-1079	Rocker Arm,L.H.
	Both 1988-91	180-1080	Rocker Arm,R.H.
	Both 1992-03	180-1313	Rocker Arm
Push Rod	Both 1988-91	190-1507	6.777 Length
	Both 1992-03	190-1525	6.901 Length
Head Saver Shim	1992-03	230-2110	New Hgt.- Min. Hgt - N/A

241 C.I., (4.0L), SOHC, GAS, FI, 24 Valve, Vin 6, X
2007-11 V6 241 CID**CHR4.0 84**
BORE - 96mm/3.78""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 2007-11	SB1250-63	1 ¹ / ₄ O.D.,0.930 I.D.,0.3250 Depth
Valve	Int 2007-11	01901	1.437 Head Diameter
	Exh 2007-11	01713	1.142 Head Diameter

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

84 241 C.I., (4.0L), SOHC, GAS, FI, 24 Valve, Vin 6, X
(cont.) 2007-11 V6 241 CID

CHR4.0
BORE - 96mm/3.78"

PART		YEARS	PART NO.	NOTES
Keeper	Both	2007-11	121-1093	3 RD Bead Type
Stem Seal	Both	2007-11	122-1254	Positive Type,Viton Material,Top Hat Style
Guide	Int	2007-11	140-8548	0.2750 I.D.,2.040 Length,0.4545 O.D.
	Exh	2007-11	140-8547	0.2750 I.D.,2.160 Length,0.4545 O.D.
Head Saver Shim		2007-11	230-2165	New Hgt.-N/A, Min Hgt.-N/A; 2 Required

85 242 C.I., (4.0L), OHV, GAS, FI, 12 Valve, Vin L, M, S, ""Jeep""
1987-06 L6 242 CID

AMC242
BORE - 98.4mm/3.88"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1987-06	SB2000-1	2.000 O.D.,1 ³ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material
	Exh	1987-06	SB1562-36	1 ¹ / ₁₆ O.D.,1 ¹⁵ / ₁₆ I.D., ⁹ / ₁₆ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	1987-98	01557	1.910 Head Diameter,1 Round Groove,1 Round Groove. +15 O/S Stem Available
		1999-06	01916	1.910 Head Diameter,3 Groove,+15 O/S Stem Available
	Exh	1987-98	01556	1.500 Head Diameter,1 Round Groove,+15 O/S Stem Available
		1999-06	01917	1.500 Head Diameter,3 Groove,+15 O/S Stem Available
Keeper	Both	1987-98	121-1021	1 RD Bead Type
		1999-06	121-1083	3 RD Bead Type
Stem Seal	Int	1987-06	122-1052	Positive Type,Viton Material,Ring & Band Style,Optional Aftermarket Version; Use W/ .502 O.D. Guide (140-9848)
		1987-06	122-1204	Positive Type,Viton Material,Metal Clad Style,OEM Version; Use W/ Guide (140-7847); Black
	Exh	1987-06	122-1053	Positive Type,Viton Material,Ring & Band Style,Black Color Seal,Optional Aftermarket Version; Use W/ .502 O.D. Guide (140-9848)
		1987-06	122-1205	Positive Type,Viton Material,Metal Clad Style,OEM Version; Use W/ Guide (140-8494); Brown
Guide	Int	1987-06	140-7847	0.3135 I.D.,2.250 Length,0.5020 O.D.,W/ .534 Seal Boss
	Exh	1987-06	140-8494	0.3135 I.D.,2.435 Length,0.5020 O.D.,W/ .534 Seal Boss
	Both	1987-06	140-9848	0.3135 I.D.,2.438 Length,0.5020 O.D.,Optional Conversion Guide
Spring	Both	1987-95	160-1378	1.967 Length,Conical
		1996-06	160-1483	1.930 Length,Conical
Lifter	Both	1987-06	VL89	Hydraulic Type
Rocker Components	Both	1987-06	180-1236	Rocker Arm
		1987-06	181-1037	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
		1987-06	183-1014	Fulcrum, Short
		1987-06	183-1028	Bridge,When Replacing, Fulcrum # 183-1014 Must Also Be Used, Cyl. # 1, 2, 5, 6
Push Rod	Both	1987-06	192-1442	9.650 Length,0.312 Dia.
Head Bolt Set		1996-06	220-1091	Torque To Yield,Services Engine, W/Torx Head
Head Saver Shim		1987-06	230-2121	New Hgt. 3.465

86 250 C.I., (4.1L), OHV, GAS, CARB, ""AMC""
1958-62 V8 250 CID

AMC250
BORE - 88.9mm/3.50"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1958-62	SB1875-1	1 ⁷ / ₈ O.D.,1 ¹⁵ / ₁₆ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

250 C.I., (4.1L), OHV, GAS, CARB, ""AMC"" **AMC250 86**
1958-62 V8 250 CID **BORE - 88.9mm/3.50"" (cont.)**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1958-62	SB1500-1	1½ O.D., 1¼ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int 1958-62	00550	1.787 Head Diameter, 4 Groove
	Exh 1958-62	00549	1.406 Head Diameter, 4 Groove
Keeper	Both 1958-62	121-1014	4 RD Bead Type
Stem Seal	Both 1958-62	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style
Guide	Both 1958-62	140-1919	0.3740 I.D., 2.250 Length, 0.6006 O.D.
Lifter	Both 1958-62	VL31	Mechanical High Performance Type

251 C.I., (4.1L), OHV, GAS, CARB, 12 Valve, ""L-HEAD"" **CHR251 87**
1950-68 L6 251 CID **BORE - 87.3mm/3.44""**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1950-68	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ¼ Depth, Also Available In Non-Magnetic (N) Material
	Exh 1950-68	SB1640E-1	1.640 O.D., 1 ³ / ₈ I.D., ¼ Depth
Valve	Int 1950-68	00298	1.718 Head Diameter, 2 Groove
	Exh 1950-68	00257	1.501 Head Diameter, 2 Groove, W/.340 Stem
Keeper	Both 1950-68	121-1001	2 RD Bead Type
Guide	Int 1950-68	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh 1950-68	140-1337	0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

258 C.I., (4.2L), OHV, GAS, CARB, 12 Valve, Vin A, B, C, M, T, ""AMC"" **AMC258 88**
1971-90 L6 258 CID **BORE - 95.3mm/3.75""**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int 1971-90	SB1875-1	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., ¼ Depth, Also Available In Non-Magnetic (N) Material	
	Exh 1971-90	SB1500-1	1½ O.D., 1¼ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material	
Valve	Int	1971-72	00550	1.787 Head Diameter, 4 Groove
		1973-80	01260	1.787 Head Diameter, 4 Groove
		1981-90	01442	1.787 Head Diameter, 1 Groove
	Exh	1971-72	00549	1.406 Head Diameter, 4 Groove
		1973-80	01325	1.406 Head Diameter, 4 Groove, W/O Rotator
		1981-90	01441	1.406 Head Diameter, 1 Groove
Keeper	Exh 1973-74	121-1003	1 SQ Bead Type, 1 ¹ / ₃₂ Stem In Groove Area	
	Both 1971-80	121-1014	4 RD Bead Type	
	1981-90	121-1007	1 SQ Bead Type, 3/8 Stem	
Stem Seal	Both 1971-90	122-1059	Umbrella Type, GF Nylon Material, Umbrella Style	
	1971-90	122-1075	Positive Type, Viton Material, Ring & Band Style, 1 ¹ / ₃₂ Stem	
Guide	Int 1971-90	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)	
	Both 1971-90	140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)	
Spring	Both 1971-75	160-1140	2.260 Length	
	1976-90	160-1023	2.034 Length, W/O Rotator	
Lifter	Both 1971-90	VL89	Hydraulic Type	
Rocker Components	Both 1974-82	181-1028	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge	

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

88 258 C.I., (4.2L), OHV, GAS, CARB, 12 Valve, Vin A, B, C, M, T, ""AMC"" AMC258
 (cont.) 1971-90 L6 258 CID BORE - 95.3mm/3.75""

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	1974-90	183-1014	Fulcrum, Short
		1974-90	183-1028	Bridge,When Replacing, Fulcrum # 183-1014 Must Also Be Used, Cyl. # 1, 2, 5, 6
	1983-90	180-1236	Rocker Arm	
	1983-90	181-1037	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge,Cyl. # 1, 2, 5, 6	
Push Rod	Both	1972-75	190-1429	9.594 Length,From Eng. Code # 502A,B,E & F07(W/ Stamped Steel Rocker Arms)
		1976-80	190-1440	9.622 Length
		1981-88	190-1454	9.700 Length,+40 O/S (190-1454+40) Available
		1989-90	190-1529	9.728 Length

89 265 C.I., (4.3L), OHV, GAS, CARB, 12 Valve, ""L-HEAD"" CHR265
 1952-60 L6 265 CID BORE - 87.3mm/3.44""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1952-60	SB1812-1	1 ¹³ / ₁₆ O.D.,1 ⁹ / ₁₆ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
	Exh	1952-60	SB1640E-1	1.640 O.D.,1 ³ / ₈ I.D., ¹ / ₄ Depth
Valve	Int	1952-60	00298	1.718 Head Diameter,2 Groove
	Exh	1952-54	00257	1.501 Head Diameter,2 Groove, W/.340 Stem
Keeper	Both	1952-60	121-1001	2 RD Bead Type
Guide	Int	1952-60	140-1338	0.3425 I.D.,2.813 Length,0.6575 O.D.,Tapered End To Spring Side
	Exh	1952-60	140-1337	0.3445 I.D.,2.813 Length,0.6575 O.D.,Tapered End To Spring Side

90 270 C.I., (4.4L), OHV, GAS, CARB, 16 Valve CHR270
 1955-56 V8 270 CID BORE - 92.1mm/3.63""

PART	YEARS	PART NO.	NOTES	
Guide	Both	1955-56	140-9112	0.3745 I.D.,2.250 Length,0.5020 O.D.
Lifter	Both	1955-56	VL8	Hydraulic Type

91 273 C.I., (4.5L), OHV, GAS, CARB, 16 Valve CHR273
 1964-67 V8 273 CID BORE - 92.1mm/3.63""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1964-67	SB1812-1	1 ¹³ / ₁₆ O.D.,1 ⁹ / ₁₆ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
	Exh	1964-67	SB1625-2	1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	1964-67	00938	1.780 Head Diameter,2 Groove,+15 O/S Stem Available
	Exh	1964-67	01329	1.500 Head Diameter,4 Groove,OEM # 2465339, +15 O/S Stem Available
Keeper	Int	1964-67	121-1000	2 RD Bead Type
	Exh	1964-67	121-1014	4 RD Bead Type
Stem Seal	Both	1965-67	122-1015	Positive Type,Tef/Rub Material,1-Ring Style,Machine Guide To 0.562 O.D.
		1965-67	122-1041	Umbrella Type,Poly Material,Umbrella Style
Guide	Int	1964-67	140-6113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1964-67	140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	1964-67	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

273 C.I., (4.5L), OHV, GAS, CARB, 16 Valve
1964-67 V8 273 CID

CHR273 91
BORE - 92.1mm/3.63" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Exh 1964-67	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both 1964-67	160-1122	2.000 Length,W/O Rotator
Lifter	Both 1964-67 1964-67	VL31 VL89	Mechanical High Performance Type Hydraulic Type
Rocker Components	Both 1964-67 1964-67 1964-67	180-1077 180-1078 186-1100	Rocker Arm,L.H., Shaft Not Incl., W/ Hydraulic Lifter Rocker Arm,R.H., Shaft Not Incl. W/ Hydraulic Lifter Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both 1964-67 1964-67	190-1342 190-1450	7.491 Length 7.500 Length,+15 O/S (190-1450+15) & +45 O/S (190-1450+45) Available,NOTE: Must be used with adjustable valve train.

277 C.I., (4.5L), OHV, GAS, CARB, 16 Valve
1956-57 V8 277 CID

CHR277 92
BORE - 95.3mm/3.75"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1956-57 Exh 1956-57	SB1937-1 SB1687-2	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D., ¹ / ₄ Depth 1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int 1956-57 Exh 1956-57	00514 00518	1.844 Head Diameter,2 Groove 1.563 Head Diameter,4 Groove
Keeper	Int 1956-57 Exh 1956-57	121-1000 121-1014	2 RD Bead Type 4 RD Bead Type
Stem Seal	Int 1956-57	122-1031	Positive Type,Poly Material,2-Ring Style
Guide	Int 1956-57 1956-57 Exh 1956-57 1956-57	140-6110 140-9110 140-6108 140-9108	0.3740 I.D.,2.625 Length,0.5020 O.D.,Plain I.D. Conversion Guide 0.3740 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide 0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U) 0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Lifter	Both 1956-57	VL31	Mechanical High Performance Type

287 C.I., (4.7L), OHV, GAS, CARB, 16 Valve, Vin H, N, T, ""AMC""
1963-66 V8 287 CID

AMC287 93
BORE - 95.3mm/3.75"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1963-66 Exh 1963-66	SB1875-1 SB1500-1	1 ⁷ / ₈ O.D.,1 ⁵ / ₈ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material 1 ¹ / ₂ O.D.,1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int 1963-66 Exh 1963-66	00550 00549	1.787 Head Diameter,4 Groove 1.406 Head Diameter,4 Groove
Keeper	Both 1963-66	121-1014	4 RD Bead Type
Stem Seal	Both 1963-66 1963-66	122-1017 122-1038	Positive Type,Tef/Rub Material,1-Ring Style,Machine Guide To 0.594 O.D. Umbrella Type,Poly Material,Umbrella Style
Guide	Both 1963-66	140-1919	0.3740 I.D.,2.250 Length,0.6006 O.D.
Spring	Both 1963-66	160-1140	2.260 Length

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

93 287 C.I., (4.7L), OHV, GAS, CARB, 16 Valve, Vin H, N, T, ""AMC"" AMC287
 (cont.) 1963-66 V8 287 CID BORE - 95.3mm/3.75""

PART	YEARS	PART NO.	NOTES
Lifter	Both	1963-66 VL89	Hydraulic Type

94 287 C.I., (4.7L), SOHC, FLEX, GAS, FI, 16 Valve, Vin J, N, P CHR4.7
 1999-13 V8 287 CID BORE - 93mm/3.66""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1999-13 SB2000-51	2.000 O.D., 1.690T I.D., 0.2700 Depth
		1999-13 SB2000-51PM	2.000 O.D., 1.690T I.D., 0.2700 Depth, OEM Equivalent PM Material
	Exh	1999-13 SB1500-50	1½ O.D., 1.203T I.D., 0.2800 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, Seat May Need To Be Machined To Achieve Correct Depth
		1999-13 SB1500-50PM	1½ O.D., 1.203T I.D., 0.2800 Depth, OEM Equivalent PM Material; Seat May Need To Be Machined In Order To Achieve Correct Depth
		1999-13 SB1562-66	1¼ O.D., 1.265T I.D., 0.2800 Depth, NOTE: Alternate O.D., Check Casting Before Use
		1999-13 SB1562-66PM	1¼ O.D., 1.265T I.D., 0.2800 Depth, OEM Equivalent PM Material; NOTE: Alternate O.D; Check Casting Before Use.
Valve	Int	1999-07 01918	1.915 Head Diameter, W/.3724 Tip To Groove Length
		2008-13 13251	1.915 Head Diameter, W/.2933 Tip To Groove Length
	Exh	1999-07 01919	1.457 Head Diameter, W/.4283 Tip To Groove Length; Except H. O.
		2002-05 02036	1.457 Head Diameter, W/.4283 Tip To Groove Length; Includes H.O., Except 2006-07 H.O.
		2008-13 13252	1.457 Head Diameter, W/.3890 Tip To Groove Length; Includes H.O.
Keeper	Both	1999-13 121-1093	3 RD Bead Type
Stem Seal	Both	1999-07 122-1344	Positive Type, Viton Material, Top Hat Style
Guide	Both	1999-07 140-3026	0.2752 I.D., 1.702 Length, 0.4720 O.D., +2 O/S Available
		1999-07 140-3026H	0.2752 I.D., 1.702 Length, 0.4720 O.D., +2 O/S Available (140-3026H+2), NOTE: Optional Hardened Version; +2 O/S Available
		2008-13 140-3149	0.2752 I.D., 1.820 Length, 0.4720 O.D.
Spring	Both	1999-07 160-1432	1.929 Length, Conical, Except 2006-07 H.O.
		2008-13 160-1609SSA	1.915 Length, Conical W/ External Shroud & Valve Stem Seal Assy., NOTE: OEM # 53021994AA Assy.
Lifter	Both	1999-07 VL107	Hydraulic Lash Adjuster Type
		2008-13 VL562	Hydraulic Lash Adjuster Type
Rocker Components	Both	1999-13 180-1335	Roller Cam Follower
Head Bolt Set		1999-13 220-1098	Torque To Yield, Services Engine
Head Saver Shim		1999-09 230-2125	New Hgt. 4.585 - 4.592; Min. Hgt. 4.5750; NOTE: 2 Req.

95 290 C.I., (4.8L), OHV, GAS, CARB, 16 Valve, Vin C, D, H, M, N, ""AMC Gen 2 Short Deck"" AMC290
 1966-69 V8 290 CID BORE - 95.2mm/3.75""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1966-69 SB1875-1	1⅞ O.D., 1⅝ I.D., ¼ Depth, Also Available In Non-Magnetic (N) Material
	Exh	1966-69 SB1500-1	1½ O.D., 1¼ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1966-69 01442	1.787 Head Diameter, 1 Groove
	Exh	1966-69 01441	1.406 Head Diameter, 1 Groove
Keeper	Both	1966-69 121-1007	1 SQ Bead Type

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

290 C.I., (4.8L), OHV, GAS, CARB, 16 Valve, Vin C, D, H, M, N, ""AMC Gen 2 Short Deck""

95

1966-69 V8 290 CID

AMC290 (cont.)

BORE - 95.2mm/3.75""

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1966-69	122-1031	Positive Type,Poly Material,2-Ring Style
		1966-69	122-1041	Umbrella Type,Poly Material,Umbrella Style
Guide	Both	1966-69	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1966-69	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	1966-69	160-1161	2.068 Length
Lifter	Both	1966-69	VL89	Hydraulic Type
Rocker Components	Both	1966-69	181-1021	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1966-69	184-1023	Stud, 3/8-7/16
		1966-69	184-1038	Nut, 3/8
Push Rod	Both	1966-69	192-1381	7.735 Length

303 C.I., (5.0L), OHV, GAS, CARB, 16 Valve

CHR303 96

1956-57 V8 303 CID

BORE - 96.8mm/3.81""

PART	YEARS	PART NO.	NOTES	
Valve	Exh	1956-57	00518	1.563 Head Diameter,4 Groove
Keeper	Exh	1956-57	121-1014	4 RD Bead Type
Guide	Int	1956-57	140-6110	0.3740 I.D.,2.625 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1956-57	140-9110	0.3740 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	1956-57	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1956-57	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)

304 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, Vin H, I, M, ""AMC""

AMC304 97

1970-81 V8 304 CID

BORE - 95.3mm/3.75""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1970-81	SB1875-1	17/8 O.D.,15/8 I.D.,1/4 Depth,Also Available In Non-Magnetic (N) Material
	Exh	1970-81	SB1500-1	1 1/2 O.D.,1 1/4 I.D.,7/32 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1973-80	01260	1.787 Head Diameter,4 Groove
		1981-81	01442	1.787 Head Diameter,1 Groove,Jeep Only
	Exh	1973-80	01325	1.406 Head Diameter,4 Groove
		1981-81	01441	1.406 Head Diameter,1 Groove,Jeep Only
Keeper	Both	1973-80	121-1014	4 RD Bead Type
		1981-81	121-1007	1 SQ Bead Type,Jeep Only
Stem Seal	Both	1970-81	122-1031	Positive Type,Poly Material,2-Ring Style
		1970-81	122-1059	Umbrella Type,GF Nylon Material,Umbrella Style
Guide	Both	1970-81	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1970-81	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	1971-77	160-1164	2.200 Length

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

97 304 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, Vin H, I, M, ""AMC"" AMC304
 (cont.) 1970-81 V8 304 CID BORE - 95.3mm/3.75""

PART		YEARS	PART NO.	NOTES
Spring	Both	1978-81	160-1023	2.034 Length,W/O Rotator
Lifter	Both	1970-81	VL89	Hydraulic Type
Rocker Components	Both	1970-73	181-1021	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1970-73	184-1038	Nut, 3/8
		1974-81	181-1032	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
		1974-81	183-1014	Fulcrum, Short
		1974-81	183-1028	Bridge,When Replacing, Fulcrum # 183-1014 Must Also Be Used
Push Rod	Both	1970-81	192-1331	7.793 Length

98 318 C.I., (5.2L), OHV, GAS, CARB, FI, 16 Valve, Vin 4, E, F, G, H, J, K, L, M, N, P, R, S, Z, ""Passenger Car"" CHR318CAR
 1957-89 V8 318 CID BORE - 99.3mm/3.91""

PART		YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1957-67	SB1937-1	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D.,1/4 Depth,W/ 1.844 Valve Head Dia.	
		1968-89	SB1812-1	1 ¹³ / ₁₆ O.D.,1 ⁹ / ₁₆ I.D.,1/4 Depth,Also Available In Non-Magnetic (N) Material	
		1981-89	SB2000-1	2.000 O.D.,1 ³ / ₄ I.D.,7/32 Depth,Also Available In Non-Magnetic (N) Material,4 Bbl.Carb., H-Duty, W/ 1.880 Valve Head Dia.	
		Exh	1957-89	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D.,7/32 Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.563 & 1.600 Valve Head Dia.
			1967-89	SB1625-1	1 ⁵ / ₈ O.D.,1 ¹ / ₈ I.D.,7/32 Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.500 Valve Head Dia.
Valve	Int	1957-67	00514	1.844 Head Diameter,2 Groove	
		1968-89	00938	1.780 Head Diameter,2 Groove,Except 1981-89 H-Duty or Police 4Bbl. Carb., +15 O/S Stem Available	
		1981-89	01180	1.880 Head Diameter,2 Groove,H-Duty & Police 4Bbl. Carb., 2 Groove. +15 O/S Stem Available	
	Exh	1981-89	01273	1.880 Head Diameter,4 Groove,H-Duty & Police 4 Bbl. Carb.	
		1957-67	00518	1.563 Head Diameter,4 Groove	
		1967-78	01329	1.500 Head Diameter,4 Groove,OEM # 2465339, +15 O/S Stem Available	
		1979-89	01399	1.500 Head Diameter,4 Groove,Except 1981-89 H-Duty or Police 4 Bbl. Carb.	
Keeper	Int	1957-89	121-1000	2 RD Bead Type	
	Exh	1957-89	121-1014	4 RD Bead Type,Also For 1981-89 Int To Be Used W/ 01273	
Stem Seal	Int	1957-89	122-1046	Positive Type,Poly Material,All Rubber Style	
	Exh	1957-89	122-1051	Umbrella Type,Poly Material,Umbrella Style	
	Both	1957-89	122-1063	Positive Type,Viton Material,All Rubber Style	
Guide	Int	1957-66	140-5610	0.3750 I.D.,2.625 Length,0.5020 O.D.,Plain I.D. Conversion Guide	
		1957-66	140-9610	0.3750 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide	
		1967-89	140-6113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide	
		1967-89	140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide	
	Exh	1957-89	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)	

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

318 C.I., (5.2L), OHV, GAS, CARB, FI, 16 Valve, Vin 4, E, F, G, H, J, K, L, M, **98**
N, P, R, S, Z, ""Passenger Car"" CHR318CAR (cont.)
1957-89 V8 318 CID BORE - 99.3mm/3.91""

PART	YEARS	PART NO.	NOTES
Guide	Exh 1957-89	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both 1957-89 1960-83	160-1122 160-1020	2.000 Length,Exc. H-Duty Or Police W/ 4 Bbl. Carb., W/O Rotator 2.000 Length
Lifter	Both 1957-66 1968-89 1985-89	VL31 VL89 VL106	Mechanical High Performance Type Hydraulic Type Hydraulic Roller Type,W/ Metering Socket.,Always Rotate Oil Hole Up When Installing Lifter
Rocker Components	Both 1967-88 1967-88 1989-89 1989-89 1967-89	180-1077 180-1078 180-1079 180-1080 186-1100	Rocker Arm,L.H., W/ Oil Hole Rocker Arm,R.H., W/ Oil Hole Rocker Arm,L.H., W/O Oil Hole Rocker Arm,R.H., W/O Oil Hole Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both 1968-88 1985-88 1989-89	190-1450 190-1502 190-1507	7.500 Length,+15 O/S (190-1450+15) & +45 O/S (190-1450+45) Available,W/ Hyd. Lifters, W/O Oil Feed Hole 6.802 Length,W/ Hyd. Roller Lifters, W/O Oil Hole 6.777 Length,W/ Hyd. Roller Lifters, (Exc. ELE Police W/ 4Bbl. Carb.), W/ Oil Hole

318 C.I., (5.2L), OHV, GAS, CARB, 16 Valve, Vin 8, E, G, P, R, T, U, **99**
""Truck"" CHR318TRU-CA
1959-87 V8 318 CID BORE - 99.3mm/3.91""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1959-80 1969-87 1982-83	SB1937-1 SB1812-1 SB2000-1	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D., ¹ / ₄ Depth,W/ 1.811 & 1.844 Valve Head Dia. 1 ¹³ / ₁₆ O.D.,1 ⁹ / ₁₆ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material 2.000 O.D., ¹ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material,W/ 1.880 Valve Head Dia.
	Exh 1959-85 1959-85 1968-87 1968-87	SB1687-2 SB1687-2N SB1625-1 SB1625-1N	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.563, 1.600 & 1.617 Valve Head Dia. 1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,LPG, W/ 1.563, 1.600 & 1.617 Valve Head Dia. 1 ⁹ / ₈ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.500 & 1.517 Valve Head Dia 1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth,LPG, W/ 1.500 & 1.517 Valve Head Dia.
Valve	Int 1959-68 1969-87 1970-80 1982-83	00514 00938 01186 01180	1.844 Head Diameter,2 Groove 1.780 Head Diameter,2 Groove,+15 O/S Stem Available 1.811 Head Diameter,2 Groove,Premium & Medium H-Duty 1.880 Head Diameter,2 Groove,4 Bbl. Carb., 2 Groove. +15 O/S Stem Available
	Exh 1982-83 1959-68 1968-80 1969-79 1979-87 1982-85	01273 00518 01312S 01329 01419 01417	1.880 Head Diameter,4 Groove,4 Bbl. Carb. 1.563 Head Diameter,4 Groove,W/ Mechanical Lifters 1.517 Head Diameter,Stellite Face, 2 Groove,Premium, Medium H-Duty & LA 1.500 Head Diameter,4 Groove,OEM # 2465339, +15 O/S Stem Available 1.517 Head Diameter,2 Groove,W/ Rotator, 2 & 4 Bbl. Carb., +15 O/S Stem Available 1.617 Head Diameter,2 Groove,H-Duty 4 Bbl. Carb.

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

99 318 C.I., (5.2L), OHV, GAS, CARB, 16 Valve, Vin 8, E, G, P, R, T, U,
(cont.) ""Truck""

CHR318TRU-CA

1959-87

V8 318 CID

BORE - 99.3mm/3.91""

PART		YEARS	PART NO.	NOTES
Valve	Exh	1982-87	01399	1.500 Head Diameter,4 Groove,W/O Rotator
Keeper	Both	1959-87	121-1000	2 RD Bead Type
		1959-87	121-1014	4 RD Bead Type
Stem Seal	Int	1959-87	122-1046	Positive Type,Poly Material,All Rubber Style
	Exh	1959-87	122-1051	Umbrella Type,Poly Material,Umbrella Style
	Both	1959-87	122-1063	Positive Type,Viton Material,All Rubber Style
Guide	Int	1959-87	140-5610	0.3750 I.D.,2.625 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1959-87	140-6113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1959-87	140-9610	0.3750 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	1959-87	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1959-87	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	1959-87	160-1018	1.810 Length,W/ Rotator
		1960-83	160-1020	2.000 Length
		1970-87	160-1122	2.000 Length,W/O Rotator
Rotator	Exh	1959-87	161-1020	
Lifter	Both	1959-68	VL31	Mechanical High Performance Type
		1969-87	VL89	Hydraulic Type
Rocker Components	Both	1967-87	180-1077	Rocker Arm,L.H., Shaft Not Incl.
		1967-87	180-1078	Rocker Arm,R.H., Shaft Not Incl.
		1967-87	186-1100	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	1968-87	190-1450	7.500 Length,+15 O/S (190-1450+15) & +45 O/S (190-1450+45) Available,W/ Hyd. Lifters

100 318 C.I., (5.2L), OHV, GAS, CARB, 16 Valve, ""Motor Home""

CHR318-MH

1969-75

V8 318 CID

BORE - 99.3mm/3.91""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1969-75	SB1937-1	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D., ¹ / ₄ Depth
	Exh	1969-75	SB1625-2N	1 ⁵ / ₈ O.D.,1 ¹ / ₈ I.D., ¹ / ₄ Depth
Valve	Int	1969-75	01186	1.811 Head Diameter,2 Groove,Some Engines Have 1 Groove
	Exh	1969-75	01312S	1.517 Head Diameter,Stellite Face, 2 Groove,Some Engines Have 1 Groove
Keeper	Both	1969-75	121-1000	2 RD Bead Type
Stem Seal	Int	1969-75	122-1046	Positive Type,Poly Material,All Rubber Style
	Exh	1969-75	122-1051	Umbrella Type,Poly Material,Umbrella Style
	Both	1969-75	122-1063	Positive Type,Viton Material,All Rubber Style
Guide	Int	1969-75	140-5610	0.3750 I.D.,2.625 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1969-75	140-6113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1969-75	140-9610	0.3750 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	1969-75	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1969-75	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

318 C.I., (5.2L), OHV, GAS, CARB, 16 Valve, ""Motor Home""
1969-75 V8 318 CID

CHR318-MH 100
BORE - 99.3mm/3.91"" (cont.)

PART	YEARS	PART NO.	NOTES	
Spring	Exh	1969-75	160-1018	1.810 Length,W/ Rotator
	Both	1969-73	160-1020	2.000 Length
		1969-75	160-1122	2.000 Length,W/O Rotator, Exc. H-Duty W/ 4 Bbl. Carb.
Rotator	Exh	1969-75	161-1020	
Lifter	Both	1969-75	VL89	Hydraulic Type
Rocker Components	Both	1969-75	180-1077	Rocker Arm,L.H., Shaft Not Incl.
		1969-75	180-1078	Rocker Arm,R.H., Shaft Not Incl.
		1969-75	186-1100	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	1969-75	190-1450	7.500 Length,+15 O/S (190-1450+15) & +45 O/S (190-1450+45) Available,W/ Hyd. Lifters

318 C.I., (5.2L), OHV, GAS, FI, 16 Valve, Vin Y
1988-03 V8 318 CID

CHR318TRU-FI 101
BORE - 99.3mm/3.91""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-91	SB1812-1	1 ¹³ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
		1992-03	SB2000-36	2.000 O.D.,1 ³ / ₄ I.D., ³ / ₁₆ Depth,W/ 1.920 Valve Head Dia.
	Exh	1988-91	SB1625-1	1 ⁵ / ₈ O.D.,1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.500 & 1.517 Valve Head Dia.
		1992-03	SB1687-16	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ³ / ₁₆ Depth,W/ 1.624 Valve Head Dia.
Valve	Int	1988-91	00938	1.780 Head Diameter,2 Groove,+15 O/S Stem Available
		1992-03	01714	1.920 Head Diameter,W/ .3115 Stem Dia., 1 Groove, +15 O/S Available
	Exh	1988-88	01399	1.500 Head Diameter,4 Groove,W/O Rotator
		1988-91	01419	1.517 Head Diameter,2 Groove,W/ Rotator, +15 O/S Stem Available
	1992-03	01715	1.624 Head Diameter,1 Groove,W/ .3115T Stem Dia., +15 O/S Available	
Keeper	Exh	1988-88	121-1014	4 RD Bead Type
	Both	1988-91	121-1000	2 RD Bead Type
		1992-03	121-1021	1 RD Bead Type
Stem Seal	Int	1992-03	122-1204	Positive Type,Viton Material,Metal Clad Style
	Exh	1992-03	122-1205	Positive Type,Viton Material,Metal Clad Style
	Both	1988-91	122-1232	Positive Type,Viton Material,Metal Clad Style,OEM Seal For OE Guide
Guide	Int	1988-91	140-5610	0.3750 I.D.,2.625 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1988-91	140-6113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1988-91	140-9610	0.3750 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	1992-03	140-7847	0.3135 I.D.,2.250 Length,0.5020 O.D.,W/ .3115 Stem Dia., W/ .534 Seal Boss
		1988-91	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1988-91	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
		1992-03	140-8494	0.3135 I.D.,2.435 Length,0.5020 O.D.,W/ .3115 Stem Dia., W/ .534 Seal Boss
Spring	Int	1988-88	160-1122	2.000 Length,W/O Rotator, Exc. H-Duty W/ 4 Bbl. Carb.
	Exh	1988-88	160-1018	1.810 Length,W/ Rotator
	Both	1992-03	160-1378	1.967 Length,Conical

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

101 318 C.I., (5.2L), OHV, GAS, FI, 16 Valve, Vin Y
(cont.) 1988-03 V8 318 CID

CHR318TRU-FI
BORE - 99.3mm/3.91"

PART		YEARS	PART NO.	NOTES
Rotator	Exh	1988-91	161-1020	
Lifter	Both	1988-03	VL106	Hydraulic Roller Type,W/ Metering Socket.,Always Rotate Oil Hole Up When Installing Lifter
Rocker Components	Both	1988-88	180-1077	Rocker Arm,L.H., W/ Oil Hole
		1988-88	180-1078	Rocker Arm,R.H., W/ Oil Hole
		1989-91	180-1079	Rocker Arm,L.H., W/O Oil Hole
		1989-91	180-1080	Rocker Arm,R.H., W/O Oil Hole
		1992-03	180-1313	Rocker Arm
		1988-91	186-1100	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	1988-88	190-1502	6.802 Length,W/ Hyd. Roller Lifters (Pushrod W/O Oil Hole)
		1989-91	190-1507	6.777 Length,W/ Hyd. Roller Lifters (Pushrod W/ Oil Hole)
		1992-03	190-1525	6.901 Length
Head Bolt Set		1994-03	220-1112	Torque To Yield,Services Engine

102 326 C.I., (5.3L), OHV, GAS, CARB, 16 Valve
1959-59 V8 326 CID

CHR326
BORE - 100.4mm/3.95"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1959-59	SB1937-1	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D., ¹ / ₄ Depth
	Exh	1959-59	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1959-59	00514	1.844 Head Diameter,2 Groove
	Exh	1959-59	00518	1.563 Head Diameter,4 Groove
Keeper	Int	1959-59	121-1000	2 RD Bead Type
	Exh	1959-59	121-1014	4 RD Bead Type
Stem Seal	Both	1959-59	122-1031	Positive Type,Poly Material,2-Ring Style
Guide	Int	1959-59	140-5610	0.3750 I.D.,2.625 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1959-59	140-9610	0.3750 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	1959-59	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1959-59	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)

103 327 C.I., (5.3L), OHV, GAS, CARB, 16 Valve, ""AMC""
1960-70 V8 327 CID

AMC327
BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1960-70	SB1875-1	1 ⁷ / ₈ O.D.,1 ⁵ / ₈ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
	Exh	1960-70	SB1500-1	1 ¹ / ₂ O.D.,1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1960-70	00550	1.787 Head Diameter,4 Groove,4.899 Overall Length
	Exh	1960-70	00549	1.406 Head Diameter,4 Groove,4.892 Overall Length
Keeper	Both	1960-70	121-1014	4 RD Bead Type
Stem Seal	Both	1960-70	122-1040	Positive Type,Poly Material,2-Ring Style
		1960-70	122-1041	Umbrella Type,Poly Material,Umbrella Style
Guide	Both	1960-70	140-1919	0.3740 I.D.,2.250 Length,0.6006 O.D.
Spring	Both	1960-70	160-1140	2.260 Length
Lifter	Both	1961-70	VL89	Hydraulic Type

(Cont'd) CHRYSLER / PASSENGER CAR OR TRUCK**340 C.I., (5.6L), OHV, GAS, CARB, 16 Valve, Vin H, J, P**
1968-73 V8 340 CID**CHR340 104**
BORE - 102.5mm/4.04"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1968-73	2.000 O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth, Also Available In Non-Magnetic (N) Material 2 $\frac{1}{16}$ O.D., 1 $\frac{13}{16}$ I.D., $\frac{1}{4}$ Depth, NOTE: Optional Thick Wall Seat; CAUTION: Due To Thin Wall Castings you must Set Seat In Head $\frac{7}{32}$ and Top W/ Cutter To Avoid Water Jacket 1 $\frac{11}{16}$ O.D., 1 $\frac{7}{16}$ I.D., $\frac{7}{32}$ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		1968-73	
	Exh	1968-73	
Valve	Int	1972-73	1.880 Head Diameter, 4 Groove 1.600 Head Diameter, 4 Groove
	Exh	1968-73	
Keeper	Both	1968-73	4 RD Bead Type
Stem Seal	Int	1968-73	Positive Type, Poly Material, All Rubber Style Umbrella Type, Poly Material, Umbrella Style
	Exh	1968-73	
Guide	Int	1968-73	0.3745 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1968-73	0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Both	1968-73	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1968-73	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	1968-73	1.940 Length, W/ Damper
Lifter	Both	1968-73	VL89 Hydraulic Type
Rocker Components	Both	1968-73	Rocker Arm, L.H., Shaft Not Incl. Rocker Arm, R.H., Shaft Not Incl. Rocker Arm Shaft, 2 Required W/ Hydraulic Lifter
		1968-73	
		1968-73	
Push Rod	Both	1968-73	7.500 Length, +15 O/S (190-1450+15) & +45 O/S (190-1450+45) Available

343 C.I., (5.6L), OHV, GAS, CARB, 16 Valve, Vin J, K, Q, R, S, T, V, W, X, Z
"AMC"
1967-69 V8 343 CID**AMC343 105**
BORE - 103.6mm/4.08"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1967-69	2 $\frac{1}{8}$ O.D., 1 $\frac{13}{16}$ I.D., $\frac{1}{4}$ Depth 1 $\frac{11}{16}$ O.D., 1 $\frac{7}{16}$ I.D., $\frac{7}{32}$ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1967-69	
Valve	Int	1967-69	2.025 Head Diameter, 1 Groove 1.625 Head Diameter, 1 Groove
	Exh	1967-69	
Keeper	Both	1967-69	1 SQ Bead Type
Stem Seal	Both	1967-69	Positive Type, Poly Material, 2-Ring Style Umbrella Type, GF Nylon Material, Umbrella Style
		1967-69	
Guide	Both	1967-69	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1967-69	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	1967-69	2.068 Length
Lifter	Both	1967-69	VL89 Hydraulic Type
Rocker Components	Both	1967-69	181-1021 Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) $\frac{3}{8}$ Nut

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

105 343 C.I., (5.6L), OHV, GAS, CARB, 16 Valve, Vin J, K, Q, R, S, T, V, W, X, Z,
(cont.) ""AMC""

AMC343

1967-69

V8 343 CID

BORE - 103.6mm/4.08""

PART		YEARS	PART NO.	NOTES
Rocker Components	Both	1967-69	184-1023	Stud, 3/8-7/16
		1967-69	184-1038	Nut, 3/8
Push Rod	Both	1967-69	192-1381	7.735 Length

106 345 C.I., (5.7L), OHV, ELECTRIC/GAS, FLEX, GAS, FI, 16 Valve, Vin 2, D, H, T,
""HEMI""

CHR345

2003-21

V8 345 CID

BORE - 99.57mm/3.92""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2003-08	SB2062-52	2 1/16 O.D., 1 3/4 I.D., 0.2800 Depth
		2003-08	SB2062-52PM	2 1/16 O.D., 1 3/4 I.D., 0.2800 Depth, OEM Equivalent PM Material
		2009-21	SB2187-50	2 3/16 O.D., 1.820T I.D., 0.3410 Depth
		2009-21	SB2187-50PM	2 3/16 O.D., 1.820T I.D., 0.3410 Depth, OEM Equivalent PM Material
	Exh	2003-21	SB1625-62	1 5/8 O.D., 1.320 I.D., 0.3000 Depth, Seat May Need To Be Machined To Achieve Correct Depth
		2003-21	SB1625-62PM	1 5/8 O.D., 1.320 I.D., 0.3000 Depth, OEM Equivalent PM Material
Valve	Int	2003-08	02103	2.000 Head Diameter
		2009-21	13194	2.050 Head Diameter
	Exh	2003-08	02220	1.555 Head Diameter
		2009-21	13195	1.552 Head Diameter
Keeper	Both	2003-21	121-1083	3 RD Bead Type
Stem Seal	Both	2003-08	122-1354	Positive Type, Viton Material, Top Hat Style
		2009-21	122-1425	Positive Type, Viton Material, Metal Clad Style
Guide	Int	2003-08	140-3031	0.3145 I.D., 2.185 Length, 0.5250 O.D., +2 O/S Available
	Exh	2003-08	140-3032	0.3155 I.D., 2.185 Length, 0.5250 O.D., +2 O/S Available
	Both	2009-21	140-3156	0.3145 I.D., 2.185 Length, 0.5250 O.D., +2 O/S Available, +2 O/S Available
Spring	Both	2003-08	160-1450	2.148 Length, Conical, W/External Shroud, NOTE: This Spring Replaces Earlier Spring W/O Shroud, MUST REPLACE IN SETS
		2009-21	160-1642SSA	2.370 Length, Conical, Spring & Shim Assy., NOTE: The Valve Spring Assembly Utilizes A 1mm Spring Seat. Per OEM, Ensure Removal of 2mm Spring Seat And Replace It With The 1mm Spring Seat Included In This Spring Assembly.
Lifter	Both	2003-20	VL555LA	Non-MDS-Hydraulic Roller Assy. Type, NOTE: Non MDS Lifter Assembly; Includes: 4 Lifters, Yoke & Hex Flange Head Screw; 4 Required Per Engine
		2005-21	VL556LA	Front-MDS-Hydraulic Roller Assy. Type, NOTE: Front MDS Lifter Assembly; Includes: 2 MDS & 2 Non MDS Lifters, Yoke & Hex Flange Head Screw; 2 Required Per Engine.
		2005-21	VL557LA	Rear-MDS-Hydraulic Roller Assy. Type, NOTE: Rear MDS Lifter Assembly; Includes: 2 MDS & 2 Non MDS Lifters, Yoke & Hex Flange Head Screw; 2 Required Per Engine.
Push Rod	Int	2003-08	190-1544	6.610 Length
		2009-21	190-1549	6.792 Length, NOTE: OEM Equivalent 0.075"" Thick Wall
	Exh	2003-08	190-1545	7.838 Length
		2009-21	190-1550	8.085 Length, NOTE: OEM Equivalent 0.075"" Thick Wall
Head Bolt Set		2003-17	220-1105	Torque To Yield, Services Engine
Head Saver Shim		2003-21	230-2162L	Left, New Hgt. - 4.6330 - Min. Hgt. N/A
		2003-21	230-2162R	Right, New Hgt. - 4.6330 - Min. Hgt. N/A

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

354 C.I., (5.8L), OHV, GAS, CARB, 16 Valve
1956-56 V8 354 CID

CHR354 107

BORE - 100mm/3.94"

PART	YEARS	PART NO.	NOTES
Guide	Int	1956-56 140-1803	0.3745 I.D.,2.938 Length,0.6895 O.D.
	Exh	1956-56 140-1740	0.3745 I.D.,2.813 Length,0.6893 O.D.

359 C.I., (5.9L), OHV, DIESEL, FI, 12 Valve, Vin 8, C, D, ""Cummins 6B TURBO""

CHR5.9TD_12V 108

1989-98 L6 359 CID

BORE - 102mm/4.02"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1989-98 1989-98 SB1853E-1 SB1875-8	1.853 O.D.,1.498T I.D.,0.2730 Depth,OEM Replacement 1 ⁷ / ₈ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Head W/O OEM Seat
	Exh	1989-98 1989-98 SB1722E-1 SB1750-7	1.722 O.D.,1.357T I.D.,0.2650 Depth,OEM Replacement 1 ³ / ₄ O.D.,1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Head W/O OEM Seat
Valve	Int	1989-98 1989-98 01665 01665R	1.772 Head Diameter,W/ 30 Degree Seat 1.772 Head Diameter,NOTE: Optional Performance Valve, See Performance Catalog For Details
	Exh	1989-98 1989-98 01664 01664R	1.654 Head Diameter,W/ 45 Degree Seat 1.654 Head Diameter,NOTE: Optional Performance Valve, See Performance Catalog For Details
Keeper	Both	1989-98 121-1079	1 RD Bead Type
Stem Seal	Int	1989-98 122-1269	Positive Type,Viton Material,Ring & Band Style,Orange Color Seal
	Exh	1989-98 122-1053	Positive Type,Viton Material,Ring & Band Style,Black Color Seal
Guide	Int	1989-98 1989-98 140-8177 140-8177SA	0.3162 I.D.,2.382 Length,0.5528 O.D. 0.3162 I.D.,2.382 Length,0.5528 O.D.,""Special Alloy"", For Ultra Low Sulfur Diesel
	Exh	1989-98 1989-98 140-8178 140-8178SA	0.3160 I.D.,2.052 Length,0.5528 O.D. 0.3160 I.D.,2.052 Length,0.5528 O.D.,""Special Alloy"", For Ultra Low Sulfur Diesel
	Both	1989-98 140-8277	0.3162 I.D.,2.500 Length,0.4393 O.D.,W/O Seal Boss, Universal Length
Spring	Exh	1989-98 160-1650	2.875 Length,Barrel Shaped,Note: W/ Exhaust Brake, 60lbs Additional Seat Pressure.
	Both	1989-96 1997-98 160-1348 160-1379	2.235 Length 2.385 Length
Lifter	Both	1989-98 VL156	Mechanical Type
Push Rod	Both	1989-98 190-1530	10.910 Length
Head Saver Shim		1989-98 230-2174	New Hgt. - 3.747 - 3.749; Min. Hgt. - 3.700

359 C.I., (5.9L), OHV, DIESEL, FI, 24 Valve, Vin 6, 7, C, ""Cummins ISB TURBO""

CHR5.9TD-24V 109

1998-09 L6 359 CID

BORE - 102mm/4.02"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1998-09 SB1375E-1	1.375 O.D.,1.100T I.D.,0.2270 Depth,OEM Replacement, +10 O/S Available
	Exh	1998-09 SB1375E-2N	1.375 O.D.,1.100T I.D.,0.2270 Depth,OEM Replacement, +5, +10 & +20 O/S Available
Valve	Int	1998-09 1998-09 02014 02014R	1.299 Head Diameter,30 Degree Seat 1.299 Head Diameter,NOTE: Optional Performance Valve, See Performance Catalog For Details
	Exh	1998-04 02015	1.299 Head Diameter,45 Degree Seat; NOTE: Vin 6 Only, Except High Output & Motorhomes

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

109 359 C.I., (5.9L), OHV, DIESEL, FI, 24 Valve, Vin 6, 7, C, ""Cummins ISB
(cont.) **TURBO**""

CHR5.9TD-24V

1998-09

L6 359 CID

BORE - 102mm/4.02""

PART		YEARS	PART NO.	NOTES
Valve	Exh	1998-09	13006R	1.299 Head Diameter,NOTE: Optional Performance Valve, See Performance Catalog For Details
		2002-09	13006	1.299 Head Diameter,W/ Letter ""N"" In Head; NOTE: High Output; Check Casting Or VIN For Correct Material
		2002-09	13161	1.299 Head Diameter,Inconel,W/ Letter ""O"" In Head; NOTE: High Output; Check Casting Or VIN For Correct Material
Keeper	Both	1998-09	121-1097	1 RD Bead Type
Stem Seal	Int	1998-02	122-1335	Positive Type,Viton Material,Metal Clad Style,Yellow
		2003-09	122-1370	Positive Type,Viton Material,Top Hat Style,Yellow
	Exh	1998-02	122-1334	Positive Type,Viton Material,Metal Clad Style,Green
		2003-09	122-1371	Positive Type,Viton Material,Top Hat Style,Green
Guide	Int	1998-04	140-3021	0.2776 I.D.,1.937 Length,0.5015 O.D.,Replacement Guide for OEM Integral Guide, Use on Cylinder Head with Single Flange on guide, Seal Boss Length 0.360
		1998-09	140-3033	0.2776 I.D.,1.937 Length,0.5015 O.D.,Replacement Guide for OEM Integral Guide, Use for cylinder head with Dual Flange on guide, Seal Boss Length 0.334
		1998-09	140-3080	0.2775 I.D.,1.937 Length,0.4395 O.D.,NOTE: Optional O.D.; Guide W/O Seal Boss. Does Not Require Special Tooling.
	Exh	1998-04	140-3022	0.2776 I.D.,2.020 Length,0.5015 O.D.,Replacement Guide for OEM Integral Guide, Use on Cylinder Head with Single Flange on guide, Seal Boss Length 0.360
		1998-09	140-3034	0.2780 I.D.,2.020 Length,0.5015 O.D.,Replacement Guide for OEM Integral Guide, Use for cylinder head with Dual Flange on guide, Seal Boss Length 0.334
		1998-09	140-3081	0.2775 I.D.,2.020 Length,0.4395 O.D.,NOTE: Optional O.D.; Guide W/O Seal Boss. Does Not Require Special Tooling.
Spring	Both	1998-09	160-1484	1.852 Length
		1998-09	360-1020	2.035 Length,NOTE: Optional Performance Valve Spring, See Performance Catalog For Details
Rotator		1998-09	161-1081	
Lifter	Both	1998-02	VL554	Mechanical Type,OEM # 5011790AA; NOTE: W/ 1.300 Cam Face Diameter
		2003-09	VL565	Mechanical Type,OEM # 5086736AA; NOTE: W/ 1.496 Cam Face Diameter
Push Rod	Both	1998-09	190-1554	11.435 Length
Head Saver Shim		1998-09	230-2175	New Hgt. - 4.136 - 4.137; Min Hgt. - 4.124

110 360 C.I., (5.9L), OHV, GAS, CARB, 16 Valve, Vin 7, N, P, ""AMC""
1970-91 V8 360 CID

AMC360

BORE - 103.6mm/4.08""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1970-91	SB2125-1	2 ¹ / ₈ O.D.,1 ¹¹ / ₁₆ I.D., ¹ / ₄ Depth
		1970-70	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.625 Valve Head Dia.
		1970-91	SB1750-2	1 ³ / ₄ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.680 Valve Head Dia.
Valve	Int	1970-72	01048	2.025 Head Diameter,1 Groove
		1973-91	01258	2.025 Head Diameter,4 Groove,+15 O/S Stem Available
	Exh	1970-70	01047	1.625 Head Diameter,1 Groove
		1970-72	01179	1.680 Head Diameter,1 Groove
		1973-74	01257	1.680 Head Diameter,1 Groove, ¹¹ / ₃₂ Groove Dia.

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

360 C.I., (5.9L), OHV, GAS, CARB, 16 Valve, Vin 7, N, P, ""AMC""
1970-91 V8 360 CID

AMC360 110
BORE - 103.6mm/4.08"" (cont.)

PART	YEARS	PART NO.	NOTES
Valve	Exh 1975-91	01326	1.680 Head Diameter,4 Groove,+15 O/S Stem Available
Keeper	Exh 1973-74	121-1003	1 SQ Bead Type,1 ¹ / ₂ Stem In Groove Area
	Both 1970-72	121-1007	1 SQ Bead Type, ³ / ₈ Stem, Exc. Exhaust 1971-72
	1973-91	121-1014	4 RD Bead Type, ³ / ₈ Stem, Exc. Exhaust 1973-74
Stem Seal	Both 1970-91	122-1031	Positive Type,Poly Material,2-Ring Style
	1970-91	122-1059	Umbrella Type,GF Nylon Material,Umbrella Style
Guide	Int 1970-91	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
	Exh 1970-78	140-7298	0.3730 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
	1970-78	140-9298	0.3729 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	1970-91	140-6113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
	1970-91	140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Both 1970-78	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Also Available (140-6108U)
Spring	Exh 1973-75	160-1134	1.990 Length
	Both 1970-77	160-1164	2.200 Length,Exc. 1975-77 Police, 1973-75 Int. Only
	1978-91	160-1023	2.034 Length,W/O Rotator, Jeep
Lifter	Both 1970-91	VL89	Hydraulic Type
Rocker Components	Both 1970-73	181-1021	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut
	1971-73	184-1023	Stud, ³ / ₈ - ⁷ / ₁₆
	1971-73	184-1038	Nut, ³ / ₈
	1974-91	181-1032	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
	1974-91	183-1014	Fulcrum, Short
	1974-91	183-1028	Bridge,When Replacing, Fulcrum # 183-1014 Must Also Be Used
Push Rod	Both 1970-91	192-1331	7.793 Length

360 C.I., (5.9L), OHV, GAS, CARB, 16 Valve
1975-77 V8 360 CID

CHR360-3-5/6 111
BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1975-77	SB1937-1	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D., ¹ / ₄ Depth
	Exh 1975-77	SB1625-2	1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int 1975-77	01186	1.811 Head Diameter,2 Groove
	Exh 1975-77	01312S	1.517 Head Diameter,Stellite Face, 2 Groove
Keeper	Both 1975-77	121-1000	2 RD Bead Type
Stem Seal	Int 1975-77	122-1046	Positive Type,Poly Material,All Rubber Style
	Exh 1975-77	122-1051	Umbrella Type,Poly Material,Umbrella Style
	Both 1975-77	122-1063	Positive Type,Viton Material,All Rubber Style
Guide	Both 1975-77	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Also Available (140-6108U)
	1975-77	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Exh 1975-77	160-1018	1.810 Length,W/ Rotator

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

111 360 C.I., (5.9L), OHV, GAS, CARB, 16 Valve
(cont.) 1975-77 V8 360 CID

CHR360-3-5/6
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Spring	Both	1975-76	160-1150	1.940 Length,W/ Damper,1975 Hi-Perf. Eng., 1976 Hi-Perf. W/O Calif. Emission
		1975-77	160-1020	2.000 Length
		1976-77	160-1122	2.000 Length,W/O Rotator, Exc. Hi-Perf. Eng.
Rotator	Exh	1975-77	161-1020	
Lifter	Both	1975-77	VL89	Hydraulic Type
Rocker Components	Both	1975-77	180-1077	Rocker Arm,L.H., Shaft Not Incl.
		1975-77	180-1078	Rocker Arm,R.H., Shaft Not Incl.
		1975-77	186-1100	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	1975-77	190-1450	7.500 Length,+15 O/S (190-1450+15) & +45 O/S (190-1450+45) Available

112 360 C.I., (5.9L), OHV, GAS, CARB, 16 Valve, ""Motor Home""
1976-79 V8 360 CID

CHR360-3MH
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1976-79	SB1937-1	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D., ¹ / ₄ Depth
		1976-79	SB2000-1	2.000 O.D.,1 ³ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material,W/ 1.880 Valve Head Dia.
	Exh	1976-79	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.600 Valve Head Dia.
		1976-79	SB1875-1	1 ⁷ / ₈ O.D.,1 ⁵ / ₈ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material,W/ 1.740 Valve Head Dia.
Valve	Int	1976-77	01273	1.880 Head Diameter,4 Groove
		1978-79	01186	1.811 Head Diameter,2 Groove
	Exh	1976-77	01156	1.740 Head Diameter,4 Groove,+15 O/S Stem Available
		1978-79	01309	1.600 Head Diameter,2 Groove
Keeper	Exh	1976-77	121-1014	4 RD Bead Type
	Both	1976-79	121-1000	2 RD Bead Type,Exc. Exhaust 1976-77
Guide	Both	1976-79	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Exh	1976-76	160-1018	1.810 Length,W/ Rotator
	Both	1976-76	160-1150	1.940 Length,W/ Damper,W/O Rotator, Hi-Perf W/O Calif. Emission
		1976-79	160-1020	2.000 Length
		1976-79	160-1122	2.000 Length,W/O Rotator, Exc. Hi-Perf. Eng.
Rotator	Exh	1976-79	161-1020	
Lifter	Both	1976-79	VL89	Hydraulic Type
Rocker Components	Both	1976-79	180-1077	Rocker Arm,L.H., Shaft Not Incl.
		1976-79	180-1078	Rocker Arm,R.H., Shaft Not Incl.
		1976-79	186-1100	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	1976-79	190-1450	7.500 Length,+15 O/S (190-1450+15) & +45 O/S (190-1450+45) Available

113 360 C.I., (5.9L), OHV, GAS, CARB, 16 Valve, Vin J, K, L, ""Passenger Car""
1971-80 V8 360 CID

CHR360CAR
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1971-80	SB2000-1	2.000 O.D.,1 ³ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

360 C.I., (5.9L), OHV, GAS, CARB, 16 Valve, Vin J, K, L, ""Passenger Car"" CHR360CAR 113
1971-80 V8 360 CID BORE - 101.6mm/4.00"" (cont.)

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1971-80	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ¹⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int 1971-73 1974-80 Exh 1971-80	01180 01273 01307	1.880 Head Diameter, 2 Groove, +15 O/S Stem Available 1.880 Head Diameter, 4 Groove 1.600 Head Diameter, 4 Groove, Except 1979-80 4 Bbl. Carb., 4 Groove
Keeper	Int 1971-73 Both 1971-80	121-1000 121-1014	2 RD Bead Type 4 RD Bead Type
Stem Seal	Int 1971-80 Exh 1971-80	122-1046 122-1051	Positive Type, Poly Material, All Rubber Style Umbrella Type, Poly Material, Umbrella Style
Guide	Both 1971-80 1971-80	140-6108 140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U) 0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both 1971-80 1974-76 1975-80	160-1122 160-1150 160-1020	2.000 Length, W/O Rotator, Exc. Hi-Perf. & 1975 Eng. 1.940 Length, W/ Damper, 1974-75 Hi-Perf. Eng., 1976 W/O Calif. Emission 2.000 Length
Lifter	Both 1971-80	VL89	Hydraulic Type
Rocker Components	Both 1971-80 1971-80 1971-80	180-1077 180-1078 186-1100	Rocker Arm, L.H., Shaft Not Incl. Rocker Arm, R.H., Shaft Not Incl. Rocker Arm Shaft, 2 Required W/ Hydraulic Lifter
Push Rod	Both 1971-80	190-1450	7.500 Length, +15 O/S (190-1450+15) & +45 O/S (190-1450+45) Available

360 C.I., (5.9L), OHV, GAS, CARB, 16 Valve, Vin 1, 5, F, K, S, T, U, W, Y, 114
""Truck"" CHR360TRU
1971-88 V8 360 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1971-88 Exh 1971-88 1971-88	SB2000-1 SB1687-2 SB1687-2N	2.000 O.D., 1 ³ / ₄ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material 1 ¹¹ / ₁₆ O.D., 1 ¹⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1 ¹¹ / ₁₆ O.D., 1 ¹⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth, LPG, W/ 1.600 & 1.617 Valve Head Dia.
Valve	Int 1971-77 1978-88 Exh 1971-77 1971-78 1978-88	01180 01273 01309 01307 01417	1.880 Head Diameter, 2 Groove, +15 O/S Stem Available 1.880 Head Diameter, 4 Groove 1.600 Head Diameter, 2 Groove 1.600 Head Diameter, 4 Groove 1.617 Head Diameter, 2 Groove
Keeper	Int 1978-88 Both 1971-88	121-1014 121-1000	4 RD Bead Type 2 RD Bead Type
Stem Seal	Int 1971-88 Exh 1971-88	122-1046 122-1051	Positive Type, Poly Material, All Rubber Style Umbrella Type, Poly Material, Umbrella Style
Guide	Both 1971-88 1971-88	140-6108 140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U) 0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

114 360 C.I., (5.9L), OHV, GAS, CARB, 16 Valve, Vin 1, 5, F, K, S, T, U, W, Y,
(cont.) ""Truck""

CHR360TRU

1971-88

V8 360 CID

BORE - 101.6mm/4.00""

PART		YEARS	PART NO.	NOTES
Spring	Both	1971-88	160-1018	1.810 Length,W/ Rotator
		1971-88	160-1122	2.000 Length,W/O Rotator, 1971-74, 1976-80 All Exc. Hi-Perf. Eng.
		1974-76	160-1150	1.940 Length,W/ Damper,1974-75 Hi-Perf. Eng., 1976 W/O Calif. Emission
		1975-80	160-1020	2.000 Length
Rotator	Exh	1971-88	161-1020	
Lifter	Both	1971-88	VL89	Hydraulic Type
Rocker Components	Both	1971-88	180-1077	Rocker Arm,L.H., Shaft Not Incl.
		1971-88	180-1078	Rocker Arm,R.H., Shaft Not Incl.
		1971-88	186-1100	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	1971-88	190-1450	7.500 Length,+15 O/S (190-1450+15) & +45 O/S (190-1450+45) Available

115 360 C.I., (5.9L), OHV, GAS, FI, 16 Valve, Vin 5, Z

CHR360TRU-FI

1989-03

V8 360 CID

BORE - 101.6mm/4.00""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1989-92	SB2000-1	2.000 O.D.,1 ³ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material,W/ 1.880 Valve Head Dia.
		1993-03	SB2000-36	2.000 O.D.,1 ³ / ₄ I.D., ³ / ₁₆ Depth,W/ 1.920 Valve Head Dia.
	Exh	1989-92	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.617 Valve Head Dia.
		1993-03	SB1687-16	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁹ / ₁₆ Depth,W/ 1.624 Valve Head Dia.
Valve	Int	1989-92	01273	1.880 Head Diameter,4 Groove,0.375 Stem Dia.
		1993-03	01714	1.920 Head Diameter,1 Groove, W/ .3115 Stem Dia., +15 O/S Available
	Exh	1989-89	01417	1.617 Head Diameter,2 Groove
		1990-92	01675	1.617 Head Diameter,2 Groove,W/ .3716 Stem Dia.
		1993-03	01715	1.624 Head Diameter,1 Groove,W/ .3115T Stem Dia., +15 O/S Available
Keeper	Int	1989-92	121-1014	4 RD Bead Type
	Exh	1989-92	121-1000	2 RD Bead Type
	Both	1993-03	121-1021	1 RD Bead Type
Stem Seal	Int	1993-03	122-1204	Positive Type,Viton Material,Metal Clad Style
	Exh	1993-03	122-1205	Positive Type,Viton Material,Metal Clad Style
	Both	1989-92	122-1232	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1993-03	140-7847	0.3135 I.D.,2.250 Length,0.5020 O.D.,W/ .3115 Stem Dia., W/ .534 Seal Boss
	Exh	1993-03	140-8494	0.3135 I.D.,2.435 Length,0.5020 O.D.,W/ .3115 Stem Dia., W/ .534 Seal Boss
	Both	1989-92	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	1993-03	160-1378	1.967 Length,Conical
Rotator	Exh	1989-92	161-1020	
Lifter	Both	1989-03	VL106	Hydraulic Roller Type,W/ Metering Socket.,Always Rotate Oil Hole Up When Installing Lifter
Rocker Components	Both	1989-91	180-1079	Rocker Arm,L.H.
		1989-91	180-1080	Rocker Arm,R.H.
		1992-03	180-1313	Rocker Arm
		1989-91	186-1100	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

360 C.I., (5.9L), OHV, GAS, FI, 16 Valve, Vin 5, Z
1989-03 V8 360 CID

CHR360TRU-FI 115
BORE - 101.6mm/4.00" (cont.)

PART	YEARS	PART NO.	NOTES	
Push Rod	Both	1989-92	190-1507	6.777 Length
		1993-03	190-1525	6.901 Length
Head Bolt Set	1994-03	220-1112	Torque To Yield,Services Engine	

361 C.I., (5.9L), OHV, GAS, CARB, 16 Valve, Vin F, ""Passenger Car B Short Deck""

CHR361CAR 116
BORE - 104.775mm/4.125" V8 361 CID

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1959-66	SB2250-1	2¼ O.D.,1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	1959-66	SB1750-2	1¾ O.D.,1½ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.680 Valve Head Dia.
Valve	Int	1959-66	00548	2.080 Head Diameter,2 Groove
	Exh	1959-66	00520	1.600 Head Diameter,4 Groove
Keeper	Int	1959-66	121-1000	2 RD Bead Type
	Exh	1959-66	121-1014	4 RD Bead Type
Stem Seal	Both	1959-66	122-1031	Positive Type,Poly Material,2-Ring Style
Guide	Int	1959-66	140-6113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
	Exh	1959-66	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1959-66	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	1959-66	160-1143	2.610 Length,W/O Rotator
Lifter	Both	1959-66	VL8	Hydraulic Type
Rocker Components	Both	1959-66	180-1055	Rocker Arm,L.H.
		1959-66	180-1056	Rocker Arm,R.H.

361 C.I., (5.9L), OHV, GAS, CARB, 16 Valve, ""Truck B Short Deck""
1960-77 V8 361 CID

CHR361TRU 117
BORE - 104.775mm/4.125" V8 361 CID

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1960-77	SB2000-1	2.000 O.D.,1¼ I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material
	Exh	1960-77	SB1624E-1N	1.624 O.D.,1-21/64 I.D., ³ / ₈ Depth
Keeper	Int	1960-77	121-1014	4 RD Bead Type
	Exh	1960-77	121-1000	2 RD Bead Type
Stem Seal	Int	1960-77	122-1031	Positive Type,Poly Material,2-Ring Style
Guide	Int	1960-66	140-6113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
	Exh	1960-66	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1960-66	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
	1960-77	140-1839	0.4385 I.D.,3.090 Length,0.6887 O.D.	
Spring	Int	1960-77	160-1143	2.610 Length,W/O Rotator
Lifter	Both	1960-68	VL8	Hydraulic Type,To S/N 21680000
		1969-77	VL64	Hydraulic Type,From S/N 21680000
Rocker Components	Both	1960-77	180-1055	Rocker Arm,L.H.
		1960-77	180-1056	Rocker Arm,R.H.

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

118 370 C.I., (6.1L), OHV, GAS, FI, 16 Valve, Vin 3, W, ""HEMI""
2005-10 V8 370 CID

CHR370
BORE - 103mm/4.06""

PART		YEARS	PART NO.	NOTES
Valve	Int	2005-10	13206	2.079 Head Diameter
	Exh	2005-10	13207	1.595 Head Diameter
Keeper	Both	2005-10	121-1083	3 RD Bead Type
Stem Seal	Int	2005-10	122-1423	Positive Type,Viton Material,Top Hat Style
	Exh	2005-10	122-1354	Positive Type,Viton Material,Top Hat Style
Guide	Both	2005-10	140-3165	0.3142 I.D.,2.185 Length,0.5250 O.D.,+2 O/S Available
Spring	Int	2005-10	160-1627	2.134 Length,Conical W/ External Shroud
	Exh	2005-10	160-1628	2.024 Length,Conical W/ External Shroud
Lifter	Both	2005-10	VL555LA	Non-MDS-Hydraulic Roller Assy. Type,NOTE: Non MDS Lifter Assembly; Includes: 4 Lifters, Yoke & Hex Flange Head Screw; 4 Required Per Engine
Push Rod	Int	2005-10	190-1551	6.650 Length
	Exh	2005-10	190-1552	7.870 Length
Head Bolt Set		2005-10	220-1105	Torque To Yield,Services Engine

119 376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin 9, ESD, ""Supercharged HEMI""

2015-21 V8 376 CID

CHR6.2-HEMI
BORE - 103.9mm/4.09""

PART		YEARS	PART NO.	NOTES
Keeper	Both	2015-20	121-1083	3 RD Bead Type
Stem Seal	Both	2015-20	122-1425	Positive Type,Viton Material,Metal Clad Style
Push Rod	Int	2015-20	190-1549	6.792 Length,NOTE: OEM Equivalent 0.075"" Thick Wall
	Exh	2015-20	190-1550	8.085 Length,NOTE: OEM Equivalent 0.075"" Thick Wall

120 383 C.I., (6.3L), OHV, GAS, CARB, 16 Valve, Vin 8, G, H, J, L, N

1959-71 V8 383 CID

CHR383
BORE - 107.9mm/4.25""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1959-71	SB2250-1	2¼ O.D.,1½ ⁵ / ₁₆ I.D.,¾ Depth
		1959-67	SB1750-4	1¾ O.D.,1 ⁷ / ₁₆ I.D.,¼ Depth,Also Available In Non-Magnetic (N) Material,W/ 1.600 Valve Head Dia.
	Exh	1968-71	SB1875-1	1 ⁷ / ₈ O.D.,1 ⁵ / ₈ I.D.,¼ Depth,Also Available In Non-Magnetic (N) Material,W/ 1.740 Valve Head Dia.
		1968-71	SB1875-9	1 ⁷ / ₈ O.D.,1½ I.D.,¼ Depth,Optional W/1.740 Valve Head Dia.
Valve	Int	1959-71	00548	2.080 Head Diameter,2 Groove
	Exh	1959-67	00520	1.600 Head Diameter,4 Groove
		1968-71	01156	1.740 Head Diameter,4 Groove,+15 O/S Stem Available
Keeper	Int	1959-71	121-1000	2 RD Bead Type
	Exh	1959-71	121-1014	4 RD Bead Type
Stem Seal	Int	1959-71	122-1046	Positive Type,Poly Material,All Rubber Style
	Exh	1959-71	122-1051	Umbrella Type,Poly Material,Umbrella Style
Guide	Both	1959-71	140-6113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1959-71	140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1959-71	160-1143	2.610 Length,W/ 2 Bbl. Carb., W/O Rotator
		1968-71	160-1149	2.230 Length,W/ Damper,W/ 4 Bbl. Carb.
Lifter	Both	1959-67	VL8	Hydraulic Type,Use W/ .312 X .250 Push Rod Ball, N/A
		1968-71	VL64	Hydraulic Type,Use W/ 190-1408 Push Rod
Rocker Components	Both	1959-71	180-1055	Rocker Arm,L.H.
		1959-71	180-1056	Rocker Arm,R.H.

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

383 C.I., (6.3L), OHV, GAS, CARB, 16 Valve, Vin 8, G, H, J, L, N
1959-71 V8 383 CID

CHR383 120
BORE - 107.9mm/4.25" (cont.)

PART	YEARS	PART NO.	NOTES
Push Rod	Both 1968-71	190-1408	8.575 Length

390 C.I., (6.4L), OHV, GAS, CARB, 16 Valve, Vin W, X, Y, ""AMC""
1968-70 V8 390 CID

AMC390 121
BORE - 105.9mm/4.165"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1968-70	SB2000-1	2.000 O.D., 1 $\frac{3}{4}$ I.D., $\frac{7}{32}$ Depth, Also Available In Non-Magnetic (N) Material
	Exh 1968-70	SB1687-2	1 $\frac{1}{16}$ O.D., 1 $\frac{7}{16}$ I.D., $\frac{7}{32}$ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.625 Valve Head Dia.
	1970-70	SB1750-2	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia.
Valve	Int 1968-70	01048	2.025 Head Diameter, 1 Groove
	Exh 1968-70	01047	1.625 Head Diameter, 1 Groove, To Early 1970
	1970-70	01179	1.680 Head Diameter, 1 Groove, From Late 1970
Keeper	Both 1968-70	121-1007	1 SQ Bead Type
Stem Seal	Both 1968-70	122-1031	Positive Type, Poly Material, 2-Ring Style
	1968-70	122-1059	Umbrella Type, GF Nylon Material, Umbrella Style
Guide	Both 1968-70	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
	1968-70	140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both 1968-70	160-1161	2.068 Length
Lifter	Both 1968-70	VL89	Hydraulic Type
Rocker Components	Both 1968-70	181-1021	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) $\frac{3}{8}$ Nut
	1968-70	184-1023	Stud, $\frac{3}{8}$ - $\frac{7}{16}$
	1968-70	184-1038	Nut, $\frac{3}{8}$
Push Rod	Both 1968-69	192-1381	7.735 Length
	1970-70	192-1331	7.793 Length

392 C.I., (6.4L), OHV, GAS, CARB, 16 Valve
1957-58 V8 392 CID

CHR392 122
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES
Guide	Int 1957-58	140-1803	0.3745 I.D., 2.938 Length, 0.6895 O.D.
	Exh 1957-58	140-1740	0.3745 I.D., 2.813 Length, 0.6893 O.D.
Lifter	Both 1957-58	VL8	Hydraulic Type

392 C.I., (6.4L), OHV, GAS, FI, 16 Valve, Vin J, ""SRT-8 HEMI""
2011-21 V8 392 CID

CHR6.4-SRT8 123
BORE - 103.9mm/4.09"

PART	YEARS	PART NO.	NOTES
Keeper	Both 2011-20	121-1083	3 RD Bead Type
Stem Seal	Both 2011-19	122-1425	Positive Type, Viton Material, Metal Clad Style
Guide	Both 2011-20	140-3156	0.3145 I.D., 2.185 Length, 0.5250 O.D., +2 O/S Available
Spring	Both 2011-18	160-1642SSA	2.370 Length, Conical, Spring & Shim Assy., ESG. NOTE: The Valve Spring Assembly Utilizes A 1mm Spring Seat. Per OEM, Ensure Removal of 2mm Spring Seat And Replace It With The 1mm Spring Seat Included In This Spring Assembly.

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

123 392 C.I., (6.4L), OHV, GAS, FI, 16 Valve, Vin J, ""SRT-8 HEMI"" CHR6.4-SRT8
 (cont.) 2011-21 V8 392 CID BORE - 103.9mm/4.09""

PART		YEARS	PART NO.	NOTES
Lifter	Both	2011-20	VL555LA	Non-MDS-Hydraulic Roller Assy. Type,NOTE: Non MDS Lifter Assembly; Includes: 4 Lifters, Yoke & Hex Flange Head Screw; 4 Required Per Engine
		2011-20	VL556LA	Front-MDS-Hydraulic Roller Assy. Type,NOTE: Front MDS Lifter Assembly; Includes: 2 MDS & 2 Non MDS Lifters, Yoke & Hex Flange Head Screw; 2 Required Per Engine.
		2011-20	VL557LA	Rear-MDS-Hydraulic Roller Assy. Type,NOTE: Rear MDS Lifter Assembly; Includes: 2 MDS & 2 Non MDS Lifters, Yoke & Hex Flange Head Screw; 2 Required Per Engine.
Push Rod	Int	2011-20	190-1549	6.792 Length,NOTE: OEM Equivalent 0.075"" Thick Wall
	Exh	2011-20	190-1550	8.085 Length,NOTE: OEM Equivalent 0.075"" Thick Wall

124 392 C.I., (6.4L), OHV, GAS, FI, 16 Valve, Vin J, ESA, ESB, ""HEMI"" CHR6.4-ESA_B
 2014-20 V8 392 CID BORE - 103.9mm/4.09""

PART		YEARS	PART NO.	NOTES
Keeper	Both	2014-20	121-1083	3 RD Bead Type
Stem Seal	Both	2014-20	122-1425	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2014-20	140-3156	0.3145 I.D.,2.185 Length,0.5250 O.D.,+2 O/S Available
Spring	Both	2014-20	160-1642SSA	2.370 Length,Conical, Spring & Shim Assy.,NOTE: The Valve Spring Assembly Utilizes A 1mm Spring Seat. Per OEM, Ensure Removal of 2mm Spring Seat And Replace It With The 1mm Spring Seat Included In This Spring Assembly.
Lifter	Both	2014-20	VL555LA	Non-MDS-Hydraulic Roller Assy. Type,NOTE: Non MDS Lifter Assembly; Includes: 4 Lifters, Yoke & Hex Flange Head Screw; 4 Required Per Engine
		2014-20	VL556LA	Front-MDS-Hydraulic Roller Assy. Type,NOTE: Front MDS Lifter Assembly; Includes: 2 MDS & 2 Non MDS Lifters, Yoke & Hex Flange Head Screw; 2 Required Per Engine.
		2014-20	VL557LA	Rear-MDS-Hydraulic Roller Assy. Type,NOTE: Rear MDS Lifter Assembly; Includes: 2 MDS & 2 Non MDS Lifters, Yoke & Hex Flange Head Screw; 2 Required Per Engine.
Push Rod	Int	2014-20	190-1549	6.792 Length,NOTE: OEM Equivalent 0.075"" Thick Wall
	Exh	2014-20	190-1550	8.085 Length,NOTE: OEM Equivalent 0.075"" Thick Wall

125 400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin J, M, N, P CHR400
 1972-78 V8 400 CID BORE - 100.2mm/4.34""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1972-78	SB2250-1	2 ¹ / ₄ O.D.,1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	1972-78	SB1875-1	1 ⁷ / ₈ O.D.,1 ¹ / ₈ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
		1972-78	SB1875-1N	1 ⁷ / ₈ O.D.,1 ⁵ / ₈ I.D., ¹ / ₄ Depth,LPG
Valve	Int	1972-78	00548	2.080 Head Diameter,2 Groove
	Exh	1972-78	01156	1.740 Head Diameter,4 Groove,+15 O/S Stem Available
Keeper	Int	1972-78	121-1000	2 RD Bead Type
	Exh	1972-78	121-1014	4 RD Bead Type
Stem Seal	Int	1972-78	122-1046	Positive Type,Poly Material,All Rubber Style
	Exh	1972-78	122-1051	Umbrella Type,Poly Material,Umbrella Style
Guide	Both	1972-78	140-6113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1972-78	140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1972-78	160-1143	2.610 Length,Exc. Hi-Perf., W/O Rotator
		1972-78	160-1149	2.230 Length,W/ Damper,Hi-Perf.

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin J, M, N, P
1972-78 V8 400 CID

CHR400 **125**
BORE - 100.2mm/4.34" (cont.)

PART	YEARS	PART NO.	NOTES
Lifter	Both 1972-78	VL64	Hydraulic Type
Rocker Components	Both 1972-78	180-1055	Rocker Arm,L.H.
	1972-78	180-1056	Rocker Arm,R.H.
Push Rod	Both 1972-78	190-1408	8.575 Length

401 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin Z
1971-78 V8 401 CID

AMC401 **126**
BORE - 105.9mm/4.17"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1971-78	SB2125-1	2 $\frac{1}{8}$ O.D., 1 $\frac{13}{16}$ I.D., $\frac{1}{4}$ Depth
	Exh 1971-78	SB1750-2	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia.
Valve	Int 1971-72	01048	2.025 Head Diameter, 1 Groove
	1973-78	01258	2.025 Head Diameter, 4 Groove, +15 O/S Stem Available
	Exh 1971-72	01179	1.680 Head Diameter, 1 Groove
	1973-74	01257	1.680 Head Diameter, 1 Groove, Passenger Car & 1974 Jeep, W/ Rotator, $\frac{3}{8}$ Stem Dia.
Keeper	Exh 1973-74	121-1003	1 SQ Bead Type, $\frac{11}{32}$ Stem In Groove Area
	Both 1971-72	121-1007	1 SQ Bead Type
	1973-78	121-1014	4 RD Bead Type
Stem Seal	Both 1971-78	122-1031	Positive Type, Poly Material, 2-Ring Style
	1971-78	122-1059	Umbrella Type, GF Nylon Material, Umbrella Style
Guide	Exh 1971-78	140-6113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide
	1971-78	140-7298	0.3730 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide
	1971-78	140-9298	0.3729 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Both 1971-78	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
	1971-78	140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both 1971-78	160-1164	2.200 Length, Exc. 1971-72 Exh
Lifter	Both 1971-78	VL89	Hydraulic Type
Rocker Components	Both 1971-73	181-1021	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) $\frac{3}{8}$ Nut
	1971-73	184-1023	Stud, $\frac{3}{8}$ - $\frac{7}{16}$
	1971-73	184-1038	Nut, $\frac{3}{8}$
	1974-78	181-1032	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
	1974-78	183-1014	Fulcrum, Short
1974-78	183-1028	Bridge, When Replacing, Fulcrum # 183-1014 Must Also Be Used	
Push Rod	Both 1971-78	192-1331	7.793 Length

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

127 408 C.I., (6.7L), OHV, DIESEL, FI, 24 Valve, Vin A, L, ""Cummins ISB
TURBO""

CHR6.7TD-24V

2007-20

L6 408 CID

BORE - 107mm/4.2126""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2007-20	SB1375E-1	1.375 O.D.,1.100T I.D.,0.2270 Depth,OEM Replacement, +10 O/S Available
	Exh	2007-20	SB1375E-2N	1.375 O.D.,1.100T I.D.,0.2270 Depth,OEM Replacement, +5, +10 & +20 O/S Available
Valve	Int	2007-20	02014	1.299 Head Diameter
		2007-20	02014R	1.299 Head Diameter,Optional Performance Valve. See Performance Catlog For Details.
	Exh	2007-18	13006	1.299 Head Diameter,W/ Letter ""N"" In Head; NOTE: Check Casting Or VIN For Correct Material
		2007-18	13006R	1.299 Head Diameter,NOTE: Optional Performance Valve, See Performance Catalog For Details
	2007-18	13161	1.299 Head Diameter,Inconel,W/ Letter ""O"" In Head; NOTE: Check Casting Or VIN For Correct Material	
Keeper	Both	2007-20	121-1097	1 RD Bead Type
Stem Seal	Int	2007-20	122-1370	Positive Type,Viton Material,Top Hat Style,Yellow
	Exh	2007-20	122-1371	Positive Type,Viton Material,Top Hat Style,Green
	Both	2014-20	122-1477	Positive Type,Viton Material,Top Hat Style,Black; NOTE: No Ring
Guide	Int	2007-20	140-3033	0.2776 I.D.,1.937 Length,0.5015 O.D.,Replacement Guide for OEM Integral Guide
		2007-20	140-3080	0.2775 I.D.,1.937 Length,0.4395 O.D.,NOTE: Optional O.D.; Guide W/O Seal Boss. Does Not Require Special Tooling.
	Exh	2007-20	140-3034	0.2780 I.D.,2.020 Length,0.5015 O.D.,Replacement Guide for OEM Integral Guide
		2007-20	140-3081	0.2775 I.D.,2.020 Length,0.4395 O.D.,NOTE: Optional O.D. Guide W/O Seal Boss. Does Not Require Special Tooling
Spring	Both	2007-18	160-1484	1.852 Length
		2007-20	360-1020	2.035 Length,NOTE: Optional Performance Valve Spring, See Performance Catalog For Details
Rotator		2007-18	161-1081	
Lifter	Both	2007-18	VL565	Mechanical Type,OEM # 5086736AA
Push Rod	Both	2007-18	190-1554	11.435 Length
Head Saver Shim		2007-20	230-2176	New Hgt. - 4.140; Min. Hgt. - 4.124

128 413 C.I., (6.8L), OHV, GAS, CARB, 16 Valve
1959-65

CHR413

V8 413 CID

BORE - 106.4mm/4.187""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1959-65	SB2250-1	2 ¹ / ₄ O.D.,1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	1959-65	SB1750-2	1 ³ / ₄ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1959-65	00548	2.080 Head Diameter,2 Groove
	Exh	1959-65	00520	1.600 Head Diameter,4 Groove
Keeper	Int	1959-65	121-1000	2 RD Bead Type
	Exh	1959-65	121-1014	4 RD Bead Type
Stem Seal	Int	1959-65	122-1046	Positive Type,Poly Material,All Rubber Style
	Exh	1959-65	122-1051	Umbrella Type,Poly Material,Umbrella Style
Guide	Both		140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
		1959-65	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

413 C.I., (6.8L), OHV, GAS, CARB, 16 Valve
1959-65 V8 413 CID

CHR413 128
BORE - 106.4mm/4.187" (cont.)

PART	YEARS	PART NO.	NOTES
Spring	Both 1959-65	160-1143	2.610 Length,Exc. 1963-65 Hi-Perf.
Rotator	Exh 1959-65	161-1020	
Lifter	Both 1959-65	VL8	Hydraulic Type
Rocker Components	Both 1959-65	180-1055	Rocker Arm,L.H.
		180-1056	Rocker Arm,R.H.

426 C.I., (7.0L), OHV, GAS, CARB, 16 Valve, Vin H, J, R, ""HEMI""
1965-71 V8 426 CID

CHR426-H 129
BORE - 107.9mm/4.25"

PART	YEARS	PART NO.	NOTES
Guide	Int 1965-71	140-6896H	0.3120 I.D.,2.875 Length,0.4390 O.D.
	Exh 1965-71	140-6897H	0.3120 I.D.,2.188 Length,0.4390 O.D.
Lifter	Int 1965-66	VL8	Hydraulic Type,Std. Engine

440 C.I., (7.2L), OHV, GAS, CARB, 16 Valve, Vin K, L, M, T, U, V
1966-78 V8 440 CID

CHR440 130
BORE - 109.7mm/4.32"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1966-78	SB2250-1	2¼ O.D.,1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh 1966-67	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.600 Valve Head Dia.
	1968-78	SB1875-6	1 ⁷ / ₈ O.D.,1 ⁵ / ₈ I.D., ⁷ / ₃₂ Depth,W/ 1.740 Valve Head Dia.
Valve	Int 1966-78	00548	2.080 Head Diameter,2 Groove,Exc. 1970-72 W/ 3 or 2 Bbl. Carb.
	Exh 1966-67	00520	1.600 Head Diameter,4 Groove
	1968-78	01156	1.740 Head Diameter,4 Groove,+15 O/S Stem Available
Keeper	Int 1966-78	121-1000	2 RD Bead Type
	Exh 1966-78	121-1014	4 RD Bead Type
Stem Seal	Int 1966-78	122-1046	Positive Type,Poly Material,All Rubber Style
	Exh 1966-78	122-1051	Umbrella Type,Poly Material,Umbrella Style
Guide	Exh 1966-67	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
	1966-67	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
	Both 1966-78	140-6113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,Exc. 1966-67 Exh
	1966-78	140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Exc. 1966-67 Exh.
Spring	Exh 1966-78	160-1227	2.440 Length,W/ Damper,W/ Rotator
	Both 1966-78	160-1143	2.610 Length,Exc. Hi-Perf., W/O Rotator
	1966-78	160-1149	2.230 Length,W/ Damper,Hi-Perf.
Rotator	Both 1966-78	161-1020	
Lifter	Both 1966-67	VL8	Hydraulic Type,NOTE: Early, Use W/ Pushrod W/ One 0.312 Ball End and One 0.250 End
	1968-78	VL64	Hydraulic Type,NOTE: Late, Use 190-1403 Pushrod W/ .312 Ball Ends
Rocker Components	Both 1966-78	180-1055	Rocker Arm,L.H.
	1966-78	180-1056	Rocker Arm,R.H.
Push Rod	Both 1968-78	190-1403	9.315 Length

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

131 440 C.I., (7.2L), OHV, GAS, CARB, 16 Valve, Vin A, D
1973-79 V8 440 CID

CHR440-3CHR440-3
BORE - 109.7mm/4.32"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1973-79	SB2250-1	2 ¹ / ₄ O.D., 1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	1973-79	SB1875-1	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1973-79	00548	2.080 Head Diameter, 2 Groove, Except Premium Eng. & Motor Home
	Exh	1973-79	01156	1.740 Head Diameter, 4 Groove, Except Premium Eng. & Motor Home, +15 O/S Stem Available
Keeper	Int	1973-79	121-1000	2 RD Bead Type
	Exh	1973-79	121-1014	4 RD Bead Type
Stem Seal	Int	1973-79	122-1046	Positive Type, Poly Material, All Rubber Style
	Exh	1973-79	122-1051	Umbrella Type, Poly Material, Umbrella Style
Guide	Both	1973-79	140-6113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1973-79	140-9113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Exh	1973-79	160-1227	2.440 Length, W/ Damper, W/ Rotator
	Both	1973-79	160-1143	2.610 Length, Exc. Hi-Perf., W/O Rotator
		1973-79	160-1149	2.230 Length, W/ Damper, Hi-Perf.
Rotator	Both	1973-79	161-1020	
Lifter	Both	1973-79	VL64	Hydraulic Type
Rocker Components	Both	1973-79	180-1055	Rocker Arm, L.H.
		1973-79	180-1056	Rocker Arm, R.H.
Push Rod	Both	1973-79	190-1403	9.315 Length

132 478 C.I., (7.8L), OHV, GAS, CARB, 16 Valve, ""Truck""
1969-77 V8 478 CID

CHR478TRU
BORE - 114.3mm/4.50"

PART	YEARS	PART NO.	NOTES	
Guide	Int	1969-77	140-1817	0.4385 I.D., 3.063 Length, 0.6265 O.D.

133 488 C.I., (8.0L), OHV, GAS, FI, 20 Valve, Vin E, ""Viper""
1992-02 V10 488 CID

CHR8.0CAR
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1992-02	SB2062-23	2 ¹ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., ³ / ₈ Depth, Note: Must Use Adjustable Cutter To Achieve 0.007 Press Fit
	Exh	1992-02	SB1625-10	1 ⁵ / ₈ O.D., 1 ⁵ / ₁₆ I.D., ⁵ / ₁₆ Depth, Note: Must Use An Adjustable Cutter To Achieve 0.007" Press Fit
Keeper	Both	1992-02	121-1021	1 RD Bead Type
Stem Seal	Int	1992-02	122-1204	Positive Type, Viton Material, Metal Clad Style
	Exh	1992-02	122-1205	Positive Type, Viton Material, Metal Clad Style
Lifter	Both	1992-00	VL106	Hydraulic Roller Type, W/ Metering Socket, Always Rotate Oil Hole Up When Installing Lifter

134 488 C.I., (8.0L), OHV, GAS, FI, 20 Valve, Vin W, ""Truck""
1994-03 V10 488 CID

CHR8.0TRU
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1994-03	SB1687-5N	1 ¹¹ / ₁₆ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, Alternate Oversized Replacement
Valve	Int	1994-03	01781	1.920 Head Diameter
	Exh	1994-03	01782	1.624 Head Diameter
Keeper	Both	1994-03	121-1021	1 RD Bead Type
Stem Seal	Int	1994-03	122-1204	Positive Type, Viton Material, Metal Clad Style
	Exh	1994-03	122-1205	Positive Type, Viton Material, Metal Clad Style

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

488 C.I., (8.0L), OHV, GAS, FI, 20 Valve, Vin W, ""Truck"" **CHR8.0TRU 134**
1994-03 V10 488 CID BORE - 101.6mm/4.00"" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Int	1994-03	140-8658	0.3135 I.D.,2.860 Length,0.5020 O.D.
	Exh	1994-03	140-8659	0.3135 I.D.,3.081 Length,0.5020 O.D.
Spring	Both	1994-03	160-1378	1.967 Length,Conical
Lifter	Both	1994-03	VL106	Hydraulic Roller Type,W/ Metering Socket.,Always Rotate Oil Hole Up When Installing Lifter
Push Rod	Both	1994-03	190-1522	7.770 Length

505 C.I., (8.3L), OHV, GAS, FI, 20 Valve, Vin H, ""Truck"" **CHR8.3TRU 135**
2004-06 V10 505 CID BORE - 102.4mm/4.03""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2004-06	121-1021	1 RD Bead Type
Stem Seal	Int	2004-06	122-1204	Positive Type,Viton Material,Metal Clad Style
	Exh	2004-06	122-1205	Positive Type,Viton Material,Metal Clad Style

515 C.I., (8.4L), OHV, GAS, FI, 20 Valve, Vin Z, ""Viper"" **CHR8.4 136**
2008-17 V10 515 CID BORE - 103.4mm/4.07""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2008-17	121-1083	3 RD Bead Type

CHRYSLER / INDUSTRIAL

Engine	Models	Line No.
6 Cylinder		
170 C.I., (2.8L), 170, Gas, OHV, 12 Valve		1
170 C.I., (2.8L), H170, Gas, OHV, 12 Valve		2
170 C.I., (2.8L), IND170, Gas, OHV, 12 Valve		3
198 C.I., (3.2L), IND198, Gas, OHV, 12 Valve		4
201 C.I., (3.3L), IND201, Gas, OHV, 12 Valve		5
218 C.I., (3.6L), IND218, Gas, OHV, 12 Valve		6
218 C.I., (3.6L), IND5, Gas, OHV, 12 Valve		7
218 C.I., (3.6L), IND5A, Gas, OHV, 12 Valve		8
218 C.I., (3.6L), T112, Gas, OHV, 12 Valve		9
225 C.I., (3.7L), H225, Gas, OHV, 12 Valve		10
225 C.I., (3.7L), IND225, Gas, OHV, 12 Valve		11
230 C.I., (3.8L), IND230, Gas, OHV, 12 Valve		12
230 C.I., (3.8L), IND31, Gas, OHV, 12 Valve		14
230 C.I., (3.8L), IND30, Gas, OHV, 12 Valve		15
230 C.I., (3.8L), IND6, Gas, OHV, 12 Valve		16
230 C.I., (3.8L), IND6A, Gas, OHV, 12 Valve		17
230 C.I., (3.8L), T116, Gas, OHV 12 Valve		18
237 C.I., (3.9L), IND7, Gas, OHV, 12 Valve		19
237 C.I., (3.9L), IND7A, Gas, OHV, 12 Valve		20
251 C.I., (4.1L), IND8, Gas, OHV, 12 Valve		23
251 C.I., (4.1L), IND8A, Gas, OHV, 12 Valve		24
265 C.I., (4.3L), IND16, Gas, OHV, 12 Valve		25
265 C.I., (4.3L), IND16A, Gas, OHV, 12 Valve		26
265 C.I., (4.3L), IND32, Gas, OHV, 12 Valve		27

CHRYSLER / INDUSTRIAL (Cont'd)

Engine	Models	Line No.
6 Cylinder		
265 C.I., (4.3L), IND33, Gas, OHV, 12 Valve		28
8 Cylinder		
230 C.I., (3.8L), IND20, Gas, OHV, 16 Valve		13
241 C.I., (3.9L), IND18, Gas, OHV, 16 Valve		21
241 C.I., (3.9L), IND18A, Gas, OHV, 16 Valve		22
270 C.I., (4.4L), IND52, Gas, OHV, 16 Valve		29
276 C.I., (4.5L), IND19, Gas, OHV, 16 Valve		30
276 C.I., (4.5L), IND19A, Gas, OHV, 16 Valve		31
318 C.I., (5.2L), H318, Gas, OHV, 16 Valve		32
318 C.I., (5.2L), HA318, Gas, OHV, 16 Valve		33
318 C.I., (5.2L), HB318, Gas, OHV, 16 Valve		34
318 C.I., (5.2L), HC318, Gas, OHV, 16 Valve		35
318 C.I., (5.2L), HT318, Gas, OHV, 16 Valve		36
318 C.I., (5.2L), LH318, Gas, OHV, 16 Valve		37
318 C.I., (5.2L), LT318, Gas, OHV, 16 Valve		38
331 C.I., (5.4L), IND54, Gas, OHV, 16 Valve		39
361 C.I., (5.9L), H361, Gas, OHV, 16 Valve		40
361 C.I., (5.9L), HB361, Gas, OHV, 16 Valve		41
361 C.I., (5.9L), HC361, Gas, OHV, 16 Valve		42
361 C.I., (5.9L), HT361, Gas, OHV, 16 Valve		43
361 C.I., (5.9L), CHI361, LPG, OHV, 16 Valve		44
383 C.I., (6.3L), H383, Gas, OHV, 16 Valve		45
383 C.I., (6.3L), HA383, Gas, OHV, 16 Valve		46
383 C.I., (6.3L), HB383, Gas, OHV, 16 Valve		47
400 C.I., (6.6L), H400, Gas, OHV, 16 Valve		48
413 C.I., (6.8L), H413, Gas, OHV, 16 Valve		49
413 C.I., (6.8L), HB413, Gas, OHV, 16 Valve		50
413 C.I., (6.8L), HC413, Gas, OHV, 16 Valve		51
440 C.I., (7.2L), H440, Gas, OHV, 16 Valve		52

1 170 C.I., (2.8L), 170, Gas, OHV, 12 Valve **170**
 L6 170 CID **BORE - 86.3mm/3.40"**

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1750-1	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, +10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh SB1500-1	
		1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

2 170 C.I., (2.8L), H170, Gas, OHV, 12 Valve **H170**
 L6 170 CID **BORE - 86.36mm/3.40"**

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1750-1	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, +10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh SB1437-3	
		1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int 00567	1.620 Head Diameter, 2 Groove, +15 O/S Stem Available
	Exh 01265	
		1.360 Head Diameter, 4 Groove

(Cont'd) CHRYSLER / INDUSTRIAL**170 C.I., (2.8L), H170, Gas, OHV, 12 Valve**
L6 170 CID**H170 2**
BORE - 86.36mm/3.40" (cont.)

PART		PART NO.	NOTES
Keeper	Int	121-1000	2 RD Bead Type
	Exh	121-1014	4 RD Bead Type
Stem Seal	Int	122-1041	Umbrella Type,Poly Material,Umbrella Style
	Exh	122-1051	Umbrella Type,Poly Material,Umbrella Style
Guide	Int	140-6113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	160-1122	2.000 Length,W/O Rotator
Lifter	Both	VL31	Mechanical High Performance Type

170 C.I., (2.8L), IND170, Gas, OHV, 12 Valve
L6 170 CID**IND170 3**
BORE - 86.36mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-1	1 $\frac{3}{4}$ O.D.,1 $\frac{1}{2}$ I.D., $\frac{1}{4}$ Depth,+10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh	SB1437-3	1 $\frac{7}{16}$ O.D.,1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	00567	1.620 Head Diameter,2 Groove,+15 O/S Stem Available
	Exh	01265	1.360 Head Diameter,4 Groove
Keeper	Int	121-1000	2 RD Bead Type
	Exh	121-1014	4 RD Bead Type
Stem Seal	Int	122-1041	Umbrella Type,Poly Material,Umbrella Style
	Exh	122-1051	Umbrella Type,Poly Material,Umbrella Style
Guide	Int	140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
		140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
	Exh	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	160-1122	2.000 Length,W/O Rotator
Lifter	Both	VL31	Mechanical High Performance Type

198 C.I., (3.2L), IND198, Gas, OHV, 12 Valve
L6 198 CID**198 4**
BORE - 86.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-1	1 $\frac{3}{4}$ O.D.,1 $\frac{1}{2}$ I.D., $\frac{1}{4}$ Depth,+10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh	SB1500-1	1 $\frac{1}{2}$ O.D.,1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

201 C.I., (3.3L), IND201, Gas, OHV, 12 Valve
L6 201 CID**201 5**
BORE - 82.5mm/3.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-1	1 $\frac{9}{16}$ O.D.,1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1562-4+010	1.577 O.D.,1 $\frac{5}{16}$ I.D., $\frac{1}{4}$ Depth
Keeper	Both	121-1001	2 RD Bead Type
Guide	Int	140-1338	0.3425 I.D.,2.813 Length,0.6575 O.D.,Tapered End To Spring Side

CHRYSLER / INDUSTRIAL (Cont'd)

5 201 C.I., (3.3L), IND201, Gas, OHV, 12 Valve 201
 (cont.) L6 201 CID BORE - 82.5mm/3.25"

PART		PART NO.	NOTES
Guide	Exh	140-1337	0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

6 218 C.I., (3.6L), IND218, Gas, OHV, 12 Valve 218
 L6 218 CID BORE - 82.5mm/3.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1516E-1	
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337	0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

7 218 C.I., (3.6L), IND5, Gas, OHV, 12 Valve IND5
 L6 218 CID BORE - 82.5mm/3.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1516E-1	
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337	0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

8 218 C.I., (3.6L), IND5A, Gas, OHV, 12 Valve IND5A
 L6 218 CID BORE - 82.5mm/3.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1516E-1	
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337	0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

9 218 C.I., (3.6L), T112, Gas, OHV, 12 Valve T112
 L6 218 CID BORE - 82.5mm/3.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1516E-1	
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337	0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

10 225 C.I., (3.7L), H225, Gas, OHV, 12 Valve H225
 L6 225 CID BORE - 86.36mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-1	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{1}{4}$ Depth, +10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh	SB1437-3	
Valve	Int	00567	1.620 Head Diameter, 2 Groove, +15 O/S Stem Available
	Exh	01265	1.360 Head Diameter, 4 Groove
Keeper	Int	121-1000	2 RD Bead Type
	Exh	121-1014	4 RD Bead Type
Stem Seal	Int	122-1041	Umbrella Type, Poly Material, Umbrella Style
	Exh	122-1051	Umbrella Type, Poly Material, Umbrella Style
Guide	Int	140-6113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		140-9113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide

(Cont'd) **CHRYSLER / INDUSTRIAL**

225 C.I., (3.7L), H225, Gas, OHV, 12 Valve
L6 225 CID

H225 10
BORE - 86.36mm/3.40"" (cont.)

PART		PART NO.	NOTES
Guide	Exh	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	160-1122	2.000 Length,W/O Rotator
Lifter	Both	VL31	Mechanical High Performance Type
		VL88	Hydraulic Type
Push Rod	Both	190-1349	8.723 Length

225 C.I., (3.7L), IND225, Gas, OHV, 12 Valve
L6 225 CID

IND225 11
BORE - 86.36mm/3.40""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-1	1 $\frac{3}{4}$ O.D.,1 $\frac{1}{2}$ I.D., $\frac{1}{4}$ Depth,+10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh	SB1437-3	1 $\frac{7}{16}$ O.D.,1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	00567	1.620 Head Diameter,2 Groove,+15 O/S Stem Available
	Exh	01265	1.360 Head Diameter,4 Groove
Keeper	Int	121-1000	2 RD Bead Type
	Exh	121-1014	4 RD Bead Type
Stem Seal	Int	122-1041	Umbrella Type,Poly Material,Umbrella Style
	Exh	122-1051	Umbrella Type,Poly Material,Umbrella Style
Guide	Int	140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	160-1122	2.000 Length,W/O Rotator
Lifter	Both	VL31	Mechanical High Performance Type
		VL88	Hydraulic Type

230 C.I., (3.8L), IND230, Gas, OHV, 12 Valve
L6 230 CID

230 12
BORE - 82.5mm/3.25""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D.,1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1516E-1	1.516 O.D.,1 $\frac{1}{4}$ I.D., $\frac{1}{4}$ Depth
Guide	Int	140-1338	0.3425 I.D.,2.813 Length,0.6575 O.D.,Tapered End To Spring Side
	Exh	140-1337	0.3445 I.D.,2.813 Length,0.6575 O.D.,Tapered End To Spring Side

230 C.I., (3.8L), IND20, Gas, OHV, 16 Valve
V8 230 CID

IND20 13
BORE - 87.3mm/3.44""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 $\frac{13}{16}$ O.D.,1 $\frac{1}{16}$ I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material
	Exh	SB1516E-1	1.516 O.D.,1 $\frac{1}{4}$ I.D., $\frac{1}{4}$ Depth

CHRYSLER / INDUSTRIAL (Cont'd)

14 230 C.I., (3.8L), IND31, Gas, OHV, 12 Valve
L6 230 CID

IND31
BORE - 82.5mm/3.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1516E-1		1.516 O.D., 1$\frac{1}{4}$ I.D., $\frac{1}{4}$ Depth
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337		0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

15 230 C.I., (3.8L), IND30, Gas, OHV, 12 Valve
L6 230 CID

CHI230-IND30
BORE - 82.5mm/3.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1516E-1		1.516 O.D., 1$\frac{1}{4}$ I.D., $\frac{1}{4}$ Depth
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337		0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

16 230 C.I., (3.8L), IND6, Gas, OHV, 12 Valve
L6 230 CID

IND6
BORE - 82.5mm/3.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1516E-1		1.516 O.D., 1$\frac{1}{4}$ I.D., $\frac{1}{4}$ Depth
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337		0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

17 230 C.I., (3.8L), IND6A, Gas, OHV, 12 Valve
L6 230 CID

IND6A
BORE - 82.5mm/3.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1516E-1		1.516 O.D., 1$\frac{1}{4}$ I.D., $\frac{1}{4}$ Depth
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337		0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

18 230 C.I., (3.8L), T116, Gas, OHV 12 Valve
L6 230 CID

T116
BORE - 82.5mm/3.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1516E-1		1.516 O.D., 1$\frac{1}{4}$ I.D., $\frac{1}{4}$ Depth
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337		0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

19 237 C.I., (3.9L), IND7, Gas, OHV, 12 Valve
L6 237 CID

IND7
BORE - 87.3mm/3.44"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 $\frac{13}{16}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{1}{4}$ Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-2	
Valve	Int	00298	1.718 Head Diameter, 2 Groove
Keeper	Int	121-1001	2 RD Bead Type
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337	

(Cont'd) **CHRYSLER / INDUSTRIAL**

237 C.I., (3.9L), IND7A, Gas, OHV, 12 Valve
L6 237 CID

IND7A 20
BORE - 87.3mm/3.44"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-2	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	00298	1.718 Head Diameter, 2 Groove
Keeper	Int	121-1001	2 RD Bead Type
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337	0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

241 C.I., (3.9L), IND18, Gas, OHV, 16 Valve
V8 241 CID

IND18 21
BORE - 87.3mm/3.44"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1516E-1	1.516 O.D., 1 ¹ / ₄ I.D., 1/4 Depth

241 C.I., (3.9L), IND18A, Gas, OHV, 16 Valve
V8 241 CID

IND18A 22
BORE - 87.3mm/3.44"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1516E-1	1.516 O.D., 1 ¹ / ₄ I.D., 1/4 Depth

251 C.I., (4.1L), IND8, Gas, OHV, 12 Valve
L6 251 CID

IND8 23
BORE - 87.3mm/3.44"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-2	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	00298	1.718 Head Diameter, 2 Groove
Keeper	Int	121-1001	2 RD Bead Type
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337	0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

251 C.I., (4.1L), IND8A, Gas, OHV, 12 Valve
L6 251 CID

IND8A 24
BORE - 87.3mm/3.44"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-2	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	00298	1.718 Head Diameter, 2 Groove
Keeper	Int	121-1001	2 RD Bead Type
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337	0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

265 C.I., (4.3L), IND16, Gas, OHV, 12 Valve
L6 265 CID

IND16 25
BORE - 87.3mm/3.44"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-2	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	00298	1.718 Head Diameter, 2 Groove
	Exh	00257	1.501 Head Diameter, 2 Groove, W/.340 Stem
Keeper	Both	121-1001	2 RD Bead Type
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337	0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

CHRYSLER / INDUSTRIAL (Cont'd)

26 265 C.I., (4.3L), IND16A, Gas, OHV, 12 Valve

IND16A

L6 265 CID

BORE - 87.3mm/3.44"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-2	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	00298	1.718 Head Diameter, 2 Groove
	Exh	00257	1.501 Head Diameter, 2 Groove, W/.340 Stem
Keeper	Both	121-1001	2 RD Bead Type
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337	0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

27 265 C.I., (4.3L), IND32, Gas, OHV, 12 Valve

IND32

L6 265 CID

BORE - 87.3mm/3.44"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-2	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	00298	1.718 Head Diameter, 2 Groove
Keeper	Int	121-1001	2 RD Bead Type
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337	0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

28 265 C.I., (4.3L), IND33, Gas, OHV, 12 Valve

IND33

L6 265 CID

BORE - 87.3mm/3.44"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-2	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	00298	1.718 Head Diameter, 2 Groove
Keeper	Int	121-1001	2 RD Bead Type
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337	0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

29 270 C.I., (4.4L), IND52, Gas, OHV, 16 Valve

IND52

V8 270 CID

BORE - 92mm/3.62"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia.
	Exh	SB1516E-1	1.516 O.D., 1 ¹ / ₄ I.D., 1/4 Depth
Guide	Int	140-6113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		140-9113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)

30 276 C.I., (4.5L), IND19, Gas, OHV, 16 Valve

IND19

V8 276 CID

BORE - 92mm/3.62"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia.
	Exh	SB1516E-1	1.516 O.D., 1 ¹ / ₄ I.D., 1/4 Depth

(Cont'd) CHRYSLER / INDUSTRIAL**276 C.I., (4.5L), IND19A, Gas, OHV, 16 Valve**
V8 276 CID**IND19A 31**
BORE - 92mm/3.621"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1¾ O.D., 1½ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia. 1.516 O.D., 1¼ I.D., ¼ Depth
	Exh	SB1516E-1	

318 C.I., (5.2L), H318, Gas, OHV, 16 Valve
V8 318 CID**H318 32**
BORE - 99.3mm/3.911"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-10	2.000 O.D., 1½ I.D., ¼ Depth 1½ O.D., 1¼ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1687-2	
Valve	Int	00514	1.844 Head Diameter, 2 Groove 1.563 Head Diameter, 4 Groove
	Exh	00518	
Keeper	Int	121-1000	2 RD Bead Type 4 RD Bead Type
	Exh	121-1014	
Stem Seal	Int	122-1041	Umbrella Type, Poly Material, Umbrella Style Umbrella Type, Poly Material, Umbrella Style
	Exh	122-1051	
Guide	Int	140-5610	0.3750 I.D., 2.625 Length, 0.5020 O.D., Plain I.D. Conversion Guide 0.3750 I.D., 2.625 Length, 0.5020 O.D., Spiral I.D. Conversion Guide 0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U) 0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
		140-9610	
	Exh	140-6108	
		140-9108	
Spring	Both	160-1161	2.068 Length
Lifter	Both	VL31	Mechanical High Performance Type
Rocker Components	Both	180-1077	Rocker Arm, L.H., Shaft Not Incl. Rocker Arm, R.H., Shaft Not Incl. Rocker Arm Shaft, 2 Required
		180-1078	
		186-1100	

318 C.I., (5.2L), HA318, Gas, OHV, 16 Valve
V8 318 CID**HA318 33**
BORE - 99.3mm/3.911"

PART		PART NO.	NOTES	
Valve Seat Insert	Int	SB2000-10	2.000 O.D., 1½ I.D., ¼ Depth 1½ O.D., 1¼ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material	
	Exh	SB1687-2		
Valve	Int	00514	1.844 Head Diameter, 2 Groove 1.563 Head Diameter, 4 Groove	
	Exh	00518		
Keeper	Int	121-1000	2 RD Bead Type 4 RD Bead Type	
	Exh	121-1014		
Stem Seal	Int	122-1041	Umbrella Type, Poly Material, Umbrella Style Umbrella Type, Poly Material, Umbrella Style	
	Exh	122-1051		
Guide	Int	140-9610	0.3750 I.D., 2.625 Length, 0.5020 O.D., Spiral I.D. Conversion Guide 0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)	
	Exh	140-9108		
Lifter		Both		VL31	Mechanical High Performance Type

318 C.I., (5.2L), HB318, Gas, OHV, 16 Valve
V8 318 CID**HB318 34**
BORE - 99.3mm/3.911"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-10	2.000 O.D., 1½ I.D., ¼ Depth

CHRYSLER / INDUSTRIAL (Cont'd)

34 318 C.I., (5.2L), HB318, Gas, OHV, 16 Valve HB318
 (cont.) V8 318 CID BORE - 99.3mm/3.91"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	00514	1.844 Head Diameter, 2 Groove
Keeper	Int	121-1000	2 RD Bead Type
Stem Seal	Int	122-1041	Umbrella Type, Poly Material, Umbrella Style
Guide	Int	140-9610	0.3750 I.D., 2.625 Length, 0.5020 O.D., Spiral I.D. Conversion Guide 0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
	Exh	140-9108	
Lifter	Both	VL31	Mechanical High Performance Type

35 318 C.I., (5.2L), HC318, Gas, OHV, 16 Valve HC318
 V8 318 CID BORE - 99.3mm/3.91"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-10	2.000 O.D., 1 ⁹ / ₁₆ I.D., ¹ / ₄ Depth 1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1687-2	
Valve	Int	00514	1.844 Head Diameter, 2 Groove
Keeper	Int	121-1000	2 RD Bead Type
Stem Seal	Int	122-1041	Umbrella Type, Poly Material, Umbrella Style
Guide	Int	140-9610	0.3750 I.D., 2.625 Length, 0.5020 O.D., Spiral I.D. Conversion Guide 0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
	Exh	140-9108	
Spring	Both	160-1161	2.068 Length
Lifter	Both	VL31	Mechanical High Performance Type

36 318 C.I., (5.2L), HT318, Gas, OHV, 16 Valve HT318
 V8 318 CID BORE - 99.3mm/3.91"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-10	2.000 O.D., 1 ⁹ / ₁₆ I.D., ¹ / ₄ Depth 1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1687-2	
Valve	Int	00514	1.844 Head Diameter, 2 Groove
Keeper	Int	121-1000	2 RD Bead Type
Stem Seal	Int	122-1041	Umbrella Type, Poly Material, Umbrella Style
Guide	Int	140-5610	0.3750 I.D., 2.625 Length, 0.5020 O.D., Plain I.D. Conversion Guide 0.3750 I.D., 2.625 Length, 0.5020 O.D., Spiral I.D. Conversion Guide 0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U) 0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
		140-9610	
	Exh	140-6108	
		140-9108	
Spring	Both	160-1161	2.068 Length
Lifter	Both	VL31	Mechanical High Performance Type

(Cont'd) CHRYSLER / INDUSTRIAL**318 C.I., (5.2L), LH318, Gas, OHV, 16 Valve**
V8 318 CIDLH318 **37**
BORE - 99.3mm/3.91"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-1	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{1}{4}$ Depth, +10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	00938	1.780 Head Diameter, 2 Groove, +15 O/S Stem Available
	Exh	01329	1.500 Head Diameter, 4 Groove, OEM # 2465339, +15 O/S Stem Available
Keeper	Int	121-1000	2 RD Bead Type
	Exh	121-1014	4 RD Bead Type
Stem Seal	Both	122-1041	Umbrella Type, Poly Material, Umbrella Style
Guide	Int	140-9610	0.3750 I.D., 2.625 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	160-1122	2.000 Length, W/O Rotator
Lifter	Both	VL89	Hydraulic Type
Rocker Components	Both	180-1077	Rocker Arm, L.H., Shaft Not Incl.
		180-1078	Rocker Arm, R.H., Shaft Not Incl.
		186-1100	Rocker Arm Shaft, 2 Required

318 C.I., (5.2L), LT318, Gas, OHV, 16 Valve
V8 318 CIDLT318 **38**
BORE - 99.3mm/3.91"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-1	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{1}{4}$ Depth, +10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	00938	1.780 Head Diameter, 2 Groove, +15 O/S Stem Available
	Exh	01329	1.500 Head Diameter, 4 Groove, OEM # 2465339, +15 O/S Stem Available
Keeper	Int	121-1000	2 RD Bead Type
	Exh	121-1014	4 RD Bead Type
Stem Seal	Int	122-1041	Umbrella Type, Poly Material, Umbrella Style
	Exh	122-1051	Umbrella Type, Poly Material, Umbrella Style
Guide	Int	140-9610	0.3750 I.D., 2.625 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	160-1122	2.000 Length, W/O Rotator
Lifter	Both	VL89	Hydraulic Type
Rocker Components	Both	180-1077	Rocker Arm, L.H., Shaft Not Incl.
		180-1078	Rocker Arm, R.H., Shaft Not Incl.

331 C.I., (5.4L), IND54, Gas, OHV, 16 Valve
V8 331 CIDIND54 **39**
BORE - 92mm/3.62"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia.
	Exh	SB1516E-1	1.516 O.D., $\frac{1}{4}$ I.D., $\frac{1}{4}$ Depth

CHRYSLER / INDUSTRIAL (Cont'd)

40 361 C.I., (5.9L), H361, Gas, OHV, 16 Valve
V8 361 CID

H361
BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2187-2	2 ³ / ₁₆ O.D., 1 ¹³ / ₁₆ I.D., ⁹ / ₃₂ Depth 1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia.
	Exh	SB1750-2	
Valve	Int	00548	2.080 Head Diameter, 2 Groove 1.600 Head Diameter, 4 Groove
	Exh	00520	
Keeper	Int	121-1000	2 RD Bead Type 4 RD Bead Type
	Exh	121-1014	
Guide	Exh	140-1839	0.4385 I.D., 3.090 Length, 0.6887 O.D.
Spring	Both	160-1143	2.610 Length
Lifter	Both	VL8	Hydraulic Type
Rocker Components	Both	180-1055	Rocker Arm, L.H.
		180-1056	Rocker Arm, R.H.

41 361 C.I., (5.9L), HB361, Gas, OHV, 16 Valve
V8 361 CID

HB361
BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-1	2.000 O.D., 1 ³ / ₄ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material 1.624 O.D., 1-21/64 I.D., ³ / ₈ Depth 1 ⁵ / ₈ O.D., 1 ⁵ / ₁₆ I.D., 0.3950 Depth, Optional Larger Depth
	Exh	SB1624E-1N	
		SB1625-20	
Keeper	Int	121-1014	4 RD Bead Type 2 RD Bead Type
	Exh	121-1000	
Guide	Exh	140-1839	0.4385 I.D., 3.090 Length, 0.6887 O.D.
		140-7337	0.4370 I.D., 3.090 Length, 0.6890 O.D.
Spring	Int	160-1143	2.610 Length
Lifter	Both	VL8	Hydraulic Type
Rocker Components	Both	180-1055	Rocker Arm, L.H.
		180-1056	Rocker Arm, R.H.

42 361 C.I., (5.9L), HC361, Gas, OHV, 16 Valve
V8 361 CID

HC361
BORE - 105mm/4.134"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-1	2.000 O.D., 1 ³ / ₄ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material 1.624 O.D., 1-21/64 I.D., ³ / ₈ Depth
	Exh	SB1624E-1N	

43 361 C.I., (5.9L), HT361, Gas, OHV, 16 Valve
V8 361 CID

HT361
BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-1	2.000 O.D., 1 ³ / ₄ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material 1.624 O.D., 1-21/64 I.D., ³ / ₈ Depth
	Exh	SB1624E-1N	
Keeper	Int	121-1014	4 RD Bead Type 2 RD Bead Type
	Exh	121-1000	
Guide	Exh	140-1839	0.4385 I.D., 3.090 Length, 0.6887 O.D.
Spring	Int	160-1143	2.610 Length
Lifter	Both	VL8	Hydraulic Type
Rocker Components	Both	180-1055	Rocker Arm, L.H.
		180-1056	Rocker Arm, R.H.

(Cont'd) **CHRYSLER / INDUSTRIAL**

361 C.I., (5.9L), CHI361, LPG, OHV, 16 Valve
V8 361 CID

CHI361LP 44
BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-1	2.000 O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth, Also Available In Non-Magnetic (N) Material, LPG & Natural Gas
	Exh	SB1624E-1N	1.624 O.D., 1-21/64 I.D., $\frac{3}{8}$ Depth, LPG & Natural Gas
Keeper	Int	121-1014	4 RD Bead Type
	Exh	121-1000	2 RD Bead Type
Guide	Exh	140-1839	0.4385 I.D., 3.090 Length, 0.6887 O.D.
Spring	Int	160-1143	2.610 Length
Lifter	Both	VL8	Hydraulic Type
Rocker Components	Both	180-1055	Rocker Arm, L.H.
		180-1056	Rocker Arm, R.H.

383 C.I., (6.3L), H383, Gas, OHV, 16 Valve
V8 383 CID

H383 45
BORE - 107.95mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2187-2	2 $\frac{3}{16}$ O.D., 1 $\frac{13}{16}$ I.D., $\frac{9}{32}$ Depth
	Exh	SB1750-2	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia.
Valve	Int	00548	2.080 Head Diameter, 2 Groove
Keeper	Int	121-1000	2 RD Bead Type
Guide	Int	140-9113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	160-1143	2.610 Length
Lifter	Both	VL64	Hydraulic Type

383 C.I., (6.3L), HA383, Gas, OHV, 16 Valve
V8 383 CID

HA383 46
BORE - 108mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2187-2	2 $\frac{3}{16}$ O.D., 1 $\frac{13}{16}$ I.D., $\frac{9}{32}$ Depth
	Exh	SB1750-2	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia.

383 C.I., (6.3L), HB383, Gas, OHV, 16 Valve
V8 383 CID

HB383 47
BORE - 107.95mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2187-2	2 $\frac{3}{16}$ O.D., 1 $\frac{13}{16}$ I.D., $\frac{9}{32}$ Depth
	Exh	SB1750-2	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia.
Valve	Int	00548	2.080 Head Diameter, 2 Groove
Keeper	Int	121-1000	2 RD Bead Type
Guide	Int	140-9113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Int	160-1143	2.610 Length
Rocker Components	Both	180-1055	Rocker Arm, L.H.
		180-1056	Rocker Arm, R.H.
Push Rod	Both	190-1408	8.575 Length

CHRYSLER / INDUSTRIAL (Cont'd)

48 400 C.I., (6.6L), H400, Gas, OHV, 16 Valve
V8 400 CID

H400
BORE - 110.287mm/4.30"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2250-1	2 ¹ / ₄ O.D., 1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	SB1875-1	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	00548	2.080 Head Diameter, 2 Groove
Keeper	Int	121-1000	2 RD Bead Type
Guide	Both	140-9113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	160-1143	2.610 Length
Lifter	Both	VL64	Hydraulic Type
Rocker Components	Both	180-1055	Rocker Arm, L.H.
		180-1056	Rocker Arm, R.H.
Push Rod	Exh	190-1408	8.575 Length

49 413 C.I., (6.8L), H413, Gas, OHV, 16 Valve
V8 413 CID

H413
BORE - 106.375mm/4.188"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2187-2	2 ³ / ₁₆ O.D., 1 ¹³ / ₁₆ I.D., ⁹ / ₃₂ Depth
	Exh	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia.
Valve	Int	00548	2.080 Head Diameter, 2 Groove
	Exh	00520	1.600 Head Diameter, 4 Groove
Keeper	Int	121-1000	2 RD Bead Type
	Exh	121-1014	4 RD Bead Type
Guide	Exh	140-1839	0.4385 I.D., 3.090 Length, 0.6887 O.D.
Lifter	Both	VL8	Hydraulic Type

50 413 C.I., (6.8L), HB413, Gas, OHV, 16 Valve
V8 413 CID

HB413
BORE - 106.375mm/4.188"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-1	2.000 O.D., 1 ³ / ₄ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1624E-1N	1.624 O.D., 1-21/64 I.D., ³ / ₈ Depth
Keeper	Int	121-1014	4 RD Bead Type
	Exh	121-1000	2 RD Bead Type
Guide	Exh	140-1839	0.4385 I.D., 3.090 Length, 0.6887 O.D.
Spring	Int	160-1143	2.610 Length
Lifter	Both	VL64	Hydraulic Type
Rocker Components	Both	180-1055	Rocker Arm, L.H.
		180-1056	Rocker Arm, R.H.

51 413 C.I., (6.8L), HC413, Gas, OHV, 16 Valve
V8 413 CID

HC413
BORE - 106.4mm/4.188"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-1	2.000 O.D., 1 ³ / ₄ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1624E-1N	1.624 O.D., 1-21/64 I.D., ³ / ₈ Depth

52 440 C.I., (7.2L), H440, Gas, OHV, 16 Valve
V8 440 CID

H440
BORE - 109.728mm/4.30"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2250-1	2 ¹ / ₄ O.D., 1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	SB1875-1	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	00548	2.080 Head Diameter, 2 Groove

(Cont'd) **CHRYSLER / INDUSTRIAL**

440 C.I., (7.2L), H440, Gas, OHV, 16 Valve
V8 440 CID

H440 **52**
BORE - 109.728mm/4.30" (cont.)

PART		PART NO.	NOTES
Valve	Exh	01156	1.740 Head Diameter,4 Groove,+15 O/S Stem Available
Keeper	Int	121-1000	2 RD Bead Type
	Exh	121-1014	4 RD Bead Type
Guide	Both	140-6113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1143	2.610 Length
Lifter	Both	VL64	Hydraulic Type,Late Eng., Use Push Rod 190-1403 W/ Both 0.312 Ball Ends
		VL8	Hydraulic Type,Early Eng., Use Push Rod W/ One 0.312 Ball End And One 0.250 Ball Dia.
Rocker Components	Both	180-1055	Rocker Arm,L.H.
		180-1056	Rocker Arm,R.H.
Push Rod	Exh	190-1403	9.315 Length,From 1968, D Series

CHRYSLER / MARINE

Engine	Models	Line No.
6 Cylinder		
155 C.I., (2.5L), 155, Gas, CARB, OHV, 12 Valve		1
225 C.I., (3.7L), 225, Gas, CARB, OHV, 12 Valve		2
251 C.I., (4.1L), 251, Gas, CARB, OHV, 12 Valve		4
265 C.I., (4.3L), 265, Gas, CARB, OHV, 12 Valve		6
265 C.I., (4.3L), M47, Gas, CARB, OHV, 12 Valve, ""Crown""	M47S Crown Special	7
8 Cylinder		
250 C.I., (4.1L), 250, Gas, CARB, OHV, 16 Valve	Chrysler III, Superbee III, Jet III, Superbee V-Drive III	3
260 C.I., (4.3L), 260, Gas, CARB, OHV, 16 Valve		5
280 C.I., (4.6L), 280, Gas, CARB, OHV, 16 Valve, ""4.20 Inch Bore""		8
280 C.I., (4.6L), 280, Gas, CARB, OHV, 16 Valve, ""4.30 Inch Bore""		9
300 C.I., (4.9L), 300, Gas, CARB, OHV, 16 Valve		10
318 C.I., (5.2L), 318, Gas, CARB, OHV, 16 Valve ""195 HP""	225 Superbee II, Jet II, Superbee V-Drive, 195 Stern Drive, 240 Stern Drive	11
318 C.I., (5.2L), 318, Gas, CARB, OHV, 16 Valve, ""195 HP Special 195""	Special 915	12
318 C.I., (5.2L), 318, Gas, CARB, OHV, 16 Valve, ""Mechanical""		13
324 C.I., (5.3L), 324, Gas, CARB, OHV, 16 Valve		14
330 C.I., (5.4L), 330, Gas, CARB, OHV, 16 Valve		15
331 C.I., (5.4L), 331, Gas, CARB, OHV, 16 Valve		16
335 C.I., (5.5L), 335, Gas, CARB, OHV, 16 Valve		17
340 C.I., (5.6L), 340, Gas, CARB, OHV, 16 Valve	Chrysler III, Superbee III, Jet III, Superbee V-Drive III	18
360 C.I., (5.6L), 360, Gas, CARB, OHV, 16 Valve	Jet, Superbee V-Drive III, Superbee III	19
361 C.I., (5.9L), M81, Gas, CARB, OHV, 16 Valve, ""Imperial""	M81 Imperial	20
375 C.I., (6.1L), 375, Gas, CARB, OHV, 16 Valve		21
383 C.I., (6.3L), 383, Gas, CARB, OHV, 16 Valve		22

CHRYSLER / MARINE (Cont'd)

Engine	Models	Line No.
8 Cylinder		
400 C.I., (6.6L), 400, Gas, CARB, OHV, 16 Valve		23
440 C.I., (7.2L), 440, Gas, CARB, OHV, 16 Valve		24

1 155 C.I., (2.5L), 155, Gas, CARB, OHV, 12 Valve CHM155
 L6 155 CID BORE - 86.36mm/3.40"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1750-1	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{1}{4}$ Depth, +10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh SB1500-1	1 $\frac{1}{2}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int 00567	1.620 Head Diameter, 2 Groove, +15 O/S Stem Available
	Exh 01265	1.360 Head Diameter, 4 Groove
Keeper	Int 121-1000	2 RD Bead Type
	Exh 121-1014	4 RD Bead Type
Guide	Int 140-9113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh 140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)

2 225 C.I., (3.7L), 225, Gas, CARB, OHV, 12 Valve CHM225
 L6 225 CID BORE - 86.36mm/3.40"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1750-1	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{1}{4}$ Depth, +10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh SB1500-1	1 $\frac{1}{2}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int 00567	1.620 Head Diameter, 2 Groove, +15 O/S Stem Available
	Exh 01265	1.360 Head Diameter, 4 Groove
Keeper	Int 121-1000	2 RD Bead Type
	Exh 121-1014	4 RD Bead Type
Stem Seal	Exh 122-1051	Umbrella Type, Poly Material, Umbrella Style
Guide	Int 140-9113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh 140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Lifter	Both VL31	Mechanical High Performance Type
Push Rod	Both 190-1349	8.723 Length

3 250 C.I., (4.1L), 250, Gas, CARB, OHV, 16 Valve CHM250
 V8 250 CID BORE - 102.6mm/4.04"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB2000-6	2.000 O.D., 1 $\frac{5}{8}$ I.D., $\frac{9}{32}$ Depth
	Exh SB1687-3	1 $\frac{11}{16}$ O.D., 1 $\frac{7}{16}$ I.D., $\frac{1}{4}$ Depth, Also Available Non-Magnetic (N) Material
Valve	Int 01186	1.811 Head Diameter, 2 Groove, +15 O/S Stem Available
	Exh 01312S	1.517 Head Diameter, Stellite Face, 2 Groove
Keeper	Both 121-1000	2 RD Bead Type

4 251 C.I., (4.1L), 251, Gas, CARB, OHV, 12 Valve CHM251
 L6 251 CID BORE - 87.3mm/3.44"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1812-1	1 $\frac{13}{16}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{1}{4}$ Depth, Also Available In Non-Magnetic (N) Material
	Exh SB1640E-1	1.640 O.D., 1 $\frac{1}{8}$ I.D., $\frac{1}{4}$ Depth

(Cont'd) CHRYSLER / MARINE

260 C.I., (4.3L), 260, Gas, CARB, OHV, 16 Valve **CHM260 5**
 V8 260 CID **BORE - 107.95mm/4.20"**

PART		PART NO.	NOTES
Valve	Int	00548	2.080 Head Diameter,2 Groove,To S/N E44742
Keeper	Int	121-1000	2 RD Bead Type
Guide	Int	140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)

265 C.I., (4.3L), 265, Gas, CARB, OHV, 12 Valve **CHM265 6**
 L6 265 CID **BORE - 87.3mm/3.44"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 ¹³ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
	Exh	SB1640E-1	1.640 O.D.,1 ³ / ₈ I.D., ¹ / ₄ Depth
Guide	Both	140-1337	0.3445 I.D.,2.813 Length,0.6575 O.D.

265 C.I., (4.3L), M47, Gas, CARB, OHV, 12 Valve, ""Crown"" **M47 7**
 L6 265 CID **BORE - 87.3mm/3.44"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 ¹³ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
	Exh	SB1640E-1	1.640 O.D.,1 ³ / ₈ I.D., ¹ / ₄ Depth
Valve	Int	00298	1.718 Head Diameter,2 Groove
	Exh	00257	1.501 Head Diameter,2 Groove, W/.340 Stem
Keeper	Both	121-1001	2 RD Bead Type
Guide	Int	140-1338	0.3425 I.D.,2.813 Length,0.6575 O.D.,Tapered End To Spring Side
	Exh	140-1337	0.3445 I.D.,2.813 Length,0.6575 O.D.,Tapered End To Spring Side

280 C.I., (4.6L), 280, Gas, CARB, OHV, 16 Valve, ""4.20 Inch Bore"" **CHM280_4.20 8**
 V8 280 CID **BORE - 107.95mm/4.20"**

PART		PART NO.	NOTES
Valve	Int	00548	2.080 Head Diameter,2 Groove
Keeper	Int	121-1000	2 RD Bead Type

280 C.I., (4.6L), 280, Gas, CARB, OHV, 16 Valve, ""4.30 Inch Bore"" **CHM280_4.3 9**
 V8 280 CID **BORE - 110.287mm/4.30"**

PART		PART NO.	NOTES
Valve	Int	00548	2.080 Head Diameter,2 Groove
Keeper	Int	121-1000	2 RD Bead Type
Guide	Both	140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide

300 C.I., (4.9L), 300, Gas, CARB, OHV, 16 Valve **CHM300 10**
 V8 300 CID **BORE - 109.728mm/4.32"**

PART		PART NO.	NOTES
Valve	Int	00548	2.080 Head Diameter,2 Groove
Keeper	Int	121-1000	2 RD Bead Type
Guide	Both	140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide

318 C.I., (5.2L), 318, Gas, CARB, OHV, 16 Valve ""195 HP"" **CHM318_195 11**
 V8 318 CID **BORE - 99.3mm/3.91"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-10	2.000 O.D.,1 ¹ / ₁₆ I.D., ¹ / ₄ Depth
	Exh	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

CHRYSLER / MARINE (Cont'd)

11 318 C.I., (5.2L), 318, Gas, CARB, OHV, 16 Valve ""195 HP""

CHM318_195

(cont.) V8 318 CID

BORE - 99.3mm/3.91""

PART		PART NO.	NOTES
Valve	Int	01186	1.811 Head Diameter,2 Groove,+15 O/S Stem Available
	Exh	01312S	1.517 Head Diameter,Stellite Face, 2 Groove,From S/N E169354
Keeper	Both	121-1000	2 RD Bead Type
Stem Seal	Both	122-1031	Positive Type,Poly Material,2-Ring Style,W/ Integral Cast Guide & Single Spring
Guide	Int	140-9610	0.3750 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	160-1018	1.810 Length,W/ Rotator
Rotator	Both	161-1020	
Lifter	Both	VL89	Hydraulic Type
Rocker Components	Both	180-1077	Rocker Arm,L.H., Shaft Not Incl.
		180-1078	Rocker Arm,R.H., Shaft Not Incl.
		186-1100	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	190-1450	7.500 Length,+15 O/S (190-1450+15) & +45 O/S (190-1450+45) Available

12 318 C.I., (5.2L), 318, Gas, CARB, OHV, 16 Valve, ""195 HP Special 195""

CHM318_195S

V8 318 CID

BORE - 99.3mm/3.91""

PART		PART NO.	NOTES
Valve	Int	00938	1.780 Head Diameter,2 Groove,+15 O/S Stem Available
	Exh	01329	1.500 Head Diameter,4 Groove,OEM # 2465339, +15 O/S Stem Available
Keeper	Int	121-1000	2 RD Bead Type
	Exh	121-1014	4 RD Bead Type
Guide	Int	140-9610	0.3750 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Rotator	Both	161-1020	
Lifter	Both	VL89	Hydraulic Type
Rocker Components	Both	180-1077	Rocker Arm,L.H., Shaft Not Incl.
		180-1078	Rocker Arm,R.H., Shaft Not Incl.
		186-1100	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	190-1450	7.500 Length,+15 O/S (190-1450+15) & +45 O/S (190-1450+45) Available

13 318 C.I., (5.2L), 318, Gas, CARB, OHV, 16 Valve, ""Mechanical""

CHM318M

V8 318 CID

BORE - 99.3mm/3.91""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-10	2.000 O.D.,1 ¹ / ₁₆ I.D., ¹ / ₄ Depth
	Exh	SB1687-2	1 ¹¹ / ₁₆ O.D., ¹⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	00514	1.844 Head Diameter,2 Groove
	Exh	00518	1.563 Head Diameter,4 Groove
Keeper	Int	121-1000	2 RD Bead Type
	Exh	121-1014	4 RD Bead Type
Stem Seal	Both	122-1031	Positive Type,Poly Material,2-Ring Style,W/ Integral Cast Guide & Single Spring
Guide	Int	140-9610	0.3750 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide

(Cont'd) CHRYSLER / MARINE

318 C.I., (5.2L), 318, Gas, CARB, OHV, 16 Valve, ""Mechanical"" **CHM318M 13**
 V8 318 CID **BORE - 99.3mm/3.91"" (cont.)**

PART		PART NO.	NOTES
Guide	Exh	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)

324 C.I., (5.3L), 324, Gas, CARB, OHV, 16 Valve **CHM324 14**
 V8 324 CID **BORE - 82.5mm/3.25""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1500-6	1 $\frac{1}{2}$ O.D.,1 $\frac{3}{16}$ I.D., $\frac{1}{4}$ Depth

330 C.I., (5.4L), 330, Gas, CARB, OHV, 16 Valve **CHM330 15**
 V8 330 CID **BORE - 109.728mm/4.32""**

PART		PART NO.	NOTES
Valve	Int	00548	2.080 Head Diameter,2 Groove
Keeper	Int	121-1000	2 RD Bead Type
Guide	Both	140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide

331 C.I., (5.4L), 331, Gas, CARB, OHV, 16 Valve **CHM331 16**
 V8 331 CID **BORE - 96.8mm/3.80""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-2	1 $\frac{7}{8}$ O.D.,1 $\frac{1}{16}$ I.D., $\frac{1}{4}$ Depth,Early Design
		SB2125-10	2 $\frac{1}{8}$ O.D.,1 $\frac{3}{4}$ I.D., $\frac{9}{32}$ Depth,Late Design
	Exh	SB1625-1	1 $\frac{5}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,Late Design
		SB1687-7	1 $\frac{11}{16}$ O.D.,1 $\frac{3}{8}$ I.D., $\frac{1}{4}$ Depth,+5 O/S Available,Early Design

335 C.I., (5.5L), 335, Gas, CARB, OHV, 16 Valve **CHM335 17**
 V8 335 CID **BORE - 109.728mm/4.30""**

PART		PART NO.	NOTES
Valve	Int	00548	2.080 Head Diameter,2 Groove
Keeper	Int	121-1000	2 RD Bead Type
Guide	Both	140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Rocker Components	Both	180-1077	Rocker Arm,L.H., Shaft Not Incl.
		180-1078	Rocker Arm,R.H., Shaft Not Incl.
		186-1100	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	190-1450	7.500 Length,+15 O/S (190-1450+15) & +45 O/S (190-1450+45) Available

340 C.I., (5.6L), 340, Gas, CARB, OHV, 16 Valve **CHM340 18**
 V8 340 CID **BORE - 102.6mm/4.00""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-1	2.000 O.D.,1 $\frac{3}{4}$ I.D., $\frac{7}{32}$ Depth,Also Available In Non-Magnetic (N) Material
	Exh	SB1687-3	1 $\frac{11}{16}$ O.D.,1 $\frac{7}{16}$ I.D., $\frac{1}{4}$ Depth,Also Available Non-Magnetic (N) Material
Valve	Int	01186	1.811 Head Diameter,2 Groove,+15 O/S Stem Available
	Exh	01312S	1.517 Head Diameter,Stellite Face, 2 Groove,From S/N E169354
Keeper	Both	121-1000	2 RD Bead Type
Stem Seal	Both	122-1031	Positive Type,Poly Material,2-Ring Style
Lifter	Both	VL89	Hydraulic Type,(G Series)
Push Rod	Both	190-1450	7.500 Length,+15 O/S (190-1450+15) & +45 O/S (190-1450+45) Available

CHRYSLER / MARINE (Cont'd)

19 360 C.I., (5.6L), 360, Gas, CARB, OHV, 16 Valve
V8 360 CID

CHM360V
BORE - 101.6mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-6	2.000 O.D., 1 ⁵ / ₈ I.D., ⁹ / ₃₂ Depth
	Exh	SB1625-2	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	01186	1.811 Head Diameter, 2 Groove, +15 O/S Stem Available
	Exh	01312S	1.517 Head Diameter, Stellite Face, 2 Groove
Keeper	Both	121-1000	2 RD Bead Type
Guide	Both	140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Rotator	Both	161-1020	
Lifter	Both	VL89	Hydraulic Type
Rocker Components	Both	180-1077	Rocker Arm, L.H., Shaft Not Incl.
		180-1078	Rocker Arm, R.H., Shaft Not Incl.
		186-1100	Rocker Arm Shaft, 2 Required W/ Hydraulic Lifter
Push Rod	Both	190-1450	7.500 Length, +15 O/S (190-1450+15) & +45 O/S (190-1450+45) Available

20 361 C.I., (5.9L), M81, Gas, CARB, OHV, 16 Valve, ""Imperial""
V8 361 CID

CHM361
BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-1	2.000 O.D., 1 ³ / ₄ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1624E-1N	1.624 O.D., 1-21/64 I.D., ³ / ₈ Depth
		SB1625-20	1 ⁵ / ₈ O.D., 1 ⁵ / ₁₆ I.D., 0.3950 Depth, Optional Larger Depth
Keeper	Int	121-1014	4 RD Bead Type
	Exh	121-1000	2 RD Bead Type
Stem Seal	Both	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style, W/ Integral Cast Guide & Dual Spring
		122-1031	Positive Type, Poly Material, 2-Ring Style
Guide	Exh	140-1839	0.4385 I.D., 3.090 Length, 0.6887 O.D.
Lifter	Both	VL31	Mechanical High Performance Type

21 375 C.I., (6.1L), 375, Gas, CARB, OHV, 16 Valve
V8 375 CID

CHM375
BORE - 109.728mm/4.30"

PART		PART NO.	NOTES
Valve	Int	00548	2.080 Head Diameter, 2 Groove
Keeper	Int	121-1000	2 RD Bead Type
Guide	Both	140-9113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide

22 383 C.I., (6.3L), 383, Gas, CARB, OHV, 16 Valve
V8 383 CID

CHM383
BORE - 107.95mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2250-1	2 ¹ / ₄ O.D., 1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	SB1750-1	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ¹ / ₄ Depth, +10 O/S Available, Also Available In Non Magnetic (N) Material
Valve	Int	00548	2.080 Head Diameter, 2 Groove
Keeper	Int	121-1000	2 RD Bead Type
Stem Seal	Both	122-1011	Positive Type, Tef/Rub Material, 1-Ring Style, W/ Integral Cast Guide & Dual Spring, 0.500 Guide O.D.
		122-1031	Positive Type, Poly Material, 2-Ring Style, 0.625 O.D. Valve Guide
Guide	Int	140-9113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide

(Cont'd) CHRYSLER / MARINE**383 C.I., (6.3L), 383, Gas, CARB, OHV, 16 Valve**
V8 383 CIDCHM383 **22**
BORE - 107.95mm/4.20"

PART		PART NO.	NOTES
Guide	Exh	140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Rocker Components	Both	180-1055 180-1056	Rocker Arm, L.H. Rocker Arm, R.H.
Push Rod	Both	190-1408	8.575 Length

400 C.I., (6.6L), 400, Gas, CARB, OHV, 16 Valve
V8 400 CIDCHM400 **23**
BORE - 110.287mm/4.30"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB2250-1 SB1875-1	2¼ O.D., 1 ¹⁵ / ₁₆ I.D., ¾ Depth 1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., ¼ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	00548	2.080 Head Diameter, 2 Groove
Keeper	Int	121-1000	2 RD Bead Type
Stem Seal	Both	122-1031	Positive Type, Poly Material, 2-Ring Style, W/ Integral Cast Guide
Guide	Both	140-9113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Lifter	Both	VL64	Hydraulic Type
Rocker Components	Both	180-1055 180-1056	Rocker Arm, L.H. Rocker Arm, R.H.
Push Rod	Both	190-1408	8.575 Length

440 C.I., (7.2L), 440, Gas, CARB, OHV, 16 Valve
V8 440 CIDCHM440 **24**
BORE - 109.728mm/4.30"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB2250-1 SB1875-1	2¼ O.D., 1 ¹⁵ / ₁₆ I.D., ¾ Depth 1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., ¼ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	00548	2.080 Head Diameter, 2 Groove
Keeper	Int	121-1000	2 RD Bead Type
Stem Seal	Both	122-1011 122-1031	Positive Type, Tef/Rub Material, 1-Ring Style, 0.500 O.D. Valve Guide Positive Type, Poly Material, 2-Ring Style, 0.625 O.D. Valve Guide
Guide	Both	140-9113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Lifter	Both	VL64	Hydraulic Type
Rocker Components	Both	180-1055 180-1056	Rocker Arm, L.H. Rocker Arm, R.H.
Push Rod	Both	190-1408	8.575 Length

CLIMAX / HEAVY DUTY

Engine	Models	Line No.
1 Cylinder		
66 C.I., (1.1L), C66, GAS, OHV, 2 Valve, ""Industrial""	C66 Industrial Engine	1

66 C.I., (1.1L), C66, GAS, OHV, 2 Valve, ""Industrial""
L1 66 CIDC66 **1**
BORE - 146mm/5.75"

PART		PART NO.	NOTES
Guide	Both	140-5379	0.5625 I.D., 3.000 Length, 0.8760 O.D.

CONTINENTAL / HEAVY DUTY

Engine	Models	Line No.
2 Cylinder		
79 C.I., (1.3L), TM13/TMD13, Gas/Diesel, OHV, 4 Valve		7
3 Cylinder		
122 C.I., (2.0L), TM20/TMD20, Gas/Diesel, OHV, 6 Valve		16
4 Cylinder		
62 C.I., (1.0L), N62, Gas, OHV, 8 Valve		1
62 C.I., (1.0L), N4062, Gas, OHV, 8 Valve		2
69 C.I., (1.1L), LY69, Gas, OHV, 8 Valve		3
69 C.I., (1.1L), PY69, Gas, OHV, 8 Valve		4
69 C.I., (1.1L), Y69, Gas, OHV, 8 Valve		5
69 C.I., (1.1L), Y4069, Gas, OHV, 8 Valve		6
91 C.I., (1.5L), LY91, Gas, OHV, 8 Valve		8
91 C.I., (1.5L), PY91, Gas, OHV, 8 Valve		9
91 C.I., (1.5L), Y91, Gas, OHV, 8 Valve		10
91 C.I., (1.5L), Y4091, Gas, OHV, 8 Valve		11
112 C.I., (1.8L), PY112, Gas, OHV, 8 Valve		12
112 C.I., (1.8L), Y112, Gas, OHV, 8 Valve		13
112 C.I., (1.8L), Y4112, Gas, OHV, 8 Valve		14
120 C.I., (2.0L), Z120, Gas, OHV, 8 Valve		15
124 C.I., (2.1L), F124, Gas, OHV, 8 Valve		17
124 C.I., (2.1L), F4124, Gas, OHV, 8 Valve		18
124 C.I., (2.1L), LF124, Gas, OHV, 8 Valve		19
124 C.I., (2.1L), PF124, Gas, OHV, 8 Valve		20
129 C.I., (2.1L), Z129, Gas, OHV, 8 Valve		21
134 C.I., (2.2L), Z134, Gas, OHV, 8 Valve		22
135 C.I., (2.2L), F135, Gas, OHV, 8 Valve		23
140 C.I., (2.3L), F140, Gas, OHV, 8 Valve		24
140 C.I., (2.3L), F4140, Gas, OHV, 8 Valve		25
140 C.I., (2.3L), LF140, Gas, OHV, 8 Valve		26
145 C.I., (2.4L), Z145, Gas, OHV, 8 Valve		28
162 C.I., (2.6L), F162, Gas, OHV, 8 Valve		29
162 C.I., (2.6L), F4162, Gas, OHV, 8 Valve		30
162 C.I., (2.6L), LF162, Gas, OHV, 8 Valve		31
162 C.I., (2.6L), PF162, Gas, OHV, 8 Valve		32
163 C.I., (2.7L), F163, Gas, OHV, 8 Valve		33
165 C.I., (2.7L), TM27/TMD27/TMDT27, Gas/Diesel, OHV, 8 Valve, ""N/A & TURBO""		34
176 C.I., (2.9L), G176/G176LPG, Gas/LPG, OHV, 8 Valve		35
186 C.I., (3.0L), F186, Gas, OHV, 8 Valve		36
193 C.I., (3.2L), G193, Gas, OHV, 8 Valve		38
193 C.I., (3.2L), G4193, Gas, OHV, 8 Valve		39
201 C.I., (3.3L), E201, Gas, OHV, 8 Valve		40
208 C.I., (3.4L), E208, Gas, OHV, 8 Valve		42
208 C.I., (3.4L), E208, LPG, OHV, 8 Valve		43
223 C.I., (3.7L), E223, Gas, OHV, 8 Valve		48

(Cont'd) **CONTINENTAL / HEAVY DUTY**

Engine	Models	Line No.
4 Cylinder		
223 C.I., (3.7L), E223, LPG, OHV, 8 Valve		49
242 C.I., (4.0L), E242, Gas, OHV, 8 Valve		54
242 C.I., (4.0L), E242, LPG, OHV, 8 Valve		55
260 C.I., (4.3L), H260, Gas, OHV, 8 Valve		57
260 C.I., (4.3L), HD260, Diesel, OHV, 8 Valve		58
277 C.I., (4.5L), H277, Gas, OHV, 8 Valve		60
277 C.I., (4.5L), HD277, Diesel, OHV, 8 Valve		61
6 Cylinder		
140 C.I., (2.3L), PF140, Gas, OHV, 12 Valve		27
186 C.I., (3.0L), F6186 Gas, OHV, 12 Valve		37
202 C.I., (3.3L), DS202, Diesel, OHV, 12 Valve		41
209 C.I., (3.4L), 24B, Gas, OHV, 12 Valve		44
209 C.I., (3.4L), F209, Gas, OHV, 12 Valve		45
209 C.I., (3.4L), F6209, Gas, OHV, 12 Valve		46
209 C.I., (3.4L), PF209, Gas, OHV, 12 Valve		47
226 C.I., (3.7L), F226, Gas, OHV, 12 Valve		50
226 C.I., (3.7L), F6226, Gas, OHV, 12 Valve		51
226 C.I., (3.7L), PF226, Gas, OHV, 12 Valve		52
226 C.I., (3.7L), F227, Gas, OHV, 12 Valve		53
244 C.I., (4.0L), F245, Gas, OHV, 12 Valve		56
271 C.I., (4.4L), M271, Gas, OHV, 12 Valve		59
290 C.I., (4.7L), M290, Gas, OHV, 12 Valve		62
330 C.I., (5.4L), M330, Gas, OHV, 12 Valve		63
62 C.I., (1.0L), N62, Gas, OHV, 8 Valve		N62 1
L4 62 CID		BORE - 60.3mm/2.374"
PART	PART NO.	NOTES
Valve Seat Insert	Both SB1000-1	1 O.D., 3/4 I.D., 3/16 Depth
Guide	Both 140-1678	0.3164 I.D., 1.658 Length, 0.5643 O.D.
62 C.I., (1.0L), N4062, Gas, OHV, 8 Valve		N4062 2
L4 62 CID		BORE - 60.3mm/2.374"
PART	PART NO.	NOTES
Valve Seat Insert	Both SB1000-1	1 O.D., 3/4 I.D., 3/16 Depth
69 C.I., (1.1L), LY69, Gas, OHV, 8 Valve		LY69 3
L4 69 CID		BORE - 63.5mm/2.50"
PART	PART NO.	NOTES
Valve Seat Insert	Int SB1312-1 Exh SB1125-1	1 5/16 O.D., 1 1/16 I.D., 3/16 Depth 1 1/8 O.D., 7/8 I.D., 7/32 Depth
Valve	Int 01365 Exh 00489	1.203 Head Diameter, W/ Late Style Valve Keeper 1.015 Head Diameter, W/ Rotator & Late Style Valve Keeper
Keeper	Both 121-1011	1 SQ Bead Type
Guide	Both 140-1619	0.3163 I.D., 2.281 Length, 0.5645 O.D.
Spring	Both 160-1401	2.063 Length

CONTINENTAL / HEAVY DUTY (Cont'd)

4 69 C.I., (1.1L), PY69, Gas, OHV, 8 Valve
L4 69 CID

PY69
BORE - 63.5mm/2.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1312-1	1 ⁵ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	SB1125-1	1 ¹ / ₈ O.D., ⁷ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int	01365	1.203 Head Diameter, W/ Late Style Valve Keeper
	Exh	00489	1.015 Head Diameter, W/ Rotator & Late Style Valve Keeper
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1619	0.3163 I.D., 2.281 Length, 0.5645 O.D.
Spring	Both	160-1401	2.063 Length

5 69 C.I., (1.1L), Y69, Gas, OHV, 8 Valve
L4 69 CID

Y69
BORE - 63.5mm/2.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1312-1	1 ⁵ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	SB1125-1	1 ¹ / ₈ O.D., ⁷ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int	01365	1.203 Head Diameter, W/ Late Style Valve Keeper
	Exh	00489	1.015 Head Diameter, W/ Rotator & Late Style Valve Keeper
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1619	0.3163 I.D., 2.281 Length, 0.5645 O.D.
Spring	Both	160-1401	2.063 Length, Long Spring, OEM # CNY400I00215

6 69 C.I., (1.1L), Y4069, Gas, OHV, 8 Valve
L4 69 CID

Y4069
BORE - 63.5mm/2.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1312-1	1 ⁵ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	SB1125-1	1 ¹ / ₈ O.D., ⁷ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int	01365	1.203 Head Diameter, W/ Late Style Valve Keeper
	Exh	00489	1.015 Head Diameter, W/ Rotator & Late Style Valve Keeper
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1619	0.3163 I.D., 2.281 Length, 0.5645 O.D.
Spring	Both	160-1401	2.063 Length

7 79 C.I., (1.3L), TM13/TMD13, Gas/Diesel, OHV, 4 Valve
L2 79 CID

TM13
BORE - 91.008mm/3.583"

PART		PART NO.	NOTES
Valve	Int	13016	1.652 Head Diameter, Gasoline, LPG, Natural Gas, OEM # TM27100504
		13018	1.652 Head Diameter, Diesel, OEM #'s TMD27100502
	Exh	13017	1.357 Head Diameter, Gasoline, LPG, Natural Gas, OEM # TM27100505
		13019	1.357 Head Diameter, Diesel, OEM # TMD27100501
Keeper	Both	121-1003	1 SQ Bead Type, OEM # CVT03234
Guide	Both	140-1962	0.3433 I.D., 2.375 Length, 0.6570 O.D., OEM # TM27100316

8 91 C.I., (1.5L), LY91, Gas, OHV, 8 Valve
L4 91 CID

LY91
BORE - 73.025mm/2.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1312-1	1 ⁵ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	SB1125-1	1 ¹ / ₈ O.D., ⁷ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int	01365	1.203 Head Diameter, W/ Late Style Valve Keeper
	Exh	00489	1.015 Head Diameter, W/ Rotator & Late Style Valve Keeper
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1619	0.3163 I.D., 2.281 Length, 0.5645 O.D.

(Cont'd) **CONTINENTAL / HEAVY DUTY**

91 C.I., (1.5L), LY91, Gas, OHV, 8 Valve LY91 **8**
L4 91 CID BORE - 73.025mm/2.875"^{***} (cont.)

PART		PART NO.	NOTES
Spring	Both	160-1401	2.063 Length

91 C.I., (1.5L), PY91, Gas, OHV, 8 Valve PY91 **9**
L4 91 CID BORE - 73.025mm/2.875"^{***}

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1312-1	1 ⁵ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	SB1125-1	1 ¹ / ₈ O.D., ⁷ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int	01365	1.203 Head Diameter, W/ Late Style Valve Keeper
	Exh	00489	1.015 Head Diameter, W/ Rotator & Late Style Valve Keeper
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1619	0.3163 I.D., 2.281 Length, 0.5645 O.D.
Spring	Both	160-1401	2.063 Length

91 C.I., (1.5L), Y91, Gas, OHV, 8 Valve Y91 **10**
L4 91 CID BORE - 73.025mm/2.875"^{***}

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1312-1	1 ⁵ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	SB1125-1	1 ¹ / ₈ O.D., ⁷ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int	01365	1.203 Head Diameter, W/ Late Style Valve Keeper
	Exh	00489	1.015 Head Diameter, W/ Rotator & Late Style Valve Keeper
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1619	0.3163 I.D., 2.281 Length, 0.5645 O.D.
Spring	Both	160-1401	2.063 Length

91 C.I., (1.5L), Y4091, Gas, OHV, 8 Valve Y4091 **11**
L4 91 CID BORE - 73.025mm/2.875"^{***}

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1312-1	1 ⁵ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	SB1125-1	1 ¹ / ₈ O.D., ⁷ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int	01365	1.203 Head Diameter, W/ Late Style Valve Keeper
	Exh	00489	1.015 Head Diameter, W/ Rotator & Late Style Valve Keeper
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1619	0.3163 I.D., 2.281 Length, 0.5645 O.D.
Spring	Both	160-1401	2.063 Length

112 C.I., (1.8L), PY112, Gas, OHV, 8 Valve PY112 **12**
L4 112 CID BORE - 80.96mm/3.1874"^{***}

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1312-1	1 ⁵ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	SB1125-1	1 ¹ / ₈ O.D., ⁷ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int	01365	1.203 Head Diameter, W/ Late Style Valve Keeper
	Exh	00489	1.015 Head Diameter, W/ Rotator & Late Style Valve Keeper
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1619	0.3163 I.D., 2.281 Length, 0.5645 O.D.
Spring	Both	160-1401	2.063 Length

CONTINENTAL / HEAVY DUTY (Cont'd)

13 112 C.I., (1.8L), Y112, Gas, OHV, 8 Valve

Y112

L4 112 CID

BORE - 80.96mm/3.1874"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1312-1	1 ⁵ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	SB1125-1	1 ¹ / ₈ O.D., ⁷ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int	01365	1.203 Head Diameter, W/ Late Style Valve Keeper
	Exh	00489	1.015 Head Diameter, W/ Rotator & Late Style Valve Keeper
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1619	0.3163 I.D., 2.281 Length, 0.5645 O.D.
Spring	Both	160-1401	2.063 Length

14 112 C.I., (1.8L), Y4112, Gas, OHV, 8 Valve

Y4112

L4 112 CID

BORE - 80.96mm/3.1874"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1312-1	1 ⁵ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	SB1125-1	1 ¹ / ₈ O.D., ⁷ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int	01365	1.203 Head Diameter, W/ Late Style Valve Keeper
	Exh	00489	1.015 Head Diameter, W/ Rotator & Late Style Valve Keeper
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1619	0.3163 I.D., 2.281 Length, 0.5645 O.D.
Spring	Both	160-1401	2.063 Length

15 120 C.I., (2.0L), Z120, Gas, OHV, 8 Valve

Z120

L4 120 CID

BORE - 80.96mm/3.1874"

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1125-1	1 ¹ / ₈ O.D., ⁷ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Both	00234	1.015 Head Diameter, Drilled Stem
		00489	1.015 Head Diameter, W/ Rotator & Late Style Valve Keeper
Keeper	Both	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
		121-1011	1 SQ Bead Type
Stem Seal	Both	322-1002	Positive Type, Teflon Material, All Teflon Style, Machine Guide To 0.531 O.D.
Guide	Both	140-1717	0.3170 I.D., 1.813 Length, 0.5643 O.D.
Spring	Both	160-1401	2.063 Length

16 122 C.I., (2.0L), TM20/TMD20, Gas/Diesel, OHV, 6 Valve

TM20

L3 122 CID

BORE - 91.008mm/3.583"

PART		PART NO.	NOTES
Valve	Int	13016	1.652 Head Diameter, Gas, OEM # TM27100504
		13018	1.652 Head Diameter, Diesel, OEM #'s TMD27100502
	Exh	13017	1.357 Head Diameter, Gas, OEM # TM27100505
		13019	1.357 Head Diameter, Diesel, OEM # TMD27100501
Keeper	Both	121-1003	1 SQ Bead Type, OEM # CVT03234
Guide	Both	140-1962	0.3433 I.D., 2.375 Length, 0.6570 O.D., OEM # TM27100316

17 124 C.I., (2.1L), F124, Gas, OHV, 8 Valve

F124

L4 124 CID

BORE - 76.2mm/3.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-3	1 ³ / ₈ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.203 Valve Head Dia.
		SB1375-3N	1 ³ / ₈ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth, LPG, W/ 1.203 Valve Head Dia.

(Cont'd) **CONTINENTAL / HEAVY DUTY**

124 C.I., (2.1L), F124, Gas, OHV, 8 Valve
L4 124 CID

F124 17
BORE - 76.2mm/3.00''' (cont.)

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1437-3	17/16 O.D., 13/16 I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.328 Valve Head Dia.
		SB1437-3N	17/16 O.D., 13/16 I.D., 7/32 Depth, LPG, W/ 1.328 Valve Head Dia.
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00170	1.203 Head Diameter, Drilled Stem
		00196	1.328 Head Diameter, Drilled Stem
Keeper	Exh	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020''; Pin Diameter 0.130'''
Guide	Both	140-1620	0.3425 I.D., 2.313 Length, 0.6573 O.D.
Spring	Both	160-1401	2.063 Length

124 C.I., (2.1L), F4124, Gas, OHV, 8 Valve
L4 124 CID

F4124 18
BORE - 76.2mm/3.00'''

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	15/8 O.D., 13/8 I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-3	13/8 O.D., 11/16 I.D., 3/16 Depth, Also Available In Non-Magnetic (N) Material, W/ 1.203 Valve Head Dia.
		SB1375-3N	13/8 O.D., 11/16 I.D., 3/16 Depth, LPG, W/ 1.203 Valve Head Dia.
		SB1437-3	17/16 O.D., 13/16 I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.328 Valve Head Dia.
	SB1437-3N	17/16 O.D., 13/16 I.D., 7/32 Depth, LPG, W/ 1.328 Valve Head Dia.	
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00170	1.203 Head Diameter, Drilled Stem
		00196	1.328 Head Diameter, Drilled Stem
Keeper	Exh	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020''; Pin Diameter 0.130'''
Guide	Both	140-1620	0.3425 I.D., 2.313 Length, 0.6573 O.D.
Spring	Both	160-1401	2.063 Length

124 C.I., (2.1L), LF124, Gas, OHV, 8 Valve
L4 124 CID

LF124 19
BORE - 76.2mm/3.00'''

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	15/8 O.D., 13/8 I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-3	13/8 O.D., 11/16 I.D., 3/16 Depth, Also Available In Non-Magnetic (N) Material, W/ 1.203 Valve Head Dia.
		SB1375-3N	13/8 O.D., 11/16 I.D., 3/16 Depth, LPG, W/ 1.203 Valve Head Dia.
		SB1437-3	17/16 O.D., 13/16 I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.328 Valve Head Dia.
	SB1437-3N	17/16 O.D., 13/16 I.D., 7/32 Depth, LPG, W/ 1.328 Valve Head Dia.	
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00170	1.203 Head Diameter, Drilled Stem
		00196	1.328 Head Diameter, Drilled Stem
Keeper	Exh	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020''; Pin Diameter 0.130'''
Guide	Both	140-1620	0.3425 I.D., 2.313 Length, 0.6573 O.D.
Spring	Both	160-1401	2.063 Length

CONTINENTAL / HEAVY DUTY (Cont'd)

20 124 C.I., (2.1L), PF124, Gas, OHV, 8 Valve
L4 124 CID

PF124
BORE - 76.2mm/3.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-3	1 ³ / ₈ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.203 Valve Head Dia.
		SB1375-3N	1 ³ / ₈ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth, LPG, W/ 1.203 Valve Head Dia.
		SB1437-3	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.328 Valve Head Dia.
		SB1437-3N	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, LPG, W/ 1.328 Valve Head Dia.
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00170	1.203 Head Diameter, Drilled Stem
		00196	1.328 Head Diameter, Drilled Stem
Keeper	Exh	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
Guide	Both	140-1620	0.3425 I.D., 2.313 Length, 0.6573 O.D.
Spring	Both	160-1401	2.063 Length

21 129 C.I., (2.1L), Z129, Gas, OHV, 8 Valve
L4 129 CID

Z129
BORE - 82.55mm/3.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1375-4	1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., ³ / ₁₆ Depth
	Exh	SB1250-1	1 ¹ / ₄ O.D., 1.000 I.D., ⁷ / ₃₂ Depth
Valve	Int	00343	1.278 Head Diameter, Drilled Stem
	Exh	00486	1.140 Head Diameter, 1 Groove, W/ Rotocap. New Design, Does Not Require Lash Cap
Keeper	Int	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
	Exh	121-1011	1 SQ Bead Type
Stem Seal	Both	322-1002	Positive Type, Teflon Material, All Teflon Style, Machine Guide To 0.531 O.D.
Guide	Both	140-1717	0.3170 I.D., 1.813 Length, 0.5643 O.D.
Spring	Both	160-1401	2.063 Length

22 134 C.I., (2.2L), Z134, Gas, OHV, 8 Valve
L4 134 CID

Z134
BORE - 84.150mm/3.313"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1375-4	1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., ³ / ₁₆ Depth
	Exh	SB1250-1	1 ¹ / ₄ O.D., 1.000 I.D., ⁷ / ₃₂ Depth
Valve	Int	00343	1.278 Head Diameter, Drilled Stem, OEM # 1750070M1
	Exh	00486	1.140 Head Diameter, 1 Groove, W/ Rotocap. New Design, Does Not Require Lash Cap
Keeper	Int	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
	Exh	121-1011	1 SQ Bead Type
Stem Seal	Both	322-1002	Positive Type, Teflon Material, All Teflon Style, Machine Guide To 0.531 O.D.
Guide	Both	140-1717	0.3170 I.D., 1.813 Length, 0.5643 O.D.
Spring	Both	160-1401	2.063 Length

23 135 C.I., (2.2L), F135, Gas, OHV, 8 Valve
L4 135 CID

F135
BORE - 79.375mm/3.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

(Cont'd) **CONTINENTAL / HEAVY DUTY**

135 C.I., (2.2L), F135, Gas, OHV, 8 Valve

F135 23

L4 135 CID

BORE - 79.375mm/3.125" (cont.)

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1375-3	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, Also Available In Non-Magnetic (N) Material 1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, LPG, W/ 1.203 Valve Head Dia.
		SB1375-3N	
Valve	Int	01148	1.516 Head Diameter, All
	Exh	01147	1.203 Head Diameter, Except LPG
		01693S	1.203 Head Diameter, Stellite Face, LPG
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Both	140-1962	0.3433 I.D., 2.375 Length, 0.6570 O.D.
Spring	Both	160-1401	2.063 Length

140 C.I., (2.3L), F140, Gas, OHV, 8 Valve

F140 24

L4 140 CID

BORE - 80.96mm/3.1874"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.203 Valve Head Dia. 1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, LPG, W/ 1.203 Valve Head Dia. 1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.328 Valve Head Dia. 1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, LPG, W/ 1.328 Valve Head Dia.
	Exh	SB1375-3	
		SB1375-3N	
		SB1437-3	
		SB1437-3N	
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00170	1.203 Head Diameter, Drilled Stem
		00196	1.328 Head Diameter, Drilled Stem
Keeper	Exh	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
Guide	Both	140-1620	0.3425 I.D., 2.313 Length, 0.6573 O.D.
Spring	Both	160-1401	2.063 Length

140 C.I., (2.3L), F4140, Gas, OHV, 8 Valve

F4140 25

L4 140 CID

BORE - 80.96mm/3.1874"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.203 Valve Head Dia. 1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, LPG, W/ 1.203 Valve Head Dia. 1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.328 Valve Head Dia. 1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, LPG, W/ 1.328 Valve Head Dia.
	Exh	SB1375-3	
		SB1375-3N	
		SB1437-3	
		SB1437-3N	
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00170	1.203 Head Diameter, Drilled Stem
		00196	1.328 Head Diameter, Drilled Stem
Keeper	Exh	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
Guide	Both	140-1620	0.3425 I.D., 2.313 Length, 0.6573 O.D.
Spring	Both	160-1401	2.063 Length

140 C.I., (2.3L), LF140, Gas, OHV, 8 Valve

LF140 26

L4 140 CID

BORE - 80.96mm/3.1874"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

CONTINENTAL / HEAVY DUTY (Cont'd)

26 140 C.I., (2.3L), LF140, Gas, OHV, 8 Valve
(cont.) L4 140 CID

LF140

BORE - 80.96mm/3.1874"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1375-3	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.203 Valve Head Dia.
		SB1375-3N	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, LPG, W/ 1.203 Valve Head Dia.
		SB1437-3	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.328 Valve Head Dia.
		SB1437-3N	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, LPG, W/ 1.328 Valve Head Dia.
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00170	1.203 Head Diameter, Drilled Stem
		00196	1.328 Head Diameter, Drilled Stem
Keeper	Exh	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
Guide	Both	140-1620	0.3425 I.D., 2.313 Length, 0.6573 O.D.
Spring	Both	160-1401	2.063 Length

27 140 C.I., (2.3L), PF140, Gas, OHV, 12 Valve
L6 140 CID

PF140

BORE - 80.96mm/3.1874"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-3	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.203 Valve Head Dia.
		SB1375-3N	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, LPG, W/ 1.203 Valve Head Dia.
		SB1437-3	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.328 Valve Head Dia.
		SB1437-3N	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, LPG, W/ 1.328 Valve Head Dia.
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00170	1.203 Head Diameter, Drilled Stem
		00196	1.328 Head Diameter, Drilled Stem
Keeper	Exh	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
Guide	Both	140-1620	0.3425 I.D., 2.313 Length, 0.6573 O.D.
Spring	Both	160-1401	2.063 Length

28 145 C.I., (2.4L), Z145, Gas, OHV, 8 Valve
L4 145 CID

Z145

BORE - 85.725mm/3.375"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1375-4	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{3}{16}$ Depth
	Exh	SB1250-1	1 $\frac{1}{4}$ O.D., 1.000 I.D., $\frac{7}{32}$ Depth
Valve	Int	00343	1.278 Head Diameter, Drilled Stem
	Exh	00486	1.140 Head Diameter, 1 Groove, W/ Rotocap. New Design, Does Not Require Lash Cap
Keeper	Int	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
	Exh	121-1011	1 SQ Bead Type
Stem Seal	Both	322-1002	Positive Type, Teflon Material, All Teflon Style, Machine Guide To 0.531 O.D.
Guide	Both	140-1717	0.3170 I.D., 1.813 Length, 0.5643 O.D.
Spring	Both	160-1401	2.063 Length

(Cont'd) **CONTINENTAL / HEAVY DUTY**

162 C.I., (2.6L), F162, Gas, OHV, 8 Valve
L4 162 CID

F162 29
BORE - 87.3mm/3.437"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-3	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.203 Valve Head Dia.
		SB1437-3	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.328 Valve Head Dia.
		SB1437-3N	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, LPG, W/ 1.328 Valve Head Dia.
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00170	1.203 Head Diameter, Drilled Stem
		00196	1.328 Head Diameter, Drilled Stem
Keeper	Exh	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
Guide	Int	140-1620	0.3425 I.D., 2.313 Length, 0.6573 O.D.
Spring	Both	160-1401	2.063 Length

162 C.I., (2.6L), F4162, Gas, OHV, 8 Valve
L4 162 CID

F4162 30
BORE - 87.3mm/3.437"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-3	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.203 Valve Head Dia.
		SB1375-3N	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, LPG, W/ 1.203 Valve Head Dia.
		SB1437-3	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.328 Valve Head Dia.
SB1437-3N	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, LPG, W/ 1.328 Valve Head Dia.		
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00170	1.203 Head Diameter, Drilled Stem
		00196	1.328 Head Diameter, Drilled Stem
Keeper	Exh	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
Guide	Both	140-1620	0.3425 I.D., 2.313 Length, 0.6573 O.D.

162 C.I., (2.6L), LF162, Gas, OHV, 8 Valve
L4 162 CID

LF162 31
BORE - 87.3mm/3.437"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-3	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.203 Valve Head Dia.
		SB1375-3N	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, LPG, W/ 1.203 Valve Head Dia.
		SB1437-3	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.328 Valve Head Dia.
SB1437-3N	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, LPG, W/ 1.328 Valve Head Dia.		
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00170	1.203 Head Diameter, Drilled Stem
		00196	1.328 Head Diameter, Drilled Stem
Keeper	Exh	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
Guide	Both	140-1620	0.3425 I.D., 2.313 Length, 0.6573 O.D.
Spring	Both	160-1401	2.063 Length

CONTINENTAL / HEAVY DUTY (Cont'd)

32 162 C.I., (2.6L), PF162, Gas, OHV, 8 Valve
L4 162 CID

PF162
BORE - 87.3mm/3.437"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-3	1 ³ / ₈ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.203 Valve Head Dia.
		SB1375-3N	1 ³ / ₈ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth, LPG, W/ 1.203 Valve Head Dia.
		SB1437-3	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.328 Valve Head Dia.
		SB1437-3N	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, LPG, W/ 1.328 Valve Head Dia.
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00170	1.203 Head Diameter, Drilled Stem
		00196	1.328 Head Diameter, Drilled Stem
Keeper	Exh	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
Guide	Both	140-1620	0.3425 I.D., 2.313 Length, 0.6573 O.D.
Spring	Both	160-1401	2.063 Length

33 163 C.I., (2.7L), F163, Gas, OHV, 8 Valve
L4 163 CID

F163
BORE - 87.3mm/3.437"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1348E-1N	1.348 O.D., 1.087 I.D., 0.2000 Depth, +10 O/S Available
Valve	Int	01148	1.516 Head Diameter, All
	Exh	01147	1.203 Head Diameter, Except LPG
		01693S	1.203 Head Diameter, Stellite Face, LPG
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Both	140-1962	0.3433 I.D., 2.375 Length, 0.6570 O.D.
Spring	Both	160-1401	2.063 Length

34 165 C.I., (2.7L), TM27/TMD27/TMDT27, Gas/Diesel, OHV, 8 Valve, ""N/A & TURBO""

L4 165 CID

TM27
BORE - 91.008mm/3.583"

PART		PART NO.	NOTES
Valve	Int	13016	1.652 Head Diameter, Gas, OEM # TM27I00504
		13018	1.652 Head Diameter, Diesel, OEM # TMD27I00502
	Exh	13017	1.357 Head Diameter, Gas, OEM # TM27I00505
		13019	1.357 Head Diameter, Diesel, OEM # TMD27I00501
Keeper	Both	121-1003	1 SQ Bead Type, OEM # CVT03234
Guide	Both	140-1962	0.3433 I.D., 2.375 Length, 0.6570 O.D., OEM # TM27I00316

35 176 C.I., (2.9L), G176/G176LPG, Gas/LPG, OHV, 8 Valve
L4 176 CID

G176
BORE - 90.932mm/3.58"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1437-3	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1348E-1N	1.348 O.D., 1.087 I.D., 0.2000 Depth, +10 O/S Available
Valve	Int	13105	1.328 Head Diameter, OEM # 1019742M1; NOTE: Except LPG
	Exh	13106S	1.203 Head Diameter, Stellite Face, OEM # 1019743M1; NOTE: Includes LPG
Guide	Both	140-1833	0.3432 I.D., 1.813 Length, 0.6575 O.D.

(Cont'd) **CONTINENTAL / HEAVY DUTY**

186 C.I., (3.0L), F186, Gas, OHV, 8 Valve **F186 36**
L4 186 CID BORE - 76.2mm/3.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00196	1.328 Head Diameter, Drilled Stem
Guide	Both	140-1515	0.3427 I.D., 2.563 Length, 0.6573 O.D.

186 C.I., (3.0L), F6186 Gas, OHV, 12 Valve **F6186 37**
L6 186 CID BORE - 76.2mm/3.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00196	1.328 Head Diameter, Drilled Stem
Guide	Both	140-1515	0.3427 I.D., 2.563 Length, 0.6573 O.D.

193 C.I., (3.2L), G193, Gas, OHV, 8 Valve **G193 38**
L4 193 CID BORE - 95.25mm/3.75"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 $\frac{13}{16}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{1}{4}$ Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1437-3N	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth
Valve	Int	00867	1.641 Head Diameter
	Exh	01055	1.375 Head Diameter
Guide	Both	140-1970	0.3433 I.D., 2.719 Length, 0.6575 O.D.

193 C.I., (3.2L), G4193, Gas, OHV, 8 Valve **G4193 39**
L4 193 CID BORE - 95.25mm/3.75"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 $\frac{13}{16}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{1}{4}$ Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1437-3N	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth
Valve	Int	00867	1.641 Head Diameter
	Exh	01055	1.375 Head Diameter
Guide	Both	140-1970	0.3433 I.D., 2.719 Length, 0.6575 O.D.

201 C.I., (3.3L), E201, Gas, OHV, 8 Valve **E201 40**
L4 201 CID BORE - 92mm/3.622"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-1	1 $\frac{9}{16}$ O.D., 1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

202 C.I., (3.3L), DS202, Diesel, OHV, 12 Valve **DS202 41**
L6 202 CID BORE - 79.3mm/3.122"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-3	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, Also Available In Non-Magnetic (N) Material
Guide	Both	140-1470	0.3750 I.D., 2.750 Length, 0.6573 O.D.

CONTINENTAL / HEAVY DUTY (Cont'd)

42 208 C.I., (3.4L), E208, Gas, OHV, 8 Valve

E208

L4 208 CID

BORE - 93.663mm/3.6875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3N	

43 208 C.I., (3.4L), E208, LPG, OHV, 8 Valve

E208LP

L4 208 CID

BORE - 93.663mm/3.6875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3N	

44 209 C.I., (3.4L), 24B, Gas, OHV, 12 Valve

24B

L6 209 CID

BORE - 80.96mm/3.1874"

PART		PART NO.	NOTES
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00170	1.203 Head Diameter, Drilled Stem
		00196	1.328 Head Diameter, Drilled Stem
Keeper	Exh	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
Guide	Both	140-1515	0.3427 I.D., 2.563 Length, 0.6573 O.D.

45 209 C.I., (3.4L), F209, Gas, OHV, 12 Valve

F209

L6 209 CID

BORE - 80.96mm/3.1874"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		Exh		SB1375-3
	Exh	SB1375-3N	1 ³ / ₈ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.203 Valve Head Dia.
		SB1437-3	1 ³ / ₈ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth, LPG, W/ 1.203 Valve Head Dia.
		SB1437-3N	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.328 Valve Head Dia.
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
		Exh		00170
	Exh	00196	1.328 Head Diameter, Drilled Stem
		00210	1.328 Head Diameter, 1 Groove, W/ Rotator
		Keeper	Exh	121-1003 121-1010	1 SQ Bead Type PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
Guide	Both	140-1515	0.3427 I.D., 2.563 Length, 0.6573 O.D.

46 209 C.I., (3.4L), F6209, Gas, OHV, 12 Valve

F6209

L6 209 CID

BORE - 80.96mm/3.1874"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		Exh		SB1375-3
	Exh	SB1375-3N	1 ³ / ₈ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth, LPG, W/ 1.203 Valve Head Dia.
		SB1437-3	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.328 Valve Head Dia.
		SB1437-3N	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, LPG, W/ 1.328 Valve Head Dia.
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00170	1.203 Head Diameter, Drilled Stem

(Cont'd) **CONTINENTAL / HEAVY DUTY**

209 C.I., (3.4L), F6209, Gas, OHV, 12 Valve
L6 209 CID

F6209 **46**
BORE - 80.96mm/3.1874"^{***} (cont.)

PART	PART NO.	NOTES
Valve	Exh 00196 00210	1.328 Head Diameter, Drilled Stem 1.328 Head Diameter, 1 Groove, W/ Rotator
Keeper	Exh 121-1003 121-1010	1 SQ Bead Type PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020" ^{***} ; Pin Diameter 0.130" ^{***}
Guide	Both 140-1515	0.3427 I.D., 2.563 Length, 0.6573 O.D.

209 C.I., (3.4L), PF209, Gas, OHV, 12 Valve
L6 209 CID

PF209 **47**
BORE - 80.96mm/3.1874"^{***}

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh SB1375-3 SB1375-3N SB1437-3 SB1437-3N	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.203 Valve Head Dia. 1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, LPG, W/ 1.203 Valve Head Dia. 1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.328 Valve Head Dia. 1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, LPG, W/ 1.328 Valve Head Dia.
Valve	Int 00810 Exh 00170 00196 00210	1.516 Head Diameter, Drilled Stem 1.203 Head Diameter, Drilled Stem 1.328 Head Diameter, Drilled Stem 1.328 Head Diameter, 1 Groove, W/ Rotator
Keeper	Exh 121-1003 121-1010	1 SQ Bead Type PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020" ^{***} ; Pin Diameter 0.130" ^{***}
Guide	Both 140-1515	0.3427 I.D., 2.563 Length, 0.6573 O.D.

223 C.I., (3.7L), E223, Gas, OHV, 8 Valve
L4 223 CID

E223 **48**
BORE - 96.8mm/3.811"^{***}

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1687-1	1 $\frac{11}{16}$ O.D., 1 $\frac{13}{32}$ I.D., $\frac{1}{4}$ Depth, +10 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh SB1437-3	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

223 C.I., (3.7L), E223, LPG, OHV, 8 Valve
L4 223 CID

E223LP **49**
BORE - 96.8mm/3.811"^{***}

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1687-1	1 $\frac{11}{16}$ O.D., 1 $\frac{13}{32}$ I.D., $\frac{1}{4}$ Depth, +10 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh SB1437-3	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

226 C.I., (3.7L), F226, Gas, OHV, 12 Valve
L6 226 CID

F226 **50**
BORE - 84.14mm/3.3125"^{***}

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh SB1437-3 SB1437-3N	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, LPG, W/ 1.328 Valve Head Dia.
Valve	Int 00810 Exh 00196 00210	1.516 Head Diameter, Drilled Stem 1.328 Head Diameter, Drilled Stem 1.328 Head Diameter, 1 Groove, W/ Rotator

CONTINENTAL / HEAVY DUTY (Cont'd)

50 226 C.I., (3.7L), F226, Gas, OHV, 12 Valve F226
 (cont.) L6 226 CID BORE - 84.14mm/3.3125"

PART		PART NO.	NOTES
Keeper	Exh	121-1003	1 SQ Bead Type
Guide	Both	140-1620	0.3425 I.D., 2.313 Length, 0.6573 O.D.

51 226 C.I., (3.7L), F6226, Gas, OHV, 12 Valve F6226
 L6 226 CID BORE - 84.14mm/3.3125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		SB1437-3N	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, LPG, W/ 1.328 Valve Head Dia.
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00196	1.328 Head Diameter, Drilled Stem
		00210	1.328 Head Diameter, 1 Groove, W/ Rotator
Keeper	Exh	121-1003	1 SQ Bead Type
Guide	Both	140-1620	0.3425 I.D., 2.313 Length, 0.6573 O.D.

52 226 C.I., (3.7L), PF226, Gas, OHV, 12 Valve PF226
 L6 226 CID BORE - 84.14mm/3.3125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		SB1437-3N	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, LPG, W/ 1.328 Valve Head Dia.
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00196	1.328 Head Diameter, Drilled Stem
		00210	1.328 Head Diameter, 1 Groove, W/ Rotator
Keeper	Exh	121-1003	1 SQ Bead Type
Guide	Both	140-1620	0.3425 I.D., 2.313 Length, 0.6573 O.D.

53 226 C.I., (3.7L), F227, Gas, OHV, 12 Valve F227
 L6 226 CID BORE - 84.14mm/3.3125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1348E-1N	1.348 O.D., 1.087 I.D., 0.2000 Depth, +10 O/S Available
Valve	Int	01148	1.516 Head Diameter, All
	Exh	01147	1.203 Head Diameter, Except LPG
		01693S	1.203 Head Diameter, Stellite Face, LPG
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Both	140-1620	0.3425 I.D., 2.313 Length, 0.6573 O.D.
Spring	Both	160-1401	2.063 Length

54 242 C.I., (4.0L), E242, Gas, OHV, 8 Valve E242
 L4 242 CID BORE - 98.4mm/3.874"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-1	1 ¹¹ / ₁₆ O.D., 1 ¹³ / ₃₂ I.D., ¹ / ₄ Depth, +10 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh	SB1437-3	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

(Cont'd) **CONTINENTAL / HEAVY DUTY**

242 C.I., (4.0L), E242, LPG, OHV, 8 Valve **E242LP 55**
L4 242 CID **BORE - 98.4mm/3.874"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-1	1 ¹¹ / ₁₆ O.D., 1 ¹³ / ₃₂ I.D., 1/4 Depth, +10 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh	SB1437-3N		1^{7}/_{16} O.D., 1^{3}/_{16} I.D., 7/32 Depth

244 C.I., (4.0L), F245, Gas, OHV, 12 Valve **F245 56**
L6 244 CID **BORE - 87.3mm/3.437"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1348E-1N		1.348 O.D., 1.087 I.D., 0.2000 Depth, +10 O/S Available
Valve	Int	01148	1.516 Head Diameter, All
	Exh	01147	1.203 Head Diameter, Except LPG
		01693S	1.203 Head Diameter, Stellite Face, LPG
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Both	140-1962	0.3433 I.D., 2.375 Length, 0.6570 O.D.
Spring	Both	160-1401	2.063 Length

260 C.I., (4.3L), H260, Gas, OHV, 8 Valve **H260 57**
L4 260 CID **BORE - 98.4mm/3.874"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-3	

260 C.I., (4.3L), HD260, Diesel, OHV, 8 Valve **HD260 58**
L4 260 CID **BORE - 98.4mm/3.874"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-3	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., 1/4 Depth, Also Available Non-Magnetic (N) Material
	Exh	SB1562-6N		1^{9}/_{16} O.D., 1^{1}/_{4} I.D., 7/32 Depth

271 C.I., (4.4L), M271, Gas, OHV, 12 Valve **M271 59**
L6 271 CID **BORE - 92.075mm/3.625"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-3	2.000 O.D., 1 ⁵ / ₈ I.D., 19/64 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1687-7		1^{11}/_{16} O.D., 1^{3}/_{8} I.D., 1/4 Depth, +5 O/S Available

277 C.I., (4.5L), H277, Gas, OHV, 8 Valve **H277 60**
L4 277 CID **BORE - 101.5mm/4.00"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-3	

277 C.I., (4.5L), HD277, Diesel, OHV, 8 Valve **HD277 61**
L4 277 CID **BORE - 101.5mm/4.00"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-3	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., 1/4 Depth, Also Available Non-Magnetic (N) Material
	Exh	SB1562-6N		1^{9}/_{16} O.D., 1^{1}/_{4} I.D., 7/32 Depth

290 C.I., (4.7L), M290, Gas, OHV, 12 Valve **M290 62**
L6 290 CID **BORE - 95mm/3.740"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-3	2.000 O.D., 1 ⁵ / ₈ I.D., 19/64 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1687-7		1^{11}/_{16} O.D., 1^{3}/_{8} I.D., 1/4 Depth, +5 O/S Available

CONTINENTAL / HEAVY DUTY (Cont'd)

63 330 C.I., (5.4L), M330, Gas, OHV, 12 Valve

M330

L6 330 CID

BORE - 101.5mm/4.00"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB2000-3	2.000 O.D., 1 ⁵ / ₈ I.D., 19/64 Depth, Also Available In Non-Magnetic (N) Material
	Exh SB1687-7	1 ¹¹ / ₁₆ O.D., 1 ¹ / ₈ I.D., 1/4 Depth, +5 O/S Available

CUMMINS / HEAVY DUTY

Engine	Models	Line No.
4 Cylinder		
201 C.I., (3.3L), QSB3.3, Diesel, OHV, 8 Valve, ""TURBO""	Industrial	1
239 C.I., (3.9L), 4B & 4BT, Diesel, OHV, 8 Valve, ""N/A & TURBO""		2
275 C.I., (4.5L), B4.5, Diesel, OHV, 8 Valve, ""TURBO""		3
275 C.I., (4.5L), QSB4.5, Diesel, OHV, 16 Valve, ""TURBO""		4
309 C.I., (5.1L), C90, Diesel, OHV, 8 Valve		5
309 C.I., (5.1L), C105, Diesel, OHV, 8 Valve		6
309 C.I., (5.1L), C140, Diesel, OHV, 8 Valve		7
438 C.I., (7.2L), HB-4, Diesel, OHV, 8 Valve		17
6 Cylinder		
352 C.I., (5.8L), V352, Diesel, OHV, 12 Valve		8
352 C.I., (5.8L), V6-140, Diesel, OHV, 12 Valve		9
359 C.I., (5.9L), 6B & 6BT, Diesel, OHV, 12 Valve, ""N/A & TURBO""		10
359 C.I., (5.9L), ISB, Diesel, OHV, 24 Valve, ""TURBO""		11
359 C.I., (5.9L), QSB, Diesel, OHV, 24 Valve, ""TURBO""	Industrial	12
378 C.I., (6.2L), V378, Diesel, OHV, 12 Valve		13
378 C.I., (6.2L), V6-155, Diesel, OHV, 12 Valve		14
401 C.I., (6.6L), J Series, Diesel, OHV, 12 Valve		15
408 C.I., (6.7L), ISB, Diesel, OHV, 24 Valve, ""TURBO""		16
464 C.I., (7.6L), C160, Diesel, OHV, 12 Valve		18
464 C.I., (7.6L), C175, Diesel, OHV, 12 Valve		19
464 C.I., (7.6L), C180, Diesel, OHV, 12 Valve		20
464 C.I., (7.6L), C190B, Diesel, OHV, 12 Valve		21
464 C.I., (7.6L), CS464, Diesel, OHV, 12 Valve		22
464 C.I., (7.6L), CT464, Diesel, OHV, 12 Valve		23
505 C.I., (8.3L), 6C Series, Diesel, OHV, 12 Valve		28
505 C.I., (8.3L), 6CT Series, Diesel, OHV, 12 Valve, ""TURBO""		29
505 C.I., (8.3L), ISC/QSC Series, Diesel, OHV, 24 Valve, ""TURBO""		30
543 C.I., (8.9L), ISL/QSL9 Series, Diesel, OHV, 24 Valve, ""TURBO""		31
588 C.I., (9.6L), V588/VT588, Diesel, OHV, 24 Valve, ""N/A & TURBO""		34
588 C.I., (9.6L), V6-200, Diesel, OHV, 24 Valve		35
611 C.I., (10.0L), L-10, Diesel, OHV, 24 Valve, ""TURBO""		36
671 C.I., (11.0L), M11, Diesel, OHV, 24 Valve, ""TURBO""		37

(Cont'd) **CUMMINS / HEAVY DUTY**

Engine	Models	Line No.
6 Cylinder		
659 C.I., (11.0L), ISM, Diesel, OHV, 24 Valve, ""TURBO""		38
672 C.I., (11.0L), HB-6, Diesel, OHV, 12 Valve		39
672 C.I., (11.0L), NH180, Diesel, OHV, 24 Valve		40
672 C.I., (11.0L), NH195, Diesel, OHV, 24 valve		41
726 C.I., (11.9L), ISX, Diesel, OHV, 24 Valve, ""TURBO""		42
726 C.I., (11.9L), QSX11.9, Diesel, OHV, 24 Valve, ""TURBO""		43
726 C.I., (11.9L), ISX11.9/12, Diesel, SOHC, 24 Valve, ""TURBO""		44
743 C.I., (12.2L), N743/NH743, Diesel, OHV, 24 Valve, ""TURBO""		45
743 C.I., (12.2L), NH Series, Diesel, OHV, 24 Valve, ""TURBO""		46
743 C.I., (12.2L), NR & NT Series, Diesel, OHV, 24 Valve, ""TURBO""		47
791 C.I., (12.9L), ISZ13, QSZ13, Diesel, SOHC, 24 Valve, ""TURBO""		49
855 C.I., (14.0L), G/GTA 855, Gas, OHV, 24 Valve, ""Natural Gas""		50
855 C.I., (14.0L), N-14, Diesel, OHV, 24 Valve, ""TURBO""		51
855 C.I., (14.0L), NH/NT Series, Diesel, OHV, 24 Valve, ""TURBO""		52
912 C.I., (14.9L) ISX15, QSX15, Diesel, SOHC, 24 Valve, ""TURBO""		54
912 C.I., (14.9L), X15, Diesel, SOHC, 24 Valve, ""TURBO""		55
915 C.I., (15.0L), ISX, QSX, Diesel, DOHC, 24 Valve, ""Signature 600 Series TURBO""		56
1159 C.I., (19.0L), K Series, Diesel, OHV, 24 Valve, ""TURBO""		57
1159 C.I., (19.0L), KTA19G/GC, Gas, OHV, 24 Valve, ""Natural Gas""		58
1404 C.I., (23.0L), QSK23, Diesel, OHV, 24 Valve, ""TURBO""		59
8 Cylinder		
470 C.I., (7.7L), V470, Diesel, OHV, 16 valve		24
470 C.I., (7.7L), V8-185, Diesel, OHV, 16 Valve		25
504 C.I., (8.3L), V504, Diesel, OHV, 32 Valve		26
504 C.I., (8.3L), V8-210, Diesel, OHV, 32 Valve		27
555 C.I., (9.1L), V555/VT225/VT555, Diesel, OHV, 32 Valve, ""N/A & TURBO""		32
555 C.I., (9.1L), V8-225, Diesel, OHV, 32 Valve		33
785 C.I., (12.9L), V785/VT785/V8-265, Diesel, OHV, 32 Valve, ""N/A & TURBO""		48
903 C.I., (14.8L), V903/VT903/V903M, Diesel, OHV, 32 Valve, ""N/A & TURBO""		53
12 Cylinder		
1486 C.I., (24.4L), NVH450, V1486, VT1486, VT600, Diesel, OHV, 48 Valve, ""N/A & TURBO""		60

CUMMINS / HEAVY DUTY (Cont'd)

Engine	Models	Line No.
12 Cylinder		
1710 C.I., (28.0L), VT12/1710/V28 Series, Diesel, OHV, 48 Valve, ""N/A & TURBO""		
		61

1 201 C.I., (3.3L), QSB3.3, Diesel, OHV, 8 Valve, ""TURBO"" **QSB3.3**
L4 201 CID **BORE - 95.0mm/3.74""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1775E-3	1.775 O.D.,1.450T I.D.,0.3330 Depth,OEM # C6207111341, 4982847
	Exh	SB1538E-2	1.538 O.D.,1.240T I.D.,0.2550 Depth,OEM # C6204111440, 4982908
Valve	Int	13383	1.728 Head Diameter,OEM # 4982907, C6207-41-4110
	Exh	13384	1.492 Head Diameter,OEM # C6204414210, 4982895
		13388S	1.492 Head Diameter,Stellite Face,OEM # C6209414210, 4982909
Keeper	Both	121-1134	1 SQ Bead Type,OEM # C6204414520, 4982898
Stem Seal	Both	122-1472	Positive Type,Viton Material,Metal Clad Style,OEM # C6204414541, 4982899
Guide	Both	140-3181	0.3150 I.D.,2.040 Length,0.4740 O.D.,OEM # C6204191310, 4982846

2 239 C.I., (3.9L), 4B & 4BT, Diesel, OHV, 8 Valve, ""N/A & TURBO"" **4BT**
L4 239 CID **BORE - 102mm/4.015""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1853E-1	1.853 O.D.,1.498T I.D.,0.2730 Depth
		SB1875-8	1 ⁷ / ₈ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Head W/O OEM Seat
	Exh	SB1722E-1	1.722 O.D.,1.357T I.D.,0.2650 Depth
		SB1750-7	1 ³ / ₄ O.D.,1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Head W/O OEM Seat
Valve	Int	01665	1.772 Head Diameter,W/ 30 Degree Seat
	Exh	01664	1.654 Head Diameter,W/ 45 Degree Seat
		01801	1.654 Head Diameter,Inconel,W/ 45 Degree Seat, Marine Applications, OEM # 3925175
		01862	1.654 Head Diameter,W/ 20 Degree Seat, Natural Gas, OEM # 3922714
Keeper	Both	121-1079	1 RD Bead Type
Stem Seal	Int	122-1269	Positive Type,Viton Material, Ring & Band Style,Orange Color Seal,OEM # 3921640; NOTE: Intake & Exhaust For Marine
	Exh	122-1053	Positive Type,Viton Material, Ring & Band Style,Black Color Seal,OEM # 3901097; NOTE: Exept Marine
	Both	122-1365	Positive Type,Viton Material,Top Hat Style,OEM # 3957912
Guide	Int	140-8177	0.3162 I.D.,2.382 Length,0.5528 O.D.
		140-8177SA	0.3162 I.D.,2.382 Length,0.5528 O.D., ""Special Alloy"", For Ultra Low Sulfur Diesel
	Exh	140-8178	0.3160 I.D.,2.052 Length,0.5528 O.D.
140-8178SA		0.3160 I.D.,2.052 Length,0.5528 O.D., ""Special Alloy"", For Ultra Low Sulfur Diesel	
	Both	140-8277	0.3162 I.D.,2.500 Length,0.4393 O.D.,W/O Seal Boss, Universal Length
Spring	Exh	160-1650	2.875 Length,Barrel Shaped,OEM # 3916691; Note: W/ Exhaust Brake, 60lbs Additional Seat Pressure.
	Both	160-1348	2.235 Length,OEM # 3900276
		160-1379	2.385 Length,OEM # 3926700, NOTE: Both Except , Intake ONLY For Marine Applications
		160-1459	2.194 Length,OEM # 3925667, NOTE: Both Natural Gas, Exhaust ONLY Marine Applications W/ Rotator
		160-1527	2.518 Length,OEM # 3932453; NOTE: Industrial & Non-Turbo Applications ONLY; Replaces Early Castings Equipped With OEM # 3926700; MUST Replace In Sets
Lifter	Both	VL156	Mechanical Type,OEM # 3931623
Push Rod	Both	190-1530	10.910 Length

(Cont'd) **CUMMINS / HEAVY DUTY**

275 C.I., (4.5L), B4.5, Diesel, OHV, 8 Valve, ""TURBO""

B4.5 3

L4 275 CID

BORE - 104.00mm/4.0945""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1853E-1	1.853 O.D.,1.498T I.D.,0.2730 Depth,OEM # 3925177
	Exh	SB1722E-1	1.722 O.D.,1.357T I.D.,0.2650 Depth,OEM # 3925176
Valve	Int	01665	1.772 Head Diameter,OEM # 3802355
	Exh	01664	1.654 Head Diameter,OEM # 3802356
Keeper	Both	121-1079	1 RD Bead Type,OEM # 3900250
Stem Seal	Both	122-1269	Positive Type,Viton Material,Ring & Band Style,Orange Color Seal,OEM # 3921640
Guide	Int	140-8177	0.3162 I.D.,2.382 Length,0.5528 O.D.,OEM # 3904408
		140-8177SA	0.3162 I.D.,2.382 Length,0.5528 O.D.,""Special Alloy"", For Ultra Low Sulfur Diesel
	Exh	140-8178	0.3160 I.D.,2.052 Length,0.5528 O.D.,OEM # 3904409
		140-8178SA	0.3160 I.D.,2.052 Length,0.5528 O.D.,""Special Alloy"", For Ultra Low Sulfur Diesel
Spring	Both	160-1527	2.518 Length,OEM # 3932453; NOTE: Replaces Early Castings Equipped With OEM # 3926700; MUST Replace In Sets
Lifter	Both	VL565	Mechanical Type,OEM # 3947759 , 4891226

275 C.I., (4.5L), QSB4.5, Diesel, OHV, 16 Valve, ""TURBO""

QSB4.5 4

L4 275 CID

BORE - 107.00mm/4.213""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1375E-1	1.375 O.D.,1.100T I.D.,0.2270 Depth,OEM Replacement, +10 O/S Available,OEM # 3943449
	Exh	SB1375E-2N	1.375 O.D.,1.100T I.D.,0.2270 Depth,OEM Replacement, +5, +10 & +20 O/S Available,OEM # 3942299, 3943450
Valve	Int	02014	1.299 Head Diameter,OEM # 3802924, 3940735; W/ 30 Degree Seat
	Exh	13006	1.299 Head Diameter,45 Degree Seat, OEM # 3979602, 4955212, W/ Letter N in Head
		13161	1.299 Head Diameter,Inconel,OEM # 3968183, 4089672; W/ Letter ""O"" In Head
Keeper	Both	121-1097	1 RD Bead Type,OEM # 3940123
Stem Seal	Int	122-1370	Positive Type,Viton Material,Top Hat Style,OEM # 3955393, Yellow
	Both	122-1371	Positive Type,Viton Material,Top Hat Style,OEM # 3955394, Green
		122-1477	Positive Type,Viton Material,Top Hat Style,OEM # 4991571, Black; NOTE: No Ring
Guide	Int	140-3033	0.2776 I.D.,1.937 Length,0.5015 O.D.
		140-3080	0.2775 I.D.,1.937 Length,0.4395 O.D.,NOTE: Optional O.D.; Guide W/O Seal Boss. Does Not Require Special Tooling.
	Exh	140-3034	0.2780 I.D.,2.020 Length,0.5015 O.D.
		140-3081	0.2775 I.D.,2.020 Length,0.4395 O.D.,NOTE: Optional O.D.; Guide W/O Seal Boss. Does Not Require Special Tooling.
Spring	Both	160-1683	1.812 Length,W/ Pink Stripe,OEM # 5303406, 3943161, 4936080
Rotator		161-1081	
Lifter	Both	VL565	Mechanical Type,OEM # 3947759 , 4891226
Push Rod	Both	190-1554	11.435 Length,OEM # 3941253

309 C.I., (5.1L), C90, Diesel, OHV, 8 Valve

C90 5

L4 309 CID

BORE - 112.7mm/4.437""

PART		PART NO.	NOTES
Guide	Both	140-1823	0.3429 I.D.,2.810 Length,0.5633 O.D.

CUMMINS / HEAVY DUTY (Cont'd)

6 309 C.I., (5.1L), C105, Diesel, OHV, 8 Valve C105
 L4 309 CID BORE - 112.7mm/4.437"

PART	PART NO.	NOTES
Guide	Both 140-1823	0.3429 I.D.,2.810 Length,0.5633 O.D.

7 309 C.I., (5.1L), C140, Diesel, OHV, 8 Valve C140
 L4 309 CID BORE - 112.7mm/4.437"

PART	PART NO.	NOTES
Guide	Both 140-1823	0.3429 I.D.,2.810 Length,0.5633 O.D.

8 352 C.I., (5.8L), V352, Diesel, OHV, 12 Valve V352
 V6 352 CID BORE - 117.475mm/4.625"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1691E-1	1.691 O.D.,1 ⁷ / ₁₆ I.D.,0.1810 Depth,+10 O/S Available,OEM # 195000
	Exh SB1691E-2	1.693 O.D.,1 ⁷ / ₁₆ I.D.,0.2000 Depth,+10 O/S Available,OEM # 154390
Valve	Both 01420S	1.605 Head Diameter,Stellite Face,OEM # 3275355, Late Style W/ Round Groove, Use W/ 121-1027 Keeper
Keeper	Both 121-1007	1 SQ Bead Type,Use W/ Early Style Square Groove Valve
	121-1027	1 RD Bead Type,Use With 01420S
Guide	Both 140-8420	0.3812 I.D.,2.500 Length,0.6268 O.D.,W/ Drilled Relief Hole
Injector Tubes and Components	240-1008	Copper Material,Injector Tube,OEM # 169630
	240-1009R	Viton Material,O-Ring, Black,OEM # 196641, 3007759

9 352 C.I., (5.8L), V6-140, Diesel, OHV, 12 Valve V6-140
 V6 352 CID BORE - 117.475mm/4.625"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1691E-1	1.691 O.D.,1 ⁷ / ₁₆ I.D.,0.1810 Depth,+10 O/S Available,OEM # 195000
	Exh SB1691E-2	1.693 O.D.,1 ⁷ / ₁₆ I.D.,0.2000 Depth,+10 O/S Available,OEM # 154390
Valve	Both 01420S	1.605 Head Diameter,Stellite Face,OEM # 3275355, Late Style W/ Round Groove, Use W/ 121-1027 Keeper
Keeper	Both 121-1007	1 SQ Bead Type,Use W/ Early Style Square Groove Valve
	121-1027	1 RD Bead Type,Use With 01420S
Guide	Both 140-8420	0.3812 I.D.,2.500 Length,0.6268 O.D.,W/ Drilled Relief Hole
Injector Tubes and Components	240-1008	Copper Material,Injector Tube,OEM # 169630
	240-1009R	Viton Material,O-Ring, Black,OEM # 196641, 3007759

10 359 C.I., (5.9L), 6B & 6BT, Diesel, OHV, 12 Valve, ""N/A & TURBO"" 6BT
 L6 359 CID BORE - 102mm/4.015"

PART	PART NO.	NOTES	
Valve Seat Insert	Int SB1853E-1	1.853 O.D.,1.498T I.D.,0.2730 Depth,Also Fits High Output Marine Application	
	SB1853E-2	1.853 O.D.,1.495T I.D.,0.2710 Depth,20 Degree, Natural Gas, OEM # 3020211, 3922715	
	Exh	SB1875-8	1 ⁷ / ₈ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Head W/O OEM Seat
		SB1722E-1	1.722 O.D.,1.357T I.D.,0.2650 Depth,Incl. High Output Marine Application
		SB1722E-3	1.722 O.D.,1.382T I.D.,0.2650 Depth,20 Degree, Natural Gas, OEM # 3395612, 3922716
SB1750-7	1 ³ / ₄ O.D.,1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Head W/O OEM Seat		
SB1750-8N	1 ³ / ₄ O.D.,1 ⁹ / ₁₆ I.D., ¹ / ₄ Depth,Universal Size Seat For Head W/O OEM Seat; NOTE: Alternative Star Series Material, Seat May Need To Be Machined In Order To Achieve Correct Depth		
Valve	Int 01665	1.772 Head Diameter,5.084 Overall Length, W/ 30 Degree Seat, OEM # 3901117, 3920867	

(Cont'd) **CUMMINS / HEAVY DUTY**

359 C.I., (5.9L), 6B & 6BT, Diesel, OHV, 12 Valve, ""N/A & TURBO""

6BT 10

L6 359 CID

BORE - 102mm/4.015"" (cont.)

PART		PART NO.	NOTES
Valve	Int	02257	1.772 Head Diameter,5.085 Overall Length, W/ 20 Degree Seat, Natural Gas , OEM # 3802658, 3922713
	Exh	01664	1.654 Head Diameter,5.081 Overall Length, W/ 45 Degree Seat, OEM # 3901607, 3920868
		01801	1.654 Head Diameter,Inconel,5.135 Overall Length, W/ 45 Degree Seat, Marine Applications, OEM # 3925175
		01862	1.654 Head Diameter,5.081 Overall Length, W/ 20 Degree Seat, Natural Gas, OEM # 3922714
Keeper	Both	121-1079	1 RD Bead Type
Stem Seal	Int	122-1269	Positive Type,Viton Material,Ring & Band Style,Orange Color Seal,OEM # 3921640; NOTE: Intake & Exhaust Marine
	Exh	122-1053	Positive Type,Viton Material,Ring & Band Style,Black Color Seal,OEM # 3901097; NOTE: Except Marine
	Both	122-1365	Positive Type,Viton Material,Top Hat Style,OEM # 3957912
Guide	Int	140-8177	0.3162 I.D.,2.382 Length,0.5528 O.D.
		140-8177SA	0.3162 I.D.,2.382 Length,0.5528 O.D.,""Special Alloy"", For Ultra Low Sulfur Diesel
	Exh	140-8178	0.3160 I.D.,2.052 Length,0.5528 O.D.
140-8178SA		0.3160 I.D.,2.052 Length,0.5528 O.D.,""Special Alloy"", For Ultra Low Sulfur Diesel	
	Both	140-8277	0.3162 I.D.,2.500 Length,0.4393 O.D.,W/O Seal Boss, Universal Length
Spring	Exh	160-1650	2.875 Length,Barrel Shaped,OEM # 3916691; Note: W/ Exhaust Brake, 60lbs Additional Seat Pressure.
	Both	160-1348	2.235 Length,OEM # 3900276
		160-1379	2.385 Length,OEM # 3926700, NOTE: Both Except, Intake ONLY For Marine Applications
		160-1459	2.194 Length,OEM # 3925667, NOTE: Both Natural Gas; Exhaust ONLY Marine Applications W/ Rotator
		160-1527	2.518 Length,OEM # 3932453; NOTE: Industrial & Non-Turbo Applications ONLY; Replaces Early Castings Equipped With OEM # 3926700; MUST Replace In Sets
Rotator	Exh	161-1073	OEM # 3925666, 3957914, Natural Gas & Marine. Use W/ 160-1459
Lifter	Both	VL156	Mechanical Type
Push Rod	Both	190-1530	10.910 Length
Head Saver Shim		230-2174	New Hgt. - 3.747 - 3.749; Min. Hgt. - 3.700

359 C.I., (5.9L), ISB, Diesel, OHV, 24 Valve, ""TURBO""

6B5.9ISB 11

L6 359 CID

BORE - 102mm/4.015""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1375E-1	1.375 O.D.,1.100T I.D.,0.2270 Depth,OEM Replacement, +10 O/S Available,OEM # 3943449
	Exh	SB1375E-2N	1.375 O.D.,1.100T I.D.,0.2270 Depth,OEM Replacement, +5, +10 & +20 O/S Available,OEM # 3942299, 3943450
Valve	Int	02014	1.299 Head Diameter,OEM # 3802924, 3940735; W/ 30 Degree Seat
	Exh	02015	1.299 Head Diameter,OEM # 3802967, 3940734; W/ 45 Degree Seat, NOTE: DO NOT USE IN H.O.
		13006	1.299 Head Diameter,OEM # 3979602, W/ Letter ""N"" in Head, W/ 45 Degree Seat
		13161	1.299 Head Diameter,Inconel,OEM # 3968183, 4089672; W/ Letter ""O"" In Head, W/ 45 Degree Seat
Keeper	Both	121-1097	1 RD Bead Type,OEM # 3940123
Stem Seal	Int	122-1335	Positive Type,Viton Material,Metal Clad Style,OEM # 3942989, Before Eng. S/N 46239409, Yellow

CUMMINS / HEAVY DUTY (Cont'd)

11 359 C.I., (5.9L), ISB, Diesel, OHV, 24 Valve, ""TURBO"" **6B5.9ISB**
 (cont.) L6 359 CID **BORE - 102mm/4.015""**

PART		PART NO.	NOTES
Stem Seal	Int	122-1370	Positive Type,Viton Material,Top Hat Style,OEM # 3955393, After Eng. S/N 46239409, Yellow
	Exh	122-1334	Positive Type,Viton Material,Metal Clad Style,OEM # 3945438, Before Eng. S/N 46239409, Green
		122-1371	Positive Type,Viton Material,Top Hat Style,OEM # 3955394, After Eng. S/N 46239409, Green
	Both	122-1477	Positive Type,Viton Material,Top Hat Style,OEM # 4991571, Black; NOTE: No Ring
Guide	Int	140-3021	0.2776 I.D., 1.937 Length,0.5015 O.D.,Replacement Guide for OEM Integral Guide, Use on Cylinder Head with Single Flange on guide, Seal Boss Length 0.360
		140-3033	0.2776 I.D., 1.937 Length,0.5015 O.D.,Use for cylinder head with Dual Flange on guide, Seal Boss Length 0.334
		140-3080	0.2775 I.D., 1.937 Length,0.4395 O.D.,NOTE: Optional O.D.; Guide W/O Seal Boss. Does Not Require Special Tooling.
	Exh	140-3022	0.2776 I.D.,2.020 Length,0.5015 O.D.,Replacement Guide for OEM Integral Guide, Use on Cylinder Head with Single Flange on guide, Seal Boss Length 0.360
		140-3034	0.2780 I.D.,2.020 Length,0.5015 O.D.,Use for cylinder head with Dual Flange on guide, Seal Boss Length 0.334
		140-3081	0.2775 I.D.,2.020 Length,0.4395 O.D.,NOTE: Optional O.D.; Guide W/O Seal Boss. Does Not Require Special Tooling.
Spring	Both	160-1683	1.812 Length,W/ Pink Stripe,OEM # 5303406, 3943161, 4936080
		360-1020	2.035 Length,NOTE: Optional Performance Valve Spring, See Performance Catalog For Details
Lifter	Both	VL554	Mechanical Type,OEM # 3942565; NOTE: Early W/ 1.300 Cam Face Diameter
		VL565	Mechanical Type,OEM # 3947759 , 4891226; NOTE: Late W/ 1.496 Cam Face Diameter
Push Rod	Both	190-1554	11.435 Length,OEM # 3941253
Head Saver Shim		230-2175	New Hgt. - 4.136 - 4.137; Min Hgt. - 4.124

12 359 C.I., (5.9L), QSB, Diesel, OHV, 24 Valve, ""TURBO"" **QSB5.9-24V**
 L6 359 CID **BORE - 102mm/4.015""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1375E-1	1.375 O.D., 1.100T I.D.,0.2270 Depth,OEM Replacement, +10 O/S Available,OEM # 3943449
	Exh	SB1375E-2N	1.375 O.D., 1.100T I.D.,0.2270 Depth,OEM Replacement, +5, +10 & +20 O/S Available,OEM # 3942299, 3943450
Valve	Int	02014	1.299 Head Diameter,OEM # 3802924, W/ 30 Degree Seat
	Exh	13006	1.299 Head Diameter,OEM # 3979602, W/ Letter N in Head, W/ 45 Degree Seat
		13161	1.299 Head Diameter,Inconel,OEM # 3968183, 4089672; W/ Letter ""O"" In Head, W/ 45 Degree Seat
Keeper	Both	121-1097	1 RD Bead Type,OEM # 3940123
Stem Seal	Int	122-1335	Positive Type,Viton Material,Metal Clad Style,OEM # 3942989, Yellow
		122-1370	Positive Type,Viton Material,Top Hat Style,OEM # 3955393, Yellow
	Exh	122-1334	Positive Type,Viton Material,Metal Clad Style,OEM # 3945438, Green
		122-1371	Positive Type,Viton Material,Top Hat Style,OEM # 3955394, Green
Both	122-1477	Positive Type,Viton Material,Top Hat Style,OEM # 4991571, Black; NOTE: No Ring	
Guide	Int	140-3021	0.2776 I.D., 1.937 Length,0.5015 O.D.,Replacement Guide for OEM Integral Guide, Use on Cylinder Head with Single Flange on guide, Seal Boss Length 0.360

(Cont'd) **CUMMINS / HEAVY DUTY**

359 C.I., (5.9L), QSB, Diesel, OHV, 24 Valve, ""TURBO""
L6 359 CID

QSB5.9-24V 12
BORE - 102mm/4.015"" (cont.)

PART		PART NO.	NOTES
Guide	Int	140-3033	0.2776 I.D.,1.937 Length,0.5015 O.D.,Use for cylinder head with Dual Flange on guide, Seal Boss Length 0.334
		140-3080	0.2775 I.D.,1.937 Length,0.4395 O.D.,NOTE: Optional O.D.; Guide W/O Seal Boss. Does Not Require Special Tooling.
	Exh	140-3022	0.2776 I.D.,2.020 Length,0.5015 O.D.,Replacement Guide for OEM Integral Guide, Use on Cylinder Head with Single Flange on guide, Seal Boss Length 0.360
		140-3034	0.2780 I.D.,2.020 Length,0.5015 O.D.,Use for cylinder head with Dual Flange on guide, Seal Boss Length 0.334
		140-3034 140-3081	0.2780 I.D.,2.020 Length,0.5015 O.D.,W/ Seal Boss 0.2775 I.D.,2.020 Length,0.4395 O.D.,NOTE: Optional O.D.; Guide W/O Seal Boss. Does Not Require Special Tooling.
Spring	Both	160-1683	1.812 Length,W/ Pink Stripe,OEM # 5303406, 3943161, 4936080
Rotator		161-1081	
Lifter	Both	VL554	Mechanical Type,OEM # 3942565; NOTE: Early W/ 1.300 Cam Face Diameter
		VL565	Mechanical Type,OEM # 3947759 , 4891226; NOTE: Late W/ 1.496 Cam Face Diameter
Push Rod	Both	190-1554	11.435 Length,OEM # 3941253

378 C.I., (6.2L), V378, Diesel, OHV, 12 Valve
V6 378 CID

V378 13
BORE - 117.475mm/4.625""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1691E-1	1.691 O.D.,1 ⁷ / ₁₆ I.D.,0.1810 Depth,+10 O/S Available,OEM # 195000
	Exh	SB1691E-2	1.693 O.D.,1 ⁷ / ₁₆ I.D.,0.2000 Depth,+10 O/S Available,OEM # 154390
Valve	Both	01420S	1.605 Head Diameter,Stellite Face,OEM # 3275355, Late Style W/ Round Groove, Use W/ 121-1027 Keeper
Keeper	Both	121-1007	1 SQ Bead Type,Use W/ Early Style Square Groove Valve
		121-1027	1 RD Bead Type,Use With 01420S
Guide	Both	140-8420	0.3812 I.D.,2.500 Length,0.6268 O.D.,W/ Drilled Relief Hole
Injector Tubes and Components		240-1008	Copper Material,Injector Tube,OEM # 169630
		240-1009R	Viton Material,O-Ring, Black,OEM # 196641, 3007759

378 C.I., (6.2L), V6-155, Diesel, OHV, 12 Valve
V6 378 CID

V6-155 14
BORE - 117.475mm/4.625""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1691E-1	1.691 O.D.,1 ⁷ / ₁₆ I.D.,0.1810 Depth,+10 O/S Available,OEM # 195000
	Exh	SB1691E-2	1.693 O.D.,1 ⁷ / ₁₆ I.D.,0.2000 Depth,+10 O/S Available,OEM # 154390
Valve	Both	01420S	1.605 Head Diameter,Stellite Face,OEM # 3275355, Late Style W/ Round Groove, Use W/ 121-1027 Keeper
Keeper	Both	121-1007	1 SQ Bead Type,Use W/ Early Style Square Groove Valve
		121-1027	1 RD Bead Type,Use With 01420S
Guide	Both	140-8420	0.3812 I.D.,2.500 Length,0.6268 O.D.,W/ Drilled Relief Hole
Injector Tubes and Components		240-1008	Copper Material,Injector Tube,OEM # 169630
		240-1009R	Viton Material,O-Ring, Black,OEM # 196641, 3007759

401 C.I., (6.6L), J Series, Diesel, OHV, 12 Valve
L6 401 CID

J 15
BORE - 104.775mm/4.125""

PART		PART NO.	NOTES
Guide	Both	140-1823	0.3429 I.D.,2.810 Length,0.5633 O.D.

CUMMINS / HEAVY DUTY (Cont'd)

16 408 C.I., (6.7L), ISB, Diesel, OHV, 24 Valve, ""TURBO""
L6 408 CID

ISB6.7-24V
BORE - 107mm/4.213""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1375E-1	1.375 O.D.,1.100T I.D.,0.2270 Depth,OEM Replacement, +10 O/S Available,OEM # 3943449
	Exh	SB1375E-2N	1.375 O.D.,1.100T I.D.,0.2270 Depth,OEM Replacement, +5, +10 & +20 O/S Available,OEM # 3942299, 3943450
Valve	Int	02014	1.299 Head Diameter,OEM # 3802924, 3940735; W/ 30 Degree Seat
	Exh	02015	1.299 Head Diameter,OEM # 3802967, 3940734; W/ 45 Degree Seat.
		13006	1.299 Head Diameter,45 Degree Seat, OEM # 3979602, 4955212, W/ Letter N in Head
		13161	1.299 Head Diameter,Inconel,OEM # 3968183, 4089672; W/ Letter ""O"" In Head
Keeper	Both	121-1097	1 RD Bead Type,OEM # 3940123
Stem Seal	Int	122-1370	Positive Type,Viton Material,Top Hat Style,OEM # 3955393, Yellow
	Exh	122-1371	Positive Type,Viton Material,Top Hat Style,OEM # 3955394, Green
	Both	122-1477	Positive Type,Viton Material,Top Hat Style,OEM # 4991571, Black; NOTE: No Ring
Guide	Int	140-3033	0.2776 I.D.,1.937 Length,0.5015 O.D.,Replacement Guide for OEM Integral Guide
		140-3080	0.2775 I.D.,1.937 Length,0.4395 O.D.,NOTE: Optional O.D.; Guide W/O Seal Boss. Does Not Require Special Tooling.
	Exh	140-3034	0.2780 I.D.,2.020 Length,0.5015 O.D.,Replacement Guide for OEM Integral Guide
		140-3081	0.2775 I.D.,2.020 Length,0.4395 O.D.,NOTE: Optional O.D.; Guide W/O Seal Boss. Does Not Require Special Tooling.
Spring	Both	160-1683	1.812 Length,W/ Pink Stripe,OEM # 5303406, 3943161, 4936080
		360-1020	2.035 Length,NOTE: Optional Performance Valve Spring, See Performance Catalog For Details
Rotator		161-1081	
Lifter	Both	VL565	Mechanical Type,OEM # 3947759 , 4891226
Push Rod	Both	190-1554	11.435 Length,OEM # 3941253
Head Saver Shim		230-2176	New Hgt. - 4.140; Min. Hgt. - 4.124

17 438 C.I., (7.2L), HB-4, Diesel, OHV, 8 Valve
L4 438 CID

HB4
BORE - 123.8mm/4.874""

PART		PART NO.	NOTES
Stem Seal	Both	122-1053	Positive Type,Viton Material, Ring & Band Style,Black Color Seal

18 464 C.I., (7.6L), C160, Diesel, OHV, 12 Valve
L6 464 CID

C160
BORE - 112.7mm/4.437""

PART		PART NO.	NOTES
Guide	Both	140-1823	0.3429 I.D.,2.810 Length,0.5633 O.D.

19 464 C.I., (7.6L), C175, Diesel, OHV, 12 Valve
L6 464 CID

C175
BORE - 112.7mm/4.437""

PART		PART NO.	NOTES
Guide	Both	140-1823	0.3429 I.D.,2.810 Length,0.5633 O.D.

20 464 C.I., (7.6L), C180, Diesel, OHV, 12 Valve
L6 464 CID

C180
BORE - 112.7mm/4.437""

PART		PART NO.	NOTES
Guide	Both	140-1823	0.3429 I.D.,2.810 Length,0.5633 O.D.

(Cont'd) **CUMMINS / HEAVY DUTY**

464 C.I., (7.6L), C190B, Diesel, OHV, 12 Valve **C190B 21**
L6 464 CID BORE - 112.7mm/4.437"

PART		PART NO.	NOTES
Guide	Both	140-1823	0.3429 I.D.,2.810 Length,0.5633 O.D.

464 C.I., (7.6L), CS464, Diesel, OHV, 12 Valve **CS464 22**
L6 464 CID BORE - 112.7mm/4.437"

PART		PART NO.	NOTES
Stem Seal	Both	122-1243	Positive Type,Viton Material,Top Hat Style,OEM # 3901178, 3915707, 3919038, 3927642
Guide	Both	140-1823	0.3429 I.D.,2.810 Length,0.5633 O.D.

464 C.I., (7.6L), CT464, Diesel, OHV, 12 Valve **CT464 23**
L6 464 CID BORE - 112.7mm/4.437"

PART		PART NO.	NOTES
Guide	Both	140-1823	0.3429 I.D.,2.810 Length,0.5633 O.D.

470 C.I., (7.7L), V470, Diesel, OHV, 16 valve **V470 24**
V8 470 CID BORE - 117.475mm/4.625"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1691E-1	1.691 O.D.,17/16 I.D.,0.1810 Depth,+10 O/S Available,OEM # 195000
	Exh	SB1691E-2	1.693 O.D.,17/16 I.D.,0.2000 Depth,+10 O/S Available,OEM # 154390
Valve	Both	01420S	1.605 Head Diameter,Stellite Face,OEM # 3275355, Late Style W/ Round Groove, Use W/ 121-1027 Keeper
Keeper	Both	121-1007	1 SQ Bead Type,Use W/ Early Style Square Groove Valve
		121-1027	1 RD Bead Type,Use With 01420S
Guide	Both	140-8420	0.3812 I.D.,2.500 Length,0.6268 O.D.,W/ Drilled Relief Hole
Injector Tubes and Components		240-1008	Copper Material,Injector Tube,OEM # 169630
		240-1009R	Viton Material,O-Ring, Black,OEM # 196641, 3007759

470 C.I., (7.7L), V8-185, Diesel, OHV, 16 Valve **V8-185 25**
V8 470 CID BORE - 117.475mm/4.625"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1691E-1	1.691 O.D.,17/16 I.D.,0.1810 Depth,+10 O/S Available,OEM # 195000
	Exh	SB1691E-2	1.693 O.D.,17/16 I.D.,0.2000 Depth,+10 O/S Available,OEM # 154390
Valve	Both	01420S	1.605 Head Diameter,Stellite Face,OEM # 3275355, Late Style W/ Round Groove, Use W/ 121-1027 Keeper
Keeper	Both	121-1007	1 SQ Bead Type,Use W/ Early Style Square Groove Valve
		121-1027	1 RD Bead Type,Use With 01420S
Guide	Both	140-8420	0.3812 I.D.,2.500 Length,0.6268 O.D.,W/ Drilled Relief Hole
Injector Tubes and Components		240-1008	Copper Material,Injector Tube,OEM # 169630
		240-1009R	Viton Material,O-Ring, Black,OEM # 196641, 3007759

504 C.I., (8.3L), V504, Diesel, OHV, 32 Valve **V504 26**
V8 504 CID BORE - 117.475mm/4.625"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1691E-1	1.691 O.D.,17/16 I.D.,0.1810 Depth,+10 O/S Available,OEM # 195000
	Exh	SB1691E-2	1.693 O.D.,17/16 I.D.,0.2000 Depth,+10 O/S Available,OEM # 154390
Valve	Both	01420S	1.605 Head Diameter,Stellite Face,OEM # 3275355, Late Style W/ Round Groove, Use W/ 121-1027 Keeper
Keeper	Both	121-1007	1 SQ Bead Type,Use W/ Early Style Square Groove Valve
		121-1027	1 RD Bead Type,Use With 01420S

CUMMINS / HEAVY DUTY (Cont'd)

26 504 C.I., (8.3L), V504, Diesel, OHV, 32 Valve V504
 (cont.) V8 504 CID BORE - 117.475mm/4.625"

PART	PART NO.	NOTES
Guide	Both 140-8420	0.3812 I.D.,2.500 Length,0.6268 O.D.,W/ Drilled Relief Hole
Injector Tubes and Components	240-1008	Copper Material,Injector Tube,OEM # 169630
	240-1009R	Viton Material,O-Ring, Black,OEM # 196641, 3007759

27 504 C.I., (8.3L), V8-210, Diesel, OHV, 32 Valve V8-210
 V8 504 CID BORE - 117.475mm/4.625"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1691E-1 Exh SB1691E-2	1.691 O.D.,1 ⁷ / ₁₆ I.D.,0.1810 Depth,+10 O/S Available,OEM # 195000 1.693 O.D.,1 ⁷ / ₁₆ I.D.,0.2000 Depth,+10 O/S Available,OEM # 154390
Valve	Both 01420S	1.605 Head Diameter,Stellite Face,OEM # 3275355, Late Style W/ Round Groove, Use W/ 121-1027 Keeper
Keeper	Both 121-1007 121-1027	1 SQ Bead Type,Use W/ Early Style Square Groove Valve 1 RD Bead Type,Use With 01420S
Guide	Both 140-8420	0.3812 I.D.,2.500 Length,0.6268 O.D.,W/ Drilled Relief Hole
Injector Tubes and Components	240-1008	Copper Material,Injector Tube,OEM # 169630
	240-1009R	Viton Material,O-Ring, Black,OEM # 196641, 3007759

28 505 C.I., (8.3L), 6C Series, Diesel, OHV, 12 Valve 6C
 L6 505 CID BORE - 114.05mm/4.490"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB2126E-2 Exh SB2129E-2 SB1857E-1 SB1857E-1T SB1857E-2	2.126 O.D.,1.752T I.D.,0.3230 Depth,20 Degree, Natural Gas, OEM # 3927256 2.129 O.D.,1.752T I.D.,0.3060 Depth,OEM # 3908830, 3924582 1.857 O.D.,1.575T I.D.,0.2290 Depth,OEM # 3904716, 3924583, 3929005 1.857 O.D.,1.575T I.D.,0.2500 Depth,OEM # 3928174, 3970278; NOTE: Same As SB1857E-1 Except 0.020 Thicker 1.857 O.D.,1.573T I.D.,0.2290 Depth,20 Degree, Natural Gas, OEM # 3927257, 3933088
Valve	Int 01667 02255 02255S Exh 01666 02254 02254S	2.047 Head Diameter,OEM #'s 3902253 & 3802083 2.047 Head Diameter,5.952 Overall Length, W/ 20 Degree Seat, Natural Gas, OEM # 3802812, 3927254 2.047 Head Diameter,Stellite Face,5.952 Overall Length, W/ 20 Degree Seat; NOTE: Optional Natural Gas 1.811 Head Diameter,OEM #'s 3902254 & 3802085 1.811 Head Diameter,5.942 Overall Length, W/ 20 Degree Seat, Natural Gas, OEM # 3802813, 3927255 1.811 Head Diameter,Stellite Face,5.942 Overall Length, W/ 20 Degree Seat, NOTE: Optional Natural Gas
Keeper	Both 121-1073	1 RD Bead Type,OEM # 3901177
Stem Seal	Both 122-1243 122-1391	Positive Type,Viton Material,Top Hat Style,OEM # 3901178, 3915707, 3919038, 3927642 Positive Type,Viton Material,Top Hat Style,OEM # 3930057, Natural Gas
Guide	Both 140-3068 140-3068SA 140-8122 140-8122SA	0.3761 I.D.,2.835 Length,0.6297 O.D.,OEM # 3925863, Natural Gas 0.3761 I.D.,2.835 Length,0.6297 O.D., ""Special Alloy"", For Ultra Low Sulfur Diesel & Natural Gas 0.3761 I.D.,2.835 Length,0.6297 O.D.,OEM # 3923564 0.3761 I.D.,2.835 Length,0.6297 O.D., ""Special Alloy"", For Ultra Low Sulfur Diesel & Natural Gas
Spring	Exh 160-1669 Both 160-1592	3.070 Length,W/ Damper,OEM # 3916588; NOTE: With Pink Stripes, W/ 70 lbs Additional Seat Pressure 2.608 Length,OEM # 3906412, 3991085, 5292625

(Cont'd) **CUMMINS / HEAVY DUTY**

505 C.I., (8.3L), 6C Series, Diesel, OHV, 12 Valve

6C 28

L6 505 CID

BORE - 114.05mm/4.490"

PART		PART NO.	NOTES
Spring	Both	160-1629	2.445 Length,OEM # 3925272; NOTE: Natural Gas & Some Marine Applications, Use With 161-1075 Rotator
Rotator	Both	161-1075	OEM # 3925273; NOTE: Natural Gas & Some Marine Applications, Use With 160-1629 Valve Spring

505 C.I., (8.3L), 6CT Series, Diesel, OHV, 12 Valve, ""TURBO""

6CT 29

L6 505 CID

BORE - 114.05mm/4.490"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2126E-2	2.126 O.D.,1.752T I.D.,0.3230 Depth,20 Degree, Natural Gas, OEM # 3927256
		SB2129E-2	2.129 O.D.,1.752T I.D.,0.3060 Depth,OEM # 3908830, 3924582
	Exh	SB1857E-1	1.857 O.D.,1.575T I.D.,0.2290 Depth,OEM # 3904716, 3924583, 3929005
		SB1857E-1T	1.857 O.D.,1.575T I.D.,0.2500 Depth,OEM # 3928174, 3970278; NOTE: Same As SB1857E-1 Except 0.020 Thicker
		SB1857E-2	1.857 O.D.,1.573T I.D.,0.2290 Depth,20 Degree, Natural Gas, OEM # 3927257, 3933088
Valve	Int	01667	2.047 Head Diameter,OEM # 3924492
		02255	2.047 Head Diameter,5.952 Overall Length, W/ 20 Degree Seat, Natural Gas, OEM # 3802812, 3927254
		02255S	2.047 Head Diameter,Stellite Face,5.952 Overall Length, W/ 20 Degree Seat; NOTE: Optional Natural Gas
	Exh	01666	1.811 Head Diameter,OEM # 3921444
02254		1.811 Head Diameter,5.942 Overall Length, W/ 20 Degree Seat, Natural Gas, OEM # 3802813, 3927255	
		02254S	1.811 Head Diameter,Stellite Face,5.942 Overall Length, W/ 20 Degree Seat, NOTE: Optional Natural Gas
Keeper	Both	121-1073	1 RD Bead Type,OEM # 3901177
Stem Seal	Both	122-1243	Positive Type,Viton Material,Top Hat Style,OEM # 3901178, 3915707, 3919038, 3927642
		122-1391	Positive Type,Viton Material,Top Hat Style,OEM # 3930057, Natural Gas
Guide	Both	140-3068	0.3761 I.D.,2.835 Length,0.6297 O.D.,OEM # 3925863, Natural Gas
		140-3068SA	0.3761 I.D.,2.835 Length,0.6297 O.D.,""Special Alloy"" , For Ultra Low Sulfur Diesel & Natural Gas
		140-8122	0.3761 I.D.,2.835 Length,0.6297 O.D.,OEM # 3923564
		140-8122SA	0.3761 I.D.,2.835 Length,0.6297 O.D.,""Special Alloy"" For Ultra Low Sulfur Diesel
Spring	Exh	160-1669	3.070 Length,W/ Damper,OEM # 3916588; NOTE: With Pink Stripes, W/ 70 lbs Additional Seat Pressure
	Both	160-1592	2.608 Length,OEM # 3906412, 3991085, 5292625
		160-1629	2.445 Length,OEM # 3925272; NOTE: Natural Gas & Some Marine Applications, Use With 161-1075 Rotator
Rotator	Both	161-1075	OEM # 3925273; NOTE: Natural Gas & Some Marine Applications, Use With 160-1629 Valve Spring
Lifter	Both	VL156	Mechanical Type,OEM # 3931623

505 C.I., (8.3L), ISC/QSC Series, Diesel, OHV, 24 Valve, ""TURBO""

ISC/QSC6-24V 30

L6 505 CID

BORE - 114mm/4.488"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1554E-1	1.554 O.D.,1.280T I.D.,0.2360 Depth,+10 & +20 O/S Available,OEM # 3940152, 3969704
	Exh	SB1554E-2	1.554 O.D.,1.301T I.D.,0.1900 Depth,+10 & +20 O/S Available,OEM # 3940153, 3968074
Valve	Int	02188	1.496 Head Diameter,OEM # 3800340, 3942588

CUMMINS / HEAVY DUTY (Cont'd)

30 505 C.I., (8.3L), ISC/QSC Series, Diesel, OHV, 24 Valve, ""TURBO"" ISC/QSC6-24V
 (cont.) L6 505 CID BORE - 114mm/4.488""

PART		PART NO.	NOTES
Valve	Int	13162	1.496 Head Diameter,Inconel,OEM # 3970727 & 4089761; Also Services OEM # 4981794 W/ Letter ""C"" In Head Of Valve
	Exh	02187 13163	1.496 Head Diameter,OEM # 3800341, 3942589 1.496 Head Diameter,Inconel,OEM # 3969637, 4089762; W/ Letter ""O"" In Head Of Valve; Also Service OEM # 4981795 W/ Letter ""X"" In Head Of Valve
Keeper	Both	121-1079	1 RD Bead Type,OEM # 3900250
Stem Seal	Both	122-1439	Positive Type,Viton Material,Top Hat Style,OEM # 3943888, 3948578, 3991267, 5253590
Guide	Both	140-8715	0.3163 I.D.,1.949 Length,0.5512 O.D.,OEM # 3942645, 3945249, 3948102, 4934063
Spring	Both	160-1689	2.218 Length,OEM # 5316172, 3944711, 4936076; NOTE: W/O Rotator
Lifter	Both	VL554	Mechanical Type,OEM # 3942565, Use W/ 10mm Pushrod Ball End
		VL572	Mechanical Type,OEM # 3945866

31 543 C.I., (8.9L), ISL/QL9 Series, Diesel, OHV, 24 Valve, ""TURBO"" ISL/QL9-24V
L6 540 CID BORE - 114mm/4.488""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1554E-1	1.554 O.D.,1.280T I.D.,0.2360 Depth,+10 & +20 O/S Available,OEM # 3940152, 3969704
	Exh	SB1554E-2	1.554 O.D.,1.301T I.D.,0.1900 Depth,+10 & +20 O/S Available,OEM # 3940153, 3968074
Valve	Int	13162	1.496 Head Diameter,Inconel,OEM # 3970727 & 4089761; Also Services OEM # 4981794 W/ Letter ""C"" In Head
	Exh	13163	1.496 Head Diameter,Inconel,OEM # 3969637, 4089762; W/ Letter ""O"" In Head; Also Service OEM # 4981795 W/ Letter ""X"" In Head
Keeper	Both	121-1079	1 RD Bead Type,OEM# 3900250
Stem Seal	Both	122-1439	Positive Type,Viton Material,Top Hat Style,OEM # 3943888, 3948578, 3991267, 5253590
Guide	Both	140-8715	0.3163 I.D.,1.949 Length,0.5512 O.D.,OEM # 3942645, 3945249, 3948102, 4934063
Spring	Both	160-1689	2.218 Length,OEM # 5316172, 3944711, 4936076; NOTE: W/O Rotator
Lifter	Both	VL554	Mechanical Type,OEM # 3942565, Use W/ 10mm Pushrod Ball End
		VL572	Mechanical Type,OEM # 3945866

32 555 C.I., (9.1L), V555/VT225/VT555, Diesel, OHV, 32 Valve, ""N/A & TURBO"" V555
V8 555 CID BORE - 117.475mm/4.622""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1691E-1	1.691 O.D.,1 ⁷ / ₁₆ I.D.,0.1810 Depth,+10 O/S Available,OEM # 195000
	Exh	SB1691E-2	1.693 O.D.,1 ⁷ / ₁₆ I.D.,0.2000 Depth,+10 O/S Available,OEM # 154390
Valve	Both	01420S	1.605 Head Diameter,Stellite Face,OEM # 3275355, Late Style W/ Round Groove, Use W/ 121-1027 Keeper
Keeper	Both	121-1007	1 SQ Bead Type,Use W/ Early Style Square Groove Valve
		121-1027	1 RD Bead Type,Use With 01420S
Guide	Both	140-8420	0.3812 I.D.,2.500 Length,0.6268 O.D.,W/ Drilled Relief Hole
Injector Tubes and Components		240-1008	Copper Material,Injector Tube,OEM # 169630
		240-1009R	Viton Material,O-Ring, Black,OEM # 196641, 3007759

(Cont'd) **CUMMINS / HEAVY DUTY**

555 C.I., (9.1L), V8-225, Diesel, OHV, 32 Valve
V8 555 CID

V8-225 **33**
BORE - 117.475mm/4.622"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1691E-1	1.691 O.D., 1 ¹ / ₁₆ I.D., 0.1810 Depth, +10 O/S Available, OEM # 195000
	Exh	SB1691E-2	1.693 O.D., 1 ¹ / ₁₆ I.D., 0.2000 Depth, +10 O/S Available, OEM # 154390
Valve	Both	01420S	1.605 Head Diameter, Stellite Face, OEM # 3275355, Late Style W/ Round Groove, Use W/ 121-1027 Keeper
Keeper	Both	121-1007	1 SQ Bead Type, Use W/ Early Style Square Groove Valve
		121-1027	1 RD Bead Type, Use With 01420S
Guide	Both	140-8420	0.3812 I.D., 2.500 Length, 0.6268 O.D., W/ Drilled Relief Hole
Injector Tubes and Components		240-1008	Copper Material, Injector Tube, OEM # 169630
		240-1009R	Viton Material, O-Ring, Black, OEM # 196641, 3007759

588 C.I., (9.6L), V588/VT588, Diesel, OHV, 24 Valve, ""N/A & TURBO""
V6 588 CID

V588 **34**
BORE - 139.7mm/5.50"

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB2003E-1	2.003 O.D., 1 ¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material, OEM # 200354, 3017759; OEM Replacement
		SB2003E-1N	2.003 O.D., 1 ¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, OEM # 127930, OEM Replacement for Turbo & High Heat Applications, Non-Magnetic
		SB2006E-1	2.006 O.D., 1 ¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, +5, +10, +20 & +30 O/S Available, Also Available In Non-Magnetic (N) Material, OEM # 3032285, +3 Additional Press Fit Over OEM Replacement
		SB2006E-1N	2.006 O.D., 1 ¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, +5, +10, +20 O/S Available, OEM # 127930A, 127930B, Turbo & High Heat Application
Valve	Int	00703	1.870 Head Diameter, OEM # 216707
	Exh	00702	1.870 Head Diameter, OEM # 138887
Keeper	Both	121-1006	2 RD Bead Type
Stem Seal	Both	122-1362	Positive Type, Viton Material, Ring & Spring Style, OEM # 156641
Guide	Both	140-1941	0.4525 I.D., 3.010 Length, 0.7518 O.D.
		140-1941SA	0.4525 I.D., 3.010 Length, 0.7518 O.D., ""Special Alloy"" For Ultra Low Sulfur Diesel

588 C.I., (9.6L), V6-200, Diesel, OHV, 24 Valve
V6 588 CID

V6-200 **35**
BORE - 139.7mm/5.50"

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB2003E-1	2.003 O.D., 1 ¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material, OEM # 200354, 3017759; OEM Replacement
		SB2003E-1N	2.003 O.D., 1 ¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, OEM # 127930, OEM Replacement for Turbo & High Heat Applications, Non-Magnetic
		SB2006E-1	2.006 O.D., 1 ¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, +5, +10, +20 & +30 O/S Available, Also Available In Non-Magnetic (N) Material, OEM # 3032285, +3 Additional Press Fit Over OEM Replacement
		SB2006E-1N	2.006 O.D., 1 ¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, +5, +10, +20 O/S Available, OEM # 127930A, 127930B, Turbo & High Heat Application
Valve	Int	00703	1.870 Head Diameter, OEM # 216707
	Exh	00702	1.870 Head Diameter, OEM # 138887
Keeper	Both	121-1006	2 RD Bead Type, OEM # 127554
Stem Seal	Both	122-1362	Positive Type, Viton Material, Ring & Spring Style, OEM # 156641
Guide	Both	140-1941	0.4525 I.D., 3.010 Length, 0.7518 O.D.
		140-1941SA	0.4525 I.D., 3.010 Length, 0.7518 O.D., ""Special Alloy"" For Ultra Low Sulfur Diesel

CUMMINS / HEAVY DUTY (Cont'd)

36 611 C.I., (10.0L), L-10, Diesel, OHV, 24 Valve, ""TURBO""

L10

L6 611 CID

BORE - 125mm/4.921""

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1812E-4	1.812 O.D.,1.450 I.D.,0.1860 Depth,+5, +10, +20 & +30 O/S Available,Except Nat. Gas; OEM # 3028070 & 3820180, NOTE: I.D. Is .070 Smaller And Depth Is 0.010 Shorter Than OEM Service Parts In Order To Accommodate Late Style Valves W/ Radius Head
		SB1812E-4T	1.812 O.D.,1.520 I.D.,0.2240 Depth,Except Nat. Gas; Special, 0.224 O/S Depth, OEM # 3418052, 3820700
Valve	Int	01532	1.673 Head Diameter,6.945 Overall Length, W/ Dual Spring, Also Single Spring For Industrial Applications, OEM # 3033234 & 3801356, W/ ""+"" Sign In Head, To 1991
		01663	1.673 Head Diameter,7.690 Overall Length, OEM # 3803310, 3068828, 3080975, 3417778, 3418020 & 3800638, From 1991, NOTE: Must Be Used With Seat I.D. 1.450
		01531	1.673 Head Diameter,6.940 Overall Length, W/ Dual Spring, Up To 250 HP, OEM # 3033235, 3818520 & 3801357, W/ Letter ""N"" In Head, To 1991
	Exh	01658S	1.673 Head Diameter,Stellite Face,6.940 Overall Length, 250 HP, OEM # 3883287 & 3803348, W/ Letter ""J"" In Head, 1988-1991
		01662S	1.673 Head Diameter,Stellite Face,7.695 Overall Length, W/ Single Spring, OEM # 3080976, 3417715, 3417779, 3800637. W/ Letter ""S"" In Head, From 1991, NOTE: Late Style W/ Dual Radius On Margin
		01662SNR	1.673 Head Diameter,Stellite Face,7.695 Overall Length, OEM # 3070159, 3065900, 3417714, 3418021, 3800639, 3803311, 3803730, 3895110, , NOTE: Early Style W/ Radius On Combustion Face And Square Edge On Seat Face Side
	Both	01720S	1.673 Head Diameter,Stellite Face,6.945 Overall Length, Natural Gas, OEM # 3884005, W/ Letter ""F"" In Head, 30 Degree Seat
Keeper	Both	121-1027	1 RD Bead Type,OEM # 3275354
Stem Seal	Both	122-1241	Positive Type,Viton Material,Metal Clad Style,OEM # 3073509, 3073510 & 3328781, Use W/ Short Guide 140-8210
		122-1374	Positive Type,Viton Material,Metal Clad Style,OEM # 3606766, 4003965, 4003966, Use W/ Long Guide 140-3008
Guide	Both	140-3008	0.3819 I.D.,3.374 Length,0.6506 O.D.,OEM # 3328786, 4923471, Machined For Seal, +2 O/S Available
		140-7625	0.3819 I.D.,2.934 Length,0.6504 O.D.,OEM # 3033314
		140-7625SA	0.3819 I.D.,2.934 Length,0.6504 O.D., ""Special Alloy"", For Ultra Low Sulfur Diesel
		140-8210	0.3819 I.D.,2.633 Length,0.6504 O.D.,OEM # 3073512, 3328785, Machined For Seal, Guide Must Protrude 1.079 Above The Top Surface Of The Head, +2 O/S Available
		140-8210SA	0.3819 I.D.,2.633 Length,0.6504 O.D., ""Special Alloy"", For Ultra Low Sulfur Diesel
Spring	Both	160-1303	3.100 Length,OEM # 3033233, Inner
		160-1304	3.300 Length,OEM # 3033232, Outer
		160-1414	4.067 Length,(91L10)
Injector Tubes and Components		240-1009	Copper Material,Injector Tube, Thin Nose,Copper, OEM # 3011934, 3070486; Early
		240-1009R	Viton Material,O-Ring, Black,OEM # 196641, 3007759; Early
		240-1010	Copper Material,Injector Tube, Heavy Nose,Copper, OEM # 3011935, 3071147; Early
		240-1011	Stainless Steel Material,Injector Tube,Late Style, Stainless, OEM # 3417717; NOTE: When Using Stainless Sleeve 240-1011 In Place Of Copper Sleeve, 240-1009R O-Ring Must Be Used. 2.060"" Overall Length
		240-1011R	Viton Material,O-Ring, Black,Late Style, OEM # 3035026; NOTE: Use With 240-1011 Stainless Injector Tube

(Cont'd) **CUMMINS / HEAVY DUTY**

671 C.I., (11.0L), M11, Diesel, OHV, 24 Valve, ""TURBO""
L6 671 CID

M11 **37**
BORE - 125mm/4.921""

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1812E-4	1.812 O.D.,1.450 I.D.,0.1860 Depth,+5, +10, +20 & +30 O/S Available,Except Nat. Gas; OEM # 3028070 & 3820180, NOTE: I.D. Is .070 Smaller And Depth Is 0.010 Shorter Than OEM Service Parts In Order To Accommodate Late Style Valves W/ Radius Head
		SB1812E-4T	1.812 O.D.,1.520 I.D.,0.2240 Depth,Except Nat. Gas; Special, 0.224 O/S Depth, OEM # 3418052, 3820700
Valve	Int	01532	1.673 Head Diameter,6.945 Overall Length, W/ Dual Spring, Also Single Spring For Industrial Applications, OEM # 3033234 & 3801356, W/ ""+"" Sign In Head, To 1991
		01663	1.673 Head Diameter,7.690 Overall Length, OEM # 3803310, 3068828, 3080975, 3417778, 3418020 & 3800638
		01531	1.673 Head Diameter,6.940 Overall Length, W/ Dual Spring, Up To 250 HP, OEM # 3033235, 3818520 & 3801357, W/ Letter ""N"" In Head, To 1991
	Exh	01658S	1.673 Head Diameter,Stellite Face,6.940 Overall Length, 250 HP, OEM # 3883287 & 3803348, W/ Letter ""J"" In Head, 1988-1991
		01662S	1.673 Head Diameter,Stellite Face,7.695 Overall Length, W/ Single Spring, OEM # 3080976, 3417715, 3417779, 3800637; W/ Letter ""S"" In Head, From 1991, NOTE: Late Style W/ Dual Radius On Margin
		01662SNR	1.673 Head Diameter,Stellite Face,7.695 Overall Length, OEM # 3070159, 3065900, 3417714, 3418021, 3800639, 3803311, 3803730, 3895110, , NOTE: Early Style W/ Radius On Combustion Face And Square Edge On Seat Face Side
Both	01720S	1.673 Head Diameter,Stellite Face,6.945 Overall Length, Natural Gas, OEM # 3884005, W/ Letter ""F"" In Head, 30 Degree Seat	
Keeper	Both	121-1027	1 RD Bead Type,OEM # 3275354
Stem Seal	Both	122-1241	Positive Type,Viton Material,Metal Clad Style,OEM # 3073509, 3073510 & 3328781, Use W/ Short Guide 140-8210
		122-1374	Positive Type,Viton Material,Metal Clad Style,OEM # 3606766, 4003965, 4003966, Use W/ Long Guide 140-3008
Guide	Both	140-3008	0.3819 I.D.,3.374 Length,0.6506 O.D.,OEM # 3328786, 4923471, Long Guide, Machined For Seal, +2 O/S Available
		140-7625	0.3819 I.D.,2.934 Length,0.6504 O.D.,OEM # 3033314
		140-7625SA	0.3819 I.D.,2.934 Length,0.6504 O.D.,""Special Alloy"", For Ultra Low Sulfur Diesel
		140-8210	0.3819 I.D.,2.633 Length,0.6504 O.D.,OEM # 3703512, 3328785, Machined For Seal, +2 O/S Available
		140-8210SA	0.3819 I.D.,2.633 Length,0.6504 O.D.,""Special Alloy"", For Ultra Low Sulfur Diesel
Spring	Both	160-1414	4.067 Length,(91L10)
Injector Tubes and Components		240-1009	Copper Material,Injector Tube, Thin Nose,Copper, OEM # 3011934, 3070486; Early; NOTE: When Using 240-1009 Copper Sleeve In Place Of Stainless Sleeve, 240-1011R O-Ring Must Used.
		240-1009R	Viton Material,O-Ring, Black,OEM # 196641, 3007759; Early
		240-1010	Copper Material,Injector Tube, Heavy Nose,Copper, OEM # 3011935, 3071147; Early
		240-1011	Stainless Steel Material,Injector Tube,Late Style, Stainless, OEM # 3417717; NOTE: When Using Stainless Sleeve 240-1011 In Place Of Copper Sleeve, 240-1009R O-Ring Must Be Used. 2.060"" Overall Length
		240-1011R	Viton Material,O-Ring, Black,Late Style, OEM # 3035026; NOTE: Use With 240-1011 Stainless Injector Tube

CUMMINS / HEAVY DUTY (Cont'd)

38 659 C.I., (11.0L), ISM, Diesel, OHV, 24 Valve, ""TURBO""

ISM

L6 671 CID

BORE - 125mm/4.921""

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1812E-9	1.812 O.D.,1.430 I.D.,0.1860 Depth,+5, +10 & +20 O/S Available,OEM # 3090703, 3090704
Valve	Int	01663	1.673 Head Diameter,7.690 Overall Length, OEM # 3417778
	Exh	01662S	1.673 Head Diameter,Stellite Face,7.695 Overall Length, W/ Single Spring, OEM # 3080976, 3417715, 3417779, 3800637. W/ Letter ""S"" In Head; NOTE: Late Style W/ Dual Radius On Margin
		01662SNR	1.673 Head Diameter,Stellite Face,7.695 Overall Length, OEM # 3070159, 3065900, 3417714, 3418021, 3800639, 3803311, 3803730, 3895110, , NOTE: Early Style W/ Radius On Combustion Face And Square Edge On Seat Face Side
Keeper	Both	121-1027	1 RD Bead Type,OEM # 3275354
Stem Seal	Both	122-1374	Positive Type,Viton Material,Metal Clad Style,OEM # 3606766, 4003965, 4003966,
Guide	Both	140-3008	0.3819 I.D.,3.374 Length,0.6506 O.D.,OEM # 3328786, 4923471, Machined For Seal, +2 O/S Available
Spring	Both	160-1414	4.067 Length,OEM # 3895860
Injector Tubes and Components	Both	240-1009	Copper Material,Injector Tube, Thin Nose,OEM # 3011934, 3070486; NOTE: When Using 240-1009 Copper Sleeve In Place Of Stainless Sleeve, 240-1011R O-Ring Must Used.
		240-1010	Copper Material,Injector Tube, Heavy Nose,Copper, OEM # 3011935, 3071147; Early
		240-1011	Stainless Steel Material,Injector Tube,OEM # 3417717 2.060 Overall Length
		240-1011R	Viton Material,O-Ring, Black,OEM # 3035026

39 672 C.I., (11.0L), HB-6, Diesel, OHV, 12 Valve

HB6

L6 672 CID

BORE - 123.8mm/4.874""

PART		PART NO.	NOTES
Stem Seal	Both	122-1053	Positive Type,Viton Material, Ring & Band Style,Black Color Seal

40 672 C.I., (11.0L), NH180, Diesel, OHV, 24 Valve

NH180

L6 672 CID

BORE - 123.8mm/4.874""

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1847E-1	1.846 O.D.,1 ¹ / ₁₆ I.D., ⁹ / ₃₂ Depth,SPECIAL ORDER,OEM # 69965
Valve	Both	00326S	1.745 Head Diameter,Stellite Face,OEM #'s 70671 & 144911
Keeper	Both	121-1000	2 RD Bead Type
Stem Seal	Both	122-1014	Positive Type,Tef/Rub Material,1-Ring Style
Guide	Both	140-1969	0.4050 I.D.,3.438 Length,0.7520 O.D.,Std. O.D.
Injector Tubes and Components		240-1009R	Viton Material,O-Ring, Black,OEM # 196641, 3007759

41 672 C.I., (11.0L), NH195, Diesel, OHV, 24 valve

NH195

L6 672 CID

BORE - 123.8mm/4.874""

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1847E-1	1.846 O.D.,1 ¹ / ₁₆ I.D., ⁹ / ₃₂ Depth,SPECIAL ORDER,OEM # 69965
Valve	Both	00326S	1.745 Head Diameter,Stellite Face,OEM #'s 70671 & 144911
Keeper	Both	121-1000	2 RD Bead Type
Stem Seal	Both	122-1014	Positive Type,Tef/Rub Material,1-Ring Style
Guide	Both	140-1969	0.4050 I.D.,3.438 Length,0.7520 O.D.,Std. O.D.
Injector Tubes and Components		240-1009R	Viton Material,O-Ring, Black,OEM # 196641, 3007759

(Cont'd) **CUMMINS / HEAVY DUTY**

726 C.I., (11.9L), ISX, Diesel, OHV, 24 Valve, ""TURBO""

ISX_OHV 42

L6 726 CID

BORE - 130.0mm/5.118""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1835E-3C	1.835 O.D.,1.515T I.D.,0.1880 Depth,OEM #4374017; NOTE: Must Be Used W/ 13471 Valve
		SB1835E-4	1.835 O.D.,1.515T I.D.,0.1880 Depth,OEM #2869832; NOTE: Must Be Used W/13472 Valve
	Exh	SB1756E-1	1.756 O.D.,1.445T I.D.,0.2170 Depth,OEM #2887957
Valve	Int	13471	1.752 Head Diameter,OEM #4311992
		13472	1.752 Head Diameter,OEM #2869887
	Exh	13473	1.672 Head Diameter,OEM #2887954
Keeper	Both	121-1091	1 RD Bead Type
Stem Seal	Both	122-1374	Positive Type,Viton Material,Metal Clad Style
Guide	Both	140-3008	0.3819 I.D.,3.374 Length,0.6506 O.D.

726 C.I., (11.9L), QSX11.9, Diesel, OHV, 24 Valve, ""TURBO""

QSX11.9 43

L6 726 CID

BORE - 130.0mm/5.118""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1835E-4	1.835 O.D.,1.515T I.D.,0.1880 Depth,OEM #2869832
	Exh	SB1756E-2C	1.756 O.D.,1.445T I.D.,0.2370 Depth,OEM #2884750
Valve	Int	13472	1.752 Head Diameter,OEM #2869887
	Exh	13474	1.675 Head Diameter,OEM #2892034
Keeper	Both	121-1091	1 RD Bead Type,OEM # 3680883
Stem Seal	Both	122-1374	Positive Type,Viton Material,Metal Clad Style,OEM # 4003966
Guide	Both	140-3008	0.3819 I.D.,3.374 Length,0.6506 O.D.,OEM # 4923471

726 C.I., (11.9L), ISX11.9/12, Diesel, SOHC, 24 Valve, ""TURBO""

ISX11.9/12 44

L6 726 CID

BORE - 130.0mm/5.118""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1953E-4	1.953 O.D.,1.640T I.D.,0.1950 Depth,+5 & +10 O/S Available,OEM #'S 3104445, 3681071, 4059215
		SB1953E-4C	1.953 O.D.,1.640T I.D.,0.1950 Depth,OEM # 4393425; NOTE: Must Be Used W/13308 Valve
	Exh	SB1874E-2	1.874 O.D.,1.556T I.D.,0.2380 Depth,+10 O/S Available,OEM #'S 3679537, 3679659, 3683349
Valve	Int	02262 13308	1.870 Head Diameter,OEM #'S 3680760, 4059216, 4059326, 4965868 1.870 Head Diameter,Inconel,OEM # 3685996; NOTE: W/ Letter "" I "" In Head
	Exh	02263S 13309S	1.790 Head Diameter,Stellite Face,OEM #'S 3680759, 4059327, 4101454 1.790 Head Diameter,Inconel, Stellite Face,OEM # 3686661; NOTE: W/ Letter "" O "" In Head
Keeper	Both	121-1091	1 RD Bead Type,OEM # 3680883
Stem Seal	Both	122-1448	Positive Type,Viton Material,Metal Clad Style,OEM #'S 3685997, 4312008, NOTE: Early Without Spring Seat
		122-1463	Positive Type,Viton Material,Top Hat Style,OEM # 4356366; NOTE: Late, Replaces Early Style Metal Clad and Spring Seat
Guide	Both	140-3061	0.3819 I.D.,4.105 Length,0.6506 O.D.,+2 O/S Available (140-3061+2),OEM # 4026657
Spring	Both	160-1479	3.886 Length,OEM #'S 3679551, 368100, 4965891
Injector Tubes and Components		240-1030R	Viton Material,O-Ring,OEM # 3678536, 3687210
		240-1048	Stainless Steel Material,Injector Tube,OEM # 3685966
		240-1048RTR	Iron Material,Retaining Ring,OEM # 3686883

CUMMINS / HEAVY DUTY (Cont'd)

45 743 C.I., (12.2L), N743/NH743, Diesel, OHV, 24 Valve, ""TURBO"" N743-4V
 L6 743 CID BORE - 130.2mm/5.125""

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1847E-1	1.846 O.D., 1 ¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, SPECIAL ORDER, OEM # 69965, Exc. Natural Gas
Valve	Both	00326S 01656S	1.745 Head Diameter, Stellite Face, OEM #'s 70671 & 144911 1.745 Head Diameter, Stellite Face, Letter ""S"" In Head, Natural Gas 15 Deg. Seat OEM # 90210008
Keeper	Both	121-1000	2 RD Bead Type
Guide	Both	140-1969	0.4050 I.D., 3.438 Length, 0.7520 O.D., Std. O.D.
Rocker Components		187-1051 187-1052 187-1068	Roll Pin, OEM # 118939 Bridge Guide, OEM # 123558 Injector Cam Roller, OEM # 3062096

46 743 C.I., (12.2L), NH Series, Diesel, OHV, 24 Valve, ""TURBO"" NH
 L6 743 CID BORE - 130.2mm/5.125""

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1847E-1	1.846 O.D., 1 ¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, SPECIAL ORDER, OEM # 69965, Exc. Natural Gas
Valve	Both	00326S 01656S	1.745 Head Diameter, Stellite Face, OEM #'s 70671 & 144911 1.745 Head Diameter, Stellite Face, Letter ""S"" In Head, 15 Deg. Natural Gas, OEM # 90210008
Keeper	Both	121-1000	2 RD Bead Type
Guide	Both	140-1969	0.4050 I.D., 3.438 Length, 0.7520 O.D., Std. O.D.
Spring	Both	160-1306	3.150 Length, OEM # 111446
Rocker Components		187-1051 187-1068	Roll Pin, OEM # 118939 Injector Cam Roller, OEM # 3062096
Injector Tubes and Components		240-1009R	Viton Material, O-Ring, Black, OEM # 196641, 3007759

47 743 C.I., (12.2L), NR & NT Series, Diesel, OHV, 24 Valve, ""TURBO"" NR_NT
 L6 743 CID BORE - 130.2mm/5.125""

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1847E-1	1.846 O.D., 1 ¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, SPECIAL ORDER, OEM # 69965, Exc. Natural Gas
Valve	Both	00326S 01656S	1.745 Head Diameter, Stellite Face, OEM #'s 70671 & 144911 1.745 Head Diameter, Stellite Face, Letter ""S"" In Head, 15 Deg. Natural Gas, OEM # 90210008
Keeper	Both	121-1000	2 RD Bead Type
Guide	Both	140-1969	0.4050 I.D., 3.438 Length, 0.7520 O.D., Std. O.D.

48 785 C.I., (12.9L), V785/VT785/V8-265, Diesel, OHV, 32 Valve, ""N/A & TURBO"" V785_265
 V8 785 CID BORE - 139.7mm/5.50""

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB2003E-1 SB2003E-1N SB2006E-1 SB2006E-1N	2.003 O.D., 1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material, OEM Replacement, OEM # 200354, 3017759 2.003 O.D., 1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, OEM # 127930, OEM Replacement for Turbo & High Heat Applications, Non-Magnetic 2.006 O.D., 1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, +5, +10, +20 & +30 O/S Available, Also Available In Non-Magnetic (N) Material, OEM # 3032285, +3 Additional Press Fit Over OEM Replacement 2.006 O.D., 1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, +5, +10, +20 O/S Available, OEM #127930A, 127930B, Turbo & High Heat Application

(Cont'd) **CUMMINS / HEAVY DUTY**

785 C.I., (12.9L), V785/VT785/V8-265, Diesel, OHV, 32 Valve, ""N/A & TURBO""

48
V785_265 (cont.)

V8 785 CID

BORE - 139.7mm/5.50""

PART		PART NO.	NOTES
Valve	Int	00703	1.870 Head Diameter,OEM # 216707
	Exh	00702	1.870 Head Diameter,OEM # 138887
Keeper	Both	121-1006	2 RD Bead Type
Stem Seal	Both	122-1362	Positive Type,Viton Material, Ring & Spring Style,OEM # 156641
Guide	Both	140-1941	0.4525 I.D.,3.010 Length,0.7518 O.D.
		140-1941SA	0.4525 I.D.,3.010 Length,0.7518 O.D., ""Special Alloy"" For Ultra Low Sulfur Diesel

791 C.I., (12.9L), ISZ13, QSZ13, Diesel, SOHC, 24 Valve, ""TURBO""

ISZ13 49

L6 791 CID

BORE - 163.0mm/6.417""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1953E-4	1.953 O.D.,1.640T I.D.,0.1950 Depth,+5 & +10 O/S Available,OEM #S 3104445, 3681071, 4059215
		SB1953E-4C	1.953 O.D.,1.640T I.D.,0.1950 Depth,OEM # 4393425; NOTE: Must Be Used W/13308 Valve
	Exh	SB1874E-2	1.874 O.D.,1.556T I.D.,0.2380 Depth,+10 O/S Available,OEM #S 3679537, 3679659, 3683349
Valve	Int	13308	1.870 Head Diameter,Inconel,OEM # 3685996; NOTE: W/ Letter "" I "" In Head
	Exh	13309S	1.790 Head Diameter,Inconel, Stellite Face,OEM # 3686661; NOTE: W/ Letter "" O "" In Head
Keeper	Both	121-1091	1 RD Bead Type,OEM # 3680883
Stem Seal	Both	122-1448	Positive Type,Viton Material,Metal Clad Style,OEM #S 3685997, 4312008, NOTE: Early Without Spring Seat
		122-1463	Positive Type,Viton Material,Top Hat Style,OEM # 4356366; NOTE: Late, Replaces Early Style Metal Clad and Spring Seat
Guide	Both	140-3061	0.3819 I.D.,4.105 Length,0.6506 O.D.,+2 O/S Available (140-3061+2),OEM # 4026657
Spring	Both	160-1479	3.886 Length,OEM #S 3679551, 3681001, 4965891
Injector Tubes and Components		240-1030R	Viton Material,O-Ring,OEM # 3678536, 3687210
		240-1048	Stainless Steel Material,Injector Tube,OEM # 3685966
		240-1048RTR	Iron Material,Retaining Ring,OEM # 3686883

855 C.I., (14.0L), G/GTA 855, Gas, OHV, 24 Valve, ""Natural Gas""

G/GTA 855 50

L6 855 CID

BORE - 139.7mm/5.50""

PART		PART NO.	NOTES
Valve	Exh	01721S-OEM	1.875 Head Diameter,Stellite Face,OEM # 3226068, 4063086, 80610017, 90210013; NOTE: For Continuous Heads, W/ 20 Degree Seat
Keeper	Both	121-1006	2 RD Bead Type,OEM # 127554
Stem Seal	Int	122-1437	Positive Type,Teflon Material,All Teflon Style,OEM # 3394111
	Exh	122-1471	Positive Type,Viton Material,Metal Clad Style,OEM # 4000643; NOTE: Use with 140-1941 W/.660 Seal Boss
Guide	Int	140-3158	0.4528 I.D.,3.167 Length,0.7518 O.D.,OEM # 3394115; NOTE: W/.627 Seal Boss
		140-3158SA	0.4528 I.D.,3.167 Length,0.7518 O.D., ""Special Alloy"" NOTE: W/.627 Seal Boss
	Exh	140-1941	0.4525 I.D.,3.010 Length,0.7518 O.D.,OEM # 138937
		140-1941SA	0.4525 I.D.,3.010 Length,0.7518 O.D., ""Special Alloy""
Spring	Both	160-1406	2.335 Length,OEM #s 4062872, 4957806 & 90210012
Rotator	Both	161-1072L	Lower Spring Rotator, OEM #s 219091, 4062870, 90210011

CUMMINS / HEAVY DUTY (Cont'd)

51 855 C.I., (14.0L), N-14, Diesel, OHV, 24 Valve, ""TURBO""

N14

L6 855 CID

BORE - 139.7mm/5.50""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1953E-3	1.953 O.D., 1.640T I.D., 0.1950 Depth, +5 O/S Available, 94N14 Select & Plus, OEM # 3084020
		SB2006E-5	2.006 O.D., 1.690 I.D., 0.2140 Depth, +10, +20 & +30 O/S Available, 91N14, OEM # 3054590 & 3054600
	Exh	SB1953E-2C	1.953 O.D., 1.640T I.D., 0.2150 Depth, 94N14 Select & Plus, OEM # 3076515 & 3084041, Can Be Used W/ 30 & 45 Degree Valves
		SB2006E-7C	2.006 O.D., 1.690 I.D., 0.2150 Depth, OEM # 3069692, 91N14
Valve	Int	01660	1.870 Head Diameter, Letter ""O"" In Head, 91N14 OEM # 3068519, 3803360; NOTE: 30 Degree Face, Use For Valve W/ Letter ""O"" In Head
		01756	1.870 Head Diameter, Letter ""A"" in Head, 94N14 Plus & Select OEM # 3084045
	Exh	01659S	1.870 Head Diameter, Stellite Face, 91N14 OEM #'s 3070473, 3078399, 3406657, 3803427, 3803770; NOTE: 30 Degree Face, Use For Valve W/ Letter ""S"" Or ""J"" In Head
		01661S	1.870 Head Diameter, Recommended OEM Nickel Base Inconel Material, Stellite Face, 94N14 Select, OEM # 3069672, 3803726; NOTE: 30 Degree Face, Use For Valve W/ Letter ""X"" In Head
		01847S	1.870 Head Diameter, Stellite Face, 94N14 Plus OEM #'s 3083991, 3084980, 3166410, 3800891, 3804555; NOTE: 45 Degree Face, Use For Valves W/ Letter ""Y"", ""F"" ""J"", In Head
		21661S	1.870 Head Diameter, Alternative Austenitic Material, Stellite Face, 94N14 Select, W/ 30 Degree Face
Keeper	Both	121-1076	1 RD Bead Type, OEM # 3072369
Stem Seal	Both	122-1239	Positive Type, Viton Material, Top Hat Style, OEM # 3064281
Guide	Both	140-8134	0.3819 I.D., 3.400 Length, 0.7518 O.D., +10 O/S Available
		140-8134SA	0.3819 I.D., 3.400 Length, 0.7518 O.D., ""Special Alloy"", For Ultra Low Sulfur Diesel
Spring	Both	160-1302	3.420 Length, OEM # 3070460
Injector Tubes and Components	Both	240-1009	Copper Material, Injector Tube, Thin Nose, OEM # 3011934, 3070486; NOTE: When Using 240-1009 Copper Sleeve In Place Of Stainless Sleeve, 240-1011R O-Ring Must Used.
		240-1010	Copper Material, Injector Tube, Heavy Nose, Copper, OEM # 3011935, 3071147; Early
		240-1009R	Viton Material, O-Ring, Black, OEM # 196641, 3007759
		240-1011	Stainless Steel Material, Injector Tube, OEM # 3417717; NOTE: When Using Stainless Sleeve 240-1011 In Place Of Copper Sleeve, 240-1009R O-Ring Must Be Used.
		240-1011R	Viton Material, O-Ring, Black, OEM # 3035026

52 855 C.I., (14.0L), NH/NT Series, Diesel, OHV, 24 Valve, ""TURBO""

NH_NT_855

L6 855 CID

BORE - 139.7mm/5.50""

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB2003E-1	2.003 O.D., 1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material, OEM Replacement, OEM # 200354, 3017759
		SB2003E-1N	2.003 O.D., 1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, OEM # 127930, OEM Replacement for Turbo & High Heat Applications, Non-Magnetic
		SB2003E-6N	2.003 O.D., 1.625 I.D., 0.2795 Depth, +5 & +10 O/S Available, Optional, Nickel Base Alloy Version of Stellite SB2006E-6C. Can Be Used W/ 15 & 20 Degree Valves
		SB2006E-1	2.006 O.D., 1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, +5, +10, +20 & +30 O/S Available, Also Available In Non-Magnetic (N) Material, OEM # 3032285, +3 Additional Press Fit Over OEM Replacement
		SB2006E-1N	2.006 O.D., 1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, +5, +10, +20 O/S Available, OEM # 127930A, 127930B, Turbo & High Heat Application
		SB2006E-5	2.006 O.D., 1.690 I.D., 0.2140 Depth, +10, +20 & +30 O/S Available, OEM # 3054590 & 3054600; 1988 Big Cam IV, 91N14

(Cont'd) **CUMMINS / HEAVY DUTY**

855 C.I., (14.0L), NH/NT Series, Diesel, OHV, 24 Valve, ""TURBO""
L6 855 CID

NH_NT_855 **52**
BORE - 139.7mm/5.50"" (cont.)

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB2006E-6C	2.006 O.D.,1.630 I.D.,0.2800 Depth,OEM # 80610016 & 90210014, Stellite Material, Can Be Used W/ Natural Gas 15 & 20 Degree Valve
Valve	Int	00603	1.870 Head Diameter,Letter ""O"" in Head,Non Stellite Faced, OEM #135957
	Both	00602	1.870 Head Diameter,Letter ""N"" In Head,Late Style OEM # 3040830
		00602S	1.870 Head Diameter,Stellite Face, W/ Letter ""S"" or ""J"" In Head,OEM # 145701
		01721S	1.875 Head Diameter,Stellite Face,NOTE: Aftermarket Version For Natural Gas, 20 Degree Seat.
		01721S-OEM	1.875 Head Diameter,Stellite Face,NOTE: OEM Recommended Version, Natural Gas, 20 Degree Seat, OEM # 3226068
Keeper	Both	121-1006	2 RD Bead Type,OEM # 127554
Stem Seal	Both	122-1362	Positive Type,Viton Material,Ring & Spring Style,OEM # 156641, Use W/ 140-6452 Guide
Guide	Both	140-6452	0.4528 I.D.,3.195 Length,0.7520 O.D.,Machined For Seal; W/ Oil Relief Hole In Guide Wall
		140-7264	0.4530 I.D.,3.400 Length,0.7620 O.D.,+.010 O.D.
		140-7990	0.4538 I.D.,3.393 Length,0.7518 O.D.,Natural Gas Eng.
		140-7994	0.4530 I.D.,3.400 Length,0.7518 O.D.,+2 O/S Available, Current OEM # 3006456 W/O Sharp Top Edge & Replaces Earlier OEM # 3050369 W/ Sharp Top Edge
		140-7994SA	0.4530 I.D.,3.400 Length,0.7518 O.D.,""Special Alloy"", For Ultra Low Sulfur Diesel
Spring	Both	160-1177	2.685 Length,Do Not Use W/ Old Spring Under The Same Cross Head. OEM # 211999
		160-1305	2.635 Length,OEM # 3035996 & 3081212 Big Cam IV Only
		160-1406	2.335 Length,OEM #'s 4062872, 4957806 & 90210012, Natural Gas Short Spring Used W/ Rotator
Rotator	Both	161-1072L	Lower Spring Rotator, Natural Gas, OEM #'s 219091, 4062870, 90210011
Rocker Components	Both	187-1051	Roll Pin,OEM # 118939, Big Cam I, II, III
		187-1062	Valve Roller Pin,OEM # 3013331, Big Cam I, II, III
		187-1052	Bridge Guide,OEM # 123558, Big Cam
		187-1067	Injector Cam Roller,OEM # 3036934, Big Cam I, II, III
		187-1068	Injector Cam Roller,OEM # 3062096, Small Cam
Injector Tubes and Components		240-1009	Copper Material,Injector Tube, Thin Nose,OEM # 3011934, 3070486; (250) NT 855
		240-1009R	Viton Material,O-Ring, Black,OEM # 196641, 3007759; (250) NT 855
		240-1010	Copper Material,Injector Tube, Heavy Nose,OEM # 3011935, 3071147; (250) NT855

903 C.I., (14.8L), V903/VT903/V903M, Diesel, OHV, 32 Valve, ""N/A & TURBO""
V8 903 CID

v903 **53**
BORE - 139.7mm/5.50""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-14	2.000 O.D.,1 ⁵ / ₁₆ I.D., ⁵ / ₁₆ Depth,OEM # 212217. Note: 45 Degree Starter Seat Angle Must Be Cut To 30 Degree
	Both	SB2003E-1	2.003 O.D.,1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material,OEM # 200354, 3017759: OEM Replacement W/ Std O.D,
		SB2003E-1N	2.003 O.D.,1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth,OEM # 127930, OEM Replacement for Turbo & High Heat Applications, Non-Magnetic
		SB2003E-3N	2.003 O.D.,1 ¹¹ / ₁₆ I.D.,0.2340 Depth,OEM # 212940, OEM Replacement for Turbo & High Heat Applications, Non-Magnetic
		SB2006E-1	2.006 O.D.,1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth,+5, +10, +20 & +30 O/S Available, Also Available In Non-Magnetic (N) Material,OEM # 3032285, +3 Additional Press Fit Over OEM Replacement

CUMMINS / HEAVY DUTY (Cont'd)

53 903 C.I., (14.8L), V903/VT903/V903M, Diesel, OHV, 32 Valve, ""N/A & TURBO"" V903
 (cont.) V8 903 CID BORE - 139.7mm/5.50""

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB2006E-1N	2.006 O.D., 1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, +5, +10, +20 O/S Available, OEM #127930A, 127930B, Turbo & High Heat Application, Non-magnetic
		SB2006E-3N	2.006 O.D., 1 ¹¹ / ₁₆ I.D., 0.2340 Depth
Valve	Int	00703	1.870 Head Diameter, OEM # 216707
	Exh	00702	1.870 Head Diameter, OEM # 138887
Keeper	Both	121-1006	2 RD Bead Type
Stem Seal	Both	122-1362	Positive Type, Viton Material, Ring & Spring Style, OEM # 156641
Guide	Both	140-1941	0.4525 I.D., 3.010 Length, 0.7518 O.D.
		140-1941SA	0.4525 I.D., 3.010 Length, 0.7518 O.D., ""Special Alloy"" For Ultra Low Sulfur Diesel
Spring	Both	160-1424	2.350 Length, Outer
Rocker Components		187-1052	Bridge Guide, OEM # 123558

54 912 C.I., (14.9L) ISX15, QSX15, Diesel, SOHC, 24 Valve, ""TURBO"" ISX15
 L6 912 CID BORE - 137mm/5.394""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1953E-4C	1.953 O.D., 1.640T I.D., 0.1950 Depth, OEM # 4393425; NOTE: Must Be Used W/13308 Valve
	Exh	SB1874E-2	1.874 O.D., 1.556T I.D., 0.2380 Depth, +10 O/S Available, OEM #'S 3679537, 3679659, 3683349
Valve	Int	13308	1.870 Head Diameter, Inconel, OEM # 3685996; NOTE: W/ Letter "" I "" In Head
	Exh	13309S	1.790 Head Diameter, Inconel, Stellite Face, OEM # 3686661; NOTE: W/ Letter "" O "" In Head
Keeper	Both	121-1091	1 RD Bead Type, OEM # 3680883
Stem Seal	Both	122-1448	Positive Type, Viton Material, Metal Clad Style, OEM #'S 3685997, 4312008, NOTE: Early Without Spring Seat
		122-1463	Positive Type, Viton Material, Top Hat Style, OEM # 4356366; NOTE: Late, Replaces Early Style Metal Clad and Spring Seat
Guide	Both	140-3061	0.3819 I.D., 4.105 Length, 0.6506 O.D., +2 O/S Available (140-3061+2), OEM # 4026657
Spring	Both	160-1479	3.886 Length, OEM #'S 3679551, 3681001, 4965891
Injector Tubes and Components		240-1030R	Viton Material, O-Ring, OEM # 3678536, 3687210
		240-1048	Stainless Steel Material, Injector Tube, OEM # 3685966
		240-1048RTR	Iron Material, Retaining Ring, OEM # 3686883

55 912 C.I., (14.9L), X15, Diesel, SOHC, 24 Valve, ""TURBO"" X15
 L6 912 CID BORE - 137mm/5.394""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1953E-4C	1.953 O.D., 1.640T I.D., 0.1950 Depth, OEM # 4393425; NOTE: Must Be Used W/13308 Valve
	Exh	SB1874E-2	1.874 O.D., 1.556T I.D., 0.2380 Depth, +10 O/S Available, OEM #'S 3679537, 3679659, 3683349
Valve	Int	13308	1.870 Head Diameter, Inconel, OEM # 3685996; NOTE: W/ Letter "" I "" In Head
	Exh	13309S	1.790 Head Diameter, Inconel, Stellite Face, OEM # 3686661; NOTE: W/ Letter "" O "" In Head
Keeper	Both	121-1091	1 RD Bead Type, OEM # 3680883
Stem Seal	Both	122-1463	Positive Type, Viton Material, Top Hat Style, OEM # 4356366

(Cont'd) CUMMINS / HEAVY DUTY**912 C.I., (14.9L), X15, Diesel, SOHC, 24 Valve, ""TURBO""****X15 55**

L6 912 CID

BORE - 137mm/5.394"" (cont.)

PART		PART NO.	NOTES
Guide	Both	140-3061	0.3819 I.D.,4.105 Length,0.6506 O.D.,+2 O/S Available (140-3061+2),OEM # 4026657
Spring	Both	160-1479	3.886 Length,OEM #'S 3679551, 3681001, 4965891
Injector Tubes and Components		240-1030R	Viton Material,O-Ring,OEM # 3678536, 3687210
		240-1048	Stainless Steel Material,Injector Tube,OEM # 3685966
		240-1048RTR	Iron Material,Retaining Ring,OEM # 3686883

915 C.I., (15.0L), ISX, QSX, Diesel, DOHC, 24 Valve, ""Signature 600 Series TURBO""**56**

ISX

L6 915 CID

BORE - 137mm/5.394""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1953E-4	1.953 O.D.,1.640T I.D.,0.1950 Depth,+5 & +10 O/S Available,OEM #S 3104445, 3681071, 4059215
		SB1953E-4C	1.953 O.D.,1.640T I.D.,0.1950 Depth,OEM # 4393425; NOTE: Must Be Used W/13308 Valve
	Exh	SB1874E-2	1.874 O.D.,1.556T I.D.,0.2380 Depth,+10 O/S Available,OEM #'S 3679537, 3679659, 3683349
Valve	Int	02262	1.870 Head Diameter,OEM #'S 3680760, 4059216, 4059326, 4965868; Must Be Used With SB1953E-4
		13308	1.870 Head Diameter,Inconel,OEM # 3685996; NOTE: W/ Letter "" I "" In Head, Must Be Used With SB1953E-4C
	Exh	02263S	1.790 Head Diameter,Stellite Face,OEM #'S 3680759, 4059327, 4101454
Keeper	Both	121-1091	1 RD Bead Type,OEM # 3680883
Stem Seal	Both	122-1374	Positive Type,Viton Material,Metal Clad Style,OEM #'s 3606766, 4003965, 4003966, NOTE: Used ONLY On Early Guide W/O Groove In Chimney Up To ESN 14010274
		122-1448	Positive Type,Viton Material,Metal Clad Style,OEM # 3685997, 4026660, 4026791, 4312008; NOTE: Early Style Without Spring Seat, Use With Guide 140-3061 W/ Groove In Chimney
		122-1463	Positive Type,Viton Material,Top Hat Style,OEM # 4356366; NOTE: Late, Replaces Early Style Metal Clad and Spring Seat
Guide	Both	140-3061	0.3819 I.D.,4.105 Length,0.6506 O.D.,+2 O/S Available (140-3061+2),OEM # 4026657; NOTE: Replaces Early Guide W/O Seal Groove On Chimney
Spring	Both	160-1479	3.886 Length,OEM #'S 3679551, 368100, 4965891
Injector Tubes and Components		240-1030	Stainless Steel Material,Injector Tube,OEM #'S 3412352, 3680873
		240-1030CU	Copper Material,Injector Tube,Alternative Copper Material
		240-1030R	Viton Material,O-Ring,OEM # 3678536, 3687210

1159 C.I., (19.0L), K Series, Diesel, OHV, 24 Valve, ""TURBO""**K 57**

L6 1159 CID

BORE - 158.75mm/6.25""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2381E-1	2.381 O.D.,1.930 I.D.,0.3225 Depth,+10 O/S Available,OEM # 3026296, Standard & Premium # 2 Engine
		SB2381E-1C	2.381 O.D.,1.930 I.D.,0.3225 Depth,OEM # 3052819, Premium # 1 Engs. Must Use W/ 01738S Tribaloy Valve
	Exh	SB2381E-2	2.381 O.D.,2.030 I.D.,0.3225 Depth,+10 O/S Available,Alternate, Standard Engine, OEM # 205093 (Similar Exc. Material)
		SB2381E-2C	2.381 O.D.,2.030 I.D.,0.3225 Depth,OEM # 205093, Premium # 1 & # 2 Engine
Valve	Int	01534	2.220 Head Diameter,Std & Premium # 2 Engs., OEM # 207241 & 3803515 NOTE: Do Not Use In Marine & Constant Speed Applications

CUMMINS / HEAVY DUTY (Cont'd)

57 1159 C.I., (19.0L), K Series, Diesel, OHV, 24 Valve, ""TURBO"" K
 (cont.) L6 1159 CID BORE - 158.75mm/6.25""

PART		PART NO.	NOTES
Valve	Int	01738S	2.220 Head Diameter,Stellite Face,Premium #1 Engs., OEM # 3052820; 01738S Must Be Used W/ SB2381E-1C Tribaloy Valve Seat Insert
		13427	2.220 Head Diameter,OEM # 2881836, 3631950, 4986317; NOTE :Nitride, DO NOT MACHINE SEAT FACE , W/ Letter ""O"" In Valve Head
	Exh	01533S	2.220 Head Diameter,Stellite Face,Std. Engs., OEM # 3024395 & 3035110 NOTE: Do Not Use In Marine & Constant Speed Applications
		01734	2.220 Head Diameter,Inconel,Premium # 1 & # 2 Engine, OEM # 3034827
Keeper	Both	121-1069	1 SQ Bead Type,OEM # 205091
Guide	Both	140-7373	0.4977 I.D.,3.580 Length,0.8459 O.D.,OEM # 3018818; Special Applications
		140-7610	0.4977 I.D.,3.585 Length,0.8458 O.D.,OEM # 3021693, 3201311, 3202210; W/ Sharp Edge
		140-8496	0.4164 I.D.,4.000 Length,0.8459 O.D.,Diesel Only, QSK-19 Engine
Spring	Both	160-1176	3.349 Length,Long Spring, W/O Rotator, OEM # 205208 Or 3629006, For Std. Eng. Only
		160-1641	2.795 Length,W/ White Stripe,Short Spring, W/ Rotator, OEM # 3065934, 3629007, 3630628, 3633840, 3643725; NOTE: With White Stripe
Rotator	Both	161-1045L	Lower Spring Rotator, OEM # 3065936, 3081081, 3640315

58 1159 C.I., (19.0L), KTA19G/GC, Gas, OHV, 24 Valve, ""Natural Gas"" KTA19G
 L6 1159 CID BORE - 158.75mm/6.25""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2381E-1C	2.381 O.D.,1.930 I.D.,0.3225 Depth,Services OEM # 3086193 Except 0.010"" Taller
Valve	Int	01738S	2.220 Head Diameter,Stellite Face,OEM # 3052820, 3803518
Keeper	Both	121-1069	1 SQ Bead Type,OEM # 205091
Spring	Both	160-1641	2.795 Length,W/ White Stripe,OEM # 3065934, 3629007, 3630628, 3633840, 3643725
Rotator	Both	161-1045L	OEM # 3081081

59 1404 C.I., (23.0L), QSK23, Diesel, OHV, 24 Valve, ""TURBO"" QSK23
 L6 1404 CID BORE - 170.0mm/6.693""

PART		PART NO.	NOTES
Valve	Int	13447	2.402 Head Diameter,W/ Letters ""IN"" In Head,OEM # 4007179, 4089089
	Exh	13448S	2.323 Head Diameter,Stellite Face, W/ Letter ""E"" In Head,OEM # 4007180, 4089090

60 1486 C.I., (24.4L), NVH450, V1486, VT1486, VT600, Diesel, OHV, 48 Valve, ""N/A & TURBO"" V12_5.125
 V12 1486 CID BORE - 130.2mm/5.125""

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1847E-1	1.846 O.D.,1 ¹ / ₁₆ I.D., ⁹ / ₃₂ Depth,SPECIAL ORDER,OEM # 69965
Valve	Both	00326S	1.745 Head Diameter,Stellite Face,OEM #'s 70671 & 144911
Keeper	Both	121-1000	2 RD Bead Type
Stem Seal	Both	122-1014	Positive Type,Tef/Rub Material,1-Ring Style
Guide	Both	140-1969	0.4050 I.D.,3.438 Length,0.7520 O.D.,Std. O.D.

61 1710 C.I., (28.0L), VT12/1710/V28 Series, Diesel, OHV, 48 Valve, ""N/A & TURBO"" VT12_1710_V28
 V12 1710 CID BORE - 139.7mm/5.50""

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB2003E-1	2.003 O.D.,1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material,OEM Replacement, OEM # 3017759

DAEWOO / PASSENGER CAR (Cont'd)

2 1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin Z, ""GM X20SE Ecotec"" **DAE2.0DC**
 1999-02 L4 122 CID **BORE - 86mm/3.39""**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1999-02	SB1375E-1	1.375 O.D.,1.100T I.D.,0.2270 Depth,OEM Replacement, +10 O/S Available,Note: Seat May Need To Be Machined To Achieve Correct Depth, Must Use Adjustable Cutter
	Exh	1999-02	SB1187-52	
Valve	Int	1999-02	10784	1.260 Head Diameter
	Exh	1999-02	02040S	1.142 Head Diameter,Recommended OEM Nickel Base Inconel Material, Stellite Face
		1999-02	22040S	1.142 Head Diameter,Alternative Austenitic Material, Stellite Face
Keeper	Both	1999-02	121-1098	3 RD Bead Type
Stem Seal	Both	1999-02	122-1329	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1999-02	140-3010	0.2362 I.D.,1.773 Length,0.3950 O.D.
	Exh	1999-02	140-3011	
Lifter	Both	1999-02	VL571	Hydraulic Bucket Type

3 2200cc, (2.2L), DOHC, GAS, FI, 16 Valve, Vin 2, ""GM X22SE Ecotec"" **DAE2.2DC**
 1999-02 L4 134 CID **BORE - 86mm/3.39""**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1999-02	SB1375E-1	1.375 O.D.,1.100T I.D.,0.2270 Depth,OEM Replacement, +10 O/S Available,Note: Seat May Need To Be Machined To Achieve Correct Depth, Must Use Adjustable Cutter
	Exh	1999-02	SB1187-52	
Valve	Int	1999-02	10784	1.260 Head Diameter
	Exh	1999-02	02040S	1.142 Head Diameter,Recommended OEM Nickel Base Inconel Material, Stellite Face
		1999-02	22040S	1.142 Head Diameter,Alternative Austenitic Material, Stellite Face
Keeper	Both	1999-02	121-1098	3 RD Bead Type
Stem Seal	Both	1999-02	122-1329	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1999-02	140-3010	0.2362 I.D.,1.773 Length,0.3950 O.D.
	Exh	1999-02	140-3011	
Lifter	Both	1999-02	VL571	Hydraulic Bucket Type

DETROIT DIESEL / HEAVY DUTY

Engine	Models	Line No.
106 C.I., (1.7L), 53 Series, Diesel, OHV, 2 Valve Head 2, 3, 4, 6, & 8 Cylinder		1
142 C.I., (2.3L), 71 Series, Diesel, OHV, 2 Valve Head 2, 3, 4, 6, 8, 12 & 16 Cylinder		2
212 C.I., (3.5L), 53 Series Diesel, OHV, 4 Valve Head 2, 3, 4, 6 & 8 Cylinder		3
284 C.I., (4.7L), 71 Series, Diesel, OHV, 4 Valve Head 2, 3, 4, 6, 8, 12, & 16 Cylinder		6
1104 C.I., (18.1L), 92 Series, Diesel, OHV, 4 Valve Head 6, 8, 12 & 16 Cylinder		18
4 Cylinder		
220 C.I., (3.6L), 220B, Diesel, OHV, 8 Valve, ""Bedford TURBO""		4

(Cont'd) DETROIT DIESEL / HEAVY DUTY

Engine	Models	Line No.
4 Cylinder		
259 C.I., (4.3L), MBE904, Diesel, OHV, 12 Valve, ""TURBO""		5
292 C.I., (4.8L), MBE924, Diesel, OHV, 12 Valve, ""TURBO""		7
519 C.I., (8.5L), 50 Series, Diesel, SOHC, 16 Valve, ""TURBO""		11
6 Cylinder		
389 C.I., (6.4L), MBE906, Diesel, OHV, 18 Valve, ""TURBO""		8
439 C.I., (7.2L), MBE926, Diesel, OHV, 18 Valve, ""TURBO""		9
677 C.I., (11.1L), 60 Series, Diesel, SOHC, 24 Valve, ""TURBO""		12
775 C.I., (12.7L), 60 Series, Diesel, SOHC, 24 Valve, ""TURBO""		13
781 C.I., (12.8L), DD13, Diesel, DOHC, 24 Valve, ""TURBO""		14
858 C.I., (14.0L), 60 Series, Diesel, SOHC, 24 Valve, ""TURBO""		15
906 C.I., (14.8L), DD15, Diesel, DOHC, 24 Valve, ""TURBO""		16
952 C.I., (15.6L), DD16, Diesel, DOHC, 24 Valve, ""TURBO""		17
8 Cylinder		
501 C.I., (8.2L), 8.2L, Diesel, OHV, 16 Valve, ""N/A & TURBO""		10
16 Cylinder		
2384 C.I., (39.1L), 16V-149 Series, Diesel, DOHC, 64 Valve, ""TURBO""		19

106 C.I., (1.7L), 53 Series, Diesel, OHV, 2 Valve Head 2, 3, 4, 6, & 8 Cylinder	53_2V	1
L 106 CID	BORE - 98.425mm/3.875"	

PART	PART NO.	NOTES
Valve Seat Insert	Exh SB1441E-1	1.441 O.D.,1-13/64T I.D.,0.2150 Depth,OEM # 5116196
Valve	Exh 00758	1.400 Head Diameter,OEM # 5195948
Keeper	Exh 121-1011	1 SQ Bead Type,OEM # 5111337
Stem Seal	Exh 122-1189 122-1223	Positive Type,Teflon Material,All Teflon Style Positive Type,Teflon Material,Metal Clad Style,OEM Style, # 8921209
Guide	Exh 140-1832 140-6254	0.3130 I.D.,2.500 Length,0.5000 O.D.,+2 O/S Available 0.2510 I.D.,2.360 Length,0.4998 O.D.,Cut For Seal,OEM # 5131961, +2, +3, +5, & +10 O/S Available
Injector Tubes and Components	240-1012 240-1013 240-1013R 240-1016	Copper Material,Injector Tube, Thin Nose,OEM # 8925606, 5199527 Copper Material,Injector Tube, Thick Nose,OEM # 5150041, 8925981 Viton Material,O-Ring, Black,OEM # 5160037, 5104701 Steel Material,Water Director,OEM # 5119293

142 C.I., (2.3L), 71 Series, Diesel, OHV, 2 Valve Head 2, 3, 4, 6, 8, 12 & 16 Cylinder	71_2V	2
L 142 CID	BORE- 104.78mm/4.125"	

PART	PART NO.	NOTES
Valve Seat Insert	Exh SB1628E-2 SB1628E-2+010 SB1628E-2+020 SB1628E-2+030	1.628 O.D.,1 ¹¹ / ₃₂ T I.D.,1/4 Depth,+10, +20, & +30 O/S Available,OEM # 5131096 & 8927920 1.638 O.D.,1 ¹¹ / ₃₂ T I.D.,1/4 Depth,OEM # 5198230 1.648 O.D.,1 ¹¹ / ₃₂ T I.D.,1/4 Depth,OEM # 5198232 1.658 O.D.,1 ¹¹ / ₃₂ T I.D.,1/4 Depth,OEM # 5198233
Valve	Exh 00327	1.584 Head Diameter,OEM # 5193197, Except H.O.

DETROIT DIESEL / HEAVY DUTY (Cont'd)

2 142 C.I., (2.3L), 71 Series, Diesel, OHV, 2 Valve Head 2, 3, 4, 6, 8, 12 & 16
(cont.) Cylinder

71_2V

L 142 CID

BORE- 104.78mm/4.125"

PART		PART NO.	NOTES
Valve	Exh	00411	1.584 Head Diameter, Inconel, OEM # 5193666, H.O.
Keeper	Exh	121-1003	1 SQ Bead Type, OEM # 23507238
Stem Seal	Exh	122-1014 122-1221	Positive Type, Tef/Rub Material, 1-Ring Style, Machine Guide To 0.562 O.D. Positive Type, Teflon Material, Metal Clad Style, OEM # 23500480
Guide	Exh	140-1680	0.3450 I.D., 3.250 Length, 0.5639 O.D., +5 O/S Available, OEM # 5120930
Rocker Components		187-1080	Cam Follower Roller Set; 0.550 Roller Width, OEM # 8923814
Injector Tubes and Components		240-1012	Copper Material, Injector Tube, Thin Nose, OEM # 8925606, 5199527
		240-1013	Copper Material, Injector Tube, Thick Nose, OEM # 5150041, 8925981
		240-1013R	Viton Material, O-Ring, Black, OEM # 5160037, 5104701

3 212 C.I., (3.5L), 53 Series Diesel, OHV, 4 Valve Head 2, 3, 4, 6 & 8 Cylinder

53_4V

L 212 CID

BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1161E-1 SB1161E-1+010	1.161 O.D., 0.910T I.D., 0.2220 Depth, +10, +20, +30, +40 & +62 O/S Available, OEM #'s 5116361 & 8921501 1.171 O.D., 0.910T I.D., 0.2220 Depth, OEM # 5196752
Valve	Exh	00759 01018 21018	1.090 Head Diameter, OEM # 5199323, Except Turbo 1.090 Head Diameter, Recommended OEM Nickel Base Inconel Material, OEM # 5197176, Turbo & Marine 1.090 Head Diameter, Alternative Austenitic Material, Turbo
Keeper	Exh	121-1017	1 SQ Bead Type, OEM # 5116341
Stem Seal	Exh	122-1224	Positive Type, Teflon Material, Metal Clad Style, OEM Style, # 8921741
Guide	Exh	140-6254	0.2510 I.D., 2.360 Length, 0.4998 O.D., Cut For Seal, OEM # 5131961, +2, +3, +5, & +10 O/S Available
Spring	Exh	160-1185 160-1187	2.090 Length, OEM # 5144019; NOTE: Hi-Lift 2.060 Length, OEM # 5147424; NOTE: Lo-Lift
Rocker Components		187-1079	Valve Roller & Pin Set; 0.343 Roller Width, OEM # 8923813
		187-1080	Cam Follower Roller Set; 0.550 Roller Width, OEM # 8923814
		187-1081	Cam Follower Assy., OEM # 8924439
Injector Tubes and Components		240-1012	Copper Material, Injector Tube, Thin Nose, OEM # 8925606, 5199527
		240-1013	Copper Material, Injector Tube, Thick Nose, OEM # 5150041, 8925981
		240-1013R	Viton Material, O-Ring, Black, OEM # 5160037, 5104701
		240-1016	Steel Material, Water Director, OEM # 5119293

4 220 C.I., (3.6L), 220B, Diesel, OHV, 8 Valve, ""Bedford TURBO""

220B

L4 220 CID

BORE - 103.2mm/4.063"

PART		PART NO.	NOTES
Guide	Int	140-7563	0.3435 I.D., 2.835 Length, 0.6270 O.D.
	Exh	140-7564	0.3435 I.D., 2.563 Length, 0.6268 O.D.

5 259 C.I., (4.3L), MBE904, Diesel, OHV, 12 Valve, ""TURBO""

MBE904

L4 259 CID

BORE - 102.0mm/4.015"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1382E-2	1.382 O.D., 1.102T I.D., 0.3012 Depth, OEM # DDEA9060530131
	Exh	SB1587E-1	1.587 O.D., 1.220R I.D., 0.3150 Depth, OEM # DDEA9060530132, DDEA9060531232
Valve	Int	13360	1.339 Head Diameter, OEM # DDEA9060500326
	Exh	13361	1.496 Head Diameter, OEM # DDEA9060500327

(Cont'd) DETROIT DIESEL / HEAVY DUTY**259 C.I., (4.3L), MBE904, Diesel, OHV, 12 Valve, ""TURBO""**
L4 259 CID**MBE904 5**
BORE - 102.0mm/4.015"" (cont.)

PART		PART NO.	NOTES
Keeper	Both	121-1132	1 RD Bead Type,OEM # DDEA1020530026
Stem Seal	Both	122-1462	Positive Type,Viton Material,Metal Clad Style,OEM # DDEA9060530358
Guide	Both	140-3176	0.3150 I.D.,2.362 Length,0.5527 O.D.,OEM # DDEA9060530130
Spring	Int	160-1643	1.961 Length,OEM # DDEA9060530120
Injector Tubes and Components		240-1047	Stainless Steel Material,Injector Tube,OEM # DDEA9060170488
		240-1047R	Viton Material,O-Ring, Silver,OEM # DDEA5419970345

284 C.I., (4.7L), 71 Series, Diesel. OHV, 4 Valve Head 2, 3, 4, 6, 8, 12, & 16 Cylinder

L 284 CID

71_4V
BORE - 104.78mm/4.125""**6**

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1262E-1	1.262 O.D.,0.975T I.D.,¼ Depth,+5, +10, +20, +30, +40 & +62 O/S Available,OEM # 5101101, Non-Magnetic
		SB1262E-1+010	1.272 O.D.,0.975T I.D.,¼ Depth,OEM # 5197167
		SB1262E-1+020	1.282 O.D.,0.975T I.D.,¼ Depth,OEM # 5197168
		SB1262E-1+030	1.292 O.D.,0.975T I.D.,¼ Depth,OEM # 5197170
Valve	Exh	01429S	1.180 Head Diameter,Inconel, Stellite Face,OEM # 5149386, Turbo-Intercooled Marine & Off Highway, With ""J6"" In Head
		01500	1.180 Head Diameter,Recommended OEM Nickel Base Inconel Material,Naturally Aspirated & Turbo, With Letter "" U "" In Head, OEM # 5195167
		21500	1.180 Head Diameter,Alternative Austenitic Material,Naturally Aspirated & Turbo
Keeper	Exh	121-1011	1 SQ Bead Type,OEM # 5111337
Stem Seal	Exh	122-1189	Positive Type,Teflon Material,All Teflon Style
		122-1223	Positive Type,Teflon Material,Metal Clad Style,OEM Style, # 8921209
Guide	Exh	140-1832	0.3130 I.D.,2.500 Length,0.5000 O.D.,+2 O/S Available
		140-1946	0.3130 I.D.,2.380 Length,0.4998 O.D.,OEM # 5129919, W/ Step For Stem Seal; +2, +3, +5 & +10 O/S Available
Spring	Exh	160-1186	1.970 Length,OEM # 5117561, 5147347, 8927794
Rocker Components		187-1079	Valve Roller & Pin Set; 0.343 Roller Width,OEM # 8923813
		187-1081	Cam Follower Assy.,OEM # 8924439
		187-1080	Cam Follower Roller Set; 0.550 Roller Width,OEM # 8923814; NOTE: Replacement Pin & Roller For 187-1081 (8924439)
Injector Tubes and Components		240-1012	Copper Material,Injector Tube, Thin Nose,OEM # 8925606, 5199527
		240-1013	Copper Material,Injector Tube, Thick Nose,OEM # 5150041, 8925981
		240-1013R	Viton Material,O-Ring, Black,OEM # 5160037, 5104701
		240-1015	Copper Material,Water Director,OEM # 5111332

292 C.I., (4.8L), MBE924, Diesel, OHV, 12 Valve, ""TURBO""
L4 292 CID**MBE924 7**
BORE - 106.0mm/4.173""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1382E-2	1.382 O.D.,1.102T I.D.,0.3012 Depth,OEM # DDEA9060530131
	Exh	SB1587E-1	1.587 O.D.,1.220R I.D.,0.3150 Depth,OEM # DDEA9060530132, DDEA9060531232
Valve	Int	13360	1.339 Head Diameter,OEM # DDEA9060500326
	Exh	13361	1.496 Head Diameter,OEM # DDEA9060500327
Keeper	Both	121-1132	1 RD Bead Type,OEM # DDEA1020530026
Stem Seal	Both	122-1462	Positive Type,Viton Material,Metal Clad Style,OEM # DDEA9060530358

DETROIT DIESEL / HEAVY DUTY (Cont'd)

7 292 C.I., (4.8L), MBE924, Diesel, OHV, 12 Valve, ""TURBO"" MBE924
 (cont.) L4 292 CID BORE - 106.0mm/4.173""

PART		PART NO.	NOTES
Guide	Both	140-3176	0.3150 I.D.,2.362 Length,0.5527 O.D.,OEM # DDEA9060530130
Spring	Int	160-1643	1.961 Length,OEM # DDEA9060530120
Injector Tubes and Components		240-1047	Stainless Steel Material,Injector Tube,OEM # DDEA9060170488
		240-1047R	Viton Material,O-Ring, Silver,OEM # DDEA5419970345

8 389 C.I., (6.4L), MBE906, Diesel, OHV, 18 Valve, ""TURBO"" MBE906
 L6 389 CID BORE - 102.0mm/4.015""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1382E-2	1.382 O.D.,1.102T I.D.,0.3012 Depth,OEM # DDEA9060530131
	Exh	SB1587E-1	1.587 O.D.,1.220R I.D.,0.3150 Depth,OEM # DDEA9060530132, DDEA9060531232
Valve	Int	13360	1.339 Head Diameter,OEM # DDEA9060500326
	Exh	13361	1.496 Head Diameter,OEM # DDEA9060500327
Keeper	Both	121-1132	1 RD Bead Type,OEM # DDEA1020530026
Stem Seal	Both	122-1462	Positive Type,Viton Material,Metal Clad Style,OEM # DDEA9060530358
Guide	Both	140-3176	0.3150 I.D.,2.362 Length,0.5527 O.D.,OEM # DDEA9060530130
Spring	Int	160-1643	1.961 Length,OEM # DDEA9060530120
Injector Tubes and Components		240-1047	Stainless Steel Material,Injector Tube,OEM # DDEA9060170488
		240-1047R	Viton Material,O-Ring, Silver,OEM # DDEA5419970345

9 439 C.I., (7.2L), MBE926, Diesel, OHV, 18 Valve, ""TURBO"" MBE926
 L6 439 CID BORE - 106.0mm/4.173""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1382E-2	1.382 O.D.,1.102T I.D.,0.3012 Depth,OEM # DDEA9060530131
	Exh	SB1587E-1	1.587 O.D.,1.220R I.D.,0.3150 Depth,OEM # DDEA9060530132, DDEA9060531232
Valve	Int	13360	1.339 Head Diameter,OEM # DDEA9060500326
	Exh	13361	1.496 Head Diameter,OEM # DDEA9060500327
Keeper	Both	121-1132	1 RD Bead Type,OEM # DDEA1020530026
Stem Seal	Both	122-1462	Positive Type,Viton Material,Metal Clad Style,OEM # DDEA9060530358
Guide	Both	140-3176	0.3150 I.D.,2.362 Length,0.5527 O.D.,OEM # DDEA9060530130
Spring	Int	160-1643	1.961 Length,OEM # DDEA9060530120
Injector Tubes and Components		240-1047	Stainless Steel Material,Injector Tube,OEM # DDEA9060170488
		240-1047R	Viton Material,O-Ring, Silver,OEM # DDEA5419970345

10 501 C.I., (8.2L), 8.2L, Diesel, OHV, 16 Valve, ""N/A & TURBO"" 8.2
 V8 501 CID BORE - 107.95mm/4.250""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1937-12	1 ¹⁵ / ₁₆ O.D.,1.578T I.D.,0.2030 Depth,Repair Seat
	Exh	SB1750-12	1 ³ / ₄ O.D.,1.438T I.D.,0.2030 Depth,Repair Seat, Non-Magnetic Star Series Material
Valve	Int	01456	1.811 Head Diameter,OEM #'s, 5149743 & 23502068
	Exh	01455	1.665 Head Diameter,OEM #'s, 5149742 & 23502067
Keeper	Both	121-1003	1 SQ Bead Type,OEM # 23507238
Stem Seal	Both	122-1221	Positive Type,Teflon Material,Metal Clad Style,OEM # 23500480
Guide	Both	140-7552	0.3440 I.D.,2.875 Length,0.5640 O.D.

(Cont'd) DETROIT DIESEL / HEAVY DUTY**501 C.I., (8.2L), 8.2L, Diesel, OHV, 16 Valve, ""N/A & TURBO""**
V8 501 CID**8.2 10**
BORE - 107.95mm/4.250"" (cont.)

PART		PART NO.	NOTES
Spring	Both	160-1194	2.190 Length,Barrel Shaped,OEM # 8927857
Rocker Components		187-1079	Valve Roller & Pin Set; 0.343 Roller Width,OEM # 8923813
		187-1080	Cam Follower Roller Set; 0.550 Roller Width,OEM # 8923814
Injector Tubes and Components		240-1018	Copper Material,Injector Tube,OEM # 8920404, 5149724
		240-1018R	Viton Material,O-Ring, Black,OEM # 8920390

519 C.I., (8.5L), 50 Series, Diesel, SOHC, 16 Valve, ""TURBO""
L4 519 CID**519 11**
BORE - 130mm/5.118""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1819E-1	1.819 O.D.,1.571 I.D.,0.2830 Depth,+5, +10 & +20 O/S Available,Except CNG, OEM # 8929127
	Exh	SB1628E-3	1.628 O.D.,1.357T I.D.,0.2490 Depth,+10, +20 & +30 O/S Available,Except CNG, OEM # 8929126
		SB1628E-3SA	1.628 O.D.,1.357 I.D.,0.2490 Depth, ""Special Alloy"" NOTE: W/ Straight I.D., Can Be Used In CNG & Marine Applications with 20 Degree Or 30 Degree Valves
		SB1628E-3T	1.628 O.D.,1.357T I.D.,0.2700 Depth,NOTE: Optional; Same as SB1628E-3 Except 0.021 Thicker
Valve	Int	13000	1.732 Head Diameter,Except CNG, OEM # 23529629
	Exh	13083S	1.732 Head Diameter,Inconel, Stellite Face,Except CNG, OEM # 23529004
		13001	1.556 Head Diameter,Inconel,Except CNG, OEM # 23529596
Keeper	Both	121-1080	1 RD Bead Type,OEM # 8929573
Stem Seal	Both	122-1242	Positive Type,Viton Material,Metal Clad Style,Except CNG, OEM # 23523930
Guide	Both	140-8591	0.3453 I.D.,4.006 Length,0.5635 O.D.,NOTE: Guide Bore Reaming Is Recommended Prior To Installation.,Except CNG, OEM # 23518571, 23533552, Cast Iron; +5 & +10 Oversized O.D. Also Available
Spring	Both	160-1418	2.910 Length,OEM # 8929415
Rotator	Both	161-1039	OEM # 8929105
Injector Tubes and Components		240-1017	Copper Material,Injector Tube,OEM # 8929078, 23501580
		240-1017R	Viton Material,O-Ring, Green,OEM # 23515470
		240-1028	Copper Material,Injector Tube,Thick Nose

677 C.I., (11.1L), 60 Series, Diesel, SOHC, 24 Valve, ""TURBO""
L6 677 CID**677 12**
BORE - 130mm/5.118""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1819E-1	1.819 O.D.,1.571 I.D.,0.2830 Depth,+5, +10 & +20 O/S Available,OEM # 8929127
	Exh	SB1628E-3	1.628 O.D.,1.357T I.D.,0.2490 Depth,+10, +20 & +30 O/S Available,OEM # 8929126
		SB1628E-3SA	1.628 O.D.,1.357 I.D.,0.2490 Depth, ""Special Alloy"" NOTE: W/ Straight I.D., Can Be Used In CNG & Marine Applications with 20 Degree Or 30 Degree Valves
		SB1628E-3T	1.628 O.D.,1.357T I.D.,0.2700 Depth,NOTE: Optional; Same as SB1628E-3 Except 0.021 Thicker
Valve	Int	01567	1.732 Head Diameter,OEM # 8929589
		13000	1.732 Head Diameter,OEM # 23529629
		13083S	1.732 Head Diameter,Inconel, Stellite Face,OEM # 23529004; Marine
	Exh	01566	1.556 Head Diameter,OEM # 8929590, Also Replaces Valve For Eng. W/ Letter ""H"" or ""U"" In Head
		13001	1.556 Head Diameter,Inconel,OEM # 23529596

DETROIT DIESEL / HEAVY DUTY (Cont'd)

12 677 C.I., (11.1L), 60 Series, Diesel, SOHC, 24 Valve, ""TURBO"" 677
 (cont.) L6 677 CID BORE - 130mm/5.118""

PART		PART NO.	NOTES
Valve	Exh	13001S	1.556 Head Diameter, Inconel, Stellite Face, OEM # 23525179, Marine; NOTE: Services Valve With "" E5 "" Stamped In Head
Keeper	Both	121-1080	1 RD Bead Type, OEM # 8929573
Stem Seal	Both	122-1242	Positive Type, Viton Material, Metal Clad Style, OEM # 8929072
Guide	Both	140-8591	0.3453 I.D., 4.006 Length, 0.5635 O.D., NOTE: Guide Bore Reaming Is Recommended Prior To Installation., OEM # 23518571, 23533552, Cast Iron; +5 & +10 Oversized O.D. Also Available
Spring	Both	160-1418	2.910 Length, OEM # 23535296
Rotator	Both	161-1039	OEM # 8929105
Injector Tubes and Components		240-1017	Copper Material, Injector Tube, OEM # 8929078, 23501580
		240-1017R	Viton Material, O-Ring, Green, OEM # 23515470
		240-1028	Copper Material, Injector Tube, Thick Nose

13 775 C.I., (12.7L), 60 Series, Diesel, SOHC, 24 Valve, ""TURBO"" 775
 L6 775 CID BORE - 130mm/5.118""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1819E-1	1.819 O.D., 1.571 I.D., 0.2830 Depth, +5, +10 & +20 O/S Available, OEM # 8929127
	Exh	SB1628E-3	1.628 O.D., 1.357T I.D., 0.2490 Depth, +10, +20 & +30 O/S Available, OEM # 8929126
		SB1628E-3SA	1.628 O.D., 1.357 I.D., 0.2490 Depth, ""Special Alloy"" NOTE: W/ Straight I.D., Can Be Used In CNG & Marine Applications with 20 Degree Or 30 Degree Valves
		SB1628E-3T	1.628 O.D., 1.357T I.D., 0.2700 Depth, NOTE: Optional; Same as SB1628E-3 Except 0.021 Thicker
Valve	Int	01567	1.732 Head Diameter, OEM # 8929589, W/O EGR
		13000	1.732 Head Diameter, OEM # 23529629, From 2003 W/EGR
		13083S	1.732 Head Diameter, Inconel, Stellite Face, OEM # 23529004; Marine
	Exh	01566	1.556 Head Diameter, OEM # 8929590, Also Replaces Valve For Eng. W/ Letter ""H"" or ""U"" In Head W/O EGR
		13001	1.556 Head Diameter, Inconel, OEM # 23529596, From 2003 W/EGR
	13001S	1.556 Head Diameter, Inconel, Stellite Face, OEM # 23525179, Marine; NOTE: Services Valve With "" E5 "" Stamped In Head	
Keeper	Both	121-1080	1 RD Bead Type, OEM # 8929573
Stem Seal	Both	122-1242	Positive Type, Viton Material, Metal Clad Style, OEM # 23523930
Guide	Both	140-8591	0.3453 I.D., 4.006 Length, 0.5635 O.D., NOTE: Guide Bore Reaming Is Recommended Prior To Installation., OEM # 23518571, 23533552, Cast Iron; +5 & +10 Oversized O.D. Also Available
Spring	Both	160-1418	2.910 Length, OEM #'s 8929415, 23535296
Rotator	Both	161-1039	OEM # 8929105
Injector Tubes and Components		240-1017	Copper Material, Injector Tube, OEM # 8929078, 23501580
		240-1017R	Viton Material, O-Ring, Green, OEM # 23515470
		240-1028	Copper Material, Injector Tube, Thick Nose

14 781 C.I., (12.8L), DD13, Diesel, DOHC, 24 Valve, ""TURBO"" DD13
 L6 781 CID BORE - 132.0mm/5.197""

PART		PART NO.	NOTES
Valve	Int	13381	1.780 Head Diameter, Inconel, OEM # A4710500426
	Exh	13382	1.697 Head Diameter, Inconel, OEM # A4710500527
Keeper	Both	121-1073	1 RD Bead Type, OEM # A4720530026

(Cont'd) DETROIT DIESEL / HEAVY DUTY**781 C.I., (12.8L), DD13, Diesel, DOHC, 24 Valve, ""TURBO""****DD13 14**

L6 781 CID

BORE - 132.0mm/5.197"" (cont.)

PART		PART NO.	NOTES
Stem Seal	Both	122-1461	Positive Type,Viton Material,Metal Clad Style,OEM # A4700530158, A4720530558
Guide	Both	140-3178	0.3740 I.D.,3.860 Length,0.5920 O.D.
Spring	Int Exh	160-1636 160-1637	3.930 Length,OEM # A4720530420, NOTE: W/ Pink & Blue Stripe 3.860 Length,OEM # A4720530520, NOTE: W/ Pink & Yellow Stripe
Injector Tubes and Components		240-1051	Stainless Steel Material,Injector Tube,OEM # A4720780273
		240-1051R	Viton Material,O-Ring, Silver,OEM # A0269978245, A0249976445

858 C.I., (14.0L), 60 Series, Diesel, SOHC, 24 Valve, ""TURBO""**858 15**

L6 858 CID

BORE - 133mm/5.236""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1819E-1	1.819 O.D.,1.571 I.D.,0.2830 Depth,+5, +10 & +20 O/S Available,OEM # 8929127
	Exh	SB1628E-3	1.628 O.D.,1.357T I.D.,0.2490 Depth,+10, +20 & +30 O/S Available,OEM # 8929126
		SB1628E-3SA	1.628 O.D.,1.357 I.D.,0.2490 Depth, ""Special Alloy"" NOTE: W/ Straight I.D., Can Be Used In CNG & Marine Applications with 20 Degree Or 30 Degree Valves
		SB1628E-3T	1.628 O.D.,1.357T I.D.,0.2700 Depth,NOTE: Optional; Same as SB1628E-3 Except 0.021 Thicker
Valve	Int	01567	1.732 Head Diameter,OEM # 8929589, W/O EGR
		13000	1.732 Head Diameter,OEM # 23529629, From 2003 W/EGR
		13083S	1.732 Head Diameter,Inconel, Stellite Face,OEM # 23529004; Marine
	Exh	01566	1.556 Head Diameter,OEM # 8929590, Also Replaces Valve For Eng. W/ Letter ""H"" or ""U"" In Head, W/O EGR; Except Marine
		13001	1.556 Head Diameter,Inconel,OEM # 23529596, From 2003 W/EGR; Except Marine
	13001S	1.556 Head Diameter,Inconel, Stellite Face,OEM # 23525179, Marine; NOTE: Services Valve With "" E5 "" Stamped In Head	
Keeper	Both	121-1080	1 RD Bead Type,OEM # 8929573
Stem Seal	Both	122-1242	Positive Type,Viton Material,Metal Clad Style,OEM #'s 8929072, 23523930
Guide	Both	140-8591	0.3453 I.D.,4.006 Length,0.5635 O.D.,NOTE: Guide Bore Reaming Is Recommended Prior To Installation.,OEM # 23518571, 23533552, Cast Iron; +5 & +10 Oversized O.D. Also Available
Spring	Int	160-1418	2.910 Length,OEM #'s 8929415, 23535296
	Exh	160-1486	3.262 Length,OEM # 23535122
Rotator	Both	161-1039	OEM # 8929105
Injector Tubes and Components		240-1017	Copper Material,Injector Tube,OEM # 8929078, 23501580
		240-1017R	Viton Material,O-Ring, Green,OEM # 23515470
		240-1028	Copper Material,Injector Tube,Thick Nose
		240-1035	Stainless Steel Material,Injector Tube,OEM # 23533148; NOTE: Early; Threaded Stainless Steel W/ 1.245 Upper O.D. and W/1.160"" Lower Diameter
		240-1035R	Aflas Material,O-Ring, Brown,OEM # 23533147; NOTE: Use With Threaded Stainless Steel Tube 240-1035 & 240-1039
		240-1035SH+007	Stainless Steel Material,0.007 Thick Injector Tube Shim,OEM # 23536862; NOTE: Can Be Used With All Threaded Stainless Steel Tubes
		240-1035SH+012	Stainless Steel Material,0.012 Thick Injector Tube Shim,OEM # 23536863; NOTE: Can Be Used With All Threaded Stainless Steel Tubes
	240-1035SH+018	Stainless Steel Material,0.018 Thick Injector Tube Shim,OEM # 23536864; NOTE: Can Be Used With All Threaded Stainless Steel Tubes	

DETROIT DIESEL / HEAVY DUTY (Cont'd)

15 858 C.I., (14.0L), 60 Series, Diesel, SOHC, 24 Valve, ""TURBO"" 858
 (cont.) L6 858 CID BORE - 133mm/5.236""

PART	PART NO.	NOTES
Injector Tubes and Components	240-1039	Stainless Steel Material,Injector Tube,OEM # 23538840; NOTE: Late Style For Improved Cooling Threaded Stainless Steel W/1.245 and W/1.080" Lower Diameter
	240-1045	Stainless Steel Material,Injector Tube,OEM # 23534745; NOTE: Threaded Stainless Steel W/1.375 Upper O.D. & 1.010 Lower O.D.; Replaces Early 23538829 W/1.375 & W/1.160 Lower O.D.
	240-1045R	Aflas Material,O-Ring, Blue,OEM # 23537743; NOTE: Use With Threaded Stainless Steel Tube W/1.375 Upper O.D. 240-1045

16 906 C.I., (14.8L), DD15, Diesel, DOHC, 24 Valve, ""TURBO"" DD15
 L6 906 CID BORE - 139.0mm/5.472""

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1934E-1	1.934 O.D.,1.562 I.D.,0.3100 Depth
	Exh SB1856E-2	1.856 O.D.,1.325T I.D.,0.3100 Depth
Valve	Int 13354	1.856 Head Diameter,Inconel,OEM # A4730500126
	Exh 13355S	1.778 Head Diameter,Inconel, Stellite Face,OEM # A4730500127
Keeper	Both 121-1073	1 RD Bead Type,OEM # A4720530026
Stem Seal	Both 122-1461	Positive Type,Viton Material,Metal Clad Style,OEM # A4700530158, A4720530558
Guide	Both 140-3178	0.3740 I.D.,3.860 Length,0.5920 O.D.
Spring	Int 160-1636	3.930 Length,OEM # A4720530420, NOTE: W/ Pink & Blue Stripe
	160-1678	4.010 Length,OEM # A4720530020, NOTE: W/Pink & Green & White Stripe
	Exh 160-1637	3.860 Length,OEM # A4720530520, NOTE: W/ Pink & Yellow Stripe
	160-1679	4.220 Length,OEM # A4720530220, NOTE: W/ Pink & Orange Stripe
Injector Tubes and Components	240-1051	Stainless Steel Material,Injector Tube,OEM # A4720780273
	240-1051R	Viton Material,O-Ring, Silver,OEM # A0269978245, A0249976445

17 952 C.I., (15.6L), DD16, Diesel, DOHC, 24 Valve, ""TURBO"" DD16
 L6 952 CID BORE - 139.0mm/5.472""

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1934E-1	1.934 O.D.,1.562 I.D.,0.3100 Depth
	Exh SB1856E-2	1.856 O.D.,1.325T I.D.,0.3100 Depth
Valve	Int 13354	1.856 Head Diameter,Inconel,OEM # A4730500126
	Exh 13355S	1.778 Head Diameter,Inconel, Stellite Face,OEM # A4730500127
Keeper	Both 121-1073	1 RD Bead Type,OEM # A4720530026
Stem Seal	Both 122-1461	Positive Type,Viton Material,Metal Clad Style,OEM # A4700530158, A4720530558
Guide	Both 140-3178	0.3740 I.D.,3.860 Length,0.5920 O.D.
Spring	Int 160-1636	3.930 Length,OEM # A4720530420, NOTE: W/ Pink & Blue Stripe
	Exh 160-1637	3.860 Length,OEM # A4720530520, NOTE: W/ Pink & Yellow Stripe
Injector Tubes and Components	240-1051	Stainless Steel Material,Injector Tube,OEM # A4720780273
	240-1051R	Viton Material,O-Ring, Silver,OEM # A0269978245, A0249976445

18 1104 C.I., (18.1L), 92 Series, Diesel, OHV, 4 Valve Head 6, 8, 12 & 16 Cylinder V92
 L 1104 CID BORE - 122.94mm/4.84""

PART	PART NO.	NOTES
Valve Seat Insert	Exh SB1442E-1	1.442 O.D.,1-9/64T I.D.,¼ Depth,+5, +20, +30, +40, +63 O/S Available,OEM # 5148490
	SB1442E-1+020	1.462 O.D.,1-9/64T I.D.,¼ Depth,OEM # 5148493
	SB1442E-1+030	1.472 O.D.,1-9/64T I.D.,¼ Depth,OEM # 5148494

(Cont'd) **DETROIT DIESEL / HEAVY DUTY**

1104 C.I., (18.1L), 92 Series, Diesel, OHV, 4 Valve Head 6, 8, 12 & 16 Cylinder V92 **18**
L 1104 CID BORE - 122.94mm/4.84" (cont.)

PART		PART NO.	NOTES
Valve	Exh	01366 21366	1.380 Head Diameter,Recommended OEM Nickel Base Inconel Material,OEM # 5149771, Turbo & Non-Turbo 1.380 Head Diameter,Alternative Austenitic Material,Turbo & Non-Turbo
Keeper	Exh	121-1011	1 SQ Bead Type,OEM # 5111337
Stem Seal	Exh	122-1189 122-1223	Positive Type,Teflon Material,All Teflon Style Positive Type,Teflon Material,Metal Clad Style,OEM Style, # 8921209
Guide	Exh	140-1946	0.3130 I.D.,2.380 Length,0.4998 O.D.,OEM # 5129919, +2, +3, +5 & +10 O/S Available
Spring	Exh	160-1186	1.970 Length,OEM # 5117561, 5147347, 8927794
Rocker Components		187-1069 187-1079 187-1080 187-1081	Spring,OEM # 5108918 Valve Roller & Pin Set; 0.343 Roller Width,OEM # 8923813 Cam Follower Roller Set; 0.550 Roller Width,OEM # 8923814 Cam Follower Assy.,OEM # 8924439
Injector Tubes and Components		240-1012 240-1013 240-1013R 240-1014	Copper Material,Injector Tube, Thin Nose,OEM # 8925606, 5199527 Copper Material,Injector Tube, Thick Nose,OEM # 5150041, 8925981 Viton Material,O-Ring, Black,OEM # 5160037, 5104701 Copper Material,Water Director,OEM # 8922388

2384 C.I., (39.1L), 16V-149 Series, Diesel, DOHC, 64 Valve, ""TURBO"" 16V-149 **19**
L16 2384 CID BORE - 145.9mm/5.744"

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1899E-1	1.898 O.D.,1 ¹⁷ / ₃₂ T I.D.,0.2750 Depth,OEM # 5139982
Guide	Exh	140-6546 140-8133	0.3755 I.D.,3.150 Length,0.7100 O.D.,Tapered End,OEM # 5138653 0.3755 I.D.,3.150 Length,0.7100 O.D.,OEM # 23505104, Knurled End

FIAT / PASSENGER CAR

Engine	Models	Line No.
4 Cylinder		
1368cc, (1.4L), SOHC, GAS, FI, 16 Valve, EAB, ""Multiair"" (2012-17)	500	1
1368cc, (1.4L), SOHC, GAS, FI, 16 Valve, EAF, ""Multiair TURBO"" (2012-17)	500	2
1368cc, (1.4L), SOHC, GAS, FI, 16 Valve, Vin H, K, EAM, ""Multiair TURBO"" (2014-20)	124 Spider, 500, 500L, 500X	3
2360cc, (2.4L), SOHC, GAS, FI, 16 Valve, Vin B, T, ED6, ED8, ""Tigershark"" (2016-18)	500X	4

1368cc, (1.4L), SOHC, GAS, FI, 16 Valve, EAB, ""Multiair"" FT1.4-EAB **1**
2012-17 L4 83 CID BORE - 71.9mm/2.83"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2012-17 121-1098	3 RD Bead Type
Stem Seal	Both	2012-17 122-1363	Positive Type,Viton Material,Metal Clad Style

1368cc, (1.4L), SOHC, GAS, FI, 16 Valve, EAF, ""Multiair TURBO"" FT1.4-EAF **2**
2012-17 L4 83 CID BORE - 72mm/2.83"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2012-17 121-1098	3 RD Bead Type
Stem Seal	Both	2012-17 122-1363	Positive Type,Viton Material,Metal Clad Style

FIAT / PASSENGER CAR (Cont'd)

3 1368cc, (1.4L), SOHC, GAS, FI, 16 Valve, Vin H, K, EAM, ""Multiair TURBO"" FT1.4-EAM
2014-20 L4 83 CID BORE - 72mm/2.83""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2014-20	121-1098	3 RD Bead Type
Stem Seal	Both	2014-20	122-1363	Positive Type,Viton Material,Metal Clad Style

4 2360cc, (2.4L), SOHC, GAS, FI, 16 Valve, Vin B, T, ED6, ED8,
""Tigershark"" FT2.4-ED6_8
2016-18 L4 144 CID BORE - 88mm/3.46""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2016-18	13401	1.417 Head Diameter
	Exh	2016-18	13402	1.142 Head Diameter
Keeper	Both	2016-18	121-1140	3 RD Bead Type
Stem Seal	Both	2016-18	122-1467	Positive Type,Viton Material,Top Hat Style
Spring	Int	2016-18	160-1681	1.680 Length,W/ Orange Stripe
	Exh	2016-18	160-1682	1.834 Length
Lifter	Both	2016-18	VL561	Hydraulic Lash Adjuster Type

FORD / INDUSTRIAL

Engine	Models	Line No.
4 Cylinder		
134 C.I., (2.2L), 134G, Gas, OHV, 8 Valve, ""1953-78""	E, E134, JE, B8PE	1
172 C.I., (2.8L), 172D, Diesel, OHV, 8 Valve, ""1958-78""	B, DD	2
172 C.I., (2.8L), 172G, Gas, OHV, 8 Valve, ""1955-78""	B8PD, D, JD, JD-5, 172GF	3
192 C.I., (3.1L), 192D, Diesel, OHV, 8 Valve, ""1972-78""		4
192 C.I., (3.1L), 192G, Gas, OHV, 8 Valve, ""1972-78""		5
6 Cylinder		
200 C.I., (3.3L), FOI200, Gas, OHV, 12 Valve		6
200 C.I., (3.3L), 200GP, Gas, OHV, 12 Valve		7
223 C.I., (3.7L), FOI223, Gas, OHV, 12 Valve		8
240 C.I., (3.9L), C5PF, Gas, OHV, 12 Valve, ""1965-73""	C5PF	9
262 C.I., (4.3L), FOI262, Gas, OHV, 12 Valve		10
300 C.I., (4.9L), C5PG/300G, Gas, OHV, 12 Valve, ""1965-96 Light Duty""	C5PG, 300GF	14
8 Cylinder		
292 C.I., (4.8L), FOI292, Gas, OHV, 16 Valve, ""1958-63""		11
292 C.I., (4.8L), B8PK, Gas, OHV, 16 Valve		12
292 C.I., (4.8L), K292, Gas, OHV, 16 Valve, ""1958-63""		13
330 C.I., (5.4L), C4PA, Gas, OHV, 16 Valve, ""1964-79 Heavy Duty""	C4PA	15
330 C.I., (5.4L), C4PD/C5PD, Gas, OHV, 16 Valve, ""1964-69 Medium Duty""	C4PD, C5PD	16
330 C.I., (5.4L), 330GF, Gas, OHV, 16 Valve, ""1970-76""	330GF	17
332 C.I., (5.4L), B6PL, Gas, OHV, 16 Valve		18
361 C.I., (5.9L), C4PB, Gas, OHV, 16 Valve, ""1964-76""	C4PB	19
391 C.I., (6.4L), C4PC, Gas, OHV, 16 Valve, ""1964-76""	C4PC	20
401 C.I., (6.6L), B8PQ, Gas, OHV, 16 Valve, ""1958-70""	401, B8PQ, Q	21
428 C.I., (7.0L), FOI428, Gas, OHV, 16 Valve		22

(Cont'd) FORD / INDUSTRIAL

Engine	Models	Line No.
8 Cylinder		
460 C.I., (7.5L), 460L/S/G, Gas, OHV, 16 Valve, ""1976-94""	460L, S, G, 875 R	23
477 C.I., (7.8L), B8PM/M, Gas, OHV, 16 Valve, ""1958-70""	B8PM, M	24
534 C.I., (8.7L), B8PN/N, Gas, OHV, 16 Valve, ""1958-70""	B8PN, N	25

134 C.I., (2.2L), 134G, Gas, OHV, 8 Valve, ""1953-78"" **FOI134 1**
L4 134 CID **BORE - 87.3mm/3.40""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-11+006	1.636 O.D., 1 ¹¹ / ₃₂ I.D., 7/32 Depth
Valve	Int	00376	1.647 Head Diameter, OEM # EBU7507A
	Exh	00348	1.510 Head Diameter, OEM # EAF6505D, Rototype
Keeper	Int	121-1003	1 SQ Bead Type, OEM # 7HA6518
	Exh	121-1065	No Bead Bead Type, Tapered Groove, OEM # EAM6518A
Stem Seal	Both	122-1032	Umbrella Type, Poly Material, Umbrella Style, OEM # C3AE6571B
Guide	Both	140-1726	0.3437 I.D., 2.470 Length, 0.7515 O.D., OEM # EAF6510C
Spring	Int	160-1120	2.222 Length, OEM # EAA6513A, W/O Rotator
Lifter	Both	VL21	Mechanical Type, OEM # EAA6500D

172 C.I., (2.8L), 172D, Diesel, OHV, 8 Valve, ""1958-78"" **FOI172D 2**
L4 172 CID **BORE - 99.06mm/3.9""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-11+006	1.636 O.D., 1 ¹¹ / ₃₂ I.D., 7/32 Depth
Valve	Int	00609	1.647 Head Diameter, OEM # 310650
	Exh	00608	1.510 Head Diameter, OEM # 310651
Keeper	Int	121-1003	1 SQ Bead Type, OEM # 7HA6518
	Exh	121-1065	No Bead Bead Type, Tapered Groove, OEM # EAM6518A
Stem Seal	Int	122-1041	Umbrella Type, Poly Material, Umbrella Style
Guide	Int	140-1966	0.3440 I.D., 2.938 Length, 0.7513 O.D., OEM # 311411
	Exh	140-1726	0.3437 I.D., 2.470 Length, 0.7515 O.D., OEM # EAF6510C
Spring	Both	160-1120	2.222 Length, OEM # EAA6513A, W/O Rotator
Lifter	Both	VL21	Mechanical Type, OEM # EAA6500D
Push Rod	Both	190-1222	9.602 Length

172 C.I., (2.8L), 172G, Gas, OHV, 8 Valve, ""1955-78"" **FOI172G 3**
L4 172 CID **BORE - 99.06mm/3.9""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-11+006	1.636 O.D., 1 ¹¹ / ₃₂ I.D., 7/32 Depth
Valve	Int	00376	1.647 Head Diameter, OEM # EBU6507A
	Exh	00348	1.510 Head Diameter, OEM # EAF6505D
Keeper	Int	121-1003	1 SQ Bead Type, OEM # 7HA6518
	Exh	121-1065	No Bead Bead Type, Tapered Groove, OEM # EAM6518A
Stem Seal	Int	122-1041	Umbrella Type, Poly Material, Umbrella Style
	Both	122-1032	Umbrella Type, Poly Material, Umbrella Style, OEM # C3AE6571B
Guide	Both	140-1726	0.3437 I.D., 2.470 Length, 0.7515 O.D., OEM # EAF6510C
Spring	Both	160-1120	2.222 Length, OEM # EAA6513A, W/O Rotator
Lifter	Both	VL21	Mechanical Type, OEM # EAA6500D

FORD / INDUSTRIAL (Cont'd)

3 172 C.I., (2.8L), 172G, Gas, OHV, 8 Valve, ""1955-78"" FOI172G
 (cont.) L4 172 CID BORE - 99.06mm/3.9""

PART	PART NO.	NOTES
Push Rod	Both 190-1222	9.602 Length

4 192 C.I., (3.1L), 192D, Diesel, OHV, 8 Valve, ""1972-78"" FOI192D
 L4 192 CID BORE - 105mm/4.134""

PART	PART NO.	NOTES
Valve Seat Insert	Int Exh SB1812-5 SB1625-1	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material 1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int Exh 00609 00608	1.647 Head Diameter, OEM # 310650 1.510 Head Diameter, OEM # 310651
Keeper	Int Exh 121-1065 121-1003	No Bead Bead Type, Tapered Groove, OEM # EAM6518A 1 SQ Bead Type, OEM # 7HA6518
Stem Seal	Int 122-1041	Umbrella Type, Poly Material, Umbrella Style
Guide	Exh 140-1966	0.3440 I.D., 2.938 Length, 0.7513 O.D., OEM # 311411
Spring	Both 160-1159	2.155 Length, W/ Damper
Lifter	Both VL21	Mechanical Type, OEM # C3AE6500A
Push Rod	Both 190-1222	9.602 Length

5 192 C.I., (3.1L), 192G, Gas, OHV, 8 Valve, ""1972-78"" FOI192G
 L4 192 CID BORE - 105mm/4.134""

PART	PART NO.	NOTES
Valve Seat Insert	Int Exh SB1812-5 SB1625-1	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material 1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int Exh 00376 00348	1.647 Head Diameter, OEM # EBU6507A 1.510 Head Diameter, OEM # EAF6505D
Keeper	Int Exh 121-1003 121-1065	1 SQ Bead Type, OEM # 7HA6518 No Bead Bead Type, Tapered Groove, OEM # EAM6518A
Stem Seal	Int 122-1041	Umbrella Type, Poly Material, Umbrella Style
Guide	Both 140-1726	0.3437 I.D., 2.470 Length, 0.7515 O.D., OEM # EAF6510C
Spring	Both 160-1159 160-1212	2.155 Length, W/ Damper 2.208 Length, OEM # D6NN6513A
Lifter	Both VL21	Mechanical Type, OEM # EAA6500D
Push Rod	Both 190-1222	9.602 Length

6 200 C.I., (3.3L), FOI200, Gas, OHV, 12 Valve FOI200
 L6 200 CID BORE - 93.4mm/3.60""

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1750-2 SB1812-4 Exh SB1437-2	3/4 O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.651 Valve Head Dia. 1 ¹³ / ₁₆ O.D., 1 ⁹ / ₁₆ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.751 Valve Head Dia. 1 ⁷ / ₁₆ O.D., 1 ⁷ / ₃₂ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int 01268 01357 Exh 01266	1.651 Head Diameter, OEM # D2DZ6507E 1.751 Head Diameter, OEM # D7BE6507AA 1.390 Head Diameter, +15 O/S Stem Available
Keeper	Both 121-1011	1 SQ Bead Type, OEM # F4TZ6518A
Stem Seal	Both 122-1009 122-1034	Positive Type, Tef/Rub Material, 1-Ring Style, Machine Guide To 0.500 O.D. Umbrella Type, Poly Material, Umbrella Style

(Cont'd) FORD / INDUSTRIAL**200 C.I., (3.3L), FOI200, Gas, OHV, 12 Valve**
L6 200 CID**FOI200 6**
BORE - 93.4mm/3.60" (cont.)

PART		PART NO.	NOTES
Guide	Both	140-6869	0.3125 I.D.,1.875 Length,0.4390 O.D.,Plain I.D. Conversion Guide
		140-6977	0.3120 I.D.,2.281 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		140-9869	0.3125 I.D.,1.875 Length,0.4390 O.D.,Spiral I.D. Conversion Guide
		140-9977	0.3120 I.D.,2.281 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9977H), -5 U/S I.D. Available (140-9977U)
Spring	Both	160-1131	1.828 Length,W/ Hydraulic Lifters, Exc. 1968-69
Lifter	Both	VL9	Hydraulic Type
Push Rod	Both	190-1327	8.350 Length,-54 U/S Available (190-1327U54),W/ Hyd. Lifters

200 C.I., (3.3L), 200GP, Gas, OHV, 12 Valve
L6 200 CID**FOI200GP 7**
BORE - 93.4mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 $\frac{3}{4}$ O.D.,1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.651 Valve Head Dia.
		SB1812-4	1 $\frac{13}{16}$ O.D.,1 $\frac{9}{16}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.751 Valve Head Dia.
	Exh	SB1437-2	1 $\frac{7}{16}$ O.D.,1 $\frac{7}{32}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	01268	1.651 Head Diameter,OEM # D2DZ6507A
		01357	1.751 Head Diameter,OEM # D7BE6507AA
	Exh	01266	1.390 Head Diameter,+15 O/S Stem Available
Keeper	Both	121-1011	1 SQ Bead Type
Stem Seal	Both	122-1009	Positive Type,Tef/Rub Material,1-Ring Style,Machine Guide To 0.500 O.D.
		122-1034	Umbrella Type,Poly Material,Umbrella Style
Guide	Both	140-6869	0.3125 I.D.,1.875 Length,0.4390 O.D.,Plain I.D. Conversion Guide
		140-6977	0.3120 I.D.,2.281 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		140-9869	0.3125 I.D.,1.875 Length,0.4390 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1131	1.828 Length,W/ Hydraulic Lifters, Exc. 1968-69
Lifter	Both	VL9	Hydraulic Type
Push Rod	Both	190-1327	8.350 Length,-54 U/S Available (190-1327U54),W/ Hyd. Lifters

223 C.I., (3.7L), FOI223, Gas, OHV, 12 Valve
L6 223 CID**FOI223 8**
BORE - 92mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3	1 $\frac{13}{16}$ O.D.,1 $\frac{1}{2}$ T I.D., $\frac{7}{32}$ Depth,(1958-67)
	Exh	SB1630E-1	1.630 O.D.,1.335 I.D.,0.3120 Depth,+5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material,(1958-67)
Valve	Int	00373	1.780 Head Diameter,OEM # EBP6507E
	Exh	00375	1.510 Head Diameter,OEM # EBP6505A
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1041	Umbrella Type,Poly Material,Umbrella Style
		122-1048	Positive Type,Poly Material,2-Ring Style,W/ .341 Stem Dia.; Use W/ Factory Guide Boss
Guide	Both	140-6105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		140-9105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9105U)
Spring	Both	160-1120	2.222 Length,OEM # EAA6513A, W/O Rotator
Lifter	Both	VL21	Mechanical Type
Push Rod	Both	190-1222	9.602 Length

FORD / INDUSTRIAL (Cont'd)

9 240 C.I., (3.9L), C5PF, Gas, OHV, 12 Valve, ""1965-73""
L6 240 CID

FOI240
BORE - 101.6mm/4.00""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	00963	1.781 Head Diameter
		01120	1.780 Head Diameter, H-Duty, +15 O/S Stem Available
	Exh	01177S	1.560 Head Diameter, Stellite Face, Optional
		01358	1.560 Head Diameter, +15 O/S Stem Available
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1035	Umbrella Type, Poly Material, Umbrella Style
		122-1047	Positive Type, Poly Material, 2-Ring Style
Guide	Int	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
	Exh	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Exh	160-1135	1.875 Length, W/ Rotator
	Both	160-1134	1.990 Length, W/O Rotator
Lifter	Both	VL35	Hydraulic Type
Rocker Components	Both	180-1237	Rocker Arm, Cast
		181-1040	Rocker Arm Kit, Includes (1) Cast R. Arm, (1) Smooth Ball, (1) ³ / ₈ Nut, (1) ⁵ / ₁₆ Nut
		184-1038	Nut, ³ / ₈
		183-1020	Grooved Ball, ³ / ₈
		183-1030	Smooth Ball, ³ / ₈
Push Rod	Both	192-1322	10.136 Length, - 40 U/S (192-1322U40) Available

10 262 C.I., (4.3L), FOI262, Gas, OHV, 12 Valve
L6 262 CID

FOI262
BORE - 94.4mm/3.72""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	SB1630E-1	1.630 O.D., 1.335 I.D., 0.3120 Depth, +5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material
Guide	Int	140-9964	0.3730 I.D., 2.625 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9964H)
	Exh	140-7298	0.3730 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		140-9298	0.3729 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Push Rod	Both	190-1222	9.602 Length

11 292 C.I., (4.8L), FOI292, Gas, OHV, 16 Valve, ""1958-63""
V8 292 CID

FOI292
BORE - 95.2mm/3.75""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-3	1 ³ / ₄ O.D., 1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material, (1960-63)
		SB2000-1	2.000 O.D., 1 ³ / ₄ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material, (1958-59)
	Exh	SB1562-2	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ T I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	00376	1.647 Head Diameter, (1960-63)
	Exh	00494	1.925 Head Diameter, (1958-59)
		00375	1.510 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type

(Cont'd) FORD / INDUSTRIAL**292 C.I., (4.8L), FOI292, Gas, OHV, 16 Valve, ""1958-63""**
V8 292 CIDFOI292 **11**
BORE - 95.2mm/3.75"" (cont.)

PART		PART NO.	NOTES
Stem Seal	Both	122-1074	Positive Type, Viton Material, Ring & Band Style
Guide	Int	140-9606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9606U)
	Exh	140-9105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9105U)
Spring	Both	160-1120	2.222 Length, W/O Rotator
Lifter	Both	VL21	Mechanical Type
Push Rod	Both	190-1543	8.122 Length

292 C.I., (4.8L), B8PK, Gas, OHV, 16 Valve
V8 292 CIDFOI_B8PK **12**
BORE - 95.2mm/3.75""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-3	1 $\frac{3}{4}$ O.D., 1 $\frac{7}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Non-Magnetic (N) Material, (1958-63)
	Exh	SB1562-2	1 $\frac{9}{16}$ O.D., 1 $\frac{5}{16}$ I.D., $\frac{1}{4}$ Depth, Also Available In Non-Magnetic (N) Material, (1958-63)
Guide	Int	140-5606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U)
	Exh	140-6105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		140-9105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9105U)

292 C.I., (4.8L), K292, Gas, OHV, 16 Valve, ""1958-63""
V8 292 CIDFOI292_K292 **13**
BORE - 95.2mm/3.75""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-3	1 $\frac{3}{4}$ O.D., 1 $\frac{7}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Non-Magnetic (N) Material, (1960-63)
		SB2000-1	2.000 O.D., 1 $\frac{3}{4}$ I.D., $\frac{7}{32}$ Depth, Also Available In Non-Magnetic (N) Material, (1958-59)
	Exh	SB1562-2	1 $\frac{9}{16}$ O.D., 1 $\frac{5}{16}$ I.D., $\frac{1}{4}$ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	00376	1.647 Head Diameter, (1960-63)
	Exh	00494	1.925 Head Diameter, (1958-59)
		00375	1.510 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1074	Positive Type, Viton Material, Ring & Band Style
Guide	Int	140-5606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U)
		140-9606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9606U)
	Exh	140-6105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		140-9105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9105U)
Spring	Both	160-1120	2.222 Length, W/O Rotator
Lifter	Both	VL21	Mechanical Type

300 C.I., (4.9L), C5PG/300G, Gas, OHV, 12 Valve, ""1965-96 Light Duty""
L6 300 CIDFOI300 **14**
BORE - 101.6mm/4.00""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3	1 $\frac{13}{16}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth
	Exh	SB1687-4N	1 $\frac{11}{16}$ O.D., 1 $\frac{11}{32}$ I.D., $\frac{5}{16}$ Depth, W/ Factory Installed Seat
		SB1687-5N	1 $\frac{11}{16}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth, W/O Factory Installed Seat
Valve	Int	00963	1.781 Head Diameter, 1965-83

FORD / INDUSTRIAL (Cont'd)

14 300 C.I., (4.9L), C5PG/300G, Gas, OHV, 12 Valve, ""1965-96 Light Duty"" FOI300
 (cont.) L6 300 CID BORE - 101.6mm/4.00""

PART		PART NO.	NOTES
Valve	Int	01120	1.780 Head Diameter,1965-83 H-Duty, 1984 To Mid 1996 All, Chrome Plated, +15 O/S Stem Available
		01875	1.780 Head Diameter,From Mid-96
	Exh	01177S	1.560 Head Diameter,Stellite Face,Optional, 4.810 Overall Length, 1965-83
		01358	1.560 Head Diameter,4.810 Overall Length, +15 O/S Stem Available, 1965-83
		01504S	1.560 Head Diameter,Stellite Face,4.750 Overall Length, W/ Flat Valve Head, 1984-96
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Exh	122-1006	Positive Type,Rubber Material,Ring & Band Style,02/1991-1994
	Both	122-1035	Umbrella Type,Poly Material,Umbrella Style,1965-86
		122-1043	O-Ring Type,Nitrile Material,O-Ring Style,Exc. F100,F250 4x2 To C/118, 1965-70
Guide	Int	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
	Exh	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Exh	160-1135	1.875 Length,W/ Rotator
	Both	160-1134	1.990 Length,W/O Rotator
Lifter	Both	VL35	Hydraulic Type
Rocker Components	Both	180-1029	Rocker Arm
		180-1237	Rocker Arm, Cast
		181-1040	Rocker Arm Kit, Includes (1) Cast R. Arm, (1) Smooth Ball, (1) 3/8 Nut, (1) 5/16 Nut
		184-1022	+6 Oversize Stud, 5/16
		184-1035	Bolt W/Washer, 5/16
		184-1038	Nut, 3/8
		184-1039	Nut, 5/16
		183-1020	Grooved Ball, 3/8
		183-1022	Fulcrum
		183-1030	Smooth Ball, 3/8
Push Rod	Both	192-1322	10.136 Length,- 40 U/S (192-1322U40) Available

15 330 C.I., (5.4L), C4PA, Gas, OHV, 16 Valve, ""1964-79 Heavy Duty"" FOI330HD
 V8 330 CID BORE - 98.425mm/3.875""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1815E-1	1.815 O.D.,1.595 I.D.,1/4 Depth,OEM # C8TZ-6057A
		SB1875-2	1 7/8 O.D.,1 1/16 I.D.,1/4 Depth,Optional, Use W/ 1 7/8 Cutter
	Exh	SB1630E-1	1.630 O.D.,1.335 I.D.,0.3120 Depth,+5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material,OEM # C4TZ-6057A & D1TZ-6057A
		SB1687-4	1 11/16 O.D.,1 11/32 I.D.,5/16 Depth,Also Available In Non-Magnetic (N) Material,Optional, Use W/ 1 11/16 Cutter
Valve	Int	00918	1.753 Head Diameter
		01057S	1.753 Head Diameter,Stellite Face,Optional, To S/N 025,001, +15 O/S Stem Available, 1964-77
	Exh	00917SN	1.506 Head Diameter,Stellite Face, Sodium Filled,+15 O/S Stem Available
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Int	140-6109	0.3740 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		140-9109	0.3740 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide

(Cont'd) FORD / INDUSTRIAL**330 C.I., (5.4L), C4PA, Gas, OHV, 16 Valve, ""1964-79 Heavy Duty""****FOI330HD 15**

V8 330 CID

BORE - 98.425mm/3.875"" (cont.)

PART		PART NO.	NOTES
Guide	Exh	140-6119	0.4375 I.D.,2.500 Length,0.6267 O.D.,Plain I.D. Conversion Guide,+2 O/S Available
		140-9119	0.4375 I.D.,2.500 Length,0.6265 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1006	1.960 Length
Lifter	Both	VL9	Hydraulic Type
Rocker Components	Both	180-1059	Rocker Arm, Cast
		186-1090	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	190-1351	9.620 Length,+60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available,1964-72
		190-1426	9.590 Length,+60 O/S (190-1426+60) Available ,W/ Hyd. Lifters (Std. Length) W/ Ball Tips, 1972-79

330 C.I., (5.4L), C4PD/C5PD, Gas, OHV, 16 Valve, ""1964-69 Medium Duty""**FOI330MD 16**

V8 330 CID

BORE - 98.425mm/3.875""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1815E-1	1.815 O.D.,1.595 I.D.,¼ Depth,OEM # C8TZ-6057A
		SB1875-2	1 7/8 O.D.,1 1/16 I.D.,¼ Depth,Optional, Use W/ 1 7/8 Cutter
	Exh	SB1630E-1	1.630 O.D.,1.335 I.D.,0.3120 Depth,+5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material,OEM # C4TZ-6057A & D1TZ-6057A
		SB1687-4	1 11/16 O.D.,1 11/32 I.D.,5/16 Depth,Also Available In Non-Magnetic (N) Material,Optional, Use W/ 1 11/16 Cutter
Valve	Int	00949	1.753 Head Diameter
	Exh	01332	1.508 Head Diameter,+15 O/S Stem Available
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1031	Positive Type,Poly Material,2-Ring Style
		122-1033	Umbrella Type,Poly Material,Umbrella Style
Guide	Int	140-6109	0.3740 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		140-9109	0.3740 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	140-7298	0.3730 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		140-9298	0.3729 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1124	2.260 Length,W/ Damper
Lifter	Both	VL9	Hydraulic Type
Rocker Components	Both	180-1059	Rocker Arm, Cast
		186-1090	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	190-1351	9.620 Length,+60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available
		190-1426	9.590 Length,+60 O/S (190-1426+60) Available ,W/ Hyd. Lifters (Std. Length) W/ Ball Tips

330 C.I., (5.4L), 330GF, Gas, OHV, 16 Valve, ""1970-76""**FOI330GF 17**

V8 330 CID

BORE - 98.425mm/3.875""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1815E-1	1.815 O.D.,1.595 I.D.,¼ Depth,OEM # C8TZ-6057A
		SB1875-2	1 7/8 O.D.,1 1/16 I.D.,¼ Depth,Optional, Use W/ 1 7/8 Cutter
	Exh	SB1630E-1	1.630 O.D.,1.335 I.D.,0.3120 Depth,+5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material,OEM # C4TZ-6057A & D1TZ-6057A
		SB1687-4	1 11/16 O.D.,1 11/32 I.D.,5/16 Depth,Also Available In Non-Magnetic (N) Material,Optional, Use W/ 1 11/16 Cutter
Valve	Int	00949	1.753 Head Diameter
	Exh	01217S	1.508 Head Diameter,Stellite Face

FORD / INDUSTRIAL (Cont'd)

17 330 C.I., (5.4L), 330GF, Gas, OHV, 16 Valve, ""1970-76""
(cont.) V8 330 CID

FOI330GF
BORE - 98.425mm/3.875""

PART		PART NO.	NOTES
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1031 122-1033	Positive Type,Poly Material,2-Ring Style Umbrella Type,Poly Material,Umbrella Style
Guide	Int Exh	140-9109 140-9298	0.3740 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide 0.3729 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1124	2.260 Length,W/ Damper
Lifter	Both	VL9	Hydraulic Type
Rocker Components	Both	180-1059 186-1090	Rocker Arm, Cast Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	190-1351 190-1426	9.620 Length,+60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available 9.590 Length,+60 O/S (190-1426+60) Available ,W/ Hyd. Lifters (Std. Length) W/ Ball Tips

18 332 C.I., (5.4L), B6PL, Gas, OHV, 16 Valve
V8 332 CID

FOI332
BORE - 96.5mm/3.80""

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB2125-1 SB1630E-1	2 $\frac{1}{8}$ O.D.,1 $\frac{13}{16}$ I.D., $\frac{1}{4}$ Depth 1.630 O.D.,1.335 I.D.,0.3120 Depth,+5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material
Guide	Int	140-5606 140-6108 140-9108	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U) 0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U) 0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
	Exh	140-6119 140-9119	0.4375 I.D.,2.500 Length,0.6267 O.D.,Plain I.D. Conversion Guide,+2 O/S Available 0.4375 I.D.,2.500 Length,0.6265 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1120	2.222 Length,W/O Rotator
Push Rod	Both	190-1222	9.602 Length

19 361 C.I., (5.9L), C4PB, Gas, OHV, 16 Valve, ""1964-76""
V8 361 CID

FOI361
BORE - 102.87mm/4.00""

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1815E-1 SB1875-2 SB1630E-1N SB1687-4N	1.815 O.D.,1.595 I.D., $\frac{1}{4}$ Depth,OEM # C8TZ-6057A 1 $\frac{7}{8}$ O.D.,1 $\frac{9}{16}$ I.D., $\frac{1}{4}$ Depth,Optional, Use W/ 1 $\frac{7}{8}$ Cutter 1.630 O.D.,1.335 I.D.,0.3120 Depth,OEM # C4TZ-6057A & D1TZ-6057A 1 $\frac{11}{16}$ O.D.,1 $\frac{11}{32}$ I.D., $\frac{5}{16}$ Depth,Optional, Use W/ 1 $\frac{11}{16}$ Cutter
Valve	Int	00918 01057S	1.753 Head Diameter,0.473 Tip To Groove Length 1.753 Head Diameter,Stellite Face,Optional, 0.473 Tip To Groove Length, +15 O/S Stem Available
	Exh	00917SN	1.506 Head Diameter,Stellite Face, Sodium Filled,+15 O/S Stem Available
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Int Both	122-1036 122-1043	Umbrella Type,Poly Material,Umbrella Style,To S/N C10000, 1967-76 O-Ring Type,Nitrile Material,O-Ring Style,To S/N C10000, 1967-76
Guide	Int	140-6109 140-9109	0.3740 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide 0.3740 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	140-6119 140-9119	0.4375 I.D.,2.500 Length,0.6267 O.D.,Plain I.D. Conversion Guide,+2 O/S Available 0.4375 I.D.,2.500 Length,0.6265 O.D.,Spiral I.D. Conversion Guide

(Cont'd) FORD / INDUSTRIAL**361 C.I., (5.9L), C4PB, Gas, OHV, 16 Valve, ""1964-76""**
V8 361 CIDFOI361 **19**
BORE - 102.87mm/4.00"" (cont.)

PART		PART NO.	NOTES
Spring	Both	160-1006	1.960 Length
Lifter	Both	VL9	Hydraulic Type
Rocker Components	Both	180-1059 186-1090	Rocker Arm, Cast Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	190-1351 190-1426	9.620 Length,+60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available 9.590 Length,+60 O/S (190-1426+60) Available ,W/ Hyd. Lifters (Std. Length) W/ Ball Tips

391 C.I., (6.4L), C4PC, Gas, OHV, 16 Valve, ""1964-76""
V8 391 CIDFOI391 **20**
BORE - 102.87mm/4.00""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1815E-1 SB1875-2	1.815 O.D.,1.595 I.D.,¼ Depth,OEM # C8TZ-6057A 17⁄8 O.D.,11⁄16 I.D.,¼ Depth,Optional, Use W/ 17⁄8 Cutter
	Exh	SB1630E-1N SB1687-4N	1.630 O.D.,1.335 I.D.,0.3120 Depth,OEM # C4TZ-6057A & D1TZ-6057A 111⁄16 O.D.,111⁄32 I.D.,5⁄16 Depth,Optional, Use W/ 111⁄16 Cutter
Valve	Int	00918 01057S	1.753 Head Diameter 1.753 Head Diameter,Stellite Face,Optional, +15 O/S Stem Available
	Exh	00917SN	1.506 Head Diameter,Stellite Face, Sodium Filled,+15 O/S Stem Available
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Int	122-1036	Umbrella Type,Poly Material,Umbrella Style,From S/N B54001, 1967-76
	Exh	122-1043	O-Ring Type,Nitrile Material,O-Ring Style,From S/N B54001, 1967-76
	Both	122-1075	Positive Type,Viton Material,Ring & Band Style
Guide	Int	140-9109 140-9964	0.3740 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide 0.3730 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9964H)
	Exh	140-6119 140-9119	0.4375 I.D.,2.500 Length,0.6267 O.D.,Plain I.D. Conversion Guide,+2 O/S Available 0.4375 I.D.,2.500 Length,0.6265 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1006 160-1175	1.960 Length 2.120 Length,W/ Damper
Lifter	Both	VL9	Hydraulic Type
Rocker Components	Both	180-1059 186-1090	Rocker Arm, Cast Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	190-1351 190-1426	9.620 Length,+60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available 9.590 Length,+60 O/S (190-1426+60) Available ,W/ Hyd. Lifters (Std. Length) W/ Ball Tips

401 C.I., (6.6L), B8PQ, Gas, OHV, 16 Valve, ""1958-70""
V8 401 CIDFOI401 **21**
BORE - 104.775mm/4.125""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2220E-1	2.220 O.D.,1.843 I.D.,0.3120 Depth,OEM # B8TZ-6057T
	Exh	SB1744E-1N	1.744 O.D.,1.445 I.D.,0.3120 Depth,OEM # B8QH-6057A
Valve	Int	00531S	2.020 Head Diameter,Stellite Face
	Exh	00530SN 01346S	1.634 Head Diameter,Stellite Face, Sodium Filled 1.635 Head Diameter,Stellite Face,Optional
Keeper	Both	121-1009	1 SQ Bead Type
Stem Seal	Both	122-1003	Umbrella Type,Nitrile Material,Umbrella Style
Guide	Exh	140-7197 140-9197	0.4375 I.D.,3.000 Length,0.6270 O.D.,Plain I.D. Conversion Guide 0.4375 I.D.,3.000 Length,0.6270 O.D.,Spiral I.D. Conversion Guide

FORD / INDUSTRIAL (Cont'd)

21 401 C.I., (6.6L), B8PQ, Gas, OHV, 16 Valve, ""1958-70"" FOI401
 (cont.) V8 401 CID BORE - 104.775mm/4.125""

PART	PART NO.	NOTES
Guide	Both 140-9609	0.4375 I.D., 2.625 Length, 0.6270 O.D., Spiral I.D. Conversion Guide, Both 1958-69; Intake 1970

22 428 C.I., (7.0L), FOI428, Gas, OHV, 16 Valve FOI428
 V8 428 CID BORE - 104.775mm/4.125""

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1815E-1 SB1875-2 Exh SB1630E-1N SB1687-4N	1.815 O.D., 1.595 I.D., 1/4 Depth, OEM # C8TZ-6057A 1 7/8 O.D., 1 9/16 I.D., 1/4 Depth, Optional, Use W/ 1 7/8 Cutter 1.630 O.D., 1.335 I.D., 0.3120 Depth, OEM # C4TZ-6057A & D1TZ-6057A 1 11/16 O.D., 1 11/32 I.D., 5/16 Depth, Optional, Use W/ 1 11/16 Cutter
Valve	Int 00949 Exh 00917SN 01217S	1.753 Head Diameter, From S/N 420B61 (3/15/71) 1.506 Head Diameter, Stellite Face, Sodium Filled, W/ Seal Groove, To S/N 420B61, +15 O/S Stem Available 1.508 Head Diameter, Stellite Face, W/O Seal Groove, From S/N 420B61
Keeper	Both 121-1007	1 SQ Bead Type
Stem Seal	Int 122-1036 Exh 122-1043	Umbrella Type, Poly Material, Umbrella Style O-Ring Type, Nitrile Material, O-Ring Style, To Eng. Code 420B61
Guide	Exh 140-9116 Both 140-9108	0.4375 I.D., 3.125 Length, 0.6270 O.D., Spiral I.D. Conversion Guide, To 3/71 0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both 160-1006	1.960 Length
Lifter	Both VL9	Hydraulic Type
Push Rod	Both 190-1426	9.590 Length, +60 O/S (190-1426+60) Available ,Check Length Before Installing

23 460 C.I., (7.5L), 460L/S/G, Gas, OHV, 16 Valve, ""1976-94"" FOI460
 V8 460 CID BORE - 110.74mm/4.30""

PART	PART NO.	NOTES
Valve Seat Insert	Int SB2062-30 SB2250-1 Exh SB1625-3N SB1750-2N SB1781E-1N SB1812-21N	2 1/16 O.D., 1 13/16 I.D., 3/16 Depth, EFI & LPG, W/ 1.978 Valve Head Dia. 2 1/4 O.D., 1 15/16 I.D., 3/16 Depth, Industrial, Marine & EFI. W/ 2.083 Valve Head Dia. 1 5/8 O.D., 1 5/16 I.D., 1/4 Depth, Industrial, Use W/ 1.508 Valve Head Dia. 1 3/4 O.D., 1 1/2 I.D., 7/32 Depth, W/O OEM Seat & W/ 1.654 Valve Head Dia. 1.781 O.D., 1.476 I.D., 0.3110 Depth, W/ OEM Seat & W/ 1.654 Valve Head Dia. 1 13/16 O.D., 1 15/32 I.D., 5/16 Depth, W/ OEM Seat, Opt. O/S Use W/ 1 13/16 Cutter
Valve	Int 01272 01548 01548S 01723 Exh 01271 01368S 01547 21547	2.083 Head Diameter, Industrial & Marine +15 O/S Stem Available 1.978 Head Diameter, EFI, +15 O/S Stem Available, 1988-94 1.977 Head Diameter, Stellite Face, LPG 2.083 Head Diameter, EFI., 1993-94 1.654 Head Diameter, Marine, +15 O/S Stem Available 1.508 Head Diameter, Stellite Face, Industrial 1.654 Head Diameter, Recommended OEM Nickel Base Inconel Material, EFI & LPG, +15 O/S Stem Available, 1988-94 1.654 Head Diameter, Alternative Austenitic Material, EFI & LPG, 1988-94
Keeper	Both 121-1003	1 SQ Bead Type
Stem Seal	Int 122-1198 Exh 122-1006 Both 122-1041 122-1074	Positive Type, Viton Material, Metal Clad Style, 02/1992 - 1994 Positive Type, Rubber Material, Ring & Band Style, 02/1992 - 1994 Umbrella Type, Poly Material, Umbrella Style, Use W/ .015 & .030 O/S Valves, 1976-92 Positive Type, Viton Material, Ring & Band Style, From 02/1986 To 01/1992

(Cont'd) **FORD / INDUSTRIAL**

460 C.I., (7.5L), 460L/S/G, Gas, OHV, 16 Valve, ""1976-94""
V8 460 CID

FOI460 **23**
BORE - 110.74mm/4.30"" (cont.)

PART		PART NO.	NOTES
Guide	Both	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
Spring	Both	160-1161 160-1201 160-1409	2.068 Length 2.090 Length 2.300 Length,W/ Damper,Opt. H.D. Spring
Lifter	Both	VL35	Hydraulic Type
Rocker Components	Both	180-1233 181-1034 184-1034 183-1022	Rocker Arm, Stamped Rocker Arm Kit, Includes (1) Stamped R. Arm, (1) Fulcrum, (1) 5/16 Bolt, 5/16 Fulcrum
Push Rod	Both	190-1425	8.550 Length,+60 O/S (190-1425+60) Available

477 C.I., (7.8L), B8PM/M, Gas, OHV, 16 Valve, ""1958-70""
V8 477 CID

FOI477 **24**
BORE - 114.3mm/4.50""

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB2220E-1 SB1744E-1N	2.220 O.D.,1.843 I.D.,0.3120 Depth,OEM # B8TZ-6057T 1.744 O.D.,1.445 I.D.,0.3120 Depth,OEM # B8QH-6057A
Valve	Int Exh	00531S 00530SN 01346S	2.020 Head Diameter,Stellite Face 1.634 Head Diameter,Stellite Face, Sodium Filled 1.635 Head Diameter,Stellite Face,Optional
Keeper	Both	121-1009	1 SQ Bead Type
Stem Seal	Both	122-1003	Umbrella Type,Nitrile Material,Umbrella Style
Guide	Both	140-9609	0.4375 I.D.,2.625 Length,0.6270 O.D.,Spiral I.D. Conversion Guide

534 C.I., (8.7L), B8PN/N, Gas, OHV, 16 Valve, ""1958-70""
V8 534 CID

FOI534 **25**
BORE - 114.3mm/4.50""

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB2220E-1 SB1744E-1N	2.220 O.D.,1.843 I.D.,0.3120 Depth,OEM # B8TZ-6057T 1.744 O.D.,1.445 I.D.,0.3120 Depth,OEM # B8QH-6057A
Valve	Int Exh	00531S 00530SN 01346S	2.020 Head Diameter,Stellite Face 1.634 Head Diameter,Stellite Face, Sodium Filled 1.635 Head Diameter,Stellite Face,Optional
Keeper	Both	121-1009	1 SQ Bead Type
Stem Seal	Both	122-1003	Umbrella Type,Nitrile Material,Umbrella Style
Guide	Exh Both	140-7197 140-9197 140-9609	0.4375 I.D.,3.000 Length,0.6270 O.D.,Plain I.D. Conversion Guide 0.4375 I.D.,3.000 Length,0.6270 O.D.,Spiral I.D. Conversion Guide 0.4375 I.D.,2.625 Length,0.6270 O.D.,Spiral I.D. Conversion Guide,Both 1958-69, Intake Only 1970

FORD / TRACTOR

Engine	Models	Line No.
3 Cylinder		
158 C.I., (2.6L), 158D, Diesel, OHV, 6 Valve		8
158 C.I., (2.6L), 158G, Gas, OHV, 8 Valve		9
158 C.I., (2.6L), 158LP, LPG, OHV, 6 Valve		10
175 C.I., (2.8L), 175D, Diesel, OHV, 6 Valve		15
192 C.I., (3.1L), 192D, Diesel, OHV, 6 Valve		16
192 C.I., (3.1L), 192G, Gas, OHV, 6 Valve		17

FORD / TRACTOR (Cont'd)

Engine	Models	Line No.
3 Cylinder		
201 C.I., (3.3L), 201D, Diesel, OHV, 6 Valve		18
201 C.I., (3.3L), 201G, Gas, OHV, 6 Valve		19
4 Cylinder		
120 C.I., (2.0L), 2N, Gas, OHV, 8 Valve, ""1942-47""		1
120 C.I., (2.0L), 8N, Gas, OHV, 8 Valve, ""1948-52""		2
120 C.I., (2.0L), 9N, Gas, OHV, 8 Valve, ""1939-41""		3
134 C.I., (2.2L), 134G, Gas, OHV, 8 Valve, ""1953-64""		4
134 C.I., (2.2L), 134K, Kerosene, OHV, 8 Valve, ""1953-64""		5
134 C.I., (2.2L), 134LP, LPG, OHV, 8 Valve, ""1953-64""		6
144 C.I., (2.4L), 144D, Diesel, OHV, 8 Valve		7
172 C.I., (2.8L), 172D, Diesel, OHV, 8 Valve, ""1958-64""		11
172 C.I., (2.8L), 172G, Gas, OHV, 8 Valve, ""1955-64""		12
172 C.I., (2.8L), 172K, Kerosene, OHV, 8 Valve, ""1955-64""		13
172 C.I., (2.8L), 172LP, LPG, OHV, 8 Valve, ""1955-64""		14
220 C.I., (3.6L), 220D, Diesel, OHV, 8 Valve		20
233 C.I., (3.8L), 233D, Diesel, OHV, 8 Valve		22
233 C.I., (3.8L), 233G, Diesel, OHV, 8 Valve		23
256 C.I., (4.2L), 256D, Diesel, OHV, 8 Valve		25
256 C.I., (4.2L), 256G, Gas, OHV, 8 Valve		26
268 C.I., (4.2L), 268D, Diesel, OHV, 8 Valve, ""N/A & TURBO""		27
6 Cylinder		
223 C.I., (3.7L), 223G, Gas, OHV, 12 Valve, ""1958-71""		21
242 C.I., (4.0L), 242D, Diesel, OHV, 12 Valve, ""1961-71""		24
330 C.I., (5.4L), 330D, Diesel, OHV, 12 Valve		28
401 C.I., (6.6L), 401D, Diesel, OHV, 12 Valve		29
401 C.I., (6.6L), 401T, Diesel, OHV, 12 Valve, ""TURBO""		30

1 120 C.I., (2.0L), 2N, Gas, OHV, 8 Valve, ""1942-47"" 120_61
L4 120 CID BORE - 80.96mm/3.187""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1348E-1N	1.348 O.D., 1.087 I.D., 0.2000 Depth, +10 O/S Available
Valve	Int	00212	1.510 Head Diameter, OEM # 1BA6505A2 & 8BA6505A; NOTE: Stainless Steel
		00214	1.510 Head Diameter, OEM # 8BA6507A
	Exh	00220	1.281 Head Diameter, OEM # 8N6505A
		00270	1.283 Head Diameter, Tapered Groove, OEM # 8N6505C, Rototype
Keeper	Exh	121-1065	No Bead Bead Type, Tapered Groove, OEM # EAM6518A, Rototype
	Both	121-1003	1 SQ Bead Type, OEM # 7HA6518A
Stem Seal	Both	122-1376	O-Ring Type, Nitrile Material, Valve Guide Seal Style, OEM # 8BA6571
Guide	Both	140-1614	0.3435 I.D., 2.210 Length, 1.0303 O.D., OEM # 8BA6510B
		149-1001	N/A I.D., N/A Length, N/A O.D., Valve Guide Retainer, OEM # 4Q6512
Spring	Both	160-1433	2.313 Length, OEM # 8N6513
Rotator	Exh	161-1058	ROTOTYPE, OEM # 8RT6514B
		161-9002	Lash Cap, OEM # 8EQ6550B

(Cont'd) FORD / TRACTOR

120 C.I., (2.0L), 2N, Gas, OHV, 8 Valve, ""1942-47"" **120_61 1**
 L4 120 CID **BORE - 80.96mm/3.187"" (cont.)**

PART		PART NO.	NOTES
Rotator	Both	161-1057	OEM # 8BA6514

120 C.I., (2.0L), 8N, Gas, OHV, 8 Valve, ""1948-52"" **120_61 2**
 L4 120 CID **BORE - 80.96mm/3.187""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1348E-1N		1.348 O.D., 1.087 I.D., 0.2000 Depth, +10 O/S Available
Valve	Int	00212	1.510 Head Diameter, OEM # 1BA6505A2 & 8BA6505A; NOTE: Stainless Steel
		00214	1.510 Head Diameter, OEM # 8BA6507A
	Exh	00220	1.281 Head Diameter, W/O Rototype, OEM # 8N6505A
		00270	1.283 Head Diameter, Tapered Groove, Rototype, OEM # 8N6505C
Keeper	Exh	121-1065	No Bead Bead Type, Tapered Groove, Rototype, OEM # EAM6518A
	Both	121-1003	1 SQ Bead Type, W/O Rototype, OEM # 7HA6518A
Stem Seal	Both	122-1376	O-Ring Type, Nitrile Material, Valve Guide Seal Style, OEM # 8BA6571
Guide	Both	140-1614	0.3435 I.D., 2.210 Length, 1.0303 O.D., OEM # 8BA6510B
		149-1001	N/A I.D., N/A Length, N/A O.D., Valve Guide Retainer, OEM # 4Q6512
Spring	Both	160-1433	2.313 Length, OEM # 8N6513
Rotator	Exh	161-1058	ROTOTYPE, OEM # 8RT6514B
		161-9002	Lash Cap, OEM # 8EQ6550B
	Both	161-1057	OEM # 8BA6514

120 C.I., (2.0L), 9N, Gas, OHV, 8 Valve, ""1939-41"" **120_63 3**
 L4 120 CID **BORE - 80.96mm/3.187""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1348E-1N		1.348 O.D., 1.087 I.D., 0.2000 Depth, +10 O/S Available
Valve	Int	00212	1.510 Head Diameter, OEM # 1BA6505A2 & 8BA6505A; NOTE: Stainless Steel
		00214	1.510 Head Diameter, OEM # 8BA6507A
	Exh	00220	1.281 Head Diameter, OEM # 8N6505A
		00270	1.283 Head Diameter, Tapered Groove, OEM # 8N6505C, Rototype
Keeper	Exh	121-1065	No Bead Bead Type, Tapered Groove, OEM # EAM6518A, Rototype
	Both	121-1003	1 SQ Bead Type, OEM # 7HA6518A
Stem Seal	Both	122-1376	O-Ring Type, Nitrile Material, Valve Guide Seal Style, OEM # 8BA6571
Guide	Both	140-1614	0.3435 I.D., 2.210 Length, 1.0303 O.D., OEM # 8BA6510B
		149-1001	N/A I.D., N/A Length, N/A O.D., Valve Guide Retainer, OEM # 4Q6512
Spring	Both	160-1433	2.313 Length, OEM # 8N6513
Rotator	Exh	161-1058	ROTOTYPE, OEM # 8RT6514B
		161-9002	Lash Cap, OEM # 8EQ6550B
	Both	161-1057	OEM # 8BA6514

134 C.I., (2.2L), 134G, Gas, OHV, 8 Valve, ""1953-64"" **134G 4**
 L4 134 CID **BORE - 87.3mm/3.437""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-2	1 $\frac{13}{16}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth
	Exh	SB1625-11+006		1.636 O.D., 1$\frac{11}{32}$ I.D., $\frac{7}{32}$ Depth
Valve	Int	00376	1.647 Head Diameter, OEM # EBU6507A
	Exh	00348	1.510 Head Diameter, OEM # EAF6505D, Rototype

FORD / TRACTOR (Cont'd)

4 134 C.I., (2.2L), 134G, Gas, OHV, 8 Valve, ""1953-64"" 134G
 (cont.) L4 134 CID BORE - 87.3mm/3.437""

PART		PART NO.	NOTES
Keeper	Int	121-1003	1 SQ Bead Type,OEM # 7HA6518
	Exh	121-1065	No Bead Bead Type,Tapered Groove,OEM # EAM6518A
Stem Seal	Both	122-1032	Umbrella Type,Poly Material,Umbrella Style,OEM # C3AE6571B
Guide	Both	140-1726	0.3437 I.D.,2.470 Length,0.7515 O.D.,OEM # EAF6510C
Spring	Int	160-1120	2.222 Length,OEM # EAA6513A, W/O Rotator
Lifter	Both	VL21	Mechanical Type
Push Rod	Both	190-1222	9.602 Length

5 134 C.I., (2.2L), 134K, Kerosene, OHV, 8 Valve, ""1953-64"" 134K
 L4 134 CID BORE - 87.3mm/3.437""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-2	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth
	Exh	SB1625-11+006	1.636 O.D.,1 ¹¹ / ₃₂ I.D., ⁷ / ₃₂ Depth
Valve	Int	00376	1.647 Head Diameter,OEM # EBU6507A
	Exh	00348	1.510 Head Diameter,OEM # EAF6505D, Rototype
Keeper	Int	121-1003	1 SQ Bead Type,OEM # 7HA6518
	Exh	121-1065	No Bead Bead Type,Tapered Groove,OEM # EAM6518A
Stem Seal	Both	122-1032	Umbrella Type,Poly Material,Umbrella Style,OEM # C3AE6571B
Guide	Both	140-1726	0.3437 I.D.,2.470 Length,0.7515 O.D.,OEM # EAF6510C
Spring	Int	160-1120	2.222 Length,OEM # EAA6513A, W/O Rotator
Lifter	Both	VL21	Mechanical Type
Push Rod	Both	190-1222	9.602 Length

6 134 C.I., (2.2L), 134LP, LPG, OHV, 8 Valve, ""1953-64"" 134LP
 L4 134 CID BORE - 87.3mm/3.437""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-2	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth
	Exh	SB1625-11+006	1.636 O.D.,1 ¹¹ / ₃₂ I.D., ⁷ / ₃₂ Depth
Valve	Int	00376	1.647 Head Diameter,OEM # EBU6507A
	Exh	00348	1.510 Head Diameter,OEM # EAF6505D, Rototype
Keeper	Int	121-1003	1 SQ Bead Type,OEM # 7HA6518
	Exh	121-1065	No Bead Bead Type,Tapered Groove,OEM # EAM6518A
Stem Seal	Both	122-1032	Umbrella Type,Poly Material,Umbrella Style,OEM # C3AE6571B
Guide	Both	140-1726	0.3437 I.D.,2.470 Length,0.7515 O.D.,OEM # EAF6510C
Spring	Int	160-1120	2.222 Length,OEM # EAA6513A, W/O Rotator
Lifter	Both	VL21	Mechanical Type
Push Rod	Both	190-1222	9.602 Length

7 144 C.I., (2.4L), 144D, Diesel, OHV, 8 Valve 144D
 L4 144 CID BORE - 90.4mm/3.559""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-11	1 ⁵ / ₈ O.D.,1 ¹¹ / ₃₂ I.D., ⁷ / ₃₂ Depth,+6 O/S Available
	Exh	SB1250-1	1 ¹ / ₄ O.D.,1.000 I.D., ⁷ / ₃₂ Depth
Push Rod	Both	190-1222	9.602 Length

158 C.I., (2.6L), 158D, Diesel, OHV, 6 Valve
L3 158 CID**158D 8**
BORE - 106.68mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1900E-1	1.900 O.D.,1.650 I.D.,0.3000 Depth,Alternate W/ Larger Depth
		SB1900E-2	1.900 O.D.,1.645 I.D.,0.2500 Depth,+20 O/S Available,OEM # D4NN6056A
	Exh	SB1600E-1	1.600 O.D.,1.340 I.D.,0.3000 Depth,+20 O/S Available,OEM # C9NN6057J
		SB1630E-1N	1.630 O.D.,1.335 I.D.,0.3120 Depth,Alternate +30 O/S W/ Larger Depth
Valve	Int	01654	1.805 Head Diameter,OEM # D3NN6507A
	Exh	01653	1.500 Head Diameter,OEM # D3NN6505A
		01695S	1.510 Head Diameter,Stellite Face,Thick Margin Valve
Keeper	Both	121-1007	1 SQ Bead Type,OEM # F2NN6518AA
Guide	Both	140-6905	0.3750 I.D.,3.969 Length,0.6275 O.D.,Universal
Spring	Both	160-1211	2.390 Length,From 1991
		160-1212	2.208 Length,OEM # D6NN6513A, To 1991

158 C.I., (2.6L), 158G, Gas, OHV, 8 Valve
L3 158 CID**158G 9**
BORE - 106.68mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1900E-1	1.900 O.D.,1.650 I.D.,0.3000 Depth,Alternate W/ Larger Depth
		SB1900E-2	1.900 O.D.,1.645 I.D.,0.2500 Depth,+20 O/S Available,OEM # D4NN6056A
	Exh	SB1600E-1	1.600 O.D.,1.340 I.D.,0.3000 Depth,+20 O/S Available,OEM # C9NN6057J
		SB1630E-1N	1.630 O.D.,1.335 I.D.,0.3120 Depth,Alternate +30 O/S W/ Larger Depth
Valve	Int	01654	1.805 Head Diameter,OEM # C5NN6507B
	Exh	01653	1.500 Head Diameter,OEM # D3NN6505A
		01695S	1.510 Head Diameter,Stellite Face,Thick Margin Valve
Keeper	Both	121-1007	1 SQ Bead Type,OEM # F2NN6518AA
Guide	Both	140-6905	0.3750 I.D.,3.969 Length,0.6275 O.D.,Universal
Spring	Both	160-1211	2.390 Length,From 1991
		160-1212	2.208 Length,OEM # D6NN6513A, To 1991

158 C.I., (2.6L), 158LP, LPG, OHV, 6 Valve
L3 158 CID**158LP 10**
BORE - 106.68mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1900E-1	1.900 O.D.,1.650 I.D.,0.3000 Depth,Alternate W/ Larger Depth
		SB1900E-2	1.900 O.D.,1.645 I.D.,0.2500 Depth,+20 O/S Available,OEM # D4NN6056A
	Exh	SB1600E-1	1.600 O.D.,1.340 I.D.,0.3000 Depth,+20 O/S Available,OEM # C9NN6057J
		SB1630E-1N	1.630 O.D.,1.335 I.D.,0.3120 Depth,Alternate +30 O/S W/ Larger Depth
Valve	Int	01654	1.805 Head Diameter,OEM # D3NN6507A
	Exh	01653	1.500 Head Diameter,OEM # D3NN6505A
		01695S	1.510 Head Diameter,Stellite Face,Thick Margin Valve
Keeper	Both	121-1007	1 SQ Bead Type,OEM # F2NN6518AA
Guide	Both	140-6905	0.3750 I.D.,3.969 Length,0.6275 O.D.,Universal
Spring	Both	160-1211	2.390 Length,From 1991
		160-1212	2.208 Length,OEM # D6NN6513A, To 1991

172 C.I., (2.8L), 172D, Diesel, OHV, 8 Valve, ""1958-64""
L4 172 CID**172D 11**
BORE - 99.06mm/3.90"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
	Exh	SB1625-1	1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	00609	1.647 Head Diameter,OEM # 31650
	Exh	00608	1.510 Head Diameter,OEM # 310651

FORD / TRACTOR (Cont'd)

11 172 C.I., (2.8L), 172D, Diesel, OHV, 8 Valve, ""1958-64"" 172D
 (cont.) L4 172 CID BORE - 99.06mm/3.90""

PART		PART NO.	NOTES
Keeper	Int	121-1003	1 SQ Bead Type,OEM # 7HA6518
	Exh	121-1065	No Bead Bead Type,Tapered Groove,OEM # EAM6518A
Stem Seal	Both	122-1032	Umbrella Type,Poly Material,Umbrella Style,OEM # C3AE6571B
Guide	Int	140-1966	0.3440 I.D.,2.938 Length,0.7513 O.D.,OEM # 311411
	Exh	140-1726	0.3437 I.D.,2.470 Length,0.7515 O.D.,OEM # EAF6510C
Spring	Both	160-1120	2.222 Length,OEM # EAA6513A, W/O Rotator
Lifter	Both	VL21	Mechanical Type
Push Rod	Both	190-1222	9.602 Length

12 172 C.I., (2.8L), 172G, Gas, OHV, 8 Valve, ""1955-64"" 172G
 L4 172 CID BORE - 99.06mm/3.90""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-2	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth
	Exh	SB1625-11+006	1.636 O.D.,1 ¹¹ / ₃₂ I.D., ⁷ / ₃₂ Depth
Valve	Int	00376	1.647 Head Diameter,OEM # EBU6507A
	Exh	00348	1.510 Head Diameter,OEM # EAF6505D
Keeper	Int	121-1003	1 SQ Bead Type,OEM # 7HA6518
	Exh	121-1065	No Bead Bead Type,Tapered Groove,OEM # EAM6518A
Stem Seal	Both	122-1032	Umbrella Type,Poly Material,Umbrella Style,OEM # C3AE6571B
Guide	Both	140-1726	0.3437 I.D.,2.470 Length,0.7515 O.D.,OEM # EAF6510C
Spring	Both	160-1120	2.222 Length,OEM # EAA6513A, W/O Rotator
Lifter	Both	VL21	Mechanical Type
Push Rod	Both	190-1222	9.602 Length

13 172 C.I., (2.8L), 172K, Kerosene, OHV, 8 Valve, ""1955-64"" 172K
 L4 172 CID BORE - 99.06mm/3.90""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-2	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth
	Exh	SB1625-11+006	1.636 O.D.,1 ¹¹ / ₃₂ I.D., ⁷ / ₃₂ Depth
Valve	Int	00376	1.647 Head Diameter,OEM # EBU6507A
	Exh	00348	1.510 Head Diameter,OEM # EAF6505D
Keeper	Int	121-1003	1 SQ Bead Type,OEM # 7HA6518
	Exh	121-1065	No Bead Bead Type,Tapered Groove,OEM # EAM6518A
Stem Seal	Both	122-1032	Umbrella Type,Poly Material,Umbrella Style,OEM # C3AE6571B
Guide	Both	140-1726	0.3437 I.D.,2.470 Length,0.7515 O.D.,OEM # EAF6510C
Spring	Both	160-1120	2.222 Length,OEM # EAA6513A, W/O Rotator
Lifter	Both	VL21	Mechanical Type
Push Rod	Both	190-1222	9.602 Length

14 172 C.I., (2.8L), 172LP, LPG, OHV, 8 Valve, ""1955-64"" 172LP
 L4 172 CID BORE - 99.06mm/3.90""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-2	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth
	Exh	SB1625-11+006	1.636 O.D.,1 ¹¹ / ₃₂ I.D., ⁷ / ₃₂ Depth
Valve	Int	00376	1.647 Head Diameter,OEM # EBU6507A
	Exh	00348	1.510 Head Diameter,OEM # EAF6505D
Keeper	Int	121-1003	1 SQ Bead Type,OEM # 7HA6518
	Exh	121-1065	No Bead Bead Type,Tapered Groove,OEM # EAM6518A

(Cont'd) FORD / TRACTOR**172 C.I., (2.8L), 172LP, LPG, OHV, 8 Valve, ""1955-64""****172LP 14**

L4 172 CID

BORE - 99.06mm/3.90"" (cont.)

PART		PART NO.	NOTES
Stem Seal	Both	122-1032	Umbrella Type,Poly Material,Umbrella Style,OEM # C3AE6571B
Guide	Both	140-1726	0.3437 I.D.,2.470 Length,0.7515 O.D.,OEM # EAF6510C
Spring	Both	160-1120	2.222 Length,OEM # EAA6513A, W/O Rotator
Lifter	Both	VL21	Mechanical Type
Push Rod	Both	190-1222	9.602 Length

175 C.I., (2.8L), 175D, Diesel, OHV, 6 Valve**175D 15**

L3 175 CID

BORE - 106.68mm/4.20""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1900E-1	1.900 O.D.,1.650 I.D.,0.3000 Depth,Alternate W/ Larger Depth
		SB1900E-2	1.900 O.D.,1.645 I.D.,0.2500 Depth,+20 O/S Available,OEM # D4NN6056A
	Exh	SB1600E-1	1.600 O.D.,1.340 I.D.,0.3000 Depth,+20 O/S Available,OEM # C9NN6057J
		SB1630E-1N	1.630 O.D.,1.335 I.D.,0.3120 Depth,Alternate +30 O/S W/ Larger Depth
Valve	Int	01654	1.805 Head Diameter,OEM # D3NN6507A
	Exh	01653	1.500 Head Diameter,OEM # D3NN6505A
		01695S	1.510 Head Diameter,Stellite Face,Thick Margin Valve
Keeper	Both	121-1007	1 SQ Bead Type,OEM # F2NN6518AA
Guide	Both	140-6905	0.3750 I.D.,3.969 Length,0.6275 O.D.,Universal
Spring	Both	160-1211	2.390 Length,From 1991
		160-1212	2.208 Length,OEM # D6NN6513A, To 1991

192 C.I., (3.1L), 192D, Diesel, OHV, 6 Valve**192D 16**

L3 192 CID

BORE - 111.7mm/4.398""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1900E-1	1.900 O.D.,1.650 I.D.,0.3000 Depth,Alternate W/ Larger Depth
		SB1900E-2	1.900 O.D.,1.645 I.D.,0.2500 Depth,+20 O/S Available,OEM # D4NN6056A, Exc. Turbo
	Exh	SB1900E-3	1.900 O.D.,1.650 I.D.,0.2200 Depth,OEM # D4NN6056A, Turbo
		SB1600E-1	1.600 O.D.,1.340 I.D.,0.3000 Depth,+20 O/S Available,OEM # C9NN6057J, Thin Margin Valve, 0.050""
		SB1630E-1N	1.630 O.D.,1.335 I.D.,0.3120 Depth,Alternate +30 O/S W/ Larger Depth, Includes Turbo
Valve	Int	01654	1.805 Head Diameter,OEM # D3NN6507A, Except Turbo
		01694	1.842 Head Diameter,OEM # D8NN6507AA, Turbo
	Exh	01653	1.500 Head Diameter,OEM # D3NN6505A
		01695S	1.510 Head Diameter,Stellite Face,OEM # D8NN6505AA, Turbo, Thick Margin Valve, 0.070""
Keeper	Both	121-1007	1 SQ Bead Type,OEM # F2NN6518AA
Guide	Both	140-6905	0.3750 I.D.,3.969 Length,0.6275 O.D.,Universal
Spring	Both	160-1211	2.390 Length,From 1991
		160-1212	2.208 Length,OEM # D6NN6513A, To 1990

192 C.I., (3.1L), 192G, Gas, OHV, 6 Valve**192G 17**

L3 192 CID

BORE - 111.7mm/4.398""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1900E-1	1.900 O.D.,1.650 I.D.,0.3000 Depth,Alternate W/ Larger Depth
		SB1900E-2	1.900 O.D.,1.645 I.D.,0.2500 Depth,+20 O/S Available,OEM # D4NN6056A
	Exh	SB1600E-1	1.600 O.D.,1.340 I.D.,0.3000 Depth,+20 O/S Available,OEM # C9NN6057J
		SB1630E-1N	1.630 O.D.,1.335 I.D.,0.3120 Depth,Alternate +30 O/S W/ Larger Depth
Valve	Int	01654	1.805 Head Diameter,OEM # D3NN6507A
	Exh	01653	1.500 Head Diameter,OEM # D3NN6505A

FORD / TRACTOR (Cont'd)

17 192 C.I., (3.1L), 192G, Gas, OHV, 6 Valve 192G
 (cont.) L3 192 CID BORE - 111.7mm/4.398"

PART		PART NO.	NOTES
Valve	Exh	01695S	1.510 Head Diameter,Stellite Face,Thick Margin Valve
Keeper	Both	121-1007	1 SQ Bead Type,OEM # F2NN6518AA
Guide	Both	140-6905	0.3750 I.D.,3.969 Length,0.6275 O.D.,Universal
Spring	Both	160-1211	2.390 Length,From 1991
		160-1212	2.208 Length,OEM # D6NN6513A, To 1991

18 201 C.I., (3.3L), 201D, Diesel, OHV, 6 Valve 201D
 L3 201 CID BORE - 111.76mm/4.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1900E-1	1.900 O.D.,1.650 I.D.,0.3000 Depth,Alternate W/ Larger Depth
		SB1900E-2	1.900 O.D.,1.645 I.D.,0.2500 Depth,+20 O/S Available,OEM # D4NN6056A
	Exh	SB1600E-1	1.600 O.D.,1.340 I.D.,0.3000 Depth,+20 O/S Available,OEM # C9NN6057J
		SB1630E-1N	1.630 O.D.,1.335 I.D.,0.3120 Depth,Alternate +30 O/S W/ Larger Depth
Valve	Int	01654	1.805 Head Diameter,OEM # C5NN6507B
	Exh	01653	1.500 Head Diameter,OEM # D3NN6505A
		01695S	1.510 Head Diameter,Stellite Face,Thick Margin Valve
Keeper	Both	121-1007	1 SQ Bead Type,OEM # F2NN6518AA
Guide	Both	140-6905	0.3750 I.D.,3.969 Length,0.6275 O.D.,Universal
Spring	Both	160-1211	2.390 Length,From 1991
		160-1212	2.208 Length,OEM # D6NN6513A, To 1990

19 201 C.I., (3.3L), 201G, Gas, OHV, 6 Valve 201G
 L3 201 CID BORE - 111.76mm/4.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1900E-1	1.900 O.D.,1.650 I.D.,0.3000 Depth,Alternate W/ Larger Depth
		SB1900E-2	1.900 O.D.,1.645 I.D.,0.2500 Depth,+20 O/S Available,OEM # D4NN6056A
	Exh	SB1630E-1	1.630 O.D.,1.335 I.D.,0.3120 Depth,+5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int	01654	1.805 Head Diameter,OEM # D3NN6507A
	Exh	01653	1.500 Head Diameter,OEM # D3NN6505A
		01695S	1.510 Head Diameter,Stellite Face,Thick Margin Valve
Keeper	Both	121-1007	1 SQ Bead Type,OEM # F2NN6518AA
Guide	Both	140-6905	0.3750 I.D.,3.969 Length,0.6275 O.D.,Universal
Spring	Both	160-1211	2.390 Length,From 1991
		160-1212	2.208 Length,OEM # D6NN6513A, To 1990

20 220 C.I., (3.6L), 220D, Diesel, OHV, 8 Valve 220D
 L4 220 CID BORE - 100mm/3.937"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1 ⁷ / ₈ O.D.,1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth
	Exh	SB1750-7	1 ³ / ₄ O.D.,1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Head W/O OEM Seat

21 223 C.I., (3.7L), 223G, Gas, OHV, 12 Valve, ""1958-71"" 223G
 L6 223 CID BORE - 92mm/3.622"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 ³ / ₄ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1600E-1	1.600 O.D.,1.340 I.D.,0.3000 Depth,+20 O/S Available,OEM # C9NN6057J
		SB1630E-1N	1.630 O.D.,1.335 I.D.,0.3120 Depth,Alternate +30 O/S W/ Larger Depth
Guide	Both	140-6105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
Push Rod	Both	190-1222	9.602 Length

233 C.I., (3.8L), 233D, Diesel, OHV, 8 Valve
L4 233 CID**233D 22**
BORE - 106.68mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1900E-1	1.900 O.D.,1.650 I.D.,0.3000 Depth,Alternate W/ Larger Depth
		SB1900E-2	1.900 O.D.,1.645 I.D.,0.2500 Depth,+20 O/S Available,OEM # D4NN6056A
	Exh	SB1600E-1	1.600 O.D.,1.340 I.D.,0.3000 Depth,+20 O/S Available,OEM # C9NN6057J
		SB1630E-1N	1.630 O.D.,1.335 I.D.,0.3120 Depth,Alternate +30 O/S W/ Larger Depth
Valve	Int	01654	1.805 Head Diameter,OEM # C5NN6507B
	Exh	01653	1.500 Head Diameter,OEM # D3NN6505A
		01695S	1.510 Head Diameter,Stellite Face,Thick Margin Valve
Keeper	Both	121-1007	1 SQ Bead Type,OEM # F2NN6518AA
Guide	Both	140-6905	0.3750 I.D.,3.969 Length,0.6275 O.D.,Universal
Spring	Both	160-1211	2.390 Length,From 1991
		160-1212	2.208 Length,OEM # D6NN6513A, To 1991

233 C.I., (3.8L), 233G, Diesel, OHV, 8 Valve
L4 233 CID**233G 23**
BORE - 106.68mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1900E-1	1.900 O.D.,1.650 I.D.,0.3000 Depth,Alternate W/ Larger Depth
		SB1900E-2	1.900 O.D.,1.645 I.D.,0.2500 Depth,+20 O/S Available,OEM # D4NN6056A
	Exh	SB1600E-1	1.600 O.D.,1.340 I.D.,0.3000 Depth,+20 O/S Available,OEM # C9NN6057J
		SB1630E-1N	1.630 O.D.,1.335 I.D.,0.3120 Depth,Alternate +30 O/S W/ Larger Depth
Valve	Int	01654	1.805 Head Diameter,OEM # D3NN6507A
	Exh	01653	1.500 Head Diameter,OEM # D3NN6505A
		01695S	1.510 Head Diameter,Stellite Face,Thick Margin Valve
Keeper	Both	121-1007	1 SQ Bead Type,OEM # F2NN6518AA
Guide	Both	140-6905	0.3750 I.D.,3.969 Length,0.6275 O.D.,Universal
Spring	Both	160-1211	2.390 Length,From 1991
		160-1212	2.208 Length,OEM # D6NN6513A, To 1991

242 C.I., (4.0L), 242D, Diesel, OHV, 12 Valve, ""1961-71""
L6 242 CID**242D 24**
BORE - 92mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-3	1 $\frac{3}{4}$ O.D.,1 $\frac{7}{16}$ I.D., $\frac{7}{32}$ Depth,Also Available In Non-Magnetic (N) Material
	Exh	SB1437-4	1 $\frac{7}{16}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth

256 C.I., (4.2L), 256D, Diesel, OHV, 8 Valve
L4 256 CID**256D 25**
BORE - 111.76mm/4.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1900E-1	1.900 O.D.,1.650 I.D.,0.3000 Depth,Alternate W/ Larger Depth
		SB1900E-2	1.900 O.D.,1.645 I.D.,0.2500 Depth,+20 O/S Available,OEM # D4NN6056A, Exc. Turbo
	Exh	SB1900E-3	1.900 O.D.,1.650 I.D.,0.2200 Depth,OEM # D4NN6056A, Turbo
		SB1600E-1	1.600 O.D.,1.340 I.D.,0.3000 Depth,+20 O/S Available,OEM # C9NN6057J, Thin Margin Valve, 0.050"
		SB1630E-1N	1.630 O.D.,1.335 I.D.,0.3120 Depth,Alternate +30 O/S W/ Larger Depth, Includes Turbo
Valve	Int	01654	1.805 Head Diameter,OEM # D3NN6507A, Except Turbo
		01694	1.842 Head Diameter,OEM # D8NN6507AA, Turbo
	Exh	01653	1.500 Head Diameter,OEM # D3NN6505A
		01695S	1.510 Head Diameter,Stellite Face,OEM # D8NN6505AA, Turbo, Thick Margin Valve, 0.070"
Keeper	Both	121-1007	1 SQ Bead Type,OEM # F2NN6518AA
Guide	Both	140-6905	0.3750 I.D.,3.969 Length,0.6275 O.D.,Universal

FORD / TRACTOR (Cont'd)

25 256 C.I., (4.2L), 256D, Diesel, OHV, 8 Valve 256D
 (cont.) L4 256 CID BORE - 111.76mm/4.40"

PART		PART NO.	NOTES
Spring	Both	160-1211	2.390 Length, From 1991
		160-1212	2.208 Length, OEM # D6NN6513A, To 1990

26 256 C.I., (4.2L), 256G, Gas , OHV, 8 Valve 256G
 L4 256 CID BORE - 111.76mm/4.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1900E-1	1.900 O.D., 1.650 I.D., 0.3000 Depth, Alternate W/ Larger Depth
		SB1900E-2	1.900 O.D., 1.645 I.D., 0.2500 Depth, +20 O/S Available, OEM # D4NN6056A
	Exh	SB1600E-1	1.600 O.D., 1.340 I.D., 0.3000 Depth, +20 O/S Available, OEM # C9NN6057J
		SB1630E-1N	1.630 O.D., 1.335 I.D., 0.3120 Depth, Alternate +30 O/S W/ Larger Depth
Valve	Int	01654	1.805 Head Diameter, OEM # D3NN6507A
	Exh	01653	1.500 Head Diameter, OEM # D3NN6505A
		01695S	1.510 Head Diameter, Stellite Face, OEM # D8NN6505AA, Thick Margin Valve
Keeper	Both	121-1007	1 SQ Bead Type, OEM # F2NN6518AA
Guide	Both	140-6905	0.3750 I.D., 3.969 Length, 0.6275 O.D., Universal
Spring	Both	160-1211	2.390 Length, From 1991
		160-1212	2.208 Length, OEM # D6NN6513A, To 1990

27 268 C.I., (4.2L), 268D, Diesel, OHV, 8 Valve, ""N/A & TURBO"" 268D
 L4 268 CID BORE - 111.76mm/4.40"

PART		PART NO.	NOTES
Valve	Int	01654	1.805 Head Diameter, OEM # D3NN6507A
		01694	1.842 Head Diameter, OEM # D8NN6507AA
	Exh	01695S	1.510 Head Diameter, Stellite Face, OEM # D8NN6505AA
Keeper	Both	121-1007	1 SQ Bead Type, OEM # F2NN6518AA
Guide	Both	140-6905	0.3750 I.D., 3.969 Length, 0.6275 O.D.
Spring	Both	160-1212	2.208 Length, OEM # D6NN6513A

28 330 C.I., (5.4L), 330D, Diesel, OHV, 12 Valve 330D
 L6 330 CID BORE - 100mm/3.937"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1 $\frac{7}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth
	Exh	SB1750-7	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth, Universal Size Seat For Head W/O OEM Seat

29 401 C.I., (6.6L), 401D, Diesel, OHV, 12 Valve 401D
 L6 401 CID BORE - 111.76mm/4.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1900E-1	1.900 O.D., 1.650 I.D., 0.3000 Depth, Alternate W/ Larger Depth
		SB1900E-2	1.900 O.D., 1.645 I.D., 0.2500 Depth, +20 O/S Available, OEM # D4NN6056A
	Exh	SB1600E-1	1.600 O.D., 1.340 I.D., 0.3000 Depth, +20 O/S Available, OEM # C9NN6057J
		SB1630E-1N	1.630 O.D., 1.335 I.D., 0.3120 Depth, Alternate +30 O/S W/ Larger Depth
Valve	Int	01654	1.805 Head Diameter, OEM # C5NN6507B, Except Turbo
	Exh	01653	1.500 Head Diameter, OEM # D3NN6505A
		01695S	1.510 Head Diameter, Stellite Face, OEM # D8NN6505AA, Thick Margin Valve
Keeper	Both	121-1007	1 SQ Bead Type, OEM # F2NN6518AA
Guide	Both	140-6905	0.3750 I.D., 3.969 Length, 0.6275 O.D., Universal
Spring	Both	160-1211	2.390 Length, From 1990
		160-1212	2.208 Length, OEM # D6NN6513A, To 1990

401 C.I., (6.6L), 401T, Diesel, OHV, 12 Valve, ""TURBO""
L6 401 CID

401T **30**
BORE - 111.76mm/4.40""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1900E-1	1.900 O.D.,1.650 I.D.,0.3000 Depth,Alternate W/ Larger Depth
		SB1900E-2	1.900 O.D.,1.645 I.D.,0.2500 Depth,+20 O/S Available,OEM # D4NN6056A
		SB1900E-3	1.900 O.D.,1.650 I.D.,0.2200 Depth,OEM # D4NN6056A
	Exh	SB1600E-1	1.600 O.D.,1.340 I.D.,0.3000 Depth,+20 O/S Available,OEM # C9NN6057J
		SB1630E-1N	1.630 O.D.,1.335 I.D.,0.3120 Depth,Alternate +30 O/S W/ Larger Depth
Valve	Int	01694	1.842 Head Diameter,OEM # D8NN6507AA
	Exh	01695S	1.510 Head Diameter,Stellite Face,OEM # D8NN6505AA, Thick Margin Valve
Keeper	Both	121-1007	1 SQ Bead Type,OEM # F2NN6518AA
Guide	Both	140-6905	0.3750 I.D.,3.969 Length,0.6275 O.D.,Universal
Spring	Both	160-1211	2.390 Length,From 1990
		160-1212	2.208 Length,OEM # D6NN6513A, To 1990

FORD / PASSENGER CAR

Engine	Models	Line No.
3 Cylinder		
61 C.I., (1.0L), DOHC, GAS, FI, 12 Valve, Vin E, ""EcoBoost TURBO"" (2014-18)	Fiesta, Focus	1
4 Cylinder		
81 C.I., (1.3L), SOHC, GAS, CARB, FI, 8 Valve, Vin H, K (1988-97)	Aspire, Festiva	2
91 C.I., (1.5L), DOHC, GAS, FI, 16 Valve, Vin D, ""EcoBoost TURBO"" (2014-20)	Fusion	3
97 C.I., (1.6L), DOHC, GAS, FI, 16 Valve, Vin J, ""Duratec Ti-VCT"" (2011-19)	Fiesta	4
97 C.I., (1.6L), DOHC, GAS, FI, 16 Valve, Vin R, X, ""EcoBoost TURBO"" (2013-19)	Fiesta, Fusion	5
1598cc, (1.6L), SOHC, GAS, FI, 8 Valve, Vin 5, ""B6 Mazda"" (1988-89)	Tracer	6
1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 6, ""Mazda TURBO"" (1991-94)	Capri	7
1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin Z, ""Mazda"" (1991-94)	Capri	8
98 C.I., (1.6L), OHV, GAS, CARB, 8 Valve, Vin L, W (1971-73)	Capri, Pinto	9
98 C.I., (1.6L), OHV, GAS, CARB, 8 Valve (1978-80)	Fiesta	10
98 C.I., (1.6L), SOHC, GAS, CARB, 8 Valve, Vin 2 (1981-85)	Escort, EXP, LN7, Lynx	11
1836cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 8, ""Mazda"" (1991-96)	Escort, Tracer	12
116 C.I., (1.9L), SOHC, GAS, CARB, 8 Valve, Vin 9 (1985-86)	Escort, EXP, Lynx	13
116 C.I., (1.9L), SOHC, GAS, FI, 8 Valve, Vin 9, J (1987-96)	Escort, EXP, Lynx, Tracer	14
1989cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin A, ""Mazda"" (1993-97)	Probe	15
121 C.I., (2.0L), DOHC, BI-FUEL, GAS, FI, 16 Valve, Vin 3, Z, ""Zetec"" (1995-04)	Contour, Cougar, Escort, Focus, Mystique	16
121 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin 5, ""Zetec SVT"" (2002-04)	Focus SVT	17

FORD / PASSENGER CAR (Cont'd)

Engine	Models	Line No.
4 Cylinder		
122 C.I., (2.0L), SOHC, GAS, CARB, 8 Valve, Vin X (1971-74)	Pinto	18
122 C.I., (2.0L), SOHC, GAS, FI, 8 Valve, Vin P (1997-04)	Escort, Focus, Tracer	19
122 C.I., (2.0L), DOHC, FLEX, GAS, FI, 16 Valve, Vin 2, N, ""Duratec"" (2005-18)	Focus	20
122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin 9, ""EcoBoost TURBO"" (2013-20)	Focus, Fusion, MKZ, Special Service Police Sedan, Taurus	21
122 C.I., (2.0L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin U, ""Hybrid"" (2013-21)	C-Max, Fusion, MKZ, Police Responder Hybrid, SSV Plug-In Hybrid	22
2180cc, (2.2L), SOHC, GAS, FI, 12 Valve, Vin C, ""Mazda"" (1989-92)	Probe	23
2184cc, (2.2L), SOHC, GAS, FI, 12 Valve, Vin L, ""Mazda TURBO"" (1989-92)	Probe GT	24
140 C.I., (2.3L), SOHC, GAS, CARB, 8 Valve, Vin A, Y (1974-85)	Bobcat, Capri, Cougar, Fairmont, Granada, LTD, Marquis, Mustang, Mustang II, Pinto, Zephyr	25
140 C.I., (2.3L), SOHC, GAS, FI, 8 Valve, Vin T, W, ""TURBO"" (1983-88)	Capri, Cougar, Mustang, Thunderbird, XR4Ti	26
140 C.I., (2.3L), OHV, GAS, CARB, 8 Valve, Vin R, ""HSC"" (1984-84)	Tempo, Topaz	27
140 C.I., (2.3L), OHV, GAS, FI, 8 Valve, Vin S, X, ""HSC"" (1985-94)	Tempo, Topaz	28
140 C.I., (2.3L), SOHC, GAS, FI, 8 Valve, Vin A, M (1987-93)	Mustang	29
140 C.I., (2.3L), DOHC, GAS, FI, 16 Valve, Vin Z, ""Duratec"" (2004-09)	Focus, Fusion, Milan	30
140 C.I., (2.3L), DOHC, GAS, FI, 16 Valve, Vin D, H, 99D, 99H, ""EcoBoost TURBO"" (2015-21)	Focus, Mustang	31
152 C.I., (2.5L), DOHC, GAS, FI, 16 Valve, Vin A (2010-12)	Fusion, Milan	34
152 C.I., (2.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin 3, ""Duratec Hybrid"" (2010-12)	Fusion, Milan, MKZ	35
152 C.I., (2.5L), DOHC, FLEX, GAS, FI, 16 Valve, Vin 7, ""Duratec i-VCT"" (2013-20)	Fusion	36
153 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin D, ""HSC"" (1986-91)	Sable, Taurus	37
200 C.I., (3.3L), GAS, CARB, 8 Valve, ""Model A"" (1928-31)	Model A	51
200 C.I., (3.3L), GAS, CARB, 8 Valve, ""Model B"" (1932-34)	Model B	52
6 Cylinder		
144 C.I., (2.4L), OHV, GAS, CARB, 12 Valve, Vin D, S (1960-64)	Country Sedan, Country Squire, Falcon, Ranch Wagon	32
2450cc, (2.5L), DOHC, GAS, FI, 24 Valve, Vin B, ""Mazda KL"" (1993-97)	Probe	33
155 C.I., (2.5L), DOHC, GAS, FI, 24 Valve, Vin G, L, ""Duratec"" (1995-02)	Contour, Cougar, Mystique	38
156 C.I., (2.6L), OHV, GAS, CARB, 12 Valve, Vin U (1972-73)	Capri	39
164 C.I., (2.7L), DOHC, GAS, FI, 24 Valve, Vin P, ""EcoBoost TURBO"" (2017-20)	Continental, Fusion	40
170 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, Vin U (1961-72)	Comet, Country Sedan, Country Squire, Fairlane, Falcon, Maverick, Meteor, Mustang, Ranch Wagon, Sprint, Villager, Voyager	41

(Cont'd) FORD / PASSENGER CAR

Engine	Models	Line No.
6 Cylinder		
171 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, Vin Z (1974-79)	Bobcat, Capri, Mustang, Mustang II, Pinto	42
177 C.I., (2.9L), OHV, GAS, FI, 12 Valve, Vin V, ""Mercur"" (1988-89)	Scorpio	43
181 C.I., (3.0L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 1, G, S, ""Duratec"" (1996-12)	Five Hundred, Freestyle, Fusion, Milan, Montego, Sable, Taurus	44
181 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin S, ""Lincoln LS Duratec"" (2000-05)	Lincoln LS	45
181 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin C, ""EcoBoost TURBO"" (2017-20)	Continental, MKZ	46
2984cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin 1, W, ""VG30E Nissan"" (1993-98)	Villager	47
182 C.I., (3.0L), OHV, FLEX, GAS, FI, 12 Valve, Vin 1, 2, U, ""Vulcan"" (1986-07)	Probe, Sable, Taurus, Tempo, Topaz	48
182 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin Y, ""Yamaha SHO"" (1989-95)	Taurus	49
195 C.I., (3.2L), DOHC, GAS, FI, 24 Valve, Vin P, ""Yamaha SHO"" (1993-95)	Taurus	50
200 C.I., (3.3L), OHV, GAS, CARB, 12 Valve, Vin B, T, X (1963-83)	300, Country Sedan, Country Squire, Fairlane, Fairmont, Falcon, Galaxie, Galaxie 500, Granada, LTD, Maverick, Mustang, Ranch Wagon, Sprint, Thunderbird, Torino	53
213 C.I., (3.5L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 8, C, T, W, ""Duratec"" (2007-19)	Fusion, MKZ, Police Interceptor Sedan, Sable, Taurus, Taurus X	54
213 C.I., (3.5L), DOHC, GAS, FI, 24 Valve, Vin T, ""EcoBoost TURBO"" (2010-19)	MKS, Police Interceptor Sedan, Taurus	55
223 C.I., (3.7L), OHV, GAS, CARB, 12 Valve, Vin A, V (1954-64)	300, Club, Colony Park, Commuter, Country Sedan, Country Squire, Crestline, Custom, Custom 300, Customline, Del Rio Wagon, Fairlane, Galaxie, Galaxie 500, Mainline, Meteor, Monterey, Park Lane Wagon, Ranch Wagon, Skyliner, Starliner, Sunliner, Victoria, Villager	57
227 C.I., (3.7L), DOHC, FLEX, GAS, FI, 24 Valve, Vin K, M, R, ""Duratec"" (2009-20)	Continental, MKS, MKZ, Mustang, Police Interceptor Sedan	58
232 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 3 (1982-83)	Capri, Cougar, Granada, LTD, Marquis, Mustang, Thunderbird	59
232 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin 3, 4 (1984-04)	Capri, Continental, Cougar, LTD, Marquis, Mustang, Sable, Taurus, Thunderbird	60
240 C.I., (3.9L), OHV, GAS, CARB, 12 Valve, Vin B, E, V (1965-72)	Country Sedan, Country Squire, Custom, Custom 500, Galaxie, Galaxie 500, LTD, Ranch Wagon	63
245 C.I., (4.0L), SOHC, GAS, FI, 12 Valve, Vin N (2005-10)	Mustang	65
250 C.I., (4.1L), OHV, GAS, CARB, 12 Valve, Vin C, L (1969-80)	Comet, Country Sedan, Country Squire, Fairlane, Falcon, Gran Torino, Granada, Maverick, Monarch, Montego, Mustang, Ranch Wagon, Torino	66
8 Cylinder		
221 C.I., (3.6L), OHV, GAS, CARB, 16 Valve, Vin L (1962-63)	Country Sedan, Country Squire, Fairlane, Falcon, Ranch Wagon, Sprint	56
239 C.I., (3.9L), OHV, GAS, CARB, 16 Valve, Vin B, ""L-HEAD Flathead"" (1949-53)	Club, Country Sedan, Country Squire, Crestline, Custom, Customline, Deluxe, Ford, Mainline, Ranch Wagon, Sunliner, Victoria	61

FORD / PASSENGER CAR (Cont'd)

Engine	Models	Line No.
8 Cylinder		
239 C.I., (3.9L), OHV, GAS, CARB, 16 Valve (1954-54)	Club, Country Sedan, Country Squire, Crestline, Customline, Mainline, Ranch Wagon, Skyliner, Sunliner, Victoria	62
242 C.I., (3.9L), DOHC, GAS, FI, 32 Valve, Vin A (2000-06) .	LS, Thunderbird	64
255 C.I., (4.2L), OHV, GAS, CARB, 16 Valve, Vin D (1980-82)	Capri, Cougar, Fairmont, Granada, Grand Marquis, LTD, Marquis, Monarch, Mustang, Thunderbird, Zephyr	67
260 C.I., (4.3L), OHV, GAS, CARB, 16 Valve, Vin F (1962-64)	300, Caliente, Comet, Country Cruiser, Country Sedan, Country Squire, Custom, Custom 500, Cyclone, Fairlane, Falcon, Galaxie, Galaxie 500, Meteor, Mustang, Ranch Wagon, Sprint, Villager . .	68
272 C.I., (4.5L), OHV, GAS, CARB, 16 Valve (1955-57)	Club, Country Sedan, Country Squire, Custom, Custom 300, Customline, Del Rio Wagon, Fairlane, Mainline, Park Lane Wagon, Ranch Wagon, Skyliner, Sunliner, Thunderbird, Victoria	69
281 C.I., (4.6L), SOHC, CNG, FLEX, GAS, FI, 16 Valve, Vin 6, 9, V, W (1992-11)	Cougar, Crown Victoria, Grand Marquis, Thunderbird, Town Car .	70
281 C.I., (4.6L), SOHC, GAS, FI, 16 Valve, Vin X (1996-04) .	Mustang GT	71
281 C.I., (4.6L), SOHC, GAS, FI, 24 Valve, Vin H (2005-10) .	Mustang	72
281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin R, V, ""InTech"" (1993-04)	Continental, Marauder, Mark VIII, Mustang	73
281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin Y, ""Supercharged"" (2003-04)	Mustang SVT Cobra	74
289 C.I., (4.7L), OHV, GAS, CARB, 16 Valve, Vin A, C, D, K (1963-68)	300, Caliente, Capri, Comet, Commuter, Cougar, Country Cruiser, Country Sedan, Country Squire, Custom, Cyclone, Fairlane, Falcon, Galaxie, Galaxie 500, LTD, Meteor, Montego, Mustang, Ranch Wagon, Sprint, Villager, Voyager	75
292 C.I., (4.8L), OHV, GAS, CARB, 16 Valve (1955-62)	Club, Colony Park, Commuter, Country Sedan, Country Squire, Custom, Custom 300, Customline, Del Rio Wagon, Fairlane, Galaxie, Galaxie 500, Mainline, Meteor, Montclair, Monterey, Park Lane Wagon, Ranch Wagon, Skyliner, Starliner, Sunliner, Thunderbird, Victoria	76
302 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, Vin F (1968-82)	Capri, Comet, Continental, Cougar, Country Sedan, Country Squire, Custom, Custom 500, Cyclone, Fairlane, Fairmont, Falcon, Galaxie 500, Gran Torino, Granada, Grand Marquis, LTD, LTD II, Mark VI, Marquis, Maverick, Monarch, Montego, Mustang, Mustang II, Ranch Wagon, Thunderbird, Torino, Town Car, Versailles, Zephyr	77
302 C.I., (5.0L), OHV, GAS, FI, 16 Valve, Vin E, F, T (1982-95)	Capri, Colony Park, Continental, Cougar, Country Squire, Grand Marquis, LTD, LTD Crown Victoria, Mark VI, Mark VII, Mustang, Thunderbird, Town Car	78
302 C.I., (5.0L), DOHC, GAS, FI, 32 Valve, Vin F, 99F, ""Coyote"" (2011-21)	Mustang	79
302 C.I., (5.0L), DOHC, GAS, FI, 32 Valve, Vin U, 99U, ""Boss Coyote"" (2012-13)	Mustang Boss 302	80
302 C.I., (5.0L), DOHC, GAS, FI, 32 Valve, Vin 0, 990, ""Bullitt Coyote"" (2019-21)	Mustang	81
312 C.I., (5.1L), OHV, GAS, CARB, 16 Valve (1956-60)	Club, Colony Park, Commuter, Country Cruiser, Country Sedan, Country Squire, Custom, Custom 300, Customline, Del Rio Wagon, Fairlane, Mainline, Medalist, Montclair, Monterey, Park Lane, Park Lane Wagon, Ranch Wagon, Skyliner, Sunliner, Thunderbird, Victoria, Voyager	82

(Cont'd) FORD / PASSENGER CAR

Engine	Models	Line No.
8 Cylinder		
315 C.I., (5.2L), DOHC, GAS, FI, 32 Valve, Vin Z, 99Z, ""Voodoo"" (2015-21)	Mustang	83
330 C.I., (5.4L), DOHC, GAS, FI, 32 Valve, Vin S, ""Supercharged"" (2005-12)	GT, Mustang	84
332 C.I., (5.4L), OHV, GAS, CARB, 16 Valve (1958-59)	Club, Country Sedan, Country Squire, Custom 300, Del Rio Wagon, Fairlane, Galaxie, Ranch Wagon, Skyliner, Sunliner, Thunderbird, Victoria	85
351 C.I., (5.8L), OHV, GAS, CARB, 16 Valve, Vin H, Q, R, ""Cleveland"" (1972-74)	Colony Park, Cougar, Country Sedan, Country Squire, Custom, Custom 500, Galaxie 500, Gran Torino, LTD, Marquis, Montego, Monterey, Mustang, Ranch Wagon, Torino	86
351 C.I., (5.8L), OHV, GAS, CARB, 16 Valve, Vin H, ""Modified"" (1975-79)	Cougar, Custom 500, Elite, Gran Torino, Grand Marquis, LTD, LTD II, Marquis, Montego, Thunderbird, Torino	87
351 C.I., (5.8L), OHV, GAS, CARB, 16 Valve, Vin G, H, M, ""Windsor"" (1969-91)	Colony Park, Comet, Continental, Cougar, Country Sedan, Country Squire, Custom, Custom 500, Cyclone, Elite, Fairlane, Falcon, Galaxie 500, Gran Torino, Granada, Grand Marquis, LTD, LTD Crown Victoria, LTD II, Mark VI, Marquis, Monarch, Montego, Monterey, Mustang, Ranch Wagon, Thunderbird, Torino, Versailles	88
352 C.I., (5.8L), OHV, GAS, CARB, 16 Valve (1958-66)	300, Club, Colony Park, Commuter, Country Sedan, Country Squire, Custom, Custom 300, Custom 500, Del Rio Wagon, Fairlane, Galaxie, Galaxie 500, LTD, Meteor, Monterey, Ranch Wagon, Skyliner, Starliner, Sunliner, Thunderbird, Victoria	89
355 C.I., (5.8L), DOHC, GAS, FI, 32 Valve, Vin Z, ""Trinity Supercharged"" (2013-14)	Mustang Shelby GT500	90
361 C.I., (5.9L), OHV, GAS, CARB, 16 Valve, Vin W (1958-59)	Club, Country Sedan, Country Squire, Custom 300, Del Rio Wagon, Fairlane, Galaxie, Ranch Wagon, Skyliner, Sunliner, Victoria	91
390 C.I., (6.4L), OHV, GAS, CARB, 16 Valve, Vin 9, H, M, P, Q, R, S, X, Y, Z (1961-71)	300, Brougham, Caliente, Capri, Colony Park, Comet, Commuter, Cougar, Country Cruiser, Country Sedan, Country Squire, Custom, Custom 500, Cyclone, Fairlane, Galaxie, Galaxie 500, LTD, Marauder, Marquis, Meteor, Montclair, Montego, Monterey, Mustang, Park Lane, Ranch Wagon, Thunderbird, Torino, Villager, Voyager	92
400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin S (1971-79)	Colony Park, Continental, Cougar, Country Sedan, Country Squire, Custom, Custom 500, Cyclone, Elite, Galaxie 500, Gran Torino, Grand Marquis, LTD, LTD II, Mark V, Marquis, Montego, Monterey, Ranch Wagon, Thunderbird, Torino	93
406 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin B, G (1962-63)	300, Colony Park, Commuter, Country Sedan, Country Squire, Galaxie, Galaxie 500, Marauder, Monterey, Ranch Wagon, Thunderbird	94
410 C.I., (6.7L), OHV, GAS, CARB, 16 Valve, Vin M (1966-67)	Brougham, Colony Park, Commuter, Marauder, Marquis, Montclair, Monterey, Park Lane	95
428 C.I., (7.0L), OHV, GAS, CARB, 16 Valve, Vin P, Q, R (1966-70)	Brougham, Colony Park, Comet, Commuter, Cougar, Country Sedan, Country Squire, Custom, Custom 500, Cyclone, Fairlane, Galaxie, Galaxie 500, LTD, Marauder, Marquis, Montclair, Montego, Monterey, Mustang, Park Lane, Ranch Wagon, Thunderbird, Torino	96

FORD / PASSENGER CAR (Cont'd)

Engine	Models	Line No.
8 Cylinder		
429 C.I., (7.0L), OHV, GAS, CARB, 16 Valve, Vin C, J, K, N, P, Z (1968-73)	Colony Park, Continental, Cougar, Country Sedan, Country Squire, Custom, Custom 500, Cyclone, Fairlane, Falcon, Galaxie 500, Gran Torino, LTD, Marauder, Marquis, Montego, Monterey, Mustang, Ranch Wagon, Thunderbird, Torino	97
460 C.I., (7.5L), OHV, GAS, CARB, 16 Valve, Vin A, C (1968-78)	Colony Park, Continental, Cougar, Country Sedan, Country Squire, Custom, Custom 500, Elite, Galaxie 500, Gran Torino, Grand Marquis, LTD, Mark III, Mark IV, Mark V, Marquis, Montego, Monterey, Ranch Wagon, Thunderbird, Torino	98

1 61 C.I., (1.0L), DOHC, GAS, FI, 12 Valve, Vin E, ""EcoBoost TURBO"" FOC1.0-ECO
 2014-18 L3 61 CID BORE - 71.9mm/2.83""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2014-18	13457	1.067 Head Diameter
	Exh	2014-18	13458S	0.909 Head Diameter,Stellite Face
Keeper	Both	2014-18	121-1144	3 RD Bead Type
Stem Seal	Both	2014-18	122-1501	Positive Type,Viton Material,Top Hat Style

2 81 C.I., (1.3L), SOHC, GAS, CARB, FI, 8 Valve, Vin H, K FOC1.3
 1988-97 L4 81 CID BORE - 71mm/2.80""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-97	SB1375-51	1 $\frac{3}{8}$ O.D.,1.060T I.D.,0.2800 Depth
	Exh	1988-97	SB1250-52	1 $\frac{1}{4}$ O.D.,0.910T I.D.,0.2850 Depth
Valve	Int	1988-97	10118	1.261 Head Diameter
	Exh	1988-97	10153	1.103 Head Diameter
Stem Seal	Both	1988-97	122-1149	Positive Type,Viton Material,Metal Clad Style
Lifter	Both	1988-97	VL146	Hydraulic Lash Adjuster Type

3 91 C.I., (1.5L), DOHC, GAS, FI, 16 Valve, Vin D, ""EcoBoost TURBO"" FOC1.5-ECO
 2014-20 L4 91 CID BORE - 79mm/3.11""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2014-20	13455	1.185 Head Diameter
	Exh	2014-20	13456	0.980 Head Diameter
Keeper	Both	2014-20	121-1144	3 RD Bead Type
Stem Seal	Both	2014-20	122-1501	Positive Type,Viton Material,Top Hat Style
Guide	Both	2014-20	140-3214H	0.1966 I.D.,1.420 Length,0.3745 O.D.
Spring	Both	2014-20	160-1692	1.872 Length

4 97 C.I., (1.6L), DOHC, GAS, FI, 16 Valve, Vin J, ""Duratec Ti-VCT"" FOC1.6-DO16V
 2011-19 L4 97 CID BORE - 79mm/3.100""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2011-19	13453	1.185 Head Diameter
	Exh	2011-19	13454	0.949 Head Diameter
Keeper	Both	2011-19	121-1143	3 RD Bead Type
Stem Seal	Int	2011-19	122-1502	Positive Type,Viton Material,Top Hat Style
	Exh	2011-19	122-1503	Positive Type,Viton Material,Top Hat Style
Spring	Both	2011-19	160-1692	1.872 Length

(Cont'd) FORD / PASSENGER CAR

97 C.I., (1.6L), DOHC, GAS, FI, 16 Valve, Vin R, X, ""EcoBoost TURBO"" FOC1.6-ECO **5**
 2013-19 L4 97 CID BORE - 79mm/3.110""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2013-19	13455	1.185 Head Diameter
	Exh	2013-19	13456	0.980 Head Diameter
Keeper	Both	2013-19	121-1144	3 RD Bead Type
Stem Seal	Both	2013-19	122-1501	Positive Type,Viton Material,Top Hat Style
Guide	Both	2013-20	140-3214H	0.1966 I.D.,1.420 Length,0.3745 O.D.
Spring	Both	2013-19	160-1692	1.872 Length

1598cc, (1.6L), SOHC, GAS, FI, 8 Valve, Vin 5, ""B6 Mazda"" FOCB6 **6**
 1988-89 L4 98 CID BORE - 80mm/3.15""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-89	SB1625-54	1 $\frac{5}{8}$ O.D.,1.329 I.D.,0.2800 Depth
	Exh	1988-89	SB1437-66	1 $\frac{7}{16}$ O.D.,1.120 I.D.,0.3000 Depth
Stem Seal	Both	1988-89	122-1149	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1988-89	140-8205	0.2755 I.D.,1.990 Length,0.4745 O.D.,W/ Snap Ring
Lifter	Both	1988-89	VL146	Hydraulic Lash Adjuster Type

1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 6, ""Mazda TURBO"" FOC1.6-6 **7**
 1991-94 L4 98 CID BORE - 78mm/3.07""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1991-94	SB1250-61	1 $\frac{1}{4}$ O.D.,0.976 I.D.,0.1800 Depth
	Exh	1991-94	SB1062-50	1 $\frac{1}{16}$ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int	1991-94	10157	1.220 Head Diameter
	Exh	1991-94	10159	1.031 Head Diameter,Inconel
Stem Seal	Both	1991-94	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1991-94	140-8187	0.2371 I.D.,1.920 Length,0.4355 O.D.,W/ Snap Ring, Tapered End
	Exh	1991-94	140-8186	0.2371 I.D.,1.920 Length,0.4355 O.D.,W/ Snap Ring
Lifter	Both	1991-94	VL149	Hydraulic Bucket Type

1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin Z, ""Mazda"" FOC1.6-Z **8**
 1991-94 L4 98 CID BORE - 78mm/3.07""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1991-94	SB1250-61	1 $\frac{1}{4}$ O.D.,0.976 I.D.,0.1800 Depth
	Exh	1991-94	SB1062-50	1 $\frac{1}{16}$ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int	1991-94	10157	1.220 Head Diameter
	Exh	1991-94	10159	1.031 Head Diameter,Inconel
Guide	Int	1991-94	140-8187	0.2371 I.D.,1.920 Length,0.4355 O.D.,W/ Snap Ring, Tapered End
	Exh	1991-94	140-8186	0.2371 I.D.,1.920 Length,0.4355 O.D.,W/ Snap Ring
Lifter	Both	1991-94	VL149	Hydraulic Bucket Type

98 C.I., (1.6L), OHV, GAS, CARB, 8 Valve, Vin L, W FOC1.6L-W **9**
 1971-73 L4 98 CID BORE - 81mm/3.19""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1971-73	SB1562-5	1 $\frac{1}{16}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{1}{4}$ Depth
	Exh	1971-73	SB1375-1	1 $\frac{3}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth,+30 O/S Available, Also Available In Non-Magnetic (N) Material
Stem Seal	Both	1971-73	122-1039	Positive Type,Poly Material,1-Spring Style
		1971-73	122-1206	Positive Type,Viton Material,Top Hat Style
Guide	Both	1971-73	140-9205	0.3120 I.D.,2.000 Length,0.5020 O.D.

FORD / PASSENGER CAR (Cont'd)

9 98 C.I., (1.6L), OHV, GAS, CARB, 8 Valve, Vin L, W FOC1.6L-W
 (cont.) 1971-73 L4 98 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Spring	Both 1971-73	160-1005	1.480 Length

10 98 C.I., (1.6L), OHV, GAS, CARB, 8 Valve FOC1.6F
 1978-80 L4 98 CID BORE - 76.9mm/3.03"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1978-80 Exh 1978-80	SB1437-1 SB1375-1	1 ⁷ / ₁₆ O.D., 1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth 1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material
Stem Seal	Both 1978-80 1978-80	122-1039 122-1206	Positive Type, Poly Material, 1-Spring Style Positive Type, Viton Material, Top Hat Style
Guide	Both 1978-80	140-9205	0.3120 I.D., 2.000 Length, 0.5020 O.D.
Spring	Both 1978-80	160-1005	1.480 Length

11 98 C.I., (1.6L), SOHC, GAS, CARB, 8 Valve, Vin 2 FOC1.6-2
 1981-85 L4 98 CID BORE - 80mm/3.15"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1981-85 Exh 1981-85	SB1750-60 SB1562-54	1 ³ / ₄ O.D., 1.437T I.D., 0.3020 Depth 1 ¹ / ₁₆ O.D., 1.220T I.D., 0.3440 Depth
Valve	Int 1981-85 Exh 1981-85	01452 01451	1.654 Head Diameter 1.457 Head Diameter
Keeper	Both 1981-85	121-1083	3 RD Bead Type
Stem Seal	Both 1981-85 1981-85	122-1039 122-1206	Positive Type, Poly Material, 1-Spring Style Positive Type, Viton Material, Top Hat Style
Guide	Both 1981-85	140-7822	0.3175 I.D., 2.525 Length, 0.5348 O.D., Use 140-7822 If Concentricity of Original Guide is Within .002 - NOTE: Check Bore Size After Removal Of Old Guide, +2 O/S Available
Lifter	Both 1981-85	VL86	Hydraulic Type
Head Bolt Set	1981-85	220-1008	Torque To Yield, Services Engine
Head Saver Shim	1981-85	230-2009	New Hgt. - 5.0800; Min. Hgt. - 5.0550

12 1836cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 8, ""Mazda"" FOC1.8-8
 1991-96 L4 112 CID BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1991-96 Exh 1991-96	SB1437-74 SB1250-56	1 ⁷ / ₁₆ O.D., 1.162 I.D., 0.2300 Depth 1 ¹ / ₄ O.D., 0.905T I.D., 0.2300 Depth
Valve	Int 1991-96 Exh 1991-96	10234 10235	1.298 Head Diameter 1.103 Head Diameter
Stem Seal	Int 1994-96 Exh 1994-96	122-1246 122-1285	Positive Type, Viton Material, Metal Clad Style Positive Type, Viton Material, Metal Clad Style
Guide	Int 1991-96	140-8173	0.2370 I.D., 1.775 Length, 0.4360 O.D., W/ Snap Ring
Lifter	Both 1991-96	VL149	Hydraulic Bucket Type
Head Saver Shim	1991-96	230-2011	New Hgt. - 5.2681 - 5.2759; Min. Hgt. - 5.2677

13 116 C.I., (1.9L), SOHC, GAS, CARB, 8 Valve, Vin 9 FOC1.9-CA
 1985-86 L4 116 CID BORE - 82mm/3.23"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1985-86 Exh 1985-86	SB1750-60 SB1562-54	1 ³ / ₄ O.D., 1.437T I.D., 0.3020 Depth 1 ¹ / ₁₆ O.D., 1.220T I.D., 0.3440 Depth
Valve	Int 1985-86 Exh 1985-86	01452 01451	1.654 Head Diameter 1.457 Head Diameter

(Cont'd) FORD / PASSENGER CAR**116 C.I., (1.9L), SOHC, GAS, CARB, 8 Valve, Vin 9**
1985-86 L4 116 CIDFOC1.9-CA **13**
BORE - 82mm/3.23" (cont.)

PART	YEARS	PART NO.	NOTES
Keeper	Both	1985-86 121-1083	3 RD Bead Type
Guide	Both	1985-86 140-7822	0.3175 I.D.,2.525 Length,0.5348 O.D.,Use 140-7822 If Concentricity of Original Guide is Within .002 - Check Bore Size After Removal Of Old Guide, +2 O/S Available
Spring	Int	1985-86 160-1080	1.878 Length
Lifter	Both	1985-86 VL86	Hydraulic Type
Head Bolt Set		1985-86 220-1008	Torque To Yield,Services Engine
Head Saver Shim		1985-86 230-2009	New Hgt.- 5.0800; Min. Hgt.- 5.0550

116 C.I., (1.9L), SOHC, GAS, FI, 8 Valve, Vin 9, J
1987-96 L4 116 CIDFOC1.9-FI **14**
BORE - 82mm/3.23"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1987-96 SB1625-62	1 $\frac{5}{8}$ O.D.,1.320 I.D.,0.3000 Depth,1987-90 CFI ,1991-94 EFI, 1995 U.S. Built Only, W/ 1.535 Valve Head Dia.
		1987-96 SB1750-60	1 $\frac{3}{4}$ O.D.,1.437T I.D.,0.3020 Depth,1987-90 EFI, 1994 H.O., 1995-96 Mexico Built Only, W/1.654 Valve Head Dia.
	Exh	1987-96 SB1437-65	1 $\frac{7}{16}$ O.D.,1.105 I.D.,0.3220 Depth,1987-90 CFI ,1991-94 EFI, 1995 U.S. Built Only, W/ 1.339 Valve Head Dia.
		1987-96 SB1562-54	1 $\frac{9}{16}$ O.D.,1.220T I.D.,0.3440 Depth,1987-90 EFI, 1994 H.O., 1995-96 Mexico Built Only, 1.457 Valve Head Dia.
Valve	Int	1987-96 01452	1.654 Head Diameter,1987-90 EFI, 1994 H.O., 1995-96 Mexico Built Only.
		1987-96 01546	1.535 Head Diameter,1987-90 CFI ,1991-94 EFI, 1995-96 U.S. Built Only
	Exh	1987-96 01451	1.457 Head Diameter,1987-90 EFI, 1994 H.O., 1995-96 Mexico Built Only.
		1987-96 01545	1.339 Head Diameter,1987-90 CFI ,1991-94 EFI, 1995-96 U.S. Built Only
Keeper	Both	1987-96 121-1083	3 RD Bead Type
Stem Seal	Both	1992-96 122-1206	Positive Type,Viton Material,Top Hat Style
Guide	Both	1987-96 140-7822	0.3175 I.D.,2.525 Length,0.5348 O.D.,Use 140-7822 If Concentricity of Original Guide is Within .002 - Check Bore Size After Removal Of Old Guide, +2 O/S Available
Spring	Exh	1987-96 160-1080	1.878 Length,Incl. 1995-96 Mexico Built Eng.
Lifter	Both	1987-90 VL86	Hydraulic Type
		1987-96 VL113	Hydraulic Roller Type
Head Bolt Set		1987-96 220-1008	Torque To Yield,Services Engine
Head Saver Shim		1991-96 230-2009	New Hgt.- 5.0800; Min. Hgt.- 5.0550

1989cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin A, ""Mazda""
1993-97 L4 121 CIDFOC2.0-A **15**
BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES
Valve	Int	1993-97 10562	1.240 Head Diameter
	Exh	1993-97 10563	1.089 Head Diameter
Stem Seal	Int	1994-97 122-1246	Positive Type,Viton Material,Metal Clad Style
	Exh	1994-97 122-1285	Positive Type,Viton Material,Metal Clad Style
	Both	1993-93 122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1993-97 140-8561	0.2370 I.D.,1.490 Length,0.4358 O.D.,W/ Snap Ring
Lifter	Both	1993-97 VL149	Hydraulic Bucket Type
Head Bolt Set		1993-97 220-1028	Torque To Yield,Services Engine

FORD / PASSENGER CAR (Cont'd)

15 1989cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin A, ""Mazda"" FOC2.0-A
 (cont.) 1993-97 L4 121 CID BORE - 83mm/3.27""

PART	YEARS	PART NO.	NOTES
Head Saver Shim	1993-97	230-2089	New Hgt.- 4.900; Min. Hgt.- 4.894

16 121 C.I., (2.0L), DOHC, BI-FUEL, GAS, FI, 16 Valve, Vin 3, Z, ""Zetec"" FOC2.0-3
 1995-04 L4 121 CID BORE - 84.8mm/3.34""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1995-04	SB1339E-2	34mm O.D.,26mm I.D.,8.5mm Depth,Note: Adjustable Cutter Required Due To Insufficient Room Between Intake Seats
	Exh 1995-04	SB1187-51	1 $\frac{3}{16}$ O.D.,0.905 I.D.,0.2570 Depth
Valve	Int 1995-04	01745	1.260 Head Diameter,Includes Flex-Fuel Applications; NOTE: Except Focus SVT
	Exh 1995-04	01746	1.102 Head Diameter,Includes Flex-Fuel Applications; NOTE: Except Focus SVT
Keeper	Both 1995-04	121-1101	1 RD Bead Type
Stem Seal	Both 1995-04	122-1342	Positive Type,Viton Material,Top Hat Style
Guide	Both 1995-04	140-8662	0.2390 I.D.,1.420 Length,0.4727 O.D.
Spring	Int 1995-04	160-1580	1.694 Length,Conical
Head Bolt Set	1995-04	220-1121	Torque To Yield,Services Engine
Head Saver Shim	1995-04	230-2082	New Hgt.- 5.230 - 5.236; Min. Hgt 5.225

17 121 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin 5, ""Zetec SVT"" FOC2.0-SVT
 2002-04 L4 121 CID BORE - 84.8mm/3.34""

PART	YEARS	PART NO.	NOTES
Stem Seal	Both 2002-04	122-1342	Positive Type,Viton Material,Top Hat Style
Guide	Both 2002-04	140-8662	0.2390 I.D.,1.420 Length,0.4727 O.D.
Spring	Int 2002-04	160-1580	1.694 Length,Conical
Head Bolt Set	2002-04	220-1121	Torque To Yield

18 122 C.I., (2.0L), SOHC, GAS, CARB, 8 Valve, Vin X FOC2.0-X
 1971-74 L4 122 CID BORE - 90.8mm/3.50""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1971-74	SB1750-3	1 $\frac{3}{4}$ O.D.,1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth,Also Available In Non-Magnetic (N) Material
	Exh 1971-74	SB1500-1	1 $\frac{1}{2}$ O.D.,1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Exh 1971-74	01199	1.417 Head Diameter
Keeper	Both 1971-74	121-1083	3 RD Bead Type
Stem Seal	Both 1971-74	122-1039	Positive Type,Poly Material,1-Spring Style
Guide	Both 1971-74	140-9198	0.3174 I.D.,2.000 Length,0.5020 O.D.,Spiral I.D. Conversion Guide

19 122 C.I., (2.0L), SOHC, GAS, FI, 8 Valve, Vin P FOC2.0-P
 1997-04 L4 122 CID BORE - 84.8mm/3.34""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1997-04	SB1812-56	1 $\frac{13}{16}$ O.D.,1.535 I.D.,0.2930 Depth
	Exh 1997-04	SB1500-71	1 $\frac{1}{2}$ O.D.,1.240 I.D.,0.3170 Depth
Valve	Int 1997-04	02044	1.736 Head Diameter
	Exh 1997-04	01936	1.457 Head Diameter
Keeper	Both 1997-04	121-1083	3 RD Bead Type
Stem Seal	Both 1997-04	122-1206	Positive Type,Viton Material,Top Hat Style

(Cont'd) FORD / PASSENGER CAR

122 C.I., (2.0L), SOHC, GAS, FI, 8 Valve, Vin P FOC2.0-P **19**
 1997-04 L4 122 CID BORE - 84.8mm/3.34" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Both	1997-04	140-3012	0.3175 I.D.,2.540 Length,0.5339 O.D.
Spring	Both	1997-04	160-1398	2.025 Length,Conical
Lifter	Both	1997-04	VL113	Hydraulic Roller Type
Head Bolt Set		1997-04	220-1008	Torque To Yield,Services Engine
Head Saver Shim		1997-99	230-2009	New Hgt. - 5.0750 - 5.0850; Min. Hgt. - 5.0650
		2000-04	230-2131	New Hgt. - 5.0750 - 5.0850; Min. Hgt. - 5.0650

122 C.I., (2.0L), DOHC, FLEX, GAS, FI, 16 Valve, Vin 2, N, ""Duratec"" FOC2.0-N **20**
 2005-18 L4 122 CID BORE - 87.5mm/3.44"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2005-18	02006	1.378 Head Diameter
	Exh	2005-11	02007	1.181 Head Diameter
Keeper	Both	2005-18	121-1104	1 RD Bead Type
Stem Seal	Int	2005-18	122-1410	Positive Type,Viton Material,Top Hat Style
	Exh	2005-18	122-1411	Positive Type,Viton Material,Top Hat Style
Guide	Both	2005-18	140-3070	0.2170 I.D.,1.535 Length,0.4345 O.D.
Spring	Both	2005-18	160-1568	1.908 Length,Conical
Head Bolt Set		2005-18	220-1111	Torque To Yield,Services Engine
Head Saver Shim		2005-18	230-2144	New Hgt. - Min. Hgt. N/A

122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin 9, ""EcoBoost TURBO"" FOC2.0-ECO **21**
 2013-20 L4 122 CID BORE - 87.5mm/3.44"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2013-20	121-1104	1 RD Bead Type
Stem Seal	Int	2013-18	122-1410	Positive Type,Viton Material,Top Hat Style
	Exh	2013-20	122-1411	Positive Type,Viton Material,Top Hat Style
Spring	Exh	2017-20	160-1685	1.852 Length,Conical, Blue In Color,Fusion SE/Titanium; MKZ
	Both	2013-20	160-1684	1.877 Length,Conical, W/ White Stripe,OEM # CJ5Z6513A. Intake Only In 2018-19

122 C.I., (2.0L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin U, ""Hybrid"" FOC2.0-U **22**
 2013-21 L4 122 CID BORE - 87.5mm/3.44"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2013-20	02006	1.378 Head Diameter
	Exh	2013-20	02007	1.181 Head Diameter
Keeper	Both	2013-20	121-1104	1 RD Bead Type
Stem Seal	Int	2013-20	122-1410	Positive Type,Viton Material,Top Hat Style
	Exh	2013-20	122-1411	Positive Type,Viton Material,Top Hat Style
Guide	Both	2013-20	140-3070	0.2170 I.D.,1.535 Length,0.4345 O.D.
Spring	Both	2013-20	160-1684	1.877 Length,Conical, W/ White Stripe

2180cc, (2.2L), SOHC, GAS, FI, 12 Valve, Vin C, ""Mazda"" FOC2.2-C **23**
 1989-92 L4 133 CID BORE - 86.1mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1989-92	SB1375-56	1 $\frac{3}{8}$ O.D.,1.102 I.D.,0.2600 Depth
	Exh	1989-92	SB1437-75	1 $\frac{7}{16}$ O.D.,1.175 I.D.,0.2600 Depth
Valve	Int	1989-92	10162	1.280 Head Diameter
	Exh	1989-92	10163	1.339 Head Diameter
Stem Seal	Both	1989-92	122-1149	Positive Type,Viton Material,Metal Clad Style

FORD / PASSENGER CAR (Cont'd)

23 2180cc, (2.2L), SOHC, GAS, FI, 12 Valve, Vin C, ""Mazda"" FOC2.2-C
 (cont.) 1989-92 L4 133 CID BORE - 86.1mm/3.39""

PART	YEARS	PART NO.	NOTES
Guide	Both	1989-92 140-8142	0.2765 I.D.,2.088 Length,0.4760 O.D.,W/ Snap Ring
Lifter	Both	1989-92 VL146	Hydraulic Lash Adjuster Type
Head Saver Shim		1989-92 230-2086	New Hgt.- 3.6200 - 3.6240; Min. Hgt.- 3.6120

24 2184cc, (2.2L), SOHC, GAS, FI, 12 Valve, Vin L, ""Mazda TURBO"" FOC2.2-L
 1989-92 L4 133 CID BORE - 86.1mm/3.39""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1989-92 1989-92	SB1375-56 SB1437-75	1 ³ / ₈ O.D.,1.102 I.D.,0.2600 Depth 1 ⁷ / ₁₆ O.D.,1.175 I.D.,0.2600 Depth
Valve	Int Exh	1989-92 1989-92	10162 10164	1.280 Head Diameter 1.339 Head Diameter,Inconel
Stem Seal	Both	1989-92	122-1149	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1989-92	140-8142	0.2765 I.D.,2.088 Length,0.4760 O.D.,W/ Snap Ring
Lifter	Both	1989-92	VL146	Hydraulic Lash Adjuster Type
Head Saver Shim		1989-92	230-2086	New Hgt.- 3.6200 - 3.6240; Min. Hgt.- 3.6120

25 140 C.I., (2.3L), SOHC, GAS, CARB, 8 Valve, Vin A, Y FOC2.3-AY
 1974-85 L4 140 CID BORE - 96mm/3.78""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1974-85 1974-85	SB1812-2 SB1562-1	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth 1 ⁹ / ₁₆ O.D.,1 ¹⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int Exh	1974-85 1974-85	01598 01597	1.735 Head Diameter 1.500 Head Diameter
Keeper	Both	1974-85	121-1019	4 RD Bead Type
Stem Seal	Both	1974-85	122-1047	Positive Type,Poly Material,2-Ring Style
Guide	Both	1974-85	140-9206	0.3440 I.D.,2.188 Length,0.5020 O.D.,Flanged
Lifter	Both	1974-85	VL83	Hydraulic Lash Adjuster Type
Rocker Components	Both	1974-85	180-1037	Cam Follower
Head Bolt Set		1974-85	220-1006	Torque To Yield,When Used to Replace Non-TTY Bolts, Bolts Must Be Tightened to Specs as Follows: Torque to 51 ft. lbs., Loosen All Bolts, Then Torque to 51 ft. lbs., Then Tighten All Bolts an Additional 90 - 100 Degrees., Services Engine

26 140 C.I., (2.3L), SOHC, GAS, FI, 8 Valve, Vin T, W, ""TURBO"" FOC2.3-TW
 1983-88 L4 140 CID BORE - 96mm/3.78""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1983-88 1983-88	SB1812-2 SB1562-1	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth 1 ⁹ / ₁₆ O.D.,1 ¹⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int Exh	1983-88 1983-88	01598 01397	1.735 Head Diameter 1.500 Head Diameter,Inconel
Keeper	Both	1983-88	121-1019	4 RD Bead Type
Stem Seal	Both	1983-88	122-1075	Positive Type,Viton Material, Ring & Band Style
Guide	Both	1983-88	140-9206	0.3440 I.D.,2.188 Length,0.5020 O.D.,Flanged
Lifter	Both	1983-88	VL83	Hydraulic Lash Adjuster Type
Rocker Components	Both	1983-88	180-1037	Cam Follower

(Cont'd) **FORD / PASSENGER CAR**

140 C.I., (2.3L), SOHC, GAS, FI, 8 Valve, Vin T, W, ""TURBO"" FOC2.3-TW **26**
1983-88 L4 140 CID BORE - 96mm/3.78"" (cont.)

PART	YEARS	PART NO.	NOTES
Head Bolt Set	1983-88	220-1006	Torque To Yield,When Used to Replace Non-TTY Bolts, Bolts Must Be Tightened to Specs as Follows: Torque to 51 ft. lbs., Loosen All Bolts, Then Torque to 51 ft. lbs., Then Tighten All Bolts an Additional 90 - 100 Degrees., Services Engine

140 C.I., (2.3L), OHV, GAS, CARB, 8 Valve, Vin R, ""HSC"" FOC2.3HSC-CA **27**
1984-84 L4 140 CID BORE - 94mm/3.70""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1984-84 Exh 1984-84	SB1812-2 SB1562-36	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth 1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ³ / ₁₆ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int 1984-84 Exh 1984-84	01598 01597	1.735 Head Diameter 1.500 Head Diameter
Keeper	Both 1984-84	121-1019	4 RD Bead Type
Stem Seal	Int 1984-84 Exh 1984-84	122-1198 122-1006	Positive Type, Viton Material, Metal Clad Style Positive Type, Rubber Material, Ring & Band Style
Guide	Int 1984-84 Exh 1984-84	140-9206 140-9846	0.3440 I.D., 2.188 Length, 0.5020 O.D., Flanged 0.3440 I.D., 2.313 Length, 0.5020 O.D., Flanged, -5 U/S I.D. Available (140-9846U)
Lifter	Both 1984-84	VL35	Hydraulic Type
Rocker Components	Both 1984-84 1984-84	180-1029 183-1022	Rocker Arm Fulcrum

140 C.I., (2.3L), OHV, GAS, FI, 8 Valve, Vin S, X, ""HSC"" FOC2.3HSC-FI **28**
1985-94 L4 140 CID BORE - 94mm/3.70""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1985-94 Exh 1985-94	SB1812-2 SB1562-36	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth 1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ³ / ₁₆ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int 1985-94 Exh 1985-94	01598 01597	1.735 Head Diameter 1.500 Head Diameter
Keeper	Both 1985-94	121-1019	4 RD Bead Type
Stem Seal	Int 1985-94 Exh 1985-94	122-1200 122-1199	Positive Type, Viton Material, Metal Clad Style Positive Type, Viton Material, Metal Clad Style
Guide	Int 1985-94 Exh 1985-94	140-9206 140-9846	0.3440 I.D., 2.188 Length, 0.5020 O.D., Flanged 0.3440 I.D., 2.313 Length, 0.5020 O.D., Flanged, -5 U/S I.D. Available (140-9846U)
Lifter	Both 1985-94	VL35	Hydraulic Type
Rocker Components	Both 1985-94 1985-94	180-1029 183-1022	Rocker Arm Fulcrum

140 C.I., (2.3L), SOHC, GAS, FI, 8 Valve, Vin A, M FOC2.3-AM **29**
1987-93 L4 140 CID BORE - 96mm/3.78""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1987-93 Exh 1987-93	SB1812-2 SB1562-1	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth 1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int 1987-93 Exh 1987-93	01598 01597	1.735 Head Diameter 1.500 Head Diameter
Keeper	Both 1987-93	121-1019	4 RD Bead Type

FORD / PASSENGER CAR (Cont'd)

29 140 C.I., (2.3L), SOHC, GAS, FI, 8 Valve, Vin A, M FOC2.3-AM
 (cont.) 1987-93 L4 140 CID BORE - 96mm/3.78"

PART		YEARS	PART NO.	NOTES
Stem Seal	Int	1987-93	122-1200	Positive Type,Viton Material,Metal Clad Style
	Exh	1987-93	122-1199	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1987-93	140-9206	0.3440 I.D.,2.188 Length,0.5020 O.D.,Flanged
Lifter	Both	1987-93	VL83	Hydraulic Lash Adjuster Type
Rocker Components	Both	1987-90	180-1037	Cam Follower
Head Bolt Set		1987-93	220-1006	Torque To Yield,When Used to Replace Non-TTY Bolts, Bolts Must Be Tightened to Specs as Follows: Torque to 51 ft. lbs., Loosen All Bolts, Then Torque to 51 ft. lbs., Then Tighten All Bolts an Additional 90 - 100 Degrees., Services Engine

30 140 C.I., (2.3L), DOHC, GAS, FI, 16 Valve, Vin Z, ""Duratec"" FOC2.3-Z
 2004-09 L4 140 CID BORE - 87.4mm/3.44"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	2004-09	SB1250-62	1¼ O.D.,1.000 I.D.,0.3050 Depth
Valve	Int	2004-09	02006	1.378 Head Diameter
	Exh	2004-09	02007	1.181 Head Diameter
Keeper	Both	2004-09	121-1104	1 RD Bead Type
Stem Seal	Int	2004-09	122-1410	Positive Type,Viton Material,Top Hat Style
	Exh	2004-09	122-1411	Positive Type,Viton Material,Top Hat Style
Guide	Both	2004-09	140-3070	0.2170 I.D.,1.535 Length,0.4345 O.D.
Spring	Both	2004-09	160-1568	1.908 Length,Conical
Head Bolt Set		2004-09	220-1111	Torque To Yield,Services Engine
Head Saver Shim		2004-09	230-2144	New Hgt. - Min. Hgt. N/A

31 140 C.I., (2.3L), DOHC, GAS, FI, 16 Valve, Vin D, H, 99D, 99H, ""EcoBoost TURBO"" FOC2.3-ECO
 2015-21 L4 140 CID BORE - 87.6mm/3.45"

PART		YEARS	PART NO.	NOTES
Keeper	Both	2015-20	121-1104	1 RD Bead Type
Stem Seal	Int	2015-20	122-1410	Positive Type,Viton Material,Top Hat Style
	Exh	2015-20	122-1411	Positive Type,Viton Material,Top Hat Style
Spring	Both	2015-17	160-1684	1.877 Length,Conical, W/ White Stripe,OEM # CJ5Z6513A
		2018-20	160-1685	1.852 Length,Conical, Blue In Color

32 144 C.I., (2.4L), OHV, GAS, CARB, 12 Valve, Vin D, S FOC144
 1960-64 L6 144 CID BORE - 88.9mm/3.50"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1960-64	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1960-64	SB1375-4	1 ³ / ₈ O.D.,1 ¹ / ₈ I.D., ³ / ₁₆ Depth
Valve	Exh	1960-64	00564	1.268 Head Diameter
Keeper	Both	1960-64	121-1011	1 SQ Bead Type
Stem Seal	Both	1960-64	122-1034	Umbrella Type,Poly Material,Umbrella Style
Guide	Both	1960-64	140-6869	0.3125 I.D.,1.875 Length,0.4390 O.D.,Plain I.D. Conversion Guide
		1960-64	140-6977	0.3120 I.D.,2.281 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1960-64	140-9869	0.3125 I.D.,1.875 Length,0.4390 O.D.,Spiral I.D. Conversion Guide,Exact Length

(Cont'd) FORD / PASSENGER CAR**144 C.I., (2.4L), OHV, GAS, CARB, 12 Valve, Vin D, S**
1960-64 L6 144 CIDFOC144 **32**
BORE - 88.9mm/3.50"" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Both 1960-64	140-9977	0.3120 I.D.,2.281 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9977H), -5 U/S I.D. Available (140-9977U)
Spring	Both 1960-62 1963-64	160-1127 160-1131	2.000 Length,W/ Mechanical Lifters 1.828 Length,W/ Hydraulic Lifters
Lifter	Both 1963-64	VL9	Hydraulic Type
Push Rod	Both 1960-64	190-1280	8.021 Length,W/ Mechanical Lifters

2450cc, (2.5L), DOHC, GAS, FI, 24 Valve, Vin B, ""Mazda KL""
1993-97 V6 152 CIDFOC2.5P **33**
BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES
Stem Seal	Int 1993-97 Exh 1993-97	122-1246 122-1285	Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style
Guide	Both 1993-97	140-8561	0.2370 I.D.,1.490 Length,0.4358 O.D.,W/ Snap Ring
Lifter	Both 1993-97	VL149	Hydraulic Bucket Type

152 C.I., (2.5L), DOHC, GAS, FI, 16 Valve, Vin A
2010-12 L4 152 CIDFOC2.5DC-A **34**
BORE - 88.9mm/3.50""

PART	YEARS	PART NO.	NOTES
Valve	Int 2010-12 Exh 2010-12	02006 02007	1.378 Head Diameter 1.181 Head Diameter
Keeper	Both 2010-12	121-1104	1 RD Bead Type
Stem Seal	Int 2010-12 Exh 2010-12	122-1410 122-1411	Positive Type,Viton Material,Top Hat Style Positive Type,Viton Material,Top Hat Style
Guide	Both 2010-12	140-3070	0.2170 I.D.,1.535 Length,0.4345 O.D.
Spring	Both 2010-12	160-1568	1.908 Length,Conical
Head Bolt Set	2010-12	220-1111	Torque To Yield,Services Engine

152 C.I., (2.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin 3, ""Duratec Hybrid""

2010-12 L4 152 CID

FOC2.5DCE-3 **35**
BORE - 88.9mm/3.50""

PART	YEARS	PART NO.	NOTES
Valve	Int 2010-12 Exh 2010-12	02006 02007	1.378 Head Diameter 1.181 Head Diameter
Keeper	Both 2010-12	121-1104	1 RD Bead Type
Stem Seal	Int 2010-12 Exh 2010-12	122-1410 122-1411	Positive Type,Viton Material,Top Hat Style Positive Type,Viton Material,Top Hat Style
Guide	Both 2010-12	140-3070	0.2170 I.D.,1.535 Length,0.4345 O.D.
Spring	Both 2010-12	160-1568	1.908 Length,Conical
Head Bolt Set	2010-12	220-1111	Torque To Yield,Services Engine

152 C.I., (2.5L), DOHC, FLEX, GAS, FI, 16 Valve, Vin 7, ""Duratec i-VCT""

2013-20 L4 152 CID

FOC2.5DVCT **36**
BORE - 88.9mm/3.50""

PART	YEARS	PART NO.	NOTES
Valve	Int 2013-20 Exh 2013-20	02006 02007	1.378 Head Diameter 1.181 Head Diameter
Keeper	Both 2013-20	121-1104	1 RD Bead Type
Stem Seal	Int 2013-20 Exh 2013-20	122-1410 122-1411	Positive Type,Viton Material,Top Hat Style Positive Type,Viton Material,Top Hat Style

FORD / PASSENGER CAR (Cont'd)

36 152 C.I., (2.5L), DOHC, FLEX, GAS, FI, 16 Valve, Vin 7, ""Duratec i-VCT"" FOC2.5DVCT
(cont.) 2013-20 L4 152 CID BORE - 88.9mm/3.50""

PART	YEARS	PART NO.	NOTES
Guide	Both	140-3070	0.2170 I.D., 1.535 Length, 0.4345 O.D.
Spring	Both	160-1684	1.877 Length, Conical, W/ White Stripe

37 153 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin D, ""HSC"" FOC2.5HSC-D
1986-91 L4 153 CID BORE - 93.9mm/3.70""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1812-2 SB1562-36	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 7/ ₃₂ Depth 1 ¹ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 3/ ₁₆ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int Exh	01598 01597	1.735 Head Diameter 1.500 Head Diameter
Keeper	Both	121-1019	4 RD Bead Type
Stem Seal	Int Exh	122-1200 122-1199	Positive Type, Viton Material, Metal Clad Style Positive Type, Viton Material, Metal Clad Style
Guide	Int Exh	140-9206 140-9846	0.3440 I.D., 2.188 Length, 0.5020 O.D., Flanged 0.3440 I.D., 2.313 Length, 0.5020 O.D., Flanged, -5 U/S I.D. Available (140-9846U)
Lifter	Both	VL35	Hydraulic Type
Rocker Components	Both	180-1029	Rocker Arm

38 155 C.I., (2.5L), DOHC, GAS, FI, 24 Valve, Vin G, L, ""Duratec"" FOC2.5D
1995-02 V6 155 CID BORE - 82.3mm/3.24""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1375-55 SB1125-52	1 ¹ / ₈ O.D., 1.120 I.D., 0.3250 Depth 1 ¹ / ₈ O.D., 0.825T I.D., 0.2850 Depth, W/ 1.023 Valve Head Dia.
Valve	Int Exh	01728 01729	1.260 Head Diameter 1.023 Head Diameter
Keeper	Both	121-1082	3 RD Bead Type
Stem Seal	Both	122-1229	Positive Type, Viton Material, Top Hat Style
Guide	Both	140-8560	0.2370 I.D., 1.880 Length, 0.4953 O.D.
Spring	Both	160-1490	1.847 Length
Lifter	Both	VL107	Hydraulic Lash Adjuster Type
Rocker Components	Both	180-1333	Roller Cam Follower

39 156 C.I., (2.6L), OHV, GAS, CARB, 12 Valve, Vin U FOC156MU
1972-73 V6 156 CID BORE - 90mm/3.54""

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	01285 01300	1.570 Head Diameter, 1 Groove 1.269 Head Diameter, 3 Groove
Keeper	Int Exh	121-1011 121-1083	1 SQ Bead Type 3 RD Bead Type
Guide	Both	140-9198	0.3174 I.D., 2.000 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Push Rod	Both	190-1435	5.429 Length

40 164 C.I., (2.7L), DOHC, GAS, FI, 24 Valve, Vin P, ""EcoBoost TURBO"" FOC2.7P
2017-20 V6 164 CID BORE - 83.1mm/3.27""

PART	YEARS	PART NO.	NOTES
Valve	Int	13428	1.280 Head Diameter

(Cont'd) **FORD / PASSENGER CAR**

164 C.I., (2.7L), DOHC, GAS, FI, 24 Valve, Vin P, ""EcoBoost TURBO"" FOC27P **40**
2017-20 V6 164 CID BORE - 83.1mm/3.27"" (cont.)

PART	YEARS	PART NO.	NOTES
Valve	Exh 2017-20	13429	1.114 Head Diameter,Inconel
Keeper	Both 2017-20	121-1140	3 RD Bead Type
Stem Seal	Both 2017-20	122-1493	Positive Type,Viton Material,Top Hat Style
Spring	Both 2017-20	160-1666	2.070 Length,Conical
Lifter	Both 2017-20	VL575	Hydraulic Lash Adjuster Type
Rocker Components	Both 2017-20	180-1342	Roller Cam Follower

170 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, Vin U FOC170U **41**
1961-72 L6 170 CID BORE - 88.8mm/3.50""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1961-64	SB1625-1	1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.527 Valve Head Dia.
		SB1750-2	1 ³ / ₄ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.651 Valve Head Dia.
	Exh 1961-64	SB1375-4	1 ³ / ₈ O.D.,1 ¹ / ₈ I.D., ³ / ₁₆ Depth,W/ 1.268 Valve Head Dia.
		SB1437-3	1 ⁷ / ₁₆ O.D.,1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.390 Valve Head Dia.
Valve	Int 1961-64	00627	1.527 Head Diameter
		01268	1.651 Head Diameter
	Exh 1961-64	00564	1.268 Head Diameter
		01266	1.390 Head Diameter,+15 O/S Stem Available
Keeper	Both 1961-72	121-1011	1 SQ Bead Type
Stem Seal	Both 1961-72	122-1034	Umbrella Type,Poly Material,Umbrella Style
Guide	Both 1961-72	140-6869	0.3125 I.D.,1.875 Length,0.4390 O.D.,Plain I.D. Conversion Guide
		140-6977	0.3120 I.D.,2.281 Length,0.5020 O.D.,Plain I.D. Conversion Guide
	1961-72	140-9869	0.3125 I.D.,1.875 Length,0.4390 O.D.,Spiral I.D. Conversion Guide
		140-9977	0.3120 I.D.,2.281 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9977H), -5 U/S I.D. Available (140-9977U)
Spring	Both 1961-64	160-1127	2.000 Length,W/ Mechanical Lifters
		160-1131	1.828 Length,W/ Hydraulic Lifters
Lifter	Both 1965-72	VL9	Hydraulic Type
Push Rod	Both 1961-64	190-1280	8.021 Length,W/ Mechanical Lifters
		190-1327	8.350 Length,-54 U/S Available (190-1327U54),W/ Hyd. Lifters

171 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, Vin Z FOC171Z **42**
1974-79 V6 171 CID BORE - 93mm/3.66""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1974-79	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh 1974-79	SB1375-1	1 ³ / ₈ O.D.,1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth,+30 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int 1974-79	01285	1.570 Head Diameter,1 Groove
	Exh 1974-79	01300	1.269 Head Diameter,3 Groove

FORD / PASSENGER CAR (Cont'd)

42 171 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, Vin Z FOC171Z
 (cont.) 1974-79 V6 171 CID BORE - 93mm/3.66"

PART		YEARS	PART NO.	NOTES
Keeper	Int	1974-79	121-1011	1 SQ Bead Type
	Exh	1974-79	121-1083	3 RD Bead Type
Stem Seal	Both	1974-79	122-1039	Positive Type, Poly Material, 1-Spring Style
Guide	Both	1974-79	140-7198	0.3175 I.D., 2.000 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1974-79	140-9198	0.3174 I.D., 2.000 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Rocker Components	Both	1974-79	180-1007	Rocker Arm, Adjustable, W/ .635 Pad Width, Replaces Narrow Pad Arm
Push Rod	Both	1974-79	190-1435	5.429 Length

43 177 C.I., (2.9L), OHV, GAS, FI, 12 Valve, Vin V, ""Merkur"" FOC2.9V
 1988-89 V6 177 CID BORE - 93mm/3.66"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1988-89	SB1750-2	1¼ O.D., 1½ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1988-89	SB1500-1	1½ O.D., 1¼ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1988-89	10385	1.656 Head Diameter, 1 Groove, +15 O/S Stem Available
	Exh	1988-89	10386	1.418 Head Diameter, 3 Groove, +15 O/S Stem Available
Keeper	Int	1988-89	121-1011	1 SQ Bead Type
	Exh	1988-89	121-1083	3 RD Bead Type
Stem Seal	Both	1988-89	122-1067	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1988-89	140-9198	0.3174 I.D., 2.000 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Lifter	Both	1988-89	VL9	Hydraulic Type
Rocker Components	Both	1988-89	180-1007	Rocker Arm, Adjustable, W/ .635 Pad Width, Replaces Narrow Pad Arm
Push Rod	Both	1988-89	190-1435	5.429 Length
Head Bolt Set		1988-89	220-1016	Torque To Yield, Services Engine

44 181 C.I., (3.0L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 1, G, S, ""Duratec"" FOC3.0-DC24V
 1996-12 V6 181 CID BORE - 89mm/3.5039"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1996-12	SB1250-56	1¼ O.D., 0.905T I.D., 0.2300 Depth
Valve	Int	1996-12	01787	1.378 Head Diameter
	Exh	1996-12	01788	1.181 Head Diameter
Keeper	Both	1996-12	121-1082	3 RD Bead Type, OEM # F5RZ6518B
Stem Seal	Both	1996-12	122-1229	Positive Type, Viton Material, Top Hat Style
Guide	Both	1996-12	140-8560	0.2370 I.D., 1.880 Length, 0.4953 O.D.
Spring	Both	1996-09	160-1490	1.847 Length
Lifter	Both	1996-12	VL107	Hydraulic Lash Adjuster Type
Rocker Components	Both	1996-12	180-1333	Roller Cam Follower
Head Bolt Set		1996-06	220-1094	Torque To Yield, 2 Required
Head Saver Shim		1996-09	230-2130L	Left, New Hgt. 5.155" - 5.163" - Min. Hgt. - N/A
		1996-09	230-2130R	Right, New Hgt. 5.155" - 5.163" - Min. Hgt. - N/A

(Cont'd) FORD / PASSENGER CAR

181 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin S, ""Lincoln LS Duratec"" 3.0-DC24V-LS 45
 2000-05 V6 181 CID BORE - 89mm/3.5039""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 01/00-07/00	SB1250-56	1¼ O.D.,0.905T I.D.,0.2300 Depth,W/6mm Stem Dia.
Valve	Int 01/00-07/00	01787	1.378 Head Diameter,W/6mm Stem Dia.
	08/00-12/05	02245	1.378 Head Diameter,W/5.5mm Stem Dia.
	Exh 01/00-07/00	01788	1.181 Head Diameter,W/6mm Stem Dia.
	08/00-12/05	02246	1.185 Head Diameter,W/5.5mm Stem Dia.
Keeper	Both 01/00-07/00	121-1082	3 RD Bead Type,W/6mm Stem Dia.
	08/00-12/05	121-1103	1 RD Bead Type,W/5.5mm Stem Dia.
Stem Seal	Both 01/00-07/00	122-1229	Positive Type,Viton Material,Top Hat Style,W/6mm Stem Dia.
Guide	Both 01/00-07/00	140-8560	0.2370 I.D.,1.880 Length,0.4953 O.D.,W/6mm Stem Dia.
	08/00-12/05	140-3028	0.2175 I.D.,1.455 Length,0.3774 O.D.,W/5.5mm Stem Dia.
Spring	Both 01/00-07/00	160-1490	1.847 Length,W/6mm Stem Dia.
Lifter	Both 01/00-07/00	VL107	Hydraulic Lash Adjuster Type,W/6mm Stem Dia.
Rocker Components	Both 2000-00	180-1333	Roller Cam Follower,W/6mm Stem Dia.
Head Bolt Set	01/00-07/00	220-1094	Torque To Yield,W/6mm Stem Dia., 2 Required
Head Saver Shim	01/00-07/00	230-2130L	Left,W/6mm Stem Dia., New Hgt. 5.155"" - 5.163"" - Min. Hgt. - N/A
	01/00-07/00	230-2130R	Right,W/6mm Stem Dia., New Hgt. 5.155"" - 5.163"" - Min. Hgt. - N/A

181 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin C, ""EcoBoost TURBO"" FOC3.0-ECO 46
 2017-20 V6 181 CID BORE - 85.4mm/3.36""

PART	YEARS	PART NO.	NOTES
Valve	Int 2017-20	13428	1.280 Head Diameter
	Exh 2017-19	13429	1.114 Head Diameter,Inconel,MKZ
Keeper	Both 2017-20	121-1140	3 RD Bead Type
Stem Seal	Both 2017-20	122-1493	Positive Type,Viton Material,Top Hat Style
Spring	Both 2017-20	160-1666	2.070 Length,Conical
Lifter	Both 2017-20	VL575	Hydraulic Lash Adjuster Type
Rocker Components	Both 2017-20	180-1342	Roller Cam Follower

2984cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin 1, W, ""VG30E Nissan"" FOCVG30E 47
 1993-98 V6 182 CID BORE - 87mm/3.42""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1993-98	SB1812-55	1 ³ / ₁₆ O.D.,1½T I.D.,0.2780 Depth
Valve	Int 1993-98	10281	1.657 Head Diameter
	Exh 1993-95	10282	1.382 Head Diameter
	1996-98	10282S	1.382 Head Diameter,Stellite Face
Keeper	Both 1993-98	121-1059	1 RD Bead Type
Stem Seal	Int 1993-98	122-1139	Positive Type,Viton Material,Metal Clad Style
	Exh 1993-98	122-1263	Positive Type,Viton Material,Ring & Spring Style
Guide	Int 1993-98	140-7873	0.2760 I.D.,2.315 Length,0.4423 O.D.,Head Must Be Reamed To .440/.4408 For Guide Installation
	1993-98	140-8388	0.2760 I.D.,2.315 Length,0.4345 O.D.,Std. O.D.
	Exh 1993-98	140-8017	0.3160 I.D.,2.500 Length,0.4820 O.D.,Head Must Be Reamed To .4793/.4802 For Guide Installation
	1993-98	140-8389	0.3160 I.D.,2.500 Length,0.4740 O.D.,Std O.D.
Spring	Both 1993-98	160-1216	2.065 Length,Outer
Rocker Components	Both 1993-98	180-1264	Cam Follower

FORD / PASSENGER CAR (Cont'd)

47 2984cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin 1, W, ""VG30E Nissan"" FOCVG30E
 (cont.) 1993-98 V6 182 CID BORE - 87mm/3.42""

PART	YEARS	PART NO.	NOTES
Head Saver Shim	1993-98	230-2015	New Hgt.- 4.2047 - 4.2200; Min. Hgt.- 4.1967, 2 Required

48 182 C.I., (3.0L), OHV, FLEX, GAS, FI, 12 Valve, Vin 1, 2, U, ""Vulcan"" FOC182U
 1986-07 V6 182 CID BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1986-07	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh 1986-07	SB1437-3	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int 1986-99	01536	1.661 Head Diameter, 0.3130 Stem Dia.; Includes ""Flex-Fuel"" Applications
	2000-07	02046	1.661 Head Diameter, 7mm Stem Dia.; Includes ""Flex-Fuel"" Applications
	Exh 1986-99	01535	1.371 Head Diameter, 0.3125 Stem Dia.; Includes ""Flex-Fuel"" Applications
	2000-07	02047	1.371 Head Diameter, 7mm Stem Dia.; Includes ""Flex-Fuel"" Applications
Keeper	Both 1986-99	121-1083	3 RD Bead Type
	2000-07	121-1084	3 RD Bead Type, Use W/ 7mm Stem Dia.
Stem Seal	Int 1986-99	122-1065	Positive Type, Viton Material, Ring & Band Style, Use With 5/16 Stem Dia.
	2000-07	122-1357	Positive Type, Viton Material, Ring & Band Style, Green, Use W/ 7mm Stem Dia.
	Exh 1986-99	122-1066	Positive Type, Viton Material, Ring & Band Style, Use With 5/16 Stem Dia.
	2000-07	122-1358	Positive Type, Viton Material, Ring & Band Style, Orange, Use W/ 7mm Stem Dia.
Guide	Both 1986-99	140-9204	0.3150 I.D., 2.200 Length, 0.4390 O.D., Use With 5/16 Stem Dia.
	2000-07	140-3048	0.2768 I.D., 2.500 Length, 0.4747 O.D., Use W/ 7mm Stem Dia., W/ Seal Boss; NOTE: W/ 4747 O. D.
	2000-07	140-3066	0.2768 I.D., 2.200 Length, 0.4390 O.D., Use W/ 7mm Stem Dia., W/O Seal Boss; NOTE: W/ 4390 O.D.
Spring	Both 1986-99	160-1072	1.840 Length
	2000-07	160-1437	1.834 Length, Conical
Lifter	Both 1986-91	VL35	Hydraulic Type
	1992-07	VL100	Hydraulic Roller Type
Rocker Components	Both 1986-07	180-1315	Rocker Arm
Push Rod	Both 1992-96	190-1524	5.332 Length, W/ Roller Lifters
	1997-07	190-1541	5.297 Length, W/ Roller Lifters
Head Bolt Set	1986-98	220-1005	Torque To Yield, Services Engine; To 7/13/98. Dia: 11mm
	1998-07	220-1096	Torque To Yield, Services Engine; From 7/14/98. Dia: 10mm
Head Saver Shim	1986-07	230-2177	New Hgt. - 3.620 - 3.630; Min. Hgt. - N/A

49 182 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin Y, ""Yamaha SHO"" 3.0Y
 1989-95 V6 182 CID BORE - 89mm/3.5039""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1989-95	SB1437-2	1 ⁷ / ₁₆ O.D., 1 ¹ / ₃₂ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh 1989-95	SB1312-3	1 ⁵ / ₁₆ O.D., 1.000 I.D., 7/32 Depth
Guide	Both 1989-95	140-8559	0.2365 I.D., 1.575 Length, 0.4360 O.D.

(Cont'd) **FORD / PASSENGER CAR**

195 C.I., (3.2L), DOHC, GAS, FI, 24 Valve, Vin P, ""Yamaha SHO"" **3.2P 50**
1993-95 V6 195 CID BORE - 91.4mm/3.60""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1993-95	SB1437-2 17/16 O.D., 17/32 I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1993-95		SB1312-3 19/16 O.D., 1.000 I.D., 7/32 Depth
Guide	Both	1993-95	140-8559 0.2365 I.D., 1.575 Length, 0.4360 O.D.

200 C.I., (3.3L), GAS, CARB, 8 Valve, ""Model A"" **A 51**
1928-31 L4 200 CID BORE - 98.425mm/3.80""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Both	1928-31	SB1625-1 15/8 O.D., 13/8 I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Both	1928-31	00100 1.537 Head Diameter, Stainless Steel Version

200 C.I., (3.3L), GAS, CARB, 8 Valve, ""Model B"" **B 52**
1932-34 L4 200 CID BORE - 98.425mm/3.80""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Both	1932-34	SB1625-1 15/8 O.D., 13/8 I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Both	1932-34	00100 1.537 Head Diameter, Stainless Steel Version

200 C.I., (3.3L), OHV, GAS, CARB, 12 Valve, Vin B, T, X **200XBT 53**
1963-83 L6 200 CID BORE - 93.5mm/3.68""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1963-64	SB1625-1 15/8 O.D., 13/8 I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.527 Valve Head Dia.
		1965-76	SB1750-2 13/4 O.D., 11/2 I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.651 Valve Head Dia.
		1977-83	SB1812-4 113/16 O.D., 11/16 I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.751 Valve Head Dia.
	Exh	1963-64	SB1375-4 13/8 O.D., 11/8 I.D., 3/16 Depth, W/ 1.268 Valve Head Dia.
Valve	Int	1963-64	00627 1.527 Head Diameter
		1965-76	01268 1.651 Head Diameter
		1977-83	01357 1.751 Head Diameter
	Exh	1963-64	00564 1.268 Head Diameter
		1965-83	01266 1.390 Head Diameter, +15 O/S Stem Available
Keeper	Both	1963-83	121-1011 1 SQ Bead Type
Stem Seal	Both	1963-83	122-1034 Umbrella Type, Poly Material, Umbrella Style
Guide	Both	1963-83	140-6869 0.3125 I.D., 1.875 Length, 0.4390 O.D., Plain I.D. Conversion Guide
		1963-83	140-6977 0.3120 I.D., 2.281 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1963-83	140-9869 0.3125 I.D., 1.875 Length, 0.4390 O.D., Spiral I.D. Conversion Guide
Spring	Both	1965-83	160-1131 1.828 Length, W/ Hydraulic Lifters
Lifter	Both	1963-83	VL9 Hydraulic Type
Push Rod	Both	1963-64	190-1280 8.021 Length, W/ Mechanical Lifters

FORD / PASSENGER CAR (Cont'd)

53 200 C.I., (3.3L), OHV, GAS, CARB, 12 Valve, Vin B, T, X 200XB
 (cont.) 1963-83 L6 200 CID BORE - 93.5mm/3.68"

PART	YEARS	PART NO.	NOTES	
Push Rod	Both	1965-83	190-1327	8.350 Length,-54 U/S Available (190-1327U54),W/ Non-Adj. Rocker Arms, (Exc. 1969-72 Bronco)

54 213 C.I., (3.5L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 8, C, T, W, FOC3.5DC-24V
 ""Duratec"" BORE - 92.5mm/3.640"
 2007-19 V6 213 CID

PART	YEARS	PART NO.	NOTES	
Valve	Int	2007-19	13225	1.457 Head Diameter
	Exh	2007-19	13226	1.220 Head Diameter
Keeper	Both	2007-19	121-1104	1 RD Bead Type
Stem Seal	Both	2007-19	122-1427	Positive Type,Viton Material,Top Hat Style
Guide	Both	2007-19	140-3170	0.2177 I.D.,1.395 Length,0.4355 O.D.,Chamfer I.D. to Combustion
Spring	Both	2007-19	160-1599	1.858 Length,Conical

55 213 C.I., (3.5L), DOHC, GAS, FI, 24 Valve, Vin T, ""EcoBoost TURBO"" FOC-3.5
 2010-19 V6 213 CID BORE - 92.5mm/3.64"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2010-19	13344	1.457 Head Diameter
	Exh	2010-19	13345S	1.220 Head Diameter,Inconel, Stellite Face
Keeper	Both	2010-19	121-1104	1 RD Bead Type
Stem Seal	Both	2010-19	122-1427	Positive Type,Viton Material,Top Hat Style
Guide	Both	2010-19	140-3170	0.2177 I.D.,1.395 Length,0.4355 O.D.,Chamfer I.D. to Combustion
Spring	Both	2010-19	160-1631	2.176 Length,Conical
Head Saver Shim		2010-19	230-2207L	New Hgt.-4.8440", Min. Hgt.-N/A; NOTE: Left Side
		2010-19	230-2207R	New Hgt.-4.8440", Min. Hgt.-N/A; NOTE: Right Side

56 221 C.I., (3.6L), OHV, GAS, CARB, 16 Valve, Vin L FOC221
 1962-63 V8 221 CID BORE - 88.9mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1962-63	SB1625-1	1 $\frac{5}{8}$ O.D.,1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1962-63	SB1500-1	1 $\frac{1}{2}$ O.D.,1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Keeper	Both	1962-63	121-1011	1 SQ Bead Type
Stem Seal	Both	1962-63	122-1006	Positive Type,Rubber Material, Ring & Band Style
Guide	Both	1962-63	140-6872	0.3120 I.D.,2.281 Length,0.4390 O.D.,Plain I.D. Conversion Guide
		1962-63	140-9872	0.3120 I.D.,2.281 Length,0.4390 O.D.,Spiral I.D. Conversion Guide
		1962-63	140-9977	0.3120 I.D.,2.281 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9977H), -5 U/S I.D. Available (140-9977U)
Spring	Both	1962-63	160-1120	2.222 Length,W/O Rotator
Lifter	Both	1962-63	VL35	Hydraulic Type
Rocker Components	Both	1962-63	181-1023	Rocker Arm Kit, Includes (1) Cast R. Arm, (1) Grooved Ball, (1) $\frac{3}{8}$ Nut
Push Rod	Both	1962-63	192-1321	6.804 Length

(Cont'd) FORD / PASSENGER CAR**223 C.I., (3.7L), OHV, GAS, CARB, 12 Valve, Vin A, V**
1954-64 L6 223 CIDFOC223 **57**
BORE - 92.1mm/3.63"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1954-64	SB1875-6	1 $\frac{7}{8}$ O.D., 1 $\frac{5}{8}$ I.D., $\frac{7}{32}$ Depth
	Exh	1954-64	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1954-64	00373	1.780 Head Diameter
	Exh	1954-64	00375	1.510 Head Diameter
Keeper	Both	1954-64	121-1003	1 SQ Bead Type
Stem Seal	Both	1954-64	122-1041	Umbrella Type, Poly Material, Umbrella Style
		1954-64	122-1048	Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss
Guide	Both	1954-64	140-6105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1954-64	140-9105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9105U)
Spring	Both	1954-64	160-1120	2.222 Length, W/O Rotator
Lifter	Both	1954-64	VL21	Mechanical Type
Push Rod	Both	1954-64	190-1222	9.602 Length

227 C.I., (3.7L), DOHC, FLEX, GAS, FI, 24 Valve, Vin K, M, R,
"Duratec"

2009-20 V6 227 CID

FOC3.7DC-24VT **58**
BORE - 95.5mm/3.76"

PART		YEARS	PART NO.	NOTES
Valve	Int	2009-20	13225	1.457 Head Diameter
	Exh	2009-20	13226	1.220 Head Diameter
Keeper	Both	2009-20	121-1104	1 RD Bead Type
Stem Seal	Both	2009-20	122-1427	Positive Type, Viton Material, Top Hat Style
Spring	Both	2009-20	160-1599	1.858 Length, Conical

232 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 3

1982-83 V6 232 CID

FOC232CA **59**
BORE - 96.8mm/3.81"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1982-83	SB1875-50	1 $\frac{7}{8}$ O.D., 1.640 I.D., 0.2800 Depth
	Exh	1982-83	SB1625-54	1 $\frac{5}{8}$ O.D., 1.329 I.D., 0.2800 Depth
Keeper	Both	1982-83	121-1019	4 RD Bead Type
Stem Seal	Both	1982-83	122-1074	Positive Type, Viton Material, Ring & Band Style
Guide	Both	1982-83	140-8545	0.3440 I.D., 2.250 Length, 0.4988 O.D., Knock Out Style
		1982-83	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Lifter	Both	1982-83	VL35	Hydraulic Type
Rocker Components	Both	1982-83	180-1012	Rocker Arm
		1982-83	181-1018	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) 8mm Bolt
Push Rod	Both	1982-83	190-1522	7.770 Length, W/ Hyd. Lifters
Head Bolt Set		1982-83	220-1002	Torque To Yield, 2 Required
Head Saver Shim		1982-83	230-2016	New Hgt. - 3.0550 - 3.0700; Min. Hgt. - 3.0450, 2 Required

FORD / PASSENGER CAR (Cont'd)

60 232 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin 3, 4
1984-04 V6 232 CID

232FI
BORE - 96.8mm/3.81"

PART	YEARS	PART NO.	NOTES		
Valve Seat Insert	Int	1984-99 2000-04	SB1875-50 SB1937-55	1 ⁷ / ₈ O.D., 1.640 I.D., 0.2800 Depth 1 ¹⁵ / ₁₆ O.D., 1.640T I.D., 0.2900 Depth	
	Exh	1984-04	SB1625-54	1 ⁵ / ₈ O.D., 1.329 I.D., 0.2800 Depth	
Valve	Int	1996-99 2000-04	01790 01789	1.782 Head Diameter, 0.2750 Stem Dia. 1.861 Head Diameter, 0.2750 Stem Dia.	
	Exh	1996-04	01791	1.461 Head Diameter, 0.2740 Stem Dia.	
Keeper	Both	1984-95	121-1019	4 RD Bead Type, For .3410 Stem	
		1996-04	121-1084	3 RD Bead Type, For .2740 Stem	
Stem Seal	Int	1989-95	122-1215	Positive Type, Viton Material, Metal Clad Style	
	Exh	1989-95	122-1216	Positive Type, Viton Material, Metal Clad Style	
	Both	1996-98	122-1226	Positive Type, Viton Material, Metal Clad Style	
		1999-04	122-1351	Positive Type, Viton Material, Top Hat Style	
Guide	Exh	1996-98	140-8574	0.2765 I.D., 2.200 Length, 0.4955 O.D., W/ .274 Stem Dia.	
		Both	1984-95	140-8545	0.3440 I.D., 2.250 Length, 0.4988 O.D., Knock Out Style
			1984-95	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Both	1996-04	140-8575	0.2765 I.D., 2.050 Length, 0.4955 O.D., W/ .274 Stem Dia., NOTE: Intake Only Up To 1998, Intake & Exhaust 1999-2004	
Lifter	Both	1984-88	VL35	Hydraulic Type	
		1989-04	VL100	Hydraulic Roller Type	
Rocker Components	Both	1984-04	180-1012	Rocker Arm	
		1984-04	181-1018	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) 8mm Bolt	
Push Rod	Both	1984-88	190-1522	7.770 Length, W/ Hyd. Lifters	
		1989-04	190-1511	7.137 Length, W/ Roller Lifters	
Head Bolt Set		1984-88	220-1002	Torque To Yield, 2 Required	
		1989-95	220-1004	Torque To Yield, 2 Required	
		1996-04	220-1076	Torque To Yield, 2 Required	
Head Saver Shim		1984-98	230-2016	New Hgt. - 3.0550 - 3.0700; Min. Hgt. - 3.0450, 2 Required, Exc. 97-04 Mustang	

61 239 C.I., (3.9L), OHV, GAS, CARB, 16 Valve, Vin B, ""L-HEAD Flathead""
1949-53 V8 239 CID

FOC239L
BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1949-53	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1949-53	SB1640E-1	1.640 O.D., 1 ³ / ₈ I.D., 1/4 Depth
Valve	Both	1949-50	00212	1.510 Head Diameter
Keeper	Both	1949-50	121-1003	1 SQ Bead Type
Stem Seal	Both	1949-53	122-1376	O-Ring Type, Nitrile Material, Valve Guide Seal Style
Guide	Both	1949-53	140-1614	0.3435 I.D., 2.210 Length, 1.0303 O.D.
		1949-53	149-1001	N/A I.D., N/A Length, N/A O.D., Valve Guide Retainer
Rotator	Both	1949-50	161-1057	

(Cont'd) FORD / PASSENGER CAR**239 C.I., (3.9L), OHV, GAS, CARB, 16 Valve**
1954-54 V8 239 CIDFOC239 **62**
BORE - 88.9mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1954-54	SB1625-1 1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1954-54		SB1640E-1 1.640 O.D., 1$\frac{3}{8}$ I.D., $\frac{1}{4}$ Depth
Valve	Int	1954-54	1.647 Head Diameter
	Exh	1954-54	1.510 Head Diameter
Keeper	Both	1954-54	121-1003 1 SQ Bead Type
Stem Seal	Both	1954-54	122-1014 Positive Type, Tef/Rub Material, 1-Ring Style, Machine Guide To 0.562 O.D.
Guide	Int	1954-54	140-5606 0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U)
		1954-54	140-9606 0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9606U)
	Exh	1954-54	140-5604 0.3440 I.D., 2.625 Length, 0.5020 O.D., Plain I.D. Conversion Guide, +2 O/S Available
		1954-54	140-9604 0.3440 I.D., 2.625 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1954-54	160-1120 2.222 Length, W/O Rotator
Lifter	Both	1954-54	VL21 Mechanical Type
Push Rod	Both	1954-54	190-1221 8.258 Length

240 C.I., (3.9L), OHV, GAS, CARB, 12 Valve, Vin B, E, V
1965-72 L6 240 CIDFOC240 **63**
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1965-72	SB1812-3 1 $\frac{13}{16}$ O.D., 1 $\frac{1}{2}$ T I.D., $\frac{7}{32}$ Depth
	Exh	1965-72		SB1687-1 1$\frac{11}{16}$ O.D., 1$\frac{13}{32}$ I.D., $\frac{1}{4}$ Depth, +10 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int	1965-70	00963 1.781 Head Diameter, Except Taxi & Police
		1967-72	01120 1.780 Head Diameter, 1967-70 Taxi & Police, All 1971- 72., +15 O/S Stem Available
	Exh	1965-72	01358 1.560 Head Diameter, Except 1967-72 Taxi & Police, +15 O/S Stem Available
		1967-72	01177S 1.560 Head Diameter, Stellite Face, Taxi & Police From L-18, +15 O/S Stem Available
Keeper	Both	1965-72	121-1003 1 SQ Bead Type
Stem Seal	Both	1965-72	122-1035 Umbrella Type, Poly Material, Umbrella Style
		1965-72	122-1048 Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss
Guide	Int	1965-72	140-9867 0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
		1965-72	140-5607 0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
	Exh	1965-72	140-9607 0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Exh	1965-67	160-1135 1.875 Length, W/ Rotator
	Both	1965-72	160-1134 1.990 Length, W/O Rotator, 1965-67 Used As Int. Only, 1968-72 Used As Both
Lifter	Both	1965-72	VL35 Hydraulic Type
Rocker Components	Both	1965-72	180-1237 Rocker Arm, Cast
		1965-72	181-1040 Rocker Arm Kit, Includes (1) Cast R. Arm, (1) Smooth Ball, (1) $\frac{3}{8}$ Nut, (1) $\frac{5}{16}$ Nut

FORD / PASSENGER CAR (Cont'd)

63 240 C.I., (3.9L), OHV, GAS, CARB, 12 Valve, Vin B, E, V FOC240
 (cont.) 1965-72 L6 240 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	1965-72	183-1020	Grooved Ball, 3/8
		1965-72	183-1030	Smooth Ball, 3/8
		1965-72	184-1038	Nut, 3/8
Push Rod	Both	1965-72	192-1322	10.136 Length,- 40 U/S (192-1322U40) Available
Head Saver Shim		1965-72	230-2017	

64 242 C.I., (3.9L), DOHC, GAS, FI, 32 Valve, Vin A 3.9A
 2000-06 V8 242 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2000-06	02192	1.378 Head Diameter
	Exh	2000-06	02193	1.215 Head Diameter

65 245 C.I., (4.0L), SOHC, GAS, FI, 12 Valve, Vin N FOC245
 2005-10 V6 245 CID BORE - 100.3mm/3.95"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2005-10	SB1875-50	1 7/8 O.D., 1.640 I.D., 0.2800 Depth, Note: Seat May Need To Be Machined In Order To Achieve Correct Depth
	Exh	2005-10	SB1625-54	1 5/8 O.D., 1.329 I.D., 0.2800 Depth
Valve	Int	2005-10	01913	1.811 Head Diameter
	Exh	2005-10	01914	1.535 Head Diameter
Stem Seal	Both	2005-10	122-1348	Positive Type, Viton Material, Top Hat Style
Spring	Both	2005-10	160-1504	1.696 Length
Lifter	Both	2005-10	VL176	Hydraulic Lash Adjuster Type
Rocker Components	Both	2005-06	180-1341	Roller Cam Follower, NOTE: Early Without Oil Hole OEM # YL2Z-6564-AA
		2007-10	180-1325	Roller Cam Follower, NOTE: Late With Oil Hole OEM # 4G7Z-6564-AA
Head Bolt Set		2005-10	220-1106	Torque To Yield, Services Engine

66 250 C.I., (4.1L), OHV, GAS, CARB, 12 Valve, Vin C, L FOC250
 1969-80 L6 250 CID BORE - 93.5mm/3.68"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1969-76	SB1750-2	1 3/4 O.D., 1 1/2 I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.651 Valve Head Dia.
		1977-80	SB1812-4	1 13/16 O.D., 1 9/16 I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.751 Valve Head Dia.
	Exh	1969-80	SB1437-2	1 7/16 O.D., 1 7/32 I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1969-76	01268	1.651 Head Diameter
		1977-80	01357	1.751 Head Diameter
	Exh	1969-80	01266	1.390 Head Diameter, +15 O/S Stem Available
Keeper	Both	1969-80	121-1011	1 SQ Bead Type
Stem Seal	Both	1969-80	122-1009	Positive Type, Tef/Rub Material, 1-Ring Style, Use W/ .502 O.D. Guide
		1969-80	122-1034	Umbrella Type, Poly Material, Umbrella Style
Guide	Both	1969-80	140-6869	0.3125 I.D., 1.875 Length, 0.4390 O.D., Plain I.D. Conversion Guide
		1969-80	140-6977	0.3120 I.D., 2.281 Length, 0.5020 O.D., Plain I.D. Conversion Guide

(Cont'd) FORD / PASSENGER CAR**250 C.I., (4.1L), OHV, GAS, CARB, 12 Valve, Vin C, L**
1969-80 L6 250 CIDFOC250 **66**
BORE - 93.5mm/3.68" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Both	1969-80	140-9869	0.3125 I.D., 1.875 Length, 0.4390 O.D., Spiral I.D. Conversion Guide
		1969-80	140-9977	0.3120 I.D., 2.281 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9977H), -5 U/S I.D. Available (140-9977U)
Spring	Both	1969-80	160-1131	1.828 Length, W/ Hydraulic Lifters
Lifter	Both	1969-80	VL9	Hydraulic Type

255 C.I., (4.2L), OHV, GAS, CARB, 16 Valve, Vin D
1980-82 V8 255 CID255D **67**
BORE - 93.5mm/3.68"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1980-82	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.682 Valve Head Dia.
	Exh	1980-82	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Exh	1980-82	01135	1.451 Head Diameter, Does Not Require Lash Cap, +3 & +15 O/S Stem Available
		1980-82	01135S	1.451 Head Diameter, Stellite Face, LPG, Does Not Require Lash Cap
Keeper	Both	1980-82	121-1003	1 SQ Bead Type
Stem Seal	Both	1980-82	122-1048	Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss
		1980-82	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Both	1980-82	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1980-82	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Int	1980-82	160-1044	2.040 Length
	Exh	1980-82	160-1024	1.923 Length
Lifter	Both	1980-82	VL35	Hydraulic Type
Rocker Components	Both	1980-82	180-1234	Rocker Arm, Stamped
		1980-82	181-1035	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) ⁵ / ₁₆ Bolt
		1980-82	183-1022	Fulcrum
		1980-82	184-1035	Bolt W/Washer, ⁵ / ₁₆
Push Rod	Both	1980-82	192-1409	6.876 Length, - 60 U/S (192-1409U60) Available

260 C.I., (4.3L), OHV, GAS, CARB, 16 Valve, Vin F
1962-64 V8 260 CIDFOC260 **68**
BORE - 96.4mm/3.80"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1962-63	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1962-63	SB1500-1	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Exh	1964-64	00742	1.450 Head Diameter
Keeper	Both	1964-64	121-1003	1 SQ Bead Type
Guide	Both	1962-63	140-6869	0.3125 I.D., 1.875 Length, 0.4390 O.D., Plain I.D. Conversion Guide

FORD / PASSENGER CAR (Cont'd)

68 260 C.I., (4.3L), OHV, GAS, CARB, 16 Valve, Vin F FOC260
 (cont.) 1962-64 V8 260 CID BORE - 96.4mm/3.80"

PART	YEARS	PART NO.	NOTES	
Guide	Both	1962-63	140-6977	0.3120 I.D., 2.281 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1964-64	140-5606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U)
Spring	Both	1962-64	160-1120	2.222 Length, W/O Rotator
Lifter	Both	1962-64	VL35	Hydraulic Type
Rocker Components	Both	1962-64	181-1023	Rocker Arm Kit, Includes (1) Cast R. Arm, (1) Grooved Ball, (1) 3/8 Nut
Push Rod	Both	1962-64	192-1321	6.804 Length

69 272 C.I., (4.5L), OHV, GAS, CARB, 16 Valve FOC272
 1955-57 V8 272 CID BORE - 92.1mm/3.63"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1955-56	SB1812-3	1 19/16 O.D., 1 1/2 T I.D., 7/32 Depth, W/ 1.780 Valve Head Dia.
		1957-57	SB2000-1	2.000 O.D., 1 1/4 I.D., 7/32 Depth, Also Available In Non-Magnetic (N) Material, W/ 1.925 Valve Head Dia.
Valve Seat Insert	Exh	1955-57	SB1562-2	1 1/16 O.D., 1 5/16 T I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1955-56	00373	1.780 Head Diameter
		1957-57	00494	1.925 Head Diameter
	Exh	1955-57	00375	1.510 Head Diameter
Keeper	Both	1955-57	121-1003	1 SQ Bead Type
Stem Seal	Both	1955-57	122-1074	Positive Type, Viton Material, Ring & Band Style
Guide	Int	1955-57	140-5606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U)
		1955-57	140-9606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9606U)
	Exh	1955-57	140-6105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1955-57	140-9105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9105U)
Spring	Both	1955-57	160-1120	2.222 Length, W/O Rotator
Lifter	Both	1955-57	VL21	Mechanical Type
Push Rod	Both	1955-55	190-1221	8.258 Length
		1956-57	190-1543	8.122 Length

70 281 C.I., (4.6L), SOHC, CNG, FLEX, GAS, FI, 16 Valve, Vin 6, 9, V, W 4.6W-SC
 1992-11 V8 281 CID BORE - 90.2mm/3.55"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1992-11	SB1875-56	1 7/8 O.D., 1.600 T I.D., 0.2520 Depth, Also Available In Non-Magnetic (N) Material, Exc. CNG & LPG
		Exh	1992-99	SB1375-61	1 3/8 O.D., 1.130 T I.D., 0.3040 Depth, Also Available In Non-Magnetic (N) Material, Exc. CNG & LPG
	2000-11		SB1500-50	1 1/2 O.D., 1.203 T I.D., 0.2800 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, Exc. CNG & LPG, Seat May Need To Be Machined To Achieve Correct Depth
		2000-11	SB1500-50N	1 1/2 O.D., 1.203 T I.D., 0.2800 Depth, CNG & LPG, Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	1992-99	01699	1.752 Head Diameter, 4.607 Length, Except CNG & LPG
		1992-99	01699S	1.752 Head Diameter, Stellite Face, 4.622 Length, CNG & LPG
		2000-11	01924	1.752 Head Diameter, 4.752 Length, Except CNG & LPG
		2000-11	01924S	1.752 Head Diameter, Stellite Face, 4.752 Length, CNG & LPG

(Cont'd) FORD / PASSENGER CAR**281 C.I., (4.6L), SOHC, CNG, FLEX, GAS, FI, 16 Valve, Vin 6, 9, V, W**
1992-11 V8 281 CID**4.6W-SC 70**
BORE - 90.2mm/3.55" (cont.)

PART		YEARS	PART NO.	NOTES
Valve	Exh	1992-99	01698	1.339 Head Diameter,4.607 Length, Except CNG & LPG
		1992-99	01698S	1.339 Head Diameter,Stellite Face,4.622 Length, CNG & LPG
		2000-11	01925	1.418 Head Diameter,4.681 Length, Except CNG & LPG
		2000-11	01925S	1.418 Head Diameter,Stellite Face,4.681 Length, CNG & LPG
Keeper	Both	1992-11	121-1084	3 RD Bead Type
Stem Seal	Both	1994-11	122-1449	Positive Type,Viton Material,Top Hat Style,W/ Straight Guide
Guide	Both	1994-11	140-8274	0.2765 I.D.,1.930 Length,0.4953 O.D.,Late Style W/ Non Stepped O.D., +2, +3 O/S Available
		1994-11	140-8274H	0.2765 I.D.,1.930 Length,0.4953 O.D.,CNG & LPG
Spring	Both	1996-99	160-1408	2.115 Length,Conical, Large End O.D. 1.040"
		2000-11	160-1411	2.101 Length,Conical, Large End O.D. 1.069",NOTE:These springs are for castings that have slotted spring seats in order to accept the larger O.D. spring
Lifter	Both	1992-11	VL107	Hydraulic Lash Adjuster Type
Rocker Components	Both	1992-11	180-1284	Roller Cam Follower
Head Bolt Set		1992-11	220-1023	Torque To Yield,2 Required
		1992-11	220-1125	Torque To Yield,2 Required; Improved Design
Head Saver Shim		1992-11	230-2052L	Left,New Hgt. - 5.3100 - 5.3120; Min. Hgt. - 5.2980
		1992-11	230-2052R	Right,New Hgt. - 5.3100 - 5.3120; Min. Hgt. - 5.2980

281 C.I., (4.6L), SOHC, GAS, FI, 16 Valve, Vin X
1996-04 V8 281 CID**4.6X-SC 71**
BORE - 90.2mm/3.55" (cont.)

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1996-04	SB1875-56	1 $\frac{7}{8}$ O.D.,1.600T I.D.,0.2520 Depth,Also Available In Non-Magnetic (N) Material
	Exh	1996-98	SB1375-61	1 $\frac{3}{8}$ O.D.,1.130T I.D.,0.3040 Depth,Also Available In Non-Magnetic (N) Material
		1999-04	SB1500-50	1 $\frac{1}{2}$ O.D.,1.203T I.D.,0.2800 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	1996-98	01699	1.752 Head Diameter,4.607 Overall Length
		1999-04	01924	1.752 Head Diameter,4.752 Overall Length
	Exh	1996-98	01698	1.339 Head Diameter,4.607 Overall Length
		1999-04	01925	1.418 Head Diameter,4.681 Overall Length
Keeper	Both	1996-04	121-1084	3 RD Bead Type
Stem Seal	Both	1996-04	122-1449	Positive Type,Viton Material,Top Hat Style,W/ Straight Guide
Guide	Both	1996-04	140-8274	0.2765 I.D.,1.930 Length,0.4953 O.D.,W/ Non Stepped O.D., +2, +3 O/S Available
Spring	Both	1996-98	160-1408	2.115 Length,Conical, Large End O.D. 1.040"
		1999-04	160-1411	2.101 Length,Conical, Large End O.D. 1.069",NOTE:These springs are for castings that have slotted spring seats in order to accept the larger O.D. spring
Lifter	Both	1996-04	VL107	Hydraulic Lash Adjuster Type
Rocker Components	Both	1996-04	180-1284	Roller Cam Follower
Head Bolt Set		1996-04	220-1023	Torque To Yield,2 Required
		1996-04	220-1125	Torque To Yield,2 Required; Improved Design
Head Saver Shim		1996-04	230-2052L	Left,New Hgt. - 5.3100 - 5.3120; Min. Hgt. - 5.2980
		1996-04	230-2052R	Right,New Hgt. - 5.3100 - 5.3120; Min. Hgt. - 5.2980

FORD / PASSENGER CAR (Cont'd)

72 281 C.I., (4.6L), SOHC, GAS, FI, 24 Valve, Vin H
2005-10 V8 281 CID

4.6H-SC
BORE - 90.2mm/3.55"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2005-10	SB1375-50	1 $\frac{3}{8}$ O.D., 1.109T I.D., 0.2550 Depth, Also Available In Non-Magnetic (N) Material
	Exh	2005-10	SB1500-73	1 $\frac{1}{2}$ O.D., 1.230 I.D., 0.2780 Depth, Also Available In Non-Magnetic (N) Material
		2005-10	SB1500-73N	1 $\frac{1}{2}$ O.D., 1.230 I.D., 0.2780 Depth, CNG
Valve	Int	2005-10	02118	1.331 Head Diameter
		2005-10	02118S	1.331 Head Diameter, Stellite Face, CNG
	Exh	2005-10	02119	1.479 Head Diameter, Inconel
		2005-10	02119S	1.479 Head Diameter, Inconel, Stellite Face, CNG
Keeper	Both	2005-10	121-1082	3 RD Bead Type
Stem Seal	Both	2005-10	122-1356	Positive Type, Viton Material, Top Hat Style
Guide	Both	2005-10	140-3047	0.2371 I.D., 1.725 Length, 0.4360 O.D.
Spring	Both	2005-10	160-1485	2.150 Length, Conical
Lifter	Both	2005-10	VL180	Hydraulic Lash Adjuster Type, W/ Undercut Groove On Boss
Rocker Components	Both	2005-10	180-1330	Cam Follower

73 281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin R, V, ""InTech""
1993-04 V8 281 CID

FOC4.6-DC
BORE - 90.2mm/3.55"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1993-04	SB1500-79	1 $\frac{1}{2}$ O.D., 1.295 I.D., 0.2620 Depth
	Exh	1993-04	SB1250-61	1 $\frac{1}{4}$ O.D., 0.976 I.D., 0.1800 Depth
Valve	Int	1993-04	01709	1.456 Head Diameter
	Exh	1993-04	01708	1.181 Head Diameter
Keeper	Both	1993-04	121-1084	3 RD Bead Type
Stem Seal	Both	1995-04	122-1419	Positive Type, Viton Material, Top Hat Style, Except 1993-94 Lincoln Mark VIII
Guide	Both	1993-04	140-8274	0.2765 I.D., 1.930 Length, 0.4953 O.D., W/ Non Stepped O.D., +2, +3 O/S Available
Spring	Both	1993-95	160-1269	1.660 Length
		1996-04	160-1425	1.736 Length, Conical
Lifter	Both	1993-04	VL107	Hydraulic Lash Adjuster Type
Rocker Components	Both	1993-04	180-1284	Roller Cam Follower
Head Bolt Set		1993-04	220-1023	Torque To Yield, 2 Required
		1993-04	220-1125	Torque To Yield, 2 Required; Improved Design

74 281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin Y, ""Supercharged""
2003-04 V8 281 CID

FOC4.6DC-Y
BORE - 90.2mm/3.55"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2003-04	SB1500-79	1 $\frac{1}{2}$ O.D., 1.295 I.D., 0.2620 Depth
	Exh	2003-04	SB1250-61	1 $\frac{1}{4}$ O.D., 0.976 I.D., 0.1800 Depth
Valve	Int	2003-04	01709	1.456 Head Diameter
	Exh	2003-04	01708	1.181 Head Diameter
Keeper	Both	2003-04	121-1084	3 RD Bead Type
Stem Seal	Both	2003-04	122-1419	Positive Type, Viton Material, Top Hat Style
Guide	Both	2003-04	140-8274	0.2765 I.D., 1.930 Length, 0.4953 O.D., W/ Non Stepped O.D., +2, +3 O/S Available
Spring	Both	2003-04	160-1425	1.736 Length, Conical
Lifter	Both	2003-04	VL107	Hydraulic Lash Adjuster Type

(Cont'd) **FORD / PASSENGER CAR**

281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin Y, ""Supercharged"" FOC4.6DC-Y **74**
2003-04 V8 281 CID BORE - 90.2mm/3.55"" (cont.)

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	2003-04	180-1284	Roller Cam Follower
Head Bolt Set		2003-04	220-1023	Torque To Yield,2 Required

289 C.I., (4.7L), OHV, GAS, CARB, 16 Valve, Vin A, C, D, K FOC289 **75**
1963-68 V8 289 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1963-64	SB1750-2	1 ³ / ₄ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.680 Valve Head Dia.
	Exh	1963-68	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth,W/ 1.781 Valve Head Dia.
		1963-68	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1964-65	00947	1.781 Head Diameter,Except Special 4 Bbl.Taxi & Police .240 Tip To Groove
		1966-68	01001	1.780 Head Diameter,Except Special 4 Bbl. Taxi & Police, 0.360 Tip To Groove, +15 O/S Stem Available
	Exh	1963-65	00742	1.450 Head Diameter,Except Special 4 Bbl. Taxi & Police .240 Tip To Groove
		1966-68	01000	1.451 Head Diameter,Except Special 4 Bbl. Taxi & Police, .360 Tip To Groove +15 O/S Stem Available
Keeper	Both	1963-68	121-1003	1 SQ Bead Type
Stem Seal	Both	1963-68	122-1014	Positive Type,Tef/Rub Material,1-Ring Style,Machine Guide To 0.562 O.D.
		1963-68	122-1038	Umbrella Type,Poly Material,Umbrella Style
Guide	Both	1963-68	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1963-68	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1963-66	160-1120	2.222 Length,W/O Rotator, To L-10 Change 1966
		1963-67	160-1132	2.047 Length,W/ Damper,Special
		1966-67	160-1142	1.860 Length,From L-10 Change 1966, To L-14 Change 1967
		1967-67	160-1151	1.970 Length,From L14 Change 1967
		1968-68	160-1152	2.020 Length
Lifter	Both	1963-68	VL35	Hydraulic Type,Exc. Special, Taxi & Police
		1963-68	VL48	Mechanical High Performance Type,Special, Taxi & Police
Rocker Components	Both	1963-65	180-1304	Rocker Arm, Cast
		1963-65	181-1023	Rocker Arm Kit, Includes (1) Cast R. Arm, (1) Grooved Ball, (1) ³ / ₈ Nut,To 9/65
		1963-68	183-1020	Grooved Ball, ³ / ₈
		1963-68	183-1030	Smooth Ball, ³ / ₈
		1963-68	184-1038	Nut, ³ / ₈
		1966-68	180-1238	Rocker Arm, Cast, Rail Type
		1966-68	181-1041	Rocker Arm Kit, Includes (1) Cast Rail Type R. Arm, (1) Grooved Ball, (1) ³ / ₈ Nut, (1) ⁵ / ₁₆ Nut,From 10/65
Push Rod	Both	1963-68	192-1321	6.804 Length

292 C.I., (4.8L), OHV, GAS, CARB, 16 Valve FOC292 **76**
1955-62 V8 292 CID BORE - 95.3mm/3.75""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1955-56	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth,W/ 1.780 Valve Head Dia.
		1957-59	SB2000-1	2.000 O.D.,1 ³ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material,W/ 1.925 Valve Head Dia.

FORD / PASSENGER CAR (Cont'd)

76 292 C.I., (4.8L), OHV, GAS, CARB, 16 Valve
(cont.) 1955-62 V8 292 CID

FOC292
BORE - 95.3mm/3.75"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1960-62	SB1750-3	1 ³ / ₄ O.D., 1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.647 Valve Head Dia.
	Exh	1955-62	SB1562-2	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1955-56	00373	1.780 Head Diameter
		1957-59	00494	1.925 Head Diameter
		1960-62	00376	1.647 Head Diameter
	Exh	1955-62	00375	1.510 Head Diameter
Keeper	Both	1955-62	121-1003	1 SQ Bead Type
Stem Seal	Both	1955-62	122-1035	Umbrella Type, Poly Material, Umbrella Style
		1955-62	122-1047	Positive Type, Poly Material, 2-Ring Style
Guide	Int	1955-56	140-9606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9606U)
		1955-62	140-5606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U)
		1955-62	140-6105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide
	Exh	1955-62	140-5604	0.3440 I.D., 2.625 Length, 0.5020 O.D., Plain I.D. Conversion Guide, +2 O/S Available
		1955-62	140-9604	0.3440 I.D., 2.625 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Both	1955-62	140-9105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Int 1957-62 Exh 1955-56, -5 U/S I.D. Available (140-9105U)
Spring	Both	1955-62	160-1120	2.222 Length, W/O Rotator
Lifter	Both	1955-62	VL21	Mechanical Type
Push Rod	Both	1955-55	190-1221	8.258 Length
		1956-62	190-1543	8.122 Length

77 302 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, Vin F
1968-82 V8 302 CID

302F
BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1968-82	SB1875-1	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material, Exc. Spec. Boss Mustang
	Exh	1968-82	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, Exc. Spec. Boss Mustang
Valve	Int	1968-69	01001	1.780 Head Diameter, Except 1969 Special, Before L-4, 4.873 Overall Length, 0.360 Tip To Groove, +15 O/S Stem Available
		1969-77	01137	1.781 Head Diameter, 0.461 Tip To Groove, 5.050 Overall Length, From Chg. L-4 To S/N BEO,001; +15 O/S Stem Available
		1978-82	01328	1.782 Head Diameter, 5.070 Overall Length, 0.393 Tip To Groove, From S/N BEO.001, +3 & +15 O/S Stem Available
	Exh	1968-69	01000	1.451 Head Diameter, Except 1969 Special Before L-4, +15 O/S Stem Available
		1969-82	01135	1.451 Head Diameter, From Chg. L-4; 5.070 Overall Length, Does Not Require Lash Cap., +3 & +15 O/S Stem Available
Keeper	Both	1968-82	121-1003	1 SQ Bead Type
Stem Seal	Both	1968-82	122-1038	Umbrella Type, Poly Material, Umbrella Style
		1968-82	122-1048	Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss
		1969-82	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ ¹¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems

(Cont'd) FORD / PASSENGER CAR**302 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, Vin F**
1968-82 V8 302 CID**302F 77**
BORE - 101.6mm/4.00" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Both	1968-82	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1968-82	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
		1969-71	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
Spring	Int	1969-79	160-1041	1.965 Length
		1979-82	160-1044	2.040 Length,Exc. 1980-82 H-Duty Eng.
		1982-82	160-1054	1.900 Length,W/ H.O. Eng.
	Exh	1969-82	160-1024	1.923 Length,Incl. 1980-82 H-Duty Eng.
		1982-82	160-1047	2.100 Length,W/ H.O. Eng.
	Both	1968-69	160-1151	1.970 Length,Before L4 Change
Lifter	Both	1968-68	VL67RH	Hydraulic High Performance Type
		1968-71	VL48	Mechanical High Performance Type,Special
		1968-82	VL35	Hydraulic Type,Exc. Hi-Perf. & Special
Rocker Components	Both	1968-69	184-1038	Nut, 3/8, To Change L-4
		1968-78	180-1238	Rocker Arm, Cast, Rail Type
		1968-78	181-1041	Rocker Arm Kit, Includes (1) Cast Rail Type R. Arm, (1) Grooved Ball, (1) 3/8 Nut, (1) 5/16 Nut, From Change L-4
		1968-78	183-1020	Grooved Ball, 3/8
		1968-78	183-1030	Smooth Ball, 3/8
		1970-78	184-1039	Nut, 5/16, From Change L-4
		1978-82	180-1234	Rocker Arm, Stamped
		1978-82	181-1035	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) 5/16 Bolt
		1978-82	183-1022	Fulcrum
		1978-82	184-1035	Bolt W/Washer, 5/16, From Change L-4
Push Rod	Both	1968-69	192-1321	6.804 Length,Exc. Special
		1969-82	192-1409	6.876 Length, - 60 U/S (192-1409U60) Available

302 C.I., (5.0L), OHV, GAS, FI, 16 Valve, Vin E, F, T
1982-95 V8 302 CID**302TEF 78**
BORE - 101.6mm/4.00" (cont.)

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1982-95	SB1875-6	1 7/8 O.D., 1 5/8 I.D., 7/32 Depth, Exc. 1993-95 Mustang Cobra
		1982-95	SB1500-4	1 1/2 O.D., 1 7/32 I.D., 7/32 Depth, Recommended For Use On Late Model Cylinder Head W/ Thin Wall Section, Exc. 1993-95 Mustang Cobra
	Exh	1982-95	SB1562-1	1 9/16 O.D., 1 5/16 I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, Exc. 1992-95 Mustang Cobra
		1982-95	SB1562-36	1 9/16 O.D., 1 5/16 I.D., 3/16 Depth, Also Available In Non-Magnetic (N) Material, Recommended For Use On Late Model Cylinder Head W/ Thin Wall Section
Valve	Int	1982-95	01328	1.782 Head Diameter, 5.070 Overall Length, Exc. 1987-95 Mustang Cobra, +3 & +15 O/S Stem Available
		1986-91	01538	1.782 Head Diameter, 4.942 Overall Length
		1993-95	01701	1.842 Head Diameter, Mustang Cobra
	Exh	1982-95	01135	1.451 Head Diameter, Exc. Mustang Cobra, 5.070 Overall Length., +3 & +15 O/S Stem Available
		1986-91	01537	1.451 Head Diameter, 4.942 Overall Length
		1993-95	01877	1.541 Head Diameter, Mustang Cobra
Keeper	Both	1982-95	121-1003	1 SQ Bead Type

FORD / PASSENGER CAR (Cont'd)

78 302 C.I., (5.0L), OHV, GAS, FI, 16 Valve, Vin E, F, T 302TEF
 (cont.) 1982-95 V8 302 CID BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Stem Seal	Int	1992-95	122-1200	Positive Type,Viton Material,Metal Clad Style,W/ OEM Guide Dia.
	Exh	1992-95	122-1199	Positive Type,Viton Material,Metal Clad Style,W/ OEM Guide Dia.
	Both	1982-95	122-1038	Umbrella Type,Poly Material,Umbrella Style
		1982-95	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
		1982-95	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 1/2 Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Both	1982-95	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1982-95	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Int	1982-91	160-1004	2.060 Length,1982-89 Exc. H.O. Eng., Exc. 1990-91 Cougar, Mustang, Thunderbird & Town Car
		1982-95	160-1044	2.040 Length
		1982-95	160-1071	2.028 Length,1982-89 H.O. Eng. 1990-91 Cougar, Mustang, Thunderbird & Town Car, 1992-95 All Exc. Cobra
	Exh	1982-95	160-1024	1.923 Length,Exc. H.O. Eng., Exc. 1990-91 Cougar, Mustang, Thundebird & Town Car
	Both	1982-95	160-1054	1.900 Length,1983-89 H.O. Eng., 1990-91 Cougar, Mustang, Thunderbird & Town Car, 1992-95 All Exc. Cobra
Lifter	Both	1982-85	VL35	Hydraulic Type,Exc. Hi-Perf.
		1985-95	VL100	Hydraulic Roller Type
Rocker Components	Both	1982-95	180-1234	Rocker Arm, Stamped
		1982-95	181-1035	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) 5/16 Bolt
		1982-95	183-1022	Fulcrum
		1982-95	184-1035	Bolt W/Washer, 5/16
Push Rod	Both	1982-85	192-1409	6.876 Length,- 60 U/S (192-1409U60) Available,W/ Hyd. Lifters
		1982-95	190-1473	6.248 Length,- 57 U/S (190-1473U57) Available,W/ Roller Lifters
Head Bolt Set		1992-95	220-1033	Torque To Yield,2 Required

79 302 C.I., (5.0L), DOHC, GAS, FI, 32 Valve, Vin F, 99F, ""Coyote"" FOC5.0DC-GT
 2011-21 V8 302 CID BORE - 92.2mm/3.63"

PART		YEARS	PART NO.	NOTES
Valve	Int	2011-17	13294	1.457 Head Diameter
	Exh	2011-14	13295	1.220 Head Diameter
		2015-17	13449	1.252 Head Diameter
Keeper	Both	2011-19	121-1082	3 RD Bead Type
Stem Seal	Both	2011-17	122-1447	Positive Type,Viton Material,Top Hat Style
Guide	Both	2011-19	140-3166	0.2373 I.D.,1.715 Length,0.4395 O.D.
Spring	Both	2011-14	160-1617	2.075 Length,Conical
Lifter	Both	2011-19	VL575	Hydraulic Lash Adjuster Type
Rocker Components	Both	2011-17	180-1340	Roller Cam Follower

(Cont'd) FORD / PASSENGER CAR

302 C.I., (5.0L), DOHC, GAS, FI, 32 Valve, Vin U, 99U, ""Boss Coyote"" FOC5.0DC-BOSS 80
 2012-13 V8 302 CID BORE - 92.2mm/3.63""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2012-13	121-1082	3 RD Bead Type
Stem Seal	Both	2012-13	122-1447	Positive Type,Viton Material,Top Hat Style
Lifter	Both	2012-13	VL575	Hydraulic Lash Adjuster Type
Rocker Components	Both	2012-13	180-1340	Roller Cam Follower

302 C.I., (5.0L), DOHC, GAS, FI, 32 Valve, Vin 0, 990, ""Bullitt Coyote"" FOC5.0-990 81
 2019-21 V8 302 CID BORE - 92.2mm/3.63""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2019-19	121-1082	3 RD Bead Type
Lifter	Both	2019-19	VL575	Hydraulic Lash Adjuster Type

312 C.I., (5.1L), OHV, GAS, CARB, 16 Valve FOC312 82
 1956-60 V8 312 CID BORE - 96.4mm/3.80""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1956-56	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth,W/ 1.780 Valve Head Dia. 2.000 O.D.,1 ³ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material,W/ 1.925 Valve Head Dia. 1 ³ / ₄ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.647 Valve Head Dia. 1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ T I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
		1957-59	SB2000-1	
	Exh	1960-60	SB1750-2	
		1956-60	SB1562-2	
Valve	Int	1956-56	00373	1.780 Head Diameter
		1957-59	00494	1.925 Head Diameter
		1960-60	00376	1.647 Head Diameter
	Exh	1956-60	00375	1.510 Head Diameter
Keeper	Both	1956-60	121-1003	1 SQ Bead Type
Stem Seal	Both	1956-57	122-1074	Positive Type,Viton Material, Ring & Band Style
Guide	Int	1956-60	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U) 0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U) 0.3440 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide 0.3440 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9105U)
		1956-60	140-9606	
	Exh	1956-60	140-6105	
		1956-60	140-9105	
Spring	Both	1956-57	160-1120	2.222 Length,W/O Rotator
Lifter	Both	1956-60	VL21	Mechanical Type
Push Rod	Both	1956-60	190-1543	8.122 Length

315 C.I., (5.2L), DOHC, GAS, FI, 32 Valve, Vin Z, 99Z, ""Voodoo"" FOC5.2-99Z 83
 2015-21 V8 315 CID BORE - 94mm/3.66""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2015-19	121-1082	3 RD Bead Type
Lifter	Both	2015-19	VL575	Hydraulic Lash Adjuster Type
Rocker Components	Both	2015-19	180-1340	Roller Cam Follower

330 C.I., (5.4L), DOHC, GAS, FI, 32 Valve, Vin S, ""Supercharged"" FOC5.4DC-32V 84
 2005-12 V8 330 CID BORE - 90.2mm/3.55""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2005-12	121-1084	3 RD Bead Type

FORD / PASSENGER CAR (Cont'd)

84 330 C.I., (5.4L), DOHC, GAS, FI, 32 Valve, Vin S, ""Supercharged"" FOC5.4DC-32V
 (cont.) 2005-12 V8 330 CID BORE - 90.2mm/3.55""

PART		YEARS	PART NO.	NOTES
Stem Seal	Both	2005-12	122-1419	Positive Type,Viton Material,Top Hat Style
Guide	Both	2011-12	140-8274	0.2765 I.D.,1.930 Length,0.4953 O.D.
Lifter	Exh	2005-12	VL176	Hydraulic Lash Adjuster Type
Rocker Components	Both	2005-06	180-1341	Roller Cam Follower,NOTE: Early Without Oil Hole OEM # YL2Z-6564-AA
		2007-12	180-1325	Roller Cam Follower,NOTE: Late With Oil Hole OEM # 4G7Z-6564-AA

85 332 C.I., (5.4L), OHV, GAS, CARB, 16 Valve FOC332
 1958-59 V8 332 CID BORE - 101.6mm/4.00""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1958-59	SB2062-1	2 ¹ / ₁₆ O.D.,1 ¹³ / ₁₆ I.D., ¹ / ₄ Depth
	Exh	1958-59	SB1687-1	1 ¹¹ / ₁₆ O.D.,1 ¹³ / ₃₂ I.D., ¹ / ₄ Depth,+10 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int	1958-59	00585	2.027 Head Diameter
	Exh	1958-59	01242	1.559 Head Diameter,+15 O/S Stem Available
Keeper	Both	1958-59	121-1007	1 SQ Bead Type
Stem Seal	Both	1958-59	122-1011	Positive Type,Tef/Rub Material,1-Ring Style,Machine Guide To 0.500 O.D.
		1958-59	122-1033	Umbrella Type,Poly Material,Umbrella Style
Guide	Both	1958-59	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1958-59	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	1958-59	160-1124	2.260 Length,W/ Damper
Lifter	Both	1958-59	VL9	Hydraulic Type
Rocker Components	Both	1958-59	180-1059	Rocker Arm, Cast
		1958-59	186-1090	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	1958-59	190-1426	9.590 Length,+60 O/S (190-1426+60) Available ,W/ Hyd. Lifters (Std. Length) W/ Ball Tips

86 351 C.I., (5.8L), OHV, GAS, CARB, 16 Valve, Vin H, Q, R, ""Cleveland"" 351C
 1972-74 V8 351 CID BORE - 101.6mm/4.00""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1972-72	SB2250-2	2 ¹ / ₄ O.D.,1 ⁷ / ₈ I.D., ⁹ / ₃₂ Depth,W/ 2.190 Valve Head Dia.
		1972-74	SB2125-1	2 ¹ / ₈ O.D.,1 ¹³ / ₁₆ I.D., ¹ / ₄ Depth,W/ 2.041 Valve Head Dia.
	Exh	1972-72	SB1812-4	1 ¹³ / ₁₆ O.D.,1 ¹⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.709 Valve Head Dia.
		1972-74	SB1750-2	1 ³ / ₄ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.655 Valve Head Dia.
Valve	Int	1972-72	01172	2.190 Head Diameter,4 Bbl. Carb.
		1972-74	01170	2.041 Head Diameter,4 Groove,+15 O/S Stem Available
	Exh	1972-72	01171	1.709 Head Diameter,4 Bbl. Carb.
		1972-74	01169	1.655 Head Diameter,4 Groove,+15 O/S Stem Available
Keeper	Both	1972-74	121-1019	4 RD Bead Type
Stem Seal	Both	1972-74	122-1038	Umbrella Type,Poly Material,Umbrella Style
		1972-74	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss

(Cont'd) FORD / PASSENGER CAR

351 C.I., (5.8L), OHV, GAS, CARB, 16 Valve, Vin H, Q, R, ""Cleveland"" **351C 86**
 1972-74 V8 351 CID BORE - 101.6mm/4.00"" (cont.)

PART	YEARS	PART NO.	NOTES
Stem Seal	Both	1972-74 122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 ¹ / ₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Both	1972-74 140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1972-74 140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1972-74 160-1154	2.060 Length,W/ Damper,W/ 4 Bbl. Carb.
		1972-74 160-1161	2.068 Length,W/ 2 Bbl. Carb.
Lifter	Both	1972-74 VL35	Hydraulic Type
Rocker Components	Both	1972-74 180-1233	Rocker Arm, Stamped
		1972-74 180-1238	Rocker Arm, Cast, Rail Type
		1972-74 181-1034	Rocker Arm Kit, Includes (1) Stamped R. Arm, (1) Fulcrum, (1) 5 ¹ / ₁₆ Bolt
		1972-74 183-1022	Fulcrum
		1972-74 184-1034	Bolt, 5 ¹ / ₁₆
Push Rod	Both	1972-74 190-1395	8.408 Length,Exc. Boss Special

351 C.I., (5.8L), OHV, GAS, CARB, 16 Valve, Vin H, ""Modified"" **351M 87**
 1975-79 V8 351 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1975-79 SB2125-2	2 ¹ / ₈ O.D.,1 ¹ / ₈ I.D.,1 ¹ / ₄ Depth
	Exh	1975-79 SB1750-2N	1 ³ / ₄ O.D.,1 ¹ / ₂ I.D.,7 ¹ / ₃₂ Depth
Valve	Int	1975-78 01170	2.041 Head Diameter,4 Groove,+15 O/S Stem Available
		1979-79 01380	2.041 Head Diameter,1 Groove,+15 O/S Stem Available
	Exh	1975-77 01169	1.655 Head Diameter,4 Groove,0.3415 Stem Dia., 4 Groove, +15 O/S Stem Available
		1978-79 01367	1.655 Head Diameter,1 Groove,0.3414 Stem Dia., +15 O/S Stem Available
Keeper	Both	1975-78 121-1019	4 RD Bead Type
		1978-79 121-1003	1 SQ Bead Type
Stem Seal	Both	1975-79 122-1038	Umbrella Type,Poly Material,Umbrella Style
		1975-79 122-1048	Positive Type,Poly Material,2-Ring Style,W/ .341 Stem Dia. & Use W/ Factory Guide Boss
		1975-79 122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 ¹ / ₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Both	1975-79 140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
Spring	Exh	1978-79 160-1041	1.965 Length,W/ Rotator
	Both	1975-79 160-1161	2.068 Length,W/O Rotator, Exc. 1978-79 Exh.
Lifter	Both	1975-79 VL35	Hydraulic Type
Rocker Components	Both	1975-79 180-1233	Rocker Arm, Stamped
		1975-79 181-1034	Rocker Arm Kit, Includes (1) Stamped R. Arm, (1) Fulcrum, (1) 5 ¹ / ₁₆ Bolt
		1975-79 183-1022	Fulcrum
		1975-79 184-1034	Bolt, 5 ¹ / ₁₆
Push Rod	Both	1975-79 190-1417	9.500 Length,+60 O/S (190-1417+60) & - 60 U/S (190-1417U60) Available,Exc. Boss Special

FORD / PASSENGER CAR (Cont'd)

88 351 C.I., (5.8L), OHV, GAS, CARB, 16 Valve, Vin G, H, M, ""Windsor"" 351W
 1969-91 V8 351 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1969-74	SB1937-1	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., 1/4 Depth
		1975-91	SB1875-6	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., 7/32 Depth, W/ 1.782 Valve Head Dia.
	Exh	1969-74	SB1625-1	1 ⁵ / ₈ O.D., 1 ¹ / ₈ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.541 Valve Head Dia.
		1975-91	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.451 & 1.461 Valve Head Dia.
Valve	Int	1969-74	01238	1.842 Head Diameter, +15 O/S Stem Available
		1975-91	01328	1.782 Head Diameter, 1975-79 All, 1980-91 Exc. H.O. Police & Trailer Towing Pkg., +3 & +15 O/S Stem Available
	Exh	1969-74	01237	1.541 Head Diameter, +15 O/S Stem Available
		1975-76	01327	1.461 Head Diameter, 1975-76 All, 1977-78 W/ Cast Iron Rocker Arms, W/O Rotators
	1978-91	01135	1.451 Head Diameter, W/ Steel Rocker Arms, Does Not Require Lash Cap, +3 & +15 O/S Stem Available	
Keeper	Both	1969-91	121-1003	1 SQ Bead Type
Stem Seal	Both	1969-91	122-1038	Umbrella Type, Poly Material, Umbrella Style
		1969-91	122-1048	Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss
		1975-91	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ 1 ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Both	1969-91	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1969-91	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Int	1980-91	160-1044	2.040 Length, Exc. H.O. Eng.
		1980-91	160-1047	2.100 Length, W/ H.O., Trailer Package
	Exh	1977-91	160-1024	1.923 Length, Exc. H.O. Eng.
		1980-91	160-1054	1.900 Length, W/ H.O., Trailer Package
	Both	1969-69	160-1159	2.155 Length, W/ Damper
		1970-79	160-1004	2.060 Length, Exc. 1977-79 Exh.
Lifter	Both	1969-91	VL35	Hydraulic Type
Rocker Components	Both	1969-78	180-1238	Rocker Arm, Cast, Rail Type
		1969-78	181-1041	Rocker Arm Kit, Includes (1) Cast Rail Type R. Arm, (1) Grooved Ball, (1) 3/8 Nut, (1) 5/16 Nut
		1969-78	183-1020	Grooved Ball, 3/8
		1969-78	184-1039	Nut, 5/16
		1969-91	183-1030	Smooth Ball, 3/8
		1978-91	180-1234	Rocker Arm, Stamped
		1978-91	181-1035	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) 5/16 Bolt
		1978-91	183-1022	Fulcrum
		1978-91	184-1035	Bolt W/Washer, 5/16
		Push Rod	Both	1969-78	192-1399	8.152 Length, W/ Cast Iron Rocker Arms
1978-91	190-1443			8.182 Length, W/ Stamped Rocker Arms

89 352 C.I., (5.8L), OHV, GAS, CARB, 16 Valve FOC352
 1958-66 V8 352 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1958-66	SB2062-1	2 ¹ / ₁₆ O.D., 1 ¹³ / ₁₆ I.D., 1/4 Depth
	Exh	1958-66	SB1687-1	1 ¹¹ / ₁₆ O.D., 1 ¹³ / ₃₂ I.D., 1/4 Depth, +10 O/S Available, Also Available In Non-Magnetic (N) Material

(Cont'd) **FORD / PASSENGER CAR**

352 C.I., (5.8L), OHV, GAS, CARB, 16 Valve
1958-66 V8 352 CID

FOC352 89
BORE - 101.6mm/4.00" (cont.)

PART	YEARS	PART NO.	NOTES	
Valve	Int	1958-60 1961-66	00585 00637	2.027 Head Diameter,30 Degree Seat 2.027 Head Diameter,+15 O/S Stem Available, 45 Deg.
	Exh	1958-66	01242	1.559 Head Diameter,+15 O/S Stem Available
	Keeper	Both	1958-66	121-1007 1 SQ Bead Type
Stem Seal	Both	1958-66	122-1031	Positive Type,Poly Material,2-Ring Style
		1958-66	122-1036	Umbrella Type,Poly Material,Umbrella Style
Guide	Exh	1958-66	140-7298	0.3730 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
	Both	1958-66	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1958-66	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
	1958-66	140-9298	0.3729 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide	
Spring	Both	1958-66	160-1124 2.260 Length,W/ Damper	
Lifter	Both	1958-66	VL9 Hydraulic Type	
Rocker Components	Both	1958-66	180-1059	Rocker Arm, Cast,W/ Hydraulic Lifter
		1958-66	186-1090	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	1958-63	190-1426	9.590 Length,+60 O/S (190-1426+60) Available ,W/ Hyd. Lifters (Std. Length) W/ Ball Tips
		1964-66	190-1351	9.620 Length,+60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available,W/ Hyd. Lifters, From 1/64

355 C.I., (5.8L), DOHC, GAS, FI, 32 Valve, Vin Z, ""Trinity Supercharged""
2013-14 V8 355 CID

FOC5.8-DC 90
BORE - 93.5mm/3.68"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2013-14	121-1084 3 RD Bead Type
Stem Seal	Both	2013-14	122-1419 Positive Type,Viton Material,Top Hat Style
Guide	Both	2013-14	140-8274 0.2765 I.D.,1.930 Length,0.4953 O.D.
Rocker Components	Both	2013-14	180-1325 Roller Cam Follower

361 C.I., (5.9L), OHV, GAS, CARB, 16 Valve, Vin W
1958-59 V8 361 CID

FOC361 91
BORE - 102.9mm/4.05"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1958-59	SB2062-1	2 ¹ / ₁₆ O.D.,1 ¹³ / ₁₆ T I.D., ¹ / ₄ Depth
	Exh	1958-59	SB1687-1	1 ¹¹ / ₁₆ O.D.,1 ¹³ / ₃₂ I.D., ¹ / ₄ Depth,+10 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int	1958-59	00585	2.027 Head Diameter
	Exh	1958-59	01242	1.559 Head Diameter,+15 O/S Stem Available
Keeper	Both	1958-59	121-1007 1 SQ Bead Type	
Stem Seal	Both	1958-59	122-1033 Umbrella Type,Poly Material,Umbrella Style	
Guide	Int	1958-59	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1958-59	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
	Exh	1958-59	140-6109	0.3740 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1958-59	140-9109	0.3740 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide

FORD / PASSENGER CAR (Cont'd)

91 361 C.I., (5.9L), OHV, GAS, CARB, 16 Valve, Vin W FOC361
 (cont.) 1958-59 V8 361 CID BORE - 102.9mm/4.05"

PART	YEARS	PART NO.	NOTES
Lifter	Both	1958-59 VL9	Hydraulic Type
Rocker Components	Both	1958-59 180-1059	Rocker Arm, Cast
Push Rod	Both	1958-59 190-1351	9.620 Length,+60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available

92 390 C.I., (6.4L), OHV, GAS, CARB, 16 Valve, Vin 9, H, M, P, Q, R, S, X, Y, Z FOC390
 1961-71 V8 390 CID BORE - 101.6mm/4.05"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1961-71 SB2062-1 1961-71 SB1687-1	2 ¹ / ₁₆ O.D., 1 ¹³ / ₁₆ T I.D., 1/4 Depth 1 ¹¹ / ₁₆ O.D., 1 ¹³ / ₃₂ I.D., 1/4 Depth,+10 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int Exh	1961-71 00637 1961-71 01242	2.027 Head Diameter, Except Heavy Duty, +15 O/S Stem Available 1.559 Head Diameter,+15 O/S Stem Available
Keeper	Both	1961-71 121-1007	1 SQ Bead Type
Stem Seal	Both	1961-71 122-1031 1961-71 122-1033	Positive Type, Poly Material, 2-Ring Style Umbrella Type, Poly Material, Umbrella Style
Guide	Exh Both	1961-71 140-7298 1961-71 140-9298 1961-71 140-6108 1961-71 140-9108	0.3730 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide 0.3729 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide 0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U) 0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 U/S I.D. Available (140-9108U)
Spring	Both	1963-71 160-1175	2.120 Length, W/ Damper, Incl. 1963-65 HP & Police
Lifter	Both	1961-71 VL9	Hydraulic Type
Rocker Components	Both	1961-71 180-1059 1961-71 186-1090	Rocker Arm, Cast, Non-Adjustable, W/ Hydraulic Lifters Rocker Arm Shaft, 2 Required W/ Hydraulic Lifter
Push Rod	Both	1961-71 190-1351 1961-71 190-1426	9.620 Length,+60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available, W/ Hyd. Lifters 9.590 Length,+60 O/S (190-1426+60) Available ,W/ Hyd. Lifters, W/ Ball Tips

93 400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin S 400S
 1971-79 V8 400 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1971-79 SB2125-2 1971-79 SB1750-2	2 ¹ / ₈ O.D., 1 ⁷ / ₈ I.D., 1/4 Depth 1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int Exh	1971-78 01170 1979-79 01380 1971-77 01169 1978-79 01367	2.041 Head Diameter, 4 Groove,+15 O/S Stem Available 2.041 Head Diameter, 1 Groove,+15 O/S Stem Available 1.655 Head Diameter, 4 Groove,+15 O/S Stem Available 1.655 Head Diameter, 1 Groove,+15 O/S Stem Available
Keeper	Both	1971-78 121-1019 1978-79 121-1003	4 RD Bead Type 1 SQ Bead Type
Stem Seal	Both	1971-79 122-1038 1971-79 122-1048	Umbrella Type, Poly Material, Umbrella Style Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss
Guide	Both	1971-79 140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)

(Cont'd) **FORD / PASSENGER CAR**

400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin S
1971-79 V8 400 CID

400S 93
BORE - 101.6mm/4.00"" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Both 1971-79	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Exh 1978-79 Both 1973-79	160-1041 160-1162	1.965 Length,W/ Rotator 2.056 Length,W/O Rotator, Exc. 1978-79 Exh.
Lifter	Both 1971-79	VL35	Hydraulic Type
Rocker Components	Both 1971-79 1971-79 1971-79 1971-79	180-1233 181-1034 183-1022 184-1034	Rocker Arm, Stamped Rocker Arm Kit, Includes (1) Stamped R. Arm, (1) Fulcrum, (1) 5/16 Bolt Fulcrum Bolt, 5/16
Push Rod	Both 1971-79	190-1417	9.500 Length,+60 O/S (190-1417+60) & - 60 U/S (190-1417U60) Available,Exc. Boss Special

406 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin B, G
1962-63 V8 406 CID

FOC406 94
BORE - 105mm/4.13""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1962-63 Exh 1962-63 1962-63	SB2062-1 SB1687-1 SB1750-2	2 1/16 O.D.,1 13/16 T I.D., 1/4 Depth 1 11/16 O.D., 1 13/32 I.D., 1/4 Depth,+10 O/S Available, Also Available In Non-Magnetic (N) Material,W/ 1.559 Valve Head Dia. 1 3/4 O.D., 1 1/2 I.D., 7/32 Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.652 Valve Head Dia.
Valve	Int 1962-63 Exh 1962-63	00585 01242	2.027 Head Diameter 1.559 Head Diameter,+15 O/S Stem Available
Keeper	Both 1962-63	121-1007	1 SQ Bead Type
Stem Seal	Both 1962-63 1962-63	122-1031 122-1033	Positive Type,Poly Material,2-Ring Style Umbrella Type,Poly Material,Umbrella Style
Guide	Int 1962-63 1962-63 Exh 1962-63 1962-63	140-6108 140-9108 140-7298 140-9298	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U) 0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U) 0.3730 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide 0.3729 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both 1962-63	160-1154	2.060 Length,W/ Damper

410 C.I., (6.7L), OHV, GAS, CARB, 16 Valve, Vin M
1966-67 V8 410 CID

FOC410 95
BORE - 102.9mm/4.05""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1966-67 Exh 1966-67	SB2062-1 SB1687-1	2 1/16 O.D.,1 13/16 T I.D., 1/4 Depth 1 11/16 O.D., 1 13/32 I.D., 1/4 Depth,+10 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int 1966-67 Exh 1966-67	00637 01242	2.027 Head Diameter,Except Heavy Duty, +15 O/S Stem Available 1.559 Head Diameter,+15 O/S Stem Available
Keeper	Both 1966-67	121-1007	1 SQ Bead Type
Stem Seal	Both 1966-66	122-1036	Umbrella Type,Poly Material,Umbrella Style,Police Interceptor., .645 Seal Height

FORD / PASSENGER CAR (Cont'd)

95 410 C.I., (6.7L), OHV, GAS, CARB, 16 Valve, Vin M FOC410
 (cont.) 1966-67 V8 410 CID BORE - 102.9mm/4.05"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1966-67	122-1033	Umbrella Type, Poly Material, Umbrella Style, Exc. 1966 Police Interceptor., .790 Seal Height
Guide	Both	1966-67	140-7298	0.3730 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1966-67	140-9298	0.3729 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Lifter	Both	1966-67	VL9	Hydraulic Type
Push Rod	Both	1966-67	190-1351	9.620 Length, +60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available

96 428 C.I., (7.0L), OHV, GAS, CARB, 16 Valve, Vin P, Q, R FOC428
 1966-70 V8 428 CID BORE - 104.9mm/4.13"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1966-70	SB2125-2	2 $\frac{1}{8}$ O.D., 1 $\frac{7}{8}$ I.D., $\frac{1}{4}$ Depth, Exc. CJ & SCJ W/ 2.027 Valve Head Dia.
		1968-70	SB2250-1	2 $\frac{1}{4}$ O.D., 1 $\frac{15}{16}$ I.D., $\frac{3}{16}$ Depth, CJ & SCJ W/ 2.090 Valve Head Dia.
	Exh	1966-70	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, Exc. CJ & SCJ W/ 1.559 Valve Head
		1968-70	SB1750-2	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.652 Valve Head Dia.
Valve	Int	1966-70	00637	2.027 Head Diameter, Except 67-68 Police or SCJ & CJ, +15 O/S Stem Available
	Exh	1966-70	01242	1.559 Head Diameter, Except CJ & SCJ, +15 O/S Stem Available
Keeper	Both	1966-70	121-1007	1 SQ Bead Type
Stem Seal	Both	1966-70	122-1031	Positive Type, Poly Material, 2-Ring Style
		1966-70	122-1033	Umbrella Type, Poly Material, Umbrella Style
Guide	Int	1966-70	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
	Exh	1966-70	140-7298	0.3730 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide
	Both	1966-70	140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
		1966-70	140-9298	0.3729 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1966-70	160-1154	2.060 Length, W/ Damper
		1966-70	160-1175	2.120 Length, W/ Damper
Rocker Components	Both	1966-70	180-1059	Rocker Arm, Cast, Non-Adjustable, W/ Hydraulic Lifters, Exc. 1966 Police
		1966-70	186-1090	Rocker Arm Shaft, 2 Required W/ Hydraulic Lifter
Push Rod	Both	1966-67	190-1351	9.620 Length, +60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available, W/ Hyd. Lifters, To 1/68
		1968-70	190-1426	9.590 Length, +60 O/S (190-1426+60) Available, W/ Hyd. Lifters (Std. Length) W/ Ball Tips

97 429 C.I., (7.0L), OHV, GAS, CARB, 16 Valve, Vin C, J, K, N, P, Z FOC429
 1968-73 V8 429 CID BORE - 110.7mm/4.36"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1968-73	SB2250-1	2 $\frac{1}{4}$ O.D., 1 $\frac{15}{16}$ I.D., $\frac{3}{16}$ Depth, Exc. CJ, SCJ & Police

(Cont'd) FORD / PASSENGER CAR**429 C.I., (7.0L), OHV, GAS, CARB, 16 Valve, Vin C, J, K, N, P, Z**
1968-73 V8 429 CID**FOC429 97**
BORE - 110.7mm/4.36" (cont.)

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1968-73	SB1750-2	1¾ O.D., 1½ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.654 Valve Head Dia.
		1968-73	SB1750-38	1¾ O.D., 1¼ I.D., 7/32 Depth, SCJ, W/ 1.725 Valve Head Dia.
Valve	Int	1968-72	01103	2.083 Head Diameter, 5.288 Overall Length Exc. Police, Cobra Jet & Special
		1973-73	01272	2.083 Head Diameter, 5.198 Overall Length, Exc. Police, Cobra Jet & Special, +15 O/S Stem Available
	Exh	1968-72	01102	1.654 Head Diameter, 5.080 Overall Length, Exc. Police, Cobra Jet & Special
		1973-73	01271	1.654 Head Diameter, 4.983 Overall Length, Exc. Police, Cobra Jet & Special, +15 O/S Stem Available
Keeper	Both	1968-73	121-1003	1 SQ Bead Type
Stem Seal	Both	1968-73	122-1041	Umbrella Type, Poly Material, Umbrella Style
		1968-73	122-1048	Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss
Guide	Both	1968-73	140-5606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U)
		1968-73	140-9606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9606U)
Spring	Both	1968-73	160-1161	2.068 Length, Exc. Hi-Perf. & Police
Lifter	Both	1968-69	VL67RH	Hydraulic High Performance Type
		1968-73	VL35	Hydraulic Type, Exc. 1970 Cobra Jet & Police
		1970-71	VL48	Mechanical High Performance Type, Cobra Jet & Police
Rocker Components	Both	1968-73	180-1233	Rocker Arm, Stamped
		1968-73	184-1038	Nut, ¾
		1970-72	181-1034	Rocker Arm Kit, Includes (1) Stamped R. Arm, (1) Fulcrum, (1) 5/16 Bolt, Police, Cobra Jet, Super Cobra Jet, Exc. Special
		1970-72	183-1022	Fulcrum, Police, Cobra Jet, Super Cobra Jet, Exc. Special
		1970-72	184-1034	Bolt, 5/16, Police, Cobra Jet, Super Cobra Jet, Exc. Special
Push Rod	Both	1969-71	190-1396	8.648 Length, Exc. Police, Cobra Jet & Super Cobra Jet (To Early 1971), From 4/69
		1970-73	190-1425	8.550 Length, +60 O/S (190-1425+60) Available, Exc. Police & Cobra Jet
		1971-71	190-1433	8.686 Length, Note: (Hardened); +60 O/S (190-1433+60) Available

460 C.I., (7.5L), OHV, GAS, CARB, 16 Valve, Vin A, C
1968-78 V8 460 CID**FOC460 98**
BORE - 110.7mm/4.36" (cont.)

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1968-78	SB2250-1	2¼ O.D., 1½ I.D., 3/16 Depth
	Exh	1968-78	SB1750-2	1¾ O.D., 1½ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1968-72	01103	2.083 Head Diameter, 5.288 Overall Length
		1973-78	01272	2.083 Head Diameter, 5.198 Overall Length, Exc. Police, +15 O/S Stem Available
	Exh	1968-72	01102	1.654 Head Diameter, 5.080 Overall Length
		1973-78	01271	1.654 Head Diameter, 4.983 Overall Length, Exc. Police, +15 O/S Stem Available
Keeper	Both	1968-78	121-1003	1 SQ Bead Type
Stem Seal	Both	1968-78	122-1041	Umbrella Type, Poly Material, Umbrella Style
		1968-78	122-1074	Positive Type, Viton Material, Ring & Band Style

FORD / PASSENGER CAR (Cont'd)

98 460 C.I., (7.5L), OHV, GAS, CARB, 16 Valve, Vin A, C FOC460
 (cont.) 1968-78 V8 460 CID BORE - 110.7mm/4.36"

PART	YEARS	PART NO.	NOTES	
Guide	Both	1968-78	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
		1968-78	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
Spring	Both	1972-78	160-1161	2.068 Length,Exc. Hi-Perf. & Police
Lifter	Both	1968-78	VL35	Hydraulic Type
Rocker Components	Both	1968-78	184-1038	Nut, 3/8
		1972-78	180-1233	Rocker Arm, Stamped
		1972-78	181-1034	Rocker Arm Kit, Includes (1) Stamped R. Arm, (1) Fulcrum, (1) 5/16 Bolt
		1972-78	183-1022	Fulcrum
		1972-78	184-1034	Bolt, 5/16
Push Rod	Both	1969-71	190-1396	8.648 Length,Exc. Police, Cobra Jet & Super Cobra Jet (To Early 1971), From 4/69
		1972-78	190-1425	8.550 Length,+60 O/S (190-1425+60) Available,Exc. Police & Cobra Jet

FORD TRUCK / PASSENGER TRUCK

Engine	Models	Line No.
3 Cylinder		
61 C.I., (1.0L), DOHC, GAS, FI, 12 Valve, Vin E, ""EcoBoost TURBO"" (2018-21)	EcoSport	1
4 Cylinder		
91 C.I., (1.5L), DOHC, GAS, FI, 16 Valve, Vin D, ""EcoBoost TURBO"" (2017-19)	Escape	2
97 C.I., (1.6L), DOHC, GAS, FI, 16 Valve, Vin X, ""EcoBoost TURBO"" (2013-16)	Escape, Transit Connect	3
1803cc, (1.8L), SOHC, GAS, CARB, 8 Valve, Vin A ""Mazda"" (1972-78)	Courier	4
1989cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin 1, C, ""Mazda"" (1979-82)	Courier	5
121 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin B ""Zetec"" (2001-04)	Escape	6
121 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin N ""Duratec"" (2010-13)	Transit Connect	7
122 C.I., (2.0L), SOHC, GAS, CARB, 8 Valve, Vin C (1983-88)	Ranger	8
122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin 9, ""EcoBoost TURBO"" (2012-21)	Corsair, Edge, Escape, Explorer, MKC, MKT, Nautilus	9
122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin L, 99L, ""Duratec"" (2018-21)	EcoSport	10
2294cc, (2.3L), OHV, DIESEL, FI, 8 Valve, Vin E, ""Mitsubishi TURBO"" (1985-87)	Ranger	11
140 C.I., (2.3L), SOHC, GAS, CARB, 8 Valve, Vin 2, B (1977-82)	Courier	12
140 C.I., (2.3L), SOHC, GAS, CARB, 8 Valve, Vin A (1983-84)	Ranger	13
140 C.I., (2.3L), SOHC, GAS, FI, 8 Valve, Vin A (1985-97)	Aerostar, Ranger	14
140 C.I., (2.3L), DOHC, GAS, FI, 16 Valve, Vin D, Z ""Duratec"" (2001-11)	Escape, Mariner, Ranger	15

(Cont'd) FORD TRUCK / PASSENGER TRUCK

Engine	Models	Line No.
4 Cylinder		
140 C.I., (2.3L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin H ""Hybrid"" (2005-08)	Escape, Mariner	16
140 C.I., (2.3L), DOHC, GAS, FI, 16 Valve, Vin H, ""EcoBoost TURBO"" (2015-21)	Corsair, Explorer, MKC, Ranger	17
152 C.I., (2.5L), DOHC, ELECTRIC/GAS, GAS, FI, 16 Valve, Vin 3, 7 ""Duratec"" (2009-20)	Escape, Mariner, Transit Connect	19
152 C.I., (2.5L), DOHC, CNG, LPG, FI, 16 Valve, Vin 7, ""Duratec"" (2014-21)	Transit Connect	20
153 C.I., (2.5L), SOHC, GAS, FI, 8 Valve, Vin C (1998-01) ..	Ranger	21
5 Cylinder		
195 C.I., (3.2L), DOHC, DIESEL, FI, 20 Valve, Vin V, 99V, ""Ford Duratorq Powerstroke TURBO"" (2015-19)	Transit-150, Transit-250, Transit-350, Transit-350 HD	29
6 Cylinder		
144 C.I., (2.4L), OHV, GAS, CARB, 12 Valve, Vin D, S (1960-64)	Falcon Sedan Delivery, Ranchero	18
164 C.I., (2.7L), DOHC, GAS, FI, 24 Valve, Vin P, ""EcoBoost TURBO"" (2015-21)	Edge, F-150, MKX, Nautilus	22
170 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, Vin F, U (1962-72)	Bronco, Falcon Sedan Delivery, Ranchero	23
171 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, Vin S (1983-86)	Aerostar, Bronco II, Ranger	24
177 C.I., (2.9L), OHV, GAS, FI, 12 Valve, Vin T (1986-92) ...	Bronco II, Ranger	25
181 C.I., (3.0L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 1, G, ""Duratec"" (2001-12)	Escape, Mariner	26
182 C.I., (3.0L), OHV, FLEX, GAS, FI, 12 Valve, Vin U, V, ""Vulcan"" (1986-08)	Aerostar, Ranger, Windstar	27
183 C.I., (3.0L), DOHC, DIESEL, FI, 24 Valve, Vin 1, ""Ford Powerstroke TURBO"" (2018-21)	F-150	28
200 C.I., (3.3L), OHV, GAS, CARB, 12 Valve, Vin T (1965-65)	Falcon Sedan Delivery, Ranchero	30
200 C.I., (3.3L), OHV, GAS, CARB, 12 Valve, Vin T (1973-74)	Bronco	31
3275cc, (3.3L), SOHC, GAS, FI, 12 Valve, Vin T, ""VG33E Nissan"" (1999-02)	Villager	32
204 C.I., (3.3L), DOHC, ELECTRIC/GAS, FLEX, GAS, FI, 24 Valve, Vin B, W, 99B, 99W, ""Duratec"" (2018-21)	Explorer, F-150, Police Interceptor Utility	33
213 C.I., (3.5L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 8, C, ""Duratec"" (2007-19)	Edge, Explorer, F-150, Flex	34
213 C.I., (3.5L), DOHC, GAS, FI, 24 Valve, Vin 4, G, T, ""EcoBoost TURBO"" (2010-21)	Expedition, Explorer, F-150, Flex, Police Interceptor Utility, Transit-150, Transit-250, Transit-350, Transit-350 HD	35
223 C.I., (3.6L), OHV, GAS, CARB, 12 Valve, Vin A, J, V (1954-64)	Courier Sedan Delivery, F-100, F-250, F-350, P-100, P-350, Ranchero	36
227 C.I., (3.7L), DOHC, CNG, FLEX, GAS, LPG, FI, 24 Valve, Vin K, M, R, 99M, ""Duratec"" (2010-19)	Edge, F-150, MKT, MKX, Police Interceptor Utility, Transit-150, Transit-250, Transit-350, Transit-350 HD	37
232 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 3 (1982-83)	F-100	38
232 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin 4 (1995-03) ...	Windstar	39
238 C.I., (3.9L), OHV, GAS, FI, 12 Valve, Vin 6 (2004-07) ...	Freestar	40

FORD TRUCK / PASSENGER TRUCK (Cont'd)

Engine	Models	Line No.
6 Cylinder		
240 C.I., (3.9L), OHV, GAS, CARB, 12 Valve, Vin 1, A, B, E, J, V (1965-74)	Bronco, Club Wagon, E-100 Econoline, E-200 Econoline, E-300 Econoline, Econoline, F-100, F-250, F-350, P-100, P-350	43
245 C.I., (4.0L), OHV, GAS, FI, 12 Valve, Vin X (1990-00) . . .	Explorer, Ranger	44
245 C.I., (4.0L), SOHC, FLEX, GAS, FI, 12 Valve, Vin E, K (1997-11)	Explorer, Explorer Sport, Explorer Sport Trac, Mountaineer, Ranger	45
256 C.I., (4.2L), OHV, GAS, FI, 12 Valve, Vin 2 (1997-08) . . .	E-150, E-150 Club Wagon, E-150 Econoline, E-150 Econoline Club Wagon, E-250, E-250 Econoline, F-150, F-150 Heritage, Freestar, Monterey	48
262 C.I., (4.3L), OHV, GAS, CARB, 12 Valve, Vin B (1961-64)	F-100, F-250, F-350	49
275 C.I., (4.5L), OHV, DIESEL, FI, 24 Valve, Vin Z, VT275, ""Navistar MaxxForce 5 TURBO"" (2006-10)	LCF	51
300 C.I., (4.9L), OHV, GAS, CARB, 12 Valve, Vin B, ""Heavy Duty"" (1965-79)	E-100 Econoline, E-100 Econoline Club Wagon, E-150 Econoline, E-150 Econoline Club Wagon, E-200 Econoline, E-250 Econoline, E-250 Econoline Club Wagon, E-300 Econoline, E-350 Econoline, E-350 Econoline Club Wagon, F-100, F-150, F-250, F-350, P-350, P-400, P-500	57
300 C.I., (4.9L), OHV, GAS, CARB, 12 Valve, Vin B, E, Y, ""Light Duty"" (1965-86)	Bronco, E-100 Econoline, E-100 Econoline Club Wagon, E-150 Econoline, E-150 Econoline Club Wagon, E-200 Econoline, E-250 Econoline, E-250 Econoline Club Wagon, E-300 Econoline, E-350 Econoline, E-350 Econoline Club Wagon, F-100, F-150, F-250, F-350, P-350, P-400, P-500	58
300 C.I., (4.9L), OHV, GAS, FI, 12 Valve, Vin Y, ""Light Duty"" (1987-96)	Bronco, E-150 Econoline, E-150 Econoline Club Wagon, E-250 Econoline, E-250 Econoline Club Wagon, E-350 Econoline, E-350 Econoline Club Wagon, F-150, F-250, F-350	59
300 C.I., (4.9L), OHV, BI-FUEL, FI, 12 Valve, Vin Z, ""LPG"" (1995-96)	E-250 Econoline, E-350 Econoline Club Wagon, F-150, F-250	60
401 C.I., (6.6L), DIESEL, FI, 12 Valve, Vin P, ""Brazilian TURBO"" (1986-93)	B600, B700, CF6000, CF7000, CF8000, F600, F600 LPO, F700, F700 LPO, F800, FT900, LN7000, LN8000, LTS8000F	89
473 C.I., (7.8L), DIESEL, FI, 12 Valve, Vin A, ""Brazilian TURBO"" (1987-94)	B700, C8000, CF8000, CFT8000, F600, F700, F800, FT900, L8000F, LA8000F, LN7000, LN8000, LNT8000F, LS8000F, LT8000F, LTS8000F	102
8 Cylinder		
239 C.I., (3.9L), OHV, GAS, CARB, 16 Valve, ""L-HEAD"" (1949-53)	Courier Sedan Delivery, F1, F-100, F2, F-250, F3, F-350, F4, M-47	41
239 C.I., (3.9L), OHV, GAS, CARB, 16 Valve, Vin U (1954-55)	Courier Sedan Delivery, F-100, F-250, F-350	42
255 C.I., (4.2L), OHV, GAS, CARB, 16 Valve, Vin D (1981-82)	F-100	46
256 C.I., (4.2L), OHV, GAS, CARB, 16 Valve (1955-55)	F-100, F-250, F-350	47
272 C.I., (4.4L), OHV, GAS, CARB, 16 Valve, Vin B, M, U (1956-57)	Courier Sedan Delivery, F-100, F-250, F-350, Ranchero	50
281 C.I., (4.6L), SOHC, FLEX, GAS, FI, 16 Valve, Vin 6, W, ""Triton"" (1997-14)	E-150, E-150 Club Wagon, E-150 Econoline, E-150 Econoline Club Wagon, E-250, Expedition, Explorer, F-150, F-150 Heritage, F-250, Mountaineer	52

(Cont'd) FORD TRUCK / PASSENGER TRUCK

Engine	Models	Line No.
8 Cylinder		
281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin H, ""In-Tech"" (2003-05)	Aviator	53
281 C.I., (4.6L), SOHC, GAS, FI, 24 Valve, Vin 8, ""Triton"" (2006-10)	Explorer, Explorer Sport Trac, F-150, Mountaineer	54
289 C.I., (4.7L), OHV, GAS, CARB, 16 Valve, Vin A, C, N (1965-68)	Bronco, Falcon Sedan Delivery, Ranchero	55
292 C.I., (4.8L), OHV, GAS, CARB, 16 Valve, Vin C, D (1958-64)	Courier Sedan Delivery, F-100, F-250, F-350, P-350, Ranchero	56
302 C.I., (5.0L), OHV, GAS, CARB, 16 Valve (1956-63)	F-Series	61
302 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, Vin B, F, G (1969-85)	Bronco, E-100 Econoline, E-100 Econoline Club Wagon, E-150 Econoline, E-150 Econoline Club Wagon, E-200 Econoline, E-250 Econoline, E-250 Econoline Club Wagon, E-300 Econoline, E-350 Econoline, E-350 Econoline Club Wagon, F-100, F-150, F-250, F-350, P-350, P-400, P-500, Ranchero	62
302 C.I., (5.0L), OHV, GAS, FI, 16 Valve, Vin N, P (1986-01)	Bronco, E-150 Econoline, E-150 Econoline Club Wagon, E-250 Econoline, Explorer, F-150, F-250	63
302 C.I., (5.0L), DOHC, FLEX, FI, 32 Valve, Vin 5, F, ""Coyote"" (2011-21)	F-150	64
330 C.I., (5.4L), OHV, GAS, CARB, 16 Valve, ""Medium Duty"" (1964-77)	F-500	65
330 C.I., (5.4L), OHV, GAS, CARB, 16 Valve, ""Heavy Duty"" (1964-79)	M-450 Motor Home	66
330 C.I., (5.4L), SOHC, BI-FUEL, CNG, FLEX, GAS, LPG, FI, 16 Valve, Vin L, M, Z, ""Triton"" (1997-16)	E-150, E-150 Club Wagon, E-150 Econoline, E-150 Econoline Club Wagon, E-250, E-250 Econoline, E-350 Club Wagon, E-350 Econoline, E-350 Econoline Club Wagon, E-350 Super Duty, Excursion, Expedition, F-150, F-150 Heritage, F-250, F-250 Super Duty, F-350 Super Duty, Navigator	67
330 C.I., (5.4L), SOHC, GAS, FI, 16 Valve, Vin 3, ""Triton Supercharged"" (1999-04)	F-150 Lightning, F-150 Heritage	68
330 C.I., (5.4L), DOHC, GAS, FI, 32 Valve, Vin A, R, ""InTech"" (1999-04)	Blackwood, Navigator	69
330 C.I., (5.4L), SOHC, FLEX, GAS, FI, 24 Valve, Vin 5, V, ""Triton"" (2004-14)	Expedition, F-150, F-250 Super Duty, F-350 Super Duty, Mark LT, Navigator	70
332 C.I., (5.4L), OHV, GAS, CARB, 16 Valve (1960-63)	F-100, F-250, F-350	71
351 C.I., (5.8L), OHV, GAS, CARB, 16 Valve, Vin G, H, ""Modified"" (1977-81)	Bronco, E-250 Econoline, E-250 Econoline Club Wagon, E-350 Econoline, E-350 Econoline Club Wagon, F-100, F-150, F-250, F-350, Ranchero	72
351 C.I., (5.8L), OHV, GAS, CARB, FI, 16 Valve, Vin G, H, Q, ""Windsor"" (1974-88)	Bronco, E-100 Econoline, E-100 Econoline Club Wagon, E-150 Econoline, E-150 Econoline Club Wagon, E-250 Econoline, E-250 Econoline Club Wagon, E-350 Econoline, E-350 Econoline Club Wagon, F-100, F-150, F-200, F-250, F-350, P-350, Ranchero	73
351 C.I., (5.8L), OHV, GAS, FI, 16 Valve, Vin H, R, ""Windsor"" (1988-97)	Bronco, E-150 Econoline, E-150 Econoline Club Wagon, E-250 Econoline, E-250 Econoline Club Wagon, E-350 Econoline, E-350 Econoline Club Wagon, Econoline Super Duty, F-150, F-250, F-250 HD, F-350	74
351 C.I., (5.8L), OHV, GAS, FI, 16 Valve, Vin R, ""Lightning"" (1993-95)	F-150 Lightning	75

FORD TRUCK / PASSENGER TRUCK (Cont'd)

Engine	Models	Line No.
8 Cylinder		
352 C.I., (5.8L), OHV, GAS, CARB, 16 Valve, Vin D (1965-67)	F-100, F-250, F-350, P-350, Ranchero	76
359 C.I., (5.9L), OHV, GAS, CARB, 16 Valve, Vin K, ""Medium Duty"" (1974-78)	Medium Duty Truck	77
360 C.I., (5.9L), OHV, GAS, CARB, 16 Valve, Vin Y (1968-76)	F-100, F-150, F-250, F-350, F-500, M-400, M-450, P-350	78
361 C.I., (5.9L), OHV, GAS, CARB, 16 Valve (1964-78)	F-100, F-250, F-350	79
365 C.I., (6.0L), OHV, DIESEL, FI, 32 Valve, Vin P ""Navistar VT Powerstroke TURBO"" (2003-10)	E-350 Club Wagon, E-350 Super Duty, E-450 Super Duty, Excursion, F-250 Super Duty, F-350 Super Duty, F-450 Super Duty, F-550 Super Duty, F650, F750	80
370 C.I., (6.1L), OHV, GAS, CARB, 16 Valve Vin A, H (1979-91)	Medium Duty Applications	81
379 C.I., (6.2L), SOHC, FLEX, GAS, FI, 16 Valve, Vin 6 (2010-21)	F-150, F-250 Super Duty, F-350 Super Duty	82
389 C.I., (6.4L), OHV, GAS, CARB, 16 Valve, Vin F (1975-78)	Medium Duty Applications	83
390 C.I., (6.4L), OHV, GAS, CARB, 16 Valve, Vin H, M, S, Y (1968-76)	F-100, F-150, F-250, F-350, F-500, M-400, Ranchero	84
391 C.I., (6.4L), OHV, GAS, CARB, 16 Valve, Vin F (1964-78)	Medium Duty Applications	85
391 C.I., (6.4L), OHV, DIESEL, FI, 32 Valve, Vin R, ""Navistar MaxxForce 7 TURBO"" (2008-10)	F-250 Super Duty, F-350 Super Duty, F-450 Super Duty, F-550 Super Duty	86
400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin S, Z (1977-82)	Bronco, E-100 Econoline, E-250 Econoline, E-250 Econoline Club Wagon, E-350 Econoline, E-350 Econoline Club Wagon, F-100, F-150, F-250, F-350, P-500, Ranchero	87
401 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin H (1958-76)	Medium Duty Applications	88
406 C.I., (6.7L), OHV, DIESEL, FI, 32 Valve, Vin T, ""Ford Scorpion Powerstroke TURBO"" (2011-21)	F-250 Super Duty, F-350 Super Duty, F-450 Super Duty, F-550 Super Duty	90
420 C.I., (6.9L), OHV, DIESEL, FI, 16 Valve, Vin 1 ""International"" (1983-87)	E-250 Econoline Club Wagon, E-350 Econoline, E-350 Econoline Club Wagon, F-150, F-250, F-350	93
429 C.I., (7.0L), OHV, GAS, CARB, 16 Valve, Vin C, K, ""Medium Duty"" (1979-91)	B600, B700, C700, C800, F600, F600 LPO, F700, F800, FT800, L800, LN700, LN800, LNT800	94
429 C.I., (7.0L), OHV, LPG, CARB, FI, 16 Valve, Vin J, K, ""LPG Medium Duty"" (1991-98)	F600, F600 LPO, F700, F700 LPO, F800, P600	95
429 C.I., (7.0L), OHV, GAS, FI, 16 Valve, Vin J, ""Medium Duty"" (1991-98)	F600, F600 LPO, F700, F700 LPO, F800, P600	96
445 C.I., (7.3L), OHV, DIESEL, FI, 16 Valve, Vin M, ""Navistar IDI Naturally Aspirated"" (1988-95)	E-250 Econoline Club Wagon, E-350 Econoline, E-350 Econoline Club Wagon, F Super Duty, F-250, F-350, F59	97
445 C.I., (7.3L), OHV, DIESEL, FI, 16 Valve, Vin C, K, ""Navistar IDI TURBO"" (1993-94)	F Super Duty, F-250, F-350, F59	98

(Cont'd) FORD TRUCK / PASSENGER TRUCK

Engine	Models	Line No.
8 Cylinder		
445 C.I., (7.3L), OHV, DIESEL, FI, 16 Valve, Vin F, ""Navistar T444E Powerstroke DI TURBO"" (1994-03)	E-350 Club Wagon, E-350 Econoline, E-350 Econoline Club Wagon, E-350 Super Duty, E-450 Econoline Super Duty, E-450 Super Duty, E-550 Econoline Super Duty, E-550 Super Duty, Econoline Super Duty, Excursion, F Super Duty, F-250, F-250 HD, F-250 Super Duty, F-350, F-350 Super Duty, F-450 Super Duty, F-550 Super Duty, F59 . . . . .	.99
460 C.I., (7.5L), OHV, GAS, CARB, 16 Valve, Vin A, J, L (1973-87)	E-100 Econoline, E-250 Econoline, E-250 Econoline Club Wagon, E-350 Econoline, E-350 Econoline Club Wagon, F-100, F-150, F-250, F-350, Ranchero	100
460 C.I., (7.5L), OHV, GAS, FI, 16 Valve, Vin G (1988-97) . . .	E-250 Econoline Club Wagon, E-350 Econoline, E-350 Econoline Club Wagon, Econoline Super Duty, F Super Duty, F-250, F-250 HD, F-350, F53	101
475 C.I., (7.8L), OHV, GAS, CARB, 16 Valve, Vin J, ""Medium Duty"" (1973-79)	Medium Duty Applications	103
477 C.I., (7.8L), OHV, GAS, CARB, 16 Valve, Vin K, ""Medium Duty"" (1958-81)	Medium Duty Applications	104
534 C.I., (8.8L), OHV, GAS, CARB, 16 Valve, Vin L, ""Medium Duty"" (1958-81)	Medium Duty Applications	105
10 Cylinder		
415 C.I., (6.8L), SOHC, CNG, GAS, LPG, FI, 20 Valve, Vin S, ""Triton"" (1997-19)	E-350 Club Wagon, E-350 Econoline, E-350 Econoline Club Wagon, E-350 Super Duty, E-450 Econoline Super Duty, E-450 Super Duty, E-550 Econoline Super Duty, E-550 Super Duty, Econoline Super Duty, Excursion, F-250 Super Duty, F-350 Super Duty, F-450 Super Duty, F53, F-550 Super Duty . . . . .	.91
415 C.I., (6.8L), SOHC, CNG, GAS, LPG, FI, 30 Valve, Vin Y, ""Triton"" (2005-19)	E-450 Super Duty, F-250 Super Duty, F-350 Super Duty, F-450 Super Duty, F53, F-550 Super Duty, F59, F650, F750 . . . . .	.92

61 C.I., (1.0L), DOHC, GAS, FI, 12 Valve, Vin E, ""EcoBoost TURBO"" FOT1.0-ECO 1
 2018-21 L3 61 CID BORE - 71.9mm/2.83""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2018-20	13457	1.067 Head Diameter
	Exh	2018-19	13458S	0.909 Head Diameter,Stellite Face
Keeper	Both	2018-20	121-1144	3 RD Bead Type
Stem Seal	Both	2018-20	122-1501	Positive Type,Viton Material,Top Hat Style

91 C.I., (1.5L), DOHC, GAS, FI, 16 Valve, Vin D, ""EcoBoost TURBO"" FOT1.5-ECO 2
 2017-19 L4 91 CID BORE - 79mm/3.11""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2017-19	13455	1.185 Head Diameter
	Exh	2017-19	13456	0.980 Head Diameter
Keeper	Both	2017-19	121-1144	3 RD Bead Type
Stem Seal	Both	2017-19	122-1501	Positive Type,Viton Material,Top Hat Style
Guide	Both	2017-20	140-3214H	0.1966 I.D.,1.420 Length,0.3745 O.D.
Spring	Both	2017-19	160-1692	1.872 Length

97 C.I., (1.6L), DOHC, GAS, FI, 16 Valve, Vin X, ""EcoBoost TURBO"" FOT1.6-ECO 3
 2013-16 L4 97 CID BORE - 79mm/3.11""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2013-16	13455	1.185 Head Diameter

FORD TRUCK / PASSENGER TRUCK (Cont'd)

3 97 C.I., (1.6L), DOHC, GAS, FI, 16 Valve, Vin X, ""EcoBoost TURBO"" FOT1.6-ECO
(cont.) 2013-16 L4 97 CID BORE - 79mm/3.11""

PART	YEARS	PART NO.	NOTES	
Valve	Exh	2013-16	13456	0.980 Head Diameter
Keeper	Both	2013-16	121-1144	3 RD Bead Type
Stem Seal	Both	2013-16	122-1501	Positive Type,Viton Material,Top Hat Style
Guide	Both	2013-20	140-3214H	0.1966 I.D.,1.420 Length,0.3745 O.D.
Spring	Both	2013-16	160-1692	1.872 Length

4 1803cc, (1.8L), SOHC, GAS, CARB, 8 Valve, Vin A ""Mazda"" 110A
1972-78 L4 110 CID BORE - 78mm/3.07""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1972-78	SB1500-57	1½ O.D.,1.100T I.D.,0.3160 Depth
Valve	Int	1972-78	10061	1.656 Head Diameter
	Exh	1972-78	10060S	1.297 Head Diameter,Stellite Face
Keeper	Exh	1972-78	121-1026	1 RD Bead Type,0.090 Bead Dia.

5 1989cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin 1, C, ""Mazda"" 121C1
1979-82 L4 122 CID BORE - 87.5mm/3.45""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1979-82	SB1500-57	1½ O.D.,1.100T I.D.,0.3160 Depth
Valve	Int	1979-82	10061	1.656 Head Diameter
	Exh	1979-82	10060S	1.297 Head Diameter,Stellite Face
Keeper	Exh	1979-82	121-1026	1 RD Bead Type,0.090 Bead Dia.
Guide	Both	1979-82	140-9557	0.3180 I.D.,2.000 Length,0.5535 O.D.,W/ Snap Ring

6 121 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin B ""Zetec"" FOT2.0-DC
2001-04 L4 121 CID BORE - 84.8mm/3.34""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2001-04	SB1339E-2	34mm O.D.,26mm I.D.,8.5mm Depth,Note: Adjustable Cutter Required Due To Insufficient Room Between Intake Seats
	Exh	2001-04	SB1187-51	1¾ O.D.,0.905 I.D.,0.2570 Depth
Valve	Int	2001-04	01745	1.260 Head Diameter
	Exh	2001-04	01746	1.102 Head Diameter
Keeper	Both	2001-04	121-1101	1 RD Bead Type
Stem Seal	Both	2001-04	122-1342	Positive Type,Viton Material,Top Hat Style
Guide	Both	2001-04	140-8662	0.2390 I.D.,1.420 Length,0.4727 O.D.
Spring	Int	2001-04	160-1580	1.694 Length,Conical
Head Bolt Set		2001-04	220-1121	Torque To Yield,Services Engine
Head Saver Shim		2001-04	230-2082	New Hgt.- 5.230 - 5.236; Min. Hgt 5.225

7 121 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin N ""Duratec"" FOT2.0-N
2010-13 L4 121 CID BORE - 87.4mm/3.44""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2010-13	02006	1.378 Head Diameter
	Exh	2010-13	02007	1.181 Head Diameter
Keeper	Both	2010-13	121-1104	1 RD Bead Type
Stem Seal	Int	2010-13	122-1410	Positive Type,Viton Material,Top Hat Style
	Exh	2010-13	122-1411	Positive Type,Viton Material,Top Hat Style
Guide	Both	2010-13	140-3070	0.2170 I.D.,1.535 Length,0.4345 O.D.
Spring	Both	2010-13	160-1568	1.908 Length,Conical

(Cont'd) FORD TRUCK / PASSENGER TRUCK

121 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin N ""Duratec"" FOT2.0-N **7**
 2010-13 L4 121 CID BORE - 87.4mm/3.44"" (cont.)

PART	YEARS	PART NO.	NOTES
Head Bolt Set	2010-13	220-1111	Torque To Yield,Services Engine
Head Saver Shim	2010-13	230-2144	New Hgt. - Min. Hgt. N/A

122 C.I., (2.0L), SOHC, GAS, CARB, 8 Valve, Vin C 122C **8**
 1983-88 L4 122 CID BORE - 89.4mm/3.52""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1983-88	SB1687-2	1 ¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh 1983-88	SB1437-2	1 ⁷ / ₁₆ O.D.,1 ⁷ / ₃₂ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int 1983-88	01528	1.610 Head Diameter
	Exh 1983-88	01527	1.380 Head Diameter
Keeper	Both 1983-88	121-1019	4 RD Bead Type
Stem Seal	Int 1987-88	122-1200	Positive Type,Viton Material,Metal Clad Style
	Exh 1987-88	122-1199	Positive Type,Viton Material,Metal Clad Style
	Both 1983-86	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
Guide	Both 1983-88	140-9206	0.3440 I.D.,2.188 Length,0.5020 O.D.,Flanged
Lifter	Both 1983-88	VL83	Hydraulic Lash Adjuster Type
Rocker Components	Both 1983-88	180-1037	Cam Follower

122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin 9, ""EcoBoost TURBO"" FOT2.0-ECO **9**
 2012-21 L4 122 CID BORE - 87.5mm/3.44""

PART	YEARS	PART NO.	NOTES
Keeper	Both 2012-20	121-1104	1 RD Bead Type
Stem Seal	Int 2012-20	122-1410	Positive Type,Viton Material,Top Hat Style
	Exh 2012-20	122-1411	Positive Type,Viton Material,Top Hat Style
Spring	Int 2015-18	160-1684	1.877 Length,Conical, W/ White Stripe,15-18 Edge.
	Exh 2015-18	160-1685	1.852 Length,Conical, Blue In Color,15-18 Edge
	Both 2012-16	160-1684	1.877 Length,Conical, W/ White Stripe,12-14 Edge, 12-15 Explorer, 13-16 Escape, 15-16 MKC
	2017-19	160-1685	1.852 Length,Conical, Blue In Color,17-18 Escape, 17-19 MKC

122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin L, 99L, ""Duratec"" FOT2.0-99L_DURA **10**
 2018-21 L4 122 CID BORE - 87.5mm/3.44""

PART	YEARS	PART NO.	NOTES
Valve	Int 2018-20	02006	1.378 Head Diameter
Keeper	Both 2018-20	121-1104	1 RD Bead Type
Stem Seal	Int 2018-20	122-1410	Positive Type,Viton Material,Top Hat Style
	Exh 2018-20	122-1411	Positive Type,Viton Material,Top Hat Style
Guide	Both 2018-20	140-3070	0.2170 I.D.,1.535 Length,0.4345 O.D.
Spring	Both 2018-20	160-1568	1.908 Length,Conical

2294cc, (2.3L), OHV, DIESEL, FI, 8 Valve, Vin E, ""Mitsubishi TURBO"" 140E **11**
 1985-87 L4 140 CID BORE - 87.4mm/3.44""

PART	YEARS	PART NO.	NOTES
Keeper	Both 1985-87	121-1039	1 RD Bead Type
Stem Seal	Both 1985-87	122-1075	Positive Type,Viton Material,Ring & Band Style
	1985-87	122-1086	Positive Type,Viton Material,Metal Clad Style

FORD TRUCK / PASSENGER TRUCK (Cont'd)

12 140 C.I., (2.3L), SOHC, GAS, CARB, 8 Valve, Vin 2, B
1977-82 L4 140 CID

FOT140-B2
BORE - 87.4mm/3.44"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1977-82	SB1812-2 SB1562-1	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 7/ ₃₂ Depth
	Exh	1977-82		1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/ ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1977-82	01598 01597	1.735 Head Diameter
	Exh	1977-82		1.500 Head Diameter
Keeper	Both	1977-82	121-1019	4 RD Bead Type
Stem Seal	Both	1977-82	122-1075	Positive Type, Viton Material, Ring & Band Style
Guide	Both	1977-82	140-9206	0.3440 I.D., 2.188 Length, 0.5020 O.D., Flanged
Lifter	Both	1977-82	VL83	Hydraulic Lash Adjuster Type
Rocker Components	Both	1977-82	180-1037	Cam Follower
Head Bolt Set		1977-82	220-1006	Torque To Yield, When Used to Replace Non-TTY Bolts, Bolts Must Be Tightened to Specs as Follows: Torque to 51 ft. lbs., Loosen All Bolts, Then Torque to 51 ft. lbs., Then Tighten All Bolts an Additional 90 - 100 Degrees., Services Engine

13 140 C.I., (2.3L), SOHC, GAS, CARB, 8 Valve, Vin A
1983-84 L4 140 CID

140A-CA
BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1983-84	SB1812-2 SB1562-1	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 7/ ₃₂ Depth
	Exh	1983-84		1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/ ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1983-84	01598 01597	1.735 Head Diameter
	Exh	1983-84		1.500 Head Diameter
Keeper	Both	1983-84	121-1019	4 RD Bead Type
Stem Seal	Both	1983-84	122-1075	Positive Type, Viton Material, Ring & Band Style
Guide	Both	1983-84	140-9206	0.3440 I.D., 2.188 Length, 0.5020 O.D., Flanged
Lifter	Both	1983-84	VL83	Hydraulic Lash Adjuster Type
Rocker Components	Both	1983-84	180-1037	Cam Follower
Head Bolt Set		1983-84	220-1006	Torque To Yield, When Used to Replace Non-TTY Bolts, Bolts Must Be Tightened to Specs as Follows: Torque to 51 ft. lbs., Loosen All Bolts, Then Torque to 51 ft. lbs., Then Tighten All Bolts an Additional 90 - 100 Degrees., Services Engine

14 140 C.I., (2.3L), SOHC, GAS, FI, 8 Valve, Vin A
1985-97 L4 140 CID

140A-FI
BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1985-97	SB1812-2 SB1562-1	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 7/ ₃₂ Depth
	Exh	1985-97		1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/ ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1985-94	01598 01743	1.735 Head Diameter, W/ .3419 Stem Dia., 4 Groove
		1995-97		1.735 Head Diameter, W/ 7mm Stem Dia.
	Exh	1985-94	01597 01744	1.500 Head Diameter, W/ .3414 Stem Dia., 4 Groove
		1995-97		1.500 Head Diameter, W/ 7mm Stem Dia.
Keeper	Both	1985-94	121-1019 121-1084	4 RD Bead Type, W/ .3410 Stem Dia.
		1995-97		3 RD Bead Type, W/ 7mm Stem Dia.
Stem Seal	Int	1985-94	122-1200	Positive Type, Viton Material, Metal Clad Style, W/ .3410 Stem Dia.

(Cont'd) **FORD TRUCK / PASSENGER TRUCK**

140 C.I., (2.3L), SOHC, GAS, FI, 8 Valve, Vin A
1985-97 L4 140 CID

140A-FI **14**
BORE - 96mm/3.78" (cont.)

PART	YEARS	PART NO.	NOTES	
Stem Seal	Exh	1985-94	122-1199	Positive Type,Viton Material,Metal Clad Style,W/ .3410 Stem Dia.
	Both	1985-94	122-1075	Positive Type,Viton Material, Ring & Band Style,W/ .3410 Stem Dia.
		1995-97	122-1226	Positive Type,Viton Material,Metal Clad Style,W/ 7mm Stem Dia.
Guide	Int	1985-94	140-9206	0.3440 I.D.,2.188 Length,0.5020 O.D.,Flanged,W/ .3410 Stem Dia.
	Exh	1985-94	140-9846	0.3440 I.D.,2.313 Length,0.5020 O.D.,Flanged,W/ .3410 Stem Dia., -5 U/S I.D. Available (140-9846U)
	Both	1995-97	140-8274	0.2765 I.D.,1.930 Length,0.4953 O.D.,W/ 7mm Stem Dia., +2, +3 O/S Available
Spring	Both	1995-97	160-1383	2.020 Length
Lifter	Both	1985-97	VL83	Hydraulic Lash Adjuster Type
Rocker Components	Both	1985-87	180-1037	Cam Follower
Head Bolt Set		1985-94	220-1006	Torque To Yield,When Used to Replace Non-TTY Bolts, Bolts Must Be Tightened to Specs as Follows: Torque to 51 ft. lbs., Loosen All Bolts, Then Torque to 51 ft. lbs., Then Tighten All Bolts an Additional 90 - 100 Degrees., Services Engine

140 C.I., (2.3L), DOHC, GAS, FI, 16 Valve, Vin D, Z "Duratec"
2001-11 L4 140 CID

FOT2.3-DC **15**
BORE - 87.4mm/3.44"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	2001-11	SB1250-62	1¼ O.D.,1.000 I.D.,0.3050 Depth
Valve	Int	2001-11	02006	1.378 Head Diameter
	Exh	2001-11	02007	1.181 Head Diameter
Keeper	Both	2001-11	121-1104	1 RD Bead Type
Stem Seal	Int	2001-11	122-1410	Positive Type,Viton Material,Top Hat Style
	Exh	2001-11	122-1411	Positive Type,Viton Material,Top Hat Style
Guide	Both	2001-11	140-3070	0.2170 I.D.,1.535 Length,0.4345 O.D.
Spring	Both	2001-03	160-1506	1.776 Length,Conical
		2004-11	160-1568	1.908 Length,Conical
Head Bolt Set		2001-11	220-1111	Torque To Yield,Services Engine
Head Saver Shim		2001-11	230-2144	New Hgt. - Min. Hgt. N/A

140 C.I., (2.3L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin H "Hybrid"
2005-08 L4 140 CID

FOT2.3-DCE **16**
BORE - 87.4mm/3.44"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	2005-08	SB1250-62	1¼ O.D.,1.000 I.D.,0.3050 Depth
Valve	Int	2005-08	02006	1.378 Head Diameter
	Exh	2005-08	02007	1.181 Head Diameter
Keeper	Both	2005-08	121-1104	1 RD Bead Type
Stem Seal	Int	2005-08	122-1410	Positive Type,Viton Material,Top Hat Style
	Exh	2005-08	122-1411	Positive Type,Viton Material,Top Hat Style
Guide	Both	2005-08	140-3070	0.2170 I.D.,1.535 Length,0.4345 O.D.
Spring	Both	2005-06	160-1506	1.776 Length,Conical
		2007-08	160-1568	1.908 Length,Conical
Head Saver Shim		2005-08	230-2144	New Hgt. - Min. Hgt. N/A

FORD TRUCK / PASSENGER TRUCK (Cont'd)

17 140 C.I., (2.3L), DOHC, GAS, FI, 16 Valve, Vin H, ""EcoBoost TURBO"" FOT2.3-ECO
 2015-21 L4 140 CID BORE - 87.6mm/3.45""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2015-20	121-1104	1 RD Bead Type
Stem Seal	Int	2015-20	122-1410	Positive Type,Viton Material,Top Hat Style
	Exh	2015-20	122-1411	Positive Type,Viton Material,Top Hat Style
Spring	Both	2015-20	160-1685	1.852 Length,Conical, Blue In Color,OEM # F2GZ6513A

18 144 C.I., (2.4L), OHV, GAS, CARB, 12 Valve, Vin D, S FOT144
 1960-64 L6 144 CID BORE - 88.9mm/3.50""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1960-64	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1960-64	SB1375-4	1 ³ / ₈ O.D.,1 ¹ / ₈ I.D., ⁹ / ₁₆ Depth
Valve	Exh	1960-64	00564	1.268 Head Diameter
Keeper	Exh	1960-64	121-1011	1 SQ Bead Type
Stem Seal	Both	1960-64	122-1009	Positive Type,Tef/Rub Material,1-Ring Style,Machine Guide To 0.500 O.D.
Guide	Both	1960-64	140-6869	0.3125 I.D.,1.875 Length,0.4390 O.D.,Plain I.D. Conversion Guide
		1960-64	140-6977	0.3120 I.D.,2.281 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1960-64	140-9869	0.3125 I.D.,1.875 Length,0.4390 O.D.,Spiral I.D. Conversion Guide
		1960-64	140-9977	0.3120 I.D.,2.281 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9977H), -5 U/S I.D. Available (140-9977U)
Spring	Both	1960-64	160-1127	2.000 Length,W/ Mechanical Lifters
Push Rod	Both	1960-64	190-1280	8.021 Length,W/ Mechanical Lifters

19 152 C.I., (2.5L), DOHC, ELECTRIC/GAS, GAS, FI, 16 Valve, Vin 3, 7 ""Duratec"" FOT2.5-DC
 2009-20 L4 152 CID BORE - 88.9mm/3.50""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2009-20	02006	1.378 Head Diameter
	Exh	2009-20	02007	1.181 Head Diameter
Keeper	Both	2009-20	121-1104	1 RD Bead Type
Stem Seal	Int	2009-20	122-1410	Positive Type,Viton Material,Top Hat Style
	Exh	2009-20	122-1411	Positive Type,Viton Material,Top Hat Style
Guide	Both	2009-20	140-3070	0.2170 I.D.,1.535 Length,0.4345 O.D.
Spring	Both	2009-19	160-1568	1.908 Length,Conical
Head Bolt Set		2009-20	220-1111	Torque To Yield,Services Engine

20 152 C.I., (2.5L), DOHC, CNG, LPG, FI, 16 Valve, Vin 7, ""Duratec"" FOT2.5-CNG
 2014-21 L4 152 CID BORE - 88.9mm/3.50""

PART	YEARS	PART NO.	NOTES	
Valve	Exh	2014-20	02007	1.181 Head Diameter
Keeper	Both	2014-20	121-1104	1 RD Bead Type
Stem Seal	Int	2014-20	122-1410	Positive Type,Viton Material,Top Hat Style
	Exh	2014-20	122-1411	Positive Type,Viton Material,Top Hat Style
Guide	Both	2014-20	140-3070	0.2170 I.D.,1.535 Length,0.4345 O.D.
Spring	Both	2014-19	160-1684	1.877 Length,Conical, W/ White Stripe

(Cont'd) FORD TRUCK / PASSENGER TRUCK

152 C.I., (2.5L), DOHC, CNG, LPG, FI, 16 Valve, Vin 7, ""Duratec"" FOT2.5-CNG **20**
 2014-21 L4 152 CID BORE - 88.9mm/3.50"" (cont.)

PART	YEARS	PART NO.	NOTES
Head Bolt Set	2014-20	220-1111	Torque To Yield,Services Engine

153 C.I., (2.5L), SOHC, GAS, FI, 8 Valve, Vin C FOT2.5-SC **21**
 1998-01 L4 153 CID BORE - 96mm/3.78""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1998-01 1998-01	SB1812-2 SB1562-6	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth 1 ⁹ / ₁₆ O.D., 1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int Exh	1998-01 1998-01	01743 01744	1.735 Head Diameter, Includes Flex-Fuel 1.500 Head Diameter, Includes Flex-Fuel
Keeper	Both	1998-01	121-1084	3 RD Bead Type
Stem Seal	Both	1998-01	122-1226	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1998-01	140-8274	0.2765 I.D., 1.930 Length, 0.4953 O.D.
Spring	Both	1998-01	160-1383	2.020 Length
Lifter	Both	1998-01	VL83	Hydraulic Lash Adjuster Type
Head Bolt Set		1998-01	220-1006	Torque To Yield

164 C.I., (2.7L), DOHC, GAS, FI, 24 Valve, Vin P, ""EcoBoost TURBO"" FOT2.7-ECO **22**
 2015-21 V6 164 CID BORE - 83.1mm/3.27""

PART	YEARS	PART NO.	NOTES	
Valve	Int Exh	2015-20 2015-18	13428 13429	1.280 Head Diameter, 15-19 Edge, 15-18 F150 1.114 Head Diameter, Inconel, 15-18 Edge, 15-17 F150
Keeper	Both	2015-20	121-1140	3 RD Bead Type
Stem Seal	Both	2015-18	122-1493	Positive Type, Viton Material, Top Hat Style
Spring	Both	2015-20	160-1666	2.070 Length, Conical, NOTE: Nautilus, Edge ONLY
Lifter	Both	2015-20	VL575	Hydraulic Lash Adjuster Type
Rocker Components	Both	2015-20	180-1342	Roller Cam Follower

170 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, Vin F, U FOT170 **23**
 1962-72 L6 170 CID BORE - 88.9mm/3.50""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1962-64	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.527 Valve Head Dia.
		1965-72	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.651 Valve Head Dia.
	Exh	1962-64	SB1375-4	1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., ³ / ₁₆ Depth, W/ 1.268 Valve Head Dia.
		1965-72	SB1437-3	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.390 Valve Head Dia.
Valve	Int	1962-64	00627	1.527 Head Diameter
		1965-72	01268	1.651 Head Diameter
	Exh	1962-64	00564	1.268 Head Diameter
		1965-72	01266	1.390 Head Diameter, +15 O/S Stem Available
Keeper	Both	1962-72	121-1011	1 SQ Bead Type
Stem Seal	Both	1962-72	122-1009	Positive Type, Tef/Rub Material, 1-Ring Style, Machine Guide To 0.500 O.D.
		1962-72	122-1034	Umbrella Type, Poly Material, Umbrella Style

FORD TRUCK / PASSENGER TRUCK (Cont'd)

23 170 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, Vin F, U FOT170
 (cont.) 1962-72 L6 170 CID BORE - 88.9mm/3.50"

PART	YEARS	PART NO.	NOTES	
Guide	Both	1962-72	140-6869	0.3125 I.D., 1.875 Length, 0.4390 O.D., Plain I.D. Conversion Guide
		1962-72	140-6977	0.3120 I.D., 2.281 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1962-72	140-9869	0.3125 I.D., 1.875 Length, 0.4390 O.D., Spiral I.D. Conversion Guide
		1962-72	140-9977	0.3120 I.D., 2.281 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9977H), -5 U/S I.D. Available (140-9977U)
Spring	Both	1962-72	160-1127	2.000 Length, W/ Mechanical Lifters
Push Rod	Both	1962-72	190-1280	8.021 Length, W/ Mechanical Lifters

24 171 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, Vin S FOT171S
 1983-86 V6 171 CID BORE - 93mm/3.66"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1983-86	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 7 ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1983-86	SB1375-4	1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., 3 ³ / ₁₆ Depth
Valve	Int	1983-86	01285	1.570 Head Diameter, 1 Groove
	Exh	1983-86	01300	1.269 Head Diameter, 3 Groove
Keeper	Int	1983-86	121-1011	1 SQ Bead Type
	Exh	1983-86	121-1083	3 RD Bead Type
Stem Seal	Both	1983-86	122-1039	Positive Type, Poly Material, 1-Spring Style
Guide	Both	1983-86	140-7198	0.3175 I.D., 2.000 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1983-86	140-9198	0.3174 I.D., 2.000 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Rocker Components	Both	1983-86	180-1007	Rocker Arm, Adjustable, W/ .635 Pad Width, Replaces Narrow Pad Arm
Push Rod	Both	1983-86	190-1435	5.429 Length

25 177 C.I., (2.9L), OHV, GAS, FI, 12 Valve, Vin T FOT177T
 1986-92 V6 177 CID BORE - 93mm/3.66"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1986-92	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7 ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1986-92	SB1500-1	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., 7 ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1986-92	10385	1.656 Head Diameter, 1 Groove, +15 O/S Stem Available
	Exh	1986-92	10386	1.418 Head Diameter, 3 Groove, +15 O/S Stem Available
Keeper	Int	1986-92	121-1011	1 SQ Bead Type
	Exh	1986-92	121-1083	3 RD Bead Type
Stem Seal	Both	1986-92	122-1067	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1986-92	140-7198	0.3175 I.D., 2.000 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1986-92	140-9198	0.3174 I.D., 2.000 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Lifter	Both	1986-92	VL9	Hydraulic Type
Rocker Components	Both	1986-92	180-1007	Rocker Arm, Adjustable, W/ .635 Pad Width, Replaces Narrow Pad Arm
Push Rod	Both	1986-92	190-1435	5.429 Length

(Cont'd) FORD TRUCK / PASSENGER TRUCK177 C.I., (2.9L), OHV, GAS, FI, 12 Valve, Vin T
1986-92 V6 177 CIDFOT177T **25**
BORE - 93mm/3.66" (cont.)

PART	YEARS	PART NO.	NOTES
Head Bolt Set	1986-92	220-1016	Torque To Yield,Services Engine

181 C.I., (3.0L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 1, G, ""Duratec""
2001-12 V6 181 CIDFOT3.0-DC **26**
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 2001-12	SB1250-56	1¼ O.D.,0.905T I.D.,0.2300 Depth
Valve	Int 2001-12	01787	1.378 Head Diameter
	Exh 2001-12	01788	1.181 Head Diameter
Keeper	Both 2001-12	121-1082	3 RD Bead Type
Stem Seal	Both 2001-12	122-1229	Positive Type,Viton Material,Top Hat Style
Guide	Both 2001-12	140-8560	0.2370 I.D.,1.880 Length,0.4953 O.D.
Spring	Both 2001-08	160-1490	1.847 Length
Lifter	Both 2001-12	VL107	Hydraulic Lash Adjuster Type
Rocker Components	Both 2001-12	180-1333	Roller Cam Follower
Head Bolt Set	2001-12	220-1094	Torque To Yield,2 Required
Head Saver Shim	2001-12	230-2130L	Left,New Hgt. - 5.1550 - 5.1630; Min. Hgt. N/A
	2001-12	230-2130R	Right,New Hgt. - 5.1550 - 5.1630; Min. Hgt. N/A

182 C.I., (3.0L), OHV, FLEX, GAS, FI, 12 Valve, Vin U, V, ""Vulcan""
1986-08 V6 182 CIDFOT182U **27**
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1986-08	SB1750-2	1¾ O.D.,1½ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh 1986-08	SB1437-3N	
Valve	Int 1986-99 2000-08	01536	1.661 Head Diameter,0.3130 Stem Dia.
		02046	1.661 Head Diameter,7mm Stem Dia., Includes ""Flex-Fuel"" Applications
	Exh 1986-99 2000-08	01535	1.371 Head Diameter,0.3125 Stem Dia.
		02047	1.371 Head Diameter,7mm Stem Dia., Includes ""Flex-Fuel"" Applications
Keeper	Both 1986-99 2000-08	121-1083	3 RD Bead Type
		121-1084	3 RD Bead Type,Use W/ 7mm Stem Dia.
Stem Seal	Int 1986-99 2000-08	122-1065	Positive Type,Viton Material,Ring & Band Style,Use With ⁵ / ₁₆ Stem Dia.
		122-1357	Positive Type,Viton Material,Ring & Band Style,Green,Use W/ 7mm Stem Dia.
	Exh 1986-99 2000-08	122-1066	Positive Type,Viton Material,Ring & Band Style,Use With ⁵ / ₁₆ Stem Dia.
		122-1358	Positive Type,Viton Material,Ring & Band Style,Orange,Use W/7mm Stem Dia.
Guide	Both 1986-99 2000-08	140-9204	0.3150 I.D.,2.200 Length,0.4390 O.D.,Use With ⁵ / ₁₆ Stem Dia.
		140-3048	0.2768 I.D.,2.500 Length,0.4747 O.D.,Use W/ 7mm Stem Dia., W/ Seal Boss; NOTE: W/.4747 O.D.
	2000-08	140-3066	0.2768 I.D.,2.200 Length,0.4390 O.D.,Use W/ 7mm Stem Dia., W/O Seal Boss; NOTE: W/.4390 O.D.
Spring	Both 1986-99 2000-08	160-1072	1.840 Length
		160-1437	1.834 Length,Conical
Lifter	Both 1986-91 1992-08	VL35	Hydraulic Type
		VL100	Hydraulic Roller Type
Rocker Components	Both 1986-08	180-1315	Rocker Arm

FORD TRUCK / PASSENGER TRUCK (Cont'd)

27 182 C.I., (3.0L), OHV, FLEX, GAS, FI, 12 Valve, Vin U, V, ""Vulcan"" FOT182U
 (cont.) 1986-08 V6 182 CID BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES	
Push Rod	Both	1992-96	190-1524	5.332 Length,W/ Roller Lifters
		1997-08	190-1541	5.297 Length,W/ Roller Lifters
Head Bolt Set		1986-98	220-1005	Torque To Yield,Services Engine; To 7/13/98
		1998-08	220-1096	Torque To Yield,Services Engine; From 7/14/98
Head Saver Shim	1986-08	230-2177	New Hgt. - 3.620 - 3.630; Min. Hgt. - N/A	

28 183 C.I., (3.0L), DOHC, DIESEL, FI, 24 Valve, Vin 1, ""Ford Powerstroke TURBO"" FOT3.0TD
 2018-21 V6 183 CID BORE - 84mm/3.31""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2018-20	121-1143	3 RD Bead Type

29 195 C.I., (3.2L), DOHC, DIESEL, FI, 20 Valve, Vin V, 99V, ""Ford Duratorq Powerstroke TURBO"" FOT3.2-20VTD
 2015-19 L5 195 CID BORE - 89.9mm/3.54""

PART	YEARS	PART NO.	NOTES	
Valve	Int Exh	2015-19	13445	1.173 Head Diameter
		2015-19	13446S	1.016 Head Diameter,Stellite Face
Keeper	Both	2015-19	121-1128	3 RD Bead Type
Stem Seal	Both	2015-19	122-1494	Positive Type,Viton Material,Top Hat Style

30 200 C.I., (3.3L), OHV, GAS, CARB, 12 Valve, Vin T FOT200-65
 1965-65 L6 200 CID BORE - 93.5mm/3.68""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1965-65	SB1750-2	1 ³ / ₄ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		1965-65	SB1437-2	1 ⁷ / ₁₆ O.D.,1 ⁷ / ₃₂ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int Exh	1965-65	01268	1.651 Head Diameter
		1965-65	01266	1.390 Head Diameter,+15 O/S Stem Available
Keeper	Both	1965-65	121-1011	1 SQ Bead Type
Stem Seal	Both	1965-65	122-1034	Umbrella Type,Poly Material,Umbrella Style
Guide	Both	1965-65	140-6869	0.3125 I.D.,1.875 Length,0.4390 O.D.,Plain I.D. Conversion Guide
		1965-65	140-6977	0.3120 I.D.,2.281 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1965-65	140-9869	0.3125 I.D.,1.875 Length,0.4390 O.D.,Spiral I.D. Conversion Guide
		1965-65	140-9977	0.3120 I.D.,2.281 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9977H), -5 U/S I.D. Available (140-9977U)
Spring	Both	1965-65	160-1131	1.828 Length,W/ Hydraulic Lifters
Lifter	Both	1965-65	VL9	Hydraulic Type
Push Rod	Both	1965-65	190-1327	8.350 Length,-54 U/S Available (190-1327U54),W/ Hyd. Lifters

31 200 C.I., (3.3L), OHV, GAS, CARB, 12 Valve, Vin T FOT200
 1973-74 L6 200 CID BORE - 93.5mm/3.68""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1973-74	SB1750-2	1 ³ / ₄ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

(Cont'd) FORD TRUCK / PASSENGER TRUCK**200 C.I., (3.3L), OHV, GAS, CARB, 12 Valve, Vin T**
1973-74 L6 200 CIDFOT200 **31**
BORE - 93.5mm/3.68" (cont.)

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1973-74	SB1437-2	1 ⁷ / ₁₆ O.D., 1 ¹ / ₃₂ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int 1973-74	01268	1.651 Head Diameter
	Exh 1973-74	01266	1.390 Head Diameter, +15 O/S Stem Available
Keeper	Both 1973-74	121-1011	1 SQ Bead Type
Stem Seal	Both 1973-74	122-1009	Positive Type, Tef/Rub Material, 1-Ring Style, Machine Guide To 0.500 O.D.
	1973-74	122-1034	Umbrella Type, Poly Material, Umbrella Style
Guide	Both 1973-74	140-9869	0.3125 I.D., 1.875 Length, 0.4390 O.D., Spiral I.D. Conversion Guide
	1973-74	140-9977	0.3120 I.D., 2.281 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9977H), -5 U/S I.D. Available (140-9977U)
Spring	Both 1973-74	160-1131	1.828 Length, W/ Hydraulic Lifters
Lifter	Both 1973-74	VL9	Hydraulic Type
Push Rod	Both 1973-74	190-1327	8.350 Length, -54 U/S Available (190-1327U54), W/ Hyd. Lifters

3275cc, (3.3L), SOHC, GAS, FI, 12 Valve, Vin T, ""VG33E Nissan""
1999-02 V6 200 CIDFOT-VG33E **32**
BORE - 91.5mm/3.60"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1999-02	SB1812-55	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., 0.2780 Depth
Valve	Int 1999-02	10281	1.657 Head Diameter
	Exh 1999-02	10282S	1.382 Head Diameter, Stellite Face
Keeper	Both 1999-02	121-1059	1 RD Bead Type
Stem Seal	Int 1999-02	122-1262	Positive Type, Viton Material, Metal Clad Style
	Exh 1999-02	122-1263	Positive Type, Viton Material, Ring & Spring Style
Guide	Int 1999-02	140-8388	0.2760 I.D., 2.315 Length, 0.4345 O.D., Std. O.D.
	Exh 1999-02	140-8389	0.3160 I.D., 2.500 Length, 0.4740 O.D., Std. O.D.
Spring	Both 1999-02	160-1216	2.065 Length, Outer
Rocker Components	Both 1999-02	180-1264	Cam Follower

204 C.I., (3.3L), DOHC, ELECTRIC/GAS, FLEX, GAS, FI, 24 Valve, Vin B, W, 99B, 99W, ""Duratec""
2018-21 V6 204 CIDFOT3.3BW **33**
BORE - 90.4mm/3.56"

PART	YEARS	PART NO.	NOTES
Valve	Int 2018-20	13225	1.457 Head Diameter
	Exh 2018-20	13226	1.220 Head Diameter
Keeper	Both 2018-20	121-1104	1 RD Bead Type
Stem Seal	Both 2018-20	122-1427	Positive Type, Viton Material, Top Hat Style

213 C.I., (3.5L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 8, C, ""Duratec""
2007-19 V6 213 CIDFOT3.5DC-24V **34**
BORE - 92.5mm/3.64"

PART	YEARS	PART NO.	NOTES
Valve	Int 2007-19	13225	1.457 Head Diameter
	Exh 2007-19	13226	1.220 Head Diameter
Keeper	Both 2007-19	121-1104	1 RD Bead Type
Stem Seal	Both 2007-19	122-1427	Positive Type, Viton Material, Top Hat Style
Guide	Both 2007-19	140-3170	0.2177 I.D., 1.395 Length, 0.4355 O.D., Chamfer I.D. to Combustion

FORD TRUCK / PASSENGER TRUCK (Cont'd)

34 213 C.I., (3.5L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 8, C, ""Duratec"" FOT3.5DC-24V
 (cont.) 2007-19 V6 213 CID BORE - 92.5mm/3.64""

PART	YEARS	PART NO.	NOTES
Spring	Both	2007-19 160-1599	1.858 Length,Conical

35 213 C.I., (3.5L), DOHC, GAS, FI, 24 Valve, Vin 4, G, T, ""Ecoboost TURBO"" FOT3.5DC-24VT
 2010-21 V6 213 CID BORE - 92.5mm/3.64""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2010-19	13344	1.457 Head Diameter,Note: Except 2017-20 Expedition, Explorer, F150
	Exh	2010-19	13345S	1.220 Head Diameter,Inconel, Stellite Face,Note: Except 2017-20 Expedition, Explorer, F150
Keeper	Both	2010-19 2017-20	121-1104 121-1082	1 RD Bead Type 3 RD Bead Type,Note: Expedition, Explorer, F150, Lobo ONLY
Stem Seal	Both	2010-19	122-1427	Positive Type,Viton Material,Top Hat Style
Guide	Both	2010-20	140-3170	0.2177 I.D.,1.395 Length,0.4355 O.D.,Chamfer I.D. to Combustion
Spring	Both	2010-19	160-1631	2.176 Length,Conical,Note: Except 2017-20 Expedition, Explorer, F150
Lifter	Both	2017-20	VL575	Hydraulic Lash Adjuster Type
Head Saver Shim		2010-21 2010-21	230-2207L 230-2207R	New Hgt.-4.8440"", Min. Hgt.-N/A; NOTE: Left Side New Hgt.-4.8440"", Min. Hgt.-N/A; NOTE: Right Side

36 223 C.I., (3.6L), OHV, GAS, CARB, 12 Valve, Vin A, J, V FOT223
 1954-64 L6 223 CID BORE - 92.1mm/3.63""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1954-64	SB1875-6	1 $\frac{7}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth
	Exh	1954-64	SB1625-1	1 $\frac{7}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1954-64	00373	1.780 Head Diameter
	Exh	1954-64	00375	1.510 Head Diameter
Keeper	Both	1954-64	121-1003	1 SQ Bead Type
Stem Seal	Both	1654-64 1954-64	122-1047 122-1041	Positive Type,Poly Material,2-Ring Style Umbrella Type,Poly Material,Umbrella Style
Guide	Both	1954-64	140-6105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1954-64	140-9105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9105U)
Spring	Both	1954-64	160-1120	2.222 Length,W/O Rotator
Lifter	Both	1954-64	VL21	Mechanical Type
Push Rod	Both	1954-64	190-1222	9.602 Length

37 227 C.I., (3.7L), DOHC, CNG, FLEX, GAS, LPG, FI, 24 Valve, Vin K, M, R, 99M, ""Duratec"" FOT3.7DC-24V
 2010-19 V6 227 CID BORE - 95.5mm/3.76""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2010-19	13225	1.457 Head Diameter,W/O CNG/LPG Prep
	Exh	2010-19	13226	1.220 Head Diameter
Keeper	Both	2010-19	121-1104	1 RD Bead Type
Stem Seal	Both	2010-19	122-1427	Positive Type,Viton Material,Top Hat Style

(Cont'd) FORD TRUCK / PASSENGER TRUCK

227 C.I., (3.7L), DOHC, CNG, FLEX, GAS, LPG, FI, 24 Valve, Vin K, M, R, 99M, ""Duratec""
 2010-19 V6 227 CID

37
 FOT3.7DC-24V (cont.)
 BORE - 95.5mm/3.76""

PART	YEARS	PART NO.	NOTES
Guide	Both 2010-19	140-3170	0.2177 I.D.,1.395 Length,0.4355 O.D.,Chamfer I.D. to Combustion
Spring	Both 2010-19	160-1599	1.858 Length,Conical

232 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 3
 1982-83 V6 232 CID

38
 FOT232CA
 BORE - 96.8mm/3.81""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1982-83 Exh 1982-83	SB1875-50 SB1625-54	1 $\frac{7}{8}$ O.D.,1.640 I.D.,0.2800 Depth 1 $\frac{5}{8}$ O.D.,1.329 I.D.,0.2800 Depth
Keeper	Both 1982-83	121-1019	4 RD Bead Type
Stem Seal	Both 1982-83	122-1074	Positive Type,Viton Material,Ring & Band Style
Guide	Both 1982-83 1982-83	140-5607 140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2) 0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Lifter	Both 1982-83	VL35	Hydraulic Type
Rocker Components	Both 1982-83 1982-83	180-1012 181-1018	Rocker Arm Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) 8mm Bolt
Push Rod	Both 1982-83	190-1522	7.770 Length,W/ Hyd. Lifters
Head Bolt Set	1982-83	220-1002	Torque To Yield,2 Required
Head Saver Shim	1982-83	230-2016	New Hgt.- 3.0550 - 3.0700; Min. Hgt.- 3.0450, 2 Required

232 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin 4
 1995-03 V6 232 CID

39
 FOT232FI
 BORE - 96.8mm/3.81""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1995-95 1996-03 Exh 1995-03	SB1875-50 SB1937-55 SB1625-54	1 $\frac{7}{8}$ O.D.,1.640 I.D.,0.2800 Depth 1 $\frac{15}{16}$ O.D.,1.640T I.D.,0.2900 Depth 1 $\frac{5}{8}$ O.D.,1.329 I.D.,0.2800 Depth
Valve	Int 1996-03 Exh 1996-03	01789 01791	1.861 Head Diameter,0.2750 Stem Dia. 1.461 Head Diameter,0.2740 Stem Dia.
Keeper	Both 1995-95 1996-03	121-1019 121-1084	4 RD Bead Type,W/ .341 Stem Dia. 3 RD Bead Type,W/ .274 Stem Dia.
Stem Seal	Int 1995-95 Exh 1995-95 Both 1996-98 1999-03	122-1215 122-1216 122-1226 122-1351	Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style,W/ .274 Stem Dia. Positive Type,Viton Material,Top Hat Style,W/ .274 Stem Dia.
Guide	Int 1996-03 Exh 1996-03 Both 1995-95 1995-95 1995-95	140-8575 140-8574 140-5607 140-8545 140-9607	0.2765 I.D.,2.050 Length,0.4955 O.D.,W/ .274 Stem Dia. 0.2765 I.D.,2.200 Length,0.4955 O.D.,W/ .274 Stem Dia. 0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2) 0.3440 I.D.,2.250 Length,0.4988 O.D.,Knock Out Style 0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Lifter	Both 1995-03	VL100	Hydraulic Roller Type
Rocker Components	Both 1995-03	180-1012	Rocker Arm

FORD TRUCK / PASSENGER TRUCK (Cont'd)

39 232 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin 4 FOT232FI
 (cont.) 1995-03 V6 232 CID BORE - 96.8mm/3.81"

PART	YEARS	PART NO.	NOTES
Rocker Components	Both	1995-03 181-1018	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) 8mm Bolt
Push Rod	Both	1995-03 190-1511	7.137 Length,W/ Roller Lifters
Head Bolt Set		1995-95 220-1004 1996-03 220-1076	Torque To Yield,2 Required Torque To Yield,2 Required
Head Saver Shim		1995-96 230-2016 1997-03 230-2155	New Hgt.- 3.0550 - 3.0700; Min. Hgt.- 3.0450, 2 Required, NOTE: Except 1996 Windstar New Hgt. N/A; Min. Hgt. N/A; 2 Required

40 238 C.I., (3.9L), OHV, GAS, FI, 12 Valve, Vin 6 FOT3.9
 2004-07 V6 238 CID BORE - 96.8mm/3.81"

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2004-07 01789 2004-07 01791	1.861 Head Diameter 1.461 Head Diameter
Keeper	Both	2004-07 121-1084	3 RD Bead Type
Stem Seal	Both	2004-07 122-1351	Positive Type,Viton Material,Top Hat Style
Guide	Both	2004-07 140-8574	0.2765 I.D.,2.200 Length,0.4955 O.D.
Lifter	Both	2004-07 VL100	Hydraulic Roller Type
Rocker Components	Both	2004-07 180-1012	Rocker Arm
Push Rod	Both	2004-07 190-1511	7.137 Length
Head Saver Shim	Both	2004-07 230-2124	2 Required

41 239 C.I., (3.9L), OHV, GAS, CARB, 16 Valve, ""L-HEAD"" FOT239L
 1949-53 V8 239 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1949-53 SB1625-1 1949-53 SB1640E-1	1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1.640 O.D.,1 ³ / ₈ I.D., ¹ / ₄ Depth
Valve	Both	1949-50 00212	1.510 Head Diameter
Keeper	Both	1949-53 121-1003	1 SQ Bead Type
Stem Seal	Both	1949-53 122-1376	O-Ring Type,Nitrile Material,Valve Guide Seal Style
Guide	Both	1949-53 140-1614 1949-53 149-1001	0.3435 I.D.,2.210 Length,1.0303 O.D. N/A I.D.,N/A Length,N/A O.D.,Valve Guide Retainer
Rotator	Both	1949-50 161-1057	

42 239 C.I., (3.9L), OHV, GAS, CARB, 16 Valve, Vin U FOT239
 1954-55 V8 239 CID BORE - 88.9mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1954-54 SB1625-1 1954-54 SB1640E-1	1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1.640 O.D.,1 ³ / ₈ I.D., ¹ / ₄ Depth
Valve	Int Exh	1954-55 00376 1954-55 00375	1.647 Head Diameter 1.510 Head Diameter
Keeper	Both	1954-55 121-1003	1 SQ Bead Type
Stem Seal	Both	1954-55 122-1014	Positive Type,Tef/Rub Material,1-Ring Style,Machine Guide To 0.562 O.D.

(Cont'd) FORD TRUCK / PASSENGER TRUCK**239 C.I., (3.9L), OHV, GAS, CARB, 16 Valve, Vin U**
1954-55 V8 239 CID**FOT239 42**
BORE - 88.9mm/3.50" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Int	1954-55	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
		1954-55	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
	Exh	1954-55	140-9604	0.3440 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Both	1954-55	140-5604	0.3440 I.D.,2.625 Length,0.5020 O.D.,Plain I.D. Conversion Guide,+2 O/S Available
Spring	Both	1954-55	160-1120	2.222 Length,W/O Rotator

240 C.I., (3.9L), OHV, GAS, CARB, 12 Valve, Vin 1, A, B, E, J, V
1965-74 L6 240 CID**FOT240 43**
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1965-74	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	1965-74	SB1687-1	1 ¹¹ / ₁₆ O.D.,1 ¹³ / ₃₂ I.D., ¹ / ₄ Depth,+10 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int	1965-74	00963	1.781 Head Diameter,Except H-Duty
		1965-74	01120	1.780 Head Diameter,H-Duty, +15 O/S Stem Available
	Exh	1965-74	01177S	1.560 Head Diameter,Stellite Face,Optional, +15 O/S Stem Available
		1965-74	01358	1.560 Head Diameter,+15 O/S Stem Available
Keeper	Both	1965-74	121-1003	1 SQ Bead Type
Stem Seal	Both	1965-74	122-1035	Umbrella Type,Poly Material,Umbrella Style
		1965-74	122-1047	Positive Type,Poly Material,2-Ring Style
Guide	Int	1965-74	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
	Exh	1965-74	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1965-74	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Exh	1965-74	160-1135	1.875 Length,W/ Rotator
	Both	1965-74	160-1134	1.990 Length,W/O Rotator
Lifter	Both	1965-74	VL35	Hydraulic Type
Rocker Components	Both	1965-74	180-1237	Rocker Arm, Cast
		1965-74	181-1040	Rocker Arm Kit, Includes (1) Cast R. Arm, (1) Smooth Ball, (1) ³ / ₈ Nut, (1) ⁵ / ₁₆ Nut
		1965-74	183-1020	Grooved Ball, ³ / ₈
		1965-74	183-1030	Smooth Ball, ³ / ₈
		1965-74	184-1022	+6 Oversize Stud, ⁵ / ₁₆
		1965-74	184-1038	Nut, ³ / ₈
		1965-74	184-1039	Nut, ⁵ / ₁₆
Push Rod	Both	1965-74	192-1322	10.136 Length,- 40 U/S (192-1322U40) Available
Head Saver Shim		1965-74	230-2017	

245 C.I., (4.0L), OHV, GAS, FI, 12 Valve, Vin X
1990-00 V6 245 CID**FOT245X 44**
BORE - 100.3mm/3.95"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1990-00	SB1812-4	1 ¹³ / ₁₆ O.D.,1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1990-00	SB1437-2	1 ⁷ / ₁₆ O.D.,1 ⁷ / ₃₂ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1990-00	10387	1.712 Head Diameter,+15 O/S Stem Available

FORD TRUCK / PASSENGER TRUCK (Cont'd)

44 245 C.I., (4.0L), OHV, GAS, FI, 12 Valve, Vin X FOT245X
 (cont.) 1990-00 V6 245 CID BORE - 100.3mm/3.95"

PART	YEARS	PART NO.	NOTES	
Valve	Exh	1990-00	10388	1.358 Head Diameter,+15 O/S Stem Available
Keeper	Int	1990-00	121-1011	1 SQ Bead Type
	Exh	1990-00	121-1083	3 RD Bead Type
Stem Seal	Both	1990-00	122-1067	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1990-00	140-7198	0.3175 I.D.,2.000 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1990-00	140-9198	0.3174 I.D.,2.000 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1990-00	160-1264	2.130 Length
Lifter	Both	1990-00	VL150	Hydraulic Roller Type
Rocker Components	Both	1990-00	180-1008	Rocker Arm
Push Rod	Both	1990-00	190-0471	5.475 Length
Head Bolt Set		1990-00	220-1016	Torque To Yield,Services Engine
Head Saver Shim		1990-00	230-2114L	Left,New Hgt. - 2.890" - 2.895" - Min. Hgt. - 2.880"
		1990-00	230-2114R	Right,New Hgt. - 2.890" - 2.895" - Min. Hgt. - 2.880"

45 245 C.I., (4.0L), SOHC, FLEX, GAS, FI, 12 Valve, Vin E, K FOT245E
 1997-11 V6 245 CID BORE - 100.3mm/3.95"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1997-11	SB1875-50	1 $\frac{7}{8}$ O.D.,1.640 I.D.,0.2800 Depth,Note: Seat May Need To Be Machined In Order To Achieve Correct Depth
	Exh	1997-11	SB1625-54	1 $\frac{5}{8}$ O.D.,1.329 I.D.,0.2800 Depth
Valve	Int	1997-11	01913	1.811 Head Diameter,Includes Flex-Fuel
	Exh	1997-11	01914	1.535 Head Diameter,Includes Flex-Fuel
Keeper	Both	1997-11	121-1084	3 RD Bead Type
Stem Seal	Both	1997-11	122-1348	Positive Type,Viton Material,Top Hat Style
Guide	Both	1997-11	140-8663	0.2761 I.D.,1.740 Length,0.4724 O.D.,W/ Snap Ring
Spring	Both	1997-11	160-1504	1.696 Length,NOTE: Aftermarket Version Using Non-Ovate Wire, Must Replace All Springs
Lifter	Both	1997-11	VL176	Hydraulic Lash Adjuster Type
Rocker Components	Both	1997-06	180-1341	Roller Cam Follower,NOTE: Early Without Oil Hole OEM # YL2Z-6564-AA
		2007-11	180-1325	Roller Cam Follower,NOTE: Late With Oil Hole OEM # 4G7Z-6564-AA
Head Bolt Set		1997-11	220-1106	Torque To Yield,Services Engine
Head Saver Shim		1997-11	230-2137L	Left,New Hgt. - 4.864" - Min. Hgt. - N/A
		1997-11	230-2137R	Right,New Hgt. - 4.864" - Min. Hgt. - N/A

46 255 C.I., (4.2L), OHV, GAS, CARB, 16 Valve, Vin D FOT255
 1981-82 V8 255 CID BORE - 93.5mm/3.68"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1981-82	SB1750-2	1 $\frac{3}{4}$ O.D.,1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1981-82	SB1562-1	1 $\frac{9}{16}$ O.D.,1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Exh	1981-82	01135	1.451 Head Diameter,Does Not Require Lash Cap, +3 & +15 O/S Stem Available.
		1981-82	01135S	1.451 Head Diameter,Stellite Face,LPG, Does Not Require Lash Cap

(Cont'd) FORD TRUCK / PASSENGER TRUCK**255 C.I., (4.2L), OHV, GAS, CARB, 16 Valve, Vin D**
1981-82 V8 255 CIDFOT255 **46**
BORE - 93.5mm/3.68" (cont.)

PART	YEARS	PART NO.	NOTES
Keeper	Both	1981-82 121-1003	1 SQ Bead Type
Stem Seal	Both	1981-82 122-1041 1981-82 122-1238	Umbrella Type, Poly Material, Umbrella Style Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ 1 ¹ / ₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Both	1981-82 140-5607 1981-82 140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2) 0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Int Exh	1981-82 160-1044 1981-82 160-1024	2.040 Length 1.923 Length
Lifter	Both	1981-82 VL35	Hydraulic Type
Rocker Components	Both	1981-82 180-1234 1981-82 181-1035 1981-82 183-1022 1981-82 184-1035 1981-82 184-1038	Rocker Arm, Stamped Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) 5/16 Bolt Fulcrum Bolt W/Washer, 5/16 Nut, 3/8
Push Rod	Both	1981-82 192-1409	6.876 Length, - 60 U/S (192-1409U60) Available

256 C.I., (4.2L), OHV, GAS, CARB, 16 Valve
1955-55 V8 256 CIDFOT256 **47**
BORE - 92.1mm/3.63"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1955-55 SB1812-3 1955-55 SB1630E-1	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., 7/32 Depth 1.630 O.D., 1.335 I.D., 0.3120 Depth, +5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int Exh	1955-55 00373 1955-55 00375	1.780 Head Diameter 1.510 Head Diameter
Keeper	Both	1955-55 121-1007	1 SQ Bead Type
Guide	Int Exh Both	1955-55 140-5606 1955-55 140-5607 1955-55 140-9606 1955-55 140-9604 1955-55 140-5604	0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U) 0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2) 0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9606U) 0.3440 I.D., 2.625 Length, 0.5020 O.D., Spiral I.D. Conversion Guide 0.3440 I.D., 2.625 Length, 0.5020 O.D., Plain I.D. Conversion Guide, +2 O/S Available
Spring	Both	1955-55 160-1120	2.222 Length, W/O Rotator
Lifter	Both	1955-55 VL21	Mechanical Type

256 C.I., (4.2L), OHV, GAS, FI, 12 Valve, Vin 2
1997-08 V6 256 CIDFOT256-2 **48**
BORE - 96.8mm/3.81"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1997-08 SB1562-67	1 ⁹ / ₁₆ O.D., 1.255 T I.D., 0.3190 Depth, Note: Seat May Need To Be Machined In Order To Achieve Correct Depth.
Valve	Int Exh	1997-08 01789 1997-08 01791	1.861 Head Diameter 1.461 Head Diameter
Keeper	Both	1997-08 121-1084	3 RD Bead Type
Stem Seal	Both	1997-98 122-1226 1999-08 122-1351	Positive Type, Viton Material, Metal Clad Style Positive Type, Viton Material, Top Hat Style

FORD TRUCK / PASSENGER TRUCK (Cont'd)

48 256 C.I., (4.2L), OHV, GAS, FI, 12 Valve, Vin 2
(cont.) 1997-08 V6 256 CID

FOT256-2
BORE - 96.8mm/3.81"

PART	YEARS	PART NO.	NOTES	
Guide	Int	1997-08	140-8575	0.2765 I.D.,2.050 Length,0.4955 O.D.
	Exh	1997-08	140-8574	0.2765 I.D.,2.200 Length,0.4955 O.D.
Lifter	Both	1997-08	VL100	Hydraulic Roller Type
Rocker Components	Both	1997-08	180-1012	Rocker Arm
		1997-08	181-1018	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) 8mm Bolt
Push Rod	Both	1997-08	190-1511	7.137 Length
Head Bolt Set		1997-08	220-1076	Torque To Yield,2 Required
Head Saver Shim		1997-08	230-2124	2 Required

49 262 C.I., (4.3L), OHV, GAS, CARB, 12 Valve, Vin B
1961-64 L6 262 CID

FOT262
BORE - 94.5mm/3.72"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1961-64	SB1812-3	1 ¹⁹ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	1961-64	SB1630E-1	1.630 O.D.,1.335 I.D.,0.3120 Depth,+5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material,Replaces OEM # C4TZ-6057A & D1TZ-6057A
Keeper	Both	1961-64	121-1007	1 SQ Bead Type
Guide	Int	1961-64	140-9964	0.3730 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9964H)
	Exh	1961-64	140-7298	0.3730 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1961-64	140-9298	0.3729 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1961-64	160-1120	2.222 Length,W/O Rotator
Lifter	Both	1961-64	VL21	Mechanical Type
Push Rod	Both	1961-64	190-1221	8.258 Length

50 272 C.I., (4.4L), OHV, GAS, CARB, 16 Valve, Vin B, M, U
1956-57 V8 272 CID

FOT272
BORE - 92.1mm/3.63"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1956-56	SB1812-3	1 ¹⁹ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth,W/ 1.780 Valve Head Dia.
		1957-57	SB2000-1	2.000 O.D.,1 ³ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material,W/ 1.925 Valve Head Dia.
	Exh	1956-57	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1956-56	00373	1.780 Head Diameter
		1957-57	00494	1.925 Head Diameter
	Exh	1956-57	00375	1.510 Head Diameter
Keeper	Both	1956-57	121-1003	1 SQ Bead Type
Stem Seal	Both	1956-57	122-1032	Umbrella Type,Poly Material,Umbrella Style
		1956-57	122-1047	Positive Type,Poly Material,2-Ring Style
Guide	Int	1956-57	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1956-57	140-9105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9105U)
	Exh	1956-57	140-6105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1956-57	140-6119	0.4375 I.D.,2.500 Length,0.6267 O.D.,Plain I.D. Conversion Guide,+2 O/S Available

(Cont'd) **FORD TRUCK / PASSENGER TRUCK**

272 C.I., (4.4L), OHV, GAS, CARB, 16 Valve, Vin B, M, U
1956-57 V8 272 CID

FOT272 50
BORE - 92.1mm/3.63" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Exh	1956-57	140-9119	0.4375 I.D.,2.500 Length,0.6265 O.D.,Spiral I.D. Conversion Guide
		1956-57	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1956-57	160-1120	2.222 Length,W/O Rotator
Lifter	Both	1956-57	VL21	Mechanical Type
Push Rod	Both	1956-57	190-1221	8.258 Length,NOTE: Must Verify Length
		1957-57	190-1543	8.122 Length

275 C.I., (4.5L), OHV, DIESEL, FI, 24 Valve, Vin Z, VT275, "Navistar MaxxForce 5 TURBO"

2006-10 V6 275 CID

FOT4.5-VT275 51
BORE - 95.0mm/3.7401" (cont.)

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2006-10	SB1375-2	1 $\frac{3}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{1}{4}$ Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	2006-10	SB1250-15N	1 $\frac{1}{4}$ O.D.,0.905 I.D., $\frac{1}{4}$ Depth,NOTE: Star Series Material W/ Smaller I.D.; NOTE: Seat May Need To Be Machined To Achieve Correct Depth
		2006-10	SB1250-3	1 $\frac{1}{4}$ O.D.,1.000 I.D., $\frac{1}{4}$ Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2006-10	02179	1.339 Head Diameter
	Exh	2006-10	02180	1.102 Head Diameter
Keeper	Both	2006-10	121-1105A	1 RD Bead Type
Stem Seal	Both	2006-10	122-1378	Positive Type,Viton Material,Top Hat Style
Guide	Both	2006-10	140-3055	0.2765 I.D.,2.331 Length,0.4395 O.D.
Spring	Both	2006-10	160-1458	2.076 Length
Lifter	Both	2006-10	VL114	Hydraulic Roller Type,OEM # 3C3Z6500AA
Push Rod	Both	2006-10	190-1548	9.795 Length,OEM # 8C3Z6565B; Note: Bronze Colored End MUST Install Towards Rocker Arm.
Head Saver Shim	2006-10	230-2148		New Hgt. 3.7380 - 3.7400: Min. Hgt. 3.7280: 2 Required
	2006-10	230-2196		New Hgt. 3.7380 - 3.7400: Min. Hgt. 3.7280: 2 Required; NOTE: W/20mm Dowel Pins
Injector Tubes and Components	2006-10	240-1034		Stainless Steel Material,Injector Tube,OEM # 3C3Z-9F538-AA, 1828320C1
	2006-10	240-1034GP		Stainless Steel Material,OEM # 3C3Z-12A379-AA; NOTE: Glow Plug Sleeve

281 C.I., (4.6L), SOHC, FLEX, GAS, FI, 16 Valve, Vin 6, W, "Triton"
1997-14 V8 281 CID

FOT281-SC16V 52
BORE - 90.2mm/3.55" (cont.)

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1997-14	SB1875-56	1 $\frac{7}{8}$ O.D.,1.600T I.D.,0.2520 Depth,Also Available In Non-Magnetic (N) Material
		1997-14	SB1875-56N	1 $\frac{7}{8}$ O.D.,1.600T I.D.,0.2520 Depth,CNG & LPG
		1997-99	SB1375-61	1 $\frac{3}{8}$ O.D.,1.130T I.D.,0.3040 Depth,Also Available In Non-Magnetic (N) Material,Exc. CNG & LPG
	Exh	1997-99	SB1375-61N	1 $\frac{3}{8}$ O.D.,1.130T I.D.,0.3040 Depth,CNG & LPG
		2000-14	SB1500-50	1 $\frac{1}{2}$ O.D.,1.203T I.D.,0.2800 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,Exc. CNG & LPG, Seat May Need To Be Machined To Achieve Correct Depth
			2000-14	SB1500-50N	1$\frac{1}{2}$ O.D.,1.203T I.D.,0.2800 Depth,CNG & LPG, Seat May Need To Be Machined To Achieve Correct Depth

FORD TRUCK / PASSENGER TRUCK (Cont'd)

52 281 C.I., (4.6L), SOHC, FLEX, GAS, FI, 16 Valve, Vin 6, W, ""Triton"" FOT281-SC16V
 (cont.) 1997-14 V8 281 CID BORE - 90.2mm/3.55""

PART	YEARS	PART NO.	NOTES	
Valve	Int	1997-99	01699	1.752 Head Diameter,4.607 Length, Exc. CNG & LPG
		1997-99	01699S	1.752 Head Diameter,Stellite Face,4.622 Length, CNG & LPG
		2000-14	01924	1.752 Head Diameter,4.752 Length, Exc. CNG & LPG
		2000-14	01924S	1.752 Head Diameter,Stellite Face,4.752 Length, CNG & LPG
	Exh	1997-99	01698	1.339 Head Diameter,4.607 Length, Exc. CNG & LPG
		1997-99	01698S	1.339 Head Diameter,Stellite Face,4.622 Length, CNG & LPG
		2000-14	01925	1.418 Head Diameter,4.681 Length, Exc. CNG & LPG
		2000-14	01925S	1.418 Head Diameter,Stellite Face,4.681 Length, CNG & LPG
Keeper	Both	1997-14	121-1084	3 RD Bead Type
Stem Seal	Both	1997-14	122-1449	Positive Type,Viton Material,Top Hat Style
Guide	Both	1997-14	140-8274	0.2765 I.D.,1.930 Length,0.4953 O.D.,+2, +3 O/S Available
Spring	Both	1997-99	160-1408	2.115 Length,Conical, Large End O.D. 1.040""
		2000-14	160-1411	2.101 Length,Conical, Large End O.D. 1.069"",NOTE:These springs are for castings that have slotted spring seats in order to accept the larger O.D. spring
Lifter	Both	1997-14	VL107	Hydraulic Lash Adjuster Type
Rocker Components	Both	1997-14	180-1284	Roller Cam Follower
Head Bolt Set		1997-14	220-1023	Torque To Yield,2 Required
		1997-14	220-1125	Torque To Yield,2 Required; Improved Design
Head Saver Shim		1997-14	230-2052L	Left,New Hgt.- 5.3100 - 5.3120; Min. Hgt.- 5.2980
		1997-14	230-2052R	Right,New Hgt.- 5.3100 - 5.3120; Min. Hgt.- 5.2980

53 281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin H, ""In-Tech"" FOT4.6-DC
 2003-05 V8 281 CID BORE - 90.2mm/3.55""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2003-05	SB1500-79	1½ O.D.,1.295 I.D.,0.2620 Depth
	Exh	2003-05	SB1250-61	1¼ O.D.,0.976 I.D.,0.1800 Depth
Valve	Int	2003-05	01709	1.456 Head Diameter
	Exh	2003-05	01708	1.181 Head Diameter
Keeper	Both	2003-05	121-1084	3 RD Bead Type
Stem Seal	Both	2003-05	122-1419	Positive Type,Viton Material,Top Hat Style
Guide	Both	2003-05	140-8274	0.2765 I.D.,1.930 Length,0.4953 O.D.,W/ Non Stepped O.D., +2, +3 O/S Available
Spring	Both	2003-05	160-1425	1.736 Length,Conical
Lifter	Both	2003-05	VL107	Hydraulic Lash Adjuster Type
Rocker Components	Both	2003-05	180-1284	Roller Cam Follower
Head Bolt Set		2003-05	220-1023	Torque To Yield,2 Required
		2003-05	220-1125	Torque To Yield
Head Saver Shim		2003-05	230-2052L	Left,New Hgt.- 5.3100 - 5.3120; Min. Hgt.- 5.2980
		2003-05	230-2052R	Right,New Hgt.- 5.3100 - 5.3120; Min. Hgt.- 5.2980

54 281 C.I., (4.6L), SOHC, GAS, FI, 24 Valve, Vin 8, ""Triton"" FOT281-SC24V
 2006-10 V8 281 CID BORE - 90.2mm/3.55""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2006-10	SB1375-50	1⅜ O.D.,1.109T I.D.,0.2550 Depth,Also Available In Non-Magnetic (N) Material,Except CNG
		2006-10	SB1375-50N	1⅜ O.D.,1.109T I.D.,0.2550 Depth,CNG
	Exh	2006-10	SB1500-73	1½ O.D.,1.230 I.D.,0.2780 Depth,Also Available In Non-Magnetic (N) Material,Except CNG
		2006-10	SB1500-73N	1½ O.D.,1.230 I.D.,0.2780 Depth,CNG

(Cont'd) FORD TRUCK / PASSENGER TRUCK**281 C.I., (4.6L), SOHC, GAS, FI, 24 Valve, Vin 8, ""Triton""**
2006-10 V8 281 CID**FOT281-SC24V 54**
BORE - 90.2mm/3.55"" (cont.)

PART		YEARS	PART NO.	NOTES
Valve	Int	2006-10	02118	1.331 Head Diameter,Includes "" Flex-Fuel "" , (Uses Two Intake Valves Per Cylinder)
		2006-10	02118S	1.331 Head Diameter,Stellite Face,CNG, (Uses Two Intake Valves Per Cylinder)
	Exh	2006-07	02265	1.476 Head Diameter,Unleaded Fuel ONLY
		2006-10	02119	1.479 Head Diameter,Inconel , "" Flex-Fuel ""
		2006-10	02119S	1.479 Head Diameter,Inconel, Stellite Face,CNG
Keeper	Both	2006-10	121-1082	3 RD Bead Type
Stem Seal	Both	2006-10	122-1356	Positive Type,Viton Material,Top Hat Style
Guide	Both	2006-10	140-3047	0.2371 I.D.,1.725 Length,0.4360 O.D.
Spring	Both	2006-10	160-1485	2.150 Length,Conical
Lifter	Both	2006-10	VL180	Hydraulic Lash Adjuster Type,W/ Undercut Groove On Boss
Rocker Components	Both	2006-10	180-1330	Cam Follower
Head Bolt Set		2006-10	220-1023	Torque To Yield,2 Required
		2006-10	220-1125	Torque To Yield,2 Required; Improved Design

289 C.I., (4.7L), OHV, GAS, CARB, 16 Valve, Vin A, C, N
1965-68 V8 289 CID**FOT289 55**
BORE - 101.6mm/4""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1965-68	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	1965-68	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1965-65	00947	1.781 Head Diameter,0.240 Tip To Groove
		1966-68	01001	1.780 Head Diameter,0.360 Tip To Groove, +15 O/S Stem Available
	Exh	1965-65	00742	1.450 Head Diameter,0.240 Tip To Groove
		1966-68	01000	1.451 Head Diameter,0.360 Tip To Groove, +15 O/S Stem Available
Keeper	Both	1965-68	121-1003	1 SQ Bead Type
Stem Seal	Both	1966-68	122-1038	Umbrella Type,Poly Material,Umbrella Style,To Change Level 10
Guide	Both	1965-68	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1965-68	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1966-68	160-1151	1.970 Length
Lifter	Both	1965-68	VL35	Hydraulic Type
Rocker Components	Both	1965-68	183-1030	Smooth Ball, ³ / ₈
		1966-68	180-1238	Rocker Arm, Cast, Rail Type
		1966-68	181-1041	Rocker Arm Kit, Includes (1) Cast Rail Type R. Arm, (1) Grooved Ball, (1) ³ / ₈ Nut, (1) ⁵ / ₁₆ Nut
	1966-68	183-1020	Grooved Ball, ³ / ₈	
	1966-68	184-1038	Nut, ³ / ₈	
Push Rod	Both	1965-68	192-1321	6.804 Length

FORD TRUCK / PASSENGER TRUCK (Cont'd)

56 292 C.I., (4.8L), OHV, GAS, CARB, 16 Valve, Vin C, D
1958-64 V8 292 CID

FOT292
BORE - 95.3mm/3.75"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1958-60	SB2000-1	2.000 O.D., 1 ³ / ₄ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.925 Valve Head Dia.
		1961-64	SB1750-3	1 ³ / ₄ O.D., 1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.647 Valve Head Dia.
	Exh	1958-64	SB1562-2	1 ¹ / ₁₆ O.D., 1 ⁵ / ₁₆ T I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1958-60	00494	1.925 Head Diameter
		1961-64	00376	1.647 Head Diameter
	Exh	1958-64	00375	1.510 Head Diameter
Keeper	Both	1958-64	121-1003	1 SQ Bead Type
Stem Seal	Both	1958-64	122-1074	Positive Type, Viton Material, Ring & Band Style
Guide	Int	1958-64	140-5606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1958-64	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1958-64	140-9606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
		1958-64	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1958-64	140-6105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1958-64	140-6119	0.4375 I.D., 2.500 Length, 0.6267 O.D., Plain I.D. Conversion Guide, +2 O/S Available
		1958-64	140-9105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Exc. H.D. Eng., -5 U/S I.D. Available (140-9105U)
		1958-64	140-9119	0.4375 I.D., 2.500 Length, 0.6265 O.D., Spiral I.D. Conversion Guide
Spring	Both	1958-64	160-1120	2.222 Length, W/O Rotator
Lifter	Both	1958-64	VL21	Mechanical Type
Push Rod	Both	1958-64	190-1221	8.258 Length

57 300 C.I., (4.9L), OHV, GAS, CARB, 12 Valve, Vin B, ""Heavy Duty""
1965-79 L6 300 CID

300HD
BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1965-79	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	1965-79	SB1687-1N	1 ¹¹ / ₁₆ O.D., 1 ¹³ / ₃₂ I.D., ¹ / ₄ Depth
Valve	Int	1965-79	01120	1.780 Head Diameter, +15 O/S Stem Available
	Exh	1965-79	01177S	1.560 Head Diameter, Stellite Face, 1971-74 All, 1975-79 E-F150/350, P350/500, B-F500, +15 O/S Stem Available
Keeper	Both	1965-79	121-1003	1 SQ Bead Type
Stem Seal	Int	1965-79	122-1047	Positive Type, Poly Material, 2-Ring Style, Optional
	Exh	1965-79	122-1075	Positive Type, Viton Material, Ring & Band Style, Optional
	Both	1965-76	122-1035	Umbrella Type, Poly Material, Umbrella Style, From Change L18
Guide	Int	1965-79	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
		1965-79	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
	Exh	1965-79	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Exh	1965-79	160-1135	1.875 Length, W/ Rotator
	Both	1965-79	160-1134	1.990 Length, W/O Rotator

(Cont'd) FORD TRUCK / PASSENGER TRUCK**300 C.I., (4.9L), OHV, GAS, CARB, 12 Valve, Vin B, ""Heavy Duty""**
1965-79 L6 300 CID**300HD 57****BORE - 101.6mm/4.00"" (cont.)**

PART	YEARS	PART NO.	NOTES	
Lifter	Both	1965-79 VL35	Hydraulic Type	
Rocker Components	Both	1965-79	180-1237	Rocker Arm, Cast
		1965-79	181-1040	Rocker Arm Kit, Includes (1) Cast R. Arm, (1) Smooth Ball, (1) 3/8 Nut, (1) 5/16 Nut
		1965-79	183-1020	Grooved Ball, 3/8
		1965-79	183-1030	Smooth Ball, 3/8
		1965-79	184-1038	Nut, 3/8
		1965-79	184-1039	Nut, 5/16
		1978-79	184-1022	+6 Oversize Stud, 5/16
Push Rod	Both	1965-79	192-1322	10.136 Length,- 40 U/S (192-1322U40) Available

300 C.I., (4.9L), OHV, GAS, CARB, 12 Valve, Vin B, E, Y, ""Light Duty""
1965-86 L6 300 CID**300LD-CA 58****BORE - 101.6mm/4.00""**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1965-86	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	1965-86	SB1687-1	1 ¹ / ₁₆ O.D.,1 ¹³ / ₃₂ I.D., ¹ / ₄ Depth,+10 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int	1965-70	00963	1.781 Head Diameter
		1971-86	01120	1.780 Head Diameter,4.810 Overall Length, 1971-74 All, 1985-86 E-F250/350 Over 8500 Lbs. GVW., +15 O/S Stem Available
		1985-86	01505	1.781 Head Diameter,4.750 Overall Length, U150, E-F150/350 Under 8500 Lbs. GVW, +15 O/S Stem Available
	Exh	1965-86	01358	1.560 Head Diameter,4.810 Overall Length, Exc. 1969-76, For 1977-86 Fits E-F100., +15 O/S Stem Available
		1971-82	01177S	1.560 Head Diameter,Stellite Face,+15 O/S Stem Available
		1985-86	01504	1.560 Head Diameter,4.750 Overall Length, W/ Flat Valve Head, U-150, E-F150/350 Under 8500 Lbs. GVW, +15 O/S Stem Available
Keeper	Both	1965-86	121-1003	1 SQ Bead Type
Stem Seal	Int	1965-86	122-1047	Positive Type,Poly Material,2-Ring Style,Optional
	Exh	1965-86	122-1075	Positive Type,Viton Material,Ring & Band Style,Optional
	Both	1965-86	122-1035	Umbrella Type,Poly Material,Umbrella Style
Guide	Int	1965-86	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
	Exh	1965-86	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1965-86	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Exh	1965-83	160-1135	1.875 Length,W/ Rotator
		1985-86	160-1203	1.785 Length,W/ Rotator
	Both	1965-83	160-1134	1.990 Length,W/O Rotator
Lifter	Both	1965-86	VL35	Hydraulic Type
Rocker Components	Both	1965-84	180-1237	Rocker Arm, Cast
		1965-84	181-1040	Rocker Arm Kit, Includes (1) Cast R. Arm, (1) Smooth Ball, (1) 3/8 Nut, (1) 5/16 Nut
		1965-84	183-1020	Grooved Ball, 3/8
		1965-84	183-1030	Smooth Ball, 3/8
		1965-84	184-1022	+6 Oversize Stud, 5/16
		1965-84	184-1038	Nut, 3/8
		1965-84	184-1039	Nut, 5/16
		1985-86	180-1029	Rocker Arm
		1985-86	183-1022	Fulcrum

FORD TRUCK / PASSENGER TRUCK (Cont'd)

58 300 C.I., (4.9L), OHV, GAS, CARB, 12 Valve, Vin B, E, Y, ""Light Duty"" 300LD-CA
(cont.) 1965-86 L6 300 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES
Rocker Components	Both	1985-86 184-1035	Bolt W/Washer, 5/16
Push Rod	Both	1965-86 192-1322	10.136 Length,- 40 U/S (192-1322U40) Available
Head Saver Shim		1965-86 230-2017	New Hgt. - 3.700; Min. Hgt. N/A

59 300 C.I., (4.9L), OHV, GAS, FI, 12 Valve, Vin Y, ""Light Duty"" 300LD-FI
1987-96 L6 300 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1987-96 SB1812-3 1987-96 SB1687-5	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth 1 ¹¹ / ₁₆ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int Exh	1987-96 01505 1987-96 01504	1.781 Head Diameter,E-F150/350 & Bronco, +15 O/S Stem Available 1.560 Head Diameter,W/ Flat Valve Head, E-F150/350, U150 & Bronco, +15 O/S Stem Available
Keeper	Both	1987-96 121-1003	1 SQ Bead Type
Stem Seal	Int Exh	02/91-96 122-1047 02/91-96 122-1075 1987-91 122-1196	Positive Type,Poly Material,2-Ring Style Positive Type,Viton Material, Ring & Band Style Positive Type,Nitrile Material,2-Ring Style
Guide	Int Exh	1987-96 140-9867 1987-96 140-5607 1987-96 140-9607	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U) 0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2) 0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1987-96 160-1203	1.785 Length,W/ Rotator
Lifter	Both	1987-96 VL35	Hydraulic Type
Rocker Components	Both	1987-96 180-1029 1987-96 183-1022 1987-96 184-1035	Rocker Arm Fulcrum Bolt W/Washer, 5/16
Push Rod	Both	1987-96 192-1322	10.136 Length,- 40 U/S (192-1322U40) Available
Head Saver Shim		1987-96 230-2017	New Hgt. - 3.700; Min. Hgt. N/A

60 300 C.I., (4.9L), OHV, BI-FUEL, FI, 12 Valve, Vin Z, ""LPG"" 300LP
1995-96 L6 300 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1994-96 SB1812-3 1994-96 SB1687-5N	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth 1 ¹¹ / ₁₆ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int Exh	1994-96 01792 1994-96 01504S	1.781 Head Diameter 1.560 Head Diameter,Stellite Face,W/ Flat Valve Head
Keeper	Both	1994-96 121-1003	1 SQ Bead Type
Stem Seal	Int Exh	1994-96 122-1047 1994-94 122-1196 1994-96 122-1075	Positive Type,Poly Material,2-Ring Style Positive Type,Nitrile Material,2-Ring Style Positive Type,Viton Material, Ring & Band Style
Guide	Int Exh	1994-96 140-9867 1994-96 140-9607	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U) 0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Exh	1994-96 160-1203	1.785 Length,W/ Rotator

(Cont'd) FORD TRUCK / PASSENGER TRUCK**300 C.I., (4.9L), OHV, BI-FUEL, FI, 12 Valve, Vin Z, ""LPG""**
1995-96 L6 300 CID**300LP 60**
BORE - 101.6mm/4.00"" (cont.)

PART	YEARS	PART NO.	NOTES	
Lifter	Both	1994-96 VL35	Hydraulic Type	
Rocker Components	Both	1994-96 1994-96 1994-96	180-1029 183-1022 184-1035	Rocker Arm Fulcrum Bolt W/Washer, 5/16
Push Rod	Both	1994-96	192-1322	10.136 Length,- 40 U/S (192-1322U40) Available

302 C.I., (5.0L), OHV, GAS, CARB, 16 Valve
1956-63 V8 302 CID**FOT302 61**
BORE - 92mm/3.60""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1956-63 1956-63	SB2125-1 SB1630E-1	2 1/8 O.D., 1 13/16 I.D., 1/4 Depth 1.630 O.D., 1.335 I.D., 0.3120 Depth, +5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material
Keeper	Int	1958-63	121-1007	1 SQ Bead Type
Guide	Int Exh	1956-57 1956-63 1956-63 1956-63	140-5606 140-6108 140-6119 140-9119	0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U) 0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U) 0.4375 I.D., 2.500 Length, 0.6267 O.D., Plain I.D. Conversion Guide, +2 O/S Available 0.4375 I.D., 2.500 Length, 0.6265 O.D., Spiral I.D. Conversion Guide
Spring	Both	1956-63	160-1120	2.222 Length, W/O Rotator
Push Rod	Both	1956-63	190-1222	9.602 Length

302 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, Vin B, F, G
1969-85 V8 302 CID**FOT5.0-BFG 62**
BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1969-85 1969-85 1969-85	SB1875-1 SB1562-1 SB1562-1N	1 7/8 O.D., 1 5/8 I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material 1 9/16 O.D., 1 5/16 I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1 9/16 O.D., 1 5/16 I.D., 7/32 Depth, LPG
Valve	Int Exh	1969-69 1969-78 1978-85 1969-69 1969-85 1969-85	01001 01137 01328 01000 01135 01135S	1.780 Head Diameter, 0.360 Tip To Groove, To Chg. L-4; 4.873 Overall Length., +15 O/S Stem Available 1.781 Head Diameter, 0.461 Tip To Groove, 5.050 Overall Length, From Chg. L-4 To S/N BEO,001; +15 O/S Stem Available 1.782 Head Diameter, 5.070 Overall Length .393 Tip To Groove, From S/N BEO,001; +3 & +15 O/S Stem Available 1.451 Head Diameter, To Chg L-4; 4.873 Overall Length., +15 O/S Stem Available 1.451 Head Diameter, From Chg. L-4; 5.070 Overall Length, Does Not Require A Lash Cap., +3 & +15 O/S Stem Available 1.451 Head Diameter, Stellite Face, LPG, Does Not Require Lash Cap; 5.070"" Overall Length
Keeper	Exh	1969-85	121-1003	1 SQ Bead Type
Stem Seal	Both	1969-85 1969-85 1969-85	122-1038 122-1075 122-1238	Umbrella Type, Poly Material, Umbrella Style Positive Type, Viton Material, Ring & Band Style Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ 1 1/2 Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	1969-85	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)

FORD TRUCK / PASSENGER TRUCK (Cont'd)

62 302 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, Vin B, F, G
(cont.) 1969-85 V8 302 CID

FOT5.0-BFG
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Guide	Both	1969-85	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1969-85	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Int	1980-85	160-1004	2.060 Length
	Exh	1980-85	160-1024	1.923 Length, W/ Rotator, W/ .185 Wire Dia.
	Both	1968-69	160-1151	1.970 Length
		1970-79	160-1041	1.965 Length
Lifter	Both	1969-85	VL35	Hydraulic Type
Rocker Components	Both	1969-69	184-1038	Nut, 3/8
		1969-78	180-1238	Rocker Arm, Cast, Rail Type
		1969-78	181-1041	Rocker Arm Kit, Includes (1) Cast Rail Type R. Arm, (1) Grooved Ball, (1) 3/8 Nut, (1) 5/16 Nut, To S/N BEO,001
		1969-78	183-1020	Grooved Ball, 3/8
		1969-78	183-1030	Smooth Ball, 3/8
		1969-78	184-1022	+6 Oversize Stud, 5/16
		1969-78	184-1039	Nut, 5/16
		1978-85	180-1234	Rocker Arm, Stamped
		1978-85	181-1035	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) 5/16 Bolt, From S/N BEO,001
		1978-85	183-1022	Fulcrum, From S/N BEO,001
1978-85	184-1035	Bolt W/Washer, 5/16, From S/N BEO,001		
Push Rod	Both	1969-85	192-1409	6.876 Length, - 60 U/S (192-1409U60) Available

63 302 C.I., (5.0L), OHV, GAS, FI, 16 Valve, Vin N, P
1986-01 V8 302 CID

FOT302-FI
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1986-01	SB1875-1	1 7/8 O.D., 1 5/8 I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material, Exc. 1996 Explorer
		1996-96	SB1937-23	1 5/16 O.D., 1 11/16 I.D., 3/16 Depth, Fits Explorer Only W/ 1.842 Valve Head Dia.
	Exh	1986-01	SB1562-1	1 9/16 O.D., 1 5/16 I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		1986-01	SB1562-1N	1 9/16 O.D., 1 5/16 I.D., 7/32 Depth, LPG
Valve	Int	1986-01	01328	1.782 Head Diameter, From S/N BEO,001, +3 & +15 O/S Stem Available
		1996-96	01701	1.842 Head Diameter, Explorer Only
	Exh	1986-01	01135	1.451 Head Diameter, From Chg. L-4, Does Not Require Lash Cap., +3 & +15 O/S Stem Available
		1986-01	01135S	1.451 Head Diameter, Stellite Face, LPG, Does Not Require Lash Cap; 5.070" Overall Length
		1996-96	01877	1.541 Head Diameter, Explorer Only
Keeper	Both	1986-01	121-1003	1 SQ Bead Type
Stem Seal	Int	1990-92	122-1200	Positive Type, Viton Material, Metal Clad Style, OEM Style
		1990-92	122-1199	Positive Type, Viton Material, Metal Clad Style, OEM Style
	Both	1986-01	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Optional, Use W/ 1 1/32 Std. Stem, Use 122-1238 +15 For Oversize Stems
		1986-90	122-1075	Positive Type, Viton Material, Ring & Band Style, W/ .550 O.D. Valve Guide
		1993-01	122-1249	Positive Type, Viton Material, Metal Clad Style

(Cont'd) FORD TRUCK / PASSENGER TRUCK**302 C.I., (5.0L), OHV, GAS, FI, 16 Valve, Vin N, P**
1986-01 V8 302 CIDFOT302-FI **63**
BORE - 101.6mm/4.000" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Int	1986-01	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
	Both	1986-01	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1986-01	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Int	1986-01	160-1004	2.060 Length
	Exh	1986-01	160-1024	1.923 Length,W/ Rotator
Lifter	Both	1986-91	VL35	Hydraulic Type
		1992-01	VL100	Hydraulic Roller Type
Rocker Components	Both	1986-01	180-1234	Rocker Arm, Stamped
		1986-01	181-1035	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) 5/16 Bolt
		1986-01	183-1022	Fulcrum
		1986-01	184-1035	Bolt W/Washer, 5/16
Push Rod	Both	1986-91	192-1409	6.876 Length, - 60 U/S (192-1409U60) Available,W/ Hyd. Lifters
		1992-01	190-1473	6.248 Length, - 57 U/S (190-1473U57) Available,W/ Roller Lifters
Head Bolt Set		1992-01	220-1033	Torque To Yield,2 Required

302 C.I., (5.0L), DOHC, FLEX, FI, 32 Valve, Vin 5, F, ""Coyote""
2011-21 V8 302 CIDFOT5.0DC-32V **64**
BORE - 92.2mm/3.6300"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2011-17	13294	1.457 Head Diameter
	Exh	2011-17	13295	1.220 Head Diameter
Keeper	Both	2011-20	121-1082	3 RD Bead Type
Stem Seal	Both	2011-17	122-1447	Positive Type,Viton Material,Top Hat Style
Guide	Both	2011-20	140-3166	0.2373 I.D.,1.715 Length,0.4395 O.D.
Spring	Both	2011-14	160-1617	2.075 Length,Conical
Lifter	Both	2011-20	VL575	Hydraulic Lash Adjuster Type
Rocker Components	Both	2011-17	180-1340	Roller Cam Follower

330 C.I., (5.4L), OHV, GAS, CARB, 16 Valve, ""Medium Duty""
1964-77 V8 330 CIDFOT330MD **65**
BORE - 90.2mm/3.5500"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1964-77	SB1815E-1	1.815 O.D.,1.595 I.D.,1/4 Depth,OEM # C8TZ-6057A
		1964-77	SB1875-2	17/8 O.D.,1 1/16 I.D.,1/4 Depth,Optional, Use W/ 17/8 Cutter
	Exh	1964-77	SB1630E-1	1.630 O.D.,1.335 I.D.,0.3120 Depth,+5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material,OEM # C4TZ-6057A & D1TZ-6057A
		1964-77	SB1687-4	1 11/16 O.D.,1 11/32 I.D.,5/16 Depth,Also Available In Non-Magnetic (N) Material,Optional, Use W/ 1 11/16 Cutter
Valve	Int	1964-77	00949	1.753 Head Diameter
	Exh	1964-77	01332	1.508 Head Diameter,+15 O/S Stem Available
Keeper	Both	1964-77	121-1007	1 SQ Bead Type
Stem Seal	Both	1964-77	122-1031	Positive Type,Poly Material,2-Ring Style
		1964-77	122-1033	Umbrella Type,Poly Material,Umbrella Style
Guide	Int	1964-77	140-6109	0.3740 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide

FORD TRUCK / PASSENGER TRUCK (Cont'd)

65 330 C.I., (5.4L), OHV, GAS, CARB, 16 Valve, ""Medium Duty""

FOT330MD

(cont.) 1964-77

V8 330 CID

BORE - 90.2mm/3.55""

PART		YEARS	PART NO.	NOTES
Guide	Int	1964-77	140-9109	0.3740 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	1964-77	140-7298	0.3730 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1964-77	140-9298	0.3729 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Int	1977-77	160-1175	2.120 Length,W/ Damper
	Both	1964-77	160-1006	1.960 Length,Exc. 1977 Int
Lifter	Both	1964-77	VL9	Hydraulic Type
Rocker Components	Both	1964-77	180-1059	Rocker Arm, Cast
		1964-77	186-1090	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	1964-72	190-1351	9.620 Length,+60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available
		1972-77	190-1426	9.590 Length,+60 O/S (190-1426+60) Available ,W/ Hyd. Lifters

66 330 C.I., (5.4L), OHV, GAS, CARB, 16 Valve, ""Heavy Duty""

FOT330HD

1964-79

V8 330 CID

BORE - 98.425mm/3.80""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1964-79	SB1815E-1	1.815 O.D.,1.595 I.D.,¼ Depth,W/ 1.753 Valve Head Dia.
		1964-79	SB1875-2	1 7/8 O.D.,1 1/16 I.D.,¼ Depth,Optional, Use W/ 1 7/8 Cutter
	Exh	1964-79	SB1630E-1N	1.630 O.D.,1.335 I.D.,0.3120 Depth,W/ 1.506 Valve Head Dia.
		1964-79	SB1687-4N	1 11/16 O.D.,1 11/32 I.D.,5/16 Depth,Optional, Use W/ 1 11/16 Cutter
Valve	Int	1964-77	01057S	1.753 Head Diameter,Stellite Face,To S/N 025,001, +15 O/S Stem Available
	Exh	1964-79	00917SN	1.506 Head Diameter,Stellite Face, Sodium Filled,+15 O/S Stem Available
Keeper	Both	1964-79	121-1007	1 SQ Bead Type
Stem Seal	Both	1964-79	122-1036	Umbrella Type,Poly Material,Umbrella Style
Guide	Int	1964-79	140-6109	0.3740 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1964-79	140-9109	0.3740 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	1964-79	140-6119	0.4375 I.D.,2.500 Length,0.6267 O.D.,Plain I.D. Conversion Guide,+2 O/S Available
		1964-79	140-9119	0.4375 I.D.,2.500 Length,0.6265 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1964-79	160-1006	1.960 Length
Lifter	Both	1964-79	VL9	Hydraulic Type
Rocker Components	Both	1964-79	180-1059	Rocker Arm, Cast
		1964-79	186-1090	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	1964-72	190-1351	9.620 Length,+60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available
		1972-79	190-1426	9.590 Length,+60 O/S (190-1426+60) Available ,W/ Hyd. Lifters (Std. Length) W/ Ball Tips

67 330 C.I., (5.4L), SOHC, BI-FUEL, CNG, FLEX, GAS, LPG, FI, 16 Valve, Vin L, M, Z, ""Triton""

FOT5.4-SC16V

1997-16

V8 330 CID

BORE - 90.2mm/3.55""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1997-16	SB1875-56	1 7/8 O.D.,1.600T I.D.,0.2520 Depth,Also Available In Non-Magnetic (N) Material

(Cont'd) FORD TRUCK / PASSENGER TRUCK

**330 C.I., (5.4L), SOHC, BI-FUEL, CNG, FLEX, GAS, LPG, FI, 16 Valve, Vin
L, M, Z, ""Triton""**
1997-16 V8 330 CID

67
FOT5.4-SC16V (cont.)
BORE - 90.2mm/3.55""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1997-16	SB1875-56N	1 $\frac{7}{8}$ O.D., 1.600T I.D., 0.2520 Depth, CNG & LPG
	Exh	1997-99	SB1375-61	1 $\frac{3}{8}$ O.D., 1.130T I.D., 0.3040 Depth, Also Available In Non-Magnetic (N) Material, Exc. CNG & LPG
		1997-99 2000-16	SB1375-61N SB1500-50	1 $\frac{3}{8}$ O.D., 1.130T I.D., 0.3040 Depth, CNG & LPG 1 $\frac{1}{2}$ O.D., 1.203T I.D., 0.2800 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, Exc. CNG & LPG, Seat May Need To Be Machined To Achieve Correct Depth
		2000-16	SB1500-50N	1 $\frac{1}{2}$ O.D., 1.203T I.D., 0.2800 Depth, CNG & LPG, Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	1997-99	01699	1.752 Head Diameter, 4.607 Length, Exc. CNG & LPG
		1997-99	01699S	1.752 Head Diameter, Stellite Face, 4.622 Length, CNG & LPG
		2000-16	01924	1.752 Head Diameter, 4.752 Length, Exc. CNG & LPG
	Exh	2000-16	01924S	1.752 Head Diameter, Stellite Face, 4.752 Length, CNG & LPG
		1997-99	01698	1.339 Head Diameter, 4.607 Length, Exc. CNG & LPG
		1997-99	01698S	1.339 Head Diameter, Stellite Face, 4.622 Length, CNG & LPG
	2000-16	01925	1.418 Head Diameter, 4.681 Length, Exc. CNG & LPG	
	2000-16	01925S	1.418 Head Diameter, Stellite Face, 4.681 Length, CNG & LPG	
Keeper	Both	1997-16	121-1084	3 RD Bead Type
Stem Seal	Both	1997-16	122-1449	Positive Type, Viton Material, Top Hat Style
Guide	Both	1997-16	140-8274	0.2765 I.D., 1.930 Length, 0.4953 O.D., +2, +3 O/S Available
		1997-16	140-8274H	0.2765 I.D., 1.930 Length, 0.4953 O.D., CNG & LPG
Spring	Both	1997-99	160-1408	2.115 Length, Conical, Large End O.D. 1.040""
		2000-16	160-1411	2.101 Length, Conical, Large End O.D. 1.069"", NOTE: These springs are for castings that have slotted spring seats in order to accept the larger O.D. spring
Lifter	Both	1997-16	VL107	Hydraulic Lash Adjuster Type
Rocker Components	Both	1997-16	180-1284	Roller Cam Follower
Head Bolt Set		1997-16	220-1023	Torque To Yield, 2 Required
		1997-16	220-1125	Torque To Yield, 2 Required; Improved Design
Head Saver Shim		1997-16	230-2052L	Left, New Hgt. - 5.3100 - 5.3120; Min. Hgt. - 5.2980
		1997-16	230-2052R	Right, New Hgt. - 5.3100 - 5.3120; Min. Hgt. - 5.2980

330 C.I., (5.4L), SOHC, GAS, FI, 16 Valve, Vin 3, ""Triton Supercharged""
1999-04 V8 330 CID

68
FOT5.4-LIT
BORE - 90.2mm/3.55""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1999-04	SB1875-56	1 $\frac{7}{8}$ O.D., 1.600T I.D., 0.2520 Depth, Also Available In Non-Magnetic (N) Material
	Exh	1999-01	SB1375-61	1 $\frac{3}{8}$ O.D., 1.130T I.D., 0.3040 Depth, Also Available In Non-Magnetic (N) Material
		2002-04	SB1500-50	1 $\frac{1}{2}$ O.D., 1.203T I.D., 0.2800 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	1999-01	01699	1.752 Head Diameter, 4.607 Overall Length
		2002-04	01924	1.752 Head Diameter, 4.752 Overall Length
	Exh	1999-01	01698	1.339 Head Diameter, 4.607 Overall Length
		2002-04	01925	1.418 Head Diameter, 4.681 Overall Length
Keeper	Both	1999-04	121-1084	3 RD Bead Type
Stem Seal	Both	1999-04	122-1449	Positive Type, Viton Material, Top Hat Style
Guide	Both	1999-04	140-8274	0.2765 I.D., 1.930 Length, 0.4953 O.D., +2, +3 O/S Available
Spring	Both	1999-04	160-1411	2.101 Length, Conical, Large End O.D. 1.069""

FORD TRUCK / PASSENGER TRUCK (Cont'd)

68 330 C.I., (5.4L), SOHC, GAS, FI, 16 Valve, Vin 3, ""Triton Supercharged"" FOT5.4-LIT
(cont.) 1999-04 V8 330 CID BORE - 90.2mm/3.55""

PART	YEARS	PART NO.	NOTES
Lifter	Both	1999-04 VL107	Hydraulic Lash Adjuster Type
Rocker Components	Both	1999-04 180-1284	Roller Cam Follower
Head Bolt Set		1999-04 220-1023 1999-04 220-1125	Torque To Yield,2 Required Torque To Yield,2 Required; Improved Design
Head Saver Shim		1999-04 230-2052L 1999-04 230-2052R	Left,New Hgt. - 5.3100 - 5.3120; Min. Hgt. - 5.2980 Right,New Hgt. - 5.3100 - 5.3120; Min. Hgt. - 5.2980

69 330 C.I., (5.4L), DOHC, GAS, FI, 32 Valve, Vin A, R, ""InTech"" FOT5.4-DC32V
1999-04 V8 330 CID BORE - 90.2mm/3.55""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1999-04 1999-04	SB1500-79 SB1250-61	1½ O.D.,1.295 I.D.,0.2620 Depth 1¼ O.D.,0.976 I.D.,0.1800 Depth
Valve	Int Exh	1999-04 1999-04	01709 01708	1.456 Head Diameter 1.181 Head Diameter
Keeper	Both	1999-04	121-1084	3 RD Bead Type
Stem Seal	Both	1999-04	122-1419	Positive Type,Viton Material,Top Hat Style
Guide	Both	1999-04	140-8274	0.2765 I.D.,1.930 Length,0.4953 O.D.,W/ Non Stepped O.D., +2, +3 O/S Available
Spring	Both	1999-04	160-1425	1.736 Length,Conical
Lifter	Both	1999-04	VL107	Hydraulic Lash Adjuster Type
Rocker Components	Both	1999-04	180-1284	Roller Cam Follower
Head Bolt Set		1999-04 1999-04	220-1023 220-1125	Torque To Yield,2 Required Torque To Yield,2 Required; Improved Design
Head Saver Shim		1999-04 1999-04	230-2052L 230-2052R	Left,New Hgt. - 5.3100 - 5.3120; Min. Hgt. - 5.2980 Right,New Hgt. - 5.3100 - 5.3120; Min. Hgt. - 5.2980

70 330 C.I., (5.4L), SOHC, FLEX, GAS, FI, 24 Valve, Vin 5, V, ""Triton"" FOT5.4SC-24V
2004-14 V8 330 CID BORE - 90.2mm/3.55""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	2004-14 2004-14 2004-14 2004-14	SB1375-50 SB1375-50N SB1500-73 SB1500-73N	1⅝ O.D.,1.109T I.D.,0.2550 Depth,Also Available In Non-Magnetic (N) Material,Except CNG 1⅝ O.D.,1.109T I.D.,0.2550 Depth,CNG 1½ O.D.,1.230 I.D.,0.2780 Depth,Also Available In Non-Magnetic (N) Material,Except CNG 1½ O.D.,1.230 I.D.,0.2780 Depth,CNG
Valve	Int Exh	2004-14 2004-14 2004-14 2004-14 2004-14	02118 02118S 02119 02119S 02265	1.331 Head Diameter,All Models, Includes "" Flex-Fuel ""(Uses Two Intake Valves per Cylinder) 1.331 Head Diameter,Stellite Face,CNG, (Uses Two Intake Valves Per Cylinder) 1.479 Head Diameter,Inconel ,All Models Including ""Flex Fuel"" , Except F150 Unleaded Fuel 1.479 Head Diameter,Inconel, Stellite Face,CNG 1.476 Head Diameter,F150, Unleaded Fuel ONLY
Keeper	Both	2004-14	121-1082	3 RD Bead Type
Stem Seal	Both	2004-14	122-1356	Positive Type,Viton Material,Top Hat Style
Guide	Both	2004-14	140-3047	0.2371 I.D.,1.725 Length,0.4360 O.D.
Spring	Both	2004-14	160-1485	2.150 Length,Conical
Lifter	Both	8/5/2014 8/5/2004	VL180 VL178	Hydraulic Lash Adjuster Type,W/ Undercut Groove On Boss,After 8/8/05 Hydraulic Lash Adjuster Type,To 8/8/05

(Cont'd) FORD TRUCK / PASSENGER TRUCK

330 C.I., (5.4L), SOHC, FLEX, GAS, FI, 24 Valve, Vin 5, V, ""Triton"" FOT5.4SC-24V **70**
 2004-14 V8 330 CID BORE - 90.2mm/3.55"" (cont.)

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	2004-14	180-1330	Cam Follower
Head Bolt Set	2004-14	220-1023	Torque To Yield,2 Required	
	2004-14	220-1125	Torque To Yield,2 Required; Improved Design	

332 C.I., (5.4L), OHV, GAS, CARB, 16 Valve FOT332 **71**
 1960-63 V8 332 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1960-63	SB2125-1	2 $\frac{1}{8}$ O.D.,1 $\frac{13}{16}$ I.D., $\frac{1}{4}$ Depth 1.630 O.D.,1.335 I.D.,0.3120 Depth,+5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh	1960-63	SB1630E-1	
Guide	Int	1960-63	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
		1960-63	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1960-63	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
	Exh	1960-63	140-6119	0.4375 I.D.,2.500 Length,0.6267 O.D.,Plain I.D. Conversion Guide,+2 O/S Available
		1960-63	140-9119	0.4375 I.D.,2.500 Length,0.6265 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1960-63	160-1120	2.222 Length,W/O Rotator
Push Rod	Both	1960-63	190-1222	9.602 Length

351 C.I., (5.8L), OHV, GAS, CARB, 16 Valve, Vin G, H, ""Modified"" FOT351M **72**
 1977-81 V8 351 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1977-81	SB2125-2	2 $\frac{1}{8}$ O.D.,1 $\frac{7}{8}$ I.D., $\frac{1}{4}$ Depth 1 $\frac{3}{4}$ O.D.,1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1977-81	SB1750-2	
Valve	Int	1977-77	01170	2.041 Head Diameter,4 Groove,+15 O/S Stem Available, To S/N CGO,001
		1978-81	01380	2.041 Head Diameter,1 Groove,From S/N CGO,001, +15 O/S Stem Available
	Exh	1977-77	01169	1.655 Head Diameter,4 Groove,0.3415 Stem Dia., +15 O/S Stem Available
		1978-81	01367	1.655 Head Diameter,1 Groove,0.3414 Stem Dia., +15 O/S Stem Available
Keeper	Both	1977-77	121-1019	4 RD Bead Type
		1978-81	121-1003	1 SQ Bead Type
Stem Seal	Both	1977-81	122-1038	Umbrella Type,Poly Material,Umbrella Style
		1977-81	122-1047	Positive Type,Poly Material,2-Ring Style
Guide	Both	1977-81	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
		1977-81	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
Spring	Exh	1978-81	160-1041	1.965 Length
	Both	1977-81	160-1161	2.068 Length,Exc. 1978-81 Exh
Lifter	Both	1977-81	VL35	Hydraulic Type
Rocker Components	Both	1977-81	180-1233	Rocker Arm, Stamped
		1977-81	181-1034	Rocker Arm Kit, Includes (1) Stamped R. Arm, (1) Fulcrum, (1) $\frac{5}{16}$ Bolt
		1977-81	183-1022	Fulcrum

FORD TRUCK / PASSENGER TRUCK (Cont'd)

72 351 C.I., (5.8L), OHV, GAS, CARB, 16 Valve, Vin G, H, ""Modified"" FOT351M
 (cont.) 1977-81 V8 351 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES
Rocker Components	Both	1977-81 184-1034	Bolt, 5/16
Push Rod	Both	1977-81 190-1417	9.500 Length,+60 O/S (190-1417+60) & - 60 U/S (190-1417U60) Available,Exc. Boss Special

73 351 C.I., (5.8L), OHV, GAS, CARB, FI, 16 Valve, Vin G, H, Q, ""Windsor"" FOT351W-1
 1974-88 V8 351 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1975-87 1975-85 1975-87	SB1875-6 SB1562-1 SB1562-1N	1 7/8 O.D., 1 5/8 I.D., 7/32 Depth 1 1/16 O.D., 1 5/16 I.D., 7/32 Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1 1/16 O.D., 1 5/16 I.D., 7/32 Depth,LPG
Valve	Int Exh	1975-88 1975-78 1975-85 1978-88	01328 01327 01135S 01135	1.782 Head Diameter,+3 & +15 O/S Stem Available 1.461 Head Diameter,W/ Cast Iron Rocker Arms, To S/N BAO,001, W/O Rotators. 1.451 Head Diameter,Stellite Face,LPG, Does Not Require Lash Cap 1.451 Head Diameter,1978-79 W/ Steel Rocker Arms, From S/N BAO,001, 1980-87 All, Does Not Require Lash Cap., +3 & +15 O/S Stem Available
Keeper	Both	1975-88	121-1003	1 SQ Bead Type
Stem Seal	Both	1975-87 1975-88 1978-87	122-1038 122-1047 122-1238	Umbrella Type,Poly Material,Umbrella Style Positive Type,Poly Material,2-Ring Style Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 1/32 Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Both	1975-87 1975-87	140-5607 140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2) 0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Int Exh	1975-87 1975-87	160-1044 160-1024	2.040 Length 1.923 Length
Lifter	Both	1975-87	VL35	Hydraulic Type
Rocker Components	Both	1975-78 1975-78 1975-78 1975-87 1975-87 1975-87 1975-87 1978-87 1978-87 1978-87	180-1238 181-1041 183-1020 183-1030 184-1022 184-1035 184-1039 180-1234 181-1035 183-1022	Rocker Arm, Cast, Rail Type Rocker Arm Kit, Includes (1) Cast Rail Type R. Arm, (1) Grooved Ball, (1) 3/8 Nut, (1) 5/16 Nut Grooved Ball, 3/8,W/ Cast Rocker Arms, 3/8 & 5/16 Nuts Smooth Ball, 3/8,W/ Cast Rocker Arms, 3/8 & 5/16 Nuts +6 Oversize Stud, 5/16 Bolt W/Washer, 5/16 Nut, 5/16 Rocker Arm, Stamped Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) 5/16 Bolt Fulcrum
Push Rod	Both	1975-78 1978-87	192-1399 190-1443	8.152 Length,W/ Cast Iron Rocker Arms 8.182 Length,W/ Stamped Rocker Arms

74 351 C.I., (5.8L), OHV, GAS, FI, 16 Valve, Vin H, R ""Windsor"" FOT351W-2
 1988-97 V8 351 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-97	SB1875-6	1 7/8 O.D., 1 5/8 I.D., 7/32 Depth

(Cont'd) FORD TRUCK / PASSENGER TRUCK**351 C.I., (5.8L), OHV, GAS, FI, 16 Valve, Vin H, R ""Windsor""**
1988-97 V8 351 CID**FOT351W-2 74**
BORE - 101.6mm/4.00"" (cont.)

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1988-97	SB1562-1	1 ¹ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1988-97	01328	1.782 Head Diameter, +3 & +15 O/S Stem Available
	Exh	1988-97	01135	1.451 Head Diameter, Does Not Require Lash Cap, +3 & +15 O/S Stem Available.
Keeper	Both	1988-97	121-1003	1 SQ Bead Type
Stem Seal	Both	1988-89	122-1038	Umbrella Type, Poly Material, Umbrella Style Positive Type, Poly Material, 2-Ring Style Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		1988-89	122-1047	
		1988-97	122-1238	
Guide	Both	1988-97	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2) 0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
		1988-97	140-9607	
Spring	Int	1988-97	160-1071	2.028 Length
	Exh	1988-97	160-1054	1.900 Length
Lifter	Both	1988-96 1994-97	VL35 VL100	Hydraulic Type, Incl. 1993-96 Lightning Hydraulic Roller Type, Exc. 1993-96 Lightning
Rocker Components	Both	1988-91	183-1030	Smooth Ball, ³ / ₈ Rocker Arm, Stamped Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) ⁵ / ₁₆ Bolt Fulcrum Bolt W/Washer, ⁵ / ₁₆
		1988-94	180-1234	
		1988-94	181-1035	
		1988-94	183-1022	
		1988-95	184-1035	
Push Rod	Both	1988-93	190-1443	8.182 Length, W/ Stamped Rocker Arms 7.520 Length
		1994-97	190-1536	

351 C.I., (5.8L), OHV, GAS, FI, 16 Valve, Vin R, ""Lightning""
1993-95 V8 351 CID**FOT351-HP 75**
BORE - 101.6mm/4.00""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1993-95	SB1937-23	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	1993-95	SB1625-33	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., ³ / ₁₆ Depth
Valve	Int	1993-95	01701	1.842 Head Diameter
	Exh	1993-95	01877	1.541 Head Diameter
Keeper	Both	1993-95	121-1003	1 SQ Bead Type
Stem Seal	Int	1993-95	122-1075	Positive Type, Viton Material, Ring & Band Style Positive Type, Nitrile Material, 2-Ring Style
	Exh	1993-95	122-1196	
Guide	Both	1993-95	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2) 0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
		1993-95	140-9607	
Lifter	Both	1993-95	VL35	Hydraulic Type
Push Rod	Both	1993-93	190-1443	8.182 Length, W/ Stamped Rocker Arms 7.520 Length
		1994-95	190-1536	

352 C.I., (5.8L), OHV, GAS, CARB, 16 Valve, Vin D
1965-67 V8 352 CID**FOT352 76**
BORE - 101.6mm/4.00""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1965-67	SB2062-1	2 ¹ / ₁₆ O.D., 1 ¹³ / ₁₆ I.D., ¹ / ₄ Depth

FORD TRUCK / PASSENGER TRUCK (Cont'd)

76 352 C.I., (5.8L), OHV, GAS, CARB, 16 Valve, Vin D FOT352
 (cont.) 1965-67 V8 352 CID BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1965-67	SB1687-1	1 ¹¹ / ₁₆ O.D., 1 ¹³ / ₃₂ I.D., 1/4 Depth, +10 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int	1965-67	00637	2.027 Head Diameter, +15 O/S Stem Available
	Exh	1965-67	01242	1.559 Head Diameter, +15 O/S Stem Available
Keeper	Both	1965-67	121-1007	1 SQ Bead Type
Stem Seal	Both	1965-67	122-1011	Positive Type, Tef/Rub Material, 1-Ring Style, Machine Guide To 0.500 O.D.
		1965-67	122-1033	Umbrella Type, Poly Material, Umbrella Style
Guide	Int	1965-67	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1965-67	140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
	Exh	1965-67	140-7298	0.3730 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1965-67	140-9298	0.3729 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1965-67	160-1124	2.260 Length, W/ Damper
Lifter	Both	1965-67	VL9	Hydraulic Type
Rocker Components	Both	1965-67	180-1059	Rocker Arm, Cast
		1965-67	186-1090	Rocker Arm Shaft, 2 Required W/ Hydraulic Lifter
Push Rod	Both	1965-65	190-1426	9.590 Length, +60 O/S (190-1426+60) Available ,W/ Hyd. Lifters (Std. Length) W/ Ball Tips, To 12/65
		1966-67	190-1351	9.620 Length, +60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available, W/ Mechanical Lifters, From 1/66

77 359 C.I., (5.9L), OHV, GAS, CARB, 16 Valve, Vin K, ""Medium Duty"" FOT359
 1974-78 V8 359 CID BORE - 102.87mm/4.05"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1974-78	SB1815E-1	1.815 O.D., 1.595 I.D., 1/4 Depth, OEM # C8TZ-6057A
		1974-78	SB1875-2	1 ⁷ / ₈ O.D., 1 ⁹ / ₁₆ I.D., 1/4 Depth, Optional, Use W/ 1 ⁷ / ₈ Cutter
	Exh	1974-78	SB1630E-1	1.630 O.D., 1.335 I.D., 0.3120 Depth, +5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material, OEM # C4TZ-6057A & D1TZ-6057A
		1974-78	SB1687-4	1 ¹¹ / ₁₆ O.D., 1 ¹¹ / ₃₂ I.D., 5/16 Depth, Also Available In Non-Magnetic (N) Material, Optional, Use W/ 1 ¹¹ / ₁₆ Cutter
Valve	Int	1974-77	01057S	1.753 Head Diameter, Stellite Face, To S/N 025,001 +15 O/S Stem Available
	Exh	1974-78	00917SN	1.506 Head Diameter, Stellite Face, Sodium Filled, +15 O/S Stem Available
Keeper	Both	1974-78	121-1007	1 SQ Bead Type
Stem Seal	Both	1974-78	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
Guide	Int	1974-78	140-6109	0.3740 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1974-78	140-9109	0.3740 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	1974-78	140-6119	0.4375 I.D., 2.500 Length, 0.6267 O.D., Plain I.D. Conversion Guide, +2 O/S Available
		1974-78	140-9119	0.4375 I.D., 2.500 Length, 0.6265 O.D., Spiral I.D. Conversion Guide
Spring	Int	1977-78	160-1175	2.120 Length, W/ Damper, From S/N C10001
Lifter	Both	1974-78	VL9	Hydraulic Type

(Cont'd) FORD TRUCK / PASSENGER TRUCK**359 C.I., (5.9L), OHV, GAS, CARB, 16 Valve, Vin K, ""Medium Duty""**
1974-78 V8 359 CID**FOT359 77**
BORE - 102.87mm/4.05"" (cont.)

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	1974-78	180-1059	Rocker Arm, Cast
		1974-78	186-1090	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	1974-78	190-1426	9.590 Length,+60 O/S (190-1426+60) Available ,W/ Hyd. Lifters (Std. Length) W/ Ball Tips

360 C.I., (5.9L), OHV, GAS, CARB, 16 Valve, Vin Y
1968-76 V8 360 CID**FOT360Y 78**
BORE - 102.9mm/4.05""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1968-76	SB2062-1	2 ¹ / ₁₆ O.D.,1 ¹³ / ₁₆ T I.D., ¹ / ₄ Depth
	Exh	1968-76	SB1687-1	1 ¹¹ / ₁₆ O.D.,1 ¹³ / ₃₂ I.D., ¹ / ₄ Depth,+10 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int	1968-76	00637	2.027 Head Diameter,+15 O/S Stem Available
	Exh	1968-76	01242	1.559 Head Diameter,+15 O/S Stem Available
Keeper	Both	1968-76	121-1007	1 SQ Bead Type
Stem Seal	Both	1968-76	122-1031	Positive Type,Poly Material,2-Ring Style
		1968-76	122-1033	Umbrella Type,Poly Material,Umbrella Style
Guide	Int	1968-76	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1968-76	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
	Exh	1968-76	140-7298	0.3730 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1968-76	140-9298	0.3729 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Exh	1973-76	160-1006	1.960 Length,F100
	Both	1968-76	160-1175	2.120 Length,W/ Damper,Exc. 1973-76 F100 Exh
Lifter	Both	1968-76	VL9	Hydraulic Type
Rocker Components	Both	1968-76	180-1059	Rocker Arm, Cast
		1968-76	186-1090	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	1968-76	190-1426	9.590 Length,+60 O/S (190-1426+60) Available ,W/ Hyd. Lifters (Std. Length) W/ Ball Tips

361 C.I., (5.9L), OHV, GAS, CARB, 16 Valve
1964-78 V8 361 CID**FOT361 79**
BORE - 102.9mm/4.05""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1964-78	SB1815E-1	1.815 O.D.,1.595 I.D., ¹ / ₄ Depth,OEM # C8TZ-6057A
		1964-78	SB1875-2	1 ⁷ / ₈ O.D.,1 ⁹ / ₁₆ I.D., ¹ / ₄ Depth,Optional, Use W/ 1 ⁷ / ₈ Cutter
	Exh	1964-78	SB1630E-1	1.630 O.D.,1.335 I.D.,0.3120 Depth,+5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material,OEM # C4TZ-6057A & D1TZ-6057A
		1964-78	SB1630E-1N	1.630 O.D.,1.335 I.D.,0.3120 Depth,LPG
		1964-78	SB1687-4	1 ¹¹ / ₁₆ O.D.,1 ¹¹ / ₃₂ I.D., ⁵ / ₁₆ Depth,Also Available In Non-Magnetic (N) Material,Optional, Use W/ 1 ¹¹ / ₁₆ Cutter
1964-78	SB1687-4N	1 ¹¹ / ₁₆ O.D.,1 ¹¹ / ₃₂ I.D., ⁵ / ₁₆ Depth,LPG, Optional, Use W/ 1 ¹¹ / ₁₆ Cutter		
Valve	Int	1964-77	01057S	1.753 Head Diameter,Stellite Face,To S/N 025,001, 0.473 Tip To Groove Length., +15 O/S Stem Available
	Exh	1964-78	00917SN	1.506 Head Diameter,Stellite Face, Sodium Filled,+15 O/S Stem Available
Keeper	Both	1964-78	121-1007	1 SQ Bead Type
Stem Seal	Both	1964-78	122-1036	Umbrella Type,Poly Material,Umbrella Style

FORD TRUCK / PASSENGER TRUCK (Cont'd)

79 361 C.I., (5.9L), OHV, GAS, CARB, 16 Valve FOT361
 (cont.) 1964-78 V8 361 CID BORE - 102.9mm/4.05"

PART		YEARS	PART NO.	NOTES
Stem Seal	Both	1964-78	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
Guide	Int	1964-78	140-6109	0.3740 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1964-78	140-9109	0.3740 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	1964-78	140-6119	0.4375 I.D.,2.500 Length,0.6267 O.D.,Plain I.D. Conversion Guide,+2 O/S Available
		1964-78	140-9119	0.4375 I.D.,2.500 Length,0.6265 O.D.,Spiral I.D. Conversion Guide
Spring	Int	1977-78	160-1175	2.120 Length,W/ Damper,From S/N 025,001
	Both	1964-76	160-1006	1.960 Length,W/O Damper
Lifter	Both	1964-78	VL9	Hydraulic Type
Rocker Components	Both	1964-78	180-1059	Rocker Arm, Cast
		1964-78	186-1090	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	1964-72	190-1351	9.620 Length,+60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available,W/ Mechanical Lifters
		1972-78	190-1426	9.590 Length,+60 O/S (190-1426+60) Available ,W/ Hyd. Lifters (Std. Length) W/ Ball Tips

80 365 C.I., (6.0L), OHV, DIESEL, FI, 32 Valve, Vin P ""Navistar VT Powerstroke FOT6.0TD
 TURBO"" V8 365 CID BORE - 95mm/3.74"
 2003-10

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2003-10	SB1375-2	1 $\frac{3}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{1}{4}$ Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	2003-10	SB1250-15N	1 $\frac{1}{4}$ O.D.,0.905 I.D., $\frac{1}{4}$ Depth,NOTE: Star Series Material W/ Smaller I.D.; NOTE: Seat May Need To Be Machined To Achieve Correct Depth
		2003-10	SB1250-3	1 $\frac{1}{4}$ O.D.,1.000 I.D., $\frac{1}{4}$ Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2003-10	02179	1.339 Head Diameter
		2003-10	02179R	1.339 Head Diameter,NOTE: Optional Performance Valve, See Performance Catalog For Details
	Exh	2003-10	02180	1.102 Head Diameter
		2003-10	02180R	1.102 Head Diameter,NOTE: Optional Performance Valve, See Performance Catalog For Details
Keeper	Both	2003-10	121-1105A	1 RD Bead Type,OEM # 3C3Z6518AA
Stem Seal	Both	2003-10	122-1378	Positive Type,Viton Material,Top Hat Style
Guide	Both	2003-10	140-3055	0.2765 I.D.,2.331 Length,0.4395 O.D.
Spring	Both	2003-10	160-1458	2.076 Length
		2003-10	360-1021	2.134 Length,NOTE: Optional Performance Valve Spring, See Performance Catalog For Details
Rotator		2003-10	161-1079	
Lifter	Both	2003-10	VL114	Hydraulic Roller Type,OEM # 3C3Z6500AA
Push Rod	Both	2003-10	190-1548	9.795 Length,OEM # 8C3Z6565B; Note: Bronze Colored End MUST Install Towards Rocker Arm.
Head Saver Shim		2003-10	230-2148	New Hgt. 3.7380 - 3.7400: Min. Hgt. 3.7280: 2 Required; NOTE: W/18mm Dowel Pins
		2003-10	230-2196	New Hgt. 3.7380 - 3.7400: Min. Hgt. 3.7280; NOTE: W/20mm Dowel Pins
Injector Tubes and Components		2003-10	240-1034	Stainless Steel Material,Injector Tube,OEM # 3C3Z-9F538-AA, 1828320C1

(Cont'd) **FORD TRUCK / PASSENGER TRUCK**

365 C.I., (6.0L), OHV, DIESEL, FI, 32 Valve, Vin P ""Navistar VT Powerstroke TURBO"" **80**
2003-10 V8 365 CID FOT6.0TD (cont.)
BORE - 95mm/3.74""

PART	YEARS	PART NO.	NOTES
Injector Tubes and Components	2003-10	240-1034GP	Stainless Steel Material,OEM # 3C3Z-12A379-AA; NOTE: Glow Plug Sleeve

370 C.I., (6.1L), OHV, GAS, CARB, 16 Valve Vin A, H **81**
1979-91 V8 370 CID FOT370MD
BORE - 102.87mm/4.05""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1979-91	SB1875-1	1 $\frac{7}{8}$ O.D.,1 $\frac{5}{8}$ I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material
	Exh 1979-91	SB1671E-1N	1.671 O.D.,1.367 I.D.,0.3100 Depth,OEM # D9HZ-6057C.
	1979-91	SB1687-4N	1 $\frac{11}{16}$ O.D.,1 $\frac{11}{32}$ I.D., $\frac{5}{16}$ Depth,Optional, Use W/ 1 $\frac{11}{16}$ Cutter
Valve	Int 1979-85	01382	1.784 Head Diameter,2 Bbl. Carb.
	1979-91	01384S	1.784 Head Diameter,Stellite Face,1979-85 W/ 4 Bbl. Carb., 1986-91 All, +15 O/S Stem Available
	Exh 1979-85	01381	1.562 Head Diameter,2 Bbl. Carb.
	1979-91	01383SN	1.563 Head Diameter,Stellite Face, Sodium Filled,1979-85 W/ 4 Bbl. Carb., 1986-91 All, +15 O/S Stem Available
Keeper	Both 1979-91	121-1007	1 SQ Bead Type
Stem Seal	Both 1979-91	122-1036	Umbrella Type,Poly Material,Umbrella Style
Guide	Exh 1979-91	140-9109	0.3740 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Exh 1979-85	160-1204	2.100 Length,W/ 2Bbl Carb.
Lifter	Both 1979-91	VL35	Hydraulic Type
Rocker Components	Both 1979-91	180-1233	Rocker Arm, Stamped
	1979-91	181-1034	Rocker Arm Kit, Includes (1) Stamped R. Arm, (1) Fulcrum, (1) $\frac{5}{16}$ Bolt
	1979-91	183-1022	Fulcrum
	1979-91	184-1034	Bolt, $\frac{5}{16}$
Push Rod	Both 1979-91	190-1425	8.550 Length,+60 O/S (190-1425+60) Available,Exc. Police & Cobra Jet

379 C.I., (6.2L), SOHC, FLEX, GAS, FI, 16 Valve, Vin 6 **82**
2010-21 V8 379 CID FOT6.2-SC
BORE - 102.1mm/4.020""

PART	YEARS	PART NO.	NOTES
Valve	Int 2010-20	13288	2.106 Head Diameter,Except CNG-LPG; Incl. 2010-14 Raptor
	2012-20	13290S	2.106 Head Diameter,Stellite Face,W/ CNG-LPG Prep Package
	Exh 2010-20	13289	1.654 Head Diameter,Except CNG-LPG; Inc. 2010-14 Raptor
	2012-20	13291S	1.654 Head Diameter,Stellite Face,W/ CNG-LPG Prep Package
Keeper	Both 2010-20	121-1083	3 RD Bead Type
Stem Seal	Both 2010-18	122-1445	Positive Type,Viton Material,Top Hat Style
Guide	Both 2010-20	140-3203	0.3142 I.D.,2.210 Length,0.5145 O.D.
Spring	Both 2010-16	160-1611	2.530 Length,Conical

389 C.I., (6.4L), OHV, GAS, CARB, 16 Valve, Vin F **83**
1975-78 V8 389 CID FOT389MD
BORE - 102.9mm/4.05""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1975-78	SB1815E-1	1.815 O.D.,1.595 I.D., $\frac{1}{4}$ Depth,OEM # C8TZ-6057A
	1975-78	SB1875-2	1 $\frac{7}{8}$ O.D.,1 $\frac{1}{16}$ I.D., $\frac{1}{4}$ Depth,Optional, Use W/ $\frac{1}{16}$ Cutter

FORD TRUCK / PASSENGER TRUCK (Cont'd)

83 389 C.I., (6.4L), OHV, GAS, CARB, 16 Valve, Vin F
(cont.) 1975-78 V8 389 CID

FOT389MD
BORE - 102.9mm/4.05"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1975-78	SB1630E-1	1.630 O.D., 1.335 I.D., 0.3120 Depth, +5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material, OEM # C4TZ-6057A & D1TZ-6057A
		1975-78	SB1687-4	1 ¹¹ / ₁₆ O.D., 1 ¹¹ / ₃₂ I.D., ⁵ / ₁₆ Depth, Also Available In Non-Magnetic (N) Material, Optional, Use W/ 1 ¹¹ / ₁₆ Cutter
Valve	Int	1975-77	01057S	1.753 Head Diameter, Stellite Face, To S/N 025,001, 0.473 Tip To Groove Length., +15 O/S Stem Available
	Exh	1975-78	00917SN	1.506 Head Diameter, Stellite Face, Sodium Filled, +15 O/S Stem Available
Keeper	Both	1975-78	121-1007	1 SQ Bead Type
Stem Seal	Both	1975-78	122-1036	Umbrella Type, Poly Material, Umbrella Style
		1975-78	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
Guide	Int	1975-78	140-6109	0.3740 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1975-78	140-9109	0.3740 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	1975-78	140-6119	0.4375 I.D., 2.500 Length, 0.6267 O.D., Plain I.D. Conversion Guide, +2 O/S Available
		1975-78	140-9119	0.4375 I.D., 2.500 Length, 0.6265 O.D., Spiral I.D. Conversion Guide
Spring	Both	1975-78	160-1006	1.960 Length
Lifter	Both	1975-78	VL9	Hydraulic Type
Rocker Components	Both	1975-78	180-1059	Rocker Arm, Cast
		1975-78	186-1090	Rocker Arm Shaft, 2 Required W/ Hydraulic Lifter
Push Rod	Both	1975-78	190-1426	9.590 Length, +60 O/S (190-1426+60) Available ,W/ Hyd. Lifters W/ Ball Tips

84 390 C.I., (6.4L), OHV, GAS, CARB, 16 Valve, Vin H, M, S, Y
1968-76 V8 390 CID

FOT390HM
BORE - 102.9mm/4.05"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1968-76	SB2062-1	2 ¹ / ₁₆ O.D., 1 ¹³ / ₁₆ I.D., ¹ / ₄ Depth
	Exh	1968-76	SB1687-1	1 ¹¹ / ₁₆ O.D., 1 ¹³ / ₃₂ I.D., ¹ / ₄ Depth, +10 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int	1968-76	00637	2.027 Head Diameter, +15 O/S Stem Available
	Exh	1968-76	01242	1.559 Head Diameter, +15 O/S Stem Available
Keeper	Both	1968-76	121-1007	1 SQ Bead Type
Stem Seal	Both	1968-76	122-1031	Positive Type, Poly Material, 2-Ring Style
		1968-76	122-1033	Umbrella Type, Poly Material, Umbrella Style
Guide	Int	1968-76	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1968-76	140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
	Exh	1968-76	140-7298	0.3730 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1968-76	140-9298	0.3729 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Exh	1972-76	160-1006	1.960 Length, F100
	Both	1972-76	160-1175	2.120 Length, W/ Damper, Exc. F100 Exh.
Lifter	Both	1968-76	VL9	Hydraulic Type
Rocker Components	Both	1968-76	180-1059	Rocker Arm, Cast, Non-Adjustable
		1968-76	186-1090	Rocker Arm Shaft, 2 Required W/ Hydraulic Lifter

(Cont'd) FORD TRUCK / PASSENGER TRUCK**390 C.I., (6.4L), OHV, GAS, CARB, 16 Valve, Vin H, M, S, Y**
1968-76 V8 390 CID**FOT390HM 84**
BORE - 102.9mm/4.05" (cont.)

PART	YEARS	PART NO.	NOTES	
Push Rod	Both	1968-68	190-1351	9.620 Length,+60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available,W/ Hyd. Lifters W/ Ball Tips, To Change L2
		1968-76	190-1426	9.590 Length,+60 O/S (190-1426+60) Available ,W/ Hyd. Lifters W/ Ball Tips, From Change L2

391 C.I., (6.4L), OHV, GAS, CARB, 16 Valve, Vin F
1964-78 V8 391 CID**FOT391MD 85**
BORE - 102.9mm/4.05"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1964-78	SB1815E-1	1.815 O.D.,1.595 I.D., $\frac{1}{4}$ Depth,OEM # C8TZ-6057A
		1964-78	SB1875-2	$1\frac{7}{8}$ O.D., $1\frac{1}{16}$ I.D., $\frac{1}{4}$ Depth,Optional, Use W/ $1\frac{7}{8}$ Cutter
	Exh	1964-78	SB1630E-1	1.630 O.D.,1.335 I.D.,0.3120 Depth,+5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material,OEM # C4TZ-6057A & D1TZ-6057A
		1964-78	SB1630E-1N	1.630 O.D.,1.335 I.D.,0.3120 Depth,LPG
	1964-78	SB1687-4	$1\frac{11}{16}$ O.D., $1\frac{11}{32}$ I.D., $\frac{5}{16}$ Depth,Also Available In Non-Magnetic (N) Material,Optional, Use W/ $1\frac{11}{16}$ Cutter	
1964-78	SB1687-4N	$1\frac{11}{16}$ O.D., $1\frac{11}{32}$ I.D., $\frac{5}{16}$ Depth,LPG, Optional, Use W/ $1\frac{11}{16}$ Cutter		
Valve	Int	1964-77	01057S	1.753 Head Diameter,Stellite Face,To S/N 025,001, 0.473 Tip To Groove Length., +15 O/S Stem Available
	Exh	1964-78	00917SN	1.506 Head Diameter,Stellite Face, Sodium Filled,+15 O/S Stem Available
Keeper	Both	1964-78	121-1007	1 SQ Bead Type
Stem Seal	Exh	1964-78	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
Guide	Int	1964-78	140-9964	0.3730 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9964H)
	Exh	1964-78	140-6119	0.4375 I.D.,2.500 Length,0.6267 O.D.,Plain I.D. Conversion Guide,+2 O/S Available
		1964-78	140-9119	0.4375 I.D.,2.500 Length,0.6265 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1964-77	160-1006	1.960 Length
		1977-78	160-1175	2.120 Length,W/ Damper
Lifter	Both	1964-78	VL9	Hydraulic Type
Rocker Components	Both	1964-78	180-1059	Rocker Arm, Cast,Non-Adjustable
		1964-78	186-1090	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	1964-72	190-1351	9.620 Length,+60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available,W/ Mechanical Lifters
		1972-78	190-1426	9.590 Length,+60 O/S (190-1426+60) Available ,W/ Hyd. Lifters W/ Ball Tips

391 C.I., (6.4L), OHV, DIESEL, FI, 32 Valve, Vin R, ""Navistar MaxxForce 7 TURBO""

2008-10 V8 391 CID

FOT6.4TD 86
BORE - 98mm/3.86"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2008-10	SB1375-2	$1\frac{3}{8}$ O.D., $1\frac{1}{8}$ I.D., $\frac{1}{4}$ Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
		Exh	2008-10	SB1250-15N
	2008-10		SB1250-3	$1\frac{1}{4}$ O.D.,1.000 I.D., $\frac{1}{4}$ Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2008-10	13182	1.339 Head Diameter,OEM # 8C3Z6507A

FORD TRUCK / PASSENGER TRUCK (Cont'd)

86 391 C.I., (6.4L), OHV, DIESEL, FI, 32 Valve, Vin R, ""Navistar MaxxForce 7
(cont.) TURBO""

FOT6.4TD

2008-10

V8 391 CID

BORE - 98mm/3.86""

PART		YEARS	PART NO.	NOTES
Valve	Int	2008-10	13182R	1.339 Head Diameter,Optional Performance Valve, See Performance Catalog For Details
	Exh	2008-10	13183	1.161 Head Diameter,OEM # 8C3Z6505A
		2008-10	13183R	1.162 Head Diameter,Optional Performance Valve, See Performance Catalog For Details
Keeper	Both	2008-10	121-1105A	1 RD Bead Type,OEM # 1828289C1
Stem Seal	Both	2008-10	122-1378	Positive Type,Viton Material,Top Hat Style,OEM # 3C3Z6571AA
Guide	Both	2008-10	140-3055	0.2765 I.D.,2.331 Length,0.4395 O.D.
Spring	Both	2008-10	160-1458	2.076 Length,OEM # 3C3Z6513AA
		2008-10	360-1021	2.134 Length,NOTE: Optional Performance Valve Spring, See Performance Catalog For Details
Rotator		2008-10	161-1079	
Lifter	Both	2008-10	VL114	Hydraulic Roller Type,OEM # 3C3Z6500AA
Push Rod	Both	2008-10	190-1548	9.795 Length,OEM # 8C3Z6565B; Note: Bronze Colored End MUST Install Towards Rocker Arm.
Head Saver Shim		2008-10	230-2178	New Hgt. - 3.740; Min. Hgt. - N/A
Injector Tubes and Components		2008-10	240-1034GP	Stainless Steel Material,OEM # 3C3Z-12A379-AA; NOTE: Glow Plug Sleeve
		2008-10	240-1043	Stainless Steel Material,Injector Tube,OEM # 8C3Z9N951A

87 400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin S, Z
1977-82

FOT400SZ

V8 400 CID

BORE - 101.6mm/4.00""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1977-82	SB2125-2	2 $\frac{1}{8}$ O.D.,1 $\frac{7}{8}$ I.D., $\frac{1}{4}$ Depth
	Exh	1977-82	SB1750-2	1 $\frac{3}{4}$ O.D.,1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1977-77	01170	2.041 Head Diameter,4 Groove,+15 O/S Stem Available, To S/N CGO,001
		1978-82	01380	2.041 Head Diameter,1 Groove,From S/N CGO,001, +15 O/S Stem Available
	Exh	1977-77	01169	1.655 Head Diameter,4 Groove,0.3415 Stem Dia., +15 O/S Stem Available
		1978-82	01367	1.655 Head Diameter,1 Groove,0.3414 Stem Dia., +15 O/S Stem Available
Keeper	Both	1977-77	121-1019	4 RD Bead Type
		1978-82	121-1003	1 SQ Bead Type
Stem Seal	Int	1977-82	122-1038	Umbrella Type,Poly Material,Umbrella Style
	Exh	1977-82	122-1032	Umbrella Type,Poly Material,Umbrella Style
	Both	1977-82	122-1048	Positive Type,Poly Material,2-Ring Style,W/ .341 Stem Dia. & Use W/ Factory Guide Boss
Guide	Both	1977-82	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1977-82	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Exh	1978-82	160-1041	1.965 Length,W/ Rotator
	Both	1977-82	160-1162	2.056 Length,W/O Rotator, Exc. 1978-82 Exh.
Lifter	Both	1977-82	VL35	Hydraulic Type
Rocker Components	Both	1977-82	180-1233	Rocker Arm, Stamped

(Cont'd) FORD TRUCK / PASSENGER TRUCK**400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin S, Z**
1977-82 V8 400 CID**FOT400SZ 87**
BORE - 101.6mm/4.00" (cont.)

PART	YEARS	PART NO.	NOTES
Rocker Components	Both	1977-82	Rocker Arm Kit, Includes (1) Stamped R. Arm, (1) Fulcrum, (1) 5/16 Bolt Fulcrum Bolt, 5/16
		1977-82	
		1977-82	
Push Rod	Both	1977-82	190-1417 9.500 Length,+60 O/S (190-1417+60) & - 60 U/S (190-1417U60) Available,Exc. Boss Special

401 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin H
1958-76 V8 401 CID**FOT401MD 88**
BORE - 104.77mm/4.125"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1958-76	2.220 O.D.,1.843 I.D.,0.3120 Depth,OEM # B8TZ-6057T 1.744 O.D.,1.445 I.D.,0.3120 Depth,OEM # B8QH-6057A
	Exh	1958-76	
Valve	Int	1958-76	2.020 Head Diameter,Stellite Face 1.634 Head Diameter,Stellite Face, Sodium Filled 1.635 Head Diameter,Stellite Face,Optional
	Exh	1958-76	
		1958-76	
Keeper	Both	1958-76	121-1009 1 SQ Bead Type
Stem Seal	Both	1958-76	122-1003 Umbrella Type,Nitrile Material,Umbrella Style
Guide	Exh	1970-76	140-7197 0.4375 I.D.,3.000 Length,0.6270 O.D.,Plain I.D. Conversion Guide 0.4375 I.D.,3.000 Length,0.6270 O.D.,Spiral I.D. Conversion Guide
		1970-76	
	Both	1958-76	140-9609 0.4375 I.D.,2.625 Length,0.6270 O.D.,Spiral I.D. Conversion Guide,Both 1958-69, Intake Only 1970-76

401 C.I., (6.6L), DIESEL, FI, 12 Valve, Vin P, ""Brazilian TURBO""
1986-93 L6 401 CID**FOT6.6TD 89**
BORE - 111.76mm/4.40"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1986-93	SB1733E-2N 1.733 O.D.,1.455T I.D.,0.3650 Depth,CF600/800 Series
Valve	Int	1986-93	01694 1.842 Head Diameter,Indirect Injection 01757 1.870 Head Diameter,Direct Injection
		1986-93	
	Exh	1986-93	01758 1.693 Head Diameter,Direct Injection
Keeper	Both	1986-93	121-1007 1 SQ Bead Type
Stem Seal	Both	1986-93	122-1237 Positive Type,Viton Material,Metal Clad Style
Guide	Both	1986-93	140-8409 0.3730 I.D.,2.680 Length,0.6270 O.D.

406 C.I., (6.7L), OHV, DIESEL, FI, 32 Valve, Vin T, ""Ford Scorpion Powerstroke TURBO""

2011-21 V8 406 CID

FOT6.7TD 90
BORE - 99.1mm/3.900"

PART	YEARS	PART NO.	NOTES
Valve	Int	2011-20	13265 1.331 Head Diameter 13266 1.195 Head Diameter,Inconel
	Exh	2011-20	
Keeper	Both	2011-20	121-1084 3 RD Bead Type
Stem Seal	Both	2011-20	122-1441 Positive Type,Viton Material,Top Hat Style
Guide	Both	2011-20	140-3163 0.2764 I.D.,2.150 Length,0.4725 O.D.
Spring	Both	2011-20	160-1616 1.979 Length,Conical
Rotator		2011-20	161-1080
Push Rod	Both	2011-20	190-1553 9.530 Length

FORD TRUCK / PASSENGER TRUCK (Cont'd)

91 415 C.I., (6.8L), SOHC, CNG, GAS, LPG, FI, 20 Valve, Vin S, ""Triton"" FOT415-HD20V
 1997-19 V10 415 CID BORE - 90.2mm/3.55""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1997-19	SB1875-56 1 $\frac{7}{8}$ O.D.,1.600T I.D.,0.2520 Depth,Also Available In Non-Magnetic (N) Material
	Exh	1997-19	SB1875-56N 1 $\frac{7}{8}$ O.D.,1.600T I.D.,0.2520 Depth,CNG & LPG
		1997-99	SB1375-61 1 $\frac{3}{8}$ O.D.,1.130T I.D.,0.3040 Depth,Also Available In Non-Magnetic (N) Material,Exc. CNG & LPG
		1997-99	SB1375-61N 1 $\frac{3}{8}$ O.D.,1.130T I.D.,0.3040 Depth,CNG & LPG
	2000-19	SB1500-50 1 $\frac{1}{2}$ O.D.,1.203T I.D.,0.2800 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,Exc. CNG & LPG, Seat May Need To Be Machined To Achieve Correct Depth	
2000-19	SB1500-50N 1 $\frac{1}{2}$ O.D.,1.203T I.D.,0.2800 Depth,CNG & LPG, Seat May Need To Be Machined To Achieve Correct Depth		
Valve	Int	1997-99	01699 1.752 Head Diameter,4.607 Length
		1997-99	01699S 1.752 Head Diameter,Stellite Face,4.607 Length
		2000-19	01924 1.752 Head Diameter,4.752 Length, Exc. CNG & LPG
	Exh	2000-19	01924S 1.752 Head Diameter,Stellite Face,4.752 Length, CNG & LPG
		1997-99	01698S 1.339 Head Diameter,Stellite Face,4.622 Length
		2000-19	01925 1.418 Head Diameter,4.681 Length, Exc. CNG & LPG
		2000-19	01925S 1.418 Head Diameter,Stellite Face,4.681 Length, CNG & LPG
Keeper	Both	1997-19	121-1084 3 RD Bead Type
Stem Seal	Both	1997-19	122-1449 Positive Type,Viton Material,Top Hat Style
Guide	Both	1997-19	140-8274 0.2765 I.D.,1.930 Length,0.4953 O.D.,+2, +3 O/S Available
		1997-19	140-8274H 0.2765 I.D.,1.930 Length,0.4953 O.D.,CNG & LPG
Spring	Both	1997-99	160-1408 2.115 Length,Conical, Large End O.D. 1.040""
		2000-19	160-1411 2.101 Length,Conical, Large End O.D. 1.069"",NOTE:These springs are for castings that have slotted spring seats in order to accept the larger O.D. spring
Lifter	Both	1997-19	VL107 Hydraulic Lash Adjuster Type
Rocker Components	Both	1997-19	180-1284 Roller Cam Follower
Head Bolt Set		1997-16	220-1071 Torque To Yield,2 Required
Head Saver Shim		1997-14	230-2179L Left,New Hgt. - 5.310 - 5.312; Min. Hgt. - N/A
		1997-14	230-2179R Right,New Hgt. - 5.310 - 5.312; Min. Hgt. - N/A

92 415 C.I., (6.8L), SOHC, CNG, GAS, LPG, FI, 30 Valve, Vin Y, ""Triton"" FOT415-HD30V
 2005-19 V10 415 CID BORE - 90.2mm/3.55""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2005-15	SB1375-50 1 $\frac{3}{8}$ O.D.,1.109T I.D.,0.2550 Depth,Also Available In Non-Magnetic (N) Material
	Exh	2005-15	SB1500-73 1 $\frac{1}{2}$ O.D.,1.230 I.D.,0.2780 Depth,Also Available In Non-Magnetic (N) Material
		2005-15	SB1500-73N 1 $\frac{1}{2}$ O.D.,1.230 I.D.,0.2780 Depth,CNG & LPG
Valve	Int	2005-15	02118 1.331 Head Diameter,Includes "" Flex-Fuel "" , (Uses Two Intake Valves per Cylinder)
	Exh	2005-15	02119 1.479 Head Diameter,Inconel ,Includes "" Flex-Fuel ""
Keeper	Both	2005-15	121-1082 3 RD Bead Type
Stem Seal	Both	2005-15	122-1356 Positive Type,Viton Material,Top Hat Style
Guide	Both	2005-15	140-3047 0.2371 I.D.,1.725 Length,0.4360 O.D.
Spring	Both	2005-15	160-1485 2.150 Length,Conical
Lifter	Both	2005-15	VL180 Hydraulic Lash Adjuster Type,W/ Undercut Groove On Boss
Rocker Components	Both	2005-15	180-1330 Cam Follower
Head Saver Shim		2005-15	230-2179L Left,New Hgt. - 5.310 - 5.312; Min. Hgt. - N/A

(Cont'd) FORD TRUCK / PASSENGER TRUCK

415 C.I., (6.8L), SOHC, CNG, GAS, LPG, FI, 30 Valve, Vin Y, ""Triton"" FOT415-HD30V 92
 2005-19 V10 415 CID BORE - 90.2mm/3.55"" (cont.)

PART	YEARS	PART NO.	NOTES
Head Saver Shim	2005-15	230-2179R	Right,New Hgt. - 5.310 - 5.312; Min. Hgt. - N/A

420 C.I., (6.9L), OHV, DIESEL, FI, 16 Valve, Vin 1 ""International"" FOT6.9D 93
 1983-87 V8 420 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1983-84	SB1875-38 1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., ³ / ₁₆ Depth, To Be Used In Most Early A & B Castings Due To Thin Wall Sections
		1983-87	
		1985-87	SB1957ST 1.957 O.D., 1.563T I.D., 0.3130 Depth, NOTE: Small Stepped O.D. Dimension Is 1.755, Alternate Stepped O.D., Can Be Used in Thin Wall Casting
	Exh	1983-87	SB1937-23 1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., ³ / ₁₆ Depth, Cannot Be Used In Early Year A & B Castings Because Of Thin Casting
			SB1669E-1 1.669 O.D., 1.372T I.D., 0.2720 Depth, OEM # E3TZ-6057B, Non-Magnetic
Valve	Int	1983-87	01543 1.877 Head Diameter, Valve Has .010 Larger Margin To Save Seat Replacement; Early Head That Use C1 Valve W/ Large Margin Will Need Seat Replacement To Attain Correct Installed Height, +15 O/S Stem Available
	Exh	1983-87	01542 1.595 Head Diameter, Valve Has .010 Larger Margin To Save Seat Replacement; Early Heads That Use C1 Valves W/ Large Margins Will Need Seat Replacement To Attain Correct Installed Height
		1983-87	01542S 1.595 Head Diameter, Stellite Face, NOTE: Recommend For Turbo Updated Engine. Valve Has 0.010 Larger Margin To Save Seat Replacement, Early Heads That Use C1 Valves W/ Large Margins Will Need Seat Replacement To Attain Correct Installed Height, +15 O/S Stem Available
Keeper	Both	1983-87	121-1007 1 SQ Bead Type
Stem Seal	Exh	1983-87	122-1059 Umbrella Type, GF Nylon Material, Umbrella Style
	Both	1983-87	122-1330 Positive Type, Viton Material, Spring & Band Style
Guide	Both	1983-87	140-7689 0.3745 I.D., 2.600 Length, 0.6250 O.D., OEM Repair Version Check O.D
		1983-87	140-7712 0.3740 I.D., 2.600 Length, 0.6268 O.D., Plain I.D. Conversion Guide, For Use W/ ⁵ / ₈ Reamer, +2 O/S Available
Spring	Both	1983-87	160-1206 2.050 Length, W/ Damper
Lifter	Both	1983-87	VL114 Hydraulic Roller Type
Rocker Components	Both	1983-87	181-1060 Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Retainer
Push Rod	Both	1983-87	190-1531 9.993 Length, Install Bronze Colored End Toward Rocker Arm.

429 C.I., (7.0L), OHV, GAS, CARB, 16 Valve, Vin C, K, ""Medium Duty"" FOT429-CA 94
 1979-91 V8 429 CID BORE - 110.74mm/4.30""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1979-91	SB2250-1 2 ¹ / ₄ O.D., 1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	1979-91	
		1979-91	
			SB1781E-1N 1.781 O.D., 1.476 I.D., 0.3110 Depth, OEM # D9HZ-6057A
			SB1812-21N 1 ¹³ / ₁₆ O.D., 1 ¹⁵ / ₃₂ I.D., ⁵ / ₁₆ Depth, Optional O/S, Use W/ 1 ¹³ / ₁₆ Cutter
Valve	Int	1979-91	01386S 2.064 Head Diameter, Stellite Face, +15 O/S Stem Available
	Exh	1979-91	01385SN 1.670 Head Diameter, Stellite Face, Sodium Filled, +15 O/S Stem Available
Keeper	Both	1979-91	121-1007 1 SQ Bead Type
Stem Seal	Both	1979-91	122-1036 Umbrella Type, Poly Material, Umbrella Style
		1979-91	122-1063 Positive Type, Viton Material, All Rubber Style

FORD TRUCK / PASSENGER TRUCK (Cont'd)

94 429 C.I., (7.0L), OHV, GAS, CARB, 16 Valve, Vin C, K, ""Medium Duty"" FOT429-CA
 (cont.) 1979-91 V8 429 CID BORE - 110.74mm/4.30""

PART	YEARS	PART NO.	NOTES
Guide	Both	1979-91 140-9298	0.3729 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Exh	1986-91 160-1204	2.100 Length,W/ 2Bbl.
Lifter	Both	1979-91 VL35	Hydraulic Type
Rocker Components	Both	1979-91 1979-91 1979-91 1979-91 180-1233 181-1034 183-1022 184-1034	Rocker Arm, Stamped Rocker Arm Kit, Includes (1) Stamped R. Arm, (1) Fulcrum, (1) 5/16 Bolt Fulcrum Bolt, 5/16
Push Rod	Both	1979-91 190-1425	8.550 Length,+60 O/S (190-1425+60) Available

95 429 C.I., (7.0L), OHV, LPG, CARB, FI, 16 Valve, Vin J, K, ""LPG Medium Duty"" FOT429-LPG
 1991-98 V8 429 CID BORE - 110.74mm/4.30""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1991-98 1991-98 1991-98 SB2062-30 SB1781E-1N SB1812-21N	2 1/16 O.D., 1 13/16 I.D., 3/16 Depth, Optional 1 13/16 I.D. 1.781 O.D., 1.476 I.D., 0.3110 Depth, OEM # D9HZ-6057A 1 13/16 O.D., 1 15/32 I.D., 5/16 Depth, Optional O/S, Use W/ 1 13/16 Cutter
Valve	Int Exh	1991-98 1991-98 01548S 01832SN	1.977 Head Diameter, Stellite Face, To 12/97 Production 1.654 Head Diameter, Stellite Face, Sodium Filled, To 12/97 Production, +15 O/S Stem Available, NOTE: When Converting Gas Heads, Use OEM Retainer # F1TZ-6514B & +60 Shim.
Keeper	Both	1991-98 121-1003	1 SQ Bead Type
Stem Seal	Int Exh	1991-98 1991-98 122-1047 122-1075	Positive Type, Poly Material, 2-Ring Style Positive Type, Viton Material, Ring & Band Style
Guide	Both	1991-98 140-9459	0.3430 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1991-98 160-1201	2.090 Length, Use W/ 460 Casting # E7TE-BD
Lifter	Both	1991-98 VL35	Hydraulic Type
Rocker Components	Both	1991-98 1991-98 1991-98 1991-98 180-1233 181-1034 183-1022 184-1034	Rocker Arm, Stamped Rocker Arm Kit, Includes (1) Stamped R. Arm, (1) Fulcrum, (1) 5/16 Bolt Fulcrum Bolt, 5/16
Push Rod	Both	1991-98 190-1425	8.550 Length,+60 O/S (190-1425+60) Available

96 429 C.I., (7.0L), OHV, GAS, FI, 16 Valve, Vin J, ""Medium Duty"" FOT429-FI
 1991-98 V8 429 CID BORE - 110.74mm/4.30""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1991-98 1991-98 1991-98 SB2062-30 SB1781E-1N SB1812-21N	2 1/16 O.D., 1 13/16 I.D., 3/16 Depth, Optional 1 13/16 I.D. 1.781 O.D., 1.476 I.D., 0.3110 Depth, OEM # D9HZ-6057A 1 13/16 O.D., 1 15/32 I.D., 5/16 Depth, Optional O/S, Use W/ 1 13/16 Cutter
Valve	Int Exh	1991-98 1991-98 01548 01832SN	1.978 Head Diameter, +15 O/S Stem Available 1.654 Head Diameter, Stellite Face, Sodium Filled, To 12/97 Production, +15 O/S Stem Available
Keeper	Both	1991-98 121-1003	1 SQ Bead Type
Stem Seal	Int Exh	1991-98 1991-98 122-1047 122-1075	Positive Type, Poly Material, 2-Ring Style Positive Type, Viton Material, Ring & Band Style

(Cont'd) FORD TRUCK / PASSENGER TRUCK**429 C.I., (7.0L), OHV, GAS, FI, 16 Valve, Vin J, ""Medium Duty""**
1991-98 V8 429 CID**FOT429-FI 96**
BORE - 110.74mm/4.30"" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Both	1991-98	140-9459	0.3430 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1991-98	160-1201	2.090 Length,Use W/ 460 Casting E7TE-BD
Lifter	Both	1991-98	VL35	Hydraulic Type
Rocker Components	Both	1991-98	180-1233	Rocker Arm, Stamped
		1991-98	181-1034	Rocker Arm Kit, Includes (1) Stamped R. Arm, (1) Fulcrum, (1) $\frac{5}{16}$ Bolt
		1991-98	183-1022	Fulcrum
		1991-98	184-1034	Bolt, $\frac{5}{16}$
Push Rod	Both	1991-98	190-1425	8.550 Length,+60 O/S (190-1425+60) Available

445 C.I., (7.3L), OHV, DIESEL, FI, 16 Valve, Vin M, ""Navistar IDI Naturally Aspirated""

1988-95 V8 445 CID

FOT7.3D 97
BORE - 104.4mm/4.11""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-89	SB1875-38	1 $\frac{7}{8}$ O.D.,1 $\frac{5}{8}$ I.D., $\frac{3}{16}$ Depth,To Be Used In 1988-89 Castings Due To Thin Wall Sections
		1988-95	SB1957ST	1.957 O.D.,1.563T I.D.,0.3130 Depth,NOTE: Small Stepped O.D. Dimension Is 1.755,Alternate Stepped O.D., Can Be Used in Thin Wall Casting
	Exh	1990-95	SB1937-23	1 $\frac{15}{16}$ O.D.,1 $\frac{11}{16}$ I.D., $\frac{3}{16}$ Depth
		1990-95	SB1669E-1	1.669 O.D.,1.372T I.D.,0.2720 Depth,OEM # E3TZ-6057B, Cannot Be Used In 1988-89 Heads Due To Thin Castings, Non-Magnetic
Valve	Int	1988-95	01543	1.877 Head Diameter,Valve Has .010 Larger Margin To Save Seat Replacement; Early Head That Use C1 Valve W/ Large Margin Will Need Seat Replacement To Attain Correct Installed Height, +15 O/S Stem Available
	Exh	1988-95	01542	1.595 Head Diameter,Valve Has .010 Larger Margin To Save Seat Replacement; NOTE: Except Turbo
		1988-95	01542S	1.595 Head Diameter,Stellite Face,Valve Has .010 Larger Margin To Save Seat Replacement, +15 O/S Stem Available, NOTE: Turbo
Keeper	Both	1988-95	121-1007	1 SQ Bead Type
Stem Seal	Exh	1988-95	122-1059	Umbrella Type,GF Nylon Material,Umbrella Style
	Both	1988-95	122-1330	Positive Type,Viton Material,Spring & Band Style
Guide	Both	1988-95	140-7689	0.3745 I.D.,2.600 Length,0.6250 O.D.,OEM Repair Version Check O.D
		1988-95	140-7712	0.3740 I.D.,2.600 Length,0.6268 O.D.,Plain I.D. Conversion Guide,For Use W/ $\frac{5}{8}$ Reamer, +2 O/S Available
Spring	Both	1988-95	160-1206	2.050 Length,W/ Damper,OEM # E4TZ-6513C
Lifter	Both	1988-95	VL114	Hydraulic Roller Type
Rocker Components	Both	1988-95	181-1060	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Retainer
Push Rod	Both	1988-95	190-1531	9.993 Length,Install Bronze Colored End Toward Rocker Arm.
Head Saver Shim		1988-95	230-2140	2 Required; New Hgt. - 4.795"" - 4.805 - Min. Hgt. - 4.795""

445 C.I., (7.3L), OHV, DIESEL, FI, 16 Valve, Vin C, K, ""Navistar IDI TURBO""

1993-94 V8 445 CID

FOT7.3TD 98
BORE - 104.4mm/4.11""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1993-94	SB1875-38	1 $\frac{7}{8}$ O.D.,1 $\frac{5}{8}$ I.D., $\frac{3}{16}$ Depth,Optional, To Be Used in Thin Wall Casting

FORD TRUCK / PASSENGER TRUCK (Cont'd)

98 445 C.I., (7.3L), OHV, DIESEL, FI, 16 Valve, Vin C, K, ""Navistar IDI TURBO"" FOT7.3TD
(cont.) 1993-94 V8 445 CID BORE - 104.4mm/4.11""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1993-94	SB1937-23	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., ³ / ₁₆ Depth, Indirect Injection 1.957 O.D., 1.563T I.D., 0.3130 Depth, NOTE: Small Stepped O.D. Dimension Is 1.755, Alternate Stepped O.D., Can Be Used in Thin Wall Casting
		1993-94	SB1957ST	
	Exh	1993-94	SB1669E-1	1.669 O.D., 1.372T I.D., 0.2720 Depth, OEM # E3TZ-6057B, Indirect Injection, Non-Magnetic
Valve	Int	1993-94	01543	1.877 Head Diameter, Valve Has .010 Larger Margin To Save Seat Replacement; Early Head That Use C1 Valve W/ Large Margin Will Need Seat Replacement To Attain Correct Installed Height, +15 O/S Stem Available
	Exh	1993-94	01754	
Keeper	Both	1993-94	121-1007	1 SQ Bead Type
Stem Seal	Exh	1993-94	122-1059	Umbrella Type, GF Nylon Material, Umbrella Style Positive Type, Viton Material, Spring & Band Style
	Both	1993-94	122-1330	
Guide	Both	1993-94	140-7689	0.3745 I.D., 2.600 Length, 0.6250 O.D., OEM Repair Version Check O.D
		1993-94	140-7712	0.3740 I.D., 2.600 Length, 0.6268 O.D., Plain I.D. Conversion Guide, For Use W/ ⁵ / ₈ Reamer, +2 O/S Available
Spring	Both	1993-94	160-1206	2.050 Length, W/ Damper, OEM # E4TZ-6513C
Lifter	Both	1993-94	VL114	Hydraulic Roller Type
Rocker Components	Both	1993-94	181-1060	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Retainer
Push Rod	Both	1993-94	190-1531	9.993 Length, Install Bronze Colored End Toward Rocker Arm.
Head Saver Shim		1993-94	230-2140	2 Required; New Hgt. - 4.795"" - 4.805 - Min. Hgt. - 4.795""

99 445 C.I., (7.3L), OHV, DIESEL, FI, 16 Valve, Vin F, ""Navistar T444E
Powerstroke DI TURBO"" FOT7.3TED
1994-03 V8 445 CID BORE - 104.4mm/4.11""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1994-03	SB1750-4	1 ³ / ₄ O.D., 1 ⁷ / ₁₆ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material, Must Cut Seat Angle to 30 Degree
	Exh	1994-03	SB1750-4N	
Valve	Int	1994-03	01785	1.680 Head Diameter, W/ .3122 Stem Dia., 30 Degree Seat Angle
	Exh	1994-03	01786	
Keeper	Both	1994-03	121-1011	1 SQ Bead Type
Stem Seal	Both	1994-03	122-1333	Positive Type, Viton Material, Top Hat Style
Guide	Both	1994-03	140-8476	0.3146 I.D., 2.440 Length, 0.5651 O.D., For ⁵ / ₁₆ Stem, OEM Replacement, Check Press Fit
		1994-03	140-8562	0.3145 I.D., 2.440 Length, 0.5640 O.D., Use W/ Std. ⁹ / ₁₆ Tooling
Spring	Both	1994-03	160-1206	2.050 Length, W/ Damper
Lifter	Both	1994-03	VL114	Hydraulic Roller Type
Push Rod	Both	1994-03	190-1538	10.240 Length, OEM # F4TZ6565A, NOTE: Bronze Colored End MUST Install Towards Rocker Arm.
Head Bolt Set		1994-03	220-1109	Torque To Yield, 2 Required
Head Saver Shim		1994-03	230-2141	2 Required; New Hgt. - 5.095"" - 5.105"" - Min. Hgt. - 5.095""

(Cont'd) **FORD TRUCK / PASSENGER TRUCK**

445 C.I., (7.3L), OHV, DIESEL, FI, 16 Valve, Vin F, ""Navistar T444E
Powerstroke DI TURBO""
1994-03 V8 445 CID

99
FOT7.3TED (cont.)
BORE - 104.4mm/4.11""

PART	YEARS	PART NO.	NOTES
Injector Tubes and Components	1994-03	240-1026	Brass Material,Injector Tube,Navistar OEM # 1814376C1

460 C.I., (7.5L), OHV, GAS, CARB, 16 Valve, Vin A, J, L
1973-87 V8 460 CID

FOT460-CA **100**
BORE - 110.7mm/4.36""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1973-87	SB2250-1	2¼ O.D., 1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	1973-87	SB1750-2N	1¾ O.D., 1½ I.D., ⁷ / ₃₂ Depth
Valve	Int	1973-87	01272	2.083 Head Diameter, +15 O/S Stem Available
		1973-87	01271	1.654 Head Diameter, +15 O/S Stem Available
	Exh	1973-87	01547	1.654 Head Diameter, Recommended OEM Nickel Base Inconel Material, Optional, +15 O/S Stem Available
		1973-87	21547	1.654 Head Diameter, Alternative Austenitic Material, Optional
Keeper	Both	1973-87	121-1003	1 SQ Bead Type
Stem Seal	Int	1983-08/87	122-1325	Positive Type, Viton Material, Ring & Band Style, For Guide With 0.660 Seal Boss
	Exh	1983-08/87	122-1326	Positive Type, Viton Material, Ring & Band Style, For Guide With 0.660 Seal Boss
	Both	1973-87	122-1074	Positive Type, Viton Material, Ring & Band Style, Use W/ 0.502 Valve Guide O.D.
Guide	Both	1973-87	140-5606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U)
		1973-87	140-9606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9606U)
Spring	Both	1973-87	160-1161	2.068 Length
		1973-87	160-1409	2.300 Length, W/ Damper, Opt. H.D. Spring
Lifter	Both	1973-87	VL35	Hydraulic Type
Rocker Components	Both	1973-87	180-1233	Rocker Arm, Stamped
		1973-87	181-1034	Rocker Arm Kit, Includes (1) Stamped R. Arm, (1) Fulcrum, (1) ⁵ / ₁₆ Bolt
		1973-87	183-1022	Fulcrum
		1973-87	184-1034	Bolt, ⁵ / ₁₆
Push Rod	Both	1973-87	190-1425	8.550 Length, +60 O/S (190-1425+60) Available, Exc. Police & Cobra Jet

460 C.I., (7.5L), OHV, GAS, FI, 16 Valve, Vin G
1988-97 V8 460 CID

FOT460-FI **101**
BORE - 110.7mm/4.36""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-97	SB2062-30	2 ¹ / ₁₆ O.D., 1 ¹³ / ₁₆ I.D., ³ / ₁₆ Depth, W/ 1.977 Valve Head Dia.
		1993-97	SB2250-1	2¼ O.D., 1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth, W/ 2.083 Valve Head Dia.
	Exh	1988-97	SB1781E-1N	1.781 O.D., 1.476 I.D., 0.3110 Depth
		1988-97	SB1812-21N	1 ¹³ / ₁₆ O.D., 1 ¹⁵ / ₃₂ I.D., ⁵ / ₁₆ Depth, Optional O/S, Use W/ 1 ¹³ / ₁₆ Cutter
Valve	Int	1988-97	01548	1.978 Head Diameter, +15 O/S Stem Available
		1988-97	01548S	1.977 Head Diameter, Stellite Face, LPG
		1993-97	01723	2.083 Head Diameter
	Exh	1988-97	01547	1.654 Head Diameter, Recommended OEM Nickel Base Inconel Material, Includes LPG, +15 O/S Stem Available
		1988-97	21547	1.654 Head Diameter, Alternative Austenitic Material, Includes LPG
Keeper	Both	1988-97	121-1003	1 SQ Bead Type
Stem Seal	Int	1988-02/92	122-1325	Positive Type, Viton Material, Ring & Band Style

FORD TRUCK / PASSENGER TRUCK (Cont'd)

101 460 C.I., (7.5L), OHV, GAS, FI, 16 Valve, Vin G
(cont.) 1988-97 V8 460 CID

FOT460-FI
BORE - 110.7mm/4.36"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Exh	03/92-94	122-1006	Positive Type,Rubber Material,Ring & Band Style
		1988-02/92	122-1326	Positive Type,Viton Material,Ring & Band Style
	Both	03/92-97	122-1075	Positive Type,Viton Material,Ring & Band Style
		1988-02/92	122-1074	Positive Type,Viton Material,Ring & Band Style,To 2/15/92
Guide	Both	1988-97	140-9459	0.3430 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1988-97	160-1201	2.090 Length
		1988-97	160-1409	2.300 Length,W/ Damper,Opt. H.D. Spring
Lifter	Both	1988-97	VL35	Hydraulic Type
Rocker Components	Both	1988-97	180-1233	Rocker Arm, Stamped
		1988-97	181-1034	Rocker Arm Kit, Includes (1) Stamped R. Arm, (1) Fulcrum, (1) 5/16 Bolt
	1988-97	183-1022	Fulcrum	
	1988-97	184-1034	Bolt, 5/16	
Push Rod	Both	1988-97	190-1425	8.550 Length,+60 O/S (190-1425+60) Available

102 473 C.I., (7.8L), DIESEL, FI, 12 Valve, Vin A, ""Brazilian TURBO""
1987-94 L6 473 CID

FOT7.8TD
BORE - 111.76mm/4.40"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1987-94	SB1733E-2N	1.733 O.D.,1.455T I.D.,0.3650 Depth,CF600/800 Series
Valve	Int	1987-94	01757	1.870 Head Diameter
	Exh	1987-94	01758	1.693 Head Diameter
Keeper	Both	1987-94	121-1007	1 SQ Bead Type
Stem Seal	Both	1987-94	122-1237	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1987-94	140-8409	0.3730 I.D.,2.680 Length,0.6270 O.D.

103 475 C.I., (7.8L), OHV, GAS, CARB, 16 Valve, Vin J, ""Medium Duty""
1973-79 V8 475 CID

FOT475
BORE - 114.3mm/4.50"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1973-79	SB2220E-1	2.220 O.D.,1.843 I.D.,0.3120 Depth,OEM # B8TZ-6057T
	Exh	1973-79	SB1744E-1N	1.744 O.D.,1.445 I.D.,0.3120 Depth,OEM # B8QH-6057A
Valve	Int	1973-79	00531S	2.020 Head Diameter,Stellite Face
	Exh	1973-79	00530SN	1.634 Head Diameter,Stellite Face, Sodium Filled
		1973-79	01346S	1.635 Head Diameter,Stellite Face,Optional
Keeper	Both	1973-79	121-1009	1 SQ Bead Type
Stem Seal	Both	1973-79	122-1003	Umbrella Type,Nitrile Material,Umbrella Style
Guide	Int	1973-79	140-9609	0.4375 I.D.,2.625 Length,0.6270 O.D.,Spiral I.D. Conversion Guide
		1973-79	140-7197	0.4375 I.D.,3.000 Length,0.6270 O.D.,Plain I.D. Conversion Guide
	Exh	1973-79	140-9197	0.4375 I.D.,3.000 Length,0.6270 O.D.,Spiral I.D. Conversion Guide

104 477 C.I., (7.8L), OHV, GAS, CARB, 16 Valve, Vin K, ""Medium Duty""
1958-81 V8 477 CID

FOT477
BORE - 114.3mm/4.50"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1958-81	SB2220E-1	2.220 O.D.,1.843 I.D.,0.3120 Depth,OEM # B8TZ-6057T
	Exh	1958-81	SB1744E-1N	1.744 O.D.,1.445 I.D.,0.3120 Depth,OEM # B8QH-6057A
Valve	Int	1958-81	00531S	2.020 Head Diameter,Stellite Face
	Exh	1958-81	00530SN	1.634 Head Diameter,Stellite Face, Sodium Filled
		1958-81	01346S	1.635 Head Diameter,Stellite Face,Optional

(Cont'd) FORD TRUCK / PASSENGER TRUCK

477 C.I., (7.8L), OHV, GAS, CARB, 16 Valve, Vin K, ""Medium Duty"" **FOT477 104**
 1958-81 V8 477 CID **BORE - 114.3mm/4.50"" (cont.)**

PART		YEARS	PART NO.	NOTES
Keeper	Both	1958-81	121-1009	1 SQ Bead Type
Stem Seal	Both	1958-81	122-1003	Umbrella Type,Nitrile Material,Umbrella Style
Guide	Exh	1970-81	140-7197	0.4375 I.D.,3.000 Length,0.6270 O.D.,Plain I.D. Conversion Guide
		1970-81	140-9197	0.4375 I.D.,3.000 Length,0.6270 O.D.,Spiral I.D. Conversion Guide
	Both	1958-81	140-9609	0.4375 I.D.,2.625 Length,0.6270 O.D.,Spiral I.D. Conversion Guide,Both 1958-69, Intake Only 1970-81

534 C.I., (8.8L), OHV, GAS, CARB, 16 Valve, Vin L, ""Medium Duty"" **FOT534 105**
 1958-81 V8 534 CID **BORE - 114.3mm/4.50""**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1958-81	SB2220E-1	2.220 O.D.,1.843 I.D.,0.3120 Depth,OEM # B8TZ-6057T
	Exh	1958-81	SB1744E-1N	1.744 O.D.,1.445 I.D.,0.3120 Depth,OEM # B8QH-6057A
Valve	Int	1958-81	00531S	2.020 Head Diameter,Stellite Face
	Exh	1958-81	00530SN	1.634 Head Diameter,Stellite Face, Sodium Filled
		1958-81	01346S	1.635 Head Diameter,Stellite Face,Optional
Keeper	Both	1958-81	121-1009	1 SQ Bead Type
Stem Seal	Both	1958-81	122-1003	Umbrella Type,Nitrile Material,Umbrella Style
Guide	Exh	1970-81	140-7197	0.4375 I.D.,3.000 Length,0.6270 O.D.,Plain I.D. Conversion Guide
		1970-81	140-9197	0.4375 I.D.,3.000 Length,0.6270 O.D.,Spiral I.D. Conversion Guide
	Both	1958-81	140-9609	0.4375 I.D.,2.625 Length,0.6270 O.D.,Spiral I.D. Conversion Guide,Both 1958-69, Intake Only 1970-81

GM / INDUSTRIAL

Engine	Models	Line No.
4 Cylinder		
147 C.I., (2.4L), Gas, SOHC, 8 Valve, LG1, ""Vortec Industrial""	Forklift	1
181 C.I., (3.0L), GMI181, Gas, OHV, 8 Valve, ""Industrial""	Forklift	2

147 C.I., (2.4L), Gas, SOHC, 8 Valve, LG1, ""Vortec Industrial"" **GMI2.4 1**
 L4 147 CID **BORE-87.5mm/3.44""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-54	1 ¹³ / ₁₆ O.D.,1.405T I.D.,0.3150 Depth
	Exh	SB1500-62	1 ¹ / ₂ O.D.,1.220T I.D.,0.3100 Depth
Valve	Int	13168	1.646 Head Diameter,OEM # 1584195, 90220121
	Exh	13169S	1.437 Head Diameter,Stellite Face,OEM # 1584196, 1702642, 90323756
Stem Seal	Both	122-1073	Positive Type,Viton Material,Metal Clad Style,OEM # 94656542
Guide	Both	140-8039	0.2771 I.D.,1.790 Length,0.4342 O.D.,OEM # 90108699
Spring	Both	160-1576	1.795 Length,OEM # 1584200, 93385865
Lifter	Both	VL109	Hydraulic Lash Adjuster Type,OEM # 1584508, 5233315
Rocker Components	Both	180-1028	Cam Follower

181 C.I., (3.0L), GMI181, Gas, OHV, 8 Valve, ""Industrial"" **GMI3.0 2**
 L4 181 CID **BORE - 101.6mm/4.00""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth

GM / INDUSTRIAL (Cont'd)

2 181 C.I., (3.0L), GMI181, Gas, OHV, 8 Valve, ""Industrial"" GMI3.0
 (cont.) L4 181 CID BORE - 101.6mm/4.00""

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1562-1N	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth
Valve	Int	01193	1.720 Head Diameter, OEM # 244909
	Exh	01294S	1.500 Head Diameter, Stellite Face, OEM # 381250
Keeper	Both	121-1003	1 SQ Bead Type, OEM # 1377110
Stem Seal	Both	122-1043	O-Ring Type, Nitrile Material, O-Ring Style, OEM # 145173
Spring	Both	160-1125	2.050 Length, W/ Damper, OEM # 145172
Push Rod	Both	192-1330	9.682 Length, OEM # 1354047

GM / PASSENGER CAR

Engine	Models	Line No.
3 Cylinder		
993cc, (1.0L), SOHC, GAS, CARB, 6 Valve, Vin 5, M, ""G10 Suzuki"" (1985-88)	Sprint	1
993cc, (1.0L), SOHC, GAS, FI, 6 Valve, Vin 2, ""G10 Suzuki TURBO"" (1987-88)	Sprint Turbo	2
993cc, (1.0L), SOHC, GAS, FI, 6 Valve, Vin 6, ""G10 Suzuki"" (1989-00)	Metro, Sprint	3
4 Cylinder		
1295cc, (1.3L), SOHC, GAS, FI, 8 Valve, Vin 9, ""G13BA Suzuki"" (1995-97)	Metro	4
1295cc, (1.3L), SOHC, GAS, FI, 16 Valve, Vin 2, ""G13BB Suzuki"" (1998-01)	Metro	5
83 C.I., (1.4L), DOHC, GAS, FI, 16 Valve, Vin 9, C, LUJ, ""Ecotec TURBO"" (2011-12)	Cruze	6
83 C.I., (1.4L), DOHC, GAS, FI, 16 Valve, Vin B, LUV, ""Ecotec TURBO"" (2012-20)	Cruze, Cruze Limited, Sonic	7
85 C.I., (1.4L), SOHC, GAS, CARB, 8 Valve, Vin I, G140 (1976-77)	Chevette	8
85 C.I., (1.4L), DOHC, GAS, FI, 16 Valve, Vin M, LE2, ""Ecotec TURBO"" (2016-19)	Cruze	9
85 C.I., (1.4L), DOHC, GAS, FI, 16 Valve, Vin P, LEX, ""Ecotec TURBO"" (2017-17)	Cruze	10
85 C.I., (1.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin 4, LUJ, ""Ecotec Hybrid"" (2011-16)	ELR, Volt	11
85 C.I., (1.4L), DOHC, GAS, FI, 16 Valve, Vin A, LV7, ""Ecotec"" (2016-21)	Spark	12
91 C.I., (1.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin 5, L3A, ""Ecotec Hybrid"" (2016-19)	Volt	13
91 C.I., (1.5L), DOHC, GAS, FI, 16 Valve, Vin T, LFV, ""Ecotec TURBO"" (2016-21)	Malibu	14
1471cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin 7, K, ""4XC1 Isuzu"" (1985-89)	Spectrum	15
1471cc, (1.5L), SOHC, GAS, FI, 8 Valve, Vin 9, ""4XC1 Isuzu TURBO"" (1987-89)	Spectrum	16
1588cc, (1.6L), SOHC, GAS, FI, 8 Valve, Vin 6 (1988-93)	LeMans	17
1588cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 6, ""4A-FE Toyota"" (1989-97)	Prizm	18

(Cont'd) GM / PASSENGER CAR

Engine	Models	Line No.
4 Cylinder		
1588cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 5, ""4A-GE Toyota"" (1988-92)	Nova, Prizm	19
1588cc, (1.6L), SOHC, GAS, CARB, 8 Valve, Vin 4, ""4A-LC Toyota"" (1985-88)	Nova	20
1588cc, (1.6L), SOHC, GAS, FI, 12 Valve, Vin 6, ""4XE1 Isuzu"" (1990-93)	Storm	21
1588cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 5, ""4XE1W Isuzu"" (1990-91)	Storm	22
98 C.I., (1.6L), SOHC, GAS, CARB, 8 Valve, Vin 9, C, E (1976-87)	Chevette	23
98 C.I., (1.6L), DOHC, GAS, FI, 16 Valve, Vin 6, L91, ""E-TEC II"" (2004-08)	Aveo, Aveo5	24
98 C.I., (1.6L), DOHC, DIESEL, FI, 16 Valve, Vin E, LH7, ""TURBO"" (2017-19)	Cruze	25
98 C.I., (1.6L), DOHC, GAS, FI, 16 Valve, Vin E, LXV, ""E-TEC II"" (2009-11)	Aveo, Aveo5, G3, G3 Wave	26
98 C.I., (1.6L), DOHC, GAS, FI, 16 Valve, Vin 5, LWC, ""Ecotec TURBO"" (2016-19)	Cascade	27
1788cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 8, ""7A-FE Toyota"" (1993-97)	Prizm	28
1794cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 8, ""1ZZ-FE Toyota"" (1998-08)	Prizm, Vibe	29
1795cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin L, ""2Z-ZGE Toyota High Output"" (2003-06)	Vibe GT	30
110 C.I., (1.8L), DOHC, GAS, FI, 16 Valve, Vin 1, 2H0, ""Ecotec"" (2008-09)	Astra	31
110 C.I., (1.8L), DOHC, FLEX, FI, 16 Valve, Vin H, LUW, ""Ecotec"" (2011-18)	Cruze, Cruze Limited, Sonic	32
110 C.I., (1.8L), DOHC, GAS, FI, 16 Valve, Vin G, LWE, ""Ecotec"" (2013-18)	Cruze, Cruze Limited, Sonic	33
110 C.I., (1.8L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin U, LKN, ""Ecotec Hybrid"" (2016-19)	Malibu	34
1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 8, LAY, ""2ZR-FE Toyota"" (2009-10)	Vibe	35
1809cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 8, ""4XF1 Isuzu"" (1992-93)	Storm	36
1816cc, (1.8L), SOHC, GAS, CARB, 8 Valve, Vin B, ""G180Z Isuzu"" (1976-79)	Opel	37
1819cc, (1.8L), OHV, DIESEL, FI, 8 Valve, Vin D, ""4FB1 Isuzu"" (1981-86)	Chevette	38
112 C.I., (1.8L), OHV, GAS, CARB, 8 Valve, Vin G (1982-82)	Cavalier	39
112 C.I., (1.8L), SOHC, GAS, FI, 8 Valve, Vin 0, ""Brazil"" (1982-86)	J2000, J2000 Sunbird, Sunbird	40
112 C.I., (1.8L), SOHC, GAS, FI, 8 Valve, Vin J, ""TURBO"" (1984-86)	J2000 Sunbird, Sunbird	41
116 C.I., (1.9L), DOHC, GAS, FI, 16 Valve, Vin 7, ""Saturn"" (1991-02)	SC, SC2, SL2, SW2	42
116 C.I., (1.9L), SOHC, GAS, FI, 8 Valve, Vin 8, 9, ""Saturn"" (1991-02)	SC1, SL, SL1, SW1	43
122 C.I., (2.0L), OHV, GAS, CARB, FI, 8 Valve, Vin B, P (1983-86)	Cavalier	44

GM / PASSENGER CAR (Cont'd)

Engine	Models	Line No.
4 Cylinder		
122 C.I., (2.0L), OHV, GAS, FI, 8 Valve, Vin 1 (1987-89)	Beretta, Cavalier, Corsica	45
122 C.I., (2.0L), SOHC, GAS, FI, 8 Valve, Vin H, ""Brazil"" (1992-94)	Sunbird	46
122 C.I., (2.0L), SOHC, GAS, FI, 8 Valve, Vin K, ""Brazil"" (1987-91)	LeMans, Sunbird	47
122 C.I., (2.0L), SOHC, GAS, FI, 8 Valve, Vin M, ""Brazil TURBO"" (1987-90)	Grand Am, Sunbird	48
122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin Z, ""E-TEC II"" (2004-07)	Optra	49
122 C.I., (2.0L), DOHC, FLEX, FI, 16 Valve, Vin V, LHU, ""Ecotec TURBO"" (2011-16)	Regal, Verano	50
122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin M, X, LNF, ""DI Ecotec TURBO"" (2007-10)	Cobalt, HHR, Sky, Solstice	51
122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin P, LSJ, ""Supercharged Ecotec"" (2004-07)	Cobalt SS, Ion Redline	52
122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin K, LSY, ""TURBO"" (2019-21)	CT4, CT5, CT6	53
122 C.I., (2.0L), DOHC, ELECTRIC/GAS, GAS, FI, 16 Valve, Vin X, LTG, ""Ecotec TURBO"" (2013-21)	ATS, Camaro, CT6, CTS, Malibu, Regal, Regal Sportback, Regal TourX	54
134 C.I., (2.2L), OHV, GAS, FI, 8 Valve, Vin 4, G, LN2 (1990-02)	Beretta, Cavalier, Century, Corsica, Cutlass Ciera, Lumina, Sunfire	55
134 C.I., (2.2L), DOHC, GAS, FI, 16 Valve, Vin D, F, L61, ""Ecotec"" (2000-08)	Alero, Cavalier, Classic, Cobalt, G5, Grand Am, HHR, Ion, L100, L200, L300, LS, LS1, LW1, LW200, Malibu, Pursuit, Sunfire	56
134 C.I., (2.2L), DOHC, FLEX, GAS, FI, 16 Valve, Vin 5, B, H, W, LAP, LE8, ""Ecotec"" (2009-11)	Cobalt, G5, HHR	57
138 C.I., (2.3L), DOHC, GAS, FI, 16 Valve, Vin D, ""Quad 4"" (1988-95)	Achieva, Cavalier, Cutlass Calais, Cutlass Supreme, Grand Am, Grand Prix, Sunfire	58
138 C.I., (2.3L), SOHC, GAS, FI, 8 Valve, Vin 3 (1992-94) . . .	Achieva, Grand Am, Skylark	59
140 C.I., (2.3L), SOHC, GAS, CARB, 8 Valve, Vin A, B (1971-77)	Monza, Vega	60
140 C.I., (2.3L), DOHC, GAS, FI, 16 Valve, Vin A, ""Quad 4"" (1989-94)	Achieva, Beretta, Cutlass Calais, Cutlass Supreme, Grand Am . .	61
2362cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin 0, LAX, ""Toyota 2AZ-FE"" (2009-10)	Vibe	62
145 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin C, LAF, ""Ecotec"" (2010-11)	Allure, LaCrosse, Regal	63
145 C.I., (2.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin 5, LAT, ""Ecotec Hybrid"" (2007-09)	Aura Hybrid, Malibu Hybrid""	64
145 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin 0, 1, B, P, LE5, ""Ecotec"" (2006-12)	Aura, Cobalt, G5, G6, HHR, Ion, Malibu, Pursuit, Sky, Solstice . .	65
145 C.I., (2.4L), DOHC, FLEX, FI, 16 Valve, Vin 0, U, V, LE9, ""Ecotec"" (2009-12)	G6, HHR, Malibu	66
145 C.I., (2.4L), DOHC, FLEX, FI, 16 Valve, Vin K, LEA, ""Ecotec"" (2012-17)	Regal, Verano	67
145 C.I., (2.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin R, LUK, ""Ecotec Hybrid"" (2012-16)	Impala, LaCrosse, Malibu, Regal	68
146 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin T, ""Oldsmobile"" (1996-02)	Achieva, Alero, Cavalier, Grand Am, Malibu, Skylark, Sunfire . . .	69

(Cont'd) GM / PASSENGER CAR

Engine	Models	Line No.
4 Cylinder		
150 C.I., (2.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin Z, LHN, ""Hybrid"" (2018-19)	LaCrosse	70
151 C.I., (2.5L), OHV, GAS, CARB, 8 Valve, Vin V (1977-80)	Astre, Phoenix, Sunbird, Ventura	71
151 C.I., (2.5L), OHV, GAS, CARB, 8 Valve, Vin 5, F, V (1980-83)	6000, Firebird, Phoenix, Sunbird	72
151 C.I., (2.5L), OHV, GAS, CARB, 8 Valve, Vin 1, ""California"" (1978-79)	Sunbird	73
151 C.I., (2.5L), OHV, GAS, CARB, 8 Valve, Vin 9 (1979-79)	Sunbird	74
151 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin 2 (1982-86)	Camaro, Firebird	75
151 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin R, ""Pontiac"" (1982-91)	6000, Celebrity, Century, Citation, Citation II, Cutlass Ciera, Cutlass Cruiser, Fiero, Lumina, Omega, Phoenix, Skylark	76
151 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin U (1985-91)	Calais, Cutlass Calais, Grand Am, Skylark, Somerset, Somerset Regal	77
153 C.I., (2.5L), OHV, GAS, CARB, 8 Valve (1962-70)	Chevy II, Nova	78
153 C.I., (2.5L), DOHC, FLEX, GAS, FI, 16 Valve, Vin A, LCV, ""Ecotec"" (2013-19)	ATS, Impala, Malibu, Malibu Limited	79
153 C.I., (2.5L), DOHC, GAS, FI, 16 Valve, Vin L, LKW, ""Ecotec"" (2014-15)	Impala, Malibu	80
6 Cylinder		
170 C.I., (2.8L), DOHC, GAS, FI, 24 Valve, Vin T, LP1, ""High Feature V6"" (2005-07)	CTS	81
173 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, Vin 1, 7, X, Z (1980-84)	Camaro, Celebrity, Century, Citation, Citation II, Skylark	82
173 C.I., (2.8L), OHV, GAS, FI, 12 Valve, Vin S, W (1985-89)	Beretta, Camaro, Cavalier, Celebrity, Citation II, Corsica	83
181 C.I., (3.0L), OHV, GAS, CARB, 12 Valve, Vin E (1982-84)	Century	84
181 C.I., (3.0L), OHV, GAS, FI, 12 Valve, Vin L (1985-88)	LeSabre, Skylark, Somerset, Somerset Regal	85
181 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin R (1997-05) . . .	Catera, L300, LS2, LW2, LW300	86
182 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin G, Y, LF1, ""High Feature V6"" (2010-11)	Allure, CTS, LaCrosse	87
182 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin 5, LFW, ""High Feature V6"" (2012-14)	CTS	88
182 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin 6, LGW, ""TURBO"" (2016-19)	CT6	89
189 C.I., (3.1L), OHV, GAS, FI, 12 Valve, Vin T (1988-94)	6000, Beretta, Camaro, Cavalier, Celebrity, Corsica, Cutlass Supreme, Firebird, Grand Prix, Lumina, Regal, Sunbird, Tempest	90
189 C.I., (3.1L), OHV, GAS, FI, 12 Valve, Vin V, LG5, ""TURBO"" (1989-90)	Grand Prix	91
189 C.I., (3.1L), OHV, FLEX, FI, 12 Valve, Vin W (1993-93)	Lumina	92
189 C.I., (3.1L), OHV, GAS, FI, 12 Valve, Vin M, ""Aluminum Casting"" (1993-99)	Achieva, Beretta, Century, Corsica, Cutlass, Cutlass Ciera, Cutlass Cruiser, Cutlass Supreme, Grand Am, Grand Prix, Lumina, Malibu, Monte Carlo, Regal, Skylark	93
189 C.I., (3.1L), OHV, GAS, FI, 12 Valve, Vin J (2000-05)	Century, Grand Prix, Lumina, Malibu	94
194 C.I., (3.2L), OHV, GAS, CARB, 12 Valve (1962-67)	Chevelle, Chevy II, Malibu	95
196 C.I., (3.2L), OHV, GAS, CARB, 12 Valve, Vin C, ""Buick"" (1978-79)	Century, Regal	96

GM / PASSENGER CAR (Cont'd)

Engine	Models	Line No.
6 Cylinder		
197 C.I., (3.2L), DOHC, GAS, FI, 24 Valve, Vin N, LA3 (2003-04)	Cadillac CTS	97
200 C.I., (3.3L), OHV, GAS, CARB, 12 Valve, Vin M (1978-79)	Malibu, Monte Carlo	98
204 C.I., (3.3L), OHV, GAS, FI, 12 Valve, Vin N (1989-93)	Century, Skylark	99
207 C.I., (3.4L), OHV, GAS, FI, 12 Valve, Vin S (1993-95)	Camaro, Firebird	100
207 C.I., (3.4L), DOHC, GAS, FI, 24 Valve, Vin X (1991-97)	Cutlass Supreme, Grand Prix, Lumina, Monte Carlo	101
207 C.I., (3.4L), OHV, GAS, FI, 12 Valve, Vin E (1999-05)	Alero, Grand Am, Impala, Monte Carlo	102
213 C.I., (3.5L), OHV, GAS, FI, 12 Valve, Vin N, LZ4 (2006-10)	Aura, G6, Impala, Malibu, Monte Carlo	103
213 C.I., (3.5L), OHV, FLEX, FI, 12 Valve, Vin K, LZE (2006-11)	G6, Impala, Malibu, Monte Carlo	104
213 C.I., (3.5L), OHV, GAS, FI, 12 Valve, Vin 8, LK9 (2004-06)	G6, Malibu	105
214 C.I., (3.5L), DOHC, GAS, FI, 24 Valve, Vin H, LX5, ""Oldsmobile Northstar"" (1999-02)	Aurora, Intrigue	106
215 C.I., (3.5L), OHV, GAS, CARB, 12 Valve, ""Pontiac"" (1964-65)	LeMans, Tempest	108
216 C.I., (3.5L), OHV, GAS, CARB, 12 Valve, ""Chevrolet"" (1937-53)	Bel Air, Fleetline, Fleetmaster, JA Master Deluxe, Master, Master 85, One-Fifty Series, Special Deluxe, Styleline Deluxe, Styleline Special, Stylemaster Series	109
217 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin 8, LF3, ""High Feature V6 TURBO"" (2014-19)	CTS VSPORT, XTS VSPORT	110
217 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin Y, LF4, ""High Feature V6 TURBO"" (2016-19)	ATS	111
217 C.I., (3.6L), DOHC, BI-FUEL, FI, 24 Valve, Vin N, LFR, ""High Feature V6"" (2015-17)	Impala	112
217 C.I., (3.6L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 3, LFX, ""High Feature V6"" (2012-20)	ATS, Camaro, Caprice, CTS, Impala, Impala Limited, LaCrosse, XTS	113
217 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin D, V, LLT, ""High Feature V6"" (2008-11)	Allure, Camaro, CTS, LaCrosse, STS	114
217 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin 7, LY7, ""High Feature V6"" (2004-12)	Allure, Aura, CTS, G6, G8, LaCrosse, Malibu, STS	115
222 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin S, LGX, ""High Feature V6"" (2016-21)	ATS, Camaro, CT6, CTS, LaCrosse, Regal Sportback	116
225 C.I., (3.7L), OHV, GAS, CARB, 12 Valve (1964-67)	Skylark, Special, Sportwagon	117
229 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 9, K (1980-84)	Camaro, Caprice, Grand LeMans, Impala, LeMans, Malibu, Monte Carlo	118
230 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, ""Chevrolet"" (1963-70)	Bel Air, Biscayne, Camaro, Chevelle, Chevy II, Impala, Malibu, Nova	119
231 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin A, C (1975-87)	Bonneville, Camaro, Caprice, Catalina, Century, Cutlass, Cutlass Calais, Cutlass Cruiser, Cutlass Salon, Cutlass Supreme, Delta 88, Firebird, Grand Am, Grand LeMans, Grand Prix, Impala, Laurentian, LeMans, LeSabre, Malibu, Monte Carlo, Monza, Omega, Parisienne, Phoenix, Regal, Skyhawk, Skylark, Starfire, Sunbird, Ventura	120

(Cont'd) GM / PASSENGER CAR

Engine	Models	Line No.
6 Cylinder		
231 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin G, ""Buick TURBO"" (1978-78)	Regal	121
231 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 2, ""Buick California"" (1978-79)	Century, Regal, Skyhawk	122
231 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 3, 8, ""Buick TURBO"" (1978-83)	Century, LeSabre, Monte Carlo, Regal, Riviera	123
231 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin 7, 9, ""Buick TURBO"" (1984-87)	Regal, Riviera	124
231 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin 2, 3, B, C, K, L (1986-09)	Allure, Bonneville, Camaro, Century, Electra, Firebird, Grand Prix, Impala, LaCrosse, LeSabre, Lucerne, Lumina, Monte Carlo, Park Avenue, Reatta, Regal, Riviera	125
231 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin 1, 4, ""Supercharged"" (1991-07)	88, 98, Bonneville, Grand Prix, Impala, LSS, Monte Carlo, Park Avenue, Regal, Riviera	126
235 C.I., (3.8L), OHV, GAS, CARB, 12 Valve (1950-62)	Bel Air, Biscayne, Brookwood, Corvette, Del Ray, Fleetline, Impala, Kingswood, Nomad, One-Fifty Series, Parkwood, Styleline Deluxe, Styleline Special, Two-Ten Series, Yeoman	127
237 C.I., (3.9L), OHV, FLEX, FI, 12 Valve, Vin M, LGD (2009-11)	Impala, Lucerne	128
237 C.I., (3.9L), OHV, GAS, FI, 12 Valve, Vin R, LZ8, ""AFM"" (2007-07)	Impala	129
237 C.I., (3.9L), OHV, GAS, FI, 12 Valve, Vin 1, LZ9 (2006-10)	G6, Impala, Lucerne, Malibu, Monte Carlo	130
237 C.I., (3.9L), OHV, FLEX, FI, 12 Valve, Vin 3, LZG, ""AFM"" (2008-08)	Impala	131
250 C.I., (4.1L), OHV, GAS, CARB, 12 Valve, Vin D (1966-79)	Bel Air, Biscayne, Brookwood, Camaro, Caprice, Chevelle, Chevy II, Estate, Impala, Malibu, Nova	133
252 C.I., (4.1L), OHV, GAS, CARB, 12 Valve, Vin 4, ""Buick"" (1980-84)	DeVille, Eldorado, Electra, Fleetwood, LeSabre, Regal, Riviera, Seville	135
260 C.I., (4.3L), OHV, DIESEL, FI, 12 Valve, Vin T, V, ""Oldsmobile"" (1982-85)	98, Cutlass Calais, Cutlass Ciera, Cutlass Supreme	138
262 C.I., (4.3L), OHV, GAS, FI, 12 Valve, Vin Z (1985-93)	Bonneville, Caprice, Commercial Chassis, Grand Prix, Impala, Monte Carlo, Parisienne	140
8 Cylinder		
215 C.I., (3.5L), OHV, GAS, CARB, 16 Valve, ""Buick"" (1961-63)	Skylark, Special	107
244 C.I., (4.0L), DOHC, GAS, FI, 32 Valve, Vin C, L47, ""Oldsmobile Northstar "" (1995-03)	Aurora	132
250 C.I., (4.1L), OHV, GAS, FI, 16 Valve, Vin 7, 8, ""Cadillac"" (1982-88)	Allante, Commercial Chassis, DeVille, Eldorado, Fleetwood, Seville	134
255 C.I., (4.2L), DOHC, GAS, FI, 32 Valve, Vin J, LTA, ""Blackwing Twin TURBO"" (2019-20)	CT6	136
260 C.I., (4.3L), OHV, GAS, CARB, 16 Valve, Vin 8, F (1975-82)	Cutlass, Cutlass Calais, Cutlass Cruiser, Cutlass Salon, Cutlass Supreme, Cutlass Tiara, Delta 88, Omega	137
262 C.I., (4.3L), OHV, GAS, CARB, 16 Valve, Vin G (1975-76)	Monza, Nova	139

GM / PASSENGER CAR (Cont'd)

Engine	Models	Line No.
8 Cylinder		
265 C.I., (4.3L), OHV, GAS, CARB, 16 Valve (1955-57)	Bel Air, Corvette, Del Ray, Nomad, One-Fifty Series, Two-Ten Series	141
265 C.I., (4.3L), OHV, GAS, CARB, 16 Valve, Vin S, ""Pontiac"" (1981-81)	Bonneville, Catalina, Firebird, Grand LeMans, Grand Prix, Laurentian, LeMans, Parisienne	142
265 C.I., (4.3L), OHV, GAS, FI, 16 Valve, Vin W, ""Chevrolet Vortec HP"" (1994-96)	Caprice	143
267 C.I., (4.4L), OHV, GAS, CARB, 16 Valve, Vin J, ""Chevrolet"" (1979-82)	Camaro, Caprice, Impala, Malibu, Monte Carlo	144
267 C.I., (4.4L), DOHC, GAS, FI, 32 Valve, Vin D, LC3, ""Cadillac Northstar Supercharged"" (2006-09)	STS-V, XLR-V	145
273 C.I., (4.5L), OHV, GAS, FI, 16 Valve, Vin 3, 5, 8, ""Cadillac"" (1988-92)	Allante, Commercial Chassis, DeVille, Eldorado, Fleetwood, Seville	146
281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin 9, S, L37, ""Cadillac Northstar"" (1993-11)	Allante, DeVille, DTS, Eldorado, Lucerne, Seville	147
281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin 6, Y, LD8, ""Cadillac Northstar"" (1993-11)	Bonneville, DeVille, DTS, Eldorado, Lucerne, Seville	148
281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin A, LH2, ""Cadillac Northstar"" (2004-10)	STS, XLR	149
283 C.I., (4.6L), OHV, GAS, CARB, 16 Valve (1957-67)	Bel Air, Biscayne, Brookwood, Caprice, Chevelle, Chevy II, Corvette, Del Ray, Impala, Kingswood, Malibu, Nomad, One-Fifty Series, Parkwood, Two-Ten Series, Yeoman	150
300 C.I., (4.9L), OHV, GAS, CARB, 16 Valve, ""Buick"" (1964-67)	Estate Wagon, LeSabre, Skylark, Special, Sportwagon	151
300 C.I., (4.9L), OHV, GAS, FI, 16 Valve, Vin B, ""Cadillac"" (1991-95)	60 Special, Commercial Chassis, DeVille, Eldorado, Fleetwood, Seville	152
301 C.I., (4.9L), OHV, GAS, CARB, 16 Valve, Vin W, Y (1977-81)	Bonneville, Catalina, Firebird, Grand Am, Grand LeMans, Grand Prix, Grand Safari, LeMans, Ventura	153
302 C.I., (4.9L), OHV, GAS, CARB, 16 Valve, ""Chevrolet"" (1967-69)	Camaro	154
305 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, Vin G, H, Q, U, LG3, LG4, ""Chevrolet"" (1976-88)	Bel Air, Bonneville, Camaro, Caprice, Catalina, Century, Corvette, Cutlass, Cutlass Calais, Cutlass Cruiser, Cutlass Salon, Cutlass Supreme, Firebird, Grand Am, Grand LeMans, Grand Prix, Impala, Laguna, Laurentian, LeMans, LeSabre, Malibu, Monte Carlo, Monza, Nova, Omega, Parisienne, Phoenix, Regal, Skylark, Starfire, Sunbird, Ventura	155
305 C.I., (5.0L), OHV, GAS, FI, 16 Valve, Vin E, F, L03, LB9, ""Chevrolet"" (1985-93)	Camaro, Caprice, Commercial Chassis	156
307 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, VIN F (1968-73)	Acadian, Beaumont, Bel Air, Biscayne, Brookwood, Camaro, Caprice, Chevelle, Chevy II, Estate, Impala, Kingswood, Laguna, Laurentian, Malibu, Nova, Parisienne, Strato-Chief, Townsman, Ventura	157
307 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, Vin 9, ""Oldsmobile"" (1984-87)	Brougham, Cutlass Calais, Cutlass Salon, Cutlass Supreme	158
307 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, Vin Y, ""Oldsmobile"" (1980-90)	98, Bonneville, Brougham, Caprice, Catalina, Custom Cruiser, Cutlass Calais, Cutlass Cruiser, Cutlass Salon, Cutlass Supreme, Delta 88, Electra, Estate Wagon, Fleetwood, Laurentian, LeSabre, Parisienne, Regal, Riviera, Safari, Toronado	159

(Cont'd) GM / PASSENGER CAR

Engine	Models	Line No.
8 Cylinder		
323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin C , LS4, ""AFM Vortec"" (2005-09)	Allure, Grand Prix, Impala, LaCrosse, Monte Carlo	160
324 C.I., (5.3L), OHV, GAS, CARB, 16 Valve, ""Oldsmobile"" (1954-56)	88, 98, Deluxe 88, Starfire, Super 88	161
326 C.I., (5.3L), OHV, GAS, CARB, 16 Valve, ""Pontiac"" (1963-67)	Firebird, LeMans, Tempest	162
327 C.I., (5.3L), OHV, GAS, CARB, 16 Valve, ""Chevrolet Standard"" (1962-69)	Bel Air, Biscayne, Brookwood, Camaro, Caprice, Chevelle, Chevy II, Corvette, Estate, Impala, Kingswood, Malibu, Townsman . . .	163
327 C.I., (5.3L), OHV, GAS, CARB, FI, 16 Valve, ""Chevrolet HP/SHP"" (1962-69)	Bel Air, Biscayne, Brookwood, Camaro, Caprice, Chevelle, Chevy II, Corvette, Estate, Impala, Kingswood, Malibu, Townsman . . .	164
330 C.I., (5.4L), OHV, GAS, CARB, 16 Valve, ""Oldsmobile"" (1964-67)	442, Cutlass, Cutlass Supreme, Delmont 88, F85, Jetstar 88, Vista Cruiser	165
340 C.I., (5.6L), OHV, GAS, CARB, 16 Valve, ""Buick"" (1966-67)	Gran Sport, LeSabre, Skylark, Special, Sportwagon	166
346 C.I., (5.7L), GAS, CARB, 16 Valve, ""Cadillac"" (1946-48)	Commercial Chassis, Series 60 Special Fleetwood, Series 61, Series 62, Series 75 Fleetwood	167
350 C.I., (5.7L), OHV, GAS, CARB, 16 Valve, Vin L, ""Chevrolet"" (1967-82)	Bel Air, Biscayne, Brookwood, Camaro, Caprice, Chevelle, Chevy II, Corvette, Estate, Impala, Kingswood, Laguna, Malibu, Monte Carlo, Nova, Townsman	168
350 C.I., (5.7L), OHV, GAS, CARB, 16 Valve, ""Pontiac"" (1968-77)	Bonneville, Catalina, Firebird, Grand Am, Grand LeMans, Grand Prix, Grand Safari, Laurentian, LeMans, Parisienne, Tempest, Ventura	169
350 C.I., (5.7L), OHV, GAS, CARB, 16 Valve, Vin H, J, X, ""Buick"" (1968-80)	Apollo, Bonneville, Catalina, Centurion, Century, Electra, Estate Wagon, Firebird, Grand Am, Grand LeMans, Grand Safari, GS, GS 350, LeMans, LeSabre, Regal, Riviera, Skylark, Special, Sportwagon, Tempest, Ventura	170
350 C.I., (5.7L), OHV, GAS, CARB, 16 Valve, Vin G, H, J, K, R, ""Oldsmobile Rocket"" (1968-80)	98, Custom Cruiser, Cutlass, Cutlass Calais, Cutlass Cruiser, Cutlass Salon, Cutlass Supreme, Cutlass Tiara, Delmont 88, Delta 88, F85, Omega, Toronado, Vista Cruiser	171
350 C.I., (5.7L), OHV, DIESEL, FI, 16 Valve, Vin N, ""Oldsmobile"" (1978-85)	98, Custom Cruiser, Cutlass, Cutlass Calais, Cutlass Cruiser, Cutlass Salon, Cutlass Supreme, Delta 88, Toronado	172
350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin 7, 8 (1982-93) .	Camaro, Caprice, Commercial Chassis, Corvette	173
350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin S, LS6, ""Z06"" (2001-05)	Corvette Z06, CTS-V	174
350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin G, LS1 (1997-04)	Camaro, Corvette, Firebird	175
350 C.I., (5.7L), DOHC, GAS, FI, 32 Valve, Vin J, LT5, ""ZR-1"" (1990-95)	Corvette ZR-1	176
350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin P, LT1, ""Cast Iron Heads"" (1994-96)	Caprice, Fleetwood, Impala, Roadmaster	177
350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin P, LT1, ""Aluminum Heads"" (1992-97)	Camaro, Caprice, Corvette, Firebird, Impala	178
350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin 5, LT4, ""W/ Manual Trans."" (1996-96)	Corvette W/ Manual Trans.	179

GM / PASSENGER CAR (Cont'd)

Engine	Models	Line No.
8 Cylinder		
364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin Y, L76, ""AFM Vortec"" (2008-09)	G8	180
364 C.I., (6.0L), OHV, FLEX, FI, 16 Valve, Vin 2, L77, ""AFM Vortec"" (2011-17)	Caprice	181
364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin U, LS2, ""Vortec"" (2005-07)	Corvette, CTS, GTO	182
365 C.I., (6.0L), OHV, GAS, CARB, 16 Valve, ""Cadillac"" (1956-58)	Commercial Chassis, DeVille, Eldorado, Series 60 Fleetwood, Series 62, Series 70 Fleetwood Eldorado, Series 75 Fleetwood	183
368 C.I., (6.0L), OHV, GAS, CARB, 16 Valve, Vin 6, ""Cadillac"" (1980-84)	Commercial Chassis, DeVille, Fleetwood	184
368 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin 9, ""Cadillac"" (1980-84)	DeVille, Eldorado, Fleetwood, Seville	185
371 C.I., (6.1L), OHV, GAS, CARB, 16 Valve, ""Oldsmobile"" (1957-60)	88, 98, Dynamic, Fiesta, Golden Rocket 88, Starfire, Super 88	186
376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin J, L99, ""AFM W/Auto Trans."" (2010-15)	Camaro SS W/ Auto Trans.	187
376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin W, LS3, ""AFM W/Auto Trans."" (2008-17)	Corvette W/Auto Trans., G8 W/Auto Trans., SS W/Auto Trans.	188
376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin W, LS3, ""AFM W/Manual Trans."" (2008-17)	Camaro, Corvette, G8, SS	189
376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin R, T, LS9, ""Supercharged"" (2009-13)	Corvette	190
376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin P, LSA, ""Supercharged"" (2009-15)	CTS-V	191
376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin P, LSA, ""ZL1 Supercharged"" (2012-15)	Camaro	192
376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin 7, LT1, ""AFM"" (2014-21)	Camaro, Corvette	193
376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin 6, LT4, ""AFM Supercharged"" (2015-21)	Camaro, Corvette, CTS	194
376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin 9, LT5, ""Supercharged"" (2019-19)	Corvette	195
389 C.I., (6.4L), OHV, GAS, CARB, 16 Valve, ""Pontiac"" (1959-66)	Bonneville, Catalina, Grand Prix, GTO, Star Chief, Tempest, Ventura	196
390 C.I., (6.4L), OHV, GAS, CARB, 16 Valve, ""Cadillac"" (1959-63)	Commercial Chassis, DeVille, Eldorado, Series 60 Fleetwood, Series 62, Series 75 Fleetwood	197
394 C.I., (6.5L), OHV, GAS, CARB, 16 Valve, ""Oldsmobile"" (1959-64)	98, Classic 98, Dynamic, Fiesta, Jetstar I, Starfire, Super 88	198
396 C.I., (6.5L), OHV, GAS, CARB, 16 Valve, ""Standard"" (1965-69)	Bel Air, Biscayne, Brookwood, Camaro, Caprice, Chevelle, Chevy II, Corvette, Estate, Impala, Kingswood, Malibu, Nova, Townsman	199
396 C.I., (6.5L), OHV, GAS, CARB, 16 Valve ""Special HP"" (1965-69)	Bel Air, Biscayne, Brookwood, Camaro, Caprice, Chevelle, Chevy II, Corvette, Estate, Impala, Kingswood, Malibu, Nova, Townsman	200
396 C.I., (6.5L), OHV, GAS, CARB, 16 Valve, ""Big Block"" (1970-72)	Chevelle, Nova	201
400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, ""Oldsmobile HP"" (1965-69)	442, Cutlass, F85, Vista Cruiser	202

(Cont'd) GM / PASSENGER CAR

Engine	Models	Line No.
8 Cylinder		
400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, ""Buick"" (1965-69)	Gran Sport, GS 400, Skylark, Sportwagon .....	.203
400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin N, P, R, S, T, X, Y, Z, ""Pontiac"" (1967-79)	Bonneville, Catalina, Executive, Firebird, Grand Am, Grand LeMans, Grand Prix, Grand Safari, Grandville, GTO, Laurentian, LeMans, Parisienne, Strato-Chief, Tempest .....	.204
400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, ""Oldsmobile Standard"" (1968-69)	442, Cutlass, Vista Cruiser .....	.205
400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin R, U, ""Chevrolet"" (1970-76)	Bel Air, Biscayne, Brookwood, Caprice, Chevelle, Estate, Impala, Kingswood, Laguna, Malibu, Monte Carlo, Townsman .....	.206
401 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, ""Buick"" (1959-66)	Electra, Estate Wagon, Gran Sport, Invicta, LeSabre, Riviera, Skylark, Wildcat .....	.207
402 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin S, U, ""Chevrolet"" (1970-72)	Bel Air, Biscayne, Brookwood, Camaro, Caprice, Chevelle, Estate, Impala, Kingswood, Monte Carlo, Nova, Townsman .....	.208
403 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin K, ""Oldsmobile"" (1977-79)	98, Custom Cruiser, Cutlass, Cutlass Salon, Cutlass Supreme, Delta 88, Toronado .....	.209
409 C.I., (6.7L), OHV, GAS, CARB, 16 Valve, ""Chevrolet"" (1961-65)	Bel Air, Biscayne, Brookwood, Impala, Kingswood, Nomad, Parkwood .....	.210
421 C.I., (6.9L), OHV, GAS, CARB, 16 Valve, ""Pontiac"" (1963-64)	Bonneville, Catalina, Grand Prix, Star Chief .....	.211
425 C.I., (7.0L), OHV, GAS, CARB, 16 Valve, ""Oldsmobile"" (1965-67)	98, Delmont 88, Delta 88, Dynamic, Jetstar I, Starfire, Toronado	.212
425 C.I., (7.0L), OHV, GAS, CARB, FI, 16 Valve, Vin S, T, ""Cadillac"" (1977-79)	Commercial Chassis, DeVille, Eldorado, Fleetwood .....	.213
427 C.I., (7.0L), OHV, GAS, CARB, 16 Valve, ""Chevrolet Special HP"" (1966-69)	Bel Air, Biscayne, Brookwood, Camaro, Caprice, Corvette, Estate, Impala, Kingswood, Townsman .....	.214
427 C.I., (7.0L), OHV, GAS, CARB, 16 Valve (1966-69)	Bel Air, Biscayne, Brookwood, Camaro, Caprice, Corvette, Estate, Impala, Kingswood, Townsman .....	.215
427 C.I., (7.0L), OHV, GAS, FI, 16 Valve, Vin E, LS7, ""Z06"" (2006-15)	Camaro, Corvette .....	.216
428 C.I., (7.0L), OHV, GAS, CARB, 16 Valve, ""Pontiac"" (1967-69)	Bonneville, Catalina, Executive, Grand Prix .....	.217
429 C.I., (7.0L), OHV, GAS, CARB, 16 Valve, ""Cadillac"" (1964-67)	Calais, Commercial Chassis, DeVille, Eldorado, Fleetwood, Series 60 Fleetwood, Series 62, Series 75 Fleetwood .....	.218
430 C.I., (7.0L), OHV, GAS, CARB, 16 Valve, ""Buick"" (1967-69)	Electra, Riviera, Wildcat .....	.219
454 C.I., (7.4L), OHV, GAS, CARB, 16 Valve, Vin S, V, W, X, Y, Z (1970-76)	Bel Air, Biscayne, Brookwood, Caprice, Chevelle, Corvette, Estate, Impala, Kingswood, Laguna, Malibu, Monte Carlo, Nova, Townsman .....	.220
454 C.I., (7.4L), OHV, GAS, CARB, 16 Valve, ""Chevrolet Special HP"" (1970-76)	Bel Air, Biscayne, Brookwood, Caprice, Chevelle, Corvette, Estate, Impala, Kingswood, Laguna, Malibu, Monte Carlo, Nova, Townsman .....	.221

GM / PASSENGER CAR (Cont'd)

Engine	Models	Line No.
8 Cylinder		
455 C.I., (7.5L), OHV, GAS, CARB, 16 Valve, Vin R, S, T, ""Oldsmobile"" (1968-76)	442, 98, Custom Cruiser, Cutlass, Cutlass Salon, Cutlass Supreme, Cutlass Tiara, Delmont 88, Delta 88, F85, Toronado, Vista Cruiser	222
455 C.I., (7.5L), OHV, GAS, CARB, 16 Valve, Vin P, R, T, U, V, W, ""Buick"" (1970-76)	Centurion, Century, Electra, Estate Wagon, GS 455, LeSabre, Regal, Riviera, Skylark, Sportwagon, Wildcat	223
455 C.I., (7.5L), OHV, GAS, CARB, 16 Valve, ""Pontiac"" (1970-76)	Bonneville, Catalina, Executive, Firebird, Grand Am, Grand LeMans, Grand Prix, Grand Safari, Grandville, GTO, Laurentian, LeMans, Parisienne	224
472 C.I., (7.7L), OHV, GAS, CARB, 16 Valve, Vin 0, 1, 8, 9, R (1968-74)	Calais, Commercial Chassis, DeVille, Eldorado, Fleetwood . . .	225
500 C.I., (8.2L), OHV, GAS, CARB, FI, 16 Valve, Vin 0, 1, S (1970-76)	Calais, Commercial Chassis, DeVille, Eldorado, Fleetwood . . .	226

1 993cc, (1.0L), SOHC, GAS, CARB, 6 Valve, Vin 5, M, ""G10 Suzuki"" **GMC1.0-M5**
 1985-88 L3 61 CID **BORE - 74mm/2.91""**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1985-88	SB1562-77	1 ¹ / ₁₆ O.D., 1.170 I.D., 0.2670 Depth
	Exh	1985-88	SB1375-64	1 ³ / ₈ O.D., 1.000 I.D., 0.2800 Depth
Valve	Int	1985-88	10103	1.417 Head Diameter
	Exh	1985-88	10102S	1.181 Head Diameter, Stellite Face
Keeper	Both	1985-88	121-1061	1 RD Bead Type
Stem Seal	Both	1985-88	122-1142	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1985-88	140-8016	0.2757 I.D., 1.895 Length, 0.4758 O.D.

2 993cc, (1.0L), SOHC, GAS, FI, 6 Valve, Vin 2, ""G10 Suzuki TURBO"" **GMC1.0-2T**
 1987-88 L3 61 CID **BORE - 74mm/2.91""**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1987-88	SB1562-77	1 ¹ / ₁₆ O.D., 1.170 I.D., 0.2670 Depth
	Exh	1987-88	SB1375-64	1 ³ / ₈ O.D., 1.000 I.D., 0.2800 Depth
Valve	Int	1987-88	10103	1.417 Head Diameter
	Exh	1987-88	10102S	1.181 Head Diameter, Stellite Face
Keeper	Both	1987-88	121-1061	1 RD Bead Type
Stem Seal	Both	1987-88	122-1142	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1987-88	140-8016	0.2757 I.D., 1.895 Length, 0.4758 O.D.

3 993cc, (1.0L), SOHC, GAS, FI, 6 Valve, Vin 6, ""G10 Suzuki"" **GMC1.0-6**
 1989-00 L3 61 CID **BORE - 74mm/2.91""**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1989-00	SB1500-77	1 ¹ / ₂ O.D., 1.175T I.D., 0.2360 Depth
	Exh	1989-00	SB1187-52	1 ³ / ₁₆ O.D., 0.934T I.D., 0.2570 Depth
Valve	Int	1989-00	10169	1.378 Head Diameter
	Exh	1989-00	10170	1.102 Head Diameter
Keeper	Both	1989-00	121-1060	1 RD Bead Type
Stem Seal	Both	1989-00	122-1155	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1989-00	140-8324	0.2163 I.D., 1.260 Length, 0.4365 O.D.
Lifter	Both	1989-00	VL120	Hydraulic Bucket Type
Head Bolt Set	1989-97	220-1026	Torque To Yield, Services Engine	

(Cont'd) GM / PASSENGER CAR

993cc, (1.0L), SOHC, GAS, FI, 6 Valve, Vin 6, ""G10 Suzuki"" GMC1.0-6 **3**
 1989-00 L3 61 CID BORE - 74mm/2.91"" (cont.)

PART	YEARS	PART NO.	NOTES
Head Saver Shim	1989-00	230-2030	New Hgt. - 3.7500 - 3.7550

1295cc, (1.3L), SOHC, GAS, FI, 8 Valve, Vin 9, ""G13BA Suzuki"" GMC-G13BA **4**
 1995-97 L4 79 CID BORE - 74mm/2.91""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1995-97 1995-97	SB1562-77 SB1375-64	1 $\frac{1}{16}$ O.D.,1.170 I.D.,0.2670 Depth 1 $\frac{3}{8}$ O.D.,1.000 I.D.,0.2800 Depth
Valve	Int Exh	1995-97 1995-97	10103 10102S	1.417 Head Diameter 1.181 Head Diameter,Stellite Face
Keeper	Both	1995-97	121-1061	1 RD Bead Type,W/ .273 Stem Dia.
Stem Seal	Both	1995-97	122-1142	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1995-97	140-8016	0.2757 I.D.,1.895 Length,0.4758 O.D.
Head Saver Shim		1995-97	230-2031	New Hgt. - 3.7500 - 3.7550; Min. Hgt. - 3.7400

1295cc, (1.3L), SOHC, GAS, FI, 16 Valve, Vin 2, ""G13BB Suzuki"" GMC-G13BB **5**
 1998-01 L4 79 CID BORE - 74mm/2.91""

PART	YEARS	PART NO.	NOTES	
Valve	Int Exh	1998-01 1998-01	10516 10517	1.149 Head Diameter 0.986 Head Diameter
Keeper	Both	1998-01	121-1060	1 RD Bead Type
Stem Seal	Both	1998-01	122-1155	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1998-01	140-8324	0.2163 I.D.,1.260 Length,0.4365 O.D.

83 C.I., (1.4L), DOHC, GAS, FI, 16 Valve, Vin 9, C, LUJ, ""Ecotec TURBO"" GMC1.4-LUJ **6**
 2011-12 L4 83 CID BORE - 72.5mm/2.85""

PART	YEARS	PART NO.	NOTES	
Valve	Int Exh	2011-12 2011-12	13367 13368S	1.102 Head Diameter 0.984 Head Diameter,Stellite Face
Keeper	Both	2011-12	121-1131	3 RD Bead Type
Stem Seal	Both	2011-12	122-1468	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2011-12 2011-12	140-3179 140-3213	0.1966 I.D.,1.460 Length,0.3952 O.D. 0.1966 I.D.,1.540 Length,0.3952 O.D.,NOTE: Alternative Length
Spring	Both	2011-12	160-1646	1.665 Length
Lifter	Both	2011-12	VL570	Hydraulic Lash Adjuster Type
Rocker Components	Both	2011-12	180-1339	Roller Cam Follower
Head Saver Shim		2011-12	230-2169	New Hgt. - 4.961"" - Min. Hgt. N/A

83 C.I., (1.4L), DOHC, GAS, FI, 16 Valve, Vin B, LUV, ""Ecotec TURBO"" GMC1.4-LUV **7**
 2012-20 L4 83 CID BORE - 72.5mm/2.85""

PART	YEARS	PART NO.	NOTES	
Valve	Int Exh	2012-20 2012-20	13367 13368S	1.102 Head Diameter 0.984 Head Diameter,Stellite Face
Keeper	Both	2012-20	121-1131	3 RD Bead Type
Stem Seal	Both	2012-20	122-1468	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2012-20 2012-20	140-3179 140-3213	0.1966 I.D.,1.460 Length,0.3952 O.D. 0.1966 I.D.,1.540 Length,0.3952 O.D.,NOTE: Alternative Length
Spring	Both	2012-20	160-1646	1.665 Length

GM / PASSENGER CAR (Cont'd)

7 83 C.I., (1.4L), DOHC, GAS, FI, 16 Valve, Vin B, LUV, ""Ecotec TURBO"" GMC1.4-LUV
(cont.) 2012-20 L4 83 CID BORE - 72.5mm/2.85""

PART	YEARS	PART NO.	NOTES	
Lifter	Both	2012-20	VL570	Hydraulic Lash Adjuster Type
Rocker Components	Both	2012-20	180-1339	Roller Cam Follower
Head Saver Shim		2012-20	230-2169	New Hgt. - 4.961"" - Min. Hgt. N/A

8 85 C.I., (1.4L), SOHC, GAS, CARB, 8 Valve, Vin I, G140 GMC1.4
1976-77 L4 85 CID BORE - 52.9mm/3.23""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1976-77	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1976-77	SB1375-1	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material
Keeper	Both	1976-77	121-1021	1 RD Bead Type
Stem Seal	Both	1976-77	122-1052	Positive Type, Viton Material, Ring & Band Style
Guide	Int	1976-77	140-9584	0.3155 I.D., 1.563 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Lifter	Both	1976-77	VL109	Hydraulic Lash Adjuster Type

9 85 C.I., (1.4L), DOHC, GAS, FI, 16 Valve, Vin M, LE2, ""Ecotec TURBO"" GMC1.4-LE2
2016-19 L4 85 CID BORE - 74mm/2.91""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2016-19	121-1131	3 RD Bead Type
Lifter	Both	2016-19	VL175	Hydraulic Lash Adjuster Type

10 85 C.I., (1.4L), DOHC, GAS, FI, 16 Valve, Vin P, LEX, ""Ecotec TURBO"" GMC1.4-LEX
2017-17 L4 85 CID BORE - 74mm/2.91""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2017-17	121-1131	3 RD Bead Type
Lifter	Both	2017-17	VL175	Hydraulic Lash Adjuster Type

11 85 C.I., (1.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin 4, LUU, ""Ecotec Hybrid"" GMC1.4-LUU
2011-16 L4 85 CID BORE - 73.4mm/2.89""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2011-16	13367	1.102 Head Diameter
	Exh	2011-16	13369	0.984 Head Diameter
Keeper	Both	2011-16	121-1131	3 RD Bead Type
Stem Seal	Both	2011-16	122-1468	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2011-16	140-3179	0.1966 I.D., 1.460 Length, 0.3952 O.D.
		2011-16	140-3213	0.1966 I.D., 1.540 Length, 0.3952 O.D., NOTE: Alternative Length
Spring	Both	2011-16	160-1646	1.665 Length
Lifter	Both	2011-16	VL570	Hydraulic Lash Adjuster Type
Rocker Components	Both	2011-16	180-1339	Roller Cam Follower
Head Saver Shim		2011-16	230-2169	New Hgt. - 4.961"" - Min. Hgt. N/A

12 85 C.I., (1.4L), DOHC, GAS, FI, 16 Valve, Vin A, LV7, ""Ecotec"" GMC1.4-LV7
2016-21 L4 85 CID BORE - 74mm/2.91""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2016-20	121-1131	3 RD Bead Type

(Cont'd) **GM / PASSENGER CAR**

85 C.I., (1.4L), DOHC, GAS, FI, 16 Valve, Vin A, LV7, ""Ecotec"" GMC1.4-LV7 **12**
2016-21 L4 85 CID BORE - 74mm/2.91"" (cont.)

PART	YEARS	PART NO.	NOTES
Lifter	Both 2016-20	VL175	Hydraulic Lash Adjuster Type

91 C.I., (1.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin 5, L3A, ""Ecotec Hybrid"" GMC1.5-L3A **13**
2016-19 L4 91 CID BORE - 74mm/2.90""

PART	YEARS	PART NO.	NOTES
Keeper	Both 2016-19	121-1131	3 RD Bead Type
Lifter	Both 2016-19	VL175	Hydraulic Lash Adjuster Type

91 C.I., (1.5L), DOHC, GAS, FI, 16 Valve, Vin T, Lfv, ""Ecotec TURBO"" GMC1.5-LFV **14**
2016-21 L4 91 CID BORE - 74mm/2.91""

PART	YEARS	PART NO.	NOTES
Keeper	Both 2016-21	121-1131	3 RD Bead Type
Lifter	Both 2016-21	VL175	Hydraulic Lash Adjuster Type

1471cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin 7, K, ""4XC1 Isuzu"" GMC-4XC1 **15**
1985-89 L4 92 CID BORE - 77mm/3.03""

PART	YEARS	PART NO.	NOTES
Valve	Int 1985-89 Exh 1985-89	10105 10104	1.415 Head Diameter 1.220 Head Diameter
Keeper	Both 1985-89	121-1048	1 RD Bead Type
Stem Seal	Both 1985-89	122-1130	Positive Type,Viton Material,Metal Clad Style

1471cc, (1.5L), SOHC, GAS, FI, 8 Valve, Vin 9, ""4XC1 Isuzu TURBO"" GMC-4XC1T **16**
1987-89 L4 92 CID BORE - 77mm/3.03""

PART	YEARS	PART NO.	NOTES
Valve	Int 1987-89	10105	1.415 Head Diameter
Keeper	Both 1987-89	121-1048	1 RD Bead Type
Stem Seal	Both 1987-89	122-1130	Positive Type,Viton Material,Metal Clad Style

1588cc, (1.6L), SOHC, GAS, FI, 8 Valve, Vin 6 GMC1.6-6 **17**
1988-93 L4 98 CID BORE - 79mm/3.11""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1988-93 Exh 1988-93	SB1562-67 SB1312-56	1 ⁹ / ₁₆ O.D.,1.255T I.D.,0.3190 Depth 1 ⁵ / ₁₆ O.D.,1.086 I.D.,0.3050 Depth
Stem Seal	Both 1988-93	122-1073	Positive Type,Viton Material,Metal Clad Style
Guide	Both 1988-93	140-8039	0.2771 I.D.,1.790 Length,0.4342 O.D.,+2 O/S Available
Lifter	Both 1988-93	VL109	Hydraulic Lash Adjuster Type

1588cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 6, ""4A-FE Toyota"" GMC-4AFE **18**
1989-97 L4 98 CID BORE - 81mm/3.18""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1989-97 Exh 1989-97	SB1250-54 SB1062-50	1 ¹ / ₄ O.D.,1.010T I.D.,0.2570 Depth 1 ¹ / ₁₆ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int 1989-92 1993-97 Exh 1989-92 1993-97	10314 10506 10315 10507	1.181 Head Diameter,3.597 Overall Length 1.221 Head Diameter,3.445 Overall Length 0.967 Head Diameter,3.618 Overall Length 0.965 Head Diameter,3.466 Overall Length
Keeper	Both 1989-97	121-1058	1 RD Bead Type
Stem Seal	Both 1989-97	122-1147	Positive Type,Viton Material,Metal Clad Style

GM / PASSENGER CAR (Cont'd)

18 1588cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 6, ""4A-FE Toyota"" GMC-4AFE
 (cont.) 1989-97 L4 98 CID BORE - 81mm/3.18""

PART	YEARS	PART NO.	NOTES
Guide	Both	1989-97 140-8147	0.2370 I.D., 1.520 Length, 0.4360 O.D.
Spring	Both	1989-92 160-1252 1995-97 160-1358	1.796 Length 1.745 Length
Head Bolt Set		1989-97 220-1035	Torque To Yield, Services Engine
Head Saver Shim		1989-92 230-2033 1993-97 230-2097	New Hgt. - 4.5700; Min. Hgt. - 4.5600 New Hgt. - N/A; Min Hgt. - N/A

19 1588cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 5, ""4A-GE Toyota"" GMC-4AGE
 1988-92 L4 98 CID BORE - 80mm/3.15""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1988-92 SB1250-54 1988-92 SB1125-51	1¼ O.D., 1.010T I.D., 0.2570 Depth 1½ O.D., 0.854 I.D., 0.2370 Depth
Valve	Int Exh	1988-92 10176 1988-92 10177	1.201 Head Diameter 1.004 Head Diameter
Keeper	Both	1988-92 121-1058	1 RD Bead Type
Stem Seal	Both	1988-92 122-1147	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1988-92 140-8038	0.2371 I.D., 1.595 Length, 0.4350 O.D., W/ Snap Ring, +2 O/S Available
Spring	Both	1988-92 160-1055	1.760 Length

20 1588cc, (1.6L), SOHC, GAS, CARB, 8 Valve, Vin 4, ""4A-LC Toyota"" GMC-4ALC
 1985-88 L4 98 CID BORE - 78mm/3.07""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1985-88 SB1500-71 1985-88 SB1312-59	1½ O.D., 1.240 I.D., 0.3170 Depth 1⅝ O.D., 1.044 I.D., 0.2730 Depth
Valve	Int Exh	1985-88 10107 1985-88 10106	1.417 Head Diameter 1.220 Head Diameter
Stem Seal	Both	1985-88 122-1130	Positive Type, Viton Material, Metal Clad Style
Guide	Int Exh	1985-88 140-8020 1985-88 140-8021	0.2757 I.D., 1.690 Length, 0.4550 O.D., W/ Snap Ring 0.2757 I.D., 1.930 Length, 0.4550 O.D., W/ Snap Ring
Spring	Both	1985-88 160-1055	1.760 Length
Head Saver Shim		1985-88 230-2018	New Hgt. - 3.3950 - 3.4000; Min. Hgt. - 3.3850

21 1588cc, (1.6L), SOHC, GAS, FI, 12 Valve, Vin 6, ""4XE1 Isuzu"" GMC-4XE1
 1990-93 L4 98 CID BORE - 80mm/3.15""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1990-93 SB1187-52 1990-93 SB1375-51	1⅜ O.D., 0.934T I.D., 0.2570 Depth 1⅝ O.D., 1.060T I.D., 0.2800 Depth
Keeper	Both	1990-93 121-1074	1 RD Bead Type
Stem Seal	Both	1990-93 122-1147	Positive Type, Viton Material, Metal Clad Style
Guide	Int Exh	1990-93 140-8189 1990-93 140-8291	0.2340 I.D., 1.651 Length, 0.4353 O.D., I.D. Must Be Reamed To Size 0.2350 I.D., 1.850 Length, 0.4355 O.D.

22 1588cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 5, ""4XE1W Isuzu"" GMC-4XE1W
 1990-91 L4 98 CID BORE - 80mm/3.15""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1990-91 SB1312-52 1990-91 SB1187-52	1⅝ O.D., 1.060T I.D., 0.2400 Depth 1⅜ O.D., 0.934T I.D., 0.2570 Depth

(Cont'd) **GM / PASSENGER CAR**

1588cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 5, ""4XE1W Isuzu"" GMC-4XE1W **22**
1990-91 L4 98 CID BORE - 80mm/3.15"" (cont.)

PART	YEARS	PART NO.	NOTES
Keeper	Both 1990-91	121-1074	1 RD Bead Type
Stem Seal	Both 1990-91	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Int 1990-91	140-8189	0.2340 I.D.,1.651 Length,0.4353 O.D.,I.D. Must Be Reamed To Size
	Exh 1990-91	140-8255	0.2345 I.D.,1.775 Length,0.4355 O.D.,I.D. Must Be Reamed To Size

98 C.I., (1.6L), SOHC, GAS, CARB, 8 Valve, Vin 9, C, E 1.6-C9E **23**
1976-87 L4 98 CID BORE - 82mm/3.23""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1976-87	SB1625-1	1 $\frac{5}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh 1976-87	SB1375-1	1 $\frac{3}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth,+30 O/S Available, Also Available In Non-Magnetic (N) Material
Keeper	Both 1976-87	121-1021	1 RD Bead Type
Stem Seal	Int 1976-87	122-1052	Positive Type,Viton Material, Ring & Band Style
	Exh 1976-87	122-1053	Positive Type,Viton Material, Ring & Band Style,Black Color Seal
Guide	Int 1976-87	140-9584	0.3155 I.D.,1.563 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Lifter	Both 1976-87	VL109	Hydraulic Lash Adjuster Type

98 C.I., (1.6L), DOHC, GAS, FI, 16 Valve, Vin 6, L91, ""E-TEC II"" GMC1.6-L91 **24**
2004-08 L4 98 CID BORE - 79mm/3.11""

PART	YEARS	PART NO.	NOTES
Valve	Int 2004-08	02247	1.124 Head Diameter
	Exh 2004-08	02248S	1.073 Head Diameter,Stellite Face
Keeper	Both 2004-08	121-1107	1 RD Bead Type
Stem Seal	Both 2004-08	122-1409	Positive Type,Viton Material,Top Hat Style
Guide	Both 2004-08	140-3046	0.2365 I.D.,1.575 Length,0.4355 O.D.
Spring	Both 2004-08	160-1487	1.610 Length
Lifter	Both 2004-08	VL567	Hydraulic Bucket Type
Head Saver Shim	2004-05	230-2146	New Hgt. - 5.2800 - 5.2890; Min. Hgt. - 5.2800
	2006-08	230-2161	New Hgt. - 5.2800 - 5.2890; Min. Hgt. - 5.2800

98 C.I., (1.6L), DOHC, DIESEL, FI, 16 Valve, Vin E, LH7, ""TURBO"" GMC1.6-LH7 **25**
2017-19 L4 98 CID BORE - 79.7mm/3.14""

PART	YEARS	PART NO.	NOTES
Keeper	Both 2017-19	121-1131	3 RD Bead Type

98 C.I., (1.6L), DOHC, GAS, FI, 16 Valve, Vin E, LXV, ""E-TEC II"" GMC1.6-LXV **26**
2009-11 L4 98 CID BORE - 79mm/3.11""

PART	YEARS	PART NO.	NOTES
Valve	Int 2009-11	13340	1.228 Head Diameter
	Exh 2009-11	13341S	1.083 Head Diameter,Stellite Face
Keeper	Both 2009-11	121-1131	3 RD Bead Type
Stem Seal	Both 2009-11	122-1458	Positive Type,Viton Material,Top Hat Style
Spring	Both 2009-11	160-1632	1.637 Length,Conical

GM / PASSENGER CAR (Cont'd)

27 98 C.I., (1.6L), DOHC, GAS, FI, 16 Valve, Vin 5, LWC, ""Ecotec TURBO"" GMC1.6-LWC
 2016-19 L4 98 CID BORE - 79mm/3.11""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2016-19 121-1131	3 RD Bead Type
Lifter	Both	2016-19 VL175	Hydraulic Lash Adjuster Type

28 1788cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 8, ""7A-FE Toyota"" GMC-7AFE
 1993-97 L4 109 CID BORE - 81mm/3.19""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1993-97 SB1250-54 1993-97 SB1062-50	1¼ O.D.,1.010T I.D.,0.2570 Depth 1⅙ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int Exh	1993-97 10506 1993-97 10507	1.221 Head Diameter 0.965 Head Diameter
Keeper	Both	1993-97 121-1058	1 RD Bead Type
Stem Seal	Both	1993-97 122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1993-97 140-8147	0.2370 I.D.,1.520 Length,0.4360 O.D.
Spring	Both	1993-97 160-1358	1.745 Length
Head Bolt Set		1993-97 220-1035	Torque To Yield,Services Engine
Head Saver Shim		1993-97 230-2100	New Hgt.- 4.567

29 1794cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 8, ""1ZZ-FE Toyota"" 1.8-1ZZ-FE
 1998-08 L4 109 CID BORE - 79mm/3.11""

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	1998-99 10735 2000-08 10780 1998-99 10736 2000-08 10781	1.260 Head Diameter 1.220 Head Diameter 1.081 Head Diameter 1.024 Head Diameter
Keeper	Both	1998-08 121-1100	1 RD Bead Type
Stem Seal	Int Exh	1998-08 122-1266 1998-08 122-1282	Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style
Guide	Both	1998-08 140-8584	0.2175 I.D.,1.360 Length,0.4073 O.D.
Spring	Both	2000-08 160-1444	1.709 Length
Head Saver Shim		1998-08 230-2147	New Hgt. 4.520 - 4.527; Min. Hgt. N/A

30 1795cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin L, ""2Z-ZGE Toyota High Output"" 1.8-2ZZGE
 2003-06 L4 110 CID BORE - 82mm/3.23""

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2003-06 02177 2003-06 02178S	1.339 Head Diameter 1.142 Head Diameter,Stellite Face
Stem Seal	Both	2003-06 122-1347	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2003-06 340-1011BR	0.2165 I.D.,1.695 Length,0.4155 O.D.,Optional Bronze Guide

31 110 C.I., (1.8L), DOHC, GAS, FI, 16 Valve, Vin 1, 2H0, ""Ecotec"" GMC1.8-2H0
 2008-09 L4 110 CID BORE - 80.5mm/3.17""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2008-09 121-1131	3 RD Bead Type
Stem Seal	Both	2008-09 122-1458	Positive Type,Viton Material,Top Hat Style
Spring	Both	2008-09 160-1632	1.637 Length,Conical

(Cont'd) **GM / PASSENGER CAR**

110 C.I., (1.8L), DOHC, FLEX, FI, 16 Valve, Vin H, LUW, ""Ecotec"" GMC1.8-LUW **32**
2011-18 L4 110 CID BORE - 80.5mm/3.17""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2011-18	13342	1.232 Head Diameter
	Exh	2011-18	13343	1.083 Head Diameter
Keeper	Both	2011-18	121-1131	3 RD Bead Type
Stem Seal	Both	2011-18	122-1458	Positive Type,Viton Material,Top Hat Style

110 C.I., (1.8L), DOHC, GAS, FI, 16 Valve, Vin G, LWE, ""Ecotec"" GMC1.8-LWE **33**
2013-18 L4 110 CID BORE - 80.5mm/3.17""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2013-18	13342	1.232 Head Diameter
	Exh	2013-18	13343	1.083 Head Diameter
Keeper	Both	2013-18	121-1131	3 RD Bead Type
Stem Seal	Both	2013-18	122-1458	Positive Type,Viton Material,Top Hat Style
Guide	Both	2013-18	140-3179	0.1966 I.D.,1.460 Length,0.3952 O.D.,NOTE: Guides May Require Hone To Achieve Proper Clearance

110 C.I., (1.8L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin U, LKN, ""Ecotec Hybrid"" GMC1.8-LKN **34**
2016-19 L4 110 CID BORE - 80.5mm/3.17""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2016-19	121-1131	3 RD Bead Type
Lifter	Both	2016-19	VL175	Hydraulic Lash Adjuster Type

1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 8, LAY, ""2ZR-FE Toyota"" GMC1.8-2ZRFE **35**
2009-10 L4 110 CID BORE - 80.5mm/3.17""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2009-10	121-1100	1 RD Bead Type
Stem Seal	Both	2009-10	122-1266	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2009-10	140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh	2009-10	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

1809cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 8, ""4XF1 Isuzu"" GMC-4XF1 **36**
1992-93 L4 110 CID BORE - 80mm/3.15""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1992-93	SB1312-52	1 $\frac{5}{16}$ O.D.,1.060T I.D.,0.2400 Depth
	Exh	1992-93	SB1187-52	1 $\frac{5}{16}$ O.D.,0.934T I.D.,0.2570 Depth
Keeper	Both	1992-93	121-1074	1 RD Bead Type
Stem Seal	Both	1992-93	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1992-93	140-8189	0.2340 I.D.,1.651 Length,0.4353 O.D.,I.D. Must Be Reamed To Size
	Exh	1992-93	140-8255	0.2345 I.D.,1.775 Length,0.4355 O.D.,I.D. Must Be Reamed To Size

1816cc, (1.8L), SOHC, GAS, CARB, 8 Valve, Vin B, ""G180Z Isuzu"" GMC1.8B **37**
1976-79 L4 110 CID BORE - 84mm/3.31""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1976-79	SB1437-56	1 $\frac{7}{16}$ O.D.,1.110T I.D.,0.3150 Depth
Valve	Int	1976-79	10087	1.673 Head Diameter,Square Groove
Keeper	Both	1976-79	121-1047	1 SQ Bead Type
Stem Seal	Both	1976-79	122-1263	Positive Type,Viton Material, Ring & Spring Style
Guide	Int	1976-79	140-7713	0.3145 I.D.,1.810 Length,0.4745 O.D.

GM / PASSENGER CAR (Cont'd)

37 1816cc, (1.8L), SOHC, GAS, CARB, 8 Valve, Vin B, ""G180Z Isuzu"" GMC1.8B
 (cont.) 1976-79 L4 110 CID BORE - 84mm/3.31""

PART	YEARS	PART NO.	NOTES
Guide	Exh	1976-79 140-7714	0.3145 I.D.,2.160 Length,0.4745 O.D.,+2 O/S Available

38 1819cc, (1.8L), OHV, DIESEL, FI, 8 Valve, Vin D, ""4FB1 Isuzu "" GMC1.8D
 1981-86 L4 110 CID BORE - 84mm/3.31""

PART	YEARS	PART NO.	NOTES
Stem Seal	Both	1981-86 122-1263	Positive Type,Viton Material, Ring & Spring Style
Guide	Int	1981-86 140-7713	0.3145 I.D.,1.810 Length,0.4745 O.D.
	Exh	1981-86 140-7714	0.3145 I.D.,2.160 Length,0.4745 O.D.,+2 O/S Available

39 112 C.I., (1.8L), OHV, GAS, CARB, 8 Valve, Vin G 112G
 1982-82 L4 112 CID BORE - 83mm/3.29""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1982-82 SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ¹⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1982-82 SB1437-2	1 ⁷ / ₁₆ O.D.,1 ¹⁷ / ₃₂ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Keeper	Both	1982-82 121-1021	1 RD Bead Type
Stem Seal	Int	1982-82 122-1052	Positive Type,Viton Material, Ring & Band Style
	Exh	1982-82 122-1053	Positive Type,Viton Material, Ring & Band Style,Black Color Seal
Guide	Both	1982-82 140-9705	0.3155 I.D.,2.000 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9705U)
Spring	Both	1982-82 160-1009	1.910 Length,W/ Damper
Lifter	Both	1982-82 VL37	Hydraulic Type
Rocker Components	Both	1982-82 181-1016	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 10mm Nut
		1982-82 183-1015	Smooth Ball, 10mm,Use W/ Metric Threaded Rocker Arm Stud
		1982-82 184-1025	Stud, 10mm,Adjustable
		1982-82 184-1032	Nut, 10mm,Adjustable

40 112 C.I., (1.8L), SOHC, GAS, FI, 8 Valve, Vin O, ""Brazil"" 112-0
 1982-86 L4 112 CID BORE - 84.8mm/3.34""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1982-86 SB1687-54	1 ¹¹ / ₁₆ O.D.,1.450 I.D.,0.2970 Depth
		1982-86 SB1750-68	1 ³ / ₄ O.D.,1.415 I.D.,0.3160 Depth,Optional O/S O.D.
	Exh	1982-86 SB1437-62	1 ⁷ / ₁₆ O.D.,1.200 I.D.,0.2970 Depth
		1982-86 SB1500-58	1 ¹ / ₂ O.D.,1.200T I.D.,0.3150 Depth,Optional O/S O.D.
Keeper	Both	1982-86 121-1021	1 RD Bead Type
Spring	Both	1982-86 160-1064	1.935 Length
Lifter	Both	1982-86 VL109	Hydraulic Lash Adjuster Type
Rocker Components	Both	1982-86 180-1028	Cam Follower
Head Bolt Set		1982-86 220-1014	Torque To Yield,Services Engine
Head Saver Shim		1982-86 230-2020	New Hgt.- 3.7800 - 3.7900, Min. Hgt.- 3.7650

41 112 C.I., (1.8L), SOHC, GAS, FI, 8 Valve, Vin J, ""TURBO"" 112J
 1984-86 L4 112 CID BORE - 84.8mm/3.34""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1984-86 SB1687-54	1 ¹¹ / ₁₆ O.D.,1.450 I.D.,0.2970 Depth
		1984-86 SB1750-68	1 ³ / ₄ O.D.,1.415 I.D.,0.3160 Depth,Optional O/S O.D.
	Exh	1984-86 SB1437-62	1 ⁷ / ₁₆ O.D.,1.200 I.D.,0.2970 Depth

(Cont'd) GM / PASSENGER CAR**112 C.I., (1.8L), SOHC, GAS, FI, 8 Valve, Vin J, ""TURBO""**
1984-86 L4 112 CID112J **41**

BORE - 84.8mm/3.34"" (cont.)

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1984-86	SB1500-58	1½ O.D., 1.200T I.D., 0.3150 Depth, Optional I.D. & O/S O.D.
Keeper	Both	1984-86	121-1021	1 RD Bead Type
Spring	Both	1984-86	160-1064	1.935 Length
Lifter	Both	1984-86	VL109	Hydraulic Lash Adjuster Type
Rocker Components	Both	1984-86	180-1028	Cam Follower
Head Bolt Set		1984-86	220-1014	Torque To Yield, Services Engine

116 C.I., (1.9L), DOHC, GAS, FI, 16 Valve, Vin 7, ""Saturn""
1991-02 L4 116 CID1.9-7 **42**

BORE - 82mm/3.23""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1991-02	SB1375-60	1⅜ O.D., 1.107T I.D., 0.2370 Depth
	Exh	1991-02	SB1125-53	1⅜ O.D., 0.890T I.D., 0.2370 Depth
Valve	Int	1991-98	10520	1.272 Head Diameter, 0.2738 Stem Dia.
		1999-02	01949	1.272 Head Diameter, 0.2349 Stem Dia.
	Exh	1991-98	10521	1.081 Head Diameter, 0.2732 Stem Dia.
		1999-02	01950	1.080 Head Diameter, 0.2344 Stem Dia.
Keeper	Both	1991-98	121-1090	1 RD Bead Type, W/ 7mm Stem Dia.
		1999-02	121-1081	1 RD Bead Type, W/ 6mm Stem Dia.
Stem Seal	Both	1991-98	122-1230	Positive Type, Viton Material, Top Hat Style, W/ 7mm Stem Dia.
		1999-02	122-1331	Positive Type, Viton Material, Top Hat Style, W/ 6mm Stem Dia.
Guide	Both	1991-98	140-8293	0.2755 I.D., 1.510 Length, 0.4493 O.D., 0.2755 I.D.
		1999-02	140-3020	0.2366 I.D., 1.510 Length, 0.4493 O.D., 0.2366 I.D.
Spring	Both	1991-94	160-1360	1.630 Length, Conical
Lifter	Both	1999-02	VL175	Hydraulic Lash Adjuster Type
Head Bolt Set		1991-02	220-1116	Torque To Yield, Services Engine
Head Saver Shim		1991-02	230-2117	New Hgt. - 4.445 - 4.453, Min. Hgt: 4.444

116 C.I., (1.9L), SOHC, GAS, FI, 8 Valve, Vin 8, 9, ""Saturn""
1991-02 L4 116 CID1.9-8 **43**

BORE - 82mm/3.23""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1991-02	SB1687-58	1⅞ O.D., 1.397T I.D., 0.2750 Depth
	Exh	1991-02	SB1437-69	1⅞ O.D., 1.140T I.D., 0.2370 Depth
Valve	Int	1991-02	10522	1.575 Head Diameter
	Exh	1991-02	10523	1.339 Head Diameter
Keeper	Both	1991-02	121-1090	1 RD Bead Type
Stem Seal	Both	1991-02	122-1230	Positive Type, Viton Material, Top Hat Style
Guide	Exh	1997-98	140-8021	0.2757 I.D., 1.930 Length, 0.4550 O.D., W/ Snap Ring
	Both	1991-02	140-8292	0.2755 I.D., 2.125 Length, 0.4495 O.D., Replaces 2.520 Long Guide To Prevent Carbon Buildup. For 1997-98 Fits Int Only.
Lifter	Both	1991-02	VL123	Hydraulic Roller Type
Head Bolt Set		1991-02	220-1118	Torque To Yield, Services Engine
Head Saver Shim		1991-02	230-2116	New Hgt. - 4.444 - 4.454, Min. Hgt: 4.444

122 C.I., (2.0L), OHV, GAS, CARB, FI, 8 Valve, Vin B, P
1983-86 L4 122 CIDGMC122BP **44**

BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1983-86	SB1687-2	1⅞ O.D., 1⅞ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

GM / PASSENGER CAR (Cont'd)

44 122 C.I., (2.0L), OHV, GAS, CARB, FI, 8 Valve, Vin B, P GMC122BP
 (cont.) 1983-86 L4 122 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1983-86	SB1437-2	1 ⁷ / ₁₆ O.D., 1 ⁷ / ₃₂ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Keeper	Both	1983-86	121-1021	1 RD Bead Type
Stem Seal	Int	1983-86	122-1052	Positive Type, Viton Material, Ring & Band Style
	Exh	1983-86	122-1053	Positive Type, Viton Material, Ring & Band Style, Black Color Seal
Guide	Int	1983-86	140-8114	0.3155 I.D., 2.770 Length, 0.5830 O.D., W/ .313 Stem Dia., Aluminum Heads
	Exh	1983-86	140-8115	0.3155 I.D., 2.320 Length, 0.5830 O.D., W/ .313 Stem Dia., Aluminum Heads, +2 O/S Available
	Both	1983-86	140-9705	0.3155 I.D., 2.000 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Cast Iron Heads, -5 U/S I.D. Available
Spring	Both	1983-86	160-1009	1.910 Length, W/ Damper
Lifter	Both	1983-86	VL117RH	Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train.
		1983-86	VL73	Hydraulic Type
Rocker Components	Both	1983-86	181-1016	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 10mm Nut
		1983-86	183-1015	Smooth Ball, 10mm, Use W/ Metric Threaded Rocker Arm Stud
		1983-86	184-1025	Stud, 10mm, Adjustable
		1983-86	184-1032	Nut, 10mm, Adjustable

45 122 C.I., (2.0L), OHV, GAS, FI, 8 Valve, Vin 1 GMC122-1
 1987-89 L4 122 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1987-89	SB1812-55	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 0.2780 Depth
	Exh	1987-89	SB1562-66	1 ⁹ / ₁₆ O.D., 1.265T I.D., 0.2800 Depth
Valve	Int	1987-89	01569	1.693 Head Diameter
Keeper	Both	1987-89	121-1021	1 RD Bead Type
Stem Seal	Int	1987-89	122-1052	Positive Type, Viton Material, Ring & Band Style
	Exh	1987-89	122-1053	Positive Type, Viton Material, Ring & Band Style, Black Color Seal
Guide	Int	1987-89	140-8114	0.3155 I.D., 2.770 Length, 0.5830 O.D., W/ .313 Stem Dia., Aluminum Heads
	Exh	1987-89	140-8115	0.3155 I.D., 2.320 Length, 0.5830 O.D., W/ .313 Stem Dia., Aluminum Heads, +2 O/S Available
	Both	1987-89	140-9705	0.3155 I.D., 2.000 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Cast Iron Heads, -5 U/S I.D. Available
Spring	Both	1987-89	160-1086	2.059 Length
Lifter	Both	1987-89	VL117RH	Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train.
		1987-89	VL73	Hydraulic Type
Rocker Components	Both	1987-89	181-1063	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) Nut
Push Rod	Both	1987-89	192-1484	7.700 Length
Head Saver Shim		1987-89	230-2021	New Hgt. - 5.3150 - 5.3200; Min. Hgt. - 5.3050

46 122 C.I., (2.0L), SOHC, GAS, FI, 8 Valve, Vin H, ""Brazil"" GMC122H
 1992-94 L4 122 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1992-94	SB1812-52	1 ¹³ / ₁₆ O.D., 1.440T I.D., 0.3150 Depth

(Cont'd) **GM / PASSENGER CAR**

122 C.I., (2.0L), SOHC, GAS, FI, 8 Valve, Vin H, ""Brazil""
1992-94 L4 122 CID

GMC122H 46
BORE - 86mm/3.39"" (cont.)

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1992-94	SB1500-62	1½ O.D., 1.220T I.D., 0.3100 Depth
Valve	Int	1992-94	10213	1.646 Head Diameter, 0.030 Shorter Than OEM
	Exh	1992-94	10116	1.437 Head Diameter, 0.030 Shorter Than OEM
Stem Seal	Both	1992-94	122-1073	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1992-94	140-8039	0.2771 I.D., 1.790 Length, 0.4342 O.D., +2 O/S Available
Lifter	Both	1992-94	VL109	Hydraulic Lash Adjuster Type
Rocker Components	Both	1992-94	180-1028	Cam Follower
Head Bolt Set		1992-94	220-1014	Torque To Yield, Services Engine
Head Saver Shim		1992-94	230-2020	New Hgt. - 3.7800 - 3.7850, Min. Hgt. - 3.7650

122 C.I., (2.0L), SOHC, GAS, FI, 8 Valve, Vin K, ""Brazil""
1987-91 L4 122 CID

GMC122K 47
BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1987-91	SB1812-54	1 ¹³ / ₁₆ O.D., 1.405T I.D., 0.3150 Depth
	Exh	1987-91	SB1500-62	1½ O.D., 1.220T I.D., 0.3100 Depth
Valve	Int	1987-91	10117	1.692 Head Diameter, 0.030 Shorter Than OEM
	Exh	1987-91	10116	1.437 Head Diameter, 0.030 Shorter Than OEM
Stem Seal	Both	1987-91	122-1073	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1987-91	140-8039	0.2771 I.D., 1.790 Length, 0.4342 O.D., +2 O/S Available
Lifter	Both	1987-91	VL109	Hydraulic Lash Adjuster Type
Rocker Components	Both	1987-91	180-1028	Cam Follower
Head Bolt Set		1987-91	220-1014	Torque To Yield, Services Engine
Head Saver Shim		1987-91	230-2020	New Hgt. - 3.7800 - 3.7900; Min. Hgt. - 3.7650

122 C.I., (2.0L), SOHC, GAS, FI, 8 Valve, Vin M, ""Brazil TURBO""
1987-90 L4 122 CID

GMC122M 48
BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1987-90	SB1812-54	1 ¹³ / ₁₆ O.D., 1.405T I.D., 0.3150 Depth
	Exh	1987-90	SB1500-62	1½ O.D., 1.220T I.D., 0.3100 Depth
Valve	Int	1987-90	10117	1.692 Head Diameter, 0.030 Shorter Than OEM
	Exh	1987-90	10116	1.437 Head Diameter, 0.030 Shorter Than OEM
Stem Seal	Both	1987-90	122-1073	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1987-90	140-8039	0.2771 I.D., 1.790 Length, 0.4342 O.D., +2 O/S Available
Lifter	Both	1987-90	VL109	Hydraulic Lash Adjuster Type
Rocker Components	Both	1987-90	180-1028	Cam Follower
Head Bolt Set		1987-90	220-1014	Torque To Yield, Services Engine
Head Saver Shim		1987-90	230-2020	New Hgt. - 3.7800 - 3.7850, Min. Hgt. - 3.7650

122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin Z, ""E-TEC II""
2004-07 L4 122 CID

GMC2.0-Etec 49
BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2004-07	10784	1.260 Head Diameter
	Exh	2004-07	02040S	1.142 Head Diameter, Recommended OEM Nickel Base Inconel Material, Stellite Face
		2004-07	22040S	1.142 Head Diameter, Alternative Austenitic Material, Stellite Face
Keeper	Both	2004-07	121-1098	3 RD Bead Type

GM / PASSENGER CAR (Cont'd)

49 122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin Z, ""E-TEC II"" GMC2.0-ETEC
 (cont.) 2004-07 L4 122 CID BORE - 86mm/3.39""

PART		YEARS	PART NO.	NOTES
Stem Seal	Both	2004-07	122-1329	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2004-07	140-3010	0.2362 I.D.,1.773 Length,0.3950 O.D.
	Exh	2004-07	140-3011	0.2362 I.D.,1.378 Length,0.3950 O.D.
Head Saver Shim		2004-07	230-2151	New Hgt. N/A; Min. Hgt. N/A

50 122 C.I., (2.0L), DOHC, FLEX, FI, 16 Valve, Vin V, LHU, ""Ecotec TURBO"" GMC2.0-LHU
 2011-16 L4 122 CID BORE - 86mm/3.39""

PART		YEARS	PART NO.	NOTES
Valve	Int	2011-16	13293	1.382 Head Diameter
Keeper	Both	2011-16	121-1098	3 RD Bead Type
Stem Seal	Both	2011-16	122-1355	Positive Type,Viton Material,Top Hat Style
Spring	Both	2011-16	160-1508	1.678 Length
Lifter	Both	2011-16	VL175	Hydraulic Lash Adjuster Type

51 122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin M, X, LNF, ""DI Ecotec TURBO"" GMC2.0-LNF
 2007-10 L4 122 CID BORE - 86mm/3.39""

PART		YEARS	PART NO.	NOTES
Valve	Int	2007-10	13293	1.382 Head Diameter
Keeper	Both	2007-10	121-1098	3 RD Bead Type
Stem Seal	Both	2007-10	122-1355	Positive Type,Viton Material,Top Hat Style
Guide	Both	2007-10	140-3029	0.2365 I.D.,1.420 Length,0.3950 O.D.,NOTE: May Require +2 O/S (140-3029+2) Due To Factory Installed O/S Guide.
Spring	Both	2007-10	160-1508	1.678 Length
Lifter	Both	2007-10	VL175	Hydraulic Lash Adjuster Type

52 122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin P, LSJ, ""Supercharged Ecotec"" GMC2.0-LSJ
 2004-07 L4 122 CID BORE - 86mm/3.39""

PART		YEARS	PART NO.	NOTES
Valve	Int	2004-07	13331	1.380 Head Diameter
	Exh	2004-07	13332SN	1.185 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2004-07	121-1098	3 RD Bead Type
Stem Seal	Both	2004-07	122-1355	Positive Type,Viton Material,Top Hat Style
Guide	Both	2004-07	140-3029	0.2365 I.D.,1.420 Length,0.3950 O.D.,NOTE: May Require +2 O/S (140-3029+2) Due To Factory Installed O/S Guide.
Spring	Both	2004-07	160-1508	1.678 Length
Lifter	Both	2004-07	VL175	Hydraulic Lash Adjuster Type

53 122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin K, LSY, ""TURBO"" GMC2.0-LSY
 2019-21 L4 122 CID BORE - 83mm/3.26""

PART		YEARS	PART NO.	NOTES
Keeper	Both	2019-21	121-1098	3 RD Bead Type

54 122 C.I., (2.0L), DOHC, ELECTRIC/GAS, GAS, FI, 16 Valve, Vin X, LTG, ""Ecotec TURBO"" GMC2.0-LTG
 2013-21 L4 122 CID BORE - 86mm/3.39""

PART		YEARS	PART NO.	NOTES
Valve	Int	2013-21	13441	1.437 Head Diameter

(Cont'd) GM / PASSENGER CAR**122 C.I., (2.0L), DOHC, ELECTRIC/GAS, GAS, FI, 16 Valve, Vin X, LTG,
""Ecotec TURBO""****54**

2013-21 L4 122 CID

GMC2.0-LTG (cont.)

BORE - 86mm/3.39""

PART		YEARS	PART NO.	NOTES
Keeper	Both	2013-21	121-1127	1 RD Bead Type
Stem Seal	Int	2020-21	122-1418	Positive Type,Viton Material,Top Hat Style
	Exh	2020-21	122-1495	Positive Type,Viton Material,Top Hat Style
	Both	2013-19	122-1495	Positive Type,Viton Material,Top Hat Style
Spring	Both	2013-21	160-1588	1.729 Length,Conical
Lifter	Both	2013-21	VL175	Hydraulic Lash Adjuster Type

**134 C.I., (2.2L), OHV, GAS, FI, 8 Valve, Vin 4, G, LN2
1990-02 L4 134 CID****GMC134 55**

BORE - 89mm/3.50""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1990-02	SB1812-55	1 ¹ / ₁₆ O.D.,1 ¹ / ₂ T I.D.,0.2780 Depth
	Exh	1990-02	SB1562-66	1 ⁹ / ₁₆ O.D.,1.265T I.D.,0.2800 Depth
Valve	Int	1990-91	01569	1.693 Head Diameter,W/ .3136 Stem Dia., .2580 Tip To Groove
		1992-93	01705	1.732 Head Diameter,W/ .3136 Stem Dia., .189 Tip To Groove
		1994-97	01736	1.732 Head Diameter,W/ .2742 Stem Dia., 5.465 Overall Length
	Exh	1998-02	01902	1.732 Head Diameter,0.020 Shorter than OEM.,W/ .2746 Stem Dia., 5.265 Overall Length.
		1992-93	01704	1.457 Head Diameter,W/ .3132 Stem Dia., .210 Tip To Groove
		1994-97	01737	1.457 Head Diameter,W/ .2738 Stem Dia., 5.142 Overall Length
1998-02	01903	1.457 Head Diameter,0.020 Shorter than OEM.,W/ .2738 Stem Dia., 4.980 Overall Length.		
Keeper	Both	1990-93	121-1021	1 RD Bead Type,W/ .313 Stem Dia.
		1994-02	121-1090	1 RD Bead Type,W/ .274 Stem Dia.
Stem Seal	Int	1990-93	122-1052	Positive Type,Viton Material,Ring & Band Style,W/ .3135 Stem Dia.
	Exh	1990-93	122-1053	Positive Type,Viton Material,Ring & Band Style,Black Color Seal,W/ .3135 Stem Dia.
	Both	1994-97	122-1236	Positive Type,Viton Material,Ring & Band Style
Guide	Int	1990-93	140-8114	0.3155 I.D.,2.770 Length,0.5830 O.D.,W/ .313 Stem Dia.
		1994-97	140-8536	0.2757 I.D.,2.770 Length,0.5828 O.D.,W/ .2757 Stem Dia.
	Exh	1990-93	140-8115	0.3155 I.D.,2.320 Length,0.5830 O.D.,W/ .313 Stem Dia., +2 O/S Available
		1994-97	140-8535	0.2757 I.D.,2.320 Length,0.5828 O.D.,W/ .2757 Stem Dia.
Both	1998-02	140-3009	0.2763 I.D.,2.289 Length,0.5110 O.D.,NOTE: Some Castings May Require The Use of a +2 O/S (140-3009+2) W/ .513 O.D. As The Standard Replacement.	
	Spring	1990-93	160-1086	2.059 Length,W/ .313 Valve Stems
1994-97		160-1267	1.960 Length,Conical	
1998-02		160-1436	1.900 Length,Conical	
Lifter	Both	1990-93	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1990-93	VL73	Hydraulic Type
		1994-02	VL138	Hydraulic Roller Type
Rocker Components	Both	1990-97	181-1063	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) Nut
Push Rod	Both	1990-93	192-1484	7.700 Length,W/ .313 Valve Stems
		1994-97	192-1513	7.458 Length
		1998-02	190-1539	7.515 Length

GM / PASSENGER CAR (Cont'd)

55 134 C.I., (2.2L), OHV, GAS, FI, 8 Valve, Vin 4, G, LN2 GMC134
 (cont.) 1990-02 L4 134 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Head Bolt Set	1993-97	220-1025	Torque To Yield,VIN 4, Services Engine
	1998-02	220-1088	Torque To Yield,Services Engine
Head Saver Shim	1990-97	230-2021	New Hgt.- 5.3150 - 5.3200; Min. Hgt.- 5.3050
	1998-02	230-2115	New Hgt.- 5.3150 - 5.3200; Min. Hgt.- 5.3050

56 134 C.I., (2.2L), DOHC, GAS, FI, 16 Valve, Vin D, F, L61, ""Ecotec"" GMC2.2-L61
 2000-08 L4 134 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 2000-08	SB1437-69	1 ⁷ / ₁₆ O.D.,1.140T I.D.,0.2370 Depth,NOTE: Seat May Need To Be Machined .015""-.020"" To Achieve Correct Depth
	Exh 2000-08	SB1250-50	1 ¹ / ₄ O.D.,0.965T I.D., ¹ / ₄ Depth,NOTE: Seat May Need To Be Machined .015""-.020"" To Achieve Correct Depth
Valve	Int 2000-08	01997	1.382 Head Diameter,Includes Flex-Fuel Applications
	Exh 2000-06	02010S	1.185 Head Diameter,Stellite Face
	2007-08	02010	1.185 Head Diameter
Keeper	Both 2000-08	121-1098	3 RD Bead Type
Stem Seal	Both 2000-08	122-1355	Positive Type,Viton Material,Top Hat Style
Guide	Both 2000-08	140-3029	0.2365 I.D.,1.420 Length,0.3950 O.D.,NOTE: May Require +2 O/S (140-3029+2) Due To Factory Installed O/S Guide.
Spring	Both 2000-08	160-1508	1.678 Length
Lifter	Both 2000-08	VL175	Hydraulic Lash Adjuster Type
Head Bolt Set	2000-08	220-1100	Torque To Yield,Services Engine
Head Saver Shim	2000-08	230-2135	New Hgt. - 5.080 - 5.085,New Hgt.- 5.0800-5.0850; Min Hgt.- 5.0750

57 134 C.I., (2.2L), DOHC, FLEX, GAS, FI, 16 Valve, Vin 5, B, H, W, LAP, LE8, GMC2.2-ECO
 ""Ecotec"" 2009-11 L4 134 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 2009-11	SB1437-69	1 ⁷ / ₁₆ O.D.,1.140T I.D.,0.2370 Depth,NOTE: Seat May Need To Be Machined .015""-.020"" To Achieve Correct Depth
	Exh 2009-11	SB1250-50	1 ¹ / ₄ O.D.,0.965T I.D., ¹ / ₄ Depth,NOTE: Seat May Need To Be Machined .015""-.020"" To Achieve Correct Depth
Valve	Int 2009-11	01997	1.382 Head Diameter
	Exh 2009-11	02010	1.185 Head Diameter
Keeper	Both 2009-11	121-1098	3 RD Bead Type
Stem Seal	Both 2009-11	122-1355	Positive Type,Viton Material,Top Hat Style
Guide	Both 2009-11	140-3029	0.2365 I.D.,1.420 Length,0.3950 O.D.,NOTE: May Require +2 O/S (140-3029+2) Due To Factory Installed O/S Guide.; ID: 0.2365; OD: 0.3950; Length: 1.420; Type: 1-P
Spring	Both 2009-11	160-1508	1.678 Length
Lifter	Both 2009-11	VL175	Hydraulic Lash Adjuster Type
Head Bolt Set	2009-11	220-1100	Torque To Yield,Services Engine

58 138 C.I., (2.3L), DOHC, GAS, FI, 16 Valve, Vin D, ""Quad 4"" GMC2.3D
 1988-95 L4 138 CID BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1988-89	SB1500-74	1 ¹ / ₂ O.D.,1.180T I.D.,0.2140 Depth,W/ 1.398 Valve Head Dia.
	1990-95	SB1500-77	1 ¹ / ₂ O.D.,1.175T I.D.,0.2360 Depth,W/ 1.437 Valve Head Dia.
	Exh 1988-89	SB1250-56	1 ¹ / ₄ O.D.,0.905T I.D.,0.2300 Depth,W/ 1.182 Valve Head Dia.

(Cont'd) **GM / PASSENGER CAR**

138 C.I., (2.3L), DOHC, GAS, FI, 16 Valve, Vin D, ""Quad 4""
1988-95 L4 138 CID

GMC2.3D 58
BORE - 92mm/3.62"" (cont.)

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1990-95	SB1312-67	1 ⁵ / ₁₆ O.D.,1.042 I.D.,0.2380 Depth,W/ 1.238 Valve Head Dia.
Valve	Int	1988-89	01673	1.398 Head Diameter
		1990-95	01726	1.437 Head Diameter
	Exh	1988-89	01674	1.182 Head Diameter
		1990-95	01727	1.238 Head Diameter
Keeper	Both	1988-95	121-1072	1 RD Bead Type,Hardened
Stem Seal	Both	1988-95	122-1198	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1988-95	140-8124	0.2767 I.D.,1.740 Length,0.5140 O.D.,W/ Snap Ring
Spring	Both	1990-95	160-1112	1.710 Length,Conical
Lifter	Both	1988-94	VL116	Hydraulic Bucket Type
Head Bolt Set		1988-95	220-1013	Torque To Yield,Services Engine
Head Saver Shim		1988-95	230-2022	New Hgt.- 2.9150; Min. Hgt.- 2.9050

138 C.I., (2.3L), SOHC, GAS, FI, 8 Valve, Vin 3
1992-94 L4 138 CID

138-3 59
BORE - 92mm/3.62""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1992-94	SB1500-77	1 ¹ / ₂ O.D.,1.175T I.D.,0.2360 Depth
	Exh	1992-94	SB1312-67	1 ⁵ / ₁₆ O.D.,1.042 I.D.,0.2380 Depth
Valve	Int	1992-94	01726	1.437 Head Diameter
	Exh	1992-94	01727	1.238 Head Diameter
Keeper	Both	1992-94	121-1072	1 RD Bead Type,Hardened
Stem Seal	Both	1992-94	122-1198	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1992-94	140-8124	0.2767 I.D.,1.740 Length,0.5140 O.D.,W/ Snap Ring
Spring	Both	1992-94	160-1112	1.710 Length,Conical
Lifter	Both	1992-94	VL116	Hydraulic Bucket Type
Head Bolt Set		1992-94	220-1013	Torque To Yield,Services Engine
Head Saver Shim		1992-94	230-2022	New Hgt.- 2.9150; Min. Hgt.- 2.9050

140 C.I., (2.3L), SOHC, GAS, CARB, 8 Valve, Vin A, B
1971-77 L4 140 CID

140AB 60
BORE - 88.9mm/3.50""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1971-77	SB1750-1	1 ³ / ₄ O.D.,1 ¹ / ₂ I.D., ¹ / ₄ Depth,+10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh	1971-77	SB1437-1	1 ⁷ / ₁₆ O.D.,1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth
Keeper	Both	1976-77	121-1003	1 SQ Bead Type
Stem Seal	Both	1971-77	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
Spring	Both	1971-75	160-1144	2.048 Length,W/ Damper
Lifter	Both	1971-71	VL63	Mechanical High Performance Type

140 C.I., (2.3L), DOHC, GAS, FI, 16 Valve, Vin A, ""Quad 4""
1989-94 L4 140 CID

GMC2.3A 61
BORE - 92mm/3.62""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1989-94	SB1500-77	1 ¹ / ₂ O.D.,1.175T I.D.,0.2360 Depth
	Exh	1989-94	SB1312-67	1 ⁵ / ₁₆ O.D.,1.042 I.D.,0.2380 Depth
Valve	Int	1989-94	01726	1.437 Head Diameter
	Exh	1989-94	01727	1.238 Head Diameter
Keeper	Both	1989-94	121-1072	1 RD Bead Type,Hardened

GM / PASSENGER CAR (Cont'd)

61 140 C.I., (2.3L), DOHC, GAS, FI, 16 Valve, Vin A, ""Quad 4"" GMC2.3A
 (cont.) 1989-94 L4 140 CID BORE - 92mm/3.62""

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1989-94	122-1198	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1989-94	140-8124	0.2767 I.D.,1.740 Length,0.5140 O.D.,W/ Snap Ring
Spring	Both	1989-94	160-1112	1.710 Length,Conical
Lifter	Both	1989-94	VL116	Hydraulic Bucket Type
Head Bolt Set		1989-94	220-1013	Torque To Yield,Services Engine
Head Saver Shim		1989-94	230-2022	New Hgt.- 2.9150; Min. Hgt.- 2.9050

62 2362cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin 0, LAX, ""Toyota 2AZ-FE"" 2.4-2AZFE
 2009-10 L4 144 CID BORE - 88.5mm/3.48""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2009-10	10798	1.339 Head Diameter
	Exh	2009-10	10799	1.161 Head Diameter
Keeper	Both	2009-10	121-1100	1 RD Bead Type
Stem Seal	Int	2009-10	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2009-10	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2009-10	140-8585	0.2175 I.D.,1.590 Length,0.4075 O.D.
Head Saver Shim		2009-10	230-2143	New Hgt. - 5.090; Min. Hgt. - N/A

63 145 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin C, LAF, ""Ecotec"" GMC2.4-LAF
 2010-11 L4 145 CID BORE - 88mm/3.46""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2010-11	13293	1.382 Head Diameter
	Exh	2010-11	02010	1.185 Head Diameter
Keeper	Both	2010-11	121-1098	3 RD Bead Type
Stem Seal	Both	2010-11	122-1355	Positive Type,Viton Material,Top Hat Style
Guide	Both	2010-11	140-3029	0.2365 I.D.,1.420 Length,0.3950 O.D.,NOTE: May Require +2 O/S (140-3029+2) Due To Factory Installed O/S Guide.; ID: 0.2365; OD: 0.3950; Length: 1.420; Type: 1-P
Spring	Both	2010-11	160-1508	1.678 Length
Lifter	Both	2010-11	VL175	Hydraulic Lash Adjuster Type

64 145 C.I., (2.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin 5, LAT, ""Ecotec Hybrid"" GMC2.4-LAT
 2007-09 L4 145 CID BORE - 88mm/3.46""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2007-09	SB1437-69	1 ⁷ / ₁₆ O.D.,1.140T I.D.,0.2370 Depth,NOTE: Seat May Need To Be Machined .015""-.020"" To Achieve Correct Depth
	Exh	2007-09	SB1250-50	1 ¹ / ₄ O.D.,0.965T I.D., ¹ / ₄ Depth,NOTE: Seat May Need To Be Machined .015""-.020"" To Achieve Correct Depth
Valve	Int	2007-09	01997	1.382 Head Diameter
	Exh	2007-09	02010	1.185 Head Diameter
Keeper	Both	2007-09	121-1098	3 RD Bead Type
Stem Seal	Both	2007-09	122-1355	Positive Type,Viton Material,Top Hat Style
Guide	Both	2007-09	140-3029	0.2365 I.D.,1.420 Length,0.3950 O.D.,NOTE: May Require +2 O/S (140-3029+2) Due To Factory Installed O/S Guide
Spring	Both	2007-09	160-1508	1.678 Length
Lifter	Both	2007-09	VL175	Hydraulic Lash Adjuster Type

(Cont'd) GM / PASSENGER CAR

145 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin 0, 1, B, P, LE5, ""Ecotec"" GMC2.4-LE5 65
 2006-12 L4 145 CID BORE - 88mm/3.46""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2006-12	SB1437-69	1 ⁷ / ₁₆ O.D.,1.140T I.D.,0.2370 Depth,NOTE: Seat May Need To Be Machined .015""-.020"" To Achieve Correct Depth
	Exh	2006-12	SB1250-50	1 ¹ / ₄ O.D.,0.965T I.D., ¹ / ₄ Depth,NOTE: Seat May Need To Be Machined .015""-.020"" To Achieve Correct Depth
Valve	Int	2006-12	01997	1.382 Head Diameter
	Exh	2006-06	02010S	1.185 Head Diameter,Stellite Face
		2007-12	02010	1.185 Head Diameter
Keeper	Both	2006-12	121-1098	3 RD Bead Type
Stem Seal	Both	2006-12	122-1355	Positive Type,Viton Material,Top Hat Style
Guide	Both	2006-12	140-3029	0.2365 I.D.,1.420 Length,0.3950 O.D.,NOTE: May Require +2 O/S (140-3029+2) Due To Factory Installed O/S Guide.
Spring	Both	2006-12	160-1508	1.678 Length
Lifter	Both	2006-12	VL175	Hydraulic Lash Adjuster Type
Head Saver Shim		2006-12	230-2180	New Hgt. - 5.085; Min. Hgt. - 5.075

145 C.I., (2.4L), DOHC, FLEX, FI, 16 Valve, Vin 0, U, V, LE9, ""Ecotec"" GMC2.4-LE9 66
 2009-12 L4 145 CID BORE - 88mm/3.46""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2009-12	SB1437-69	1 ⁷ / ₁₆ O.D.,1.140T I.D.,0.2370 Depth,NOTE: Seat May Need To Be Machined .015""-.020"" To Achieve Correct Depth; OD: 1 ⁷ / ₁₆ ; ID: 1.140T
	Exh	2009-12	SB1250-50	1 ¹ / ₄ O.D.,0.965T I.D., ¹ / ₄ Depth,NOTE: Seat May Need To Be Machined .015""-.020"" To Achieve Correct Depth; OD: 1 ¹ / ₄ ; ID: 0.965T
Valve	Int	2009-12	01997	1.382 Head Diameter,Includes Flex-Fuel Applications
	Exh	2009-12	02010	1.185 Head Diameter
Keeper	Both	2009-12	121-1098	3 RD Bead Type
Stem Seal	Both	2009-12	122-1355	Positive Type,Viton Material,Top Hat Style
Guide	Both	2009-12	140-3029	0.2365 I.D.,1.420 Length,0.3950 O.D.,NOTE: May Require +2 O/S (140-3029+2) Due To Factory Installed O/S Guide.
Spring	Both	2009-12	160-1508	1.678 Length
Lifter	Both	2009-12	VL175	Hydraulic Lash Adjuster Type

145 C.I., (2.4L), DOHC, FLEX, FI, 16 Valve, Vin K, LEA, ""Ecotec"" GMC2.4-LEA 67
 2012-17 L4 145 CID BORE - 88mm/3.46""

PART		YEARS	PART NO.	NOTES
Valve	Int	2012-17	13293	1.382 Head Diameter
	Exh	2012-17	02010	1.185 Head Diameter
Keeper	Both	2012-17	121-1098	3 RD Bead Type
Stem Seal	Both	2012-17	122-1355	Positive Type,Viton Material,Top Hat Style
Guide	Both	2012-17	140-3029	0.2365 I.D.,1.420 Length,0.3950 O.D.,NOTE: May Require +2 O/S (140-3029+2) Due To Factory Installed O/S Guide.; ID: 0.2365; OD: 0.3950; Length: 1.420; Type: 1-P
Spring	Both	2012-17	160-1508	1.678 Length
Lifter	Both	2012-17	VL175	Hydraulic Lash Adjuster Type

GM / PASSENGER CAR (Cont'd)

68 145 C.I., (2.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin R, LUK, ""Ecotec Hybrid""
 2012-16 L4 145 CID GMC2.4-LUK
 BORE - 88mm/3.46""

PART		YEARS	PART NO.	NOTES
Valve	Int	2012-16	13293	1.382 Head Diameter
	Exh	2012-16	02010	1.185 Head Diameter
Keeper	Both	2012-16	121-1098	3 RD Bead Type
Stem Seal	Both	2012-16	122-1355	Positive Type,Viton Material,Top Hat Style
Guide	Both	2012-16	140-3029	0.2365 I.D.,1.420 Length,0.3950 O.D.
Spring	Both	2012-16	160-1508	1.678 Length
Lifter	Both	2012-16	VL175	Hydraulic Lash Adjuster Type

69 146 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin T, ""Oldsmobile""
 1996-02 L4 146 CID GMC2.4T
 BORE - 90mm/3.54""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1996-02	SB1250-50	1¼ O.D.,0.965T I.D.,¼ Depth
Valve	Int	1996-02	01941	1.396 Head Diameter,0.020 Shorter Than OEM.,4.207 Overall Length
	Exh	1996-02	01937	1.141 Head Diameter,0.020 Shorter Than OEM.,4.238 Overall Length
Keeper	Both	1996-02	121-1081	1 RD Bead Type
Stem Seal	Both	1996-02	122-1276	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1996-02	140-8670	0.2354 I.D.,1.654 Length,0.4350 O.D.,W/ Snap Ring
	Exh	1996-02	140-8671	0.2354 I.D.,1.654 Length,0.4350 O.D.,W/ Snap Ring
Spring	Both	1996-02	160-1338	1.800 Length,Conical,Tapered
Head Saver Shim		1996-99	230-2073	ALL With EGR, NOTE: Except 1999 W/O EGR, New Hgt.-2.275 (Front Head Bolt Boss), Min. Hgt.- 2.265

70 150 C.I., (2.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin Z, LHN, ""Hybrid""
 2018-19 L4 150 CID GMC2.5-LHN
 BORE - 88mm/3.46""

PART		YEARS	PART NO.	NOTES
Valve	Int	2018-19	13441	1.437 Head Diameter
	Exh	2018-19	13442	1.142 Head Diameter
Keeper	Both	2018-19	121-1127	1 RD Bead Type
Stem Seal	Both	2018-19	122-1418	Positive Type,Viton Material,Top Hat Style
Spring	Both	2018-19	160-1588	1.729 Length,Conical
Lifter	Both	2018-19	VL175	Hydraulic Lash Adjuster Type

71 151 C.I., (2.5L), OHV, GAS, CARB, 8 Valve, Vin V
 1977-80 L4 151 CID 151V
 BORE - 101.6mm/4.00""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1977-80	SB1812-4	1 ¹³ / ₁₆ O.D.,1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1977-80	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Exh	1979-80	01814	1.500 Head Diameter,0.020 Shorter Than OEM, Square Groove,4.600 Overall Length
Keeper	Both	1977-80	121-1003	1 SQ Bead Type
Stem Seal	Both	1977-80	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1977-80	122-1043	O-Ring Type,Nitrile Material,O-Ring Style

(Cont'd) GM / PASSENGER CAR**151 C.I., (2.5L), OHV, GAS, CARB, 8 Valve, Vin V**
1977-80 L4 151 CID**151V 71**
BORE - 101.6mm/4.00" (cont.)

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1977-80	122-1048	Positive Type,Poly Material,2-Ring Style,W/ .341 Stem Dia. & Use W/ Factory Guide Boss
		1977-80	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Both	1977-80	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1977-80	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1977-80	160-1125	2.050 Length,W/ Damper
Lifter	Both	1977-80	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1977-80	VL73	Hydraulic Type
Rocker Components	Both	1977-80	184-1038	Nut, 3/8
Push Rod	Both	1977-78	192-1330	9.682 Length

151 C.I., (2.5L), OHV, GAS, CARB, 8 Valve, Vin 5, F, V
1980-83 L4 151 CID**151-5FV 72**
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1980-83	SB1812-4	1 ¹³ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1980-83	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Exh	1980-83	01814	1.500 Head Diameter,0.020 Shorter Than OEM, Square Groove
Keeper	Both	1980-83	121-1003	1 SQ Bead Type
Stem Seal	Both	1980-83	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1980-83	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1980-83	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
		1980-83	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Both	1980-83	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1980-83	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1980-83	160-1125	2.050 Length,W/ Damper
Lifter	Both	1980-83	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1980-83	VL73	Hydraulic Type
Rocker Components	Both	1980-83	181-1017	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball
Push Rod	Both	1982-83	192-1453	8.975 Length

151 C.I., (2.5L), OHV, GAS, CARB, 8 Valve, Vin 1, ""California""
1978-79 L4 151 CID**151-1 73**
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1978-79	SB1812-4	1 ¹³ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1978-79	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Keeper	Both	1978-79	121-1003	1 SQ Bead Type

GM / PASSENGER CAR (Cont'd)

73 151 C.I., (2.5L), OHV, GAS, CARB, 8 Valve, Vin 1, ""California"" 151-1
 (cont.) 1978-79 L4 151 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1978-79	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1978-79	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1978-79	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
		1978-79	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Both	1978-79	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1978-79	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1978-79	160-1125	2.050 Length,W/ Damper
Lifter	Both	1978-79	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1978-79	VL73	Hydraulic Type
Rocker Components	Both	1978-79	184-1038	Nut, 3/8
Push Rod	Both	1978-78	192-1330	9.682 Length

74 151 C.I., (2.5L), OHV, GAS, CARB, 8 Valve, Vin 9 151-9
 1979-79 L4 151 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1979-79	SB1812-4	1 ¹³ / ₁₆ O.D.,1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1979-79	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Exh	1979-79	01814	1.500 Head Diameter,0.020 Shorter Than OEM, Square Groove
Keeper	Both	1979-79	121-1003	1 SQ Bead Type
Stem Seal	Both	1979-79	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1979-79	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1979-79	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
		1979-79	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Both	1979-79	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1979-79	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1979-79	160-1125	2.050 Length,W/ Damper
Lifter	Both	1979-79	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1979-79	VL73	Hydraulic Type
Rocker Components	Both	1979-79	184-1038	Nut, 3/8

75 151 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin 2 151-2
 1982-86 L4 151 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1982-86	SB1812-4	1 ¹³ / ₁₆ O.D.,1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1982-86	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

(Cont'd) GM / PASSENGER CAR**151 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin 2**
1982-86 L4 151 CID151-2 **75**
BORE - 101.6mm/4.00"" (cont.)

PART		YEARS	PART NO.	NOTES
Valve	Exh	1982-86	01814	1.500 Head Diameter,0.020 Shorter Than OEM, Square Groove
Keeper	Both	1982-86	121-1003	1 SQ Bead Type
Stem Seal	Both	1982-86	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1982-86	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1982-86	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
		1982-86	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Both	1982-86	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1982-86	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1982-86	160-1125	2.050 Length,W/ Damper
Lifter	Both	1982-84	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1982-84	VL73	Hydraulic Type
		1985-86	VL115	Hydraulic Roller Type,Always Install Oil Hole Up To Valley On ""V"" Style Engines.
Rocker Components	Both	1982-86	181-1017	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball
Push Rod	Both	1982-84	192-1453	8.975 Length
		1985-86	192-1462	8.383 Length,W/ Roller Lifters
Head Bolt Set		1985-86	220-1015	Torque To Yield,Services Engine

151 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin R, ""Pontiac""
1982-91 L4 151 CID151R **76**
BORE - 101.6mm/4.00""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1982-91	SB1812-4	1 ³ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1982-91	SB1562-1	1 ¹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1987-88	01551	1.720 Head Diameter,W/ .3135 Stem Dia., Round Groove, 4.394 Overall Length, +15 O/S Stem Available
		1989-91	01592	1.720 Head Diameter,W/ .3135 Stem Dia., Round Groove, 4.591 Overall Length, +15 O/S Stem Available
	Exh	1982-86	01814	1.500 Head Diameter,0.020 Shorter Than OEM, Square Groove,W/ .3415 Stem Dia.
		1987-88	01550+15	1.500 Head Diameter,Optional +15 O/S Stem W/.3282T Stem Dia., Round Groove, 4.355 Overall Length; NOTE: 01550 Std. Stem Valve W/.3132T NOT AVAILABLE
		1989-91	01591	1.500 Head Diameter,W/ .3133T Stem Dia., Round Groove, 4.541 Overall Length, +15 O/S Stem Available
Keeper	Both	1982-86	121-1003	1 SQ Bead Type
		1987-91	121-1021	1 RD Bead Type
Stem Seal	Both	1982-86	122-1037	Umbrella Type,Poly Material,Umbrella Style,W/ .341 Stem Dia.
		1982-86	122-1043	O-Ring Type,Nitrile Material,O-Ring Style,W/ .341 Stem Dia.
		1982-86	122-1048	Positive Type,Poly Material,2-Ring Style,W/ .341 Stem Dia. & Use W/ Factory Guide Boss
		1982-86	122-1270	Umbrella Type,Viton Material,Umbrella Style
		1987-91	122-1077	Positive Type,Viton Material, Ring & Band Style
Guide	Both	1982-86	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)

GM / PASSENGER CAR (Cont'd)

76 151 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin R, ""Pontiac"" 151R
 (cont.) 1982-91 L4 151 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Guide	Both	1982-86	140-9607 0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)	
		1987-91		140-8040 0.3150 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1982-85	160-1125	2.050 Length,W/ Damper
		1987-88	160-1099	1.780 Length,W/ Shroud
		1989-90	160-1083	2.093 Length,W/ External Shroud
		1989-90	160-1475	2.010 Length,W/Damper,Alternative Version To 160-1083, May Require Spring Seat
Lifter	Both	1982-84	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1982-84	VL73	Hydraulic Type
		1985-91	VL115	Hydraulic Roller Type,Always Install Oil Hole Up To Valley On ""V"" Style Engines.
Rocker Components	Both	1982-91	181-1017	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball
Push Rod	Both	1982-84	192-1453	8.975 Length
		1985-86	192-1462	8.383 Length,W/ Roller Lifters
		1987-91	192-1480	8.272 Length,W/ Roller Lifters
Head Bolt Set		1985-91	220-1015	Torque To Yield,Services Engine
Head Saver Shim		1982-91	230-2024	New Hgt.- 3.2500

77 151 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin U 151U
 1985-91 L4 151 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1985-91	SB1812-4 1 ¹³ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material	
	Exh	1985-91		SB1562-1 1 ¹ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1987-88	01551	1.720 Head Diameter,W/ .3135 Stem Dia. Round Groove, 4.394 Overall Length, +15 O/S Stem Available
		1989-91	01592	1.720 Head Diameter,W/ .3135 Stem Dia. Round Groove, 4.591 Overall Length, +15 O/S Stem Available
	Exh	1985-86	01814	1.500 Head Diameter,0.020 Shorter Than OEM, Square Groove,W/ .3415 Stem Dia.
		1987-88	01550+15	1.500 Head Diameter,Optional +15 O/S Stem W/.3282T Stem Dia., Round Groove, 4.355 Overall Length; NOTE: 01550 Std. Stem Valve W/.3132T NOT AVAILABLE
	1989-91	01591	1.500 Head Diameter,W/ .3133T Stem Dia. Round Groove, 4.541 Overall Length, +15 O/S Stem Available	
Keeper	Both	1985-86	121-1003	1 SQ Bead Type
		1987-91	121-1021	1 RD Bead Type
Stem Seal	Both	1985-86	122-1037	Umbrella Type,Poly Material,Umbrella Style,W/ .341 Stem Dia.
		1985-86	122-1043	O-Ring Type,Nitrile Material,O-Ring Style,W/ .341 Stem Dia.
		1985-86	122-1048	Positive Type,Poly Material,2-Ring Style,W/ .341 Stem Dia. & Use W/ Factory Guide Boss
	1985-86	122-1270	Umbrella Type,Viton Material,Umbrella Style	
	1987-91	122-1077	Positive Type,Viton Material, Ring & Band Style	
Guide	Both	1985-86	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2),+2 O/S & -5 U/S I.D. Available

(Cont'd) GM / PASSENGER CAR**151 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin U**
1985-91 L4 151 CID**151U 77**
BORE - 101.6mm/4.00" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Both	1985-86	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U) 0.3150 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide	
		1987-91		140-8040
Spring	Both	1985-86	160-1125	2.050 Length,W/ Damper
		1987-88	160-1099	1.780 Length,W/ Shroud
		1989-90	160-1083	2.093 Length,W/ External Shroud
		1989-90	160-1475	2.010 Length,W/Damper,Alternative Version To 160-1083, May Require Spring Seat
Lifter	Both	1985-91	VL115	Hydraulic Roller Type,Always Install Oil Hole Up To Valley On "V" Style Engines.
Rocker Components	Both	1985-91	181-1017	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball
Push Rod	Both	1985-86	192-1462	8.383 Length,W/ Roller Lifters
		1987-91	192-1480	8.272 Length,W/ Roller Lifters

153 C.I., (2.5L), OHV, GAS, CARB, 8 Valve
1962-70 L4 153 CID**GMC153 78**
BORE - 98.4mm/3.88"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1962-70	SB1812-3 SB1562-2	1 ³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth 1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ T I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
	Exh	1962-70		
Valve	Int	1962-70	00399	1.720 Head Diameter,+15 O/S Stem Available
		1962-70	01193	1.720 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
	Exh	1962-70	00400	1.500 Head Diameter,+3 & +15 O/S Stem Available
		1962-70	01192	1.500 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
	1962-70	01206S	1.500 Head Diameter,Stellite Face,Optional Material & Chrome Plated, +15 O/S Stem Available	
Keeper	Both	1962-70	121-1003	1 SQ Bead Type
Stem Seal	Both	1962-70	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1962-70	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1962-70	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
	1962-70	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems	
	1962-70	122-1270	Umbrella Type,Viton Material,Umbrella Style	
Guide	Int	1962-70	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1962-70	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1962-70	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1962-70	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1962-63	160-1117	2.030 Length,1st Design
		1963-70	160-1125	2.050 Length,W/ Damper,2nd Design
Rotator	Exh	1962-70	161-1012	
Lifter	Both	1962-70	VL63	Mechanical High Performance Type
Rocker Components	Both	1962-70	181-1012	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut

GM / PASSENGER CAR (Cont'd)

78 153 C.I., (2.5L), OHV, GAS, CARB, 8 Valve GMC153
 (cont.) 1962-70 L4 153 CID BORE - 98.4mm/3.88"

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	1962-70	183-1024	Smooth Ball, 3/8 Nut, 3/8
		1962-70	184-1038	
Push Rod	Both	1962-70	192-1330	9.682 Length

79 153 C.I., (2.5L), DOHC, FLEX, GAS, FI, 16 Valve, Vin A, LCV, ""Ecotec"" GMC2.5-LCV
 2013-19 L4 153 CID BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2013-19	13441	1.437 Head Diameter
	Exh	2013-19	13442	1.142 Head Diameter
Keeper	Both	2013-19	121-1127	1 RD Bead Type
Stem Seal	Both	2013-17	122-1495	Positive Type,Viton Material,Top Hat Style,NOTE: Malibu Only 2013-17, Impala 2016
		2013-19	122-1418	Positive Type,Viton Material,Top Hat Style,NOTE: ATS 2013-16, Impala 2017-18
Spring	Both	2013-19	160-1588	1.729 Length,Conical
Lifter	Both	2013-19	VL175	Hydraulic Lash Adjuster Type

80 153 C.I., (2.5L), DOHC, GAS, FI, 16 Valve, Vin L, LKW, ""Ecotec"" GMC2.5-LKW
 2014-15 L4 153 CID BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2014-15	13441	1.437 Head Diameter
	Exh	2014-15	13442	1.142 Head Diameter
Keeper	Both	2014-15	121-1127	1 RD Bead Type
Stem Seal	Both	2014-15	122-1418	Positive Type,Viton Material,Top Hat Style,NOTE: Impala
		2014-15	122-1495	Positive Type,Viton Material,Top Hat Style,NOTE: Malibu
Spring	Both	2014-15	160-1588	1.729 Length,Conical

81 170 C.I., (2.8L), DOHC, GAS, FI, 24 Valve, Vin T, LP1, ""High Feature V6"" GMC2.8-LP1
 2005-07 V6 170 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2005-07	13211	1.384 Head Diameter
	Exh	2005-07	13082	1.205 Head Diameter
Keeper	Both	2005-07	121-1127	1 RD Bead Type
Stem Seal	Both	2005-07	122-1418	Positive Type,Viton Material,Top Hat Style
Guide	Both	2005-07	140-3112	0.2365 I.D.,1.655 Length,0.4358 O.D.
Spring	Both	2005-07	160-1588	1.729 Length,Conical
Lifter	Both	2005-07	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2005-07	180-1323	Cam Follower

82 173 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, Vin 1, 7, X, Z 173XZ71
 1980-84 V6 173 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1980-84	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.600 Valve Head Dia., Cast Iron Cylinder Head
		1980-84	SB1812-4	
	Exh	1980-84	SB1437-4	
				1 ⁷ / ₁₆ O.D.,1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth,W/ 1.307 Valve Head Dia., Cast Iron Cylinder Head

(Cont'd) **GM / PASSENGER CAR**

173 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, Vin 1, 7, X, Z
1980-84 V6 173 CID

173XZ71 **82**
BORE - 89mm/3.50" (cont.)

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1980-84	SB1500-1	1½ O.D., 1¼ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.425 Valve Head Dia., Cast Iron Cylinder Head
Valve	Int	1980-84	01395	1.600 Head Diameter, Except H.O.
		1980-84	01481	1.718 Head Diameter, H.O., +15 O/S Stem Available
	Exh	1980-84	01394	1.307 Head Diameter, Except H.O.
		1980-84	01480	1.425 Head Diameter, H.O., +15 O/S Stem Available
Keeper	Both	1980-84	121-1003	1 SQ Bead Type
Stem Seal	Both	1980-84	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1980-84	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1980-84	122-1047	Positive Type, Poly Material, 2-Ring Style
		1980-84	122-1270	Umbrella Type, Viton Material, Umbrella Style
Guide	Both	1980-84	140-9560	0.3440 I.D., 2.000 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1980-80	160-1009	1.910 Length, W/ Damper
Rotator	Exh	1983-84	161-1012	
Lifter	Both	1980-84	VL94	Hydraulic Type
Rocker Components	Both	1980-84	181-1016	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 10mm Nut
		1980-84	183-1015	Smooth Ball, 10mm, Use W/ Metric Threaded Rocker Arm Stud
		1980-84	184-1025	Stud, 10mm, Adjustable
		1980-84	184-1032	Nut, 10mm, Adjustable
Push Rod	Both	1980-84	192-1444	6.162 Length
Head Saver Shim		1980-84	230-2025	New Hgt. - 3.5805 - 3.5950; Min. Hgt. - 3.5750, 2 Required

173 C.I., (2.8L), OHV, GAS, FI, 12 Valve, Vin S, W
1985-89 V6 173 CID

173SW **83**
BORE - 89mm/3.50" (cont.)

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1985-86	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.600 Valve Head Dia., Cast Iron Cylinder Head
		1985-89	SB1812-4	1 ¹³ / ₁₆ O.D., 1 ⁹ / ₁₆ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.718 Valve Head Dia., Cast Iron Cylinder Head
		1987-89	SB1750-65	1¾ O.D., 1.468 I.D., 0.2760 Depth, Aluminum Cylinder Head
	Exh	1985-86	SB1437-4	1 ⁷ / ₁₆ O.D., 1 ¹ / ₈ I.D., 7/32 Depth, W/ 1.307 Valve Head Dia., Cast Iron Heads,
		1985-89	SB1500-1	1½ O.D., 1¼ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.425 Valve Head Dia., Cast Iron Heads
		1987-89	SB1500-73	1½ O.D., 1.230 I.D., 0.2780 Depth, Also Available In Non-Magnetic (N) Material, Aluminum Cylinder Head
Valve	Int	1985-86	01395	1.600 Head Diameter, Except H.O., 0.341 Stem Dia.
		1985-89	01481	1.718 Head Diameter, H.O., 0.3412 Stem Dia., +15 O/S Stem Available
		1987-89	02057	1.718 Head Diameter, 0.020 Shorter Than OEM, W/ .3140 Stem Dia., Aluminum Head, Exc. H.O.
	Exh	1985-86	01394	1.307 Head Diameter, Except H.O., 0.341 Stem Dia.
		1985-89	01480	1.425 Head Diameter, H.O., W/ .3413 Stem Dia., +15 O/S Stem Available
		1987-89	02058	1.425 Head Diameter, 0.020 Shorter Than OEM, W/ .3136 Stem Dia., Aluminum Head, Exc. H.O.
Keeper	Both	1985-89	121-1003	1 SQ Bead Type, W/ .341 Stem Dia.

GM / PASSENGER CAR (Cont'd)

83 173 C.I., (2.8L), OHV, GAS, FI, 12 Valve, Vin S, W 173SW
 (cont.) 1985-89 V6 173 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Keeper	Both	1987-89 121-1021	1 RD Bead Type
Stem Seal	Both	1985-87 122-1037 1985-87 122-1043 1985-87 122-1047 1985-87 122-1270 1985-89 122-1069	Umbrella Type, Poly Material, Umbrella Style, W/ .341 Stem Dia. O-Ring Type, Nitrile Material, O-Ring Style, W/ .341 Stem Dia. Positive Type, Poly Material, 2-Ring Style, 0.341 Stem Dia. Umbrella Type, Viton Material, Umbrella Style Positive Type, Viton Material, Ring & Band Style, W/ .314 Stem Dia.
Guide	Both	1985-89 140-9560 1987-89 140-8112	0.3440 I.D., 2.000 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Cast Iron Head 0.3155 I.D., 2.085 Length, 0.5530 O.D., W/ Snap Ring, Aluminum Head, +2 O/S Available
Spring	Both	1987-89 160-1076	2.110 Length
Rotator	Exh	1985-89 161-1012	
Lifter	Both	1985-89 VL94	Hydraulic Type
Rocker Components	Both	1985-86 184-1025 1985-86 184-1032 1985-89 181-1016 1985-89 183-1015 1987-89 184-1033	Stud, 10mm, Adjustable Nut, 10mm, Adjustable Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 10mm Nut Smooth Ball, 10mm, Use W/ Metric Threaded Rocker Arm Stud Nut, 8mm, Non-Adjustable
Push Rod	Int Exh Both	1987-89 192-1481 1987-89 192-1482 1985-89 192-1444	6.043 Length, Alum. Cyl. Head & MFI 6.390 Length, - 40 U/S (192-1482U40) Available, Alum. Cyl. Head & MFI 6.162 Length
Head Bolt Set		1987-89 220-1085	Torque To Yield, VIN W Only, Aluminum Cyl. Head, Services Engine
Head Saver Shim		1985-89 230-2025	New Hgt.- 3.5805 - 3.5950; Min. Hgt.- 3.5750, 2 Required

84 181 C.I., (3.0L), OHV, GAS, CARB, 12 Valve, Vin E 181E
 1982-84 V6 181 CID BORE - 96.5mm/3.80"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1982-84 SB1812-3 1982-84 SB1562-2	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., 7 ³ / ₃₂ Depth 1 ¹ / ₁₆ O.D., 1 ¹⁵ / ₁₆ T I.D., 1 ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int Exh	1982-84 01388 1982-84 01387 1982-84 01389	1.710 Head Diameter, Square Groove, 0.3407 Stem, 4.713 Overall Length 1.500 Head Diameter, W/ Seal Groove 1.500 Head Diameter, Square Groove, 0.3408 Stem, 4.718 Overall Length, W/O Seal Groove
Keeper	Both	1982-84 121-1003	1 SQ Bead Type
Stem Seal	Both	1982-84 122-1075	Positive Type, Viton Material, Ring & Band Style
Guide	Int Exh	1982-84 140-7459 1982-84 140-9459 1982-84 140-5604 1982-84 140-9604	0.3430 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide 0.3430 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide 0.3440 I.D., 2.625 Length, 0.5020 O.D., Plain I.D. Conversion Guide, +2 O/S Available 0.3440 I.D., 2.625 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1982-84 160-1076	2.110 Length
Lifter	Both	1982-84 VL117RH	Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train.

(Cont'd) **GM / PASSENGER CAR**

181 C.I., (3.0L), OHV, GAS, CARB, 12 Valve, Vin E
1982-84 V6 181 CID

181E **84**
BORE - 96.5mm/3.80" (cont.)

PART	YEARS	PART NO.	NOTES	
Lifter	Both	1982-84 VL73	Hydraulic Type	
Rocker Components	Both	1982-84 1982-84 1982-84	180-1040 180-1041 187-1014	Rocker Arm, Stamped Steel,R.H. Rocker Arm, Stamped Steel,L.H. Retainer
Push Rod	Both	1982-84	190-1433	8.686 Length,Note: (Hardened); +60 O/S (190-1433+60) Available

181 C.I., (3.0L), OHV, GAS, FI, 12 Valve, Vin L
1985-88 V6 181 CID

181L **85**
BORE - 96.5mm/3.80"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1985-88 1985-88	SB1812-3 SB1562-9	1 ³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth 1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int Exh	1985-88 1985-88 1985-88	01388 01387 01389	1.710 Head Diameter,Square Groove,0.3407 Stem, 4.713 Overall Length 1.500 Head Diameter,W/ Seal Groove 1.500 Head Diameter,Square Groove,0.3408 Stem, 4.718 Overall Length, W/O Seal Groove
Keeper	Both	1985-88	121-1003	1 SQ Bead Type
Stem Seal	Int Exh Both	1988-88 1988-88 1985-87	122-1217 122-1218 122-1075	Positive Type,Viton Material,Ring & Band Style Positive Type,Viton Material,Ring & Band Style Positive Type,Viton Material,Ring & Band Style
Guide	Int Exh	1985-88 1985-88 1985-88 1985-88	140-7459 140-9459 140-5604 140-9604	0.3430 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide 0.3430 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide 0.3440 I.D.,2.625 Length,0.5020 O.D.,Plain I.D. Conversion Guide,+2 O/S Available 0.3440 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1985-86	160-1076	2.110 Length
Lifter	Both	1985-88 1985-88	VL117RH VL73	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train. Hydraulic Type
Rocker Components	Both	1985-88	183-1014	Fulcrum, Short

181 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin R
1997-05 V6 181 CID

GMC181R **86**
BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1997-05 1997-05	SB1375E-1 SB1187-52	1.375 O.D.,1.100T I.D.,0.2270 Depth,OEM Replacement, +10 O/S Available,Note: Seat May Need To Be Machined To Achieve Correct Depth, Must Use Adjustable Cutter 1 ³ / ₁₆ O.D.,0.934T I.D.,0.2570 Depth,Note: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int Exh	1997-05 1997-05 1997-05	10784 02040S 22040S	1.260 Head Diameter 1.142 Head Diameter,Recommended OEM Nickel Base Inconel Material, Stellite Face,Replaces Early Style Sodium Valve. 1.142 Head Diameter,Alternative Austenitic Material, Stellite Face
Keeper	Both	1997-05	121-1098	3 RD Bead Type
Stem Seal	Both	1997-05	122-1329	Positive Type,Viton Material,Metal Clad Style

GM / PASSENGER CAR (Cont'd)

86 181 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin R GMC181R
 (cont.) 1997-05 V6 181 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Guide	Int	1997-05	140-3010	0.2362 I.D., 1.773 Length, 0.3950 O.D.
	Exh	1997-05	140-3011	0.2362 I.D., 1.378 Length, 0.3950 O.D.
Lifter	Both	1997-01	VL571	Hydraulic Bucket Type
Head Bolt Set		1997-05	220-1092	Torque To Yield, 2 Required
Head Saver Shim		1997-05	230-2173	New Hgt. - 5.272 - 5.280; Min Hgt. - 5.272

87 182 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin G, Y, LF1, ""High Feature V6"" GMC3.0-LF1
 2010-11 V6 182 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2010-11	13211	1.384 Head Diameter
	Exh	2010-11	13212	1.205 Head Diameter
Keeper	Both	2010-11	121-1127	1 RD Bead Type
Stem Seal	Both	2010-11	122-1418	Positive Type, Viton Material, Top Hat Style
Guide	Both	2010-11	140-3112	0.2365 I.D., 1.655 Length, 0.4358 O.D.
Spring	Both	2010-11	160-1588	1.729 Length, Conical
Lifter	Both	2010-11	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2010-11	180-1323	Cam Follower

88 182 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin 5, LFW, ""High Feature V6"" GMC3.0-LFW
 2012-14 V6 182 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2012-14	13211	1.384 Head Diameter
	Exh	2012-14	13212	1.205 Head Diameter
Keeper	Both	2012-14	121-1127	1 RD Bead Type
Stem Seal	Both	2012-14	122-1418	Positive Type, Viton Material, Top Hat Style
Spring	Both	2012-12	160-1579	1.760 Length, Conical
		2013-14	160-1588	1.729 Length, Conical
Lifter	Both	2012-14	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2012-14	180-1323	Cam Follower

89 182 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin 6, LGW, ""TURBO"" GMC3.0-LGW
 2016-19 V6 182 CID BORE - 86mm/3.38"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2016-19	121-1098	3 RD Bead Type
Stem Seal	Both	2016-19	122-1509	Positive Type, Viton Material, Top Hat Style
Spring	Both	2016-19	160-1700	1.783 Length, Conical
Lifter	Both	2016-19	VL175	Hydraulic Lash Adjuster Type, W/O Duel Feed

90 189 C.I., (3.1L), OHV, GAS, FI, 12 Valve, Vin T 189T
 1988-94 V6 189 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-94	SB1750-65	1 ³ / ₄ O.D., 1.468 I.D., 0.2760 Depth, Aluminum Cylinder Head
		1988-94	SB1812-4	
	Exh	1988-94	SB1500-1	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., 7 ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, Cast Iron Cylinder Head
		1988-94	SB1500-73	

(Cont'd) **GM / PASSENGER CAR**

189 C.I., (3.1L), OHV, GAS, FI, 12 Valve, Vin T
1988-94 V6 189 CID

189T **90**
BORE - 89mm/3.50" (cont.)

PART	YEARS	PART NO.	NOTES	
Valve	Int	1988-94	01481	1.718 Head Diameter,W/ .3412 Stem Dia., Cast Iron Head, +15 O/S Stem Available
		1988-94	02057	1.718 Head Diameter,0.020 Shorter Than OEM,W/ .3140 Stem Dia., Aluminum Head
	Exh	1988-94	01480	1.425 Head Diameter,W/ .3413 Stem Dia., Cast Iron Head, +15 O/S Stem Available
		1988-94	02058	1.425 Head Diameter,0.020 Shorter Than OEM,W/ .3136 Stem Dia., Aluminum Head
Keeper	Both	1988-94	121-1003	1 SQ Bead Type,W/ 11/32" Stem Dia.
		1988-94	121-1021	1 RD Bead Type,W/ 5/16" Stem Dia.
Stem Seal	Both	1988-94	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1988-94	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1988-94	122-1069	Positive Type,Viton Material, Ring & Band Style,W/ .314 Stem Dia.
		1988-94	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Both	1988-94	140-8112	0.3155 I.D.,2.085 Length,0.5530 O.D.,W/ Snap Ring,Aluminum Head, +2 O/S Available
		1988-94	140-9560	0.3440 I.D.,2.000 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Cast Iron Head
Spring	Both	1988-94	160-1076	2.110 Length,Exc. 1990-92 Camaro & Firebird
Lifter	Both	1988-94	VL94	Hydraulic Type
Rocker Components	Both	1988-94	181-1016	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 10mm Nut,Adjustable
		1988-94	183-1015	Smooth Ball, 10mm,Use W/ Metric Threaded Rocker Arm Stud
		1988-94	184-1025	Stud, 10mm,Adjustable
		1988-94	184-1032	Nut, 10mm,Adjustable
		1988-94	184-1033	Nut, 8mm,Non-Adjustable
Push Rod	Int	1988-94	192-1481	6.043 Length,Alum. Cyl. Head & MFI
	Exh	1988-94	192-1482	6.390 Length,- 40 U/S (192-1482U40) Available,Alum. Cyl. Head & MFI
	Both	1988-94	192-1444	6.162 Length
Head Bolt Set		1988-94	220-1085	Torque To Yield,"FWD", Services Engine
Head Saver Shim		1988-94	230-2025	New Hgt.- 3.5850 - 3.5950; Min. Hgt.- 3.5750, 2 Required

189 C.I., (3.1L), OHV, GAS, FI, 12 Valve, Vin V, LG5, ""TURBO""
1989-90 V6 189 CID

189V **91**
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1989-90	SB1750-65	1 3/4 O.D.,1.468 I.D.,0.2760 Depth,Aluminum Cylinder Head
		1989-90	SB1812-4	1 13/16 O.D.,1 1/16 I.D.,7/32 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,Cast Iron Cylinder Head
	Exh	1989-90	SB1500-1	1 1/2 O.D.,1 1/4 I.D.,7/32 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		1989-90	SB1500-73	1 1/2 O.D.,1.230 I.D.,0.2780 Depth,Also Available In Non-Magnetic (N) Material,Aluminum Cylinder Head
Valve	Int	1989-90	02057	1.718 Head Diameter,0.020 Shorter Than OEM,Aluminum Head
	Exh	1989-90	02058	1.425 Head Diameter,0.020 Shorter Than OEM,Aluminum Head
Keeper	Both	1989-90	121-1021	1 RD Bead Type
Stem Seal	Both	1989-90	122-1069	Positive Type,Viton Material, Ring & Band Style

GM / PASSENGER CAR (Cont'd)

91 189 C.I., (3.1L), OHV, GAS, FI, 12 Valve, Vin V, LG5, ""TURBO"" 189V
 (cont.) 1989-90 V6 189 CID BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES
Guide	Both	1989-90 140-8112	0.3155 I.D.,2.085 Length,0.5530 O.D.,W/ Snap Ring,Aluminum Head, +2 O/S Available
Spring	Both	1989-90 160-1076	2.110 Length
Lifter	Both	1989-90 VL94	Hydraulic Type
Rocker Components	Both	1989-90 181-1016	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 10mm Nut
		1989-90 183-1015	Smooth Ball, 10mm,Use W/ Metric Threaded Rocker Arm Stud
		1989-90 184-1025	Stud, 10mm,Adjustable
		1989-90 184-1032	Nut, 10mm,Adjustable
		1989-90 184-1033	Nut, 8mm,Non-Adjustable
Push Rod	Int Exh	1989-90 192-1481	6.043 Length
		1989-90 192-1482	6.390 Length,- 40 U/S (192-1482U40) Available

92 189 C.I., (3.1L), OHV, FLEX, FI, 12 Valve, Vin W 189W
 1993-93 V6 189 CID BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1993-93 SB1750-65	1¼ O.D.,1.468 I.D.,0.2760 Depth,Aluminum Cylinder Head
	Exh	1993-93 SB1500-73	1½ O.D.,1.230 I.D.,0.2780 Depth,Also Available In Non-Magnetic (N) Material,Aluminum Cylinder Head
Valve	Int	1993-93 02057	1.718 Head Diameter,0.020 Shorter Than OEM
	Exh	1993-93 02058	1.425 Head Diameter,0.020 Shorter Than OEM
Keeper	Both	1993-93 121-1021	1 RD Bead Type
Stem Seal	Both	1993-93 122-1069	Positive Type,Viton Material,Ring & Band Style
Guide	Both	1993-93 140-8112	0.3155 I.D.,2.085 Length,0.5530 O.D.,W/ Snap Ring,Aluminum Head, +2 O/S Available
Spring	Both	1993-93 160-1076	2.110 Length
Lifter	Both	1993-93 VL94	Hydraulic Type
Rocker Components	Both	1993-93 181-1016	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 10mm Nut
		1993-93 183-1015	Smooth Ball, 10mm,Use W/ Metric Threaded Rocker Arm Stud
		1993-93 184-1025	Stud, 10mm,Adjustable
		1993-93 184-1032	Nut, 10mm,Adjustable
		1993-93 184-1033	Nut, 8mm,Non-Adjustable
Push Rod	Int Exh	1993-93 192-1481	6.043 Length,Alum. Cyl. Head & MFI
		1993-93 192-1482	6.390 Length,- 40 U/S (192-1482U40) Available,Alum. Cyl. Head & MFI
Head Saver Shim		1993-93 230-2025	New Hgt.- 3.5850 - 3.5950; Min. Hgt.- 3.5750, 2 Required

93 189 C.I., (3.1L), OHV, GAS, FI, 12 Valve, Vin M, ""Aluminum Casting"" 189M
 1993-99 V6 189 CID BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1993-99 SB1750-65	1¼ O.D.,1.468 I.D.,0.2760 Depth
	Exh	1993-99 SB1500-73	1½ O.D.,1.230 I.D.,0.2780 Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	1993-99 01810	1.718 Head Diameter
	Exh	1993-99 01811	1.425 Head Diameter,W/ .3132 Stem Dia.
Keeper	Both	1993-99 121-1085	1 RD Bead Type
Stem Seal	Both	1993-99 122-1314	Positive Type,Viton Material,Top Hat Style
Guide	Both	1993-99 140-8112	0.3155 I.D.,2.085 Length,0.5530 O.D.,W/ Snap Ring,+2 O/S Available

(Cont'd) **GM / PASSENGER CAR**

189 C.I., (3.1L), OHV, GAS, FI, 12 Valve, Vin M, "" Aluminum Casting"" **189M 93**
1993-99 V6 189 CID BORE - 89mm/3.50"" (cont.)

PART	YEARS	PART NO.	NOTES
Spring	Both 1993-99	160-1363	1.940 Length,Conical
Lifter	Both 1993-99	VL138	Hydraulic Roller Type
Rocker Components	Both 1993-99 1993-99	183-1015 184-1033	Smooth Ball, 10mm,Use W/ Metric Threaded Rocker Arm Stud Nut, 8mm,Non-Adjustable
Push Rod	Int 1993-99 Exh 1993-99	190-1534 190-1535	5.750 Length,Hardened 6.074 Length,Hardened
Head Bolt Set	1993-95 1993-99	220-1031 220-1085	Torque To Yield,W/ Tapped Bolt, Services Engine Torque To Yield,Services Engine
Head Saver Shim	1993-99	230-2025	New Hgt. - 3.5850 - 3.5950; Min Hgt. - 3.575, 2 Required

189 C.I., (3.1L), OHV, GAS, FI, 12 Valve, Vin J **189J 94**
2000-05 V6 189 CID BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 2000-05 Exh 2000-05	SB1812-55 SB1500-73	1 ³ / ₁₆ O.D.,1 ¹ / ₂ T I.D.,0.2780 Depth,Aluminum Head 1 ¹ / ₂ O.D.,1.230 I.D.,0.2780 Depth,Also Available In Non-Magnetic (N) Material,Aluminum Head
Valve	Int 2000-05 Exh 2000-05	01929 01811	1.760 Head Diameter 1.425 Head Diameter
Keeper	Both 2000-05	121-1085	1 RD Bead Type
Stem Seal	Both 2000-05	122-1336	Positive Type,Viton Material,Top Hat Style
Guide	Both 2000-05	140-3067	0.3155 I.D.,2.085 Length,0.5525 O.D.,+2 O/S Also Available
Spring	Both 2000-05	160-1363	1.940 Length,Conical
Lifter	Both 2000-05	VL138	Hydraulic Roller Type
Rocker Components	Both 2003-05	180-1329	Rocker Arm, Roller Pivot Assy., W/8mm Bolt
Push Rod	Int 2000-05 Exh 2000-05	190-1534 190-1535	5.750 Length,Hardened 6.074 Length,Hardened
Head Bolt Set	2000-05	220-1085	Torque To Yield,Services Engine
Head Saver Shim	2000-05	230-2025	New Hgt. - 3.5850 - 3.5950; Min. Hgt. - 3.5750, 2 Required

194 C.I., (3.2L), OHV, GAS, CARB, 12 Valve **GMC194 95**
1962-67 L6 194 CID BORE - 90.5mm/3.56""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1962-67 Exh 1962-67	SB1812-3 SB1562-2	1 ¹ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth 1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ T I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int 1962-67 1962-67 Exh 1962-67 1962-67 1962-67	00399 01193 00400 01192 01206S	1.720 Head Diameter,+15 O/S Stem Available 1.720 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available 1.500 Head Diameter,+3 & +15 O/S Stem Available 1.500 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available 1.500 Head Diameter,Stellite Face,Optional Material & Chrome Plated, +15 O/S Stem Available
Keeper	Both 1962-67	121-1003	1 SQ Bead Type
Stem Seal	Both 1962-67 1962-67 1962-67 1962-67	122-1037 122-1043 122-1048 122-1238	Umbrella Type,Poly Material,Umbrella Style O-Ring Type,Nitrile Material,O-Ring Style Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems

GM / PASSENGER CAR (Cont'd)

95 194 C.I., (3.2L), OHV, GAS, CARB, 12 Valve
(cont.) 1962-67 L6 194 CID

GMC194
BORE - 90.5mm/3.56"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1962-67	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Int	1962-67	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1962-67	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1962-67	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1962-67	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1962-64	160-1125	2.050 Length,W/ Damper
		1965-67	160-1148	1.900 Length
Lifter	Both	1962-67	VL37	Hydraulic Type
Rocker Components	Both	1962-67	181-1012	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1962-67	183-1024	Smooth Ball, 3/8
		1962-67	184-1038	Nut, 3/8
Push Rod	Both	1962-67	192-1330	9.682 Length

96 196 C.I., (3.2L), OHV, GAS, CARB, 12 Valve, Vin C, ""Buick""
1978-79 V6 196 CID

196C
BORE - 90mm/3.54"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1978-78	SB1750-1	1 3/4 O.D.,1 1/2 I.D.,1/4 Depth,+10 O/S Available, Also Available In Non Magnetic (N) Material,W/ 1.625 Valve Head Dia.
		1979-79	SB1812-3	1 13/16 O.D.,1 1/2 I.D.,7/32 Depth,W/ 1.710 Valve Head Dia.
	Exh	1978-78	SB1500-1	1 1/2 O.D.,1 1/4 I.D.,7/32 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.425 Valve Head Dia.
		1979-79	SB1562-2	1 9/16 O.D.,1 5/16 I.D.,1/4 Depth,Also Available In Non-Magnetic (N) Material,W/ 1.500 Valve Head Dia.
Valve	Int	1979-79	01388	1.710 Head Diameter,Square Groove
	Exh	1979-79	01387	1.500 Head Diameter,W/ Seal Groove
		1979-79	01389	1.500 Head Diameter,Square Groove,W/O Seal Groove
Keeper	Both	1978-79	121-1003	1 SQ Bead Type
Stem Seal	Both	1978-79	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1978-79	122-1040	Positive Type,Poly Material,2-Ring Style
		1978-79	122-1048	Positive Type,Poly Material,2-Ring Style
		1978-79	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Int	1978-79	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1978-79	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1978-79	140-6105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1978-79	140-9105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9105U)
Lifter	Both	1978-79	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1978-79	VL73	Hydraulic Type
Rocker Components	Both	1978-79	180-1040	Rocker Arm, Stamped Steel,R.H.
		1978-79	180-1041	Rocker Arm, Stamped Steel,L.H.
		1978-79	187-1014	Retainer

(Cont'd) GM / PASSENGER CAR**196 C.I., (3.2L), OHV, GAS, CARB, 12 Valve, Vin C, ""Buick""**
1978-79 V6 196 CID**196C 96**
BORE - 90mm/3.54"" (cont.)

PART	YEARS	PART NO.	NOTES
Push Rod	Both	1978-79 190-1433	8.686 Length,Note: (Hardened); +60 O/S (190-1433+60) Available

197 C.I., (3.2L), DOHC, GAS, FI, 24 Valve, Vin N, LA3
2003-04 V6 197 CID**GMC3.2-LA3 97**
BORE - 87.4mm/3.44""

PART	YEARS	PART NO.	NOTES	
Valve	Int Exh	2003-04 2003-04 2003-04	10784 02040S 22040S	1.260 Head Diameter 1.142 Head Diameter,Recommended OEM Nickel Base Inconel Material, Stellite Face 1.142 Head Diameter,Alternative Austenitic Material, Stellite Face
Keeper	Both	2003-04	121-1098	3 RD Bead Type
Stem Seal	Both	2003-04	122-1329	Positive Type,Viton Material,Metal Clad Style
Guide	Int Exh	2003-04 2003-04	140-3010 140-3011	0.2362 I.D.,1.773 Length,0.3950 O.D. 0.2362 I.D.,1.378 Length,0.3950 O.D.
Lifter	Both	2003-04	VL571	Hydraulic Bucket Type

200 C.I., (3.3L), OHV, GAS, CARB, 12 Valve, Vin M
1978-79 V6 200 CID**200M 98**
BORE - 88.9mm/3.50""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1978-79 1978-79	SB1687-2 SB1437-2	1 ¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1 ⁷ / ₁₆ O.D.,1 ⁷ / ₃₂ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Keeper	Both	1978-79	121-1003	1 SQ Bead Type
Stem Seal	Both	1978-79 1978-79 1978-79 1978-79	122-1037 122-1043 122-1048 122-1270	Umbrella Type,Poly Material,Umbrella Style O-Ring Type,Nitrile Material,O-Ring Style Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss Umbrella Type,Viton Material,Umbrella Style
Guide	Int Exh	1978-79 1978-79 1978-79	140-5607 140-9607 140-9867	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2) 0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U) 0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
Spring	Both	1978-79 1978-79 1978-79	160-1144 160-1144HP 160-1407	2.048 Length,W/ Damper 2.023 Length,W/ Damper,Hi-Perf. 2.140 Length,W/ Damper,Optional Hi-Perf.
Rotator	Exh	1978-79	161-1012	
Lifter	Both	1978-79	VL37	Hydraulic Type
Rocker Components	Both	1978-79 1978-79 1978-79 1978-79 1978-79	180-1283 181-1011 181-1061 183-1017 183-1032 184-1038	Rocker Arm, Rail Type,Optional Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) ³ / ₈ Nut,Optional Smooth Ball, ³ / ₈ Grooved Ball, ³ / ₈ Nut, ³ / ₈
Push Rod	Both	1978-79	192-1331	7.793 Length

GM / PASSENGER CAR (Cont'd)

99 204 C.I., (3.3L), OHV, GAS, FI, 12 Valve, Vin N
1989-93 V6 204 CID

204N
BORE - 92mm/3.70"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1989-93	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7 ¹ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.710 Valve Head Dia.
	Exh	1989-93 1989-93	SB1562-42 SB1562-9	1 ¹ / ₁₆ O.D., 1 ¹ / ₁₆ T I.D., 7 ¹ / ₃₂ Depth, Optional 1 ³ / ₁₆ x 1 ¹ / ₈ Tapered I.D. 1 ¹ / ₁₆ O.D., 1 ¹ / ₁₆ T I.D., 7 ¹ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1989-93	01711	1.710 Head Diameter, Square Groove
	Exh	1989-93	01710	1.490 Head Diameter, Square Groove
Keeper	Both	1989-93	121-1003	1 SQ Bead Type
Stem Seal	Both	1989-93	122-1075	Positive Type, Viton Material, Ring & Band Style
Guide	Both	1989-93	140-5606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U)
		1989-93	140-9606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9606U)
Spring	Both	1989-93	160-1085	1.981 Length, W/O Damper
Lifter	Both	1989-93	VL115	Hydraulic Roller Type, Always Install Oil Hole Up To Valley On "V" Style Engines.
Push Rod	Both	1989-93	190-1532	6.721 Length
Head Bolt Set		1989-93	220-1024	Torque To Yield, Services Engine

100 207 C.I., (3.4L), OHV, GAS, FI, 12 Valve, Vin S
1993-95 V6 207 CID

207S
BORE - 92mm/3.62"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1993-95	SB1812-4	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 7 ¹ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1993-95	SB1500-1	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., 7 ¹ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1993-95	01481	1.718 Head Diameter, +15 O/S Stem Available
	Exh	1993-95	01480	1.425 Head Diameter, +15 O/S Stem Available
Keeper	Both	1993-95	121-1003	1 SQ Bead Type
Stem Seal	Both	1993-95	122-1047	Positive Type, Poly Material, 2-Ring Style
Guide	Both	1993-95	140-9560	0.3440 I.D., 2.000 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Lifter	Both	1993-94	VL94	Hydraulic Type
		1995-95	VL138	Hydraulic Roller Type
Rocker Components	Both	1993-95	181-1016	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 10mm Nut
		1993-95	183-1015	Smooth Ball, 10mm, Use W/ Metric Threaded Rocker Arm Stud
		1993-95	184-1025	Stud, 10mm, Adjustable
		1993-95	184-1032	Nut, 10mm, Adjustable
Push Rod	Both	1993-95	192-1444	6.162 Length

101 207 C.I., (3.4L), DOHC, GAS, FI, 24 Valve, Vin X
1991-97 V6 207 CID

207X
BORE - 92mm/3.62"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1991-97	SB1500-73	1 ¹ / ₂ O.D., 1.230 I.D., 0.2780 Depth, Also Available In Non-Magnetic (N) Material
	Exh	1991-97	SB1375-56	1 ³ / ₈ O.D., 1.102 I.D., 0.2600 Depth
Valve	Int	1991-97	01703	1.437 Head Diameter
	Exh	1991-97	01702	1.260 Head Diameter

(Cont'd) GM / PASSENGER CAR**207 C.I., (3.4L), DOHC, GAS, FI, 24 Valve, Vin X**
1991-97 V6 207 CID**207X 101**
BORE - 92mm/3.62" (cont.)

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1991-97	122-1198	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1991-97	140-8593	0.2755 I.D.,1.640 Length,0.5118 O.D.,+2 O/S Available
Spring	Both	1991-97	160-1365	1.700 Length,Conical
Head Bolt Set		1991-97	220-1080	Torque To Yield,2 Required

207 C.I., (3.4L), OHV, GAS, FI, 12 Valve, Vin E
1999-05 V6 207 CID**GMC207E 102**
BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1999-05	SB1812-1	1 ³ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
	Exh	1999-05	SB1500-3	1 ¹ / ₂ O.D.,1 ¹ / ₄ I.D., ¹ / ₄ Depth,+3 O/S Available
Valve	Int	1999-05	01929	1.760 Head Diameter
	Exh	1999-05	01811	1.425 Head Diameter
Keeper	Both	1999-05	121-1085	1 RD Bead Type
Stem Seal	Both	1999-99	122-1314	Positive Type,Viton Material,Top Hat Style
		2000-05	122-1336	Positive Type,Viton Material,Top Hat Style
Guide	Both	1999-99	140-8112	0.3155 I.D.,2.085 Length,0.5530 O.D.,W/ Snap Ring,+2 O/S Available
		2000-05	140-3067	0.3155 I.D.,2.085 Length,0.5525 O.D.,+2 O/S Also Available
Spring	Both	1999-05	160-1363	1.940 Length,Conical
Lifter	Both	1999-05	VL138	Hydraulic Roller Type
Rocker Components	Both	2003-05	180-1329	Rocker Arm, Roller Pivot Assy., W/8mm Bolt
Push Rod	Int	1999-05	190-1534	5.750 Length,Hardened
	Exh	1999-05	190-1535	6.074 Length,Hardened
Head Bolt Set		1999-05	220-1085	Torque To Yield,Services Engine
Head Saver Shim		1999-05	230-2132	New Hgt. - 3.585 - 3.595; Min. Hgt. - 3.575,2 Required

213 C.I., (3.5L), OHV, GAS, FI, 12 Valve, Vin N, LZ4
2006-10 V6 213 CID**GMC3.5-LZ4 103**
BORE - 99mm/3.90"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2006-10	SB1937-55	1 ¹⁵ / ₁₆ O.D.,1.640T I.D.,0.2900 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2006-10	13043	1.870 Head Diameter
	Exh	2006-10	13044	1.523 Head Diameter
Keeper	Both	2006-10	121-1085	1 RD Bead Type
Stem Seal	Int	2006-10	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2006-10	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2006-10	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2006-10	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2006-10	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2006-10	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2006-10	160-1607	2.081 Length,Conical, W/ External Shroud
Lifter	Both	2006-10	VL138	Hydraulic Roller Type
Rocker Components	Both	2006-10	180-1331	Rocker Arm, Roller Pivot Assy., W/8mm Bolt
Push Rod	Int	2006-10	190-1546	5.879 Length

GM / PASSENGER CAR (Cont'd)

103 213 C.I., (3.5L), OHV, GAS, FI, 12 Valve, Vin N, LZ4
(cont.) 2006-10 V6 213 CID

GMC3.5-LZ4
BORE - 99mm/3.90"

PART	YEARS	PART NO.	NOTES
Push Rod	Exh	2006-10 190-1547	6.168 Length
Head Saver Shim		2006-10 230-2182	New Hgt. - N/A; Min. Hgt. - N/A

104 213 C.I., (3.5L), OHV, FLEX, FI, 12 Valve, Vin K, LZE
2006-11 V6 213 CID

GMC3.5-LZE
BORE - 99mm/3.90"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2006-11 SB1937-55	1 ¹⁵ / ₁₆ O.D., 1.640T I.D., 0.2900 Depth, NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2006-11 13043	1.870 Head Diameter
	Exh	2006-11 13044	1.523 Head Diameter
Keeper	Both	2006-11 121-1085	1 RD Bead Type
Stem Seal	Int	2006-11 122-1337	Positive Type, Viton Material, Top Hat Style
	Exh	2006-11 122-1338	Positive Type, Viton Material, Top Hat Style
Guide	Both	2006-11 140-3053	0.3154 I.D., 2.115 Length, 0.5000 O.D., +2 O/S Available (140-3053+2)
		2006-11 140-3053H	0.3154 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional Hardened Version
		2006-11 140-3053U	0.3054 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional - 010 Undersized I.D.
		2006-11 340-1046BR	0.3150 I.D., 2.120 Length, 0.5010 O.D., NOTE: Optional Bronze Version
Spring	Both	2006-11 160-1607	2.081 Length, Conical, W/ External Shroud
Lifter	Both	2006-11 VL138	Hydraulic Roller Type
Rocker Components	Both	2006-11 180-1331	Rocker Arm, Roller Pivot Assy., W/8mm Bolt
Push Rod	Int	2006-11 190-1546	5.879 Length
	Exh	2006-11 190-1547	6.168 Length
Head Saver Shim		2006-11 230-2182	New Hgt. - N/A; Min. Hgt. - N/A

105 213 C.I., (3.5L), OHV, GAS, FI, 12 Valve, Vin 8, LK9
2004-06 V6 213 CID

GMC3.5-LX9
BORE - 93.98mm/3.70"

PART	YEARS	PART NO.	NOTES
Valve	Int	2004-06 02172	1.760 Head Diameter
	Exh	2004-06 02173	1.425 Head Diameter
Keeper	Both	2004-06 121-1085	1 RD Bead Type
Stem Seal	Both	2004-06 122-1336	Positive Type, Viton Material, Top Hat Style
Lifter	Both	2004-06 VL138	Hydraulic Roller Type
Rocker Components	Both	2004-06 180-1329	Rocker Arm, Roller Pivot Assy., W/8mm Bolt
Push Rod	Int	2004-06 190-1534	5.750 Length, Hardened
	Exh	2004-06 190-1535	6.074 Length, Hardened
Head Bolt Set		2004-06 220-1122	Torque To Yield, Services Engine

106 214 C.I., (3.5L), DOHC, GAS, FI, 24 Valve, Vin H, LX5, ""Oldsmobile Northstar""
1999-02 V6 214 CID

GMC3.5-LX5
BORE - 89.5mm/3.52"

PART	YEARS	PART NO.	NOTES
Valve	Int	1999-02 02053	1.426 Head Diameter
	Exh	1999-02 02054	1.103 Head Diameter
Keeper	Both	1999-02 121-1081	1 RD Bead Type
Stem Seal	Both	1999-02 122-1349	Positive Type, Viton Material, Top Hat Style

(Cont'd) **GM / PASSENGER CAR**

214 C.I., (3.5L), DOHC, GAS, FI, 24 Valve, Vin H, LX5, ""Oldsmobile Northstar"" **106**
1999-02 V6 214 CID GMC3.5-LX5 (cont.)
BORE - 89.5mm/3.52""

PART	YEARS	PART NO.	NOTES
Lifter	Both 1999-02	VL175	Hydraulic Lash Adjuster Type

215 C.I., (3.5L), OHV, GAS, CARB, 16 Valve, ""Buick"" **107**
1961-63 V8 215 CID 215BUK
BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES
Guide	Both 1961-63	140-1880	0.3435 I.D.,2.610 Length,0.5960 O.D.

215 C.I., (3.5L), OHV, GAS, CARB, 12 Valve, ""Pontiac"" **108**
1964-65 L6 215 CID GMC215
BORE - 95.3mm/3.75""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1964-65	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh 1964-65	SB1562-2	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ T I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int 1964-65	00399	1.720 Head Diameter,+15 O/S Stem Available
		01193	1.720 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
	Exh 1964-65	00400	1.500 Head Diameter,+3 & +15 O/S Stem Available
		01192	1.500 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
1964-65	01206S	1.500 Head Diameter,Stellite Face,Optional Material & Chrome Plated, +15 O/S Stem Available	
Keeper	Both 1964-65	121-1003	1 SQ Bead Type
Stem Seal	Both 1964-65	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
	1964-65	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int 1964-65	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
	Exh 1964-65	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
	1964-65	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both 1964-64	160-1117	2.030 Length
Lifter	Both 1964-65	VL37	Hydraulic Type
Rocker Components	Both 1964-65	181-1012	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut
		183-1024	Smooth Ball, ³ / ₈
		184-1038	Nut, ³ / ₈
Push Rod	Both 1964-65	192-1330	9.682 Length

216 C.I., (3.5L), OHV, GAS, CARB, 12 Valve, ""Chevrolet"" **109**
1937-53 L6 217 CID GMC216
BORE - 88.9mm/3.50""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1941-53	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh 1941-53	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Exh 1950-53	00400	1.500 Head Diameter,+3 & +15 O/S Stem Available
		01192	1.500 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available

GM / PASSENGER CAR (Cont'd)

109 216 C.I., (3.5L), OHV, GAS, CARB, 12 Valve, ""Chevrolet"" GMC216
 (cont.) 1937-53 L6 217 CID BORE - 88.9mm/3.50""

PART	YEARS	PART NO.	NOTES
Valve	Exh	1950-53 01206S	1.500 Head Diameter,Stellite Face,Optional Material & Chrome Plated, +15 O/S Stem Available
Keeper	Both	1950-53 121-1003	1 SQ Bead Type
Stem Seal	Both	1948-53 1950-53 122-1043 122-1238	O-Ring Type,Nitrile Material,O-Ring Style Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	1938-40 1941-53 140-1453 140-1732	0.3435 I.D.,3.219 Length,0.5655 O.D. 0.3435 I.D.,3.344 Length,0.5648 O.D.
		1938-40 1941-53 140-1476 140-1527	0.3432 I.D.,2.188 Length,0.5655 O.D. 0.3435 I.D.,2.438 Length,0.5650 O.D.
	Exh	1938-40 1941-53 140-1476 140-1527	0.3432 I.D.,2.188 Length,0.5655 O.D. 0.3435 I.D.,2.438 Length,0.5650 O.D.
		1937-53 160-1116	2.250 Length

110 217 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin 8, LF3, ""High Feature V6 TURBO"" GMC3.6-LF3
 2014-19 V6 217 CID BORE - 94mm/3.70""

PART	YEARS	PART NO.	NOTES
Valve	Int	2014-19 13333	1.510 Head Diameter
	Exh	2014-16 13212	1.205 Head Diameter,CTS Vsport/Vsport Premium
Keeper	Both	2014-19 121-1127	1 RD Bead Type
Stem Seal	Both	2014-19 122-1418	Positive Type,Viton Material,Top Hat Style
Guide	Both	2014-19 140-3112	0.2365 I.D.,1.655 Length,0.4358 O.D.
Spring	Both	2014-19 160-1588	1.729 Length,Conical
Lifter	Both	2014-19 VL175	Hydraulic Lash Adjuster Type,W/O Duel Feed
Rocker Components	Both	2014-19 180-1323	Cam Follower

111 217 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin Y, LF4, ""High Feature V6 TURBO"" GMC3.6-LF4
 2016-19 V6 217 CID BORE - 94mm/3.70""

PART	YEARS	PART NO.	NOTES
Valve	Int	2016-18 13467	1.551 Head Diameter
		2019-19 13333	1.510 Head Diameter
	Exh	2016-18 13468	1.240 Head Diameter
Keeper	Both	2016-18 121-1098	3 RD Bead Type
		2019-19 121-1127	1 RD Bead Type
Stem Seal	Both	2016-19 122-1509	Positive Type,Viton Material,Top Hat Style
Spring	Both	2016-18 160-1700	1.783 Length,Conical
		2019-19 160-1588	1.729 Length,Conical
Lifter	Both	2016-19 VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2016-19 180-1323	Cam Follower

112 217 C.I., (3.6L), DOHC, BI-FUEL, FI, 24 Valve, Vin N, LFR, ""High Feature V6"" GMC3.6-LFR
 2015-17 V6 217 CID BORE - 94mm/3.70""

PART	YEARS	PART NO.	NOTES
Valve	Int	2015-17 13333	1.510 Head Diameter
	Exh	2015-17 13212	1.205 Head Diameter
Keeper	Both	2015-17 121-1127	1 RD Bead Type
Stem Seal	Both	2015-17 122-1418	Positive Type,Viton Material,Top Hat Style
Guide	Both	2015-17 140-3112	0.2365 I.D.,1.655 Length,0.4358 O.D.

(Cont'd) GM / PASSENGER CAR

217 C.I., (3.6L), DOHC, BI-FUEL, FI, 24 Valve, Vin N, LFR, ""High Feature V6"" **112**
 GMC3.6-LFR (cont.)
 2015-17 V6 217 CID BORE - 94mm/3.70""

PART	YEARS	PART NO.	NOTES
Spring	Both 2015-17	160-1588	1.729 Length,Conical
Lifter	Both 2015-17	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both 2015-17	180-1323	Cam Follower

217 C.I., (3.6L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 3, LFX, ""High Feature V6"" **113**
 GMC3.6-LFX
 2012-20 V6 217 CID BORE - 94mm/3.70""

PART	YEARS	PART NO.	NOTES
Valve	Int 2012-20 Exh 2012-20	13333 13212	1.510 Head Diameter 1.205 Head Diameter
Keeper	Both 2012-20	121-1127	1 RD Bead Type
Stem Seal	Both 2012-20	122-1418	Positive Type,Viton Material,Top Hat Style
Guide	Both 2012-20	140-3112	0.2365 I.D.,1.655 Length,0.4358 O.D.
Spring	Both 2012-15 2012-20	160-1579 160-1588	1.760 Length,Conical,2012 Camaro & LaCrosse, 2012-13 Impala, 2012-15 CTS 1.729 Length,Conical
Lifter	Both 2012-20	VL175	Hydraulic Lash Adjuster Type,W/O Dual Feed
Rocker Components	Both 2012-20	180-1323	Cam Follower

217 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin D, V, LLT, ""High Feature V6"" **114**
 GMC3.6-LLT
 2008-11 V6 217 CID BORE - 94mm/3.70""

PART	YEARS	PART NO.	NOTES
Valve	Int 2008-11 Exh 2008-10 2011-11	13081 13082 13335	1.456 Head Diameter 1.205 Head Diameter 1.205 Head Diameter
Keeper	Both 2008-11	121-1127	1 RD Bead Type
Stem Seal	Both 2008-11	122-1418	Positive Type,Viton Material,Top Hat Style
Guide	Both 2008-11	140-3112	0.2365 I.D.,1.655 Length,0.4358 O.D.
Spring	Both 2008-11	160-1588	1.729 Length,Conical
Lifter	Both 2008-11	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both 2008-11	180-1323	Cam Follower

217 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin 7, LY7, ""High Feature V6"" **115**
 GMC3.6-LY7
 2004-12 V6 217 CID BORE - 94mm/3.70""

PART	YEARS	PART NO.	NOTES
Valve	Int 2004-10 2011-12 Exh 2004-10 2011-12	13081 13334 13082 13335	1.456 Head Diameter 1.457 Head Diameter 1.205 Head Diameter 1.205 Head Diameter
Keeper	Both 2004-12	121-1127	1 RD Bead Type
Stem Seal	Both 2004-12	122-1418	Positive Type,Viton Material,Top Hat Style
Guide	Both 2004-12	140-3112	0.2365 I.D.,1.655 Length,0.4358 O.D.
Spring	Both 2004-11 2012-12	160-1588 160-1579	1.729 Length,Conical 1.760 Length,Conical
Lifter	Both 2004-12	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both 2004-12	180-1323	Cam Follower

GM / PASSENGER CAR (Cont'd)

116 222 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin S, LGX, ""High Feature V6"" GMC3.6-LGX
 2016-21 V6 222 CID BORE - 95mm/3.74""

PART		YEARS	PART NO.	NOTES
Valve	Int	2016-20	13467	1.551 Head Diameter
	Exh	2016-20	13468	1.240 Head Diameter
Keeper	Both	2016-20	121-1098	3 RD Bead Type
Stem Seal	Both	2016-20	122-1509	Positive Type,Viton Material,Top Hat Style
Spring	Both	2016-20	160-1700	1.783 Length,Conical
Lifter	Both	2016-20	VL175	Hydraulic Lash Adjuster Type,W/O Dual Feed

117 225 C.I., (3.7L), OHV, GAS, CARB, 12 Valve GMC225
 1964-67 V6 225 CID BORE - 95.3mm/3.75""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1964-67	SB1750-1	1 $\frac{3}{4}$ O.D.,1 $\frac{1}{2}$ I.D., $\frac{1}{4}$ Depth,+10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh	1964-67	SB1437-3	1 $\frac{7}{16}$ O.D.,1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1965-67	00975	1.625 Head Diameter
	Exh	1965-67	00976	1.375 Head Diameter
Stem Seal	Both	1964-65	122-1048	Positive Type,Poly Material,2-Ring Style,W/ .341 Stem Dia. & Use W/ Factory Guide Boss
Guide	Int	1964-67	140-6105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
	Exh	1964-67	140-7460	0.3430 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1964-67	140-9460	0.3430 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9460H)
	Both	1964-67	140-9105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9105U)
Push Rod	Both	1964-67	190-1349	8.723 Length

118 229 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 9, K 229-9K
 1980-84 V6 229 CID BORE - 94.9mm/3.74""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1980-84	SB1937-1	1 $\frac{15}{16}$ O.D.,1 $\frac{11}{16}$ I.D., $\frac{1}{4}$ Depth
	Exh	1980-84	SB1562-1	1 $\frac{9}{16}$ O.D.,1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1980-84	01393	1.840 Head Diameter,+3 & +15 O/S Stem Available
	Exh	1980-84	01192	1.500 Head Diameter,+3 & +15 O/S Stem Available
Keeper	Both	1980-84	121-1003	1 SQ Bead Type
Stem Seal	Int	1980-84	122-1075	Positive Type,Viton Material,Ring & Band Style
	Exh	1980-84	122-1233	Umbrella Type,Nylon Material,Umbrella Style
	Both	1980-84	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1980-84	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
	1980-84	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss	
	1980-84	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ $\frac{11}{32}$ Std. Stem, Use 122-1238 +15 For Oversize Stems	
Guide	Int	1980-84	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
	Exh	1980-84	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)

(Cont'd) **GM / PASSENGER CAR**

229 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 9, K
1980-84 V6 229 CID

229-9K 118

BORE - 94.9mm/3.74" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Exh 1980-84	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both 1980-84 1980-84 1980-84	160-1144 160-1144HP 160-1407	2.048 Length,W/ Damper 2.023 Length,W/ Damper,Hi-Perf. 2.140 Length,W/ Damper,Optional Hi-Perf.
Rotator	Exh 1980-84	161-1012	
Lifter	Both 1980-84	VL37	Hydraulic Type
Rocker Components	Both 1980-84 1980-84 1980-84 1980-84 1980-84 1980-84 1980-84	180-1228 180-1283 181-1011 181-1061 183-1017 183-1032 184-1038	Rocker Arm Rocker Arm, Rail Type,Optional Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional Smooth Ball, 3/8 Grooved Ball, 3/8 Nut, 3/8
Push Rod	Both 1980-84	192-1331	7.793 Length

230 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, ""Chevrolet""
1963-70 L6 230 CID

GMC230 119

BORE - 98.4mm/3.88" (cont.)

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1963-70 Exh 1963-70	SB1812-3 SB1562-2	1 1/16 O.D.,1 1/2 T I.D.,7/32 Depth 1 9/16 O.D.,1 5/16 T I.D.,1/4 Depth,Also Available In Non-Magnetic (N) Material
Valve	Int 1963-70 1963-70 Exh 1963-70 1963-70 1963-70	00399 01193 00400 01192 01206S	1.720 Head Diameter,+15 O/S Stem Available 1.720 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available 1.500 Head Diameter,+3 & +15 O/S Stem Available 1.500 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available 1.500 Head Diameter,Stellite Face,Optional Material & Chrome Plated, +15 O/S Stem Available
Keeper	Both 1963-70	121-1003	1 SQ Bead Type
Stem Seal	Both 1963-70 1963-70	122-1043 122-1238	O-Ring Type,Nitrile Material,O-Ring Style Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 1/32 Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int 1963-70 Exh 1963-70 1963-70	140-9867 140-5607 140-9607	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U) 0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2) 0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both 1963-70 1964-64	160-1148 160-1125	1.900 Length,Exc. 1964 Chevy II 2.050 Length,W/ Damper,W/ Rotator, Chevy II
Rotator	Exh 1963-68	161-1012	
Lifter	Both 1963-70	VL37	Hydraulic Type
Rocker Components	Both 1963-70 1963-70 1963-70	181-1012 183-1024 184-1038	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut Smooth Ball, 3/8 Nut, 3/8

GM / PASSENGER CAR (Cont'd)

119 230 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, ""Chevrolet""
(cont.) 1963-70 L6 230 CID

GMC230
BORE - 98.4mm/3.88""

PART	YEARS	PART NO.	NOTES
Push Rod	Both	1963-70 192-1330	9.682 Length

120 231 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin A, C
1975-87 V6 231 CID

GMC3.8-AC
BORE - 96.5mm/3.80""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1975-78 SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.625 Valve Head Dia.
	Exh	1979-87 SB1812-3 1975-78 SB1500-1 1979-87 SB1562-9	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., 7/32 Depth, W/ 1.710 Valve Head Dia. 1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.425 Valve Head Dia. 1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ T I.D., 7/32 Depth, Also Available In Non-Magnetic (N) Material, W/ 1.500 Valve Head Dia.
Valve	Int	1979-87 01388	1.710 Head Diameter, Square Groove
	Exh	1979-87 01389	1.500 Head Diameter, Square Groove, W/O Seal Groove
Keeper	Both	1977-87 121-1003	1 SQ Bead Type
Stem Seal	Int	1975-87 122-1075 1985-87 122-1217	Positive Type, Viton Material, Ring & Band Style
	Exh	1975-87 122-1218 1975-87 122-1233	Positive Type, Viton Material, Ring & Band Style
	Both	1975-87 122-1048	Umbrella Type, Nylon Material, Umbrella Style Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss
Guide	Int	1975-87 140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2), +2 O/S & -5 U/S I.D. Available
		1975-87 140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1975-87 140-6105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1975-87 140-9105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9105U)
Spring	Both	1976-87 160-1144 1976-87 160-1144HP 1976-87 160-1407	2.048 Length, W/ Damper, Exc. 1979-80 Int. 2.023 Length, W/ Damper, Hi-Perf. 2.140 Length, W/ Damper, Optional Hi-Perf.
Lifter	Both	1975-87 VL117RH 1975-87 VL73	Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train. Hydraulic Type
Rocker Components	Both	1975-87 180-1040 1975-87 180-1041 1975-87 187-1014	Rocker Arm, Stamped Steel, R.H. Rocker Arm, Stamped Steel, L.H. Retainer
Push Rod	Both	1975-87 190-1433	8.686 Length, Note: (Hardened); +60 O/S (190-1433+60) Available

121 231 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin G, ""Buick TURBO""
1978-78 V6 231 CID

231G
BORE - 96.5mm/3.80""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1978-78 SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.625 Valve Head Dia.
	Exh	1978-78 SB1500-1	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.425 Valve Head Dia.
Keeper	Both	1978-78 121-1003	1 SQ Bead Type

(Cont'd) **GM / PASSENGER CAR**

231 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin G, ""Buick TURBO"" 231G **121**
1978-78 V6 231 CID BORE - 96.5mm/3.80"" (cont.)

PART	YEARS	PART NO.	NOTES	
Stem Seal	Int	1978-78	122-1075	Positive Type,Viton Material,Ring & Band Style
		1978-78	122-1217	Positive Type,Viton Material,Ring & Band Style
	Exh	1978-78	122-1218	Positive Type,Viton Material,Ring & Band Style
		1978-78	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
Guide	Int	1978-78	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1978-78	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1978-78	140-6105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1978-78	140-9105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9105U)
Lifter	Both	1978-78	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1978-78	VL73	Hydraulic Type
Rocker Components	Both	1978-78	180-1040	Rocker Arm, Stamped Steel,R.H.
		1978-78	180-1041	Rocker Arm, Stamped Steel,L.H.
		1978-78	187-1014	Retainer
Push Rod	Both	1978-78	190-1433	8.686 Length,Note: (Hardened); +60 O/S (190-1433+60) Available

231 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 2, ""Buick California"" 231-2 **122**
1978-79 V6 231 CID BORE - 96mm/3.78""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1978-78	SB1750-2	1¾ O.D.,1½ I.D.,7/32 Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.625 Valve Head Dia.
		1979-79	SB1812-3	1¹³/₁₆ O.D.,1½ T I.D.,7/32 Depth,W/ 1.710 Valve Head Dia.
	Exh	1978-78	SB1500-1	1½ O.D.,1¼ I.D.,7/32 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.425 Valve Head Dia.
		1979-79	SB1562-9	1⁹/₁₆ O.D.,1⁵/₁₆ T I.D.,7/32 Depth,Also Available In Non-Magnetic (N) Material,W/ 1.500 Valve Head Dia.
Valve	Int	1979-79	01388	1.710 Head Diameter,Square Groove
	Exh	1979-79	01389	1.500 Head Diameter,Square Groove,W/O Seal Groove
Keeper	Both	1978-79	121-1003	1 SQ Bead Type
Stem Seal	Int	1978-79	122-1075	Positive Type,Viton Material,Ring & Band Style
		1978-79	122-1217	Positive Type,Viton Material,Ring & Band Style
	Exh	1978-79	122-1218	Positive Type,Viton Material,Ring & Band Style
		1978-79	122-1233	Umbrella Type,Nylon Material,Umbrella Style
	Both	1978-79	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
Guide	Int	1978-79	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1978-79	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1978-79	140-6105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1978-79	140-9105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9105U)
Spring	Exh	1979-79	160-1144	2.048 Length,W/ Damper
		1979-79	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.

GM / PASSENGER CAR (Cont'd)

122 231 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 2, ""Buick California"" 231-2
 (cont.) 1978-79 V6 231 CID BORE - 96mm/3.78""

PART	YEARS	PART NO.	NOTES
Spring	Exh	1979-79 160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Lifter	Both	1978-79 VL117RH 1978-79 VL73	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train. Hydraulic Type
Rocker Components	Both	1978-79 180-1040 1978-79 180-1041 1978-79 187-1014	Rocker Arm, Stamped Steel,R.H. Rocker Arm, Stamped Steel,L.H. Retainer
Push Rod	Both	1978-79 190-1433	8.686 Length,Note: (Hardened); +60 O/S (190-1433+60) Available

123 231 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 3, 8, ""Buick TURBO"" 231-3-8
 1978-83 V6 231 CID BORE - 96.5mm/3.80""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1978-83 SB1812-3 1978-83 SB1562-9	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth 1 ⁹ / ₁₆ O.D.,1 ¹⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int Exh	1978-83 01388 1978-83 01387 1978-83 01389	1.710 Head Diameter,Square Groove 1.500 Head Diameter,W/ Seal Groove 1.500 Head Diameter,Square Groove,W/O Seal Groove
Keeper	Both	1978-83 121-1003	1 SQ Bead Type
Stem Seal	Int Exh Both	1978-83 122-1217 1978-83 122-1218 1978-83 122-1233 1978-83 122-1048	Positive Type,Viton Material,Ring & Band Style Positive Type,Viton Material,Ring & Band Style Umbrella Type,Nylon Material,Umbrella Style Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
Guide	Int Exh	1978-83 140-5607 1978-83 140-9607 1978-83 140-6105 1978-83 140-9105	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2) 0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U) 0.3440 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide 0.3440 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9105U)
Lifter	Both	1978-83 VL117RH 1978-83 VL73	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train. Hydraulic Type
Rocker Components	Both	1978-83 180-1040 1978-83 180-1041 1978-83 187-1014	Rocker Arm, Stamped Steel,R.H. Rocker Arm, Stamped Steel,L.H. Retainer
Push Rod	Both	1978-83 190-1433	8.686 Length,Note: (Hardened); +60 O/S (190-1433+60) Available

124 231 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin 7, 9, ""Buick TURBO"" GMC231-7_9
 1984-87 V6 231 CID BORE - 96.5mm/3.80""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1984-87 SB1812-3 1984-87 SB1562-9	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth 1 ⁹ / ₁₆ O.D.,1 ¹⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int Exh	1984-87 01388 1984-87 01387 1984-87 01389	1.710 Head Diameter,Square Groove 1.500 Head Diameter 1.500 Head Diameter,Square Groove,W/O Seal Groove

(Cont'd) **GM / PASSENGER CAR**

231 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin 7, 9, ""Buick TURBO"" **GMC231-7_9 124**
1984-87 V6 231 CID **BORE - 96.5mm/3.80"" (cont.)**

PART	YEARS	PART NO.	NOTES
Keeper	Both	1984-87 121-1003	1 SQ Bead Type
Stem Seal	Int	1984-87 122-1075	Positive Type,Viton Material,Ring & Band Style
		1984-87 122-1217	Positive Type,Viton Material,Ring & Band Style
	Exh	1984-87 122-1218	Positive Type,Viton Material,Ring & Band Style
		1984-87 122-1233	Umbrella Type,Nylon Material,Umbrella Style
Guide	Int	1984-87 140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1984-87 140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1984-87 140-6105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1984-87 140-9105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9105U)
Lifter	Both	1984-87 VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1984-87 VL73	Hydraulic Type
Rocker Components	Both	1984-87 180-1040	Rocker Arm, Stamped Steel,R.H.
		1984-87 180-1041	Rocker Arm, Stamped Steel,L.H.
		1984-87 187-1014	Retainer
Push Rod	Both	1984-87 190-1478	8.470 Length

231 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin 2, 3, B, C, K, L **GMC3.8-FI 125**
1986-09 V6 231 CID **BORE - 96.5mm/3.80""**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1986-88 SB1812-3	1 ³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth,Exc. VIN C & L
		1988-95 SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.710 Valve Head Dia.
	Exh	1996-03 SB1875-19	1 ⁷ / ₈ O.D.,1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth
		1986-09 SB1562-9	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material
1988-09 SB1562-42	1 ⁹ / ₁₆ O.D.,1 ³ / ₁₆ T I.D., ⁷ / ₃₂ Depth,Optional 1 ³ / ₁₆ x 1 ³ / ₈ Tapered I.D.		
Valve	Int	1986-88 01388	1.710 Head Diameter,Square Groove,0.3407 Stem, 4.713 Overall Length, Exc. VIN C
		1988-95 01711	1.710 Head Diameter,Square Groove,0.3407 Stem, 4.726 Overall Length
	Exh	1996-03 01858	1.800 Head Diameter,Round Groove,0.3134 Stem Dia., Vin K
		2004-09 13013	1.830 Head Diameter,0.3133 Stem Dia., Vin K, 2
		1986-88 01389	1.500 Head Diameter,Square Groove,0.3408 Stem, 4.718 Overall Length, W/O Seal Groove, VIN B & 3, Exc. 1988 VIN C
		1988-95 01710	1.490 Head Diameter,Square Groove,0.3408 Stem, 4.727 Overall Length
1996-09 01735	1.520 Head Diameter,Round Groove,0.3132 Stem Dia., VIN K, 2		
Keeper	Both	1986-95 121-1003	1 SQ Bead Type
		1996-09 121-1085	1 RD Bead Type,Vin K, 2
Stem Seal	Int	1988-95 122-1217	Positive Type,Viton Material,Ring & Band Style
		1995-99 122-1258	Positive Type,Viton Material,Metal Clad Style
		2000-09 122-1340	Positive Type,Viton Material,Ring & Band Style
	Exh	1988-91 122-1075	Positive Type,Viton Material,Ring & Band Style,W/ .552 O.D. Valve Guide, .341 Valve Stem Dia.
		1988-91 122-1233	Umbrella Type,Nylon Material,Umbrella Style

GM / PASSENGER CAR (Cont'd)

125 231 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin 2, 3, B, C, K, L
(cont.) 1986-09 V6 231 CID

GMC3.8-FI
BORE - 96.5mm/3.80"

PART		YEARS	PART NO.	NOTES
Stem Seal	Exh	1988-95	122-1218	Positive Type,Viton Material,Ring & Band Style
		1995-99	122-1259	Positive Type,Viton Material,Metal Clad Style
		2000-09	122-1341	Positive Type,Viton Material,Ring & Band Style
Guide	Int	1986-88	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1986-88	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1986-88	140-6105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1986-88	140-9105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9105U)
	Both	1988-95	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
		1988-95	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
		1996-09	140-9690	0.3150 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Vin K, 2
Spring	Both	1989-91	160-1085	1.981 Length,VIN L, C Exc. 90 Riviera, Reatta
		1996-09	160-1267	1.960 Length,Conical
Lifter	Both	1986-87	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1986-87	VL73	Hydraulic Type
		1988-09	VL115	Hydraulic Roller Type,Always Install Oil Hole Up To Valley On "V" Style Engines. ,Non-Active Fuel Management
Rocker Components	Both	1986-86	183-1014	Fulcrum, Short
		1986-88	187-1014	Retainer
Push Rod	Both	1986-87	190-1478	8.470 Length,W/ Hyd. Lifter; FWD Eng., Vin "B"
		1988-95	192-1491	7.963 Length,Series I, W/ Roller Lifters, Vin 3, C, L, OEM # 25532501
		1995-09	190-1533	7.029 Length,Series II & III 3800, Vin K, 2; OEM # 24504406
Head Bolt Set		1988-95	220-1024	Torque To Yield,Vin L, C; Services Engine
		1996-07	220-1093	Torque To Yield,Vin K, 2; Services Engine

126 231 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin 1, 4, "Supercharged"
1991-07 V6 231 CID

GMC3.8-SC
BORE - 96.5mm/3.80"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1991-95	SB1750-2	1 ³ / ₄ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		1996-03	SB1875-19	1 ⁷ / ₈ O.D.,1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth
	Exh	1991-07	SB1562-42	1 ⁹ / ₁₆ O.D.,1 ³ / ₁₆ T I.D., ⁷ / ₃₂ Depth,Optional 1 ³ / ₁₆ x 1 ³ / ₁₆ Tapered I.D.
		1991-07	SB1562-9	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	1991-95	01711	1.710 Head Diameter,Square Groove,0.3407 Stem, 4.726 Overall Length
		1996-03	01858	1.800 Head Diameter,Round Groove,W/ .3134 Stem Dia.
		2004-07	13013	1.830 Head Diameter
	Exh	1991-95	01710	1.490 Head Diameter,Square Groove,0.3408 Stem, 4.727 Overall Length
		1996-07	01735	1.520 Head Diameter,Round Groove,W/ .3132 Stem Dia
Keeper	Both	1991-95	121-1003	1 SQ Bead Type
		1996-07	121-1085	1 RD Bead Type
Stem Seal	Int	1991-91	122-1075	Positive Type,Viton Material,Ring & Band Style
		1991-95	122-1217	Positive Type,Viton Material,Ring & Band Style

(Cont'd) **GM / PASSENGER CAR**

231 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin 1, 4, ""Supercharged"" **GMC3.8-SC 126**
1991-07 V6 231 CID **BORE - 96.5mm/3.80"" (cont.)**

PART	YEARS	PART NO.	NOTES	
Stem Seal	Int	1996-99	122-1258	Positive Type,Viton Material,Metal Clad Style
		2000-07	122-1340	Positive Type,Viton Material, Ring & Band Style
	Exh	1991-91	122-1218	Positive Type,Viton Material, Ring & Band Style,W/ .341 Stem Dia.
		1991-95	122-1233	Umbrella Type,Nylon Material,Umbrella Style
		1995-99	122-1259	Positive Type,Viton Material,Metal Clad Style
		2000-07	122-1341	Positive Type,Viton Material, Ring & Band Style
Guide	Both	1991-95	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
		1991-95	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
	1996-07	140-9690	0.3150 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide	
Spring	Both	1991-94	160-1085	1.981 Length
		1995-07	160-1267	1.960 Length,Conical
Lifter	Both	1991-07	VL115	Hydraulic Roller Type,Always Install Oil Hole Up To Valley On ""V"" Style Engines.
Push Rod	Both	1991-94	192-1491	7.963 Length, Series I, OEM # 25532501
		1995-07	190-1533	7.029 Length, Series II & Series III 3800, OEM # 24504406
Head Bolt Set		1996-07	220-1093	Torque To Yield, Services Engine

235 C.I., (3.8L), OHV, GAS, CARB, 12 Valve **GMC235 127**
1950-62 L6 235 CID **BORE - 90.5mm/3.56""**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1950-62	SB1937-17	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., ⁷ / ₃₂ Depth
	Exh	1950-62	SB1562-9	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1953-62	00308	1.875 Head Diameter
		1950-62	00400	1.500 Head Diameter, +3 & +15 O/S Stem Available
	Exh	1950-62	01192	1.500 Head Diameter, Opt. Chrome Plated, +3 & +15 O/S Stem Available
		1950-62	01206S	1.500 Head Diameter, Stellite Face, Optional Material & Chrome Plated, +15 O/S Stem Available
Keeper	Both	1950-62	121-1003	1 SQ Bead Type
Stem Seal	Both	1950-62	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1950-62	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1950-62	122-1048	Positive Type, Poly Material, 2-Ring Style
		1950-62	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		1950-62	122-1270	Umbrella Type, Viton Material, Umbrella Style
Guide	Int	1950-62	140-1732	0.3435 I.D., 3.344 Length, 0.5648 O.D.
	Exh	1950-62	140-1527	0.3435 I.D., 2.438 Length, 0.5650 O.D.
Spring	Both	1954-58	160-1116	2.250 Length, W/ Powerglide
		1959-62	160-1126	2.160 Length

237 C.I., (3.9L), OHV, FLEX, FI, 12 Valve, Vin M, LGD **GMC3.9-LGD 128**
2009-11 V6 237 CID **BORE - 99mm/3.90""**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2009-11	SB1937-55	1 ¹⁵ / ₁₆ O.D., 1.640T I.D., 0.2900 Depth, NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2009-11	13043	1.870 Head Diameter
	Exh	2009-11	13044	1.523 Head Diameter

GM / PASSENGER CAR (Cont'd)

128 237 C.I., (3.9L), OHV, FLEX, FI, 12 Valve, Vin M, LGD
(cont.) 2009-11 V6 237 CID

GMC3.9-LGD
BORE - 99mm/3.90"

PART		YEARS	PART NO.	NOTES
Keeper	Both	2009-11	121-1085	1 RD Bead Type
Stem Seal	Int	2009-11	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2009-11	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2009-11	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2009-11	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2009-11	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2009-11	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2009-11	160-1607	2.081 Length,Conical, W/ External Shroud
Lifter	Both	2009-11	VL138	Hydraulic Roller Type
Rocker Components	Both	2009-11	180-1331	Rocker Arm, Roller Pivot Assy., W/8mm Bolt
Push Rod	Int	2009-11	190-1546	5.879 Length
	Exh	2009-11	190-1547	6.168 Length
Head Saver Shim		2009-11	230-2182	New Hgt. - N/A; Min. Hgt. - N/A

129 237 C.I., (3.9L), OHV, GAS, FI, 12 Valve, Vin R, LZ8, ""AFM""
2007-07 V6 237 CID

GMC3.9-LZ8
BORE - 99mm/3.90"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2007-07	SB1937-55	1 ¹⁵ / ₁₆ O.D.,1.640T I.D.,0.2900 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2007-07	13043	1.870 Head Diameter
	Exh	2007-07	13044	1.523 Head Diameter
Keeper	Both	2007-07	121-1085	1 RD Bead Type
Stem Seal	Int	2007-07	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2007-07	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2007-07	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2007-07	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2007-07	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2007-07	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2007-07	160-1607	2.081 Length,Conical, W/ External Shroud
Lifter	Both	2007-07	VL138	Hydraulic Roller Type,Non-Active Fuel Management; NOTE: These Lifters Used To Service The Active Fuel Man. Lifter. Refer To Tech Bulletin #13-06-01-002. AFM Lifter No Longer Available.
Rocker Components	Both	2007-07	180-1331	Rocker Arm, Roller Pivot Assy., W/8mm Bolt
Push Rod	Int	2007-07	190-1546	5.879 Length
	Exh	2007-07	190-1547	6.168 Length

130 237 C.I., (3.9L), OHV, GAS, FI, 12 Valve, Vin 1, LZ9
2006-10 V6 237 CID

GMC3.9-LZ9
BORE - 99mm/3.90"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2006-10	SB1937-55	1 ¹⁵ / ₁₆ O.D.,1.640T I.D.,0.2900 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2006-10	13043	1.870 Head Diameter

(Cont'd) **GM / PASSENGER CAR**

237 C.I., (3.9L), OHV, GAS, FI, 12 Valve, Vin 1, LZ9
2006-10 V6 237 CID

GMC3.9-LZ9 130
BORE - 99mm/3.90"" (cont.)

PART	YEARS	PART NO.	NOTES
Valve	Exh	2006-10 13044	1.523 Head Diameter
Keeper	Both	2006-10 121-1085	1 RD Bead Type
Stem Seal	Int	2006-10 122-1337	Positive Type, Viton Material, Top Hat Style
	Exh	2006-10 122-1338	Positive Type, Viton Material, Top Hat Style
Guide	Both	2006-10 140-3053	0.3154 I.D., 2.115 Length, 0.5000 O.D., +2 O/S Available (140-3053+2)
		2006-10 140-3053H	0.3154 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional Hardened Version
		2006-10 140-3053U	0.3054 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional - 010 Undersized I.D.
		2006-10 340-1046BR	0.3150 I.D., 2.120 Length, 0.5010 O.D., NOTE: Optional Bronze Version
Spring	Both	2006-10 160-1607	2.081 Length, Conical, W/ External Shroud
Lifter	Both	2006-10 VL138	Hydraulic Roller Type
Rocker Components	Both	2006-10 180-1331	Rocker Arm, Roller Pivot Assy., W/8mm Bolt
Push Rod	Int	2006-10 190-1546	5.879 Length
	Exh	2006-10 190-1547	6.168 Length
Head Saver Shim		2006-10 230-2182	New Hgt. - N/A; Min. Hgt. - N/A

237 C.I., (3.9L), OHV, FLEX, FI, 12 Valve, Vin 3, LZG, ""AFM""
2008-08 V6 237 CID

GMC3.9-LZG 131
BORE - 99mm/3.90""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2008-08 SB1937-55	1 ¹⁵ / ₁₆ O.D., 1.640T I.D., 0.2900 Depth, NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2008-08 13043	1.870 Head Diameter
	Exh	2008-08 13044	1.523 Head Diameter
Keeper	Both	2008-08 121-1085	1 RD Bead Type
Stem Seal	Int	2008-08 122-1337	Positive Type, Viton Material, Top Hat Style
	Exh	2008-08 122-1338	Positive Type, Viton Material, Top Hat Style
Guide	Both	2008-08 140-3053	0.3154 I.D., 2.115 Length, 0.5000 O.D., +2 O/S Available (140-3053+2)
		2008-08 140-3053H	0.3154 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional Hardened Version
		2008-08 140-3053U	0.3054 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional - 010 Undersized I.D.
		2008-08 340-1046BR	0.3150 I.D., 2.120 Length, 0.5010 O.D., NOTE: Optional Bronze Version
Spring	Both	2008-08 160-1607	2.081 Length, Conical, W/ External Shroud
Lifter	Both	2008-08 VL138	Hydraulic Roller Type, Non-Active Fuel Management; NOTE: These Lifters Used To Service The Active Fuel Man. Lifter. Refer To Tech Bulletin #13-06-01-002. AFM Lifter No Longer Available.
Rocker Components	Both	2008-08 180-1331	Rocker Arm, Roller Pivot Assy., W/8mm Bolt
Push Rod	Int	2008-08 190-1546	5.879 Length
	Exh	2008-08 190-1547	6.168 Length

244 C.I., (4.0L), DOHC, GAS, FI, 32 Valve, Vin C, L47, ""Oldsmobile Northstar ""
1995-03 V8 244 CID

GMC4.0-L47 132
BORE - 87mm/3.43""

PART	YEARS	PART NO.	NOTES
Valve	Int	1995-00 01739	1.229 Head Diameter

GM / PASSENGER CAR (Cont'd)

132 244 C.I., (4.0L), DOHC, GAS, FI, 32 Valve, Vin C, L47, ""Oldsmobile

(cont.) Northstar ""

1995-03

V8 244 CID

GMC4.0-L47

BORE - 87mm/3.43""

PART		YEARS	PART NO.	NOTES
Valve	Exh	1995-00	01706	1.142 Head Diameter
		2001-02	02054	1.103 Head Diameter
		2003-03	13243	1.142 Head Diameter, Inconel
Keeper	Both	1995-03	121-1081	1 RD Bead Type
Stem Seal	Both	1995-00	122-1288	Positive Type, Viton Material, Top Hat Style
		2001-03	122-1349	Positive Type, Viton Material, Top Hat Style
Guide	Int	1995-00	140-8666	0.2355 I.D., 1.700 Length, 0.4333 O.D., W/ Snap Ring
	Exh	1995-00	140-8668	0.2365 I.D., 1.500 Length, 0.4333 O.D., W/ Snap Ring
Spring	Both	1995-00	160-1366	1.557 Length
Lifter	Both	2001-03	VL175	Hydraulic Lash Adjuster Type

133 250 C.I., (4.1L), OHV, GAS, CARB, 12 Valve, Vin D

1966-79

L6 250 CID

250D

BORE - 93.5mm/3.68""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1966-79	SB1812-3	1 ¹⁹ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	1966-79	SB1562-9	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1966-79	00399	1.720 Head Diameter, +15 O/S Stem Available
		1966-79	01193	1.720 Head Diameter, Opt. Chrome Plated, +3 & +15 O/S Stem Available
	Exh	1966-79	00400	1.500 Head Diameter, +3 & +15 O/S Stem Available
		1966-79	01192	1.500 Head Diameter, Opt. Chrome Plated, +3 & +15 O/S Stem Available
		1966-79	01206S	1.500 Head Diameter, Stellite Face, Optional Material & Chrome Plated, +15 O/S Stem Available
Keeper	Both	1966-79	121-1003	1 SQ Bead Type
Stem Seal	Both	1966-79	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1966-79	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1966-79	122-1047	Positive Type, Poly Material, 2-Ring Style
		1966-79	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		1966-79	122-1270	Umbrella Type, Viton Material, Umbrella Style
Guide	Int	1966-79	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
	Exh	1966-79	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1966-79	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1966-74	160-1148	1.900 Length
		1975-79	160-1125	2.050 Length, W/ Damper
Rotator	Exh	1971-74	161-1012	
Lifter	Both	1966-79	VL117RH	Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train.
		1966-79	VL73	Hydraulic Type
Rocker Components	Both	1966-79	181-1012	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut
		1966-79	183-1024	Smooth Ball, ³ / ₈
		1966-79	184-1038	Nut, ³ / ₈
Push Rod	Both	1966-79	192-1330	9.682 Length

(Cont'd) **GM / PASSENGER CAR**

250 C.I., (4.1L), OHV, GAS, FI, 16 Valve, Vin 7, 8, ""Cadillac""
1982-88 V8 250 CID

250CAD 134

BORE - 88mm/3.46""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1982-88	1 $\frac{1}{8}$ O.D., 1 $\frac{1}{32}$ I.D., $\frac{7}{32}$ Depth, +6 O/S Available 1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material	
	Exh	1982-88		
Keeper	Both	1982-86	121-1003	1 SQ Bead Type
Stem Seal	Both	1982-88	122-1203	Positive Type, Viton Material, Metal Clad Style, Exc. Allante
Guide	Both	1982-87	140-9606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9606U) 0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U)
		1988-88	140-5606	
Spring	Both	1988-88	160-1103	1.950 Length
Lifter	Both	1982-87	VL117RH	Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train. Hydraulic Type, VIN 8 Hydraulic Roller Type, Always Install Oil Hole Up To Valley On ""V"" Style Engines. , VIN 7
		1982-87	VL73	
		1987-88	VL115	
Push Rod	Both	1988-88	190-1427	7.635 Length

252 C.I., (4.1L), OHV, GAS, CARB, 12 Valve, Vin 4, ""Buick""
1980-84 V6 252 CID

252-4 135

BORE - 100.7mm/3.97""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1980-84	1 $\frac{3}{16}$ O.D., 1 $\frac{1}{2}$ T I.D., $\frac{7}{32}$ Depth 1 $\frac{9}{16}$ O.D., 1 $\frac{5}{16}$ T I.D., $\frac{7}{32}$ Depth, Also Available In Non-Magnetic (N) Material	
	Exh	1980-84		
Valve	Int Exh	1980-84	01388	1.710 Head Diameter, Square Groove
		1980-84	01387	1.500 Head Diameter, W/ Seal Groove
		1980-84	01389	1.500 Head Diameter, Square Groove, W/O Seal Groove
Keeper	Both	1980-84	121-1003	1 SQ Bead Type
Stem Seal	Both	1980-84	122-1037	Umbrella Type, Poly Material, Umbrella Style Positive Type, Poly Material, 2-Ring Style, W/ .605 O.D. Valve Guide Positive Type, Poly Material, 2-Ring Style Umbrella Type, Viton Material, Umbrella Style
		1980-84	122-1040	
		1980-84	122-1048	
		1980-84	122-1270	
Guide	Both	1980-84	140-7259	0.3430 I.D., 3.063 Length, 0.5020 O.D., Plain I.D. Conversion Guide 0.3430 I.D., 3.063 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
		1980-84	140-9259	
Lifter	Both	1980-84	VL117RH	Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train. Hydraulic Type
		1980-84	VL73	
Rocker Components	Both	1980-84	180-1040	Rocker Arm, Stamped Steel, R.H.
		1980-84	180-1041	Rocker Arm, Stamped Steel, L.H.
		1980-84	187-1014	Retainer
Push Rod	Both	1980-84	190-1433	8.686 Length, Note: (Hardened); +60 O/S (190-1433+60) Available

255 C.I., (4.2L), DOHC, GAS, FI, 32 Valve, Vin J, LTA, ""Blackwing Twin TURBO""

136

2019-20 V8 255 CID

GMC4.2-LTA

BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2019-20	121-1098	3 RD Bead Type
Stem Seal	Both	2019-20	122-1509	Positive Type, Viton Material, Top Hat Style

GM / PASSENGER CAR (Cont'd)

136 255 C.I., (4.2L), DOHC, GAS, FI, 32 Valve, Vin J, LTA, ""Blackwing Twin
(cont.) TURBO""

GMC4.2-LTA

2019-20

V8 255 CID

BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	2019-20	180-1323	Cam Follower,W/O Switching

137 260 C.I., (4.3L), OHV, GAS, CARB, 16 Valve, Vin 8, F
1975-82

260-8F

V8 260 CID

BORE - 88.9mm/3.50""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1975-82	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ¹⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1975-82	SB1437-4	1 ¹⁷ / ₁₆ O.D.,1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int	1975-82	01323	1.522 Head Diameter
	Exh	1975-82	01322	1.300 Head Diameter
Keeper	Both	1975-82	121-1003	1 SQ Bead Type
Stem Seal	Both	1975-82	122-1074	Positive Type,Viton Material, Ring & Band Style
Guide	Both	1975-82	140-6873	0.3450 I.D.,2.125 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1975-82	140-9873	0.3450 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1975-82	160-1006	1.960 Length
Lifter	Both	1975-82	VL49	Hydraulic Type,Exc.Hi-Perf.
Rocker Components	Both	1975-79	181-1057	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
		1975-82	183-1027	Fulcrum, Long
		1975-82	183-1028	Bridge,When Replacing, Fulcrum # 183-1027 Must Also Be Used
		1980-82	181-1059	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
Push Rod	Both	1975-79	190-1411	8.234 Length
		1980-82	190-1438	8.245 Length

138 260 C.I., (4.3L), OHV, DIESEL, FI, 12 Valve, Vin T, V, ""Oldsmobile""
1982-85

260TV

V6 260 CID

BORE - 103mm/4.06""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1982-85	SB1937-17	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Exc. Aluminum Cylinder Head
	Exh	1982-85	SB1750-3	1 ³ / ₄ O.D.,1 ¹⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material,Exc. Aluminum Cylinder Head
		1982-85	SB1750-65	1 ³ / ₄ O.D.,1.468 I.D.,0.2760 Depth,Aluminum Cylinder Head
Keeper	Both	1982-85	121-1003	1 SQ Bead Type
Stem Seal	Both	1982-85	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1982-85	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1982-85	122-1047	Positive Type,Poly Material,2-Ring Style
Spring	Both	1982-85	160-1049	2.010 Length,W/ Damper
Lifter	Both	1982-85	VL114	Hydraulic Roller Type
Rocker Components	Both	1982-85	181-1059	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
		1982-85	183-1027	Fulcrum, Long
		1982-85	183-1028	Bridge,When Replacing, Fulcrum # 183-1027 Must Also Be Used
Push Rod	Both	1982-85	190-1489	7.702 Length

(Cont'd) **GM / PASSENGER CAR**

262 C.I., (4.3L), OHV, GAS, CARB, 16 Valve, Vin G
1975-76 V8 262 CID

262G 139
BORE - 93.2mm/3.67"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1975-76	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	1975-76	SB1562-2	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ T I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1975-76	00399	1.720 Head Diameter, +15 O/S Stem Available
		1975-76	01193	1.720 Head Diameter, Opt. Chrome Plated, +3 & +15 O/S Stem Available
	Exh	1975-76	00400	1.500 Head Diameter, +3 & +15 O/S Stem Available
		1975-76	01192	1.500 Head Diameter, Opt. Chrome Plated, +3 & +15 O/S Stem Available
		1975-76	01206S	1.500 Head Diameter, Stellite Face, Optional Material & Chrome Plated, +15 O/S Stem Available
Keeper	Both	1975-76	121-1003	1 SQ Bead Type
Stem Seal	Both	1975-76	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1975-76	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1975-76	122-1048	Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss
		1975-76	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		1975-76	122-1270	Umbrella Type, Viton Material, Umbrella Style
Guide	Both	1975-76	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
Spring	Int	1975-76	160-1144	2.048 Length, W/ Damper
		1976-76	160-1144HP	2.023 Length, W/ Damper, Hi-Perf.
		1976-76	160-1407	2.140 Length, W/ Damper, Optional Hi-Perf.
	Exh	1975-76	160-1009	1.910 Length, W/ Damper
Rotator	Exh	1975-76	161-1012	
Lifter	Both	1975-76	VL37	Hydraulic Type
Rocker Components	Both	1975-76	180-1228	Rocker Arm
		1975-76	180-1239	Rocker Arm, Stamped, Long Slot
		1975-76	180-1283	Rocker Arm, Rail Type, Optional
		1975-76	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut
		1975-76	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) ³ / ₈ Nut, High Perf., W/ 1.5:1 Ratio
		1975-76	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) ³ / ₈ Nut, Optional
		1975-76	183-1017	Smooth Ball, ³ / ₈
		1975-76	183-1032	Grooved Ball, ³ / ₈
1975-76	184-1038	Nut, ³ / ₈		
Push Rod	Both	1975-76	192-1331	7.793 Length
Head Bolt Set		1975-76	220-1018	This bolt is NOT Torque to Yield, 2 Required

262 C.I., (4.3L), OHV, GAS, FI, 12 Valve, Vin Z
1985-93 V6 262 CID

GMC262Z 140
BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1985-93	SB2000-36	2.000 O.D., 1 ³ / ₄ I.D., ³ / ₁₆ Depth
	Exh	1985-93	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1985-93	01195	1.940 Head Diameter, +3 & +15 O/S Stem Available
	Exh	1985-93	01192	1.500 Head Diameter, +3 & +15 O/S Stem Available
Keeper	Both	1985-93	121-1003	1 SQ Bead Type

GM / PASSENGER CAR (Cont'd)

140 262 C.I., (4.3L), OHV, GAS, FI, 12 Valve, Vin Z
(cont.) 1985-93 V6 262 CID

GMC262Z
BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Stem Seal	Exh	1985-93	122-1233	Umbrella Type,Nylon Material,Umbrella Style
	Both	1985-93	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1985-93	122-1075	Positive Type,Viton Material, Ring & Band Style
		1985-93	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	1985-93	140-3015	0.3420 I.D.,2.120 Length,0.5020 O.D.,0.552 Boss O.D., Replaces guide Boss of Integrated guide.
		1985-93	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
	Exh	1985-93	140-3016	0.3420 I.D.,2.210 Length,0.5020 O.D.,0.552 Boss O.D., Replaces guide Boss of Integrated guide.
		1985-93	140-7946	0.3430 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1985-93	140-9946	0.3430 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1985-93	160-1144	2.048 Length,W/ Damper
		1985-93	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		1985-93	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Rotator	Exh	1985-93	161-1012	
Lifter	Both	1985-86	VL37	Hydraulic Type
		1987-93	VL115	Hydraulic Roller Type,Always Install Oil Hole Up To Valley On "V" Style Engines.
Rocker Components	Both	1985-93	180-1228	Rocker Arm
		1985-93	180-1239	Rocker Arm, Stamped, Long Slot
		1985-93	180-1283	Rocker Arm, Rail Type,Optional, 85-93
		1985-93	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut,Adjustable, W/ Press In Rocker Arm Studs, Standard Threads
		1985-93	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) ³ / ₈ Nut,High Perf., W/ 1.5:1 Ratio
		1985-93	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) ³ / ₈ Nut,Optional
		1985-93	183-1015	Smooth Ball, 10mm,Use W/ Metric Threaded Rocker Arm Stud
		1985-93	183-1017	Smooth Ball, ³ / ₈ ,Use W/ Press In Rocker Arm Stud
		1985-93	184-1033	Nut, 8mm,Non-Adjustable, Use W/ Metric Threaded Rocker Arm Studs
Push Rod	Both	1985-86	192-1331	7.793 Length
		1987-93	192-1485	7.195 Length,W/ Hyd. Roller Lifters
Head Bolt Set		1985-93	220-1018	This bolt is NOT Torque to Yield,2 Required
		1985-93	220-1104	Torque To Yield,Services Engine

141 265 C.I., (4.3L), OHV, GAS, CARB, 16 Valve
1955-57 V8 265 CID

GMC265
BORE - 95.3mm/3.75"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1955-57	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	1955-57	SB1562-2	1 ⁹ / ₁₆ O.D.,1 ¹⁵ / ₁₆ T I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	1955-57	00399	1.720 Head Diameter,+15 O/S Stem Available
		1955-57	01193	1.720 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
	Exh	1955-57	00400	1.500 Head Diameter,+3 & +15 O/S Stem Available

(Cont'd) **GM / PASSENGER CAR**

265 C.I., (4.3L), OHV, GAS, CARB, 16 Valve
1955-57 V8 265 CID

GMC265 141
BORE - 95.3mm/3.75" (cont.)

PART	YEARS	PART NO.	NOTES	
Valve	Exh	1955-57	01192	1.500 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
		1955-57	01206S	1.500 Head Diameter,Stellite Face,Optional Material & Chrome Plated, +15 O/S Stem Available
Keeper	Both	1955-57	121-1003	1 SQ Bead Type
Stem Seal	Both	1955-57	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1955-57	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1/2 Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	1955-57	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1955-57	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1955-57	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
		1955-57	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
Spring	Both	1955-57	160-1117	2.030 Length
Rotator	Exh	1955-57	161-1012	
Lifter	Both	1955-57	VL37	Hydraulic Type
Rocker Components	Both	1955-57	180-1228	Rocker Arm
		1955-57	180-1239	Rocker Arm, Stamped, Long Slot
		1955-57	180-1283	Rocker Arm, Rail Type,Optional
		1955-57	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1955-57	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut,High Perf., W/ 1.5:1 Ratio
		1955-57	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional
		1955-57	183-1017	Smooth Ball, 3/8
		1955-57	183-1032	Grooved Ball, 3/8
1955-57	184-1038	Nut, 3/8		
Push Rod	Both	1955-57	192-1331	7.793 Length
Head Saver Shim		1955-57	230-2028	New Hgt. - Min. Hgt. N/A

265 C.I., (4.3L), OHV, GAS, CARB, 16 Valve, Vin S, ""Pontiac""
1981-81 V8 265 CID

265S 142
BORE - 95.3mm/3.75" (cont.)

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1981-81	SB1687-2	1 1/16 O.D.,1 7/16 I.D.,7/32 Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		Exh	1981-81	SB1437-2	1 7/16 O.D.,1 7/32 I.D.,7/32 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Keeper	Both	1981-81	121-1003	1 SQ Bead Type
Stem Seal	Both	1981-81	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
Guide	Both	1981-81	140-6523	0.3440 I.D.,3.063 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1981-81	140-9523	0.3440 I.D.,3.063 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9523H)
Spring	Both	1981-81	160-1125	2.050 Length,W/ Damper
Lifter	Both	1981-81	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.

GM / PASSENGER CAR (Cont'd)

142 265 C.I., (4.3L), OHV, GAS, CARB, 16 Valve, Vin S, ""Pontiac"" 265S
 (cont.) 1981-81 V8 265 CID BORE - 95.3mm/3.75""

PART	YEARS	PART NO.	NOTES	
Lifter	Both	1981-81 VL73	Hydraulic Type	
Rocker Components	Both	1981-81	181-1020	Rocker Arm Kit, Includes (1) Rocker Arm (1) Grooved Ball, (1) 3/8 Nut
		1981-81	183-1021	Grooved Ball, 7/16
		1981-81	184-1038	Nut, 3/8
Push Rod	Both	1981-81	192-1446	8.045 Length

143 265 C.I., (4.3L), OHV, GAS, FI, 16 Valve, Vin W, ""Chevrolet Vortec HP"" 265HP
 1994-96 V8 265 CID BORE - 93.2mm/3.67""

PART	YEARS	PART NO.	NOTES	
Valve	Int Exh	1994-96	01806	1.840 Head Diameter, 1 Groove, 4.881 Overall Length
		1994-96	01807	1.500 Head Diameter, 1 Groove, 4.920 Overall Length, +15 O/S Available
		1994-96	01807S	1.500 Head Diameter, Stellite Face, 4.920 Overall Length, Optional Material, +15 O/S Stem Available
Keeper	Exh	1994-96	121-1003	1 SQ Bead Type
Stem Seal	Both	1994-96	122-1047	Positive Type, Poly Material, 2-Ring Style
		1994-96	122-1260	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1994-96	140-9946	0.3430 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1994-96	160-1266	2.040 Length
Lifter	Both	1994-96	VL115	Hydraulic Roller Type, Always Install Oil Hole Up To Valley On ""V"" Style Engines.
Rocker Components	Both	1994-96	180-1228	Rocker Arm
Push Rod	Both	1994-96	192-1485	7.195 Length, W/ Hyd. Roller Lifters

144 267 C.I., (4.4L), OHV, GAS, CARB, 16 Valve, Vin J, ""Chevrolet"" 267J
 1979-82 V8 267 CID BORE - 88.9mm/3.50""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1979-82	SB1812-3	1 13/16 O.D., 1 1/2 T I.D., 7/32 Depth
	Exh	1979-82	SB1437-2	1 7/16 O.D., 1 17/32 I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1979-82	01193	1.720 Head Diameter, +3 & +15 O/S Stem Available
Keeper	Both	1979-82	121-1003	1 SQ Bead Type
Stem Seal	Both	1979-82	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1979-82	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1979-82	122-1075	Positive Type, Viton Material, Ring & Band Style
		1979-82	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ 1 1/2 Std. Stem, Use 122-1238 +15 For Oversize Stems
		1979-82	122-1270	Umbrella Type, Viton Material, Umbrella Style
Guide	Int Exh	1979-82	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
		1979-82	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1979-82	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1981-82	160-1144	2.048 Length, W/ Damper
		1981-82	160-1144HP	2.023 Length, W/ Damper, Hi-Perf.
		1981-82	160-1407	2.140 Length, W/ Damper, Optional Hi-Perf.
Rotator	Exh	1979-82	161-1012	

(Cont'd) **GM / PASSENGER CAR**

267 C.I., (4.4L), OHV, GAS, CARB, 16 Valve, Vin J, ""Chevrolet"" **267J 144**
1979-82 V8 267 CID BORE - 88.9mm/3.50"" (cont.)

PART	YEARS	PART NO.	NOTES	
Lifter	Both	1979-82 VL37	Hydraulic Type	
Rocker Components	Both	1979-82	180-1228	Rocker Arm
		1979-82	180-1239	Rocker Arm, Stamped, Long Slot
		1979-82	180-1283	Rocker Arm, Rail Type,Optional
		1979-82	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1979-82	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut,High Perf., W/ 1.5:1 Ratio
		1979-82	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional
		1979-82	183-1017	Smooth Ball, 3/8
		1979-82	183-1032	Grooved Ball, 3/8
		1979-82	184-1038	Nut, 3/8
Push Rod	Both	1979-82	192-1331	7.793 Length
Head Bolt Set		1979-82	220-1018	This bolt is NOT Torque to Yield,2 Required

267 C.I., (4.4L), DOHC, GAS, FI, 32 Valve, Vin D, LC3, ""Cadillac Northstar Supercharged"" **145**
2006-09 V8 267 CID **GMC4.4-LC3**
BORE - 91mm/3.58""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2006-09	02053	1.426 Head Diameter
	Exh	2006-09	13243	1.142 Head Diameter,Inconel
Keeper	Both	2006-09	121-1081	1 RD Bead Type
Stem Seal	Both	2006-09	122-1349	Positive Type,Viton Material,Top Hat Style
Spring	Both	2006-09	160-1634	1.656 Length
Lifter	Both	2006-09	VL175	Hydraulic Lash Adjuster Type

273 C.I., (4.5L), OHV, GAS, FI, 16 Valve, Vin 3, 5, 8, ""Cadillac"" **273-8 146**
1988-92 V8 273 CID BORE - 92mm/3.62""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-89	SB1625-1	1 5/8 O.D., 1 3/8 I.D., 7/32 Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		1990-92	SB1812-12	1 13/16 O.D., 1 5/8 I.D., 7/32 Depth
	Exh	1988-89	SB1375-1	1 3/8 O.D., 1 1/8 I.D., 7/32 Depth,+30 O/S Available, Also Available In Non-Magnetic (N) Material
		1990-92	SB1562-1	1 9/16 O.D., 1 5/16 I.D., 7/32 Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Stem Seal	Both	1988-92	122-1203	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1988-92	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
		1988-92	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
Spring	Both	1988-92	160-1103	1.950 Length,VIN 5, 3
Lifter	Both	1988-92	VL115	Hydraulic Roller Type,Always Install Oil Hole Up To Valley On ""V"" Style Engines.
Push Rod	Both	1988-92	190-1427	7.635 Length

GM / PASSENGER CAR (Cont'd)

147 281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin 9, S, L37, ""Cadillac Northstar""

1993-11

V8 281 CID

GMC4.6-L37
BORE - 93mm/3.66""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1993-99	SB1437-74	1 ⁷ / ₁₆ O.D., 1.162 I.D., 0.2300 Depth
	Exh	1993-99	SB1312-67	1 ⁵ / ₁₆ O.D., 1.042 I.D., 0.2380 Depth
Valve	Int	1993-99	01707	1.308 Head Diameter
		2000-11	02053	1.426 Head Diameter
	Exh	1993-99	01706	1.142 Head Diameter
		2000-11	13243	1.142 Head Diameter, Inconel
Keeper	Both	1993-11	121-1081	1 RD Bead Type
Stem Seal	Both	1993-99	122-1288	Positive Type, Viton Material, Top Hat Style
		2000-11	122-1349	Positive Type, Viton Material, Top Hat Style
Guide	Int	1993-99	140-8666	0.2355 I.D., 1.700 Length, 0.4333 O.D., W/ Snap Ring
		2000-11	140-3056	0.2350 I.D., 1.700 Length, 0.4333 O.D.
	Exh	1993-99	140-8668	0.2365 I.D., 1.500 Length, 0.4333 O.D., W/ Snap Ring
		2000-11	140-3057	0.2350 I.D., 1.500 Length, 0.4333 O.D.
Spring	Both	1993-99	160-1366	1.557 Length
		2000-11	160-1634	1.656 Length
Lifter	Both	2000-11	VL175	Hydraulic Lash Adjuster Type

148 281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin 6, Y, LD8, ""Cadillac Northstar""

1993-11

V8 281 CID

GMC4.6-LD8
BORE - 93mm/3.66""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1993-99	SB1437-74	1 ⁷ / ₁₆ O.D., 1.162 I.D., 0.2300 Depth
	Exh	1993-99	SB1312-67	1 ⁵ / ₁₆ O.D., 1.042 I.D., 0.2380 Depth
Valve	Int	1993-99	01707	1.308 Head Diameter
		2000-11	02053	1.426 Head Diameter
	Exh	1993-99	01706	1.142 Head Diameter
		2000-11	13243	1.142 Head Diameter, Inconel
Keeper	Both	1993-11	121-1081	1 RD Bead Type
Stem Seal	Both	1993-99	122-1288	Positive Type, Viton Material, Top Hat Style
		2000-11	122-1349	Positive Type, Viton Material, Top Hat Style
Guide	Int	1993-99	140-8666	0.2355 I.D., 1.700 Length, 0.4333 O.D., W/ Snap Ring
		2000-11	140-3056	0.2350 I.D., 1.700 Length, 0.4333 O.D.
	Exh	1993-99	140-8668	0.2365 I.D., 1.500 Length, 0.4333 O.D., W/ Snap Ring
		2000-11	140-3057	0.2350 I.D., 1.500 Length, 0.4333 O.D.
Spring	Both	1993-99	160-1366	1.557 Length
		2000-11	160-1634	1.656 Length
Lifter	Both	2000-11	VL175	Hydraulic Lash Adjuster Type

149 281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin A, LH2, ""Cadillac Northstar""

2004-10

V8 281 CID

GMC4.6-LH2
BORE - 93mm/3.66""

PART		YEARS	PART NO.	NOTES
Valve	Int	2004-10	02053	1.426 Head Diameter
	Exh	2004-10	13243	1.142 Head Diameter, Inconel
Keeper	Both	2004-10	121-1081	1 RD Bead Type
Stem Seal	Both	2004-10	122-1349	Positive Type, Viton Material, Top Hat Style
Guide	Int	2004-10	140-3056	0.2350 I.D., 1.700 Length, 0.4333 O.D.
	Exh	2004-10	140-3057	0.2350 I.D., 1.500 Length, 0.4333 O.D.
Spring	Both	2004-10	160-1634	1.656 Length

(Cont'd) **GM / PASSENGER CAR**

281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin A, LH2, ""Cadillac Northstar""

149

2004-10

V8 281 CID

GMC4.6-LH2 (cont.)

BORE - 93mm/3.66""

PART	YEARS	PART NO.	NOTES
Lifter	Both 2004-10	VL175	Hydraulic Lash Adjuster Type

283 C.I., (4.6L), OHV, GAS, CARB, 16 Valve
1957-67 V8 283 CID

GMC283 150

BORE - 98.4mm/3.88""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1957-67 Exh 1957-67	SB1812-3 SB1562-2	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth 1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ T I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int 1957-67 1957-67 Exh 1957-67 1957-67 1957-67	00399 01193 00400 01192 01206S	1.720 Head Diameter, +15 O/S Stem Available 1.720 Head Diameter, Opt. Chrome Plated, +3 & +15 O/S Stem Available 1.500 Head Diameter, +3 & +15 O/S Stem Available 1.500 Head Diameter, Opt. Chrome Plated, +3 & +15 O/S Stem Available 1.500 Head Diameter, Stellite Face, Optional Material & Chrome Plated, +15 O/S Stem Available
Keeper	Both 1957-67	121-1003	1 SQ Bead Type
Stem Seal	Both 1957-67 1957-67 1957-67 1957-67 1957-67	122-1037 122-1043 122-1075 122-1238 122-1270	Umbrella Type, Poly Material, Umbrella Style O-Ring Type, Nitrile Material, O-Ring Style Positive Type, Viton Material, Ring & Band Style Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems Umbrella Type, Viton Material, Umbrella Style
Guide	Int 1957-67 Exh 1957-67 1957-67 1957-67 Both 1957-67	140-5607 140-5606 140-7459 140-9459 140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2) 0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U) 0.3430 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide 0.3430 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide 0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both 1957-66 1960-62 1967-67 1967-67 1967-67	160-1125 160-1117 160-1144 160-1144HP 160-1407	2.050 Length, W/ Damper, W/O Two 4 Bbl. Carbs. 2.030 Length, W/ Two 4 Bbl. Carbs. 2.048 Length, W/ Damper 2.023 Length, W/ Damper, Hi-Perf. 2.140 Length, W/ Damper, Optional Hi-Perf.
Rotator	Exh 1957-67	161-1012	
Lifter	Both 1957-67 1957-67 1957-67	VL37 VL63 VL66RH	Hydraulic Type, Exc. Hi Lift Cam Mechanical High Performance Type Hydraulic High Performance Type
Rocker Components	Both 1957-67 1957-67 1957-67 1957-67 1957-67 1957-67 1957-67	180-1228 180-1239 180-1283 181-1011 181-1049 181-1061 183-1017	Rocker Arm Rocker Arm, Stamped, Long Slot Rocker Arm, Rail Type, Optional Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) ³ / ₈ Nut, High Perf., W/ 1.5:1 Ratio Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) ³ / ₈ Nut, Optional Smooth Ball, ³ / ₈

GM / PASSENGER CAR (Cont'd)

150 283 C.I., (4.6L), OHV, GAS, CARB, 16 Valve
(cont.) 1957-67 V8 283 CID

GMC283
BORE - 98.4mm/3.88"

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	1957-67 1957-67	183-1032 184-1038	Grooved Ball, 3/8 Nut, 3/8
Push Rod	Both	1957-67	192-1331	7.793 Length
Head Bolt Set		1957-67	220-1018	This bolt is NOT Torque to Yield,2 Required
Head Saver Shim		1957-67	230-2028	New Hgt. - Min. Hgt. N/A

151 300 C.I., (4.9L), OHV, GAS, CARB, 16 Valve, ""Buick""
1964-67 V8 300 CID

GMC300
BORE - 95.3mm/3.75"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1964-67 1964-67	SB1875-6 SB1437-3	1 7/8 O.D., 1 5/8 I.D., 7/32 Depth 1 7/16 O.D., 1 3/16 I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Exh	1964-67	00976	1.375 Head Diameter
Guide	Int	1965-67 1965-67	140-5607 140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2) 0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1965-67	140-9460	0.3430 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9460H)
Push Rod	Both	1965-67	190-1349	8.723 Length

152 300 C.I., (4.9L), OHV, GAS, FI, 16 Valve, Vin B, ""Cadillac""
1991-95 V8 300 CID

300B
BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1991-95 1991-95	SB1875-6 SB1562-1	1 7/8 O.D., 1 5/8 I.D., 7/32 Depth 1 7/16 O.D., 1 5/16 I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Stem Seal	Both	1991-95	122-1203	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1991-95 1991-95	140-5606 140-9606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U) 0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9606U)
Spring	Both	1991-93	160-1103	1.950 Length
Lifter	Both	1991-95	VL115	Hydraulic Roller Type, Always Install Oil Hole Up To Valley On ""V"" Style Engines.
Push Rod	Both	1991-95	190-1427	7.635 Length

153 301 C.I., (4.9L), OHV, GAS, CARB, 16 Valve, Vin W, Y
1977-81 V8 301 CID

301WY
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1977-81 1977-81	SB1812-4 SB1625-1	1 13/16 O.D., 1 1/16 I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1 5/8 O.D., 1 1/8 I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int Exh	1977-81 1977-81	01362 01361	1.720 Head Diameter 1.500 Head Diameter
Keeper	Both	1977-81	121-1003	1 SQ Bead Type
Stem Seal	Both	1977-81 1977-81	122-1037 122-1047	Umbrella Type, Poly Material, Umbrella Style Positive Type, Poly Material, 2-Ring Style

(Cont'd) GM / PASSENGER CAR**301 C.I., (4.9L), OHV, GAS, CARB, 16 Valve, Vin W, Y**
1977-81 V8 301 CID**301WY 153**
BORE - 101.6mm/4.00" (cont.)

PART		YEARS	PART NO.	NOTES
Stem Seal	Both	1977-81	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Both	1977-81	140-6523	0.3440 I.D.,3.063 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1977-81	140-9523	0.3440 I.D.,3.063 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9523H)
Spring	Both	1977-81	160-1125	2.050 Length,W/ Damper
Lifter	Both	1977-81	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1977-81	VL73	Hydraulic Type
Rocker Components	Both	1977-81	181-1020	Rocker Arm Kit, Includes (1) Rocker Arm (1) Grooved Ball, (1) 3/8 Nut
		1977-81	184-1038	Nut, 3/8
Push Rod	Both	1977-78	192-1439	8.092 Length
		1979-81	192-1446	8.045 Length

302 C.I., (4.9L), OHV, GAS, CARB, 16 Valve, ""Chevrolet""
1967-69 V8 302 CID**GMC302 154**
BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1967-69	SB2125-34	2 1/8 O.D., 1 7/8 I.D., 7/32 Depth
	Exh	1967-69	SB1687-2	1 11/16 O.D., 1 7/16 I.D., 7/32 Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1967-69	00988	2.020 Head Diameter
	Exh	1967-69	00919	1.600 Head Diameter
Keeper	Both	1967-69	121-1003	1 SQ Bead Type
Stem Seal	Both	1967-69	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1967-69	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1967-69	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
		1967-69	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Int	1967-69	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
	Exh	1967-69	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1967-69	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1967-69	160-1144	2.048 Length,W/ Damper
		1967-69	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		1967-69	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Lifter	Both	1967-69	VL37	Hydraulic Type
		1967-69	VL63	Mechanical High Performance Type
Rocker Components	Both	1967-69	180-1228	Rocker Arm
		1967-69	180-1239	Rocker Arm, Stamped, Long Slot
		1967-69	180-1283	Rocker Arm, Rail Type,Optional
		1967-69	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1967-69	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut,High Perf., W/ 1.5:1 Ratio
		1967-69	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional
		1967-69	183-1017	Smooth Ball, 3/8
		1967-69	183-1032	Grooved Ball, 3/8

GM / PASSENGER CAR (Cont'd)

154 302 C.I., (4.9L), OHV, GAS, CARB, 16 Valve, ""Chevrolet""
(cont.) 1967-69 V8 302 CID

GMC302
BORE - 101.6mm/4.00""

PART		YEARS	PART NO.	NOTES
Rocker Components	Both	1967-69	184-1038	Nut, 3/8
Push Rod	Both	1967-69	192-1331	7.793 Length
Head Bolt Set		1967-69	220-1018	This bolt is NOT Torque to Yield,2 Required
Head Saver Shim		1967-69	230-2028	New Hgt. - Min. Hgt. N/A

155 305 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, Vin G, H, Q, U, LG3, LG4,
""Chevrolet""
1976-88 V8 305 CID

305-LG3_4
BORE - 94.9mm/3.74""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1976-88	SB1812-3	1 ¹⁹ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth,W/ 1.720 Valve Head Dia.
		1979-79	SB1937-17	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D., ⁷ / ₃₂ Depth,W/ 1.840 Valve Head Dia.
	Exh	1976-88	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1976-88	01193	1.720 Head Diameter,1976-78 All, 1979 2 Bbl. Carb., +3 & +15 O/S Stem Available
		1979-79	01393	1.840 Head Diameter,4 Bbl. Carb., +3 & +15 O/S Stem Available
	Exh	1976-80	00400	1.500 Head Diameter,+3 & +15 O/S Stem Available
		1976-80	01206S	1.500 Head Diameter,Stellite Face,Optional Material & Chrome Plated, +15 O/S Stem Available
		1981-88	01192	1.500 Head Diameter,Chrome Plated, +3 & +15 O/S Stem Available
Keeper	Both	1976-88	121-1003	1 SQ Bead Type
Stem Seal	Int	1976-88	122-1075	Positive Type,Viton Material, Ring & Band Style
		1976-88	122-1233	Umbrella Type,Nylon Material,Umbrella Style
	Both	1976-88	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1976-88	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1976-88	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
	1976-88	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems	
	1976-88	122-1270	Umbrella Type,Viton Material,Umbrella Style	
Guide	Int	1976-88	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
		1976-88	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
	Exh	1976-88	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Exh	1976-88	160-1009	1.910 Length,W/ Damper
		1976-88	160-1144	2.048 Length,W/ Damper,Exc. 1976-77 Exh
	Both	1976-88	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		1976-88	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Rotator	Exh	1976-87	161-1012	
Lifter	Both	1976-87	VL37	Hydraulic Type
		1988-88	VL115	Hydraulic Roller Type,Always Install Oil Hole Up To Valley On ""V"" Style Engines.
Rocker Components	Both	1976-88	180-1228	Rocker Arm
		1976-88	180-1239	Rocker Arm, Stamped, Long Slot
		1976-88	180-1283	Rocker Arm, Rail Type,Optional
		1976-88	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut

(Cont'd) **GM / PASSENGER CAR**

305 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, Vin G, H, Q, U, LG3, LG4,
"Chevrolet"

155

305-LG3_4 (cont.)

1976-88

V8 305 CID

BORE - 94.9mm/3.74"

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	1976-88	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut, High Perf., W/ 1.5:1 Ratio
		1976-88	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut, Optional
		1976-88	183-1017	Smooth Ball, 3/8
		1976-88	183-1032	Grooved Ball, 3/8
		1976-88	184-1038	Nut, 3/8
Push Rod	Both	1976-88	192-1331	7.793 Length
Head Bolt Set		1976-88	220-1018	This bolt is NOT Torque to Yield, 2 Required

305 C.I., (5.0L), OHV, GAS, FI, 16 Valve, Vin E, F, L03, LB9, "Chevrolet"

156

305EF

1985-93

V8 305 CID

BORE - 94.9mm/3.74"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1985-93	SB1937-17	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., 7/32 Depth
	Exh	1985-93	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1985-93	01393	1.840 Head Diameter, +3 & +15 O/S Stem Available
	Exh	1985-93	01192	1.500 Head Diameter, +3 & +15 O/S Stem Available
Keeper	Both	1985-93	121-1003	1 SQ Bead Type
Stem Seal	Int	1985-93	122-1075	Positive Type, Viton Material, Ring & Band Style
	Exh	1985-93	122-1233	Umbrella Type, Nylon Material, Umbrella Style
	Both	1985-93	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1985-93	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1985-93	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ 1 ¹ / ₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		1985-93	122-1270	Umbrella Type, Viton Material, Umbrella Style
Guide	Int	1985-93	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
	Exh	1985-93	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1985-93	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1985-93	160-1144	2.048 Length, W/ Damper
		1985-93	160-1144HP	2.023 Length, W/ Damper, Hi-Perf.
		1985-93	160-1407	2.140 Length, W/ Damper, Optional Hi-Perf.
Rotator	Exh	1985-93	161-1012	
Lifter	Both	1985-88	VL37	Hydraulic Type
		1987-93	VL115	Hydraulic Roller Type, Always Install Oil Hole Up To Valley On "V" Style Engines.
Rocker Components	Both	1985-93	180-1228	Rocker Arm
		1985-93	180-1239	Rocker Arm, Stamped, Long Slot
		1985-93	180-1283	Rocker Arm, Rail Type, Optional
		1985-93	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1985-93	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut, High Perf., W/ 1.5:1 Ratio
		1985-93	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut, Optional
		1985-93	183-1017	Smooth Ball, 3/8
		1985-93	183-1032	Grooved Ball, 3/8

GM / PASSENGER CAR (Cont'd)

156 305 C.I., (5.0L), OHV, GAS, FI, 16 Valve, Vin E, F, L03, LB9, ""Chevrolet"" 305EF
 (cont.) 1985-93 V8 305 CID BORE - 94.9mm/3.74""

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	1985-93	184-1038	Nut, 3/8
Push Rod	Both	1985-88	192-1331	7.793 Length
		1987-93	192-1485	7.195 Length,W/ Hyd. Roller Lifters
Head Bolt Set		1985-93	220-1018	This bolt is NOT Torque to Yield,2 Required

157 307 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, VIN F 307F
 1968-73 V8 307 CID BORE - 98.4mm/3.88""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1968-73	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	1968-73	SB1562-2	1 ⁹ / ₁₆ O.D.,1 ¹⁵ / ₁₆ T I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	1968-73	00399	1.720 Head Diameter,+15 O/S Stem Available
		1968-73	01193	1.720 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
	Exh	1968-73	00400	1.500 Head Diameter,+3 & +15 O/S Stem Available
		1968-73	01192	1.500 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
		1968-73	01206S	1.500 Head Diameter,Stellite Face,Optional Material & Chrome Plated, +15 O/S Stem Available
Keeper	Both	1968-73	121-1003	1 SQ Bead Type
Stem Seal	Int	1968-73	122-1075	Positive Type,Viton Material,Ring & Band Style
	Exh	1968-73	122-1233	Umbrella Type,Nylon Material,Umbrella Style
	Both	1968-73	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1968-73	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1968-73	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
		1968-73	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		1968-73	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Both	1968-73	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1968-73	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Exh	1972-73	160-1009	1.910 Length,W/ Damper
	Both	1968-73	160-1144	2.048 Length,W/ Damper,Exc. 1972-73 Exh
		1968-73	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		1968-73	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Lifter	Both	1968-73	VL37	Hydraulic Type
Rocker Components	Both	1968-73	180-1228	Rocker Arm
		1968-73	180-1239	Rocker Arm, Stamped, Long Slot
		1968-73	180-1283	Rocker Arm, Rail Type,Optional
		1968-73	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut
		1968-73	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) ³ / ₈ Nut,High Perf., W/ 1.5:1 Ratio
		1968-73	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) ³ / ₈ Nut,Optional
		1968-73	183-1017	Smooth Ball, ³ / ₈
		1968-73	183-1032	Grooved Ball, ³ / ₈
		1968-73	184-1038	Nut, ³ / ₈
Push Rod	Both	1968-73	192-1331	7.793 Length
Head Bolt Set		1968-73	220-1018	This bolt is NOT Torque to Yield,2 Required

(Cont'd) GM / PASSENGER CAR**307 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, Vin 9, ""Oldmobile""**
1984-87 V8 307 CID**307-9 158****BORE - 96.5mm/3.80""**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1984-87	SB1875-2	1 $\frac{7}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{1}{4}$ Depth 1 $\frac{9}{16}$ O.D., 1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1984-87	SB1562-1	
Valve	Int	1984-87	01450	1.750 Head Diameter
Keeper	Both	1984-87	121-1003	1 SQ Bead Type
Stem Seal	Both	1984-87	122-1037	Umbrella Type, Poly Material, Umbrella Style O-Ring Type, Nitrile Material, O-Ring Style Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss Umbrella Type, Viton Material, Umbrella Style
		1984-87	122-1043	
		1984-87	122-1048	
		1984-87	122-1270	
Guide	Both	1984-87	140-9873	0.3450 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1984-87	160-1006	1.960 Length, Exc. 1985-87 VIN 9 2.010 Length, W/ Damper
		1985-87	160-1049	
Lifter	Both	1984-85	VL49	Hydraulic Type, Exc. Hi-Perf. Hydraulic Roller Type
		1985-87	VL114	
Rocker Components	Both	1984-87	181-1059	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge Fulcrum, Short Fulcrum, Long Bridge, When Replacing, Fulcrum # 183-1027 Must Also Be Used
		1984-87	183-1014	
		1984-87	183-1027	
		1984-87	183-1028	
Push Rod	Both	1984-85	190-1438	8.245 Length 7.702 Length, W/ Roller Lifters
		1985-87	190-1489	

307 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, Vin Y, ""Oldsmobile""
1980-90 V8 307 CID**307Y 159****BORE - 96.5mm/3.80""**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1980-90	SB1875-2	1 $\frac{7}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{1}{4}$ Depth 1 $\frac{9}{16}$ O.D., 1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1980-90	SB1562-1	
Valve	Int	1980-90	01450	1.750 Head Diameter 1.502 Head Diameter
	Exh	1980-90	01354	
Keeper	Both	1980-90	121-1003	1 SQ Bead Type
Stem Seal	Both	1980-90	122-1037	Umbrella Type, Poly Material, Umbrella Style O-Ring Type, Nitrile Material, O-Ring Style Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss Umbrella Type, Viton Material, Umbrella Style
		1980-90	122-1043	
		1980-90	122-1048	
		1980-90	122-1270	
Guide	Both	1980-90	140-6873	0.3450 I.D., 2.125 Length, 0.5020 O.D., Plain I.D. Conversion Guide 0.3450 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
		1980-90	140-9873	
Spring	Both	1980-90	160-1006	1.960 Length
Lifter	Both	1980-85	VL49	Hydraulic Type, Exc. Hi-Perf. Hydraulic Roller Type
		1986-90	VL114	
Rocker Components	Both	1980-90	181-1059	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge Fulcrum, Short
		1980-90	183-1014	

GM / PASSENGER CAR (Cont'd)

159 307 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, Vin Y, ""Oldsmobile"" 307Y
 (cont.) 1980-90 V8 307 CID BORE - 96.5mm/3.80""

PART		YEARS	PART NO.	NOTES
Rocker Components	Both	1980-90	183-1027	Fulcrum, Long Bridge, When Replacing, Fulcrum # 183-1027 Must Also Be Used
		1980-90	183-1028	
Push Rod	Both	1980-85	190-1438	8.245 Length
		1986-90	190-1489	7.702 Length, W/ Roller Lifters

160 323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin C, LS4, ""AFM Vortec"" GMC5.3-LS4
 2005-09 V8 323 CID BORE - 96mm/3.78""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2005-09	SB2062-51	2 ¹ / ₁₆ O.D., 1.750T I.D., 0.3900 Depth, Also Available In Non-Magnetic (N) Material
		2005-09	SB2062-51PM	2 ¹ / ₁₆ O.D., 1.750T I.D., 0.3900 Depth, OEM Equivalent PM Material
	Exh	2005-09	SB1625-64	1 ⁵ / ₈ O.D., 1.335T I.D., 0.4200 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		2005-09	SB1625-64PM	1 ⁵ / ₈ O.D., 1.335T I.D., 0.4200 Depth, OEM Equivalent PM Material,
Valve	Int	2005-08	02000	2.000 Head Diameter
		2009-09	02267	2.000 Head Diameter
	Exh	2005-09	01935	1.551 Head Diameter
Keeper	Both	2005-09	121-1085	1 RD Bead Type
Stem Seal	Int	2005-09	122-1337	Positive Type, Viton Material, Top Hat Style
	Exh	2005-09	122-1338	
Guide	Both	2005-09	140-3053	0.3154 I.D., 2.115 Length, 0.5000 O.D., +2 O/S Available (140-3053+2)
		2005-09	140-3053H	0.3154 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional Hardened Version
		2005-09	140-3053U	0.3054 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional - 010 Undersized I.D.
		2008-09	340-1046BR	0.3150 I.D., 2.120 Length, 0.5010 O.D., NOTE: Optional Bronze Version
Spring	Both	2005-09	160-1488	2.130 Length, Conical
Lifter	Both	2005-09	VL558	AFM Hydraulic Roller Type, W/Spring, Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2005-09	VL558E	AFM Hydraulic Roller Type, W/Spring, Active Fuel Management, 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2005-09	VL558FG	AFM Lifter Guide-Front Type, OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2005-09	VL558RG	AFM Lifter Guide-Rear Type, OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2005-09	VL559	Hydraulic Roller Type, Oil Hole Is Positioned In Line With Roller Pin., Non-Active Fuel Management; OEM # 17122490; 8 Required
Rocker Components	Both	2005-09	180-1337	Rocker Arm, Roller Pivot Assy., NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2005-09	190-1537	7.397 Length
Head Bolt Set		2005-09	220-1103	Torque To Yield, NOTE: Services Engine

161 324 C.I., (5.3L), OHV, GAS, CARB, 16 Valve, ""Oldsmobile"" OLDS324
 1954-56 V8 324 CID BORE - 98.5mm/3.88""

PART		YEARS	PART NO.	NOTES
Guide	Int	1954-56	140-1821	0.3450 I.D., 2.374 Length, 0.6578 O.D.

(Cont'd) **GM / PASSENGER CAR**

324 C.I., (5.3L), OHV, GAS, CARB, 16 Valve, ""Oldsmobile"" OLDS324 **161**
1954-56 V8 324 CID BORE - 98.5mm/3.88"" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Exh 1954-56	140-1878	0.3973 I.D.,2.375 Length,0.6580 O.D.

326 C.I., (5.3L), OHV, GAS, CARB, 16 Valve, ""Pontiac"" 326PON **162**
1963-67 V8 326 CID BORE - 94.5mm/3.72""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1965-67	SB2000-1	2.000 O.D.,1¼ I.D.,7/32 Depth,Also Available In Non-Magnetic (N) Material
	Exh 1965-67	SB1750-2	1¾ O.D.,1½ I.D.,7/32 Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Keeper	Both 1963-67	121-1003	1 SQ Bead Type
Guide	Int 1963-67	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
	1963-67	140-7272	0.3440 I.D.,2.250 Length,0.5640 O.D.
	1963-67	140-7946	0.3430 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide
	1963-67	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh 1963-67	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
	1963-67	140-7271	0.3440 I.D.,2.375 Length,0.5640 O.D.
	1963-67	140-7459	0.3430 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
	1963-67	140-9459	0.3430 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	1963-67	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both 1963-64	160-1118	1.980 Length,Outer
	1963-64	160-1119	1.760 Length,Inner
	1965-67	160-1136	1.760 Length,Inner
	1965-67	160-1137	1.940 Length,Outer
Lifter	Both 1963-67	VL49	Hydraulic Type,Exc.Hi-Perf.
Push Rod	Both 1963-67	190-1433	8.686 Length>Note: (Hardened); +60 O/S (190-1433+60) Available,W/O Guide Plates

327 C.I., (5.3L), OHV, GAS, CARB, 16 Valve, ""Chevrolet Standard"" 327STD **163**
1962-69 V8 327 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1962-65	SB1812-3	1¾ O.D.,1½ I.D.,7/32 Depth,Use W/ 1.720 Head Dia.
	1965-69	SB2000-7	2.000 O.D.,1¾ I.D.,7/32 Depth,Use W/ 1.940 Head Dia.
	Exh 1962-69	SB1562-2	1¾ O.D.,1¼ I.D.,¼ Depth,Also Available In Non-Magnetic (N) Material
	1962-69	SB1562-7	1¾ O.D.,1¼ I.D.,¼ Depth,Optional Straight I.D.
Valve	Int 1962-65	00399	1.720 Head Diameter,+15 O/S Stem Available
	1965-69	00696	1.940 Head Diameter
	Exh 1962-69	00400	1.500 Head Diameter,+3 & +15 O/S Stem Available
	1962-69	01206S	1.500 Head Diameter,Stellite Face,Optional Material & Chrome Plated, +15 O/S Stem Available
Keeper	Both 1962-69	121-1003	1 SQ Bead Type
Stem Seal	Int 1962-69	122-1075	Positive Type,Viton Material,Ring & Band Style
	Exh 1962-69	122-1233	Umbrella Type,Nylon Material,Umbrella Style
	Both 1962-69	122-1037	Umbrella Type,Poly Material,Umbrella Style
	1962-69	122-1043	O-Ring Type,Nitrile Material,O-Ring Style

GM / PASSENGER CAR (Cont'd)

163 327 C.I., (5.3L), OHV, GAS, CARB, 16 Valve, ""Chevrolet Standard"" 327STD
 (cont.) 1962-69 V8 327 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1962-69	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
		1962-69	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		1962-69	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Int	1962-69	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1962-69	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1962-69	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
		1962-69	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
Spring	Both	1962-66	160-1125	2.050 Length,W/ Damper
		1967-69	160-1144	2.048 Length,W/ Damper
		1967-69	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		1967-69	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Rotator	Exh	1962-69	161-1012	
Lifter	Both	1962-69	VL37	Hydraulic Type
		1962-69	VL63	Mechanical High Performance Type
Rocker Components	Both	1962-69	180-1228	Rocker Arm
		1962-69	180-1239	Rocker Arm, Stamped, Long Slot
		1962-69	180-1283	Rocker Arm, Rail Type,Optional
		1962-69	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1962-69	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut,High Perf., W/ 1.5:1 Ratio
		1962-69	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional
		1962-69	183-1017	Smooth Ball, 3/8
		1962-69	183-1032	Grooved Ball, 3/8
1962-69	184-1038	Nut, 3/8		
Push Rod	Both	1962-69	192-1331	7.793 Length
Head Bolt Set		1962-69	220-1018	This bolt is NOT Torque to Yield,2 Required
Head Saver Shim		1962-69	230-2028	New Hgt. - Min. Hgt. N/A

164 327 C.I., (5.3L), OHV, GAS, CARB, FI, 16 Valve, ""Chevrolet HP/SHP"" 327HP
 1962-69 V8 327 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1962-64	SB2000-7	2.000 O.D.,1 ¹³ / ₁₆ I.D.,7/32 Depth,W/ 1.940 Valve Head Dia.
		1965-69	SB2125-34	2 ¹ / ₈ O.D.,1 ⁷ / ₈ I.D.,7/32 Depth,W/ 2.020 Valve Head Dia.
	Exh	1962-64	SB1562-2	1 ¹ / ₁₆ O.D.,1 ¹⁵ / ₁₆ T I.D.,1/4 Depth,Also Available In Non-Magnetic (N) Material,W/ 1.500 Valve Head Dia.
		1962-64	SB1562-7	1 ⁹ / ₁₆ O.D.,1 ¹ / ₄ I.D.,1/4 Depth,Optional Straight I.D. W/1.500 Valve Head Dia.
		1965-69	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D.,7/32 Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.600 Valve Head Dia.
Valve	Int	1962-64	00696	1.940 Head Diameter
		1965-69	00988	2.020 Head Diameter
	Exh	1962-64	00400	1.500 Head Diameter,+3 & +15 O/S Stem Available
		1965-69	00919	1.600 Head Diameter

(Cont'd) GM / PASSENGER CAR**327 C.I., (5.3L), OHV, GAS, CARB, FI, 16 Valve, ""Chevrolet HP/SHP""**
1962-69 V8 327 CID**327HP 164****BORE - 101.6mm/4.00"" (cont.)**

PART		YEARS	PART NO.	NOTES
Keeper	Both	1962-69	121-1003	1 SQ Bead Type
Stem Seal	Int	1962-69	122-1075	Positive Type,Viton Material,Ring & Band Style
	Exh	1962-69	122-1233	Umbrella Type,Nylon Material,Umbrella Style
	Both	1962-69	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1962-69	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1962-69	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
		1962-69	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
	1962-69	122-1270	Umbrella Type,Viton Material,Umbrella Style	
Guide	Int	1962-69	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1962-69	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1962-63	140-7459	0.3430 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1962-63	140-9459	0.3430 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
		1964-69	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
		1964-69	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
Spring	Both	1962-66	160-1125	2.050 Length,W/ Damper
		1967-69	160-1144	2.048 Length,W/ Damper
		1967-69	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		1967-69	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Rotator	Exh	1962-69	161-1012	
Lifter	Both	1962-69	VL63	Mechanical High Performance Type
Rocker Components	Both	1962-69	180-1228	Rocker Arm
		1962-69	180-1239	Rocker Arm, Stamped, Long Slot
		1962-69	180-1283	Rocker Arm, Rail Type,Optional
		1962-69	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut
		1962-69	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) ³ / ₈ Nut,High Perf., W/ 1.5:1 Ratio
		1962-69	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) ³ / ₈ Nut,Optional
		1962-69	183-1017	Smooth Ball, ³ / ₈
		1962-69	183-1032	Grooved Ball, ³ / ₈
1962-69	184-1038	Nut, ³ / ₈		
Push Rod	Both	1962-69	192-1331	7.793 Length
Head Bolt Set		1962-69	220-1018	This bolt is NOT Torque to Yield,2 Required

330 C.I., (5.4L), OHV, GAS, CARB, 16 Valve, ""Oldsmobile""
1964-67 V8 330 CID**GMC330 165****BORE - 100mm/3.94""**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1964-67	SB2000-1	2.000 O.D., ¹ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material
	Exh	1964-67	SB1687-2	1 ¹ / ₁₆ O.D., ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1964-67	00969	1.875 Head Diameter
	Exh	1964-67	00970	1.562 Head Diameter

GM / PASSENGER CAR (Cont'd)

165 330 C.I., (5.4L), OHV, GAS, CARB, 16 Valve, ""Oldsmobile""
(cont.) 1964-67 V8 330 CID

GMC330
BORE - 100mm/3.94""

PART	YEARS	PART NO.	NOTES
Keeper	Both	1964-67 121-1003	1 SQ Bead Type
Stem Seal	Both	1964-67 122-1074	Positive Type,Viton Material, Ring & Band Style
Guide	Both	1964-67 140-9873	0.3450 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1964-67 160-1147	1.960 Length,W/ Damper,1964 W/ Stamped Steel Rocker Arms, 1965-67 All
Lifter	Both	1964-67 VL49	Hydraulic Type,Exc.Hi-Perf.
Rocker Components	Both	1964-67 181-1057 1964-67 183-1027 1964-67 183-1028	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge Fulcrum, Long Bridge,When Replacing, Fulcrum # 183-1027 Must Also Be Used
Push Rod	Both	1964-64 190-1411	8.234 Length

166 340 C.I., (5.6L), OHV, GAS, CARB, 16 Valve, ""Buick""
1966-67 V8 340 CID

GMC340
BORE - 95.3mm/3.75""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1966-67 1966-67 SB1875-6 SB1437-3	1 $\frac{1}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth 1 $\frac{1}{16}$ O.D.,1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Exh	1966-67 00976	1.375 Head Diameter
Guide	Int	1966-67 1966-67 140-5607 140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2) 0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1966-67 1966-67 140-7460 140-9460	0.3430 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide 0.3430 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9460H)
Push Rod	Both	1966-67 190-1328	9.355 Length

167 346 C.I., (5.7L), GAS, CARB, 16 Valve, ""Cadillac""
1946-48 V8 346 CID

346CAD
BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES
Guide	Both	1946-48 140-1411	0.3440 I.D.,3.078 Length,0.6890 O.D.

168 350 C.I., (5.7L), OHV, GAS, CARB, 16 Valve, Vin L, ""Chevrolet""
1967-82 V8 350 CID

350L
BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1967-71 1969-77 SB2000-7 SB2125-34	2.000 O.D.,1 $\frac{13}{16}$ I.D., $\frac{7}{32}$ Depth,W/1.940 Valve Head Dia. 2 $\frac{1}{8}$ O.D.,1 $\frac{7}{8}$ I.D., $\frac{7}{32}$ Depth,W/ 2.020 Valve Head Dia., Hi-Perf. & Spec. Hi-Perf.
	Exh	1967-77 1967-82 1967-82 1967-82 SB1687-2 SB1500-4 SB1562-1 SB1562-36	1 $\frac{11}{16}$ O.D.,1 $\frac{7}{16}$ I.D., $\frac{7}{32}$ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.600 Valve Head Dia., Hi-Perf. & Spec. Hi-Perf. 1 $\frac{1}{2}$ O.D.,1 $\frac{7}{32}$ T I.D., $\frac{7}{32}$ Depth,Optional, for Cylinder Head W/ Thin Wall Sections 1 $\frac{1}{16}$ O.D.,1 $\frac{15}{16}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1 $\frac{1}{16}$ O.D.,1 $\frac{15}{16}$ I.D., $\frac{3}{16}$ Depth,Also Available In Non-Magnetic (N) Material,Optional, for Cylinder Head W/ Thin Wall Sections

(Cont'd) GM / PASSENGER CAR350 C.I., (5.7L), OHV, GAS, CARB, 16 Valve, Vin L, ""Chevrolet""
1967-82 V8 350 CID350L **168**
BORE - 101.6mm/4.00"" (cont.)

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1967-82	SB1562-9	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material, Optional, for Cylinder Head W/ Thin Wall Sections
Valve	Int	1967-82	01195	1.940 Head Diameter, Chrome Plated Exc. Hi-Perf., Special Perf., Corvette, Taxi & Police, +3 & +15 O/S Stem Available
		1968-71	00696	1.940 Head Diameter, Taxi & Police
		1969-77	00988	2.020 Head Diameter, Hi-Perf., Special Perf. & Corvette
	Exh	1967-70	00400	1.500 Head Diameter, Except Hi-Perf., +3 & +15 O/S
		1967-70	01206S	1.500 Head Diameter, Stellite Face, Optional Material, Exc. Hi-Perf., +15 O/S Stem Available
		1969-77 1971-82	00919 01192	1.600 Head Diameter, Hi-Perf., Special Perf. & Corvette 1.500 Head Diameter, Chrome Plated Exc. Hi-Perf., Special Perf., Corvette, Taxi & Police, +3 & +15 O/S Stem Available
Keeper	Both	1967-82	121-1003	1 SQ Bead Type
Stem Seal	Int	1967-82	122-1075	Positive Type, Viton Material, Ring & Band Style
		1967-82	122-1233	Umbrella Type, Nylon Material, Umbrella Style
	Exh	1967-82	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1967-82	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
	Both	1967-82	122-1047	Positive Type, Poly Material, 2-Ring Style
		1967-82	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		1967-82	122-1270	Umbrella Type, Viton Material, Umbrella Style
Guide	Int	1967-82	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
		1967-82	140-7946	0.3430 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide
	Exh	1967-82	140-9946	0.3430 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Exh	1973-80	160-1009	1.910 Length, W/ Damper
		1967-82	160-1144	2.048 Length, W/ Damper, Exc. 1973-80 Exh
	Both	1967-82	160-1144HP	2.023 Length, W/ Damper, Hi-Perf.
		1967-82	160-1407	2.140 Length, W/ Damper, Optional Hi-Perf.
Rotator	Exh	1967-82	161-1012	
Lifter	Both	1967-82	VL37	Hydraulic Type
Rocker Components	Both	1967-82	180-1228	Rocker Arm
		1967-82	180-1239	Rocker Arm, Stamped, Long Slot
		1967-82	180-1283	Rocker Arm, Rail Type, Optional
		1967-82	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut
		1967-82	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) ³ / ₈ Nut, High Perf., W/ 1.5:1 Ratio
		1967-82	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) ³ / ₈ Nut, Optional
		1967-82	183-1017	Smooth Ball, ³ / ₈
		1967-82	183-1032	Grooved Ball, ³ / ₈
		1967-82	184-1038	Nut, ³ / ₈
Push Rod	Both	1967-82	192-1331	7.793 Length
Head Bolt Set		1967-82	220-1018	This bolt is NOT Torque to Yield, 2 Required
Head Saver Shim		1967-82	230-2028	New Hgt. - Min. Hgt. N/A

GM / PASSENGER CAR (Cont'd)

169 350 C.I., (5.7L), OHV, GAS, CARB, 16 Valve, ""Pontiac""
1968-77 V8 350 CID

350P2

BORE - 98.4mm/3.88""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1968-77	SB2125-2	2 ¹ / ₈ O.D., 1 ⁷ / ₈ I.D., 1/4 Depth, W/ 2.110 Valve Head Dia.
		1970-74	SB2000-1	2.000 O.D., 1 ³ / ₄ I.D., 7/32 Depth, Also Available In Non-Magnetic (N) Material, W/ 1.960 Valve Head Dia.
	Exh	1968-72	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ⁹ / ₁₆ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material, W/ 1.770 Valve Head Dia.
		1970-77	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.660 Valve Head Dia.
Valve	Int	1968-69	01098	2.110 Head Diameter, 5.098 Overall Length, 4 Bbl. Carb.
		1970-74	01296	1.960 Head Diameter, 4.980 Overall Length
		1975-77	01161	2.110 Head Diameter, 4.979 Overall Length
	Exh	1968-69	01097	1.770 Head Diameter, 5.093 Overall Length, 4 Bbl. Carb.
		1970-71	01093	1.660 Head Diameter, 4.984 Overall Length
		1972-72	01160	1.770 Head Diameter, 4.970 Overall Length
		1973-77	01245	1.660 Head Diameter, 4.959 Overall Length
Keeper	Both	1968-77	121-1003	1 SQ Bead Type
Stem Seal	Both	1968-77	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1968-77	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1968-77	122-1047	Positive Type, Poly Material, 2-Ring Style
		1968-77	122-1270	Umbrella Type, Viton Material, Umbrella Style
Guide	Int	1968-77	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
		1968-77	140-5606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U)
	Exh	1968-77	140-7946	0.3430 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1968-77	140-9606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9606U)
Spring	Both	1968-68	160-1156	2.112 Length, Inner W/ Ram Air
		1968-68	160-1157	2.100 Length, Outer W/ Ram Air
		1968-77	160-1136	1.760 Length, Inner
		1968-77	160-1137	1.940 Length, Outer
Lifter	Both	1968-77	VL49	Hydraulic Type, Exc. 69-70 W/ Ram Air., Exc. Hi-Perf.
Rocker Components	Both	1968-77	181-1020	Rocker Arm Kit, Includes (1) Rocker Arm (1) Grooved Ball, (1) 3/8 Nut
		1968-77	183-1021	Grooved Ball, 7/16
		1968-77	184-1038	Nut, 3/8
		1969-70	181-1025	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 3/8 Nut, W/ Ram Air IV
Push Rod	Both	1968-77	192-1229	9.136 Length, - 60 U/S (192-1229U60) Available

170 350 C.I., (5.7L), OHV, GAS, CARB, 16 Valve, Vin H, J, X, ""Buick""
1968-80 V8 350 CID

350HJX

BORE - 96.5mm/3.80""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1968-80	SB2000-1	2.000 O.D., 1 ³ / ₄ I.D., 7/32 Depth, Also Available In Non-Magnetic (N) Material
		1968-80	SB1625-1	1 ⁵ / ₈ O.D., 1 ¹ / ₈ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1968-80	01082	1.875 Head Diameter
		1968-74	01188	1.500 Head Diameter
		1975-80	01320	1.550 Head Diameter
Keeper	Both	1968-80	121-1002	No Bead Bead Type

(Cont'd) **GM / PASSENGER CAR**

350 C.I., (5.7L), OHV, GAS, CARB, 16 Valve, Vin H, J, X, ""Buick""
1968-80 V8 350 CID

350HJX 170
BORE - 96.5mm/3.80"" (cont.)

PART		YEARS	PART NO.	NOTES
Stem Seal	Both	1968-80	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1968-80	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1968-80	122-1047	Positive Type,Poly Material,2-Ring Style
		1968-80	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Int	1968-80	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1968-80	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
	Exh	1968-80	140-6113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1968-80	140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Exh	1971-80	160-1001	2.066 Length,W/ Damper
Lifter	Both	1968-69	VL5	Hydraulic Type
		1970-80	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1970-80	VL73	Hydraulic Type
Rocker Components	Both	1968-80	180-1040	Rocker Arm, Stamped Steel,R.H., Use W/ Retainer 187-1014
		1968-80	180-1041	Rocker Arm, Stamped Steel,L.H., Use W/ Retainer 187-1014
		1968-80	187-1014	Retainer,Use W/ Stamped Steel Rocker Arm
Push Rod	Both	1968-80	192-1330	9.682 Length

350 C.I., (5.7L), OHV, GAS, CARB, 16 Valve, Vin G, H, J, K, R, ""Oldsmobile Rocket""

1968-80 V8 350 CID

350R 171
BORE - 103mm/4.06""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1968-71	SB2125-2	2 ¹ / ₈ O.D.,1 ⁷ / ₈ I.D., ¹ / ₄ Depth,W/ 1.995 Valve Head Dia.
		1968-80	SB2000-1	2.000 O.D.,1 ³ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material,W/ 1.875 Valve Head Dia.
	Exh	1968-71	SB1687-17	1 ¹¹ / ₁₆ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth,W/ 1.624 Valve Head Dia.
		1968-71	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.562 Valve Head Dia.,
	1972-76	SB1750-2	1 ³ / ₄ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.622 Valve Head Dia.	
1977-80	SB1562-2	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material,W/ 1.502 Valve Head Dia.		
Valve	Int	1968-71	01457	1.995 Head Diameter,W/ Outside Air Induction
		1968-72	00969	1.875 Head Diameter,4.740 Overall Length, Exc. 1968-71 W/O Outside Air Induction
	Exh	1973-80	01263	1.875 Head Diameter,4.667 Overall Length
		1968-71	00970	1.562 Head Diameter,W/O Outside Air Induction
		1968-71	00974	1.624 Head Diameter,W/ Outside Air Induction 4.695 Overall Length
		1972-72	01212	1.622 Head Diameter,4.708 Overall Length
		1973-76	01324	1.622 Head Diameter,4.675 Overall Length
		1977-80	01354	1.502 Head Diameter,4.688 Overall Length
Keeper	Exh	1968-80	121-1003	1 SQ Bead Type
Stem Seal	Both	1968-80	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1968-80	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1968-80	122-1047	Positive Type,Poly Material,2-Ring Style
		1968-80	122-1270	Umbrella Type,Viton Material,Umbrella Style

GM / PASSENGER CAR (Cont'd)

171 350 C.I., (5.7L), OHV, GAS, CARB, 16 Valve, Vin G, H, J, K, R, ""Oldsmobile

(cont.) Rocket""

350R

1968-80

V8 350 CID

BORE - 103mm/4.06""

PART		YEARS	PART NO.	NOTES
Guide	Exh	1968-80	140-7946	0.3430 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide
	Both	1968-80	140-6873	0.3450 I.D.,2.125 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1968-80	140-9873	0.3450 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1968-72	160-1147	1.960 Length,W/ Damper
		1972-80	160-1006	1.960 Length,Exc. 1972 Exh W/ Damper
Lifter	Both	1968-80	VL49	Hydraulic Type,Exc.Hi-Perf.
Rocker Components	Both	1968-79	181-1057	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
		1968-80	183-1014	Fulcrum, Short
		1968-80	183-1027	Fulcrum, Long
		1968-80	183-1028	Bridge,When Replacing, Fulcrum # 183-1027 Must Also Be Used
		1980-80	181-1059	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
Push Rod	Both	1968-79	190-1411	8.234 Length
		1980-80	190-1438	8.245 Length

172 350 C.I., (5.7L), OHV, DIESEL, FI, 16 Valve, Vin N, ""Oldsmobile""

350N

1978-85

V8 350 CID

BORE - 101.6mm/4.00""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1978-85	SB2000-1	2.000 O.D.,1 ³ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material
	Exh	1978-85	SB1687-16	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ³ / ₁₆ Depth
Keeper	Both	1978-85	121-1003	1 SQ Bead Type
Stem Seal	Both	1978-85	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1978-85	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1978-85	122-1047	Positive Type,Poly Material,2-Ring Style
		1978-85	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Exh	1978-85	140-7946	0.3430 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide
	Both	1978-85	140-7562	0.3450 I.D.,2.375 Length,0.5640 O.D.,Plain I.D. Conversion Guide
Spring	Both	1980-85	160-1049	2.010 Length,W/ Damper
Lifter	Both	1980-85	VL114	Hydraulic Roller Type
Rocker Components	Both	1978-79	181-1057	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
		1978-85	183-1014	Fulcrum, Short
		1978-85	183-1027	Fulcrum, Long
		1978-85	183-1028	Bridge,When Replacing, Fulcrum # 183-1027 Must Also Be Used
		1980-85	181-1059	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
Push Rod	Both	1978-79	190-1411	8.234 Length
		1980-80	190-1438	8.245 Length
		1980-85	190-1489	7.702 Length

(Cont'd) GM / PASSENGER CAR350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin 7, 8
1982-93 V8 350 CID350-7-8 **173**

BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1982-93	SB2000-7	2.000 O.D., 1 ¹³ / ₁₆ I.D., ⁷ / ₃₂ Depth 1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1 ⁵ / ₈ O.D., 1 ⁵ / ₁₆ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material, W/ Vortec Cylinder Head
	Exh	1982-93	SB1562-1	
		1982-93	SB1625-3	
Valve	Int	1982-93	01195	1.940 Head Diameter, +3 & +15 O/S Stem Available 1.500 Head Diameter, +3 & +15 O/S Stem Available
	Exh	1982-93	01192	
Keeper	Both	1982-93	121-1003	1 SQ Bead Type
Stem Seal	Int	1985-93	122-1075	Positive Type, Viton Material, Ring & Band Style Umbrella Type, Nylon Material, Umbrella Style Positive Type, Viton Material, Ring & Band Style Umbrella Type, Poly Material, Umbrella Style O-Ring Type, Nitrile Material, O-Ring Style Umbrella Type, Viton Material, Umbrella Style Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
	Exh	1982-93	122-1233	
		1985-93	122-1074	
	Both	1982-84	122-1037	
		1982-84	122-1043	
		1982-84	122-1270	
	1982-93	122-1238		
Guide	Int	1982-93	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
		1982-93	140-7946	
	Exh	1982-93	140-7999	0.3430 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide 0.3740 I.D., 2.200 Length, 0.6205 O.D., W/ Replaceable Exh. Guide, Use Caution When Removing Stepped O.D., NOTE: Drive Guide Out Toward Spring Seat 0.3430 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
		1982-93	140-9946	
		1982-93	140-8180	
Spring	Both	1982-93	160-1144	2.048 Length, W/ Damper 2.023 Length, W/ Damper, Hi-Perf. 2.140 Length, W/ Damper, Optional Hi-Perf.
		1982-93	160-1144HP	
		1982-93	160-1407	
Rotator	Exh	1982-93	161-1012	
Lifter	Both	1982-86	VL37	Hydraulic Type Hydraulic Roller Type, Always Install Oil Hole Up To Valley On "V" Style Engines.
		1987-93	VL115	
Rocker Components	Both	1982-93	180-1228	Rocker Arm Rocker Arm, Stamped, Long Slot Rocker Arm, Rail Type, Optional, 88-93 Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) ³ / ₈ Nut, High Perf., W/ 1.5:1 Ratio Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) ³ / ₈ Nut, Optional Smooth Ball, ³ / ₈ Nut, ³ / ₈
		1982-93	180-1239	
		1982-93	180-1283	
		1982-93	181-1011	
		1982-93	181-1049	
		1982-93	181-1061	
		1982-93	183-1017	
		1982-93	184-1038	
Push Rod	Both	1982-93	192-1331	7.793 Length 7.195 Length, W/ Hyd. Roller Lifters
		1987-93	192-1485	
Head Bolt Set		1982-93	220-1018	This bolt is NOT Torque to Yield, 2 Required
Head Saver Shim		1982-93	230-2028	New Hgt. - Min. Hgt. N/A

GM / PASSENGER CAR (Cont'd)

174 350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin S, LS6, ""Z06""

5.7-LS6

2001-05

V8 350 CID

BORE - 99mm/3.90""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2001-05	SB2062-51	2 ¹ / ₁₆ O.D., 1.750T I.D., 0.3900 Depth, Also Available In Non-Magnetic (N) Material
		2001-05	SB2062-51PM	2 ¹ / ₁₆ O.D., 1.750T I.D., 0.3900 Depth, OEM Equivalent PM Material
	Exh	2001-05	SB1625-64	1 ⁵ / ₈ O.D., 1.335T I.D., 0.4200 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, Seat May Need To Be Machined To Achieve Correct Depth
		2001-05	SB1625-64PM	1 ⁵ / ₈ O.D., 1.335T I.D., 0.4200 Depth, OEM Equivalent PM Material, NOTE: Seat May Need To Be Machined To Achieve Correct Depth.
Valve	Int	2001-05	02000	2.000 Head Diameter, NOTE: Except Hollow Stem Valve
		2001-05	02000R-200	2.000 Head Diameter, NOTE: Optional One Piece Stainless Steel Performance Valve W/ Stock Head Dia.; See Performance Catalog For More Details
		2001-05	02000R-202	2.020 Head Diameter, NOTE: Optional One Piece Stainless Steel Performance Valve W/ +0.020 Head Dia.; See Performance Catalog For More Details
		2001-05	02000R-205	2.050 Head Diameter, NOTE: Optional One Piece Stainless Steel Performance Valve W/ +0.050 Head Dia.; See Performance Catalog For More Details
	Exh	2001-05	01935	1.551 Head Diameter, NOTE: Except Hollow Stem Sodium Filled Valve
		2001-05	01935R-155	1.550 Head Diameter, NOTE: Optional One Piece Stainless Steel Performance Valve W/ Stock Head Dia.; See Performance Catalog For More Details
		2001-05	01935R-157	1.570 Head Diameter, NOTE: Optional One Piece Stainless Steel Performance Valve W/ +0.020 Head Dia.; See Performance Catalog For More Details
		2001-05	01935R-160	1.600 Head Diameter, NOTE: Optional One Piece Stainless Steel Performance Valve W/ +0.050 Head Dia.; See Performance Catalog For More Details
Keeper	Both	2001-05	121-1085	1 RD Bead Type
Stem Seal	Int	2002-05	122-1337	Positive Type, Viton Material, Top Hat Style, 2nd Design
	Exh	2002-05	122-1338	Positive Type, Viton Material, Top Hat Style, 2nd Design
	Both	2001-01	122-1323	Positive Type, Viton Material, Metal Clad Style, 1st Design
Guide	Both	2001-05	140-3053	0.3154 I.D., 2.115 Length, 0.5000 O.D., +2 O/S Available (140-3053+2)
		2001-05	140-3053H	0.3154 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional Hardened Version
		2001-05	140-3053U	0.3054 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional - 010 Undersized I.D.
		2001-05	340-1046BR	0.3150 I.D., 2.120 Length, 0.5010 O.D., NOTE: Optional Bronze Version
Spring	Both	2002-05	160-1623	2.098 Length, Conical
Lifter	Both	2001-05	VL115	Hydraulic Roller Type, Always Install Oil Hole Up To Valley On ""V"" Style Engines.
Rocker Components	Both	2001-05	180-1337	Rocker Arm, Roller Pivot Assy., NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2001-05	190-1537	7.397 Length
Head Bolt Set		2001-04	220-1102	Torque To Yield, 1st Design; NOTE: Services Engine
		2004-05	220-1103	Torque To Yield, 2nd Design; NOTE: Services Engine

(Cont'd) GM / PASSENGER CAR**350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin G, LS1**
1997-04 V8 350 CID**5.7-LS1 175****BORE - 99mm/3.90"**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1997-04	SB2062-51	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,Also Available In Non-Magnetic (N) Material
		1997-04	SB2062-51PM	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,OEM Equivalent PM Material
	Exh	1997-04	SB1625-64	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,Seat May Need To Be Machined To Achieve Correct Depth
		1997-04	SB1625-64PM	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,OEM Equivalent PM Material, NOTE: Seat May Need To Be Machined To Achieve Correct Depth.
Valve	Int	1997-04	02000	2.000 Head Diameter
		1997-04	02000R-200	2.000 Head Diameter,NOTE: Optional One Piece Stainless Steel Performance Valve W/ Stock Head Dia.; See Performance Catalog For More Details
		1997-04	02000R-202	2.020 Head Diameter,NOTE: Optional One Piece Stainless Steel Performance Valve W/ +0.020 Head Dia.; See Performance Catalog For More Details
		1997-04	02000R-205	2.050 Head Diameter,NOTE: Optional One Piece Stainless Steel Performance Valve W/ +0.050 Head Dia.; See Performance Catalog For More Details
	Exh	1997-04	01935	1.551 Head Diameter
		1997-04	01935R-155	1.550 Head Diameter,NOTE: Optional One Piece Stainless Steel Performance Valve W/ Stock Head Dia.; See Performance Catalog For More Details
		1997-04	01935R-157	1.570 Head Diameter,NOTE: Optional One Piece Stainless Steel Performance Valve W/ +0.020 Head Dia.; See Performance Catalog For More Details
		1997-04	01935R-160	1.600 Head Diameter,NOTE: Optional One Piece Stainless Steel Performance Valve W/ +0.050 Head Dia.; See Performance Catalog For More Details
Keeper	Both	1997-04	121-1085	1 RD Bead Type
Stem Seal	Int	2001-04	122-1337	Positive Type,Viton Material,Top Hat Style,2nd Design.
	Exh	2001-04	122-1338	Positive Type,Viton Material,Top Hat Style,2nd Design.
	Both	1997-01	122-1323	Positive Type,Viton Material,Metal Clad Style,1st Design
Guide	Both	1997-04	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		1997-04	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		1997-04	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		1997-04	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	1997-04	160-1488	2.130 Length,Conical
Lifter	Both	1997-04	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490
		1997-04	VL559G	Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
Rocker Components	Both	1997-04	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	1997-04	190-1537	7.397 Length
Head Bolt Set		1997-04	220-1102	Torque To Yield,1st Design; NOTE: Services Engine
		2004-04	220-1103	Torque To Yield,2nd Design; NOTE: Services Engine
Head Saver Shim		1997-04	230-2129	New Hgt.- 4.7550; Min Hgt.- 4.7320

GM / PASSENGER CAR (Cont'd)

176 350 C.I., (5.7L), DOHC, GAS, FI, 32 Valve, Vin J, LT5, ""ZR-1"" 5.7-LT5
 1990-95 V8 350 CID BORE - 99mm/3.90""

PART	YEARS	PART NO.	NOTES
Keeper	Both	1990-95 121-1003	1 SQ Bead Type
Lifter	Both	1990-95 VL116	Hydraulic Bucket Type

177 350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin P, LT1, ""Cast Iron Heads"" GMC5.7-LT1_C
 1994-96 V8 350 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1994-96 1994-96	SB2000-36 SB1562-1	2.000 O.D., 1 $\frac{1}{4}$ I.D., $\frac{3}{16}$ Depth 1 $\frac{1}{16}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int Exh	1994-96 1994-96 1994-96	01931 01807 01807S	1.940 Head Diameter, 1 Groove, NOTE: +15 O/S Stem Available 1.500 Head Diameter, 1 Groove, NOTE: +15 O/S Stem Available 1.500 Head Diameter, Stellite Face, NOTE: Optional; +15 O/S Stem Available
Keeper	Both	1994-96	121-1003	1 SQ Bead Type
Stem Seal	Both	1994-96	122-1260	Positive Type, Viton Material, Metal Clad Style
Guide	Int Exh Both	1994-96 1994-96 1994-96 1994-96 1994-96	140-9867 140-7946 140-9946 140-5607 140-9607	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U) 0.3430 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide 0.3430 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide 0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2) 0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1994-96	160-1266	2.040 Length
Lifter	Both	1994-96	VL115	Hydraulic Roller Type, Always Install Oil Hole Up To Valley On ""V"" Style Engines.
Rocker Components	Both	1994-96 1994-96 1994-96 1994-96 1994-96 1994-96 1994-96 1994-96 1994-96	180-1228 180-1239 180-1283 181-1011 181-1049 181-1061 183-1017 183-1032 184-1038	Rocker Arm Rocker Arm, Stamped, Long Slot, High Perf., W/ 1.5:1 Ratio Rocker Arm, Rail Type, Optional Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) $\frac{3}{8}$ Nut Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) $\frac{3}{8}$ Nut, High Perf., W/ 1.5:1 Ratio Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) $\frac{3}{8}$ Nut, Optional Smooth Ball, $\frac{3}{8}$ Grooved Ball, $\frac{3}{8}$ Nut, $\frac{3}{8}$
Push Rod	Both	1994-96	192-1485	7.195 Length
Head Bolt Set		1994-96	220-1018	This bolt is NOT Torque to Yield, 2 Required
Head Saver Shim		1994-96	230-2128	New Hgt. - Min. Hgt - N/A

178 350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin P, LT1, ""Aluminum Heads"" 350P
 1992-97 V8 350 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Valve	Int	1992-93	01195	1.940 Head Diameter, NOTE: 4.880 Overall Length, W/ Seal Groove ; + 3 & +15 O/S Stem Available

(Cont'd) **GM / PASSENGER CAR**

350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin P, LT1, ""Aluminum Heads"" 350P **178**
1992-97 V8 350 CID BORE - 101.6mm/4.00"" (cont.)

PART	YEARS	PART NO.	NOTES	
Valve	Int	1994-97	01931	1.940 Head Diameter,1 Groove,NOTE: 4.880 Overall Length, W/O Oil Seal Groove; +15 O/S Stem Available
	Exh	1992-93	01809	1.500 Head Diameter,NOTE: 4.904 Overall Length
		1994-97	01807	1.500 Head Diameter,1 Groove,NOTE: 4.920 Overall Length; +15 O/S Available
		1994-97	01807S	1.500 Head Diameter,Stellite Face,NOTE: 4.920 Overall Length, Optional; +15 O/S Stem Available
Keeper	Both	1992-97	121-1003	1 SQ Bead Type
Stem Seal	Both	1992-93	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1992-93	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1992-93	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use 122-1238 +15 For Oversize Stems
		1992-93	122-1270	Umbrella Type,Viton Material,Umbrella Style
		1994-97	122-1260	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1992-97	140-8180	0.3430 I.D.,2.275 Length,0.5577 O.D.,+2 O/S Available
Lifter	Both	1992-97	VL115	Hydraulic Roller Type,Always Install Oil Hole Up To Valley On ""V"" Style Engines.
Rocker Components	Both	1992-97	180-1228	Rocker Arm
		1992-97	180-1239	Rocker Arm, Stamped, Long Slot,High Perf., W/ 1.5:1 Ratio
		1992-97	180-1283	Rocker Arm, Rail Type,Optional
		1992-97	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1992-97	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut,High Perf., W/ 1.5:1 Ratio
		1992-97	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional
		1992-97	183-1017	Smooth Ball, 3/8
		1992-97	183-1032	Grooved Ball, 3/8
1992-97	184-1038	Nut, 3/8		
Push Rod	Both	1992-97	192-1485	7.195 Length
Head Bolt Set		1992-97	220-1018	This bolt is NOT Torque to Yield,2 Required
Head Saver Shim		1992-97	230-2128	New Hgt.- Min. Hgt - N/A

350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin 5, LT4, ""W/Manual Trans. "" 5.7-LT4 **179**
1996-96 V8 350 CID BORE - 98.4mm/3.88""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	1996-96	121-1003	1 SQ Bead Type
Stem Seal	Both	1996-96	122-1260	Positive Type,Viton Material,Metal Clad Style
Lifter	Both	1996-96	VL115	Hydraulic Roller Type,Always Install Oil Hole Up To Valley On ""V"" Style Engines.
Push Rod	Both	1996-96	192-1485	7.195 Length

364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin Y, L76, ""AFM Vortec"" GMC6.0-L76 **180**
2008-09 V8 364 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2008-09	SB2250-50	2 1/4 O.D.,1 1/8 I.D.,3/8 Depth,NOTE: Universal Repair Seat, Requires 2 1/4"" Cutter.
		2008-09	SB2250-50PM	2 1/4 O.D.,1 1/8 I.D.,3/8 Depth,OEM Equivalent PM Material, NOTE: Universal Repair Seat, Requires 2 1/4"" Cutter.
	Exh	2008-09	SB1634E-3	1.634 O.D.,1.360T I.D.,0.3000 Depth,NOTE: Services Factory Installed Seat.
		2008-09	SB1634E-3PM	1.634 O.D.,1.360T I.D.,0.3000 Depth,OEM Equivalent PM Material. NOTE: Services Factory Installed Seat.

GM / PASSENGER CAR (Cont'd)

180 364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin Y, L76, ""AFM Vortec"" GMC6.0-L76
 (cont.) 2008-09 V8 364 CID BORE - 101.6mm/4.00""

PART		YEARS	PART NO.	NOTES
Valve	Int	2008-09	13040	2.165 Head Diameter
	Exh	2008-09	13042	1.587 Head Diameter
Keeper	Both	2008-09	121-1085	1 RD Bead Type
Stem Seal	Int	2008-09	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2008-09	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2008-09	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2008-09	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2008-09	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2008-09	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Lifter	Both	2008-09	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2008-09	VL558E	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2008-09	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2008-09	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2008-09	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required
Rocker Components	Exh	2008-09	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2008-09	190-1537	7.397 Length
Head Bolt Set		2008-09	220-1123	Torque To Yield,Services Engine
Head Saver Shim		2008-09	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

181 364 C.I., (6.0L), OHV, FLEX, FI, 16 Valve, Vin 2, L77, ""AFM Vortec"" GMC6.0-L77
 2011-17 V8 364 CID BORE - 101.6mm/4.00""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2011-17	SB2250-50	2¼ O.D.,17⁄8 I.D.,¾ Depth,NOTE: Universal Repair Seat, Requires 2¼"" Cutter.
		2011-17	SB2250-50PM	2¼ O.D.,17⁄8 I.D.,¾ Depth,OEM Equivalent PM Material, NOTE: Universal Repair Seat, Requires 2.¼"" Cutter.
	Exh	2011-17	SB1634E-3	1.634 O.D.,1.360T I.D.,0.3000 Depth,NOTE: Services Factory Installed Seat.
		2011-17	SB1634E-3PM	1.634 O.D.,1.360T I.D.,0.3000 Depth,OEM Equivalent PM Material. NOTE: Services Factory Installed Seat.
Valve	Int	2011-17	13240	2.165 Head Diameter
	Exh	2011-17	13042	1.587 Head Diameter
Keeper	Both	2011-17	121-1085	1 RD Bead Type
Stem Seal	Int	2011-17	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2011-17	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2011-17	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2011-17	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version

(Cont'd) GM / PASSENGER CAR

364 C.I., (6.0L), OHV, FLEX, FI, 16 Valve, Vin 2, L77, ""AFM Vortec"" **GMC6.0-L77 181**
 2011-17 V8 364 CID **BORE - 101.6mm/4.00"" (cont.)**

PART		YEARS	PART NO.	NOTES
Guide	Both	2011-17	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2011-17	160-1488	2.130 Length,Conical
Lifter	Both	2011-17	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2011-17	VL558E	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2011-17	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2011-17	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2011-17	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required
Rocker Components	Int	2011-17	180-1336	Rocker Arm, Roller Pivot Assy.,NOTE: Offset, Use With Large Rectangular Intake Ports; Captive Bearing Design With High Grade Steel Trunion
	Exh	2011-17	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Head Bolt Set		2011-17	220-1123	Torque To Yield,Services Engine
Head Saver Shim		2011-17	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin U, LS2, ""Vortec"" **GMC6.0-LS2 182**
 2005-07 V8 364 CID **BORE - 101.6mm/4.00""**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2005-07	SB2062-51	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,Also Available In Non-Magnetic (N) Material
		2005-07	SB2062-51PM	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,OEM Equivalent PM Material
	Exh	2005-07	SB1625-64	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		2005-07	SB1625-64PM	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,OEM Equivalent PM Material,
Valve	Int	2005-07	02000	2.000 Head Diameter
	Exh	2005-07	01935	1.551 Head Diameter
Keeper	Both	2005-07	121-1085	1 RD Bead Type
Stem Seal	Int	2005-07	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2005-07	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2005-07	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2005-07	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2005-07	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2005-07	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.
Spring	Both	2005-07	160-1623	2.098 Length,Conical
Lifter	Both	2005-07	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.
		2005-07	VL559G	Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.

GM / PASSENGER CAR (Cont'd)

182 364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin U, LS2, ""Vortec"" GMC6.0-LS2
 (cont.) 2005-07 V8 364 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	2005-07	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2005-07	190-1537	7.397 Length
Head Bolt Set		2005-07	220-1103	Torque To Yield,NOTE: Services Engine
Head Saver Shim		2005-07	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

183 365 C.I., (6.0L), OHV, GAS, CARB, 16 Valve, ""Cadillac"" 365CAD
 1956-58 V8 365 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Guide	Both	1956-58	140-1745	0.3445 I.D.,2.266 Length,0.5636 O.D.
Lifter	Both	1956-58	VL5	Hydraulic Type

184 368 C.I., (6.0L), OHV, GAS, CARB, 16 Valve, Vin 6, ""Cadillac"" 368-6
 1980-84 V8 368 CID BORE - 96.5mm/3.80""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1980-84	SB1812-4	1 ¹³ / ₁₆ O.D.,1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1980-84	SB1562-9	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material
Keeper	Both	1980-84	121-1003	1 SQ Bead Type
Stem Seal	Both	1980-84	122-1217	Positive Type,Viton Material,Ring & Band Style
Guide	Both	1980-84	140-6523	0.3440 I.D.,3.063 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1980-84	140-9523	0.3440 I.D.,3.063 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9523H)
Spring	Both	1980-84	160-1121	2.250 Length
Lifter	Both	1980-84	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1980-84	VL73	Hydraulic Type
Push Rod	Both	1980-84	190-1385	10.200 Length

185 368 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin 9, ""Cadillac"" 368-9
 1980-84 V8 368 CID BORE - 96.5mm/3.80""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1980-84	SB1812-4	1 ¹³ / ₁₆ O.D.,1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1980-84	SB1562-9	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material
Keeper	Both	1980-84	121-1003	1 SQ Bead Type
Stem Seal	Both	1980-84	122-1217	Positive Type,Viton Material,Ring & Band Style
Guide	Both	1980-84	140-6523	0.3440 I.D.,3.063 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1980-84	140-9523	0.3440 I.D.,3.063 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9523H)
Spring	Both	1980-84	160-1121	2.250 Length
Lifter	Both	1980-84	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1980-84	VL73	Hydraulic Type
Push Rod	Both	1980-84	190-1385	10.200 Length

(Cont'd) **GM / PASSENGER CAR**

371 C.I., (6.1L), OHV, GAS, CARB, 16 Valve, ""Oldsmobile"" 371OLDS **186**
1957-60 V8 371 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Guide	Int	1957-60	140-1821	0.3450 I.D.,2.374 Length,0.6578 O.D.
	Exh	1957-60	140-1878	0.3973 I.D.,2.375 Length,0.6580 O.D.

376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin J, L99, ""AFM W/Auto Trans. "" GMC6.2-L99 **187**
2010-15 V8 376 CID BORE - 103.2mm/4.06""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2010-15	SB2250-50	2¼ O.D.,1⅞ I.D.,¾ Depth,NOTE: Universal Repair Seat, Requires 2¼"" Cutter.
		2010-15	SB2250-50PM	2¼ O.D.,1⅞ I.D.,¾ Depth,OEM Equivalent PM Material, NOTE: Universal Repair Seat, Requires 2.¼"" Cutter.
	Exh	2010-15	SB1634E-3	1.634 O.D.,1.360T I.D.,0.3000 Depth,NOTE: Services Factory Installed Seat.
		2010-15	SB1634E-3PM	1.634 O.D.,1.360T I.D.,0.3000 Depth,OEM Equivalent PM Material. NOTE: Services Factory Installed Seat.
Valve	Int	2010-15	13240	2.165 Head Diameter,NOTE: 4.870 Overall Length
	Exh	2010-15	13042	1.587 Head Diameter
Keeper	Both	2010-15	121-1085	1 RD Bead Type
Stem Seal	Int	2010-15	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2010-15	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2010-15	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2010-15	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2010-15	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2010-15	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2010-15	160-1623	2.098 Length,Conical
Lifter	Both	2010-15	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2010-15	VL558E	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2010-15	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2010-15	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2010-15	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required
Rocker Components	Int	2010-15	180-1336	Rocker Arm, Roller Pivot Assy.,NOTE: Offset, Use With Large Rectangular Intake Ports; Captive Bearing Design With High Grade Steel Trunion
	Exh	2010-15	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2010-15	190-1537	7.397 Length
Head Bolt Set		2010-15	220-1123	Torque To Yield,Services Engine
Head Saver Shim		2010-13	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

GM / PASSENGER CAR (Cont'd)

188 376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin W, LS3, ""AFM W/Auto

Trans. ""
2008-17

V8 376 CID

GMC6.2-LS3_AT
BORE - 103.2mm/4.06""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2008-17	SB2250-50 2¼ O.D., 17⁄8 I.D., 3⁄8 Depth, NOTE: Universal Repair Seat, Requires 2¼"" Cutter.
		2008-17	SB2250-50PM 2¼ O.D., 17⁄8 I.D., 3⁄8 Depth, OEM Equivalent PM Material, NOTE: Universal Repair Seat, Requires 2.¼"" Cutter.
	Exh	2008-17	SB1634E-3 1.634 O.D., 1.360T I.D., 0.3000 Depth, NOTE: Services Factory Installed Seat.
		2008-17	SB1634E-3PM 1.634 O.D., 1.360T I.D., 0.3000 Depth, OEM Equivalent PM Material. NOTE: Services Factory Installed Seat.
Valve	Int	2008-17	13240 2.165 Head Diameter, NOTE: 4.870 Overall Length, Nitride Valve OEM # 12627970
		2017-17	13239 2.165 Head Diameter, NOTE: 4.890 Overall Length, Chrome Plated Valve OEM # 12569427
	Exh	2008-17	13042 1.587 Head Diameter
Keeper	Both	2008-17	121-1085 1 RD Bead Type
Stem Seal	Int	2008-17	122-1337 Positive Type, Viton Material, Top Hat Style
	Exh	2008-17	122-1338 Positive Type, Viton Material, Top Hat Style
Guide	Both	2008-17	140-3053 0.3154 I.D., 2.115 Length, 0.5000 O.D., +2 O/S Available (140-3053+2)
		2008-17	140-3053H 0.3154 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional Hardened Version
		2008-17	140-3053U 0.3054 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional - 010 Undersized I.D.
		2008-17	340-1046BR 0.3150 I.D., 2.120 Length, 0.5010 O.D., NOTE: Optional Bronze Version
Spring	Both	2008-16	160-1623 2.098 Length, Conical
Lifter	Both	2008-17	VL558 AFM Hydraulic Roller Type, W/Spring, Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2008-17	VL558E AFM Hydraulic Roller Type, W/Spring, Active Fuel Management, 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2008-17	VL558FG AFM Lifter Guide-Front Type, OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2008-17	VL558RG AFM Lifter Guide-Rear Type, OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2008-17	VL559 Hydraulic Roller Type, Oil Hole Is Positioned In Line With Roller Pin., Non-Active Fuel Management; OEM # 17122490
Rocker Components	Int	2008-17	180-1336 Rocker Arm, Roller Pivot Assy., NOTE: Offset, Use With Large Rectangular Intake Ports; Captive Bearing Design With High Grade Steel Trunion
	Exh	2008-17	180-1337 Rocker Arm, Roller Pivot Assy., NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2008-17	190-1537 7.397 Length
Head Bolt Set		2008-17	220-1123 Torque To Yield, Services Engine
Head Saver Shim		2008-17	230-2187 New Hgt. - 4.732; Min. Hgt. - N/A

189 376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin W, LS3, ""AFM W/Manual

Trans. ""
2008-17

V8 376 CID

GMC6.2-LS3_MT
BORE - 103.2mm/4.06""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2008-17	SB2250-50 2¼ O.D., 17⁄8 I.D., 3⁄8 Depth
		2008-17	SB2250-50PM 2¼ O.D., 17⁄8 I.D., 3⁄8 Depth, OEM Equivalent PM Material,

(Cont'd) **GM / PASSENGER CAR**

376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin W, LS3, ""AFM W/Manual Trans. ""
2008-17 V8 376 CID

189
GMC6.2-LS3_MT (cont.)
BORE - 103.2mm/4.06""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	2008-17	SB1634E-3	1.634 O.D.,1.360T I.D.,0.3000 Depth,NOTE: Services Factory Installed Seat.
		2008-17	SB1634E-3PM	1.634 O.D.,1.360T I.D.,0.3000 Depth,OEM Equivalent PM Material. NOTE: Services Factory Installed Seat.
Valve	Int	2008-17	13239	2.165 Head Diameter,NOTE: 4.890 Overall Length, Chrome Plated Valve OEM # 12569427
	Exh	2008-17	13042	1.587 Head Diameter
Keeper	Both	2008-17	121-1085	1 RD Bead Type
Stem Seal	Int	2008-17	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2008-17	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2008-17	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2008-17	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2008-17	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2008-17	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2008-17	160-1623	2.098 Length,Conical
Lifter	Both	2008-17	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2008-17	VL558E	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2008-17	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2008-17	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2008-17	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490
Rocker Components	Int	2008-17	180-1336	Rocker Arm, Roller Pivot Assy.,NOTE: Offset, Use With Large Rectangular Intake Ports; Captive Bearing Design With High Grade Steel Trunion
	Exh	2008-17	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2008-17	190-1537	7.397 Length
Head Bolt Set		2008-17	220-1123	Torque To Yield,Services Engine
Head Saver Shim		2008-17	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin R, T, LS9, ""Supercharged""
2009-13 V8 376 CID

190
GMC6.2-LS9
BORE - 103.2mm/4.06""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2009-13	121-1085	1 RD Bead Type
Stem Seal	Int	2009-13	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2009-13	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2009-13	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2009-13	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2009-13	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.

GM / PASSENGER CAR (Cont'd)

190 376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin R, T, LS9, ""Supercharged"" GMC6.2-LS9
(cont.) 2009-13 V8 376 CID BORE - 103.2mm/4.06""

PART	YEARS	PART NO.	NOTES	
Guide	Both	2009-13	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2009-13	160-1623	2.098 Length,Conical
Lifter	Both	2009-13	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490 Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
		2009-13	VL559G	
Rocker Components	Both	2009-13	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2009-13	190-1537	7.397 Length

191 376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin P, LSA, ""Supercharged"" GMC6.2-LSA
2009-15 V8 376 CID BORE - 103.2mm/4.06""

PART	YEARS	PART NO.	NOTES	
Valve	Exh	2009-15	13042	1.587 Head Diameter
Keeper	Both	2009-15	121-1085	1 RD Bead Type
Stem Seal	Int	2009-15	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2009-15	122-1338	
Guide	Both	2009-15	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2009-15	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2009-15	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2009-15	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2009-15	160-1488	2.130 Length,Conical
Lifter	Both	2009-15	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490 Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
		2009-15	VL559G	
Rocker Components	Int	2009-15	180-1336	Rocker Arm, Roller Pivot Assy.,NOTE: Offset, Use With Large Rectangular Intake Ports; Captive Bearing Design With High Grade Steel Trunion
	Exh	2009-15	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2009-15	190-1537	7.397 Length

192 376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin P, LSA, ""ZL1 Supercharged"" GMC6.2-LSA_ZL1
2012-15 V8 376 CID BORE - 103.2mm/4.06""

PART	YEARS	PART NO.	NOTES	
Valve	Exh	2012-15	13042	1.587 Head Diameter
Keeper	Both	2012-15	121-1085	1 RD Bead Type
Stem Seal	Int	2012-15	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2012-15	122-1338	
Guide	Both	2012-15	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2012-15	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2012-15	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.

(Cont'd) GM / PASSENGER CAR**376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin P, LSA, ""ZL1
Supercharged""****192**

2012-15

V8 376 CID

GMC6.2-LSA_ZL1 (cont.)

BORE - 103.2mm/4.06""

PART		YEARS	PART NO.	NOTES
Guide	Both	2012-15	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2012-15	160-1623	2.098 Length,Conical
Lifter	Both	2012-15	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490 Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
		2012-15	VL559G	
Rocker Components	Int	2012-15	180-1336	Rocker Arm, Roller Pivot Assy.,NOTE: Offset, Use With Large Rectangular Intake Ports; Captive Bearing Design With High Grade Steel Trunion
	Exh	2012-15	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2012-15	190-1537	7.397 Length

376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin 7, LT1, ""AFM""**GMC6.2-LT1 193**

2014-21

V8 376 CID

BORE - 103.2mm/4.06""

PART		YEARS	PART NO.	NOTES
Keeper	Both	2014-20	121-1085	1 RD Bead Type
Stem Seal	Int	2014-19	122-1337	Positive Type,Viton Material,Top Hat Style Positive Type,Viton Material,Top Hat Style
	Exh	2014-19	122-1338	
Lifter	Both	2014-20	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2014-20	VL558E	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2014-20	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2014-20	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2014-20	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required
Push Rod	Both	2014-20	190-1555	7.850 Length

376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin 6, LT4, ""AFM Supercharged"" GMC6.2-LT4 194

2015-21

V8 376 CID

BORE - 103.2mm/4.06""

PART		YEARS	PART NO.	NOTES
Keeper	Both	2015-20	121-1085	1 RD Bead Type
Stem Seal	Int	2015-19	122-1337	Positive Type,Viton Material,Top Hat Style Positive Type,Viton Material,Top Hat Style
	Exh	2015-19	122-1338	
Lifter	Both	2015-20	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2015-20	VL558E	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2015-20	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2015-20	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.

GM / PASSENGER CAR (Cont'd)

194 376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin 6, LT4, ""AFM Supercharged"" GMC6.2-LT4
(cont.) 2015-21 V8 376 CID BORE - 103.2mm/4.06""

PART	YEARS	PART NO.	NOTES	
Lifter	Both	2015-20	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required
Push Rod	Both	2015-20	190-1555	7.850 Length

195 376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin 9, LT5, ""Supercharged"" GMC6.2-LT5
2019-19 V8 376 CID BORE - 103.2mm/4.06""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2019-19	121-1085	1 RD Bead Type
Stem Seal	Int	2019-19	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2019-19	122-1338	Positive Type,Viton Material,Top Hat Style
Lifter	Both	2019-19	VL115	Hydraulic Roller Type,Always Install Oil Hole Up To Valley On ""V"" Style Engines.
Push Rod	Both	2019-19	190-1555	7.850 Length

196 389 C.I., (6.4L), OHV, GAS, CARB, 16 Valve, ""Pontiac"" GMC389
1959-66 V8 389 CID BORE - 103.2mm/4.06""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1959-63	SB1937-1	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D., ¹ / ₄ Depth,W/ 1.881 Valve Head Dia.
		1964-66	SB2000-1	2.000 O.D.,1 ³ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material,W/ 1.920 Valve Head Dia.
	Exh	1959-63	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.600 Valve Head Dia.
		1964-66	SB1750-2	1 ³ / ₄ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.640 Valve Head Dia.
Valve	Int	1964-66	00958	1.920 Head Diameter,4 Bbl. or 3-2 Bbl. Carb., 1966 W/ 10.5:1 or 10.75:1 C/R
	Exh	1964-66	01072	1.640 Head Diameter,4 Bbl. or 3-2 Bbl. Carb., 1966 W/ 10.5:1 or 10.75:1 C/R
Keeper	Both	1964-66	121-1003	1 SQ Bead Type
Stem Seal	Both	1959-66	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
Guide	Int	1959-60	140-5612	0.3440 I.D.,2.875 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1959-60	140-9612	0.3440 I.D.,2.875 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
		1959-66	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1959-66	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
		1959-60	140-6105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
	Exh	1959-60	140-9105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9105U)
		1959-66	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
		1959-66	140-7459	0.3430 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1959-66	140-9459	0.3430 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
		1959-66	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)

(Cont'd) GM / PASSENGER CAR**389 C.I., (6.4L), OHV, GAS, CARB, 16 Valve, ""Pontiac""**
1959-66 V8 389 CID**GMC389 196**
BORE - 103.2mm/4.06"" (cont.)

PART		YEARS	PART NO.	NOTES
Spring	Both	1959-64	160-1118	1.980 Length,Outer
		1959-64	160-1119	1.760 Length,Inner, 0.963 O.D.
		1965-66	160-1136	1.760 Length,Inner, 1.060 O.D.
		1965-66	160-1137	1.940 Length,Outer
Lifter	Both	1959-66	VL49	Hydraulic Type,Exc.Hi-Perf.
Rocker Components	Both	1959-64	181-1044	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 3/8"" Nut,W/O Oil Feed Hole
		1959-66	183-1021	Grooved Ball, 7/16
		1959-66	184-1038	Nut, 3/8
Push Rod	Both	1959-60	192-1229	9.136 Length,- 60 U/S (192-1229U60) Available
		1961-66	190-1433	8.686 Length>Note: (Hardened); +60 O/S (190-1433+60) Available

390 C.I., (6.4L), OHV, GAS, CARB, 16 Valve, ""Cadillac""
1959-63 V8 390 CID**GMC390 197**
BORE - 101.6mm/4.00""

PART		YEARS	PART NO.	NOTES
Guide	Both	1959-63	140-1745	0.3445 I.D.,2.266 Length,0.5636 O.D.
Spring	Both	1959-63	160-1121	2.250 Length
Lifter	Both	1959-63	VL5	Hydraulic Type

394 C.I., (6.5L), OHV, GAS, CARB, 16 Valve, ""Oldsmobile""
1959-64 V8 394 CID**OLDS394 198**
BORE - 104.8mm/4.13""

PART		YEARS	PART NO.	NOTES
Guide	Int	1959-64	140-1821	0.3450 I.D.,2.374 Length,0.6578 O.D.
		1959-64	140-1829	0.4050 I.D.,4.375 Length,0.7520 O.D.
	Exh	1959-64	140-1878	0.3973 I.D.,2.375 Length,0.6580 O.D.

396 C.I., (6.5L), OHV, GAS, CARB, 16 Valve, ""Standard""
1965-69 V8 396 CID**396STD 199**
BORE - 104.3mm/4.09""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1965-69	SB2250-1	2 1/4 O.D., 1 15/16 I.D., 3/16 Depth,Cast Iron Cylinder Head
	Exh	1965-69	SB1812-4	
Valve	Int	1965-69	01107	2.065 Head Diameter,+15 O/S Stem Available
	Exh	1965-69	01106	1.720 Head Diameter,+15 O/S Stem Available
Keeper	Both	1965-69	121-1007	1 SQ Bead Type
Stem Seal	Both	1965-69	122-1031	Positive Type,Poly Material,2-Ring Style
		1965-69	122-1045	Umbrella Type,Poly Material,Umbrella Style,For Single Spring
Guide	Exh	1965-69	140-1972	0.3740 I.D.,2.630 Length,0.6203 O.D.,Cast Iron Heads, Use Caution When Removing Stepped O.D.
	Both	1965-69	140-1973	0.3735 I.D.,2.420 Length,0.6255 O.D.,Cast Iron & Aluminum Heads, Use Caution When Removing Stepped O.D. Exc. 1965-69 Exh. Cast Iron Heads
Spring	Both	1965-69	160-1003	2.120 Length,Dual Spring
		1965-69	160-1139	2.215 Length,W/ Damper,Single Spring
Lifter	Both	1965-69	VL37	Hydraulic Type
		1965-69	VL63	Mechanical High Performance Type
Rocker Components	Both	1965-69	180-1229	Rocker Arm
		1965-69	181-1014	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 7/16 Nut,High Perf.

GM / PASSENGER CAR (Cont'd)

199 396 C.I., (6.5L), OHV, GAS, CARB, 16 Valve, ""Standard""
(cont.) 1965-69 V8 396 CID

396STD

BORE - 104.3mm/4.09""

PART		YEARS	PART NO.	NOTES
Rocker Components	Both	1965-69	181-1048	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 7/16 Nut, High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More
		1965-69	183-1026	Grooved Ball, 7/16
		1965-69	184-1020	Stud
		1965-69	184-1040	Nut, 7/16
Push Rod	Int	1965-69	192-1339	8.230 Length, 0.312 Rod Dia.
		1965-69	192-1504	8.280 Length, 2nd Design, 0.312 Rod Dia.
	Exh	1965-69	192-1338	9.200 Length, 0.312 Rod Dia.
		1965-69	192-1503	9.252 Length, 2nd Design, 0.312 Rod Dia.
Head Bolt Set		1965-69	220-1107	Torque To Yield, Services Engine
Head Saver Shim		1965-69	230-2029	New Hgt. - Min. Hgt. N/A

200 396 C.I., (6.5L), OHV, GAS, CARB, 16 Valve ""Special HP""
1965-69 V8 396 CID

396SHP

BORE - 104.3mm/4.09""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1965-69	SB2250-1	2 1/4 O.D., 1 15/16 I.D., 3/16 Depth
	Exh	1965-69	SB1937-17	1 15/16 O.D., 1 11/16 I.D., 7/32 Depth
Valve	Int	1965-69	01164	2.190 Head Diameter
	Exh	1965-69	01131	1.875 Head Diameter
Keeper	Both	1965-69	121-1007	1 SQ Bead Type
Stem Seal	Both	1965-69	122-1031	Positive Type, Poly Material, 2-Ring Style
Guide	Exh	1965-69	140-1972	0.3740 I.D., 2.630 Length, 0.6203 O.D., Cast Iron Heads, Use Caution When Removing Stepped O.D.
	Both	1965-69	140-1973	0.3735 I.D., 2.420 Length, 0.6255 O.D., Cast Iron & Aluminum Heads, Use Caution When Removing Stepped O.D. Exc. 1965-70 Exh. Cast Iron Heads
Spring	Both	1965-69	160-1003	2.120 Length, Dual Spring
Lifter	Both	1965-69	VL63	Mechanical High Performance Type
Rocker Components	Both	1965-69	180-1229	Rocker Arm
		1965-69	181-1014	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 7/16 Nut, High Perf.
		1965-69	181-1048	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 7/16 Nut, High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More
		1965-69	183-1026	Grooved Ball, 7/16
		1965-69	184-1020	Stud
1965-69	184-1040	Nut, 7/16		
Push Rod	Int	1965-69	192-1337	8.280 Length, First Design, 0.375 Dia.
	Exh	1965-69	192-1336	9.252 Length, First Design, 0.375 Dia.
Head Bolt Set		1965-69	220-1107	Torque To Yield, Services Engine
Head Saver Shim		1965-69	230-2029	New Hgt. - Min. Hgt. N/A

201 396 C.I., (6.5L), OHV, GAS, CARB, 16 Valve, ""Big Block""
1970-72 V8 396 CID

396BIG

BORE - 104.70mm/4.125""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1970-72	SB2250-1	2 1/4 O.D., 1 15/16 I.D., 3/16 Depth, Exc. Aluminum Cylinder Head 1 13/16 O.D., 1 9/16 I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, Exc. Aluminum Cylinder Head
	Exh	1970-72	SB1812-4	
Valve	Int	1970-72	01107	2.065 Head Diameter, 4 Bbl. Carb., +15 O/S Stem Available

(Cont'd) **GM / PASSENGER CAR**

396 C.I., (6.5L), OHV, GAS, CARB, 16 Valve, ""Big Block""
1970-72 V8 396 CID

396BIG 201
BORE - 104.70mm/4.125"" (cont.)

PART		YEARS	PART NO.	NOTES
Valve	Exh	1970-72	01106	1.720 Head Diameter,4 Bbl. Carb., +15 O/S Stem Available
Keeper	Both	1970-72	121-1007	1 SQ Bead Type
Stem Seal	Both	1970-72	122-1031	Positive Type,Poly Material,2-Ring Style
		1970-72	122-1045	Umbrella Type,Poly Material,Umbrella Style,For Single Spring
Guide	Int	1970-72	140-1973	0.3735 I.D.,2.420 Length,0.6255 O.D.,Cast Iron & Aluminum Heads, Exc. 1970-72 Exh. Cast Iron Head
	Exh	1970-72	140-1972	0.3740 I.D.,2.630 Length,0.6203 O.D.,Cast Iron Heads, Use Caution When Removing Stepped O.D.
Spring	Both	1970-70	160-1003	2.120 Length,Dual Spring,To Early 1970,
		1971-72	160-1139	2.215 Length,W/ Damper,From Late 1971, Single Spring
Lifter	Both	1970-72	VL37	Hydraulic Type
Rocker Components	Both	1970-72	180-1229	Rocker Arm
		1970-72	181-1014	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 7/16 Nut,High Perf.
		1970-72	181-1048	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 7/16 Nut,High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More
		1970-72	183-1026	Grooved Ball, 7/16
		1970-72	184-1040	Nut, 7/16
Push Rod	Int	1970-72	192-1337	8.280 Length,First Design, 0.375 Rod Dia.; NOTE: SHP
		1970-72	192-1339	8.230 Length,2nd Design, 0.312 Rod Dia.
		1970-72	192-1504	8.280 Length,2nd Design, 0.312 Rod Dia.
	Exh	1970-72	192-1336	9.252 Length,First Design, 0.375 Rod Dia.; NOTE: SHP
		1970-72	192-1338	9.200 Length,2nd Design, 0.312 Rod Dia.
		1970-72	192-1503	9.252 Length,2nd Design, 0.312 Rod Dia.

400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, ""Oldsmobile HP""
1965-69 V8 400 CID

400OLDS4 202
BORE - 101.6mm/4.00

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1965-69	SB2125-2	2 1/8 O.D.,1 7/8 I.D.,1/4 Depth,W/ 1.995 Valve Head Dia.
		1965-69	SB2250-1	2 1/4 O.D.,1 15/16 I.D.,3/16 Depth,W/ 2.072 Valve Head Dia.
	Exh	1965-69	SB1750-2	1 3/4 O.D.,1 1/2 I.D.,7/32 Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.624 Valve Head Dia.
Valve	Int	1966-69	01002	2.072 Head Diameter,Includes 1968-69 4 Bbl. Carb.
		1968-69	01457	1.995 Head Diameter,2 Bbl. Carb.
	Exh	1966-69	00974	1.624 Head Diameter
Keeper	Both	1966-69	121-1003	1 SQ Bead Type
Guide	Both	1965-69	140-6873	0.3450 I.D.,2.125 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1965-69	140-9873	0.3450 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1965-69	160-1147	1.960 Length,W/ Damper
Lifter	Both	1965-69	VL49	Hydraulic Type,Exc.Hi-Perf.
Rocker Components	Both	1965-69	181-1057	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
		1965-69	183-1027	Fulcrum, Long
		1965-69	183-1028	Bridge,When Replacing, Fulcrum # 183-1027 Must Also Be Used
Push Rod	Both	1965-65	190-1429	9.594 Length,From Eng. Code # 502A,B,E & F07(W/ Stamped Steel Rocker Arms)
		1968-69	190-1384	9.547 Length

GM / PASSENGER CAR (Cont'd)

203 400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, ""Buick""
1965-69 V8 400 CID

GMC400
BORE - 102.6mm/4.04""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1965-66	SB2000-1	2.000 O.D., 1 ³ / ₄ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.875 Valve Head Dia.
		1967-69	SB2125-2	2 ¹ / ₈ O.D., 1 ⁷ / ₈ I.D., ¹ / ₄ Depth, W/ 2.000 Valve Head Dia.
	Exh	1965-66	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.500 Valve Head Dia.
		1967-69	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.625 Valve Head Dia.
Valve	Int	1967-69	01105	2.000 Head Diameter
	Exh	1967-69	01189	1.625 Head Diameter
Keeper	Both	1967-69	121-1002	No Bead Bead Type
Stem Seal	Both	1965-66	122-1011	Positive Type, Tef/Rub Material, 1-Ring Style, Machine Guide to .500 O.D.
Guide	Int	1965-66	140-1937	0.3750 I.D., 2.563 Length, 0.6270 O.D.
		1967-69	140-6113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1967-69	140-9113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	1965-66	140-1733	0.3745 I.D., 2.750 Length, 0.6265 O.D.
		1967-69	140-6114	0.3750 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1967-69	140-9114	0.3750 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1965-66	160-1130	2.070 Length, Outer
Lifter	Both	1967-69	VL5	Hydraulic Type
Push Rod	Both	1965-66	190-1349	8.723 Length
		1967-69	190-1328	9.355 Length

204 400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin N, P, R, S, T, X, Y, Z,
""Pontiac""

1967-79 V8 400 CID

400PON
BORE - 104.8mm/4.13""

PART	YEARS	PART NO.	NOTES			
Valve Seat Insert	Int	1967-67	SB2000-1	2.000 O.D., 1 ³ / ₄ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.920 Valve Head Dia.		
		1967-79	SB2125-2	2 ¹ / ₈ O.D., 1 ⁷ / ₈ I.D., ¹ / ₄ Depth, W/ 2.110 Valve Head Dia.		
	Exh	1968-79	SB2125-1	2 ¹ / ₈ O.D., 1 ¹³ / ₁₆ I.D., ¹ / ₄ Depth, W/ 1.960 Valve Head Dia.		
		1967-79	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.660 Valve Head Dia.		
		1967-79	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ⁹ / ₁₆ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.770 Valve Head Dia.		
Valve	Int	1968-70	01098	2.110 Head Diameter, 5.098 Overall Length, 4 Bbl. Carb		
		1970-74	01296	1.960 Head Diameter, 4.980 Overall Length, 2 Bbl. Carb.		
		1971-79	01161	2.110 Head Diameter, 4.979 Overall Length, 1971-74 4 Bbl. Carb., 1975-79 All		
	Exh	1968-70	01097	1.770 Head Diameter, 5.093 Overall Length, 4 Bbl. Carb.		
		1968-72	01093	1.660 Head Diameter, 4.984 Overall Length, 2 Bbl. Carb.		
		1971-73	01160	1.770 Head Diameter, 4.975 Overall Length, 1971-72 4 Bbl. Carb., 1973 WH, YH, YJ, & YW Eng.		
		1973-79	01245	1.660 Head Diameter, 4.959 Overall Length, Exc. WH, YJ, YS, & YW Engines		
		Keeper	Both	1968-79	121-1003	1 SQ Bead Type
		Stem Seal	Both	1967-79	122-1043	O-Ring Type, Nitrile Material, O-Ring Style

(Cont'd) **GM / PASSENGER CAR**

**400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin N, P, R, S, T, X, Y, Z,
"Pontiac"
1967-79**

204
400PON (cont.)

V8 400 CID

BORE - 104.8mm/4.13"

PART	YEARS	PART NO.	NOTES	
Guide	Both	1967-79	140-6523	0.3440 I.D.,3.063 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1967-79	140-9523	0.3440 I.D.,3.063 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9523H)
Spring	Both	1967-68	160-1156	2.112 Length,Inner W/ Ram Air II
		1967-68	160-1157	2.100 Length,Outer W/ Ram Air II
		1967-79	160-1136	1.760 Length,Inner, W/ Auto. Trans., Exc. Ram Air
		1967-79	160-1137	1.940 Length,Outer, 1967-79 W/ Automatic Trans., 1967-70 W/ Manual Trans., Exc. Ram Air
Lifter	Both	1967-79	VL49	Hydraulic Type,Exc.Hi-Perf.
Rocker Components	Both	1967-79	184-1038	Nut, 3/8
		1968-79	181-1020	Rocker Arm Kit, Includes (1) Rocker Arm (1) Grooved Ball, (1) 3/8 Nut,Exc. Ram Air
		1969-70	181-1025	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 3/8 Nut,W/ Ram Air IV
		1969-70	183-1021	Grooved Ball, 7/16,W/ Ram Air IV
Push Rod	Both	1967-67	190-1438	8.245 Length
		1968-79	192-1229	9.136 Length,- 60 U/S (192-1229U60) Available

**400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, "Oldsmobile Standard"
1968-69**

400OLDS3.8 **205**

V8 400 CID

BORE - 98.3mm/3.87"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1968-69	SB2125-2	2 1/8 O.D.,1 7/8 I.D.,1/4 Depth,W/ 1.995 Valve Head Dia.
		1968-69	SB2250-1	2 1/4 O.D.,1 15/16 I.D.,3/16 Depth,W/ 2.072 Valve Head Dia.
		1968-69	SB1750-2	1 3/4 O.D.,1 1/2 I.D.,7/32 Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.624 Valve Head Dia.
Valve	Int	1968-69	01002	2.072 Head Diameter,4 Bbl. Carb.
		1968-69	01457	1.995 Head Diameter,2 Bbl. Carb.
	Exh	1968-69	00974	1.624 Head Diameter
Keeper	Both	1968-69	121-1003	1 SQ Bead Type
Stem Seal	Both	1968-69	122-1041	Umbrella Type,Poly Material,Umbrella Style
Guide	Both	1968-69	140-9873	0.3450 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1968-69	160-1147	1.960 Length,W/ Damper
Lifter	Both	1968-69	VL49	Hydraulic Type,Exc.Hi-Perf.
Rocker Components	Both	1968-69	181-1057	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
		1968-69	183-1027	Fulcrum, Long
		1968-69	183-1028	Bridge,When Replacing, Fulcrum # 183-1027 Must Also Be Used
Push Rod	Both	1968-69	190-1384	9.547 Length
		1968-69	190-1429	9.594 Length,From Eng. Code # 502A,B,E & F07(W/ Stamped Steel Rocker Arms)

**400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin R, U, "Chevrolet"
1970-76**

400RU **206**

V8 400 CID

BORE - 104.8mm/4.13"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1970-76	SB2125-1	2 1/8 O.D.,1 13/16 I.D.,1/4 Depth

GM / PASSENGER CAR (Cont'd)

206 400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin R, U, ""Chevrolet"" 400RU
 (cont.) 1970-76 V8 400 CID BORE - 104.8mm/4.13""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1970-70	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, 1970 W/ 1.600 Valve Head Dia.
		1970-76	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.500 Valve Head Dia.
Valve	Int	1970-76	00696	1.940 Head Diameter, Except Police
	Exh	1970-70	00919	1.600 Head Diameter
		1970-76	00400	1.500 Head Diameter, +3 & +15 O/S Stem Available
		1970-76	01192	1.500 Head Diameter, Opt. Chrome Plated, +3 & +15 O/S Stem Available
		1970-76	01206S	1.500 Head Diameter, Stellite Face, Optional Material & Chrome Plated, +15 O/S Stem Available
Keeper	Both	1970-76	121-1003	1 SQ Bead Type
Stem Seal	Both	1970-76	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1970-76	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1970-76	122-1048	Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss
		1970-76	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ ¹¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		1970-76	122-1270	Umbrella Type, Viton Material, Umbrella Style
Guide	Int	1970-76	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
	Exh	1970-76	140-7946	0.3430 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1970-76	140-9946	0.3430 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Exh	1973-76	160-1009	1.910 Length, W/ Damper
	Both	1970-76	160-1144	2.048 Length, W/ Damper, Exc. 1973-76 Exh.
		1970-76	160-1144HP	2.023 Length, W/ Damper, Hi-Perf., Exc. 1973-76 Exh.
		1970-76	160-1407	2.140 Length, W/ Damper, Optional Hi-Perf.
Rotator	Exh	1973-76	161-1012	
Lifter	Both	1970-76	VL117RH	Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train.
		1970-76	VL73	Hydraulic Type
Rocker Components	Both	1970-76	180-1228	Rocker Arm
		1970-76	180-1239	Rocker Arm, Stamped, Long Slot
		1970-76	180-1283	Rocker Arm, Rail Type, Optional
		1970-76	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut
		1970-76	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) ³ / ₈ Nut, High Perf., W/ 1.5:1 Ratio
		1970-76	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) ³ / ₈ Nut, Optional
		1970-76	183-1017	Smooth Ball, ³ / ₈
		1970-76	183-1032	Grooved Ball, ³ / ₈
1970-76	184-1038	Nut, ³ / ₈		
Push Rod	Both	1970-76	192-1331	7.793 Length
Head Bolt Set		1970-76	220-1018	This bolt is NOT Torque to Yield, 2 Required

(Cont'd) GM / PASSENGER CAR**401 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, ""Buick""**
1959-66 V8 401 CID**401BUK 207**
BORE - 106.4mm/4.19""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1959-66	SB2000-1	2.000 O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth, Also Available In Non-Magnetic (N) Material
	Exh	1959-66	SB1562-1	1 $\frac{9}{16}$ O.D., 1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Keeper	Both	1959-66	121-1002	No Bead Bead Type
Stem Seal	Both	1959-66	122-1011	Positive Type, Tef/Rub Material, 1-Ring Style, Machine Guide to .500 O.D.
Guide	Int	1966-66	140-1937	0.3750 I.D., 2.563 Length, 0.6270 O.D.
	Both	1959-66	140-1733	0.3745 I.D., 2.750 Length, 0.6265 O.D., NOTE: Exhaust Only 1966
Spring	Both	1959-66	160-1130	2.070 Length, Outer
Push Rod	Both	1959-66	190-1349	8.723 Length

402 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin S, U, ""Chevrolet""
1970-72 V8 402 CID**402SU 208**
BORE - 104.8mm/4.13""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1970-72	SB2250-1	2 $\frac{1}{4}$ O.D., 1 $\frac{15}{16}$ I.D., $\frac{3}{16}$ Depth, Exc. Aluminum Cylinder Head
	Exh	1970-72	SB1812-4	1 $\frac{3}{16}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, Exc. Aluminum Cylinder Head
Valve	Int	1970-72	01107	2.065 Head Diameter, +15 O/S Stem Available
	Exh	1970-72	01106	1.720 Head Diameter, +15 O/S Stem Available
Keeper	Both	1970-72	121-1007	1 SQ Bead Type
Stem Seal	Both	1970-72	122-1031	Positive Type, Poly Material, 2-Ring Style
		1970-72	122-1045	Umbrella Type, Poly Material, Umbrella Style
Guide	Exh	1970-72	140-1972	0.3740 I.D., 2.630 Length, 0.6203 O.D., Cast Iron Heads, Use Caution When Removing Stepped O.D.
	Both	1970-72	140-1973	0.3735 I.D., 2.420 Length, 0.6255 O.D., Cast Iron & Aluminum Heads, Exc. 1970-72 Exh.
Spring	Both	1970-70	160-1003	2.120 Length, Dual Spring, To Early 1970
		1971-72	160-1139	2.215 Length, W/ Damper, Single Spring, From Late 1971
Lifter	Both	1970-72	VL37	Hydraulic Type, Exc. Hi-Perf.
		1970-72	VL63	Mechanical High Performance Type
Rocker Components	Both	1970-72	180-1229	Rocker Arm
		1970-72	181-1014	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) $\frac{7}{16}$ Nut, High Perf.
		1970-72	183-1026	Grooved Ball, $\frac{7}{16}$
		1970-72	184-1040	Nut, $\frac{7}{16}$
Push Rod	Int	1970-72	192-1337	8.280 Length, First Design, 0.375 Rod Dia.
		1970-72	192-1339	8.230 Length, 0.312 Rod Dia.
		1970-72	192-1504	8.280 Length, 2nd Design, 0.312 Rod Dia.
	Exh	1970-72	192-1336	9.252 Length, First Design, 0.375 Rod Dia.
		1970-72	192-1338	9.200 Length, 0.312 Rod Dia.
		1970-72	192-1503	9.252 Length, 2nd Design, 0.312 Rod Dia.
Head Bolt Set		1970-72	220-1107	Torque To Yield, Services Engine
Head Saver Shim		1970-72	230-2029	New Hgt. - Min. Hgt. N/A

GM / PASSENGER CAR (Cont'd)

209 403 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin K, ""Oldsmobile"" GMC403
 1977-79 V8 403 CID BORE - 110.5mm/4.35""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1977-79	SB2125-31	2 ¹ / ₈ O.D., 1 ¹³ / ₁₆ I.D., ⁷ / ₃₂ Depth
	Exh	1977-79	SB1562-9	1 ⁹ / ₁₆ O.D., 1 ¹⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1977-79	01457	1.995 Head Diameter
	Exh	1977-79	01354	1.502 Head Diameter
Keeper	Both	1977-79	121-1003	1 SQ Bead Type
Stem Seal	Both	1977-79	122-1075	Positive Type, Viton Material, Ring & Band Style
Guide	Both	1977-79	140-6873	0.3450 I.D., 2.125 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1977-79	140-9873	0.3450 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1977-79	160-1006	1.960 Length
Lifter	Both	1977-79	VL49	Hydraulic Type, Exc. Hi-Perf.
Rocker Components	Both	1977-79	181-1057	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
		1977-79	183-1027	Fulcrum, Long
		1977-79	183-1028	Bridge, When Replacing, Fulcrum # 183-1027 Must Also Be Used
Push Rod	Both	1977-79	190-1411	8.234 Length

210 409 C.I., (6.7L), OHV, GAS, CARB, 16 Valve, ""Chevrolet"" GMC409
 1961-65 V8 409 CID BORE - 109.5mm/4.31""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1961-65	SB2250-1	2 ¹ / ₄ O.D., 1 ¹⁵ / ₁₆ I.D., ⁹ / ₁₆ Depth
	Exh	1961-65	SB1812-4	1 ¹³ / ₁₆ O.D., 1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Stem Seal	Both	1961-65	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1961-65	122-1045	Umbrella Type, Poly Material, Umbrella Style
		1961-65	122-1048	Positive Type, Poly Material, 2-Ring Style, W/ .341 Stem Dia. & Use W/ Factory Guide Boss
Guide	Int	1961-65	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1961-65	140-6110	0.3740 I.D., 2.625 Length, 0.5020 O.D., Plain I.D. Conversion Guide
	Exh	1961-65	140-7260	0.3730 I.D., 2.875 Length, 0.5020 O.D., For Use W/ Eng. Using Chrome Plated Valve
		1961-65	140-9260	0.3731 I.D., 2.874 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1961-65	160-1117	2.030 Length
Lifter	Both	1961-65	VL37	Hydraulic Type
Rocker Components	Both	1961-65	183-1024	Smooth Ball, ³ / ₈
		1961-65	184-1038	Nut, ³ / ₈
Push Rod	Int	1961-65	190-1269	8.778 Length, Exc. Hi-Perf. & 4 Bbl.
	Exh	1961-65	192-1229	9.136 Length, - 60 U/S (192-1229U60) Available

211 421 C.I., (6.9L), OHV, GAS, CARB, 16 Valve, ""Pontiac"" GMC421
 1963-64 V8 421 CID BORE - 104mm/4.09""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1963-64	SB2000-1	2.000 O.D., 1 ³ / ₄ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material
	Exh	1963-64	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

(Cont'd) **GM / PASSENGER CAR**

421 C.I., (6.9L), OHV, GAS, CARB, 16 Valve, ""Pontiac""
1963-64 V8 421 CID

GMC421 211
BORE - 104mm/4.09"" (cont.)

PART		YEARS	PART NO.	NOTES
Valve	Int	1963-64	00958	1.920 Head Diameter
	Exh	1963-64	01072	1.640 Head Diameter
Keeper	Both	1963-64	121-1003	1 SQ Bead Type
Stem Seal	Both	1963-64	122-1043	O-Ring Type,Nitrile Material,O-Ring Style Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
		1963-64	122-1048	
Guide	Int	1963-64	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1963-64	140-9607		0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1963-64	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
		1963-64	140-9606		0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
Spring	Both	1963-64	160-1118	1.980 Length,Outer Exc. 1963 W/ 3 x 2 Bbl. Carbs. 1.760 Length,Inner, Exc. 1963 W/ 3 x 2 Bbl. Carbs.
		1963-64	160-1119	
Lifter	Both	1963-64	VL49	Hydraulic Type,Exc. Hi-Perf.
Rocker Components	Both	1963-64	183-1021	Grooved Ball, 7/16 Nut, 3/8
		1963-64	184-1038	
Push Rod	Both	1963-64	190-1433	8.686 Length>Note: (Hardened); +60 O/S (190-1433+60) Available,W/O Guide PlatesW/O Guide Plates

425 C.I., (7.0L), OHV, GAS, CARB, 16 Valve, ""Oldsmobile""
1965-67 V8 425 CID

425OLDS 212
BORE - 104.8mm/4.13""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1965-67	SB2125-2	2 1/8 O.D., 1 7/8 I.D., 1/4 Depth,W/ 1.995 Valve Head Dia. 2 1/4 O.D., 1 15/16 I.D., 3/16 Depth,W/ 2.072 Valve Head Dia.
		1965-67	SB2250-1	
	Exh	1965-67	SB1750-2	1 3/4 O.D., 1 1/2 I.D., 7/32 Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1965-67	01457	1.995 Head Diameter,SHP & High Torque & Irrigation 2.072 Head Diameter,Toronado
		1966-67	01002	
	Exh	1965-67	00974	1.624 Head Diameter,Toronado, SHP & High Torque & Irrigation
Keeper	Both	1966-67	121-1003	1 SQ Bead Type
Stem Seal	Both	1965-67	122-1043	O-Ring Type,Nitrile Material,O-Ring Style Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
		1965-67	122-1048	
Guide	Both	1965-67	140-6873	0.3450 I.D.,2.125 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1965-67	140-9873		0.3450 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1965-67	160-1147	1.960 Length,W/ Damper
Lifter	Both	1965-67	VL49	Hydraulic Type,Exc.Hi-Perf.
Rocker Components	Both	1965-67	181-1057	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge Fulcrum, Long Bridge,When Replacing, Fulcrum # 183-1027 Must Also Be Used
		1965-67	183-1027	
		1965-67	183-1028	
Push Rod	Both	1965-66	190-1429	9.594 Length,From Eng. Code # 502A,B,E & F07(W/ Stamped Steel Rocker Arms)
		1967-67	190-1440		9.622 Length

GM / PASSENGER CAR (Cont'd)

213 425 C.I., (7.0L), OHV, GAS, CARB, FI, 16 Valve, Vin S, T, ""Cadillac"" 425CAD
 1977-79 V8 425 CID BORE - 103.7mm/4.08""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1977-79	SB2125-2	2 ¹ / ₈ O.D., 1 ⁷ / ₈ I.D., 1/4 Depth
	Exh	1977-79	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1977-79	01293	2.000 Head Diameter
	Exh	1977-79	01292	1.625 Head Diameter
Keeper	Both	1977-79	121-1003	1 SQ Bead Type
Stem Seal	Both	1977-79	122-1047	Positive Type, Poly Material, 2-Ring Style
Guide	Both	1977-79	140-6523	0.3440 I.D., 3.063 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1977-79	140-9523	0.3440 I.D., 3.063 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9523H)
Spring	Both	1977-79	160-1121	2.250 Length
Lifter	Both	1977-79	VL117RH	Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train.
		1977-79	VL73	Hydraulic Type
Push Rod	Both	1977-79	190-1385	10.200 Length

214 427 C.I., (7.0L), OHV, GAS, CARB, 16 Valve, ""Chevrolet Special HP"" 427SHP
 1966-69 V8 427 CID BORE - 108mm/4.25""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1966-69	SB2312-9	2 ⁵ / ₁₆ O.D., 2.000 I.D., 1/4 Depth
	Exh	1966-69	SB2000-1	2.000 O.D., 1 ³ / ₄ I.D., 7/32 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1966-69	01164	2.190 Head Diameter
	Exh	1966-69	01131	1.875 Head Diameter
Keeper	Both	1966-69	121-1007	1 SQ Bead Type
Stem Seal	Both	1966-69	122-1031	Positive Type, Poly Material, 2-Ring Style
		1966-69	122-1287	Umbrella Type, Nylon/Viton Material, Viton Insert Style
Guide	Exh	1966-69	140-1972	0.3740 I.D., 2.630 Length, 0.6203 O.D., Cast Iron Heads, Use Caution When Removing Stepped O.D.
	Both	1966-69	140-1973	0.3735 I.D., 2.420 Length, 0.6255 O.D., Cast Iron & Aluminum Heads, Use Caution When Removing Stepped O.D. Exc. 1966-69 Exh. Cast Iron Heads
Spring	Both	1966-68	160-1138	2.143 Length, W/ Damper
		1969-69	160-1003	2.120 Length, Dual Spring, From Early 1969
		1969-69	160-1139	2.215 Length, W/ Damper, From Late 1969
Lifter	Both	1966-69	VL63	Mechanical High Performance Type
Rocker Components	Both	1966-69	180-1229	Rocker Arm
		1966-69	181-1014	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 7/16 Nut, High Perf.
		1966-69	181-1048	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 7/16 Nut, High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More
		1966-69	183-1026	Grooved Ball, 7/16
Push Rod	Int	1966-69	192-1337	8.280 Length, First Design, 0.375 Rod Dia.
	Exh	1966-69	192-1336	9.252 Length, First Design, 0.375 Rod Dia.
Head Bolt Set		1966-69	220-1107	Torque To Yield, Services Engine
Head Saver Shim		1966-69	230-2029	New Hgt. - Min. Hgt. N/A

(Cont'd) GM / PASSENGER CAR**427 C.I., (7.0L), OHV, GAS, CARB, 16 Valve**
1966-69 V8 427 CID**427STD 215****BORE - 108mm/4.25"**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1966-69	SB2250-1	2¼ O.D., 1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth, Cast Iron Cylinder Head 1 ¹³ / ₁₆ O.D., 1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, Cast Iron Cylinder Head
	Exh	1966-69	SB1812-4	
Valve	Int	1966-69	01107	2.065 Head Diameter, +15 O/S Stem Available 1.720 Head Diameter, +15 O/S Stem Available
	Exh	1966-69	01106	
Keeper	Both	1966-69	121-1007	1 SQ Bead Type
Stem Seal	Both	1966-69	122-1031	Positive Type, Poly Material, 2-Ring Style Umbrella Type, Poly Material, Umbrella Style
		1966-69	122-1045	
Guide	Int	1966-69	140-1973	0.3735 I.D., 2.420 Length, 0.6255 O.D., Cast Iron & Aluminum Heads, Use Caution When Removing Stepped O.D. Exc. 1966-69 Exh. Cast Iron Heads 0.3740 I.D., 2.630 Length, 0.6203 O.D., Cast Iron Heads, Use Caution When Removing Stepped O.D.
	Exh	1966-69	140-1972	
Spring	Both	1966-68	160-1138	2.143 Length, W/ Damper 2.120 Length, Dual Spring, Early 1969 2.215 Length, W/ Damper, From Late 1969
		1969-69	160-1003	
		1969-69	160-1139	
Lifter	Both	1966-69	VL37	Hydraulic Type, Exc. Special Hi-Perf. Mechanical High Performance Type
		1966-69	VL63	
Rocker Components	Both	1966-69	180-1229	Rocker Arm Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) ⁷ / ₁₆ Nut, High Perf. Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) ⁷ / ₁₆ Nut, High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More Grooved Ball, ⁷ / ₁₆ Nut, ⁷ / ₁₆
		1966-69	181-1014	
		1966-69	181-1048	
		1966-69	183-1026	
		1966-69	184-1040	
Push Rod	Int	1966-69	192-1339	8.230 Length, 0.312 Rod Dia. 8.280 Length, 0.312 Rod Dia. 9.200 Length, 0.312 Rod Dia. 9.252 Length, 0.312 Rod Dia.
		1966-69	192-1504	
	Exh	1966-69	192-1338	
		1966-69	192-1503	
Head Bolt Set		1966-69	220-1107	Torque To Yield, Services Engine
Head Saver Shim		1966-69	230-2029	New Hgt. - Min. Hgt. N/A

427 C.I., (7.0L), OHV, GAS, FI, 16 Valve, Vin E, LS7, ""Z06""
2006-15 V8 427 CID**GMC7.0-LS7 216****BORE - 104.8mm/4.13"**

PART		YEARS	PART NO.	NOTES
Keeper	Both	2006-15	121-1085	1 RD Bead Type
Stem Seal	Int	2006-15	122-1337	Positive Type, Viton Material, Top Hat Style Positive Type, Viton Material, Top Hat Style
	Exh	2006-15	122-1338	
Lifter	Both	2006-15	VL559	Hydraulic Roller Type, Oil Hole Is Positioned In Line With Roller Pin., Non-Active Fuel Management; OEM # 17122490 Non-AFM Lifter Guide Type, Non-AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
		2006-15	VL559G	

428 C.I., (7.0L), OHV, GAS, CARB, 16 Valve, ""Pontiac""
1967-69 V8 428 CID**GMC428 217****BORE - 104.7mm/4.12"**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1967-69	SB2125-1	2 ¹ / ₈ O.D., 1 ¹³ / ₁₆ I.D., ¹ / ₄ Depth, W/ 1.960 Valve Head Dia. 2 ¹ / ₈ O.D., 1 ⁷ / ₈ I.D., ¹ / ₄ Depth, W/ 2.110 Valve Head Dia.
		1968-69	SB2125-2	

GM / PASSENGER CAR (Cont'd)

217 428 C.I., (7.0L), OHV, GAS, CARB, 16 Valve, ""Pontiac""
 (cont.) 1967-69 V8 428 CID

GMC428

BORE - 104.7mm/4.12""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1967-67	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7 ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.660 Valve Head Dia.
		1967-69	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ⁹ / ₁₆ I.D., 1 ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.770 Valve Head Dia.
Valve	Int	1968-69	01098	2.110 Head Diameter
	Exh	1968-69	01097	1.770 Head Diameter, Except 1969 XE, XJ, YH & YL Engines
Keeper	Both	1968-69	121-1003	1 SQ Bead Type
Stem Seal	Both	1967-69	122-1048	Positive Type, Poly Material, 2-Ring Style, W/ .341 Stem Dia. & Use W/ Factory Guide Boss
Guide	Int	1967-69	140-9560	0.3440 I.D., 2.000 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	1967-69	140-5606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U)
		1967-69	140-9606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9606U)
Spring	Both	1967-69	160-1136	1.760 Length, Inner
		1967-69	160-1137	1.940 Length, Outer
Lifter	Both	1967-69	VL49	Hydraulic Type, Exc. Hi-Perf.
Rocker Components	Both	1967-69	181-1020	Rocker Arm Kit, Includes (1) Rocker Arm (1) Grooved Ball, (1) 3 ⁸ / ₈ Nut
		1967-69	184-1038	Nut, 3 ⁸ / ₈
Push Rod	Both	1967-69	192-1229	9.136 Length, - 60 U/S (192-1229U60) Available

218 429 C.I., (7.0L), OHV, GAS, CARB, 16 Valve, ""Cadillac""
 1964-67 V8 429 CID

429CAD

BORE - 104.8mm/4.13""

PART		YEARS	PART NO.	NOTES
Guide	Both	1964-67	140-1745	0.3445 I.D., 2.266 Length, 0.5636 O.D.
Spring	Both	1964-67	160-1121	2.250 Length

219 430 C.I., (7.0L), OHV, GAS, CARB, 16 Valve, ""Buick""
 1967-69 V8 430 CID

GMC430

BORE - 106.4mm/4.19""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1967-69	SB2125-2	2 ¹ / ₈ O.D., 1 ⁷ / ₈ I.D., 1 ¹ / ₄ Depth
	Exh	1967-69	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7 ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1967-69	01105	2.000 Head Diameter
	Exh	1967-69	01189	1.625 Head Diameter
Keeper	Both	1967-69	121-1002	No Bead Bead Type
Stem Seal	Both	1967-69	122-1031	Positive Type, Poly Material, 2-Ring Style
Guide	Int	1967-69	140-6113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1967-69	140-9113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	1967-69	140-6114	0.3750 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1967-69	140-9114	0.3750 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1967-69	160-1145	2.190 Length, W/ Damper
Lifter	Both	1967-69	VL5	Hydraulic Type
Push Rod	Both	1967-69	190-1328	9.355 Length

(Cont'd) **GM / PASSENGER CAR**

454 C.I., (7.4L), OHV, GAS, CARB, 16 Valve, Vin S, V, W, X, Y, Z
1970-76 V8 454 CID

454STD **220**
BORE - 108mm/4.25"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1970-76	SB2125-38	2 ¹ / ₈ O.D., 1 ¹³ / ₁₆ I.D., ³ / ₁₆ Depth 1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1970-76	SB1812-4	
Valve	Int	1970-76	01107	2.065 Head Diameter, +15 O/S Stem Available 1.720 Head Diameter, +15 O/S Stem Available
	Exh	1970-76	01106	
Keeper	Both	1970-76	121-1007	1 SQ Bead Type
Stem Seal	Both	1970-76	122-1031	Positive Type, Poly Material, 2-Ring Style Umbrella Type, Poly Material, Umbrella Style
		1970-76	122-1045	
Guide	Int	1970-76	140-9973	0.3735 I.D., 2.420 Length, 0.6255 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9973U), Must Pressure Test for Water Leak After Installation 0.3740 I.D., 2.630 Length, 0.6203 O.D., Spiral I.D. Conversion Guide, +3 O/S, -5 U/S I.D. Available (140-9972U)
	Exh	1970-76	140-9972	
Spring	Both	1970-70	160-1139	2.215 Length, W/ Damper 2.120 Length, Dual Spring 2.078 Length, W/ Damper, Single Spring 2.050 Length, W/ Damper
		1971-72	160-1003	
		1973-74	160-1011	
		1975-76	160-1141	
Rotator	Exh	1973-76	161-1013	
Lifter	Both	1970-76	VL37	Hydraulic Type
Rocker Components	Both	1970-76	180-1229	Rocker Arm Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) ⁷ / ₁₆ Nut, High Perf. Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) ⁷ / ₁₆ Nut, High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More Grooved Ball, ⁷ / ₁₆ Nut, ⁷ / ₁₆
		1970-76	181-1014	
		1970-76	181-1048	
		1970-76	183-1026	
1970-76	184-1040			
Push Rod	Int	1970-76	192-1339	8.230 Length, 0.312 Rod Dia. 8.280 Length, 0.312 Rod Dia. 9.200 Length, 0.312 Rod Dia. 9.252 Length, 0.312 Rod Dia.
		1970-76	192-1504	
	Exh	1970-76	192-1338	
		1970-76	192-1503	
Head Bolt Set		1970-76	220-1107	Torque To Yield, Services Engine
Head Saver Shim		1970-76	230-2029	New Hgt. - Min. Hgt. N/A

454 C.I., (7.4L), OHV, GAS, CARB, 16 Valve, ""Chevrolet Special HP""
1970-76 V8 454 CID

454SHP **221**
BORE - 108mm/4.25"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1970-76	SB2312-9	2 ⁵ / ₁₆ O.D., 2.000 I.D., ¹ / ₄ Depth 1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., ⁷ / ₃₂ Depth
	Exh	1970-76	SB1937-17	
Valve	Int	1970-76	01164	2.190 Head Diameter 1.875 Head Diameter
	Exh	1970-76	01131	
Keeper	Both	1970-76	121-1007	1 SQ Bead Type
Stem Seal	Both	1970-76	122-1045	Umbrella Type, Poly Material, Umbrella Style Positive Type, Poly Material, 2-Ring Style
		1970-76	122-1048	
Guide	Exh	1970-76	140-1972	0.3740 I.D., 2.630 Length, 0.6203 O.D., Cast Iron Heads, Use Caution When Removing Stepped O.D. 0.3735 I.D., 2.420 Length, 0.6255 O.D., Aluminum Heads Use Caution When Removing Stepped O.D.
	Both	1970-76	140-1973	
Spring	Both	1970-72	160-1003	2.120 Length, Dual Spring 2.078 Length, W/ Damper, Single Spring 2.050 Length, W/ Damper
		1973-74	160-1011	
		1975-76	160-1141	

GM / PASSENGER CAR (Cont'd)

221 454 C.I., (7.4L), OHV, GAS, CARB, 16 Valve, ""Chevrolet Special HP"" 454SHRP
 (cont.) 1970-76 V8 454 CID BORE - 108mm/4.25""

PART		YEARS	PART NO.	NOTES
Rotator	Exh	1973-76	161-1013	
Lifter	Both	1970-76 1970-76	VL37 VL63	Hydraulic Type Mechanical High Performance Type
Rocker Components	Both	1970-76	180-1229	Rocker Arm
		1970-76	181-1014	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 7/16 Nut, High Perf.
		1970-76	181-1048	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 7/16 Nut, High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More
		1970-76 1970-76	183-1026 184-1040	Grooved Ball, 7/16 Nut, 7/16
Push Rod	Int	1970-76	192-1337	8.280 Length, First Design, 0.375 Dia.
	Exh	1970-76	192-1336	9.252 Length, First Design, 0.375 Dia.
Head Bolt Set		1970-76	220-1107	Torque To Yield, Services Engine
Head Saver Shim		1970-76	230-2029	New Hgt. - Min. Hgt. N/A

222 455 C.I., (7.5L), OHV, GAS, CARB, 16 Valve, Vin R, S, T, ""Oldsmobile"" 455OLDS
 1968-76 V8 455 CID BORE - 105.4mm/4.15""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1968-76	SB2125-3	2 1/8 O.D., 1 15/16 I.D., 3/16 Depth, W/ 2.072 Valve Head Dia.
		1968-76	SB2125-34	2 1/8 O.D., 1 7/8 I.D., 7/32 Depth, W/ 1.995 Valve Head Dia.
	Exh	1968-76	SB1687-2	1 11/16 O.D., 1 7/16 I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1968-76	01002	2.072 Head Diameter, 30 Degree Seat
		1968-76	01457	1.995 Head Diameter, 45 Degree Seat
	Exh	1968-76	00974	1.624 Head Diameter, 45 Degree Seat
		1968-76	01210	1.684 Head Diameter, 30 Degree Seat
		1968-76	01324	1.622 Head Diameter, 30 Degree Seat
Keeper	Both	1968-76	121-1003	1 SQ Bead Type
Stem Seal	Both	1968-76	122-1048	Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss
Guide	Both	1968-76	140-6873	0.3450 I.D., 2.125 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1968-76	140-9873	0.3450 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1968-73	160-1147	1.960 Length, W/ Damper, 1968 All Exc. F85 W/O A1, Police & Toronado, 1969 F85 W/O A1 & All, Exc. F85 Hurst, 1970 F85 & Performance Eng. 1971 Toronado
		1968-76	160-1006	1.960 Length, W/O Damper, 1968-69 Exc. F-85 Toronado & Police, 1970 Exc. F-85 & Performance Eng., 1971 Exc. Toronado, 1972 Toronado, 1973 W/ Auto, 1974 All Exc. W/ 30, 1975-76 All
Lifter	Both	1968-76	VL49	Hydraulic Type, Exc. Hi-Perf.
Rocker Components	Both	1968-76	181-1057	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
		1968-76	183-1027	Fulcrum, Long
		1968-76	183-1028	Bridge, When Replacing, Fulcrum # 183-1027 Must Also Be Used
Push Rod	Both	1968-76	190-1384	9.547 Length

(Cont'd) **GM / PASSENGER CAR**

455 C.I., (7.5L), OHV, GAS, CARB, 16 Valve, Vin P, R, T, U, V, W, ""Buick"" 455BUK **223**
1970-76 V8 455 CID BORE - 109.5mm/4.31""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1970-76	SB2125-34 SB1750-3	2 ¹ / ₈ O.D., 1 ⁷ / ₈ I.D., ⁷ / ₃₂ Depth
	Exh	1970-76		1 ³ / ₄ O.D., 1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1970-76	01105 01189 01321	2.000 Head Diameter, Except 70-74 Gran Sport & All Stage 1
	Exh	1970-74		1.625 Head Diameter, Except Gran Sport & Stage 1
		1975-76		1.687 Head Diameter, Except Stage 1
Keeper	Both	1970-76	121-1002	No Bead Bead Type
Stem Seal	Both	1970-76	122-1031	Positive Type, Poly Material, 2-Ring Style
Guide	Int	1970-76	140-6113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1970-76	140-9113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	1970-76	140-6114	0.3750 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1970-76	140-9114	0.3750 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1970-70	160-1145	2.190 Length, W/ Damper, Exc. Stage 1
Lifter	Both	1970-76	VL117RH	Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train.
		1970-76	VL73	Hydraulic Type
Rocker Components	Both	1970-76	180-1040	Rocker Arm, Stamped Steel, R.H.
		1970-76	180-1041	Rocker Arm, Stamped Steel, L.H.
		1970-76	187-1014	Retainer
Push Rod	Both	1970-76	190-1421	9.378 Length

455 C.I., (7.5L), OHV, GAS, CARB, 16 Valve, ""Pontiac"" 455PON **224**
1970-76 V8 455 CID BORE - 105.4mm/4.15""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1970-76	SB2125-34 SB1750-2 SB1812-1	2 ¹ / ₈ O.D., 1 ⁷ / ₈ I.D., ⁷ / ₃₂ Depth
	Exh	1970-76		1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.660 Valve Head Dia.
		1970-76		1 ¹³ / ₁₆ O.D., 1 ⁹ / ₁₆ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.770 Valve Head Dia.
Valve	Int	1970-70	01296	1.960 Head Diameter, 4.980 Overall Length, YH Engine
		1970-72	01161	2.110 Head Diameter, Exc. 1970 YH Engine, 1971-72 H.O., 4.979 Overall Length
		1971-74	01216	2.110 Head Diameter, 4.875 Overall Length, 4 Bbl. Carb. Exc. H.O.
	Exh	1970-70	01093	1.660 Head Diameter, 4.984 Overall Length, YH Engine
		1971-72	01160	1.770 Head Diameter, H.O. 4.975 Overall Length
		1971-72	01215	1.770 Head Diameter, 4.875 Overall Length, 4 Bbl. Carb. Exc. H.O.
		1971-74	01247	1.660 Head Diameter, 4.870 Overall Length, 2 Bbl. Carb. Exc. 73-74 Super Duty
1975-76	01310	1.660 Head Diameter, 4.809 Overall Length		
Keeper	Both	1970-76	121-1003	1 SQ Bead Type
Stem Seal	Both	1970-76	122-1048	Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss
Guide	Both	1970-76	140-6523	0.3440 I.D., 3.063 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1970-76	140-9523	0.3440 I.D., 3.063 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9523H)

GM / PASSENGER CAR (Cont'd)

224 455 C.I., (7.5L), OHV, GAS, CARB, 16 Valve, ""Pontiac"" **455PON**
 (cont.) 1970-76 V8 455 CID **BORE - 105.4mm/4.15""**

PART		YEARS	PART NO.	NOTES
Spring	Both	1970-76	160-1136	1.760 Length,Inner, Exc. Super Duty
		1970-76	160-1137	1.940 Length,Outer, Exc. Super Duty
Lifter	Both	1970-76	VL49	Hydraulic Type,Exc.Hi-Perf.
Rocker Components	Both	1970-76	181-1020	Rocker Arm Kit, Includes (1) Rocker Arm (1) Grooved Ball, (1) 3/8 Nut
		1970-76	184-1038	Nut, 3/8
Push Rod	Both	1970-76	192-1229	9.136 Length,- 60 U/S (192-1229U60) Available

225 472 C.I., (7.7L), OHV, GAS, CARB, 16 Valve, Vin 0, 1, 8, 9, R **GMC472**
 1968-74 V8 472 CID **BORE - 109.2mm/4.30""**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1968-74	SB2125-2	2 1/8 O.D., 1 7/8 I.D., 1/4 Depth
	Exh	1968-74	SB1750-2	1 3/4 O.D., 1 1/2 I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1968-73	01084	2.000 Head Diameter, 5.233 Overall Length
		1974-74	01293	2.000 Head Diameter, 4.998 Overall Length
	Exh	1968-73	01083	1.625 Head Diameter, 5.246 Overall Length
		1974-74	01292	1.625 Head Diameter, 4.998 Overall Length
Keeper	Both	1968-74	121-1003	1 SQ Bead Type
Stem Seal	Both	1968-74	122-1047	Positive Type, Poly Material, 2-Ring Style
Guide	Both	1968-74	140-6105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1968-74	140-9105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9105U)
Spring	Both	1968-74	160-1121	2.250 Length
Lifter	Both	1968-74	VL117RH	Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train.
		1968-74	VL73	Hydraulic Type
Push Rod	Both	1968-74	190-1385	10.200 Length

226 500 C.I., (8.2L), OHV, GAS, CARB, FI, 16 Valve, Vin 0, 1, S **500S**
 1970-76 V8 500 CID **BORE - 109.2mm/4.30""**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1970-76	SB2125-2	2 1/8 O.D., 1 7/8 I.D., 1/4 Depth
	Exh	1970-76	SB1750-2	1 3/4 O.D., 1 1/2 I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1970-73	01084	2.000 Head Diameter, 5.233 Overall Length
		1974-76	01293	2.000 Head Diameter, 4.998 Overall Length
	Exh	1970-73	01083	1.625 Head Diameter, 5.246 Overall Length
		1974-76	01292	1.625 Head Diameter, 4.998 Overall Length
Keeper	Both	1970-76	121-1003	1 SQ Bead Type
Stem Seal	Both	1970-76	122-1047	Positive Type, Poly Material, 2-Ring Style
Guide	Both	1970-76	140-6105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1970-76	140-9105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9105U)
Spring	Both	1970-76	160-1121	2.250 Length
Lifter	Both	1970-76	VL117RH	Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train.
		1970-76	VL73	Hydraulic Type

(Cont'd) **GM / PASSENGER CAR**

500 C.I., (8.2L), OHV, GAS, CARB, FI, 16 Valve, Vin 0, 1, S
1970-76 V8 500 CID

500S **226**
BORE - 109.2mm/4.30" (cont.)

PART	YEARS	PART NO.	NOTES
Push Rod	Both	1970-76	190-1385 10.200 Length

GM TRUCK / PASSENGER TRUCK

Engine	Models	Line No.
4 Cylinder		
83 C.I., (1.4L), DOHC, GAS, FI, 16 Valve, Vin B, LUV, "Ecotec TURBO" (2013-21)	Encore, Trax	1
85 C.I., (1.4L), DOHC, GAS, FI, 16 Valve, Vin M, LE2, "Ecotec TURBO" (2016-19)	Encore	2
91 C.I., (1.5L), DOHC, GAS, FI, 16 Valve, Vin V, LYX, "Ecotec TURBO" (2018-21)	Equinox, Terrain	3
1588cc, (1.6L), SOHC, GAS, FI, 8 Valve, Vin U, "G16KC Suzuki" (1989-95)	Tracker	4
1588cc, (1.6L), SOHC, GAS, FI, 16 Valve, Vin 6, "G16KV Suzuki" (1994-00)	Tracker	5
98 C.I., (1.6L), DOHC, DIESEL, FI, 16 Valve, Vin U, LH7, "TURBO" (2018-21)	Equinox, Terrain	6
1817cc, (1.8L), SOHC, GAS, CARB, Vin N, "Isuzu" (1972-82)	LUV, Luv Pickup	7
1950cc, (1.9L), SOHC, GAS, CARB, 8 Valve, Vin A, "Isuzu" (1982-85)	S10, S10 Blazer, S15, S15 Jimmy	8
122 C.I., (2.0L), OHV, GAS, CARB, 8 Valve, Vin Y (1983-84)	S10, S10 Blazer, S15, S15 Jimmy	9
122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin C, "J20A Suzuki" (1999-03)	Tracker	10
1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 3, L0A, "Nissan" (2015-18)	City Express	11
122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin X, LTG, "Ecotec TURBO" (2016-20)	Envision, Equinox, Terrain, Traverse	12
2196cc, (2.2L), OHV, DIESEL, FI, 8 Valve, Vin S, "Isuzu" (1982-85)	LUV, S10, S10 Blazer, S15	13
134 C.I., (2.2L), OHV, FLEX, GAS, FI, 8 Valve, Vin 4, 5, H, "Vortec" (1994-03)	LLV, S10, Sonoma	14
134 C.I., (2.2L), DOHC, GAS, FI, 16 Valve, Vin D, L61, "Ecotec TURBO" (2002-07)	Vue	15
145 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin C, W, LAF, "Ecotec" (2010-11)	Equinox, Terrain	16
145 C.I., (2.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin Z, LAT, "Ecotec Hybrid" (2007-09)	Vue Hybrid	17
145 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin P, LE5, "Ecotec" (2008-09)	Vue	18
145 C.I., (2.4L), DOHC, FLEX, GAS, FI, 16 Valve, Vin K, LEA, "Ecotec" (2012-17)	Captiva Sport, Equinox, Orlando, Terrain	19
151 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin E, "Pontiac" (1985-91)	S10, S10 Blazer, S15, S15 Jimmy, Sonoma	20
151 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin A, "Pontiac" (1991-93)	S10, Sonoma	21
153 C.I., (2.5L), OHV, GAS, CARB, 8 Valve (1963-65)	G10 Van, P10 Series	23
153 C.I., (2.5L), DOHC, FLEX, GAS, FI, 16 Valve, Vin A, LCV, "Ecotec" (2015-21)	Acadia, Blazer, Canyon, Colorado, Envision	24

GM TRUCK / PASSENGER TRUCK (Cont'd)

Engine	Models	Line No.
4 Cylinder		
169 C.I., (2.8L), DOHC, GAS, FI, 16 Valve, Vin 8, LK5, ""Atlas Vortec 2800"" (2004-06)	Canyon, Colorado	25
171 C.I., (2.8L), DOHC, DIESEL, FI, 16 Valve, Vin 1, LWN, ""Duramax TURBO"" (2016-21)	Canyon, Colorado, Express 2500, Express 3500, Savana 2500, Savana 3500	27
178 C.I., (2.9L), DOHC, GAS, FI, 16 Valve, Vin 9, LLV, ""Atlas Vortec 2900"" (2007-12)	Canyon, Colorado	30
239 C.I., (3.9L), OHV, DIESEL, FI, 8 Valve, Vin L, ""Cummins TURBO"" (1989-91)	P30, P3500	57
5 Cylinder		
211 C.I., (3.5L), DOHC, GAS, FI, 20 Valve, Vin 6, L52, ""Atlas Vortec 3500"" (2004-06)	Canyon, Colorado, H3	38
223 C.I., (3.7L), DOHC, GAS, FI, 20 Valve, Vin E, LLR, ""Atlas Vortec 3700"" (2007-12)	Canyon, Colorado, H3, H3T	49
6 Cylinder		
2500cc, (2.5L), DOHC, GAS, FI, 24 Valve, Vin 4, H25A, ""Suzuki"" (2001-04)	Tracker	22
170 C.I., (2.8L), DOHC, GAS, FI, 24 Valve, Vin 4, 6, LAU, ""High Feature V6 TURBO"" (2010-11)	SRX	26
173 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, Vin B (1982-85)	S10, S10 Blazer, S15, S15 Jimmy	28
173 C.I., (2.8L), OHV, GAS, FI, 12 Valve, Vin R (1986-93)	S10, S10 Blazer, S15, S15 Jimmy, Sonoma	29
181 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin B (2002-03)	Vue	31
182 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin Y, LF1, ""High Feature V6"" (2010-11)	Equinox, SRX, Terrain	32
182 C.I., (3.0L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 5, LFW, ""High Feature V6"" (2011-12)	Captiva Sport, Equinox, Terrain	33
189 C.I., (3.1L), OHV, GAS, FI, 12 Valve, Vin D (1990-95)	Lumina APV	34
194 C.I., (3.2L), OHV, GAS, CARB, 12 Valve (1963-66)	El Camino, G10 Van, G1000 Series, P10 Series, P1000, PB1000 Series	35
200 C.I., (3.3L), OHV, GAS, CARB, 12 Valve, Vin M (1978-79)	Caballero, El Camino	36
207 C.I., (3.4L), OHV, GAS, FI, 12 Valve, Vin E, F (1996-09)	Aztek, Equinox, Lumina APV, Montana, Rendezvous, Silhouette, Torrent, Trans Sport, Venture	37
3474cc, (3.5L), SOHC, GAS, FI, 24 Valve, Vin 4, J35A3, ""Honda"" (2004-07)	Vue	39
213 C.I., (3.5L), OHV, GAS, FI, 12 Valve, Vin L, LX9 (2005-07)	Montana, Rendezvous, Terraza, Uplander	40
213 C.I., (3.5L), OHV, GAS, FI, 12 Valve, Vin N, LZ4 (2008-09)	Vue	41
216 C.I., (3.5L), OHV, GAS, CARB, 12 Valve, ""Chevrolet"" (1937-53)	Master Deluxe Truck, Master Truck, Sedan Delivery, Suburban, Truck	42
217 C.I., (3.6L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 3, LFX, ""High Feature V6"" (2012-17)	Canyon, Colorado, Equinox, SRX, Terrain	43
217 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin W, LFY, ""High Feature V6"" (2018-21)	Enclave, Traverse	44
217 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin D, LLT, ""High Feature V6"" (2009-17)	Acadia, Acadia Limited, Enclave, Outlook, Traverse	45

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

Engine	Models	Line No.
6 Cylinder		
217 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin 7, LY7, ""High Feature V6"" (2004-10)	Acadia, Enclave, Equinox, Outlook, Rendezvous, SRX, Torrent, Vue	46
222 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin S, LGX, ""High Feature V6"" (2017-21)	Acadia, Blazer, XT5, XT6	47
222 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin N, LGZ, ""High Feature V6"" (2017-21)	Canyon, Colorado	48
229 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 9, K (1980-84)	Caballero, El Camino	50
230 C.I., (3.8L), OHV, GAS, CARB, Vin S, ""Chevrolet"" (1963-69)	1000 Series, 1500 Series, 2500 Series, 3000, 3500, C10 Panel, C10 Pickup, C15/C1500 Pickup, C20 Pickup, C30 Panel, C30 Pickup, El Camino, G10 Van, G1000 Series, G15/G1500 Van, G20 Van, G25/G2500 Van, I1000, I1500, I2500, K10 Pickup, K15/ K1500 Pickup, K20 Pickup, P10 Series, P10 Van, P1000, P15/ P1500 Van, P20 Series, P30 Series, PB1000 Series, PB1500 Series, PB2500 Series, Suburban	51
231 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 2, A (1979-84)	Caballero, El Camino	52
231 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin L (1992-95) . . .	Lumina APV, Silhouette, Trans Sport	53
235 C.I., (3.8L), OHV, GAS, CARB, 12 Valve (1942-62)	1500, C10 Pickup, C20 Pickup, C30 Pickup, C40, El Camino, K10 Pickup, K20 Pickup, P10 Series, P20 Series, P30 Series, PB1000 Series, Sedan Delivery, Suburban, Truck	54
237 C.I., (3.9L), OHV, FLEX, FI, 12 Valve, Vin W, LGD (2007-09)	Montana, Relay, Terraza, Uplander	55
237 C.I., (3.9L), OHV, GAS, FI, 12 Valve, Vin 1, LZ9 (2006-09)	Montana, Relay, Terraza, Uplander	56
248 C.I., (4.1L), OHV, GAS, CARB, 12 Valve (1953-55)	100, 100-22, 100-24, 150, 150-22, 150-24, 250, 250-22, 250-24, 280-22, 300, 300-24, 350-24, 350-27, 370, F350, F350-24, F350-27, F370, M300, M350-24, M350-27, P150-22, PM150, PM150-22, PM150-24, PM151, PM152, PM152-22, PM153, PM250, PM250-24, PM252, PM253, S300, S300-24, S370, Truck	58
250 C.I., (4.1L), OHV, GAS, LPG, CARB, 12 Valve, Vin C, D, L, N, P, Q, S (1966-84)	1000, 1500, 2500, 3000, 3500, Blazer, C10, C10 Panel, C10 Pickup, C10 Suburban, C15, C15 Suburban, C15/C1500 Pickup, C15/C1500 Suburban, C1500, C1500 Suburban, C20, C20 Panel, C20 Pickup, C20 Suburban, C25, C25/C2500 Pickup, C25/C2500 Suburban, C2500, C30, C30 Panel, C30 Pickup, C35, C35/C3500 Pickup, C3500, El Camino, G10, G10 Van, G15, G15/G1500 Van, G1500, G20, G20 Van, G25/G2500 Van, G2500, G30, G30 Van, G35, G35/G3500 Van, G3500, I1000, I1500, I2500, I3500, Jimmy, K10, K10 Pickup, K10 Subu	59
256 C.I., (4.2L), DOHC, GAS, FI, 24 Valve, Vin S, LL8, ""Atlas Vortec 4200"" (2002-09)	Bravada, Envoy, Envoy XL, Envoy XUV, Rainier, Trailblazer, Trailblazer EXT	60
261 C.I., (4.3L), OHV, GAS, CARB, 12 Valve, ""Chevrolet"" (1954-62)	1000 Series, 1500, 1500 Series, 2500 Series, 3000, 3500, C10 Pickup, C20 Pickup, C30 Pickup, C40, K10 Pickup, K20 Pickup, P10 Series, P20 Series, P30 Series, Sedan Delivery, Suburban, Truck	61
262 C.I., (4.3L), OHV, GAS, FI, 12 Valve, Vin Z (1985-95) . . .	Astro, Bravada, C1500, C2500, Caballero, El Camino, G10, G1500, G20, G2500, G30, G3500, Jimmy, K1500, K2500, P30, P3500, R10, R1500, R20, R2500, S10, S10 Blazer, S15, S15 Jimmy, Safari, Sonoma, Syclone, Typhoon, V10, V1500	62

GM TRUCK / PASSENGER TRUCK (Cont'd)

Engine	Models	Line No.
6 Cylinder		
262 C.I., (4.3L), OHV, GAS, FI, 12 Valve, Vin Z, ""TURBO"" (1991-93)	Syclone, Typhoon	63
262 C.I., (4.3L), OHV, GAS, FI, 12 Valve, Vin W, X, ""Vortec"" (1992-14)	Astro, Blazer, Bravada, C1500, Express 1500, Express 2500, Jimmy, K1500, P30, P3500, S10, S10 Blazer, Safari, Savana 1500, Savana 2500, Savana 3500, Sierra 1500, Sierra 1500 Classic, Silverado 1500, Silverado 1500 Classic, Sonoma	64
262 C.I., (4.3L), OHV, FLEX, GAS, FI, 12 Valve, Vin P, LV1, ""Vortec"" (2018-21)	Express 2500, Express 3500, Savana 2500, Savana 3500	65
262 C.I., (4.3L), OHV, FLEX, GAS, FI, 12 Valve, Vin H, LV3, ""AFM EcoTec3"" (2014-21)	Sierra 1500, Silverado 1500	66
292 C.I., (4.8L), OHV, GAS, LPG, CARB, FI, 12 Valve, Vin S, T (1963-89)	1000 Series, 1500 Series, 2500 Series, 3000, 3500, Blazer, C10, C10 Pickup, C10 Suburban, C15, C15/C1500 Pickup, C15/C1500 Suburban, C1500, C20, C20 Pickup, C20 Suburban, C25, C25 Suburban, C25/C2500 Pickup, C25/C2500 Suburban, C2500, C2500 Suburban, C30, C30 Pickup, C35, C35/C3500 Pickup, C3500, G20, G20 Van, G25, G25/G2500 Van, G30, G30 Van, G35, G35/G3500 Van, Jimmy, K10, K10 Pickup, K10 Suburban, K15, K15/K1500 Pickup, K15/K1500 Suburban, K1500, K20, K20 Pickup, K20 Suburban, K25, K25 Subur	71
305 C.I., (5.0L), OHV, GAS, CARB, 12 Valve (1960-68)	1000, 1000 Series, 1500 Series, 2500 Series, 3000, 3500, B3500, C15/C1500 Pickup, C15/C1500 Suburban, C25/C2500 Pickup, C25/C2500 Suburban, C35/C3500 Pickup, K1000, K1000 Pickup, K15/K1500 Pickup, K15/K1500 Suburban, K25/K2500 Pickup, K25/K2500 Suburban, K35/K3500 Pickup, L3500, PB1500 Series, PB2500 Series, Suburban, Truck, V3000 Forward Control	75
351 C.I., (5.7L), OHV, GAS, CARB, 12 Valve, ""Chevrolet V6"" (1960-65)	1000 Series, 1500 Series, 2500 Series, 3000, 3500, B3500, L3500, Suburban	100
351 C.I., (5.7L), OHV, GAS, CARB, 12 Valve, C,E,M, ""Chevrolet V6"" (1966-72)	3000, 3500, C15/C1500 Pickup, C15/C1500 Suburban, C25/C2500 Pickup, C25/C2500 Suburban, C35/C3500 Pickup, K1000, K15/K1500 Pickup, K15/K1500 Suburban, K25/K2500 Pickup, K25/K2500 Suburban, K35/K3500 Pickup, L3500, Suburban	101
379 C.I., (6.2L), OHV, GAS, CARB, 12 Valve (1973-74)	C60	118
401 C.I., (6.6L), OHV, GAS, CARB, 12 Valve (1960-65)		124
401 C.I., (6.6L), OHV, GAS, CARB, 12 Valve, Vin M (1966-73)		125
432 C.I., (7.1L), OHV, GAS, CARB, 12 Valve (1973-74)	C60	132
478 C.I., (7.8L), OHV, DIESEL, FI, 12 Valve (1961-74)		136
478 C.I., (7.8L), OHV, GAS, CARB, 12 Valve (1962-65)	C60	137
478 C.I., (7.8L), OHV, GAS, CARB, 12 Valve, 478M (1966-74)	C60	138
8 Cylinder		
265 C.I., (4.3L), OHV, GAS, CARB, 16 Valve (1955-57)	Sedan Delivery, Suburban, Truck	67
267 C.I., (4.4L), OHV, GAS, CARB, 16 Valve, Vin J (1979-81)	Caballero, El Camino	68
281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin A, LH2, ""Cadillac Northstar"" (2004-09)	SRX	69

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

Engine	Models	Line No.
8 Cylinder		
283 C.I., (4.6L), OHV, GAS, CARB, 16 Valve, ""Chevrolet"" (1957-67)	1000 Series, 1500 Series, 2500 Series, 3000, 3500, 3B, 3C, 3D, 3E, 3F, 3G, C10 Pickup, C10 Suburban, C15/C1500 Pickup, C15/ C1500 Suburban, C20 Pickup, C20 Suburban, C25/C2500 Pickup, C25/C2500 Suburban, C30 Pickup, C35/C3500 Pickup, C40, El Camino, G15/G1500 Van, G20 Van, G25/G2500 Van, K10 Pickup, K10 Suburban, K15/K1500 Pickup, K15/K1500 Suburban, K20 Panel, K20 Pickup, K20 Suburban, K25/K2500 Pickup, K25/K2500 Suburban, P10 Series, P15/P1500 Van, P20 Series, P25/P2500 Van, P30 Series, P35/P3	70
294 C.I., (4.8L), OHV, GAS, FI, 16 Valve, Vin V, LR4, ""Vortec"" (1999-07)	Express 2500, Express 3500, Savana 2500, Savana 3500, Sierra 1500, Sierra 1500 Classic, Silverado 1500, Silverado 1500 Classic, Tahoe, Yukon	72
294 C.I., (4.8L), OHV, GAS, FI, 16 Valve, Vin C, LY2, ""Vortec"" (2007-09)	Express 2500, Express 3500, Savana 2500, Savana 3500, Sierra 1500, Silverado 1500, Tahoe, Yukon	73
294 C.I., (4.8L), OHV, FLEX, FI, 16 Valve, Vin A, F, L20, ""Vortec"" (2010-17)	Express 2500, Express 3500, Savana 2500, Savana 3500, Sierra 1500, Silverado 1500	74
305 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, Vin F, G, H, Q, U (1976-87)	C10, C10 Suburban, C15, C15 Suburban, C1500, C1500 Suburban, C20, C20 Suburban, C25, C25 Suburban, C2500, C2500 Suburban, C30, C35, C3500, Caballero, El Camino, G10, G15, G1500, G20, G2500, G30, Jimmy, K10, K10 Suburban, K15, K15 Suburban, K1500, K1500 Suburban, K20, K20 Suburban, K25, K25 Suburban, K5 Blazer, P10, Sprint	76
305 C.I., (5.0L), OHV, GAS, FI, 16 Valve, Vin H, M (1988-02)	C1500, C2500, Express 1500, Express 2500, G10, G1500, G20, G2500, K1500, K2500, R20, Savana 1500, Savana 2500	77
307 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, Vin A, B, E, F, H, P, U, X (1968-73)	Blazer, C10 Pickup, C10 Suburban, C15/C1500 Pickup, C15/ C1500 Suburban, C20 Pickup, C20 Suburban, C25/C2500 Pickup, C25/C2500 Suburban, C30 Pickup, C35/C3500 Pickup, El Camino, G20 Van, G35/G3500 Van, Jimmy, K10 Pickup, K10 Suburban, K15/K1500 Pickup, K15/K1500 Suburban, K20 Pickup, K20 Suburban, K25/K2500 Pickup, K25/K2500 Suburban, K30 Pickup, K35/K3500 Pickup, Sprint	78
323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin B, L33, ""H.O. Vortec"" (2005-07)	Sierra 1500, Sierra 1500 Classic, Silverado 1500, Silverado 1500 Classic	79
323 C.I., (5.3L), OHV, FLEX, FI, 16 Valve, Vin Z, L59, ""Vortec"" (2002-07)	Avalanche 1500, Express 1500, Savana 1500, Sierra 1500, Sierra 1500 Classic, Silverado 1500, Silverado 1500 Classic, Suburban 1500, Tahoe, Yukon, Yukon XL 1500	80
323 C.I., (5.3L), OHV, FLEX, FI, 16 Valve, Vin 3, 7, LC9, ""AFM Vortec"" (2007-14)	Avalanche, Sierra 1500, Silverado 1500, Suburban 1500, Tahoe, Yukon, Yukon XL 1500	81
323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin M, LH6, ""AFM Vortec"" (2005-09)	Envoy, Envoy XL, Envoy XUV, Rainier, Sierra 1500, Silverado 1500, Trailblazer, Trailblazer EXT	82
323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin L, LH8, ""Vortec"" (2008-09)	Canyon, Colorado, H3, H3T	83
323 C.I., (5.3L), OHV, FLEX, GAS, FI, 16 Valve, Vin P, LH9, ""Vortec"" (2010-12)	Canyon, Colorado, H3, H3T	84
323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin P, LM4, ""Vortec"" (2003-04)	Rainier, SSR, Trailblazer EXT	85

GM TRUCK / PASSENGER TRUCK (Cont'd)

Engine	Models	Line No.
8 Cylinder		
323 C.I., (5.3L), OHV, ELECTRIC/GAS, FI, 16 Valve, Vin T, LM7, ""Vortec"" (1999-07)	Avalanche 1500, Escalade, Express 1500, Express 2500, Savana 1500, Savana 2500, Sierra 1500, Sierra 1500 Classic, Sierra 2500, Silverado 1500, Silverado 1500 Classic, Silverado 2500, Suburban 1500, Tahoe, Yukon, Yukon XL 1500	86
323 C.I., (5.3L), OHV, FLEX, GAS, FI, 16 Valve, Vin 4, LMF, ""Vortec"" (2008-14)	Express 1500, Savana 1500	87
323 C.I., (5.3L), OHV, FLEX, FI, 16 Valve, Vin 0, LMG, ""AFM Vortec"" (2007-14)	Avalanche, Sierra 1500, Silverado 1500, Suburban 1500, Tahoe, Yukon, Yukon XL 1500	88
323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin J, LY5, ""AFM Vortec"" (2007-09)	Avalanche, Sierra 1500, Silverado 1500, Suburban 1500, Tahoe, Yukon, Yukon XL 1500	89
325 C.I., (5.3L), OHV, FLEX, GAS, FI, 16 Valve, Vin C, L83, ""AFM EcoTec3"" (2014-20)	Sierra 1500, Sierra 1500 Limited, Silverado 1500, Silverado 1500 LD, Suburban, Tahoe, Yukon, Yukon XL	90
325 C.I., (5.3L), OHV, FLEX, GAS, FI, 16 Valve, Vin F, L82, ""AFM EcoTec3"" (2019-21)	Sierra 1500, Silverado 1500	91
325 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin D, L84, ""DFM EcoTec3"" (2019-21)	Sierra 1500, Silverado 1500, Suburban, Tahoe, Yukon, Yukon XL	92
323 C.I., (5.3L), OHV, ELECTRIC/GAS, FI, 16 Valve, Vin R, L8B, ""AFM EcoTec3 Hybrid"" (2016-18)	Sierra 1500, Silverado 1500	93
327 C.I., (5.3L), OHV, GAS, CARB, 16 Valve, Vin E (1964-68)	C10 Pickup, C10 Suburban, C15/C1500 Pickup, C15/C1500 Suburban, C20 Pickup, C20 Suburban, C25/C2500 Pickup, C25/C2500 Suburban, C30 Pickup, C35/C3500 Pickup, El Camino, K10 Pickup, K10 Suburban, K15/K1500 Pickup, K15/K1500 Suburban, K20 Pickup, K20 Suburban, K25/K2500 Pickup, K25/K2500 Suburban, K30 Pickup, K35/K3500 Pickup, Suburban	94
350 C.I., (5.7L), OHV, LPG, CARB, 16 Valve, Vin W (1969-74)	Blazer, C10 Pickup, C10 Suburban, C15/C1500 Pickup, C15/C1500 Suburban, C20 Pickup, C20 Suburban, C25/C2500 Pickup, C25/C2500 Suburban, C30 Pickup, C35/C3500 Pickup, G10 Van, G20 Van, G35/G3500 Van, K10 Pickup, K10 Suburban, K15/K1500 Pickup, K15/K1500 Suburban, K20 Pickup, K20 Suburban, K25/K2500 Pickup, K25/K2500 Suburban, K30 Pickup, K35/K3500 Pickup	95
350 C.I., (5.7L), OHV, GAS, CARB, 16 Valve, Vin A, B, E, H, J, K, L, M, P, V, Y (1969-88)	Blazer, C10, C10 Pickup, C10 Suburban, C15, C15 Suburban, C15/C1500 Pickup, C15/C1500 Suburban, C1500, C1500 Suburban, C20, C20 Pickup, C20 Suburban, C25, C25 Suburban, C25/C2500 Pickup, C25/C2500 Suburban, C2500, C2500 Suburban, C30, C30 Pickup, C35, C35/C3500 Pickup, C3500, Caballero, El Camino, G10, G10 Van, G15, G15/G1500 Van, G1500, G20, G20 Van, G25, G25/G2500 Van, G2500, G30, G30 Van, G35, G35/G3500 Van, G3500, Jimmy, K10, K10 Pickup, K10 Suburban, K15, K15 Suburban, K15/K1500 Pickup, K1	96
350 C.I., (5.7L), OHV, CNG, GAS, FI, 16 Valve, Vin K (1989-95)	Blazer, C1500, C1500 Suburban, C2500, C2500 Suburban, C3500, G10, G1500, G20, G2500, G30, G3500, Jimmy, K1500, K1500 Suburban, K2500, K2500 Suburban, K3500, P20, P2500, P30, P3500, R1500 Suburban, R2500, R2500 Suburban, R3500, Tahoe, V1500 Suburban, V2500 Suburban, V3500, Yukon	97

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

Engine	Models	Line No.
8 Cylinder		
350 C.I., (5.7L), OHV, BI-FUEL, CNG, GAS, FI, 16 Valve, Vin R, ""Vortec"" (1996-02)	C1500, C1500 Suburban, C2500, C2500 Suburban, C3500, Escalade, Express 1500, Express 2500, Express 3500, K1500, K1500 Suburban, K2500, K2500 Suburban, K3500, P30, P3500, Savana 1500, Savana 2500, Savana 3500, Tahoe, Yukon	98
350 C.I., (5.7L), OHV, DIESEL, FI, 16 Valve, Vin Z (1978-81)	C10, C10 Suburban, C15, C15 Suburban, C1500, C1500 Suburban, C2500 Suburban, C30	99
364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin Y, L76, ""AFM Vortec"" (2007-09)	Avalanche, Sierra 1500, Silverado 1500, Suburban 1500, Yukon XL 1500	102
364 C.I., (6.0L), OHV, FLEX, GAS, FI, 16 Valve, Vin G, L96, ""Vortec"" (2010-20)	Express 2500, Express 3500, LCF 3500, Savana 2500, Savana 3500, Sierra 2500 HD, Sierra 3500 HD, Silverado 2500 HD, Silverado 3500 HD, Suburban 2500, Suburban 3500 HD, Yukon XL 2500	103
364 C.I., (6.0L), OHV, BI-FUEL, CNG, GAS, FI, 16 Valve, Vin U, LQ4, ""Vortec"" (1999-07)	Express 2500, Express 3500, H2, Savana 2500, Savana 3500, Sierra 1500, Sierra 1500 HD, Sierra 1500 HD Classic, Sierra 2500, Sierra 2500 HD, Sierra 2500 HD Classic, Sierra 3500, Sierra 3500 Classic, Silverado 1500 HD, Silverado 1500 HD Classic, Silverado 2500, Silverado 2500 HD, Silverado 2500 HD Classic, Silverado 3500, Silverado 3500 Classic, Suburban 1500, Suburban 2500, Yukon, Yukon XL 1500, Yukon XL 2500	104
364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin N, LQ9, ""H.O. Vortec"" (2002-07)	Escalade, Escalade ESV, Escalade EXT, Sierra 1500, Sierra 1500 Classic, Silverado 1500, Silverado 1500 Classic	105
364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin H, LS2, ""Vortec"" (2005-09)	SSR, Trailblazer	106
364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin K, LY6, ""Vortec"" (2007-10)	Express 2500, Express 3500, Express 4500, Savana 2500, Savana 3500, Savana 4500, Sierra 2500 HD, Sierra 3500 HD, Silverado 2500 HD, Silverado 3500 HD, Suburban 2500, Yukon XL 2500	107
364 C.I., (6.0L), OHV, ELECTRIC/GAS, FI, 16 Valve, Vin 5, LFA, ""AFM Vortec Hybrid"" (2008-09)	Escalade, Sierra 1500, Silverado 1500, Tahoe, Yukon	108
364 C.I., (6.0L), OHV, ELECTRIC/FLEX, FI, 16 Valve, Vin J, LZ1, ""AFM Vortec Hybrid"" (2010-13)	Escalade, Sierra 1500, Silverado 1500, Tahoe, Yukon	109
364 C.I., (6.0L), OHV, CNG, FLEX, GAS, FI, 16 Valve, Vin B, LC8, ""Vortec"" (2011-20)	Express 2500, Express 3500, Express 4500, LCF 3500, LCF 4500, Savana 2500, Savana 3500, Savana 4500, Silverado 2500 HD, Silverado 3500 HD	110
366 C.I., (6.0L), OHV, GAS, CARB, 16 Valve, Vin B, L86 (1966-83)	B60, B6000, C50, C5000, C60, C6000, C70, C7000, P60, P6000	111
366 C.I., (6.0L), OHV, GAS, CARB, 16 Valve, Vin B, P, ""Medium Duty"" (1984-98)	B60, B6000, B7, C5000 Topkick, C5500 Kodiak, C60, C60 Kodiak, C6000, C6000 Topkick, C6500 Kodiak, C6500 Topkick, C70, C70 Kodiak, C7000, C7000 Topkick, C7500 Kodiak, C7500 Topkick, P6000, P6500, T6500, T7500	112
376 C.I., (6.2L), OHV, FLEX, GAS, FI, 16 Valve, Vin J, L86, ""AFM EcoTec3"" (2014-20)	Escalade, Escalade ESV, Sierra 1500, Silverado 1500, Suburban, Tahoe, Yukon, Yukon XL	113
376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin L, L87, ""DFM EcoTec3"" (2019-21)	Escalade, Escalade ESV, Sierra 1500, Silverado 1500, Suburban, Tahoe, Yukon, Yukon XL	114

GM TRUCK / PASSENGER TRUCK (Cont'd)

Engine	Models	Line No.
8 Cylinder		
376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin 8, L92, ""AFM Vortec"" (2007-08)	Escalade, Escalade ESV, Escalade EXT, H2, Sierra 1500, Yukon, Yukon XL 1500	116
376 C.I., (6.2L), OHV, FLEX, FI, 16 Valve, Vin F, L94, ""AFM Vortec"" (2010-14)	Escalade, Escalade ESV, Escalade EXT, Yukon, Yukon XL 1500	116
376 C.I., (6.2L), OHV, FLEX, FI, 16 Valve, Vin 2, L9H, ""Vortec"" (2009-13)	Escalade, Escalade ESV, Escalade EXT, H2, Sierra 1500, Silverado 1500, Tahoe, Yukon, Yukon XL 1500	117
379 C.I., (6.2L), OHV, DIESEL, FI, 16 Valve, Vin C, J, X (1982-93)	Blazer, C10, C10 Suburban, C1500, C1500 Suburban, C20, C20 Suburban, C2500, C2500 Suburban, C30, C3500, G20, G2500, G30, G3500, Hummer, Jimmy, K10, K10 Suburban, K1500, K1500 Suburban, K20, K20 Suburban, K2500, K2500 Suburban, K30, K3500, K5 Blazer, P20, P2500, P30, P3500, R10, R10 Suburban, R1500, R1500 Suburban, R20, R20 Suburban, R2500, R2500 Suburban, R30, R3500, V10, V10 Suburban, V1500, V1500 Suburban, V20, V20 Suburban, V2500, V2500 Suburban, V30, V3500	119
395 C.I., (6.5L), OHV, DIESEL, FI, 16 Valve, Vin P, Y (1994-99)	C1500, C2500, G20, G2500, G30, G3500, Hummer, K1500, K2500, P30, P3500	120
395 C.I., (6.5L), OHV, DIESEL, FI, 16 Valve, Vin F, S, Z, ""TURBO"" (1992-04)	B7, Blazer, C1500, C1500 Suburban, C2500, C2500 Suburban, C3500, C3500HD, Express 2500, Express 3500, H1, Hummer, K1500, K1500 Suburban, K2500, K2500 Suburban, K3500, P30, P3500, Savana 2500, Savana 3500, Tahoe, Yukon	121
396 C.I., (6.5L), OHV, GAS, CARB, 16 Valve, Vin E, Y (1968-69)	C10 Pickup, C10 Suburban, C20 Pickup, C20 Suburban, C30 Pickup, El Camino, K10 Pickup, K10 Suburban, K20 Pickup, K20 Suburban, K30 Pickup	122
400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin M, R, U, X (1975-80)	C10, C15, C1500, C20, C20 Suburban, C25, C25 Suburban, C2500, C2500 Suburban, C30, C35, C3500, El Camino, G15, G1500, G25, G2500, G35, G3500, Jimmy, K10, K10 Suburban, K15, K15 Suburban, K1500, K1500 Suburban, K20, K20 Suburban, K25, K25 Suburban, K2500, K2500 Suburban, K30, K35, K3500, K5 Blazer, Sprint	123
402 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin E, K, S, U (1971-72)	Bel Air, Biscayne, Brookwood, C10 Pickup, C10 Suburban, C15/ C1500 Pickup, C15/C1500 Suburban, C20 Pickup, C20 Suburban, C25/C2500 Pickup, C25/C2500 Suburban, C30 Pickup, C35/ C3500 Pickup, Camaro, Caprice, Chevelle, El Camino, Impala, K10 Pickup, K10 Suburban, K15/K1500 Pickup, K15/K1500 Suburban, K20 Pickup, K20 Suburban, K25/K2500 Pickup, K25/ K2500 Suburban, K30 Pickup, K35/K3500 Pickup, Kingswood, Monte Carlo, Nova, Sprint, Townsman	126
403 C.I., (6.6L), OHV, DIESEL, FI, 32 Valve, Vin 1, 2, 6, 8, 9, D, L, ""Duramax TURBO"" (2001-16)	C4500 Kodiak, C4500 Topkick, C5500 Kodiak, C5500 Topkick, Express 2500, Express 3500, Express 4500, Savana 2500, Savana 3500, Savana 4500, Sierra 2500 HD, Sierra 2500 HD Classic, Sierra 3500, Sierra 3500 Classic, Sierra 3500 HD, Silverado 2500 HD, Silverado 2500 HD Classic, Silverado 3500, Silverado 3500 Classic, Silverado 3500 HD	127
403 C.I., (6.6L), OHV, DIESEL, FI, 32 Valve, Vin Y, L5P, ""Duramax TURBO"" (2017-21)	Sierra 2500 HD, Sierra 3500 HD, Silverado 2500 HD, Silverado 3500 HD	128

(Cont'd) GM TRUCK / PASSENGER TRUCK

Engine	Models	Line No.
8 Cylinder		
403 C.I., (6.6L), OHV, DIESEL, FI, 32 Valve, L5D, ""Duramax TURBO"" (2019-20)	Silverado 4500 HD, Silverado 5500 HD, Silverado 6500 HD . . .	129
427 C.I., (7.0L), OHV, GAS, CARB, FI, 16 Valve, ""Medium Duty"" (1968-97)	B60, B6000, B7, Brigadier, C50, C5000, C60, C60 Kodiak, C6000, C6000 Topkick, C6500 Kodiak, C6500 Topkick, C70, C70 Kodiak, C7000, C7000 Topkick, C7500 Kodiak, C7500 Topkick, P60, P6000, P6500	130
427 C.I., (7.0L), OHV, GAS, CARB, 16 Valve, ""Heavy Duty"" (1974-81)	Series 70 - 80	131
454 C.I., (7.4L), OHV, GAS, CARB, 16 Valve, Vin E, L, S, V, W, Y, Z (1971-89)	Blazer, C10, C10 Pickup, C10 Suburban, C15, C15 Suburban, C15/C1500 Pickup, C15/C1500 Suburban, C1500, C1500 Suburban, C20, C20 Pickup, C20 Suburban, C25, C25 Suburban, C25/C2500 Pickup, C25/C2500 Suburban, C2500, C2500 Suburban, C30, C30 Pickup, C35, C35/C3500 Pickup, C3500, El Camino, G10 Van, G20, G20 Van, G25, G30, G30 Van, G35, G35/G3500 Van, Jimmy, K10, K10 Pickup, K10 Suburban, K15, K15/K1500 Pickup, K15/K1500 Suburban, K1500, K20, K20 Pickup, K20 Suburban, K25, K25 Suburban, K25/K2500 P	133
454 C.I., (7.4L), OHV, GAS, CARB, 16 Valve, Vin S, W (1979-81)	C10, C10 Suburban, C1500, C1500 Suburban, C20, C20 Suburban, C2500, C2500 Suburban, C30, C3500, C70, C7000, K10, K1500, K30, K3500, P1500, P20, P30, P3500	134
454 C.I., (7.4L), OHV, GAS, FI, 16 Valve, Vin B, J, N (1987-00)	C1500, C2500, C2500 Suburban, C3500, Express 3500, G30, G3500, K2500, K2500 Suburban, K3500, P30, P3500, R20, R20 Suburban, R2500, R2500 Suburban, R30, R3500, Savana 3500, V20 Suburban, V2500 Suburban, V30, V3500	135
496 C.I., (8.1L), OHV, GAS, FI, 16 Valve, Vin G, ""Vortec"" (2001-07)	Avalanche 2500, Express 3500, Savana 3500, Sierra 2500 HD, Sierra 2500 HD Classic, Sierra 3500, Sierra 3500 Classic, Silverado 2500 HD, Silverado 2500 HD Classic, Silverado 3500, Silverado 3500 Classic, Suburban 2500, Yukon XL 2500	139
637 C.I., (10.4L), OHV, GAS, CARB, 16 Valve (1966-72)	Medium Duty Applications	140
12 Cylinder		
702 C.I., (11.6L), OHV, GAS, CARB, 12 Valve (1960-65)	Series 70 - 90	141

83 C.I., (1.4L), DOHC, GAS, FI, 16 Valve, Vin B, LUV, ""Ecotec TURBO"" GMT1.4-LUV 1
2013-21 L4 83 CID BORE - 72.5mm/2.85""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2013-20	13367	1.102 Head Diameter
	Exh	2013-20	13368S	0.984 Head Diameter,Stellite Face
Keeper	Both	2013-20	121-1131	3 RD Bead Type
Stem Seal	Both	2013-20	122-1468	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-20	140-3179	0.1966 I.D.,1.460 Length,0.3952 O.D.
		2013-20	140-3213	0.1966 I.D.,1.540 Length,0.3952 O.D.,NOTE: Alternative Length
Spring	Both	2013-20	160-1646	1.665 Length
Lifter	Both	2013-20	VL570	Hydraulic Lash Adjuster Type
Rocker Components	Both	2013-20	180-1339	Roller Cam Follower
Head Saver Shim		2013-20	230-2169	New Hgt. - 4.961"" - Min. Hgt. N/A

GM TRUCK / PASSENGER TRUCK (Cont'd)

2 85 C.I., (1.4L), DOHC, GAS, FI, 16 Valve, Vin M, LE2, ""Ecotec TURBO"" GMT1.4-LE2
2016-19 L4 85 CID BORE - 74mm/2.91""

PART	YEARS	PART NO.	NOTES	
Valve	Int Exh	2017-19 2017-19	13367 13368S	1.102 Head Diameter 0.984 Head Diameter,Stellite Face
Keeper	Both	2016-19	121-1131	3 RD Bead Type
Stem Seal	Both	2016-19	122-1468	Positive Type,Viton Material,Metal Clad Style
Spring	Both	2016-19	160-1646	1.665 Length
Lifter	Both	2016-17 2018-19	VL175 VL570	Hydraulic Lash Adjuster Type Hydraulic Lash Adjuster Type
Rocker Components	Both	2017-19	180-1339	Roller Cam Follower
Head Saver Shim		2017-19	230-2169	

3 91 C.I., (1.5L), DOHC, GAS, FI, 16 Valve, Vin V, LYX, ""Ecotec TURBO"" GMT1.5-LYX
2018-21 L4 91 CID BORE - 74mm/2.91""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2018-20	121-1131	3 RD Bead Type
Lifter	Both	2018-20	VL175	Hydraulic Lash Adjuster Type

4 1588cc, (1.6L), SOHC, GAS, FI, 8 Valve, Vin U, ""G16KC Suzuki"" GMT-G16KC
1989-95 L4 98 CID BORE - 75mm/2.95""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1989-95 1989-95	SB1500-79 SB1375-56	1½ O.D.,1.295 I.D.,0.2620 Depth 1¾ O.D.,1.102 I.D.,0.2600 Depth
Valve	Int	1989-95	10172	1.441 Head Diameter
Keeper	Both	1989-95	121-1061	1 RD Bead Type
Stem Seal	Both	1989-95	122-1142	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1989-95	140-8016	0.2757 I.D.,1.895 Length,0.4758 O.D.
Head Saver Shim		1989-95	230-2032	New Hgt. - 3.7500; Min. Hgt. - 3.7400

5 1588cc, (1.6L), SOHC, GAS, FI, 16 Valve, Vin 6, ""G16KV Suzuki"" GMT-G16KV
1994-00 L4 98 CID BORE - 75.2mm/2.96""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1994-00 1994-00	SB1250-54 SB1062-50	1¼ O.D.,1.010T I.D.,0.2570 Depth 1⅙ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int Exh	1994-00 1994-00	10516 10517	1.149 Head Diameter 0.986 Head Diameter
Keeper	Both	1994-00	121-1060	1 RD Bead Type
Stem Seal	Both	1994-00	122-1155	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1994-00	140-8324	0.2163 I.D.,1.260 Length,0.4365 O.D.
Head Saver Shim	Both	1994-00	230-2032	New Hgt. - 4.7250; Min. Hgt. - 4.7150

6 98 C.I., (1.6L), DOHC, DIESEL, FI, 16 Valve, Vin U, LH7, ""TURBO"" GMT1.6-LH7
2018-21 L4 98 CID BORE - 79.7mm/3.14""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2018-19	121-1131	3 RD Bead Type

7 1817cc, (1.8L), SOHC, GAS, CARB, Vin N, ""Isuzu"" GMT111N
1972-82 L4 111 CID BORE - 84mm/3.31""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1976-79 1980-82	SB1750-51 SB1750-52	1¾ O.D.,1.410T I.D.,0.2800 Depth,Series 5-9 1¾ O.D.,1.455T I.D.,0.3070 Depth,Series 10-12

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

1817cc, (1.8L), SOHC, GAS, CARB, Vin N, ""Isuzu""
1972-82 L4 111 CID

GMT111N 7
BORE - 84mm/3.31"" (cont.)

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1972-75	SB1375-50	1 $\frac{3}{8}$ O.D., 1.109T I.D., 0.2550 Depth, Also Available In Non-Magnetic (N) Material, Series 1-4
		1976-82	SB1500-50	1 $\frac{1}{2}$ O.D., 1.203T I.D., 0.2800 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, Series 5-12
Valve	Int	1976-79	10087	1.673 Head Diameter, Square Groove, Series 5-9
Keeper	Both	1976-82	121-1047	1 SQ Bead Type
Stem Seal	Both	1972-82	122-1119	Positive Type, Viton Material, Ring & Spring Style
Guide	Int	1976-82	140-7713	0.3145 I.D., 1.810 Length, 0.4745 O.D.
	Exh	1976-82	140-7714	0.3145 I.D., 2.160 Length, 0.4745 O.D., +2 O/S Available
	Both	1972-75	140-7395	0.3145 I.D., 1.990 Length, 0.4750 O.D., W/ Snap Ring

1950cc, (1.9L), SOHC, GAS, CARB, 8 Valve, Vin A, ""Isuzu""
1982-85 L4 119 CID

GMT119A 8
BORE - 87mm/3.43""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1982-85	SB1500-50	1 $\frac{1}{2}$ O.D., 1.203T I.D., 0.2800 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Keeper	Both	1982-85	121-1047	1 SQ Bead Type
Stem Seal	Both	1982-85	122-1119	Positive Type, Viton Material, Ring & Spring Style
Guide	Int	1982-85	140-7713	0.3145 I.D., 1.810 Length, 0.4745 O.D.
	Exh	1982-85	140-7714	0.3145 I.D., 2.160 Length, 0.4745 O.D., +2 O/S Available

122 C.I., (2.0L), OHV, GAS, CARB, 8 Valve, Vin Y
1983-84 L4 122 CID

GMT121Y 9
BORE - 86mm/3.39""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1983-84	SB1625-55	1 $\frac{5}{8}$ O.D., 1.333T I.D., 0.2370 Depth
	Exh	1983-84	SB1437-58	1 $\frac{7}{16}$ O.D., 1.095T I.D., 0.2370 Depth
Keeper	Both	1983-84	121-1021	1 RD Bead Type
Stem Seal	Int	1983-84	122-1052	Positive Type, Viton Material, Ring & Band Style
	Exh	1983-84	122-1053	Positive Type, Viton Material, Ring & Band Style, Black Color Seal
Guide	Both	1983-84	140-9705	0.3155 I.D., 2.000 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9705U)
Spring	Both	1983-84	160-1009	1.910 Length, W/ Damper
Lifter	Both	1983-84	VL117RH	Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train.
		1983-84	VL73	Hydraulic Type
Rocker Components	Both	1983-84	181-1016	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 10mm Nut
		1983-84	183-1015	Smooth Ball, 10mm, Use W/ Metric Threaded Rocker Arm Stud
		1983-84	184-1025	Stud, 10mm, Adjustable
		1983-84	184-1032	Nut, 10mm, Adjustable

122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin C, ""J20A Suzuki""
1999-03 L4 122 CID

GMT2.0-DC 10
BORE - 84.1mm/3.31""

PART		YEARS	PART NO.	NOTES
Valve	Int	1999-03	10786	1.297 Head Diameter
	Exh	1999-03	10787S	1.102 Head Diameter, Stellite Face
Keeper	Both	1999-03	121-1099	1 RD Bead Type
Stem Seal	Both	1999-03	122-1246	Positive Type, Viton Material, Metal Clad Style

GM TRUCK / PASSENGER TRUCK (Cont'd)

10 122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin C, ""J20A Suzuki"" GMT2.0-DC
 (cont.) 1999-03 L4 122 CID BORE - 84.1mm/3.31""

PART	YEARS	PART NO.	NOTES
Guide	Both	1999-03 140-3127	0.2365 I.D., 1.380 Length, 0.4367 O.D., W/ Counterbore
Lifter	Both	1999-03 VL120	Hydraulic Bucket Type
Head Saver Shim		1999-03 230-2159	New Hgt. 4.798-4.800; Min. Hgt. N/A

11 1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 3, L0A, ""Nissan"" GMT2.0-L0A
 2015-18 L4 122 CID BORE - 84mm/3.310""

PART	YEARS	PART NO.	NOTES
Valve	Int	2015-18 13398	1.337 Head Diameter
Keeper	Both	2015-18 121-1064	1 RD Bead Type
Stem Seal	Both	2015-18 122-1162	Positive Type, Viton Material, Metal Clad Style
Spring	Int	2015-18 160-1658	1.927 Length, Conical
	Exh	2015-18 160-1659	2.040 Length, Conical

12 122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin X, LTG, ""Ecotec TURBO"" GMT2.0-LTG
 2016-20 L4 122 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES
Valve	Int	2016-20 13441	1.437 Head Diameter
Keeper	Both	2016-20 121-1127	1 RD Bead Type
Stem Seal	Int	2018-20 122-1418	Positive Type, Viton Material, Top Hat Style
	Exh	2018-20 122-1495	Positive Type, Viton Material, Top Hat Style
	Both	2016-17 122-1495	Positive Type, Viton Material, Top Hat Style
Spring	Both	2016-20 160-1588	1.729 Length, Conical
Lifter	Both	2016-20 VL175	Hydraulic Lash Adjuster Type

13 2196cc, (2.2L), OHV, DIESEL, FI, 8 Valve, Vin S, ""Isuzu"" GMT2.2-ID
 1982-85 L4 134 CID BORE - 87.5mm/3.44""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1981-84 SB1625-55	1 ⁵ / ₁₆ O.D., 1.333T I.D., 0.2370 Depth
	Exh	1981-84 SB1437-58	1 ⁷ / ₁₆ O.D., 1.095T I.D., 0.2370 Depth
Valve	Int	1981-84 10216	1.575 Head Diameter
	Exh	1981-84 10217	1.339 Head Diameter
Stem Seal	Both	1981-84 122-1137	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1981-84 140-7656	0.3145 I.D., 1.970 Length, 0.5528 O.D.

14 134 C.I., (2.2L), OHV, FLEX, GAS, FI, 8 Valve, Vin 4, 5, H, ""Vortec"" GMT134
 1994-03 L4 134 CID BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1994-03 SB1812-55	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., 0.2780 Depth
	Exh	1994-03 SB1562-66	1 ⁹ / ₁₆ O.D., 1.265T I.D., 0.2800 Depth
Valve	Int	1994-97 01736	1.732 Head Diameter, 5.465 Overall Length
		1998-03 01902	1.732 Head Diameter, 0.020 Shorter than OEM., W/ .2746 Stem Dia., 5.265 Overall Length.
	Exh	1994-97 01737	1.457 Head Diameter, 5.142 Overall Length
		1998-03 01903	1.457 Head Diameter, 0.020 Shorter than OEM., W/ .2738 Stem Dia., 4.980 Overall Length.
Keeper	Both	1994-03 121-1090	1 RD Bead Type
Stem Seal	Both	1994-97 122-1236	Positive Type, Viton Material, Ring & Band Style
		1998-03 122-1324	Positive Type, Viton Material, Top Hat Style
Guide	Int	1994-97 140-8536	0.2757 I.D., 2.770 Length, 0.5828 O.D.
	Exh	1994-97 140-8535	0.2757 I.D., 2.320 Length, 0.5828 O.D.

(Cont'd) GM TRUCK / PASSENGER TRUCK**134 C.I., (2.2L), OHV, FLEX, GAS, FI, 8 Valve, Vin 4, 5, H, ""Vortec""**
1994-03 L4 134 CID**GMT134 14**
BORE - 89mm/3.50"" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Both 1998-03	140-3009	0.2763 I.D.,2.289 Length,0.5110 O.D.,NOTE: Some Castings May Require The Use of a +2 O/S (140-3009+2) W/ .513 O.D. As The Standard Replacement.
Spring	Both 1994-97 1998-03	160-1267 160-1436	1.960 Length,Conical 1.900 Length,Conical
Lifter	Both 1994-03	VL138	Hydraulic Roller Type
Rocker Components	Both 1994-97	181-1063	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) Nut
Push Rod	Both 1994-97 1998-03	192-1513 190-1539	7.458 Length 7.515 Length
Head Bolt Set	1994-97 1998-03	220-1025 220-1088	Torque To Yield,VIN 4, Services Engine Torque To Yeild,Services Engine
Head Saver Shim	1994-97 1998-03	230-2021 230-2115	New Hgt.- 5.3150 - 5.3200; Min. Hgt.- 5.3050 New Hgt.- 5.3150 - 5.3200; Min. Hgt.- 5.3050

134 C.I., (2.2L), DOHC, GAS, FI, 16 Valve, Vin D, L61, ""Ecotec TURBO""
2002-07 L4 134 CID**GMT2.2-L61 15**
BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 2002-07 Exh 2002-07	SB1437-69 SB1250-50	17/16 O.D.,1.140T I.D.,0.2370 Depth,NOTE: Seat May Need To Be Machined .015""-.020"" To Achieve Correct Depth 1¼ O.D.,0.965T I.D.,¼ Depth,NOTE: Seat May Need To Be Machined .015""-.020"" To Achieve Correct Depth
Valve	Int 2002-07 Exh 2002-06 2007-07	01997 02010S 02010	1.382 Head Diameter 1.185 Head Diameter,Stellite Face 1.185 Head Diameter
Keeper	Both 2002-07	121-1098	3 RD Bead Type
Stem Seal	Both 2002-07	122-1355	Positive Type,Viton Material,Top Hat Style
Guide	Both 2002-07	140-3029	0.2365 I.D.,1.420 Length,0.3950 O.D.,NOTE: May Require +2 O/S (140-3029+2) Due To Factory Installed O/S Guide.
Spring	Both 2002-07	160-1508	1.678 Length
Lifter	Both 2002-07	VL175	Hydraulic Lash Adjuster Type
Head Bolt Set	2002-07	220-1100	Torque To Yield,Services Engine
Head Saver Shim	2002-07	230-2135	New Hgt. - 5.080 - 5.085

145 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin C, W, LAF, ""Ecotec""
2010-11 L4 145 CID**GMT2.4-LAF 16**
BORE - 88mm/3.46""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 2010-11	SB1250-50	1¼ O.D.,0.965T I.D.,¼ Depth,NOTE: Seat May Need To Be Machined .015""-.020"" To Achieve Correct Depth
Valve	Int 2010-11 Exh 2010-11	13293 02010	1.382 Head Diameter 1.185 Head Diameter
Keeper	Both 2010-11	121-1098	3 RD Bead Type
Stem Seal	Both 2010-11	122-1355	Positive Type,Viton Material,Top Hat Style
Guide	Both 2010-11	140-3029	0.2365 I.D.,1.420 Length,0.3950 O.D.,NOTE: May Require +2 O/S (140-3029+2) Due To Factory Installed O/S Guide.
Spring	Both 2010-11	160-1508	1.678 Length
Lifter	Both 2010-11	VL175	Hydraulic Lash Adjuster Type

GM TRUCK / PASSENGER TRUCK (Cont'd)

17 145 C.I., (2.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin Z, LAT, ""Ecotec Hybrid""

GMT2.4-LAT

2007-09

L4 145 CID

BORE - 88mm/3.46""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2007-09	SB1437-69	1 ⁷ / ₁₆ O.D., 1.140T I.D., 0.2370 Depth, NOTE: Seat May Need To Be Machined .015""-.020"" To Achieve Correct Depth
	Exh	2007-09	SB1250-50	1 ¹ / ₄ O.D., 0.965T I.D., 1/4 Depth, NOTE: Seat May Need To Be Machined .015""-.020"" To Achieve Correct Depth
Valve	Int	2007-09	01997	1.382 Head Diameter
	Exh	2007-09	02010	1.185 Head Diameter
Keeper	Both	2007-09	121-1098	3 RD Bead Type
Stem Seal	Both	2007-09	122-1355	Positive Type, Viton Material, Top Hat Style
Guide	Both	2007-09	140-3029	0.2365 I.D., 1.420 Length, 0.3950 O.D., NOTE: May Require +2 O/S (140-3029+2) Due To Factory Installed O/S Guide.
Spring	Both	2007-09	160-1508	1.678 Length
Lifter	Both	2007-09	VL175	Hydraulic Lash Adjuster Type

18 145 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin P, LE5, ""Ecotec""

GMT2.4-LE5

2008-09

L4 145 CID

BORE - 88mm/3.46""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2008-09	SB1437-69	1 ⁷ / ₁₆ O.D., 1.140T I.D., 0.2370 Depth, NOTE: Seat May Need To Be Machined .015""-.020"" To Achieve Correct Depth
	Exh	2008-09	SB1250-50	1 ¹ / ₄ O.D., 0.965T I.D., 1/4 Depth, NOTE: Seat May Need To Be Machined .015""-.020"" To Achieve Correct Depth
Valve	Int	2008-09	01997	1.382 Head Diameter
	Exh	2008-09	02010	1.185 Head Diameter
Keeper	Both	2008-09	121-1098	3 RD Bead Type
Stem Seal	Both	2008-09	122-1355	Positive Type, Viton Material, Top Hat Style
Guide	Both	2008-09	140-3029	0.2365 I.D., 1.420 Length, 0.3950 O.D., NOTE: May Require +2 O/S (140-3029+2) Due To Factory Installed O/S Guide.
Spring	Both	2008-09	160-1508	1.678 Length
Lifter	Both	2008-09	VL175	Hydraulic Lash Adjuster Type
Head Saver Shim		2008-09	230-2180	New Hgt. - 5.085; Min. Hgt. - 5.075

19 145 C.I., (2.4L), DOHC, FLEX, GAS, FI, 16 Valve, Vin K, LEA, ""Ecotec""

GMT2.4-LEA

2012-17

L4 145 CID

BORE - 88mm/3.46""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2012-17	13293	1.382 Head Diameter
	Exh	2012-17	02010	1.185 Head Diameter
Keeper	Both	2012-17	121-1098	3 RD Bead Type
Stem Seal	Both	2012-17	122-1355	Positive Type, Viton Material, Top Hat Style
Guide	Both	2012-17	140-3029	0.2365 I.D., 1.420 Length, 0.3950 O.D., NOTE: May Require +2 O/S (140-3029+2) Due To Factory Installed O/S Guide.
Spring	Both	2012-17	160-1508	1.678 Length
Lifter	Both	2012-17	VL175	Hydraulic Lash Adjuster Type

20 151 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin E, ""Pontiac""

GMT151E

1985-91

L4 151 CID

BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1985-91	SB1812-4	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

151 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin E, ""Pontiac""
1985-91 L4 151 CID

GMT151E **20**
BORE - 101.6mm/4.00"" (cont.)

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1985-91	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int 1987-88	01551	1.720 Head Diameter, W/ .3135 Stem Dia. Round Groove, 4.394 Overall Length, +15 O/S Stem Available
	1989-91	01592	1.720 Head Diameter, W/ .3135 Stem Dia. Round Groove, 4.591 Overall Length, +15 O/S Stem Available
	Exh 1985-86	01814	1.500 Head Diameter, 0.020 Shorter Than OEM, Square Groove, W/ .3415 Stem Dia.
	1987-88	01550+15	1.500 Head Diameter, Optional +15 O/S Stem W/ .3282T Stem Dia., Round Groove, 4.355 Overall Length; NOTE: 01550 Std. Stem Valve W/ .3132T NOT AVAILABLE
	1989-91	01591	1.500 Head Diameter, W/ .3133T Stem Dia. Round Groove, 4.541 Overall Length, +15 O/S Stem Available
Keeper	Both 1985-86	121-1003	1 SQ Bead Type
	1987-91	121-1021	1 RD Bead Type
Stem Seal	Both 1985-86	122-1037	Umbrella Type, Poly Material, Umbrella Style, W/ .341 Stem Dia.
	1985-86	122-1043	O-Ring Type, Nitrile Material, O-Ring Style, W/ .341 Stem Dia.
	1985-86	122-1048	Positive Type, Poly Material, 2-Ring Style, W/ .341 Stem Dia. & Use W/ Factory Guide Boss
	1985-86	122-1270	Umbrella Type, Viton Material, Umbrella Style
	1987-91	122-1077	Positive Type, Viton Material, Ring & Band Style
Guide	Both 1985-86	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
	1985-86	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	1987-91	140-8040	0.3150 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both 1987-88	160-1099	1.780 Length, W/ Shroud
	1988-91	160-1083	2.093 Length, W/ External Shroud
	1988-91	160-1475	2.010 Length, W/ Damper, Alternative Version To 160-1083, May Require Spring Seat
Lifter	Both 1985-91	VL115	Hydraulic Roller Type, Always Install Oil Hole Up To Valley On ""V"" Style Engines.
Rocker Components	Both 1985-91	181-1017	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball
Push Rod	Both 1985-86	192-1462	8.383 Length, W/ Roller Lifters
	1987-91	192-1480	8.272 Length, W/ Roller Lifters
Head Bolt Set	1985-91	220-1015	Torque To Yield, Services Engine

151 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin A, ""Pontiac""
1991-93 L4 151 CID

GMT151A **21**
BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1991-93	SB1812-4	1 ¹³ / ₁₆ O.D., 1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh 1991-93	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int 1991-93	01592	1.720 Head Diameter, W/ .3135 Stem Dia. Round Groove, 4.591 Overall Length, +15 O/S Stem Available
	Exh 1991-93	01591	1.500 Head Diameter, W/ .3133T Stem Dia. Round Groove, 4.541 Overall Length, +15 O/S Stem Available
Keeper	Both 1991-93	121-1021	1 RD Bead Type

GM TRUCK / PASSENGER TRUCK (Cont'd)

21 151 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin A, ""Pontiac"" GMT151A
 (cont.) 1991-93 L4 151 CID BORE - 101.6mm/4.00""

PART		YEARS	PART NO.	NOTES
Stem Seal	Both	1991-93	122-1077	Positive Type,Viton Material,Ring & Band Style
Guide	Both	1991-93	140-8040	0.3150 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1991-93 1991-93	160-1083 160-1475	2.093 Length,W/ External Shroud 2.010 Length,W/Damper,Alternative Version To 160-1083, May Require Spring Seat
Lifter	Both	1991-93	VL115	Hydraulic Roller Type,Always Install Oil Hole Up To Valley On ""V"" Style Engines.
Rocker Components	Both	1991-93	181-1017	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball
Push Rod	Both	1991-93	192-1480	8.272 Length,W/ Roller Lifters
Head Bolt Set		1991-93	220-1015	Torque To Yield,Services Engine

22 2500cc, (2.5L), DOHC, GAS, FI, 24 Valve, Vin 4, H25A, ""Suzuki"" GMT2.5-DC
 2001-04 V6 153 CID BORE - 84mm/3.31""

PART		YEARS	PART NO.	NOTES
Valve	Int Exh	2001-04 2001-04	10786 10787S	1.297 Head Diameter 1.102 Head Diameter,Stellite Face
Keeper	Both	2001-04	121-1099	1 RD Bead Type
Stem Seal	Both	2001-04	122-1246	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2001-04	140-3127	0.2365 I.D., 1.380 Length,0.4367 O.D.,W/ Counterbore
Lifter	Both	2001-04	VL120	Hydraulic Bucket Type

23 153 C.I., (2.5L), OHV, GAS, CARB, 8 Valve GMT153
 1963-65 L4 153 CID BORE - 98.4mm/3.88""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1963-65 1963-65	SB1812-3 SB1562-2	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth 1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ T I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int Exh	1963-65 1963-65 1963-65 1963-65 1963-65 1963-65	00399 01193 00400 01192 01206S 01646S	1.720 Head Diameter,+15 O/S Stem Available 1.720 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available 1.500 Head Diameter,+3 & +15 O/S Stem Available 1.500 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available 1.500 Head Diameter,Stellite Face,Optional Material & Chrome Plated, +15 O/S Stem Available 1.500 Head Diameter,Inconel, Stellite Face,W/ .3719 Stem Dia., LPG,
Keeper	Both	1963-65	121-1003	1 SQ Bead Type
Stem Seal	Both	1963-65 1963-65 1963-65 1963-65 1963-65	122-1014 122-1037 122-1043 122-1238 122-1270	Positive Type,Tef/Rub Material,1-Ring Style,Machine Guide To 0.562 O.D. Umbrella Type,Poly Material,Umbrella Style O-Ring Type,Nitrile Material,O-Ring Style Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems Umbrella Type,Viton Material,Umbrella Style
Guide	Int	1963-65 1963-65	140-5607 140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2) 0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)

(Cont'd) GM TRUCK / PASSENGER TRUCK

153 C.I., (2.5L), OHV, GAS, CARB, 8 Valve
1963-65 L4 153 CID

GMT153 23
BORE - 98.4mm/3.88" (cont.)

PART		YEARS	PART NO.	NOTES
Guide	Exh	1963-65	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1963-65	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1963-63	160-1117	2.030 Length,W/O Rotator, 1st Design
		1963-65	160-1125	2.050 Length,W/ Damper,2nd Design, W/O Rotator
Lifter	Both	1963-65	VL37	Hydraulic Type
Rocker Components	Both	1963-65	181-1012	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1963-65	183-1024	Smooth Ball, 3/8
		1963-65	184-1038	Nut, 3/8
Push Rod	Both	1963-65	192-1330	9.682 Length

153 C.I., (2.5L), DOHC, FLEX, GAS, FI, 16 Valve, Vin A, LCV, ""Ecotec""
2015-21 L4 153 CID

GMT2.5-LCV 24
BORE - 88mm/3.46"

PART		YEARS	PART NO.	NOTES
Valve	Int	2015-20	13441	1.437 Head Diameter
	Exh	2015-20	13442	1.142 Head Diameter
Keeper	Both	2015-20	121-1127	1 RD Bead Type
Stem Seal	Both	2015-20	122-1418	Positive Type,Viton Material,Top Hat Style
Spring	Both	2015-20	160-1588	1.729 Length,Conical
Lifter	Both	2015-20	VL175	Hydraulic Lash Adjuster Type,W/O DUAL FEED

169 C.I., (2.8L), DOHC, GAS, FI, 16 Valve, Vin 8, LK5, ""Atlas Vortec 2800""
2004-06 L4 169 CID

GMT2.8-LK5 25
BORE - 92.96mm/3.66"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	2004-06	SB1250-50	1¼ O.D.,0.965T I.D.,¼ Depth,NOTE: Optional ¼ Depth; Must Machine Insert To Achieve Correct Depth
		2004-06	SB1250-65	1¼ O.D.,1.030 I.D.,0.2150 Depth
Valve	Int	2004-06	01998	1.457 Head Diameter
	Exh	2004-06	01999	1.201 Head Diameter
Keeper	Both	2004-06	121-1098	3 RD Bead Type
Stem Seal	Both	2004-06	122-1349	Positive Type,Viton Material,Top Hat Style
Guide	Both	2004-06	140-8556	0.2355 I.D.,1.735 Length,0.4360 O.D.
Spring	Both	2004-06	160-1480	1.770 Length
Lifter	Both	2004-06	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2004-06	180-1323	Cam Follower
Head Bolt Set		2004-06	220-1101	Torque To Yield,Services Engine

170 C.I., (2.8L), DOHC, GAS, FI, 24 Valve, Vin 4, 6, LAU, ""High Feature V6 TURBO""
2010-11 V6 170 CID

GMT2.8-LAU 26
BORE - 89mm/3.50"

PART		YEARS	PART NO.	NOTES
Valve	Int	2010-11	13211	1.384 Head Diameter
	Exh	2010-11	13230	1.142 Head Diameter
Keeper	Both	2010-11	121-1127	1 RD Bead Type
Stem Seal	Both	2010-11	122-1418	Positive Type,Viton Material,Top Hat Style
Guide	Both	2010-11	140-3112	0.2365 I.D.,1.655 Length,0.4358 O.D.
Spring	Both	2010-11	160-1579	1.760 Length,Conical

GM TRUCK / PASSENGER TRUCK (Cont'd)

26 170 C.I., (2.8L), DOHC, GAS, FI, 24 Valve, Vin 4, 6, LAU, ""High Feature V6
 (cont.) TURBO""
 2010-11 V6 170 CID GMT2.8-LAU
 BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES
Lifter	Both	2010-11 VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2010-11 180-1323	Cam Follower

27 171 C.I., (2.8L), DOHC, DIESEL, FI, 16 Valve, Vin 1, LWN, ""Duramax
 TURBO""
 2016-21 L4 171 CID GMT2.8-LWN
 BORE - 94mm/3.70""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2016-20 121-1098	3 RD Bead Type
Stem Seal	Both	2016-20 122-1329	Positive Type,Viton Material,Metal Clad Style

28 173 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, Vin B
 1982-85 V6 173 CID GMT173-CA
 BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1982-85 SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1982-85 SB1437-3	1 ⁷ / ₁₆ O.D.,1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1982-85 01395	1.600 Head Diameter,0.341 Stem Dia.
	Exh	1982-85 01394	1.307 Head Diameter,0.341 Stem Dia.
Keeper	Both	1982-85 121-1003	1 SQ Bead Type
Stem Seal	Both	1982-85 122-1037	Umbrella Type,Poly Material,Umbrella Style
		1982-85 122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1982-85 122-1047	Positive Type,Poly Material,2-Ring Style
		1982-85 122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Both	1982-85 140-9560	0.3440 I.D.,2.000 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Cast Iron Heads
Lifter	Both	1982-85 VL94	Hydraulic Type
Rocker Components	Both	1982-85 181-1016	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 10mm Nut
		1982-85 183-1015	Smooth Ball, 10mm,Use W/ Metric Threaded Rocker Arm Stud
		1982-85 184-1025	Stud, 10mm,Adjustable
		1982-85 184-1032	Nut, 10mm,Adjustable
Push Rod	Both	1982-85 192-1444	6.162 Length
Head Saver Shim		1982-85 230-2025	New Hgt.- 3.5805 - 3.5950; Min. Hgt.- 3.5750, 2 Required

29 173 C.I., (2.8L), OHV, GAS, FI, 12 Valve, Vin R
 1986-93 V6 173 CID GMT173-FI
 BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1986-93 SB1812-4	1 ¹³ / ₁₆ O.D.,1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1986-93 SB1500-1	1 ¹ / ₂ O.D.,1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1986-93 01481	1.718 Head Diameter,+15 O/S Stem Available
	Exh	1986-93 01480	1.425 Head Diameter,+15 O/S Stem Available
Keeper	Both	1986-93 121-1003	1 SQ Bead Type
Stem Seal	Exh	1988-93 122-1075	Positive Type,Viton Material, Ring & Band Style
		1986-87 122-1037	Umbrella Type,Poly Material,Umbrella Style
		1986-87 122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1986-87 122-1270	Umbrella Type,Viton Material,Umbrella Style

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

173 C.I., (2.8L), OHV, GAS, FI, 12 Valve, Vin R
1986-93 V6 173 CID

GMT173-FI **29**
BORE - 89mm/3.50" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Both	1986-93	140-8112	0.3155 I.D.,2.085 Length,0.5530 O.D.,W/ Snap Ring,Aluminum Head, +2 O/S Available
		1986-93	140-9560	0.3440 I.D.,2.000 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Cast Iron Head
Lifter	Both	1986-93	VL94	Hydraulic Type
Rocker Components	Both	1986-93	181-1016	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 10mm Nut
		1986-93	183-1015	Smooth Ball, 10mm,Use W/ Metric Threaded Rocker Arm Stud
		1986-93	184-1025	Stud, 10mm,Adjustable
		1986-93	184-1032	Nut, 10mm,Adjustable
Push Rod	Both	1986-93	192-1444	6.162 Length
Head Saver Shim		1986-93	230-2025	New Hgt.- 3.5805 - 3.5950; Min. Hgt.- 3.5750, 2 Required

178 C.I., (2.9L), DOHC, GAS, FI, 16 Valve, Vin 9, LLV, ""Atlas Vortec 2900"" GMT2.9-LLV **30**
2007-12 L4 178 CID BORE - 95.5mm/3.76"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2007-12	13179	1.525 Head Diameter
	Exh	2007-12	13046	1.323 Head Diameter
Keeper	Both	2007-12	121-1098	3 RD Bead Type
Stem Seal	Both	2007-12	122-1394	Positive Type,Viton Material,Top Hat Style
Guide	Both	2007-12	140-8556	0.2355 I.D.,1.735 Length,0.4360 O.D.
Spring	Both	2007-12	160-1579	1.760 Length,Conical
Lifter	Both	2007-12	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2007-12	180-1323	Cam Follower
Head Bolt Set		2007-12	220-1101	Torque To Yield,Services Engine
Head Saver Shim		2007-12	230-2181	New Hgt. - N/A; Min. Hgt. - N/A

181 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin B
2002-03 V6 181 CID

GMT181B **31**
BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2002-03	10784	1.260 Head Diameter
	Exh	2002-03	02040S	1.142 Head Diameter,Recommended OEM Nickel Base Inconel Material, Stellite Face
		2002-03	22040S	1.142 Head Diameter,Alternative Austenitic Material, Stellite Face
Keeper	Both	2002-03	121-1098	3 RD Bead Type
Stem Seal	Both	2002-03	122-1329	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2002-03	140-3010	0.2362 I.D.,1.773 Length,0.3950 O.D.
	Exh	2002-03	140-3011	0.2362 I.D.,1.378 Length,0.3950 O.D.
Lifter	Both	2002-03	VL571	Hydraulic Bucket Type
Head Bolt Set		2002-03	220-1092	Torque To Yield,2 Required
Head Saver Shim		2002-03	230-2173	New Hgt. - 5.272 - 5.280; Min Hgt. - 5.272

182 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin Y, LF1, ""High Feature V6"" GMT3.0-LF1 **32**
2010-11 V6 182 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2010-11	13211	1.384 Head Diameter
	Exh	2010-11	13212	1.205 Head Diameter
Keeper	Both	2010-11	121-1127	1 RD Bead Type

GM TRUCK / PASSENGER TRUCK (Cont'd)

32 182 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin Y, LF1, ""High Feature V6"" GMT3.0-LF1
 (cont.) 2010-11 V6 182 CID BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	2010-11	122-1418	Positive Type,Viton Material,Top Hat Style
Guide	Both	2010-11	140-3112	0.2365 I.D.,1.655 Length,0.4358 O.D.
Spring	Both	2010-11	160-1588	1.729 Length,Conical
Lifter	Both	2010-11	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2010-11	180-1323	Cam Follower

33 182 C.I., (3.0L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 5, LFW, ""High Feature V6"" GMT3.0-LFW
 2011-12 V6 182 CID BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2011-12	13211	1.384 Head Diameter
	Exh	2011-12	13212	1.205 Head Diameter
Keeper	Both	2011-12	121-1127	1 RD Bead Type
Stem Seal	Both	2011-12	122-1418	Positive Type,Viton Material,Top Hat Style
Guide	Both	2011-12	140-3112	0.2365 I.D.,1.655 Length,0.4358 O.D.
Spring	Both	2011-12	160-1588	1.729 Length,Conical
Lifter	Both	2011-12	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2011-12	180-1323	Cam Follower

34 189 C.I., (3.1L), OHV, GAS, FI, 12 Valve, Vin D GMT189D
 1990-95 V6 189 CID BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1990-95	SB1812-4	1 ¹³ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1990-95	SB1500-1	1 ¹ / ₂ O.D.,1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1990-95	01481	1.718 Head Diameter,+15 O/S Stem Available
	Exh	1990-95	01480	1.425 Head Diameter,+15 O/S Stem Available
Keeper	Both	1990-95	121-1003	1 SQ Bead Type
Stem Seal	Both	1990-95	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1990-95	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1990-95	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Both	1990-95	140-9560	0.3440 I.D.,2.000 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1990-95	160-1076	2.110 Length
Lifter	Both	1990-95	VL94	Hydraulic Type
Rocker Components	Both	1990-95	181-1016	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 10mm Nut
		1990-95	183-1015	Smooth Ball, 10mm,Use W/ Metric Threaded Rocker Arm Stud
		1990-95	184-1025	Stud, 10mm,Adjustable
		1990-95	184-1032	Nut, 10mm,Adjustable
		1990-95	184-1033	Nut, 8mm,Non-Adjustable
Push Rod	Both	1990-95	192-1444	6.162 Length

35 194 C.I., (3.2L), OHV, GAS, CARB, 12 Valve GMT194
 1963-66 L6 194 CID BORE - 90.5mm/3.56""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1963-66	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth

(Cont'd) GM TRUCK / PASSENGER TRUCK

194 C.I., (3.2L), OHV, GAS, CARB, 12 Valve
1963-66 L6 194 CID

GMT194 35
BORE - 90.5mm/3.56" (cont.)

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1963-66	SB1562-2	1 ⁹ / ₁₆ O.D., 1 ¹⁵ / ₁₆ T I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1963-66	00399	1.720 Head Diameter, +15 O/S Stem Available
		1963-66	01193	1.720 Head Diameter, Opt. Chrome Plated, +3 & +15 O/S Stem Available
	Exh	1963-66	00400	1.500 Head Diameter, +3 & +15 O/S Stem Available
		1963-66	01192	1.500 Head Diameter, Opt. Chrome Plated, +3 & +15 O/S Stem Available
		1963-66	01206S	1.500 Head Diameter, Stellite Face, Optional Material & Chrome Plated, +15 O/S Stem Available
Keeper	Both	1963-66	121-1003	1 SQ Bead Type
Stem Seal	Both	1963-66	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1963-66	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1963-66	122-1048	Positive Type, Poly Material, 2-Ring Style, W/ .341 Stem Dia. & Use W/ Factory Guide Boss
		1963-66	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ 1 ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		1963-66	122-1270	Umbrella Type, Viton Material, Umbrella Style
Guide	Int	1963-66	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1963-66	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1963-66	140-5606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1963-66	140-9606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1963-66	160-1148	1.900 Length
Lifter	Both	1963-66	VL117RH	Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train.
		1963-66	VL73	Hydraulic Type
Rocker Components	Both	1963-66	181-1012	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1963-66	183-1024	Smooth Ball, 3/8
		1963-66	184-1038	Nut, 3/8
Push Rod	Both	1963-66	192-1330	9.682 Length

200 C.I., (3.3L), OHV, GAS, CARB, 12 Valve, Vin M
1978-79 V6 200 CID

GMT200M 36
BORE - 89mm/3.50" (cont.)

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1978-79	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ¹⁷ / ₁₆ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1978-79	SB1437-2	1 ¹⁷ / ₁₆ O.D., 1 ⁷ / ₃₂ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Keeper	Both	1978-79	121-1003	1 SQ Bead Type
Stem Seal	Both	1978-79	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1978-79	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1978-79	122-1048	Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss
		1978-79	122-1270	Umbrella Type, Viton Material, Umbrella Style
Guide	Int	1978-79	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)

GM TRUCK / PASSENGER TRUCK (Cont'd)

36 200 C.I., (3.3L), OHV, GAS, CARB, 12 Valve, Vin M GMT200M
 (cont.) 1978-79 V6 200 CID BORE - 89mm/3.50"

PART		YEARS	PART NO.	NOTES
Guide	Int	1978-79	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1978-79	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
Lifter	Both	1978-79	VL37	Hydraulic Type
Rocker Components	Both	1978-79	180-1228	Rocker Arm
		1978-79	180-1283	Rocker Arm, Rail Type,Optional
		1978-79	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1978-79	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional
		1978-79	183-1017	Smooth Ball, 3/8
		1978-79	183-1032	Grooved Ball, 3/8
Push Rod	Both	1978-79	192-1331	7.793 Length

37 207 C.I., (3.4L), OHV, GAS, FI, 12 Valve, Vin E, F GMT207EF
 1996-09 V6 207 CID BORE - 92mm/3.62"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1996-97	SB1812-5	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ I.D.,1/4 Depth,Also Available In Non-Magnetic (N) Material
		1998-09	SB1812-1	1 ¹³ / ₁₆ O.D.,1 ⁹ / ₁₆ I.D.,1/4 Depth,Also Available In Non-Magnetic (N) Material
	Exh	1996-09	SB1500-3	1 ¹ / ₂ O.D.,1 ¹ / ₄ I.D.,1/4 Depth,+3 O/S Available
Valve	Int	1996-97	01810	1.718 Head Diameter
		1998-09	01929	1.760 Head Diameter
	Exh	1996-09	01811	1.425 Head Diameter
Keeper	Both	1996-09	121-1085	1 RD Bead Type
Stem Seal	Both	1996-99	122-1314	Positive Type,Viton Material,Top Hat Style
		2000-09	122-1336	Positive Type,Viton Material,Top Hat Style
Guide	Both	1996-99	140-8112	0.3155 I.D.,2.085 Length,0.5530 O.D.,W/ Snap Ring,+2 O/S Available
		2000-09	140-3067	0.3155 I.D.,2.085 Length,0.5525 O.D.,+2 O/S Also Available
Spring	Both	1996-09	160-1363	1.940 Length,Conical
Lifter	Both	1996-09	VL138	Hydraulic Roller Type
Rocker Components	Both	2003-06	180-1329	Rocker Arm, Roller Pivot Assy., W/8mm Bolt
Push Rod	Int	1996-06	190-1534	5.750 Length,Hardened
	Exh	1996-06	190-1535	6.074 Length,Hardened
Head Bolt Set		1996-09	220-1085	Torque To Yield,Services Engine
Head Saver Shim		1996-07	230-2132	New Hgt. - 3.585 - 3.595; Min. Hgt. - 3.575,2 Required

38 211 C.I., (3.5L), DOHC, GAS, FI, 20 Valve, Vin 6, L52, ""Atlas Vortec 3500"" GMT3.5-L52
 2004-06 L5 211 CID BORE - 92.96mm/3.66"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2004-06	SB1562-57	1 ⁹ / ₁₆ O.D.,1.246T I.D.,0.2300 Depth,Seat May Need To Be Machined To Achieve Correct Depth
	Exh	2004-06	SB1250-50	1 ¹ / ₄ O.D.,0.965T I.D.,1/4 Depth,NOTE: Optional 1/4 Depth; Must Machine Insert To Achieve Correct Depth
		2004-06	SB1250-65	1 ¹ / ₄ O.D.,1.030 I.D.,0.2150 Depth
Valve	Int	2004-06	01998	1.457 Head Diameter
	Exh	2004-06	01999	1.201 Head Diameter

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

211 C.I., (3.5L), DOHC, GAS, FI, 20 Valve, Vin 6, L52, ""Atlas Vortec 3500"" GMT3.5-L52 **38**
2004-06 L5 211 CID BORE - 92.96mm/3.66"" (cont.)

PART	YEARS	PART NO.	NOTES
Keeper	Both	2004-06 121-1098	3 RD Bead Type
Stem Seal	Both	2004-06 122-1349	Positive Type,Viton Material,Top Hat Style
Guide	Both	2004-06 140-8556	0.2355 I.D.,1.735 Length,0.4360 O.D.
Spring	Both	2004-06 160-1480	1.770 Length
Lifter	Both	2004-06 VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2004-06 180-1323	Cam Follower
Head Bolt Set		2004-06 220-1101	Torque To Yield,Services Engine
Head Saver Shim		2004-06 230-2183	New Hgt. - N/A; Min. Hgt. - N/A

3474cc, (3.5L), SOHC, GAS, FI, 24 Valve, Vin 4, J35A3, ""Honda"" GMT3.5-SC24V **39**
2004-07 V6 212 CID BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2004-07 10778 2004-07 10779	1.378 Head Diameter 1.181 Head Diameter
Keeper	Both	2004-07 121-1060	1 RD Bead Type
Stem Seal	Int Exh	2004-07 122-1201 2004-07 122-1202	Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style
Guide	Int Exh	2004-07 140-8158 2004-07 140-8157	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring 0.2173 I.D.,2.130 Length,0.4358 O.D.
Head Saver Shim		2004-07 230-2172	New Hgt. - 4.762 - 4.766; Min. Hgt. - 4.758

213 C.I., (3.5L), OHV, GAS, FI, 12 Valve, Vin L, LX9 GMT3.5 LX9 **40**
2005-07 V6 213 CID BORE - 93.98mm/3.70""

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2005-07 02172 2005-07 02173	1.760 Head Diameter 1.425 Head Diameter
Keeper	Both	2005-07 121-1085	1 RD Bead Type
Stem Seal	Both	2005-07 122-1336	Positive Type,Viton Material,Top Hat Style
Lifter	Both	2005-07 VL138	Hydraulic Roller Type
Rocker Components	Both	2005-07 180-1329	Rocker Arm, Roller Pivot Assy., W/8mm Bolt
Push Rod	Int Exh	2005-07 190-1534 2005-07 190-1535	5.750 Length,Hardened 6.074 Length,Hardened
Head Bolt Set		2005-07 220-1122	Torque To Yield,Services Engine

213 C.I., (3.5L), OHV, GAS, FI, 12 Valve, Vin N, LZ4 GMT3.5-LZ4 **41**
2008-09 V6 213 CID BORE - 99mm/3.90""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2008-09 SB1937-55	1 ¹⁵ / ₁₆ O.D.,1.640T I.D.,0.2900 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int Exh	2008-09 13043 2008-09 13044	1.870 Head Diameter 1.523 Head Diameter
Keeper	Both	2008-09 121-1085	1 RD Bead Type
Stem Seal	Int Exh	2008-09 122-1337 2008-09 122-1338	Positive Type,Viton Material,Top Hat Style Positive Type,Viton Material,Top Hat Style
Guide	Both	2008-09 140-3053 2008-09 140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2) 0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version

GM TRUCK / PASSENGER TRUCK (Cont'd)

41 213 C.I., (3.5L), OHV, GAS, FI, 12 Valve, Vin N, LZ4 GMT3.5-LZ4
 (cont.) 2008-09 V6 213 CID BORE - 99mm/3.90"

PART	YEARS	PART NO.	NOTES	
Guide	Both	2008-09	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2008-09	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2008-09	160-1607	2.081 Length,Conical, W/ External Shroud
Lifter	Both	2008-09	VL138	Hydraulic Roller Type
Rocker Components	Both	2008-09	180-1331	Rocker Arm, Roller Pivot Assy., W/8mm Bolt
Push Rod	Int	2008-09	190-1546	5.879 Length
	Exh	2008-09	190-1547	6.168 Length
Head Saver Shim		2008-09	230-2182	New Hgt. - N/A; Min. Hgt. - N/A

42 216 C.I., (3.5L), OHV, GAS, CARB, 12 Valve, ""Chevrolet"" GMT216
 1937-53 L6 216 CID BORE - 88.9mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1937-53	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1937-53	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Exh	1950-53	00400	1.500 Head Diameter,+3 & +15 O/S Stem Available
		1950-53	01192	1.500 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
		1950-53	01206S	1.500 Head Diameter,Stellite Face,Optional Material & Chrome Plated, +15 O/S Stem Available
Keeper	Both	1950-53	121-1003	1 SQ Bead Type
Stem Seal	Both	1950-53	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	1938-40	140-1453	0.3435 I.D.,3.219 Length,0.5655 O.D.
		1941-53	140-1732	0.3435 I.D.,3.344 Length,0.5648 O.D.
	Exh	1938-40	140-1476	0.3432 I.D.,2.188 Length,0.5655 O.D.
		1941-53	140-1527	0.3435 I.D.,2.438 Length,0.5650 O.D.
Spring	Both	1938-53	160-1126	2.160 Length

43 217 C.I., (3.6L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 3, LFX, ""High Feature V6"" GMT3.6-LFX
 2012-17 V6 217 CID BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2012-17	13333	1.510 Head Diameter
	Exh	2012-17	13212	1.205 Head Diameter
Keeper	Both	2012-17	121-1127	1 RD Bead Type
Stem Seal	Both	2012-17	122-1418	Positive Type,Viton Material,Top Hat Style
Guide	Both	2012-17	140-3112	0.2365 I.D.,1.655 Length,0.4358 O.D.
Spring	Both	2012-12	160-1579	1.760 Length,Conical
		2013-17	160-1588	1.729 Length,Conical
Lifter	Both	2012-17	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2012-17	180-1323	Cam Follower

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

217 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin W, LFY, ""High Feature V6"" GMT3.6-LFY 44
2018-21 V6 217 CID BORE - 94mm/3.70""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2018-20	13333	1.510 Head Diameter
	Exh	2018-20	13212	1.205 Head Diameter
Keeper	Both	2018-20	121-1127	1 RD Bead Type
Stem Seal	Both	2018-20	122-1418	Positive Type,Viton Material,Top Hat Style
Spring	Both	2018-20	160-1588	1.729 Length,Conical
Lifter	Both	2018-20	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2018-20	180-1323	Cam Follower

217 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin D, LLT, ""High Feature V6"" GMT3.6-LLT 45
2009-17 V6 217 CID BORE - 94mm/3.70""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2009-10	13081	1.456 Head Diameter
		2011-17	13334	1.457 Head Diameter
	Exh	2009-10	13082	1.205 Head Diameter
		2011-17	13335	1.205 Head Diameter
Keeper	Both	2009-17	121-1127	1 RD Bead Type
Stem Seal	Both	2009-17	122-1418	Positive Type,Viton Material,Top Hat Style
Guide	Both	2009-17	140-3112	0.2365 I.D.,1.655 Length,0.4358 O.D.
Spring	Both	2009-11	160-1579	1.760 Length,Conical
		2012-17	160-1588	1.729 Length,Conical
Lifter	Both	2009-17	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2009-17	180-1323	Cam Follower

217 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin 7, LY7, ""High Feature V6"" GMT3.6-LY7 46
2004-10 V6 217 CID BORE - 94mm/3.70""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2004-10	13081	1.456 Head Diameter
	Exh	2004-10	13082	1.205 Head Diameter
Keeper	Both	2004-10	121-1127	1 RD Bead Type
Stem Seal	Both	2004-10	122-1418	Positive Type,Viton Material,Top Hat Style
Guide	Both	2004-10	140-3112	0.2365 I.D.,1.655 Length,0.4358 O.D.
Spring	Both	2004-10	160-1588	1.729 Length,Conical
Lifter	Both	2004-10	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2004-10	180-1323	Cam Follower

222 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin S, LGX, ""High Feature V6"" GMT3.6-LGX 47
2017-21 V6 222 CID BORE - 95mm/3.74""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2017-20	13467	1.551 Head Diameter
	Exh	2017-20	13468	1.240 Head Diameter
Keeper	Both	2017-20	121-1098	3 RD Bead Type
Stem Seal	Both	2017-20	122-1509	Positive Type,Viton Material,Top Hat Style
Spring	Both	2017-20	160-1700	1.783 Length,Conical
Lifter	Both	2017-20	VL175	Hydraulic Lash Adjuster Type,W/O Dual Feed

GM TRUCK / PASSENGER TRUCK (Cont'd)

48 222 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin N, LGZ, ""High Feature V6"" GMT3.6-LGZ
 2017-21 V6 222 CID BORE - 95mm/3.74""

PART		YEARS	PART NO.	NOTES
Valve	Int	2017-20	13467	1.551 Head Diameter
	Exh	2017-20	13468	1.240 Head Diameter
Keeper	Both	2017-20	121-1098	3 RD Bead Type
Stem Seal	Both	2017-20	122-1509	Positive Type,Viton Material,Top Hat Style
Spring	Both	2017-20	160-1700	1.783 Length,Conical
Lifter	Both	2017-20	VL175	Hydraulic Lash Adjuster Type

49 223 C.I., (3.7L), DOHC, GAS, FI, 20 Valve, Vin E, LLR, ""Atlas Vortec 3700"" GMT3.7-LLR
 2007-12 L5 223 CID BORE - 95.5mm/3.76""

PART		YEARS	PART NO.	NOTES
Valve	Int	2007-12	13179	1.525 Head Diameter
	Exh	2007-12	13046	1.323 Head Diameter
Keeper	Both	2007-12	121-1098	3 RD Bead Type
Stem Seal	Both	2007-12	122-1394	Positive Type,Viton Material,Top Hat Style
Guide	Both	2007-12	140-8556	0.2355 I.D., 1.735 Length,0.4360 O.D.
Spring	Both	2007-12	160-1579	1.760 Length,Conical
Lifter	Both	2007-12	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2007-12	180-1323	Cam Follower
Head Bolt Set		2007-12	220-1101	Torque To Yield,Services Engine
Head Saver Shim		2007-12	230-2184	New Hgt. - N/A; Min. Hgt. - N/A

50 229 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 9, K GMT229
 1980-84 V6 229 CID BORE - 94.9mm/3.74""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1980-84	SB1937-1	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., 1/4 Depth
	Exh	1980-84	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ¹⁵ / ₁₆ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1980-84	01393	1.840 Head Diameter, +3 & +15 O/S Stem Available
	Exh	1980-84	01192	1.500 Head Diameter, +3 & +15 O/S Stem Available
Keeper	Both	1980-84	121-1003	1 SQ Bead Type, W/ .341 Stem Dia.
Stem Seal	Int	1980-84	122-1075	Positive Type, Viton Material, Ring & Band Style
	Exh	1980-84	122-1233	Umbrella Type, Nylon Material, Umbrella Style
	Both	1980-84	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1980-84	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
	1980-84	122-1048	Positive Type, Poly Material, 2-Ring Style, W/ .341 Stem Dia. & Use W/ Factory Guide Boss	
	1980-84	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ 1 ¹¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems	
1980-84	122-1270	Umbrella Type, Viton Material, Umbrella Style		
Guide	Int	1980-84	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
	Exh	1980-84	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1980-84	160-1144	2.048 Length, W/ Damper
		1980-84	160-1144HP	2.023 Length, W/ Damper, Hi-Perf.
		1980-84	160-1407	2.140 Length, W/ Damper, Optional Hi-Perf.
Rotator	Exh	1980-84	161-1012	

(Cont'd) GM TRUCK / PASSENGER TRUCK

229 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 9, K
1980-84 V6 229 CID

GMT229 50
BORE - 94.9mm/3.74" (cont.)

PART		YEARS	PART NO.	NOTES
Lifter	Both	1980-84	VL37	Hydraulic Type
Rocker Components	Both	1980-84	180-1228	Rocker Arm
		1980-84	180-1283	Rocker Arm, Rail Type,Optional
		1980-84	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1980-84	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional
		1980-84	183-1017	Smooth Ball, 3/8
		1980-84	183-1032	Grooved Ball, 3/8
1980-84	184-1038	Nut, 3/8		
Push Rod	Both	1980-84	192-1331	7.793 Length

230 C.I., (3.8L), OHV, GAS, CARB, Vin S, ""Chevrolet""
1963-69 L6 230 CID

GMT230 51
BORE - 98.4mm/3.88"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1963-69	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	1963-69	SB1562-2	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ T I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	1963-69	00399	1.720 Head Diameter,+15 O/S Stem Available
		1963-69	01193	1.720 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
	Exh	1963-69	00400	1.500 Head Diameter,+3 & +15 O/S Stem Available
		1963-69	01192	1.500 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
1963-69	01206S	1.500 Head Diameter,Stellite Face,Optional Material & Chrome Plated, +15 O/S Stem Available		
Keeper	Both	1963-69	121-1003	1 SQ Bead Type
Stem Seal	Both	1963-69	122-1075	Positive Type,Viton Material, Ring & Band Style
		1963-69	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	1963-69	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
	Exh	1963-69	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1963-69	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1963-69	160-1125	2.050 Length,W/ Damper,W/ Rotator
		1963-69	160-1148	1.900 Length,W/O Rotator
Lifter	Both	1963-69	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1963-69	VL73	Hydraulic Type
Rocker Components	Both	1963-69	181-1012	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1963-69	183-1024	Smooth Ball, 3/8
		1963-69	184-1038	Nut, 3/8
Push Rod	Both	1963-69	192-1330	9.682 Length

231 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 2, A
1979-84 V6 231 CID

GMT3.8-CA 52
BORE - 96.5mm/3.80"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1979-84	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth

GM TRUCK / PASSENGER TRUCK (Cont'd)

52 231 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 2, A
(cont.) 1979-84 V6 231 CID

GMT3.8-CA
BORE - 96.5mm/3.80"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1979-84	SB1562-9	1 ¹ / ₁₆ O.D., 1 ¹ / ₁₆ T I.D., 7 ¹ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1979-84	01388	1.710 Head Diameter, Square Groove, 0.3407 Stem, 4.713 Overall Length
	Exh	1979-84	01387	1.500 Head Diameter, W/ Seal Groove
Keeper	Both	1979-84	121-1003	1 SQ Bead Type
Stem Seal	Int	1979-84	122-1217	Positive Type, Viton Material, Ring & Band Style Umbrella Type, Nylon Material, Umbrella Style Positive Type, Poly Material, 2-Ring Style
	Exh	1979-84	122-1233	
	Both	1979-84	122-1048	
Guide	Int	1979-84	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1979-84	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1979-84	140-6105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1979-84	140-9105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9105U)
Spring	Exh	1979-84	160-1144	2.048 Length, W/ Damper
	Both	1979-84	160-1144HP	2.023 Length, W/ Damper, Hi-Perf.
		1979-84	160-1407	2.140 Length, W/ Damper, Optional Hi-Perf.
Lifter	Both	1979-84	VL37	Hydraulic Type
Rocker Components	Both	1979-84	180-1040	Rocker Arm, Stamped Steel, R.H.
		1979-84	180-1041	Rocker Arm, Stamped Steel, L.H.
		1979-84	187-1014	Retainer
Push Rod	Both	1979-84	190-1433	8.686 Length, Note: (Hardened); +60 O/S (190-1433+60) Available

53 231 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin L
1992-95 V6 231 CID

GMT3.8-FI
BORE - 96.5mm/3.80"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1992-95	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7 ¹ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1992-95	SB1562-42	1 ¹ / ₁₆ O.D., 1 ¹ / ₁₆ T I.D., 7 ¹ / ₃₂ Depth, Optional 1 ³ / ₁₆ x 1 ³ / ₈ Tapered I.D.
		1992-95	SB1562-9	1 ¹ / ₁₆ O.D., 1 ¹ / ₁₆ T I.D., 7 ¹ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1992-95	01711	1.710 Head Diameter, Square Groove, 0.3407 Stem, 4.726 Overall Length, +15 O/S Stem Available
	Exh	1992-95	01710	1.490 Head Diameter, Square Groove, 0.3408 Stem, 4.727 Overall Length, +15 O/S Stem Available
Keeper	Both	1992-95	121-1003	1 SQ Bead Type
Stem Seal	Int	1992-95	122-1217	Positive Type, Viton Material, Ring & Band Style Positive Type, Viton Material, Ring & Band Style
	Exh	1992-95	122-1218	
Guide	Both	1992-95	140-5606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U)
		1992-95	140-9606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9606U)
Spring	Both	1992-95	160-1085	1.981 Length
Lifter	Both	1992-95	VL115	Hydraulic Roller Type, Always Install Oil Hole Up To Valley On "V" Style Engines.
Push Rod	Both	1992-95	192-1491	7.963 Length

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

235 C.I., (3.8L), OHV, GAS, CARB, 12 Valve
1942-62 L6 235 CID

GMT235 54
BORE - 90.5mm/3.56"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1942-62	SB1937-17	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., ⁷ / ₃₂ Depth
	Exh	1942-62	SB1562-2	1 ⁹ / ₁₆ O.D., 1 ¹⁵ / ₁₆ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1953-62	00308	1.875 Head Diameter
	Exh	1953-62	00400	1.500 Head Diameter, +3 & +15 O/S Stem Available
		1953-62	01192	1.500 Head Diameter, Opt. Chrome Plated, +3 & +15 O/S Stem Available
		1953-62	01206S	1.500 Head Diameter, Stellite Face, Optional Material & Chrome Plated, +15 O/S Stem Available
Keeper	Both	1953-62	121-1003	1 SQ Bead Type
Stem Seal	Both	1942-62	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style, Machine Guide To 0.562 O.D.
		1942-62	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1942-62	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1942-62	122-1048	Positive Type, Poly Material, 2-Ring Style, W/ .341 Stem Dia.
		1942-62	122-1270	Umbrella Type, Viton Material, Umbrella Style
		1953-62	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ ¹ / ₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	1942-62	140-1732	0.3435 I.D., 3.344 Length, 0.5648 O.D.
	Exh	1942-62	140-1527	0.3435 I.D., 2.438 Length, 0.5650 O.D.
Spring	Both	1942-62	160-1126	2.160 Length, Exc. 1958
		1958-58	160-1116	2.250 Length

237 C.I., (3.9L), OHV, FLEX, FI, 12 Valve, Vin W, LGD
2007-09 V6 237 CID

GMT3.9-LGD 55
BORE - 99mm/3.90"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2007-09	SB1937-55	1 ¹⁵ / ₁₆ O.D., 1.640T I.D., 0.2900 Depth, NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	2007-09	13044	1.523 Head Diameter
Valve	Int	2007-09	13043	1.870 Head Diameter
Keeper	Both	2007-09	121-1085	1 RD Bead Type
Stem Seal	Int	2007-09	122-1337	Positive Type, Viton Material, Top Hat Style
	Exh	2007-09	122-1338	Positive Type, Viton Material, Top Hat Style
Guide	Both	2007-09	140-3053	0.3154 I.D., 2.115 Length, 0.5000 O.D., +2 O/S Available (140-3053+2)
		2007-09	140-3053H	0.3154 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional Hardened Version
		2007-09	140-3053U	0.3054 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional - 010 Undersized I.D.
		2007-09	340-1046BR	0.3150 I.D., 2.120 Length, 0.5010 O.D., NOTE: Optional Bronze Version
Spring	Both	2007-09	160-1607	2.081 Length, Conical, W/ External Shroud
Lifter	Both	2007-09	VL138	Hydraulic Roller Type
Rocker Components	Both	2007-09	180-1331	Rocker Arm, Roller Pivot Assy., W/8mm Bolt
Push Rod	Int	2007-09	190-1546	5.879 Length
	Exh	2007-09	190-1547	6.168 Length
Head Saver Shim		2007-09	230-2182	New Hgt. - N/A; Min. Hgt. - N/A

GM TRUCK / PASSENGER TRUCK (Cont'd)

56 237 C.I., (3.9L), OHV, GAS, FI, 12 Valve, Vin 1, LZ9
2006-09 V6 237 CID

GMT3.9-LZ9
BORE - 99mm/3.90"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2006-09	SB1937-55	1 ¹⁵ / ₁₆ O.D.,1.640T I.D.,0.2900 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2006-09	13043	1.870 Head Diameter
	Exh	2006-09	13044	1.523 Head Diameter
Keeper	Both	2006-09	121-1085	1 RD Bead Type
Stem Seal	Int	2006-09	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2006-09	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2006-09	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2006-09	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2006-09	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2006-09	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2006-09	160-1607	2.081 Length,Conical, W/ External Shroud
Lifter	Both	2006-09	VL138	Hydraulic Roller Type
Rocker Components	Both	2006-09	180-1331	Rocker Arm, Roller Pivot Assy., W/8mm Bolt
Push Rod	Int	2006-09	190-1546	5.879 Length
	Exh	2006-09	190-1547	6.168 Length
Head Saver Shim		2006-09	230-2182	New Hgt. - N/A; Min. Hgt. - N/A

57 239 C.I., (3.9L), OHV, DIESEL, FI, 8 Valve, Vin L, ""Cummins TURBO""
1989-91 L4 239 CID

GMT3.9TD
BORE - 102mm/4.016"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1989-91	SB1853E-1	1.853 O.D., 1.498T I.D.,0.2730 Depth
		1989-91	SB1875-8	1 ⁷ / ₈ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Head W/O OEM Seat
	Exh	1989-91	SB1722E-1	1.722 O.D.,1.357T I.D.,0.2650 Depth
		1989-91	SB1750-7	1 ³ / ₄ O.D.,1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Head W/O OEM Seat
Valve	Int	1989-91	01665	1.772 Head Diameter,W/ 30 Degree Seat
	Exh	1989-91	01664	1.654 Head Diameter,W/ 45 Degree Seat
Keeper	Both	1989-91	121-1079	1 RD Bead Type
Stem Seal	Both	1989-91	122-1053	Positive Type,Viton Material,Ring & Band Style,Black Color Seal
		1989-91	122-1269	Positive Type,Viton Material,Ring & Band Style,Orange Color Seal
Guide	Int	1989-91	140-8177	0.3162 I.D.,2.382 Length,0.5528 O.D.
		1989-91	140-8177SA	0.3162 I.D.,2.382 Length,0.5528 O.D.,""Special Alloy"" , For Ultra Low Sulfur Diesel
	Exh	1989-91	140-8178	0.3160 I.D.,2.052 Length,0.5528 O.D.
		1989-91	140-8178SA	0.3160 I.D.,2.052 Length,0.5528 O.D.,""Special Alloy"" , For Ultra Low Sulfur Diesel
	Both	1989-91	140-8277	0.3162 I.D.,2.500 Length,0.4393 O.D.,W/O Seal Boss, Universal Length
	Lifter	Both	1989-91	VL156	Mechanical Type
Push Rod	Both		190-1530	10.910 Length

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

248 C.I., (4.1L), OHV, GAS, CARB, 12 Valve
1953-55 L6 248 CID

GMT248 58

BORE - 94.5mm/3.72"

PART		YEARS	PART NO.	NOTES
Guide	Int	1953-55	140-1803	0.3745 I.D.,2.938 Length,0.6895 O.D.
	Exh	1953-55	140-1740	0.3745 I.D.,2.813 Length,0.6893 O.D.

250 C.I., (4.1L), OHV, GAS, LPG, CARB, 12 Valve, Vin C, D, L, N, P, Q, S
1966-84 L6 250 CID

GMT250DQ 59

BORE - 93.5mm/3.68"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1966-84	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	1966-84	SB1562-2	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ T I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material,Exc. LPG
		1966-84	SB1562-2N	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ T I.D., ¹ / ₄ Depth,LPG
Valve	Int	1966-84	01193	1.720 Head Diameter,Except LPG, +3 & +15 O/S Stem Available
		1966-84	01194	1.720 Head Diameter,LPG
	Exh	1966-84	01192	1.500 Head Diameter,Except LPG, +3 & +15 O/S Stem Available
		1966-84	01206S	1.500 Head Diameter,Stellite Face,LPG +15 O/S Stem Available
Keeper	Both	1966-84	121-1003	1 SQ Bead Type
Stem Seal	Both	1966-84	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1966-84	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1966-84	122-1048	Positive Type,Poly Material,2-Ring Style,W/ .341 Stem Dia.
		1966-84	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		1966-84	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Int	1966-84	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
		1966-84	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
	Exh	1966-84	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1966-76	160-1148	1.900 Length
		1977-84	160-1125	2.050 Length,W/ Damper
Lifter	Both	1966-84	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1966-84	VL37	Hydraulic Type
Rocker Components	Both	1966-84	180-1228	Rocker Arm,"" Sprint ""
		1966-84	180-1283	Rocker Arm, Rail Type,Optional, "" Sprint ""
		1966-84	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut,Sprint
		1966-84	181-1012	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut,"" Except Sprint ""
		1966-84	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) ³ / ₈ Nut,Optional, "" Sprint ""
		1966-84	183-1017	Smooth Ball, ³ / ₈ ,Sprint
		1966-84	183-1024	Smooth Ball, ³ / ₈
		1966-84	184-1038	Nut, ³ / ₈
Push Rod	Both	1966-84	192-1330	9.682 Length

256 C.I., (4.2L), DOHC, GAS, FI, 24 Valve, Vin S, LL8, ""Atlas Vortec 4200""
2002-09 L6 256 CID

GMT4.2-LL8 60

BORE - 93mm/3.66"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	2002-05	SB1250-50	1 ¹ / ₄ O.D.,0.965T I.D., ¹ / ₄ Depth,NOTE: Optional ¹ / ₄ Depth; Must Machine Insert To Achieve Correct Depth

GM TRUCK / PASSENGER TRUCK (Cont'd)

60 256 C.I., (4.2L), DOHC, GAS, FI, 24 Valve, Vin S, LL8, ""Atlas Vortec 4200"" GMT4.2-LL8
(cont.) 2002-09 L6 256 CID BORE - 93mm/3.66""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	2002-05	SB1250-65	1¼ O.D., 1.030 I.D., 0.2150 Depth
Valve	Int	2002-05	01998	1.457 Head Diameter
		2006-09	13179	1.525 Head Diameter
	Exh	2002-05	01999	1.201 Head Diameter
		2006-09	13046	1.323 Head Diameter
Keeper	Both	2002-09	121-1098	3 RD Bead Type
Stem Seal	Both	2002-05	122-1349	Positive Type, Viton Material, Top Hat Style
		2006-09	122-1394	Positive Type, Viton Material, Top Hat Style
Guide	Both	2002-09	140-8556	0.2355 I.D., 1.735 Length, 0.4360 O.D.
Spring	Both	2002-05	160-1480	1.770 Length
		2006-09	160-1579	1.760 Length, Conical
Lifter	Both	2002-09	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2002-09	180-1323	Cam Follower
Head Bolt Set		2002-09	220-1101	Torque To Yield, Services Engine
Head Saver Shim		2002-09	230-2185	New Hgt. - N/A; Min. Hgt. - N/A

61 261 C.I., (4.3L), OHV, GAS, CARB, 12 Valve, ""Chevrolet"" GMT261
1954-62 L6 261 CID BORE - 95.3mm/3.75""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1954-62	SB1937-17	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., 7/32 Depth
	Exh	1954-62	SB1562-2	1 ⁹ / ₁₆ O.D., 1 ¹⁵ / ₁₆ T I.D., ¼ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1954-62	00308	1.875 Head Diameter
		1954-62	00400	1.500 Head Diameter, +3 & +15 O/S Stem Available
	Exh	1954-62	01192	1.500 Head Diameter, Opt. Chrome Plated, +3 & +15 O/S Stem Available
		1954-62	01206S	1.500 Head Diameter, Stellite Face, Optional Material & Chrome Plated, +15 O/S Stem Available
Keeper	Both	1954-62	121-1003	1 SQ Bead Type
Stem Seal	Both	1954-62	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1954-62	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ 1 ¹ / ₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	1954-62	140-1732	0.3435 I.D., 3.344 Length, 0.5648 O.D.
	Exh	1954-62	140-1527	0.3435 I.D., 2.438 Length, 0.5650 O.D.
Spring	Both	1954-62	160-1116	2.250 Length

62 262 C.I., (4.3L), OHV, GAS, FI, 12 Valve, Vin Z GMT-262Z
1985-95 V6 262 CID BORE - 101.6mm/4.00""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1985-95	SB2000-36	2.000 O.D., 1 ³ / ₄ I.D., 3/16 Depth
	Exh	1985-95	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ¹⁵ / ₁₆ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1985-95	01195	1.940 Head Diameter, +3 & +15 O/S Stem Available
		1985-95	01192	1.500 Head Diameter, +3 & +15 O/S Stem Available
	Exh	1985-95	01294S	1.500 Head Diameter, Stellite Face, W/ .3718T Stem Dia., +15 O/S Stem Available
Keeper	Both	1985-95	121-1003	1 SQ Bead Type
Stem Seal	Exh	1990-95	122-1234	Umbrella Type, Nylon Material, Umbrella Style
	Both	1985-95	122-1037	Umbrella Type, Poly Material, Umbrella Style

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

262 C.I., (4.3L), OHV, GAS, FI, 12 Valve, Vin Z
1985-95 V6 262 CID

GMT-262Z **62**
BORE - 101.6mm/4.00" (cont.)

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1985-95	122-1043	O-Ring Type,Nitrile Material,O-Ring Style,W/ .341 Stem Dia. Positive Type,Poly Material,2-Ring Style,W/ .341 Stem Dia. Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹ / ₂ Std. Stem, Use 122-1238 +15 For Oversize Stems Umbrella Type,Viton Material,Umbrella Style
		1985-95	122-1048	
		1985-95	122-1238	
		1985-95	122-1270	
Guide	Int	1985-95	140-3015	0.3420 I.D.,2.120 Length,0.5020 O.D.,0.552 Boss O.D., Replaces guide Boss of Integrated guide. 0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
		1985-95	140-9867	
	Exh	1985-95	140-3016	0.3420 I.D.,2.210 Length,0.5020 O.D.,0.552 Boss O.D., Replaces guide Boss of Integrated guide. 0.3430 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide 0.3730 I.D.,2.220 Length,0.6203 O.D.,Spiral Reamed, Replaceable Exh Guide. Use Caution When Removing Stepped O.D.. The Bottom Of Guide Is The 0.620 End, Remove By Driving Out Toward Valve Seat 0.3430 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
		1985-95	140-7946	
		1985-95	140-8407	
		1985-95	140-9946	
Spring	Both	1985-95	160-1144	2.048 Length,W/ Damper 2.023 Length,W/ Damper,Hi-Perf. 2.140 Length,W/ Damper,Optional Hi-Perf.
		1985-95	160-1144HP	
		1985-95	160-1407	
Rotator	Exh	1985-95	161-1012	
Lifter	Both	1985-86	VL37	Hydraulic Type Hydraulic Roller Type,Always Install Oil Hole Up To Valley On "V" Style Engines.
		1987-95	VL115	
Rocker Components	Both	1985-95	180-1228	Rocker Arm Rocker Arm, Rail Type,Optional Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut,Adjustable, W/ Press In Rocker Arm Studs, Standard Threads Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) ³ / ₈ Nut,Optional Smooth Ball, 10mm,Use W/ Metric Threaded Rocker Arm Stud Smooth Ball, ³ / ₈ ,Use W/ Press In Rocker Arm Stud Nut, 8mm,Non-Adjustable, Use W/ Metric Threaded Rocker Arm Studs Nut, ³ / ₈ ,Adjustable, W/ Press in Rocker Arm Studs, Standard Threads
		1985-95	180-1283	
		1985-95	181-1011	
		1985-95	181-1061	
		1985-95	183-1015	
		1985-95	183-1017	
		1985-95	184-1033	
1985-95	184-1038			
Push Rod	Both	1985-86	192-1331	7.793 Length 7.195 Length,W/ Hyd. Roller Lifters
		1987-95	192-1485	
Head Bolt Set		1985-95	220-1104	Torque To Yield,Services Engine

262 C.I., (4.3L), OHV, GAS, FI, 12 Valve, Vin Z, "TURBO"
1991-93 V6 262 CID

GMT262T **63**
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1991-93	2.000 O.D.,1 ³ / ₄ I.D., ³ / ₁₆ Depth 1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material	
	Exh	1991-93		
Valve	Int	1991-93	1.940 Head Diameter,+3 & +15 O/S Stem Available 1.500 Head Diameter,+3 & +15 O/S Stem Available	
	Exh	1991-93		
Keeper	Both	1991-93	1 SQ Bead Type	
Stem Seal	Int	1991-93	122-1048	Positive Type,Poly Material,2-Ring Style,W/ .341 Stem Dia.

GM TRUCK / PASSENGER TRUCK (Cont'd)

63 262 C.I., (4.3L), OHV, GAS, FI, 12 Valve, Vin Z, ""TURBO""
(cont.) 1991-93 V6 262 CID

GMT262T
BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Stem Seal	Exh	1991-93	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1991-93	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1991-93	122-1270	Umbrella Type,Viton Material,Umbrella Style
	Both	1991-93	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 11/32 Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	1991-93	140-3015	0.3420 I.D.,2.120 Length,0.5020 O.D.,0.552 Boss O.D., Replaces guide Boss of Integrated guide.
		1991-93	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
	Exh	1991-93	140-3016	0.3420 I.D.,2.210 Length,0.5020 O.D.,0.552 Boss O.D., Replaces guide Boss of Integrated guide.
		1991-93	140-9946	0.3430 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1991-93	160-1144	2.048 Length,W/ Damper
		1991-93	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		1991-93	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Rotator	Exh	1991-93	161-1012	
Lifter	Both	1991-93	VL115	Hydraulic Roller Type,Always Install Oil Hole Up To Valley On ""V"" Style Engines.
Rocker Components	Both	1991-93	180-1228	Rocker Arm
		1991-93	180-1283	Rocker Arm, Rail Type,Optional
		1991-93	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut,Adjustable, W/ Press In Rocker Arm Studs, Standard Threads
		1991-93	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional
		1991-93	183-1015	Smooth Ball, 10mm,Use W/ Metric Threaded Rocker Arm Stud
		1991-93	183-1017	Smooth Ball, 3/8,Use W/ Press In Rocker Arm Stud
		1991-93	184-1033	Nut, 8mm,Non-Adjustable, Use W/ Metric Threaded Rocker Arm Studs
		1991-93	184-1038	Nut, 3/8,Adjustable, W/ Press in Rocker Arm Studs, Standard Threads
Push Rod	Both	1991-93	192-1485	7.195 Length,W/ Hyd. Roller Lifters

64 262 C.I., (4.3L), OHV, GAS, FI, 12 Valve, Vin W, X, ""Vortec""
1992-14 V6 262 CID

GMT262W
BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1992-14	SB2000-36	2.000 O.D.,1 3/4 I.D.,3/16 Depth
		1992-14	SB1562-1	1 9/16 O.D.,1 5/16 I.D.,7/32 Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1992-14	SB1562-1N	1 9/16 O.D.,1 5/16 I.D.,7/32 Depth,LPG Applications
Valve	Int	1992-95	01195	1.940 Head Diameter,+3 & +15 O/S Stem Available
		1996-14	01762R	1.940 Head Diameter,Optional Stainless Steel, W/O Seal Groove
	Exh	1996-14	01931	1.940 Head Diameter,1 Groove,+15 O/S Stem Available
		1992-95	01192	1.500 Head Diameter,+3 & +15 O/S Stem Available. WO/ Bal. Shaft
		1996-14	01807	1.500 Head Diameter,1 Groove,4.920 Overall Length, W/O Oil Seal Groove, +15 O/S Available
1996-14	01807S	1.500 Head Diameter,Stellite Face,4.920 Overall Length, LPG Applications, W/O Oil Seal Groove, +15 O/S Stem Available		
Keeper	Both	1992-14	121-1003	1 SQ Bead Type
Stem Seal	Both	1992-95	122-1047	Positive Type,Poly Material,2-Ring Style

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

262 C.I., (4.3L), OHV, GAS, FI, 12 Valve, Vin W, X, ""Vortec""
1992-14 V6 262 CID

GMT262W **64**
BORE - 101.6mm/4.00"" (cont.)

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1992-95	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 ¹ / ₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		1996-14	122-1260	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1992-14	140-3015	0.3420 I.D.,2.120 Length,0.5020 O.D.,0.552 Boss O.D., Replaces guide Boss of Integrated guide.
		1992-14	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
	Exh	1992-14	140-3016	0.3420 I.D.,2.210 Length,0.5020 O.D.,0.552 Boss O.D., Replaces guide Boss of Integrated guide.
		1992-14	140-8407	0.3730 I.D.,2.220 Length,0.6203 O.D.,Spiral Reamed, Replaceable Exh Guide. Use Caution When Removing Stepped O.D.. The Bottom Of Guide Is The 0.620 End, Remove By Driving Out Toward Valve Seat
	1992-14	140-9946	0.3430 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide	
Spring	Both	1992-95	160-1009	1.910 Length,W/ Damper
		1992-95	160-1144	2.048 Length,W/ Damper
		1992-95	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		1992-95	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
		1996-14	160-1266	2.040 Length
Rotator	Exh	1992-95	161-1012	
Lifter	Both	1992-14	VL115	Hydraulic Roller Type,Always Install Oil Hole Up To Valley On ""V"" Style Engines.
Rocker Components	Both	1992-99	180-1228	Rocker Arm
		1992-99	180-1283	Rocker Arm, Rail Type,Optional
		1992-99	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut,Kit Includes SAE Balls & Nuts; NOTE: Metric Balls & Nuts Must Be Ordered Separately.
		1992-99	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional; Kit Includes SAE Balls & Nuts; NOTE: Metric Balls & Nuts Must Be Ordered Separately.
		1992-99	183-1015	Smooth Ball, 10mm,Use W/ Metric Threaded Rocker Arm Stud
		1992-99	183-1017	Smooth Ball, 3/8,Use W/ Press In Rocker Arm Stud
		1992-99	184-1033	Nut, 8mm,Non-Adjustable, Use W/ Metric Threaded Rocker Arm Studs
		1992-99	184-1038	Nut, 3/8,Adjustable, W/ Press in Rocker Arm Studs, Standard Threads
	2000-07	180-1317	Rocker Arm, Roller Pivot Assy., W 8mm/Bolt	
Push Rod	Both	1992-14	192-1485	7.195 Length,W/ Hyd. Roller Lifters
Head Bolt Set		1992-11	220-1104	Torque To Yield,Services Engine

262 C.I., (4.3L), OHV, FLEX, GAS, FI, 12 Valve, Vin P, LV1, ""Vortec""
2018-21 V6 262 CID

GMT4.3-LV1 **65**
BORE - 99.6mm/3.92""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2018-20	13432	1.929 Head Diameter
	Exh	2018-20	13433	1.555 Head Diameter
Keeper	Both	2018-20	121-1085	1 RD Bead Type
Stem Seal	Int	2018-19	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2018-19	122-1338	Positive Type,Viton Material,Top Hat Style
Spring	Both	2018-20	160-1688	2.253 Length,Conical
Lifter	Both	2018-20	VL115	Hydraulic Roller Type,Always Install Oil Hole Up To Valley On ""V"" Style Engines.
Push Rod	Both	2018-20	190-1555	7.850 Length

GM TRUCK / PASSENGER TRUCK (Cont'd)

66 262 C.I., (4.3L), OHV, FLEX, GAS, FI, 12 Valve, Vin H, LV3, ""AFM EcoTec3""
2014-21 V6 262 CID

GMT4.3-LV3
BORE - 99.6mm/3.92""

PART		YEARS	PART NO.	NOTES
Valve	Int	2014-20	13432	1.929 Head Diameter
	Exh	2014-20	13433	1.555 Head Diameter
Keeper	Both	2014-20	121-1085	1 RD Bead Type
Stem Seal	Int	2014-19	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2014-19	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2014-20	140-3204	0.3150 I.D.,2.235 Length,0.5000 O.D.
Spring	Both	2014-20	160-1688	2.253 Length,Conical
Lifter	Both	2014-20	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 6 Required; NOTE: It Is Recommended To Replace In Sets.
		2014-20	VL558E	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, 6 Required; NOTE: It Is Recommended To Replace In Sets.
		2014-20	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2014-20	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2014-20	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required
Push Rod	Both	2014-20	190-1555	7.850 Length

67 265 C.I., (4.3L), OHV, GAS, CARB, 16 Valve
1955-57 V8 265 CID

GMT265
BORE - 95.3mm/3.75""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1955-57	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	1955-57	SB1562-2	1 ¹ / ₁₆ O.D.,1 ¹⁵ / ₁₆ T I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	1955-57	00399	1.720 Head Diameter,+15 O/S Stem Available
		1955-57	01193	1.720 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
	Exh	1955-57	00400	1.500 Head Diameter,+3 & +15 O/S Stem Available
		1955-57	01192	1.500 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
	1955-57	01206S	1.500 Head Diameter,Stellite Face,Optional Material & Chrome Plated, +15 O/S Stem Available	
Keeper	Both	1955-57	121-1003	1 SQ Bead Type
Stem Seal	Both	1955-57	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1955-57	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	1955-57	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1955-57	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1955-57	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
		1955-57	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
Spring	Int	1955-57	160-1117	2.030 Length
Lifter	Both	1955-57	VL37	Hydraulic Type
Rocker Components	Both	1955-57	180-1228	Rocker Arm

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

265 C.I., (4.3L), OHV, GAS, CARB, 16 Valve
1955-57 V8 265 CID

GMT265 67
BORE - 95.3mm/3.75" (cont.)

PART		YEARS	PART NO.	NOTES
Rocker Components	Both	1955-57	180-1239	Rocker Arm, Stamped, Long Slot
		1955-57	180-1283	Rocker Arm, Rail Type,Optional
		1955-57	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1955-57	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut,High Perf., W/ 1.5:1 Ratio
		1955-57	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional
		1955-57	183-1017	Smooth Ball, 3/8
		1955-57	183-1032	Grooved Ball, 3/8
		1955-57	184-1038	Nut, 3/8
Push Rod	Both	1955-57	192-1331	7.793 Length

267 C.I., (4.4L), OHV, GAS, CARB, 16 Valve, Vin J
1979-81 V8 267 CID

GMT267J 68
BORE - 89mm/3.50" (cont.)

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1979-81	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	1979-81	SB1437-2	1 ⁷ / ₁₆ O.D.,1 ⁷ / ₃₂ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1979-81	01193	1.720 Head Diameter,+3 & +15 O/S Stem Available
Keeper	Both	1979-81	121-1003	1 SQ Bead Type
Stem Seal	Both	1979-81	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1979-81	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	1979-81	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
	Exh	1979-81	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1979-81	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1979-81	160-1144	2.048 Length,W/ Damper
		1979-81	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		1979-81	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Lifter	Both	1979-81	VL37	Hydraulic Type
Rocker Components	Both	1979-81	180-1228	Rocker Arm
		1979-81	180-1239	Rocker Arm, Stamped, Long Slot
		1979-81	180-1283	Rocker Arm, Rail Type,Optional
		1979-81	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1979-81	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut,High Perf., W/ 1.5:1 Ratio
		1979-81	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional
		1979-81	183-1017	Smooth Ball, 3/8
		1979-81	183-1032	Grooved Ball, 3/8
1979-81	184-1038	Nut, 3/8		
Push Rod	Both	1979-81	192-1331	7.793 Length

GM TRUCK / PASSENGER TRUCK (Cont'd)

69 281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin A, LH2, ""Cadillac Northstar""
2004-09 V8 281 CID

GMT4.6-LH2
BORE - 93mm/3.66""

PART		YEARS	PART NO.	NOTES
Valve	Int	2004-09	02053	1.426 Head Diameter
	Exh	2004-09	13243	1.142 Head Diameter,Inconel
Keeper	Both	2004-09	121-1081	1 RD Bead Type
Stem Seal	Both	2004-09	122-1349	Positive Type,Viton Material,Top Hat Style
Guide	Int	2004-09	140-3056	0.2350 I.D.,1.700 Length,0.4333 O.D.
	Exh	2004-09	140-3057	0.2350 I.D.,1.500 Length,0.4333 O.D.
Spring	Both	2004-09	160-1634	1.656 Length
Lifter	Both	2004-09	VL175	Hydraulic Lash Adjuster Type

70 283 C.I., (4.6L), OHV, GAS, CARB, 16 Valve, ""Chevrolet""
1957-67 V8 283 CID

GMT283
BORE - 98.4mm/3.88""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1957-67	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	1957-67	SB1562-2	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ T I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	1957-67	00399	1.720 Head Diameter,+15 O/S Stem Available
		1957-67	01193	1.720 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
	Exh	1957-67	00400	1.500 Head Diameter,+3 & +15 O/S Stem Available
		1957-67	01192	1.500 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
		1957-67	01206S	1.500 Head Diameter,Stellite Face,Optional Material & Chrome Plated, +15 O/S Stem Available
Keeper	Both	1957-67	121-1003	1 SQ Bead Type
Stem Seal	Both	1957-67	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1957-67	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	1957-67	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1957-67	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1957-67	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
		1957-67	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
Spring	Both	1957-61	160-1117	2.030 Length
		1962-66	160-1125	2.050 Length,W/ Damper
		1967-67	160-1144	2.048 Length,W/ Damper
		1967-67	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		1967-67	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Lifter	Both	1957-67	VL37	Hydraulic Type
Rocker Components	Both	1957-67	180-1228	Rocker Arm
		1957-67	180-1239	Rocker Arm, Stamped, Long Slot
		1957-67	180-1283	Rocker Arm, Rail Type,Optional
		1957-67	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut
		1957-67	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) ³ / ₈ Nut,High Perf., W/ 1.5:1 Ratio
		1957-67	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) ³ / ₈ Nut,Optional
		1957-67	183-1017	Smooth Ball, ³ / ₈

(Cont'd) GM TRUCK / PASSENGER TRUCK

283 C.I., (4.6L), OHV, GAS, CARB, 16 Valve, ""Chevrolet""
1957-67 V8 283 CID

GMT283 70
BORE - 98.4mm/3.88"" (cont.)

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	1957-67	183-1032	Grooved Ball, 3/8 Nut, 3/8
		1957-67	184-1038	
Push Rod	Both	1957-67	192-1331	7.793 Length
Head Bolt Set		1957-67	220-1018	This bolt is NOT Torque to Yield,2 Required

292 C.I., (4.8L), OHV, GAS, LPG, CARB, FI, 12 Valve, Vin S, T
1963-89 L6 292 CID

292T 71
BORE - 98.4mm/3.88""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1963-89	SB1812-3	1 13/16 O.D., 1 1/2 T I.D., 7/32 Depth 1 9/16 O.D., 1 5/16 I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, Exc. LPG 1 9/16 O.D., 1 5/16 I.D., 7/32 Depth, LPG
	Exh	1963-89	SB1562-1	
		1963-89	SB1562-1N	
Valve	Int	1963-70	00399	1.720 Head Diameter, +15 O/S Stem Available 1.720 Head Diameter, LPG 1.720 Head Diameter, Except LPG, +3 & +15 O/S Stem Available
		1963-89	01194	
		1971-89	01193	
	Exh	1963-89	01206S	1.500 Head Diameter, Stellite Face, W/ .342 Stem, +15 O/S Stem Available 1.500 Head Diameter, Inconel, Stellite Face, W/ .3719 Stem Dia., LPG
		1963-89	01646S	
Keeper	Both	1963-89	121-1003	1 SQ Bead Type
Stem Seal	Exh	1985-89	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style O-Ring Type, Nitrile Material, O-Ring Style Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ 1 1/2 Std. Stem, Use 122-1238 +15 For Oversize Stems
	Both	1963-89	122-1043	
		1963-89	122-1238	
Guide	Int	1963-89	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U) 0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, +2 O/S Available (140-5607+2) 0.3740 I.D., 2.250 Length, 0.5020 O.D., Use W/ .371 Valve Stem Dia., Plain I.D. Conversion Guide 0.3740 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, W/ .371 Valve Stem Dia 0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), -5 U/S I.D. Available (140-9607U)
	Exh	1963-89	140-5607	
		1963-89	140-6107	
		1963-89	140-9107	
		1963-89	140-9607	
Spring	Both	1963-89	160-1125	2.050 Length, W/ Damper
Rotator	Exh	1963-89	161-1012	
Lifter	Both	1963-89	VL117RH	Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train. Hydraulic Type
		1963-89	VL73	
Rocker Components	Both	1963-89	181-1012	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut Smooth Ball, 3/8 Nut, 3/8
		1963-89	183-1024	
		1963-89	184-1038	
Push Rod	Both	1963-89	192-1335	11.382 Length, Series 10 Thru 30

294 C.I., (4.8L), OHV, GAS, FI, 16 Valve, Vin V, LR4, ""Vortec""
1999-07 V8 294 CID

GMT4.8-LR4 72
BORE - 96mm/3.78""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1999-07	SB2062-50	2 1/16 O.D., 1.750 I.D., 0.4200 Depth, Also Available In Non-Magnetic (N) Material

GM TRUCK / PASSENGER TRUCK (Cont'd)

72 294 C.I., (4.8L), OHV, GAS, FI, 16 Valve, Vin V, LR4, ""Vortec"" GMT4.8-LR4
 (cont.) 1999-07 V8 294 CID BORE - 96mm/3.78""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1999-07	SB2062-50N	2 ¹ / ₁₆ O.D., 1.750 I.D., 0.4200 Depth, LPG
	Exh	1999-07	SB1625-64	1 ⁵ / ₈ O.D., 1.335T I.D., 0.4200 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		1999-07	SB1625-64N	1 ⁵ / ₈ O.D., 1.335T I.D., 0.4200 Depth, LPG
		1999-07	SB1625-64PM	1 ⁵ / ₈ O.D., 1.335T I.D., 0.4200 Depth, OEM Equivalent PM Material,
Valve	Int	1999-07	01934	1.890 Head Diameter
		1999-07	01934S	1.890 Head Diameter, Stellite Face, LPG
	Exh	1999-07	01935	1.551 Head Diameter
		1999-07	01935S	1.551 Head Diameter, Stellite Face, LPG
Keeper	Both	1999-07	121-1085	1 RD Bead Type
Stem Seal	Int	2001-07	122-1337	Positive Type, Viton Material, Top Hat Style, 2nd Design.
	Exh	2001-07	122-1338	Positive Type, Viton Material, Top Hat Style, 2nd Design.
	Both	1999-01	122-1323	Positive Type, Viton Material, Metal Clad Style, 1st Design
Guide	Both	1999-07	140-3053	0.3154 I.D., 2.115 Length, 0.5000 O.D., +2 O/S Available (140-3053+2), +2 O/S Available
		1999-07	140-3053H	0.3154 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional Hardened Version
		1999-07	140-3053U	0.3054 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional - 010 Undersized I.D.
		1999-07	340-1046BR	0.3150 I.D., 2.120 Length, 0.5010 O.D., NOTE: Optional Bronze Version
Spring	Both	1999-07	160-1488	2.130 Length, Conical
Lifter	Both	1999-07	VL115	Hydraulic Roller Type, Always Install Oil Hole Up To Valley On ""V"" Style Engines.
		1999-07	VL559G	Non-AFM Lifter Guide Type, Non-AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
Rocker Components	Both	1999-07	180-1337	Rocker Arm, Roller Pivot Assy., NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	1999-07	190-1537	7.397 Length
Head Bolt Set		1999-04	220-1102	Torque To Yield, 1st Design; NOTE: Services Engine
		2004-07	220-1103	Torque To Yield, 2nd Design; NOTE: Services Engine
Head Saver Shim		2002-07	230-2186	New Hgt. - 4.732; Min. Hgt. - N/A

73 294 C.I., (4.8L), OHV, GAS, FI, 16 Valve, Vin C, LY2, ""Vortec"" GMT4.8-LY2
 2007-09 V8 294 CID BORE - 96mm/3.78""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2007-09	SB2062-51	2 ¹ / ₁₆ O.D., 1.750T I.D., 0.3900 Depth, Also Available In Non-Magnetic (N) Material
		2007-09	SB2062-51PM	2 ¹ / ₁₆ O.D., 1.750T I.D., 0.3900 Depth, OEM Equivalent PM Material
	Exh	2007-09	SB1625-64	1 ⁵ / ₈ O.D., 1.335T I.D., 0.4200 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		2007-09	SB1625-64N	1 ⁵ / ₈ O.D., 1.335T I.D., 0.4200 Depth, LPG
	2007-09	SB1625-64PM	1 ⁵ / ₈ O.D., 1.335T I.D., 0.4200 Depth, OEM Equivalent PM Material,	
Valve	Int	2007-08	02000	2.000 Head Diameter
		2009-09	02267	2.000 Head Diameter
	Exh	2007-09	01935	1.551 Head Diameter
		2007-09	01935S	1.551 Head Diameter, Stellite Face, LPG
Keeper	Both	2007-09	121-1085	1 RD Bead Type
Stem Seal	Int	2007-09	122-1337	Positive Type, Viton Material, Top Hat Style

(Cont'd) GM TRUCK / PASSENGER TRUCK

294 C.I., (4.8L), OHV, GAS, FI, 16 Valve, Vin C, LY2, ""Vortec""
2007-09 V8 294 CID

GMT4.8-LY2 73
BORE - 96mm/3.78"" (cont.)

PART		YEARS	PART NO.	NOTES
Stem Seal	Exh	2007-09	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2007-09	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2007-09	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2007-09	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2007-09	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2007-09	160-1488	2.130 Length,Conical
Lifter	Both	2007-09	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490
		2007-09	VL559G	Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
Rocker Components	Both	2007-09	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2007-09	190-1537	7.397 Length
Head Bolt Set		2007-09	220-1103	Torque To Yield,NOTE: Services Engine

294 C.I., (4.8L), OHV, FLEX, FI, 16 Valve, Vin A, F, L20, ""Vortec""
2010-17 V8 294 CID

GMT4.8-L20 74
BORE - 96mm/3.78""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	2010-17	SB1625-64	1% O.D.,1.335T I.D.,0.4200 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		2010-17	SB1625-64N	1% O.D.,1.335T I.D.,0.4200 Depth,LPG
		2010-17	SB1625-64PM	1% O.D.,1.335T I.D.,0.4200 Depth,OEM Equivalent PM Material,
Valve	Int	2010-17	13244	2.000 Head Diameter
	Exh	2010-17	01935	1.551 Head Diameter
		2010-17	01935S	1.551 Head Diameter,Stellite Face,LPG
Keeper	Both	2010-17	121-1085	1 RD Bead Type
Stem Seal	Int	2010-17	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2010-17	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2010-17	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2010-17	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2010-17	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2010-17	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2010-17	160-1488	2.130 Length,Conical
Lifter	Both	2010-17	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490
		2010-17	VL559G	Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
Rocker Components	Both	2010-17	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2010-17	190-1537	7.397 Length
Head Bolt Set		2010-17	220-1123	Torque To Yield,Services Engine

GM TRUCK / PASSENGER TRUCK (Cont'd)

75 305 C.I., (5.0L), OHV, GAS, CARB, 12 Valve
1960-68 V6 305 CID

GMT305A-D
BORE - 107.9mm/4.25"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1960-68	SB2062-1	2 ¹ / ₁₆ O.D., 1 ¹³ / ₁₆ T I.D., 1/4 Depth
	Exh	1960-68	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Stem Seal	Both	1960-68	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
Guide	Int	1960-68	140-5612	0.3440 I.D., 2.875 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1960-68	140-9612	0.3440 I.D., 2.875 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	1960-68	140-7259	0.3430 I.D., 3.063 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1960-68	140-9259	0.3430 I.D., 3.063 Length, 0.5020 O.D., Spiral I.D. Conversion Guide

76 305 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, Vin F, G, H, Q, U
1976-87 V8 305 CID

GMT305CA
BORE - 94.9mm/3.74"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1976-80	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., 7/32 Depth
		1981-87	SB1937-17	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., 7/32 Depth
	Exh	1976-87	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, Exc. LPG
		1976-87	SB1562-1N	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth, LPG
Valve	Int	1976-80	01193	1.720 Head Diameter, +3 & +15 O/S Stem Available
		1981-87	01393	1.840 Head Diameter, +3 & +15 O/S Stem Available
	Exh	1976-87	01192	1.500 Head Diameter, W/ .3412T Stem Dia. +3 & +15 O/S Stem Available
		1976-87	01294S	1.500 Head Diameter, Stellite Face, W/ .3718T Stem Dia., +15 O/S Stem Available
		1976-87	01646S	1.500 Head Diameter, Inconel, Stellite Face, W/ .3719 Stem Dia., Optional, LPG
Keeper	Both	1976-87	121-1003	1 SQ Bead Type
Stem Seal	Int	1976-87	122-1075	Positive Type, Viton Material, Ring & Band Style
		1976-87	122-1233	Umbrella Type, Nylon Material, Umbrella Style, W/ .341 Stem Dia.
	Both	1976-87	122-1234	Umbrella Type, Nylon Material, Umbrella Style, W/ .3718 Stem Dia.
		1976-87	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1976-87	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1976-87	122-1048	Positive Type, Poly Material, 2-Ring Style, W/ .341 Stem Dia. & Use W/ Factory Guide Boss
		1976-87	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ 1 ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		1976-87	122-1270	Umbrella Type, Viton Material, Umbrella Style
Guide	Int	1976-87	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
		1976-87	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
	Exh	1976-87	140-6107	0.3740 I.D., 2.250 Length, 0.5020 O.D., Use W/ .371 Valve Stem Dia., Plain I.D. Conversion Guide
		1976-87	140-9107	0.3740 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, W/ .371 Valve Stem Dia
		1976-87	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

305 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, Vin F, G, H, Q, U
1976-87 V8 305 CID

GMT305CA 76
BORE - 94.9mm/3.74" (cont.)

PART	YEARS	PART NO.	NOTES	
Spring	Exh	1976-77	160-1009	1.910 Length,W/ Damper
	Both	1976-87	160-1144	2.048 Length,W/ Damper,Exc. 1976-77 Exh
		1976-87	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		1976-87	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Lifter	Both	1976-87	VL37	Hydraulic Type
Rocker Components	Both	1976-87	180-1228	Rocker Arm
		1976-87	180-1239	Rocker Arm, Stamped, Long Slot
		1976-87	180-1283	Rocker Arm, Rail Type,Optional
		1976-87	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
	1976-87	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut,High Perf., W/ 1.5:1 Ratio	
	1976-87	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional	
	1976-87	183-1017	Smooth Ball, 3/8	
	1976-87	183-1032	Grooved Ball, 3/8	
1976-87	184-1038	Nut, 3/8		
Push Rod	Both	1976-87	192-1331	7.793 Length
Head Bolt Set		1976-87	220-1018	This bolt is NOT Torque to Yield,2 Required

305 C.I., (5.0L), OHV, GAS, FI, 16 Valve, Vin H, M
1988-02 V8 305 CID

GMT305FI 77
BORE - 94.9mm/3.74" (cont.)

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-02	SB1937-17	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., 7/32 Depth
	Exh	1988-02	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ¹⁵ / ₁₆ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,Exc. LPG
		1988-02	SB1562-1N	1 ⁹ / ₁₆ O.D., 1 ¹⁵ / ₁₆ I.D., 7/32 Depth, LPG
Valve	Int	1988-95	01393	1.840 Head Diameter,0.3413 Stem Dia., +3 & +15 O/S Stem Available
		1996-02	01806	1.840 Head Diameter,1 Groove,W/ .3412 Stem Dia.,
	Exh	1988-95	01192	1.500 Head Diameter,W/ .3412T Stem Dia. +3 & +15 O/S Stem Available
		1988-95	01294S	1.500 Head Diameter,Stellite Face,W/ .3718T Stem Dia., +15 O/S Stem Available
		1988-95	01646S	1.500 Head Diameter,Inconel, Stellite Face,W/ .3719 Stem Dia., Optional, LPG
		1996-02	01807	1.500 Head Diameter,1 Groove,W/ .3413T Stem Dia., 1 Groove, +15 O/S Available
		1996-02	01807S	1.500 Head Diameter,Stellite Face,W/ .3413T Stem Dia., 1 Groove, +15 O/S Stem Available, LPG
Keeper	Both	1988-02	121-1003	1 SQ Bead Type
Stem Seal	Int	1988-97	122-1075	Positive Type,Viton Material,Ring & Band Style
		1988-97	122-1233	Umbrella Type,Nylon Material,Umbrella Style,W/.341 Stem Dia.
	Both	1988-97	122-1234	Umbrella Type,Nylon Material,Umbrella Style,W/.3718 Stem Dia.
		1988-95	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1988-95	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		1998-02	122-1260	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1988-02	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)

GM TRUCK / PASSENGER TRUCK (Cont'd)

77 305 C.I., (5.0L), OHV, GAS, FI, 16 Valve, Vin H, M GMT305FI
 (cont.) 1988-02 V8 305 CID BORE - 94.9mm/3.74"

PART		YEARS	PART NO.	NOTES
Guide	Exh	1988-02	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
		1988-95	140-6107	0.3740 I.D.,2.250 Length,0.5020 O.D.,Use W/ .371 Valve Stem Dia., Plain I.D. Conversion Guide
		1988-95	140-9107	0.3740 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,W/ .371 Valve Stem Dia
	Both	1988-02	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
Spring	Both	1988-95	160-1144	2.048 Length,W/ Damper
		1988-95	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		1988-95	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
		1996-02	160-1266	2.040 Length
Rotator	Exh	1988-98	161-1012	
Lifter	Both	1988-95	VL37	Hydraulic Type
		1996-02	VL115	Hydraulic Roller Type,Always Install Oil Hole Up To Valley On "V" Style Engines.
Rocker Components	Both	1988-02	180-1228	Rocker Arm
		1988-02	180-1239	Rocker Arm, Stamped, Long Slot
		1988-02	180-1283	Rocker Arm, Rail Type,Optional
		1988-02	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1988-02	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut,High Perf., W/ 1.5:1 Ratio
		1988-02	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional
		1988-02	183-1017	Smooth Ball, 3/8
		1988-02	183-1032	Grooved Ball, 3/8
1988-02	184-1038	Nut, 3/8		
Push Rod	Both	1988-95	192-1331	7.793 Length
		1996-02	192-1485	7.195 Length

78 307 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, Vin A, B, E, F, H, P, U, X GMT307
 1968-73 V8 307 CID BORE - 98.4mm/3.88"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1968-73	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth,W/ 1.720 Valve Head Dia.
		1968-73	SB2125-1	2 ¹ / ₈ O.D.,1 ¹³ / ₁₆ I.D., ¹ / ₄ Depth,W/ 1.940 Valve Head Dia.
	Exh	1968-73	SB1562-2	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ T I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	1968-71	00399	1.720 Head Diameter,1968-70 All, 1971 Vandura 1st Type, Sprint, +15 O/S Stem Available
		1971-73	01193	1.720 Head Diameter,1971 Vandura 2nd Type, 1972-73 Sprint, Series 25, 35 Exc. Suburban, +3 & +15 O/S Stem Available
		1973-73	01195	1.940 Head Diameter,Series 15 Blazer, Jimmy, Series 25 Suburban, +3 & +15 O/S Stem Available
	Exh	1968-71	00400	1.500 Head Diameter,All, 1971 Vandura 1st Type, +3 & +15 O/S Stem Available
		1968-73	01206S	1.500 Head Diameter,Stellite Face,Optional Material & Chrome Plated, +15 O/S Stem Available
		1971-73	01192	1.500 Head Diameter,Series 15, 25, 35 & Sprint, 1971 Vandura 2nd Type., +3 & +15 O/S Stem Available
Keeper	Both	1968-73	121-1003	1 SQ Bead Type
Stem Seal	Int	1968-73	122-1075	Positive Type,Viton Material, Ring & Band Style

(Cont'd) GM TRUCK / PASSENGER TRUCK

307 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, Vin A, B, E, F, H, P, U, X
1968-73 V8 307 CID

GMT307 78
BORE - 98.4mm/3.88" (cont.)

PART		YEARS	PART NO.	NOTES
Stem Seal	Exh	1968-73	122-1233	Umbrella Type,Nylon Material,Umbrella Style
	Both	1968-73	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1968-73	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
	Both	1968-73	122-1048	Positive Type,Poly Material,2-Ring Style,W/ .341 Stem Dia. & Use W/ Factory Guide Boss
		1968-73	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		1968-73	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Both	1968-73	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1968-73	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Exh	1972-73	160-1009	1.910 Length,W/ Damper
	Both	1968-73	160-1144	2.048 Length,W/ Damper
		1968-73	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		1968-73	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Lifter	Both	1968-73	VL37	Hydraulic Type
Rocker Components	Both	1968-73	180-1228	Rocker Arm
		1968-73	180-1239	Rocker Arm, Stamped, Long Slot
		1968-73	180-1283	Rocker Arm, Rail Type,Optional
		1968-73	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut
		1968-73	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) ³ / ₈ Nut,High Perf., W/ 1.5:1 Ratio
		1968-73	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) ³ / ₈ Nut,Optional
		1968-73	183-1017	Smooth Ball, ³ / ₈
		1968-73	183-1032	Grooved Ball, ³ / ₈
1968-73	184-1038	Nut, ³ / ₈		
Push Rod	Both	1968-73	192-1331	7.793 Length

323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin B, L33, ""H.O. Vortec""
2005-07 V8 323 CID

GMT5.3-L33 79
BORE - 96mm/3.78" (cont.)

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2005-07	SB2062-51	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,Also Available In Non-Magnetic (N) Material
		2005-07	SB2062-51PM	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,OEM Equivalent PM Material
	Exh	2005-07	SB1625-64	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		2005-07	SB1625-64N	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,LPG
		2005-07	SB1625-64PM	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,OEM Equivalent PM Material,
Valve	Int	2005-07	02000	2.000 Head Diameter
	Exh	2005-07	01935	1.551 Head Diameter
		2005-07	01935S	1.551 Head Diameter,Stellite Face,LPG
Keeper	Both	2005-07	121-1085	1 RD Bead Type
Stem Seal	Int	2005-07	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2005-07	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2005-07	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2005-07	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version

GM TRUCK / PASSENGER TRUCK (Cont'd)

79 323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin B, L33, ""H.O. Vortec"" GMT5.3-L33
 (cont.) 2005-07 V8 323 CID BORE - 96mm/3.78""

PART		YEARS	PART NO.	NOTES
Guide	Both	2005-07	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2005-07	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2005-07	160-1488	2.130 Length,Conical
Lifter	Both	2005-07	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490
		2005-07	VL559G	Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
Rocker Components	Both	2005-07	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2005-07	190-1537	7.397 Length
Head Bolt Set		2005-07	220-1103	Torque To Yield,NOTE: Services Engine

80 323 C.I., (5.3L), OHV, FLEX, FI, 16 Valve, Vin Z, L59, ""Vortec"" GMT5.3-L59
 2002-07 V8 323 CID BORE - 96mm/3.78""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2002-07	SB2062-50	2 ¹ / ₁₆ O.D.,1.750 I.D.,0.4200 Depth,Also Available In Non-Magnetic (N) Material
		2002-07	SB2062-50N	2 ¹ / ₁₆ O.D.,1.750 I.D.,0.4200 Depth,LPG
	Exh	2002-07	SB1625-64	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		2002-07	SB1625-64N	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,LPG
		2002-07	SB1625-64PM	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,OEM Equivalent PM Material,
Valve	Int	2002-07	01934	1.890 Head Diameter
		2002-07	01934S	1.890 Head Diameter,Stellite Face,LPG
	Exh	2002-07	01935	1.551 Head Diameter
		2002-07	01935S	1.551 Head Diameter,Stellite Face,LPG
Keeper	Both	2002-07	121-1085	1 RD Bead Type
Stem Seal	Int	2002-07	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2002-07	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2002-07	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2002-07	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2002-07	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2002-07	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2002-07	160-1488	2.130 Length,Conical
Lifter	Both	2002-07	VL115	Hydraulic Roller Type,Always Install Oil Hole Up To Valley On ""V"" Style Engines. ,Non-Active Fuel Management
Rocker Components	Both	2002-07	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2002-07	190-1537	7.397 Length
Head Bolt Set		2002-04	220-1102	Torque To Yield,1st Design; NOTE: Services Engine
		2004-07	220-1103	Torque To Yield,2nd Design; NOTE: Services Engine
Head Saver Shim		2002-07	230-2186	New Hgt. - 4.732; Min. Hgt. - N/A

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

323 C.I., (5.3L), OHV, FLEX, FI, 16 Valve, Vin 3, 7, LC9, ""AFM Vortec"" **GMT5.3-LC9 81**
2007-14 V8 323 CID **BORE - 96mm/3.78""**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2007-14	SB2062-51	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,Also Available In Non-Magnetic (N) Material
		2007-14	SB2062-51PM	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,OEM Equivalent PM Material
	Exh	2007-14	SB1625-64	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		2007-14	SB1625-64N	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,LPG
		2007-14	SB1625-64PM	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,OEM Equivalent PM Material,
Valve	Int	2007-08	02000	2.000 Head Diameter
		2009-14	13244	2.000 Head Diameter
	Exh	2007-14	01935	1.551 Head Diameter
		2007-14	01935S	1.551 Head Diameter,Stellite Face,LPG
Keeper	Both	2007-14	121-1085	1 RD Bead Type
Stem Seal	Int	2007-14	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2007-14	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2007-14	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2007-14	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2007-14	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2007-14	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2007-14	160-1488	2.130 Length,Conical
Lifter	Both	2007-14	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2007-14	VL558E	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2007-14	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2007-14	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2007-14	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required
Rocker Components	Both	2007-14	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2007-14	190-1537	7.397 Length
Head Bolt Set		2007-14	220-1123	Torque To Yield,Services Engine

323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin M, LH6, ""AFM Vortec"" **GMT5.3-LH6 82**
2005-09 V8 323 CID **BORE - 96mm/3.78""**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2005-09	SB2062-51	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,Also Available In Non-Magnetic (N) Material
		2005-09	SB2062-51PM	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,OEM Equivalent PM Material
	Exh	2005-09	SB1625-64	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		2005-09	SB1625-64N	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,LPG

GM TRUCK / PASSENGER TRUCK (Cont'd)

82 323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin M, LH6, ""AFM Vortec""
(cont.) 2005-09 V8 323 CID

GMT5.3-LH6
BORE - 96mm/3.78""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	2005-09	SB1625-64PM	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,OEM Equivalent PM Material,
Valve	Int	2005-08	02000	2.000 Head Diameter
		2009-09	02267	2.000 Head Diameter
	Exh	2005-09	01935	1.551 Head Diameter
		2005-09	01935S	1.551 Head Diameter,Stellite Face,LPG
Keeper	Both	2005-09	121-1085	1 RD Bead Type
Stem Seal	Int	2005-09	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2005-09	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2005-09	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2005-09	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2005-09	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2005-09	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2005-09	160-1488	2.130 Length,Conical
Lifter	Both	2005-09	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2005-09	VL558E	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2005-09	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2005-09	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2005-09	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required
Rocker Components	Both	2005-09	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2005-09	190-1537	7.397 Length
Head Bolt Set		2005-09	220-1103	Torque To Yield,NOTE: Services Engine

83 323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin L, LH8, ""Vortec""
2008-09 V8 323 CID

GMT5.3-LH8
BORE - 96mm/3.78""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2008-09	SB2062-51	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,Also Available In Non-Magnetic (N) Material
		2008-09	SB2062-51PM	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,OEM Equivalent PM Material
	Exh	2008-09	SB1625-64	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		2008-09	SB1625-64N	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,LPG
		2008-09	SB1625-64PM	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,OEM Equivalent PM Material,
Valve	Int	2008-08	02000	2.000 Head Diameter
		2009-09	02267	2.000 Head Diameter
	Exh	2008-09	01935	1.551 Head Diameter
		2008-09	01935S	1.551 Head Diameter,Stellite Face,LPG
Keeper	Both	2008-09	121-1085	1 RD Bead Type

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin L, LH8, ""Vortec""
2008-09 V8 323 CID

GMT5.3-LH8 83
BORE - 96mm/3.78"" (cont.)

PART	YEARS	PART NO.	NOTES	
Stem Seal	Int	2008-09	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2008-09	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2008-09	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2008-09	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2008-09	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2008-09	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2008-09	160-1488	2.130 Length,Conical
Lifter	Both	2008-09	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490
		2008-09	VL559G	Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
Rocker Components	Both	2008-09	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2008-09	190-1537	7.397 Length

323 C.I., (5.3L), OHV, FLEX, GAS, FI, 16 Valve, Vin P, LH9, ""Vortec""
2010-12 V8 323 CID

GMT5.3-LH9 84
BORE - 96mm/3.78""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2010-12	SB2062-51	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,Also Available In Non-Magnetic (N) Material
		2010-12	SB2062-51PM	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,OEM Equivalent PM Material
	Exh	2010-12	SB1625-64	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		2010-12	SB1625-64N	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,LPG
		2010-12	SB1625-64PM	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,OEM Equivalent PM Material,
Valve	Int	2010-12	13244	2.000 Head Diameter
	Exh	2010-12	01935	1.551 Head Diameter
		2010-12	01935S	1.551 Head Diameter,Stellite Face,LPG
Keeper	Both	2010-12	121-1085	1 RD Bead Type
Stem Seal	Int	2010-12	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2010-12	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2010-12	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2010-12	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2010-12	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2010-12	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2010-12	160-1488	2.130 Length,Conical
Lifter	Both	2010-12	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490
		2010-12	VL559G	Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
Rocker Components	Both	2010-12	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2010-12	190-1537	7.397 Length

GM TRUCK / PASSENGER TRUCK (Cont'd)

84 323 C.I., (5.3L), OHV, FLEX, GAS, FI, 16 Valve, Vin P, LH9, ""Vortec"" GMT5.3-LH9
(cont.) 2010-12 V8 323 CID BORE - 96mm/3.78""

PART	YEARS	PART NO.	NOTES
Head Bolt Set	2010-12	220-1123	Torque To Yield,Services Engine

85 323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin P, LM4, ""Vortec"" GMT5.3-LM4
2003-04 V8 323 CID BORE - 96mm/3.78""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2003-04	SB2062-50	2 ¹ / ₁₆ O.D.,1.750 I.D.,0.4200 Depth,Also Available In Non-Magnetic (N) Material
		2003-04	SB2062-50N	2 ¹ / ₁₆ O.D.,1.750 I.D.,0.4200 Depth,LPG
	Exh	2003-04	SB1625-64	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		2003-04	SB1625-64N	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,LPG
		2003-04	SB1625-64PM	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,OEM Equivalent PM Material,
Valve	Int	2003-04	01934	1.890 Head Diameter
		2003-04	01934S	1.890 Head Diameter,Stellite Face,LPG
	Exh	2003-04	01935	1.551 Head Diameter
		2003-04	01935S	1.551 Head Diameter,Stellite Face,LPG
Keeper	Both	2003-04	121-1085	1 RD Bead Type
Stem Seal	Int	2003-04	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2003-04	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2003-04	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2003-04	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2003-04	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2003-04	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2003-04	160-1488	2.130 Length,Conical
Lifter	Both	2003-04	VL115	Hydraulic Roller Type,Always Install Oil Hole Up To Valley On ""V"" Style Engines. ,Non-Active Fuel Management
Rocker Components	Both	2003-04	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2003-04	190-1537	7.397 Length
Head Bolt Set		2003-04	220-1102	Torque To Yield,1st Design; NOTE: Services Engine
		2004-04	220-1103	Torque To Yield,2nd Design; NOTE: Services Engine
Head Saver Shim		2003-04	230-2186	New Hgt. - 4.732; Min. Hgt. - N/A

86 323 C.I., (5.3L), OHV, ELECTRIC/GAS, FI, 16 Valve, Vin T, LM7, ""Vortec"" GMT5.3-LM7
1999-07 V8 323 CID BORE - 96mm/3.78""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1999-07	SB2062-50	2 ¹ / ₁₆ O.D.,1.750 I.D.,0.4200 Depth,Also Available In Non-Magnetic (N) Material
		1999-07	SB2062-50N	2 ¹ / ₁₆ O.D.,1.750 I.D.,0.4200 Depth,LPG
	Exh	1999-07	SB1625-64	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		1999-07	SB1625-64N	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,LPG
		1999-07	SB1625-64PM	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,OEM Equivalent PM Material,
Valve	Int	1999-07	01934	1.890 Head Diameter
		1999-07	01934S	1.890 Head Diameter,Stellite Face,LPG
	Exh	1999-07	01935	1.551 Head Diameter
		1999-07	01935S	1.551 Head Diameter,Stellite Face,LPG

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

323 C.I., (5.3L), OHV, ELECTRIC/GAS, FI, 16 Valve, Vin T, LM7, ""Vortec"" GMT5.3-LM7 86
1999-07 V8 323 CID BORE - 96mm/3.78"" (cont.)

PART	YEARS	PART NO.	NOTES
Keeper	Both	1999-07 121-1085	1 RD Bead Type
Stem Seal	Int	2001-07 122-1337	Positive Type,Viton Material,Top Hat Style,2nd Design.
	Exh	2001-07 122-1338	Positive Type,Viton Material,Top Hat Style,2nd Design.
	Both	1999-01 122-1323	Positive Type,Viton Material,Metal Clad Style,1st Design
Guide	Both	1999-07 140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		1999-07 140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		1999-07 140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		1999-07 340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	1999-07 160-1488	2.130 Length,Conical
Lifter	Both	1999-07 VL115	Hydraulic Roller Type,Always Install Oil Hole Up To Valley On ""V"" Style Engines. ,Non-Active Fuel Management
Rocker Components	Both	1999-07 180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	1999-07 190-1537	7.397 Length
Head Bolt Set		1999-04 220-1102	Torque To Yield,1st Design; NOTE: Services Engine
		2004-07 220-1103	Torque To Yield,2nd Design; NOTE: Services Engine
Head Saver Shim		2002-07 230-2186	New Hgt. - 4.732; Min. Hgt. - N/A

323 C.I., (5.3L), OHV, FLEX, GAS, FI, 16 Valve, Vin 4, LMF, ""Vortec"" GMT5.3-LMF 87
2008-14 V8 323 CID BORE - 96mm/3.78""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2008-14 SB2062-51	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,Also Available In Non-Magnetic (N) Material
		2008-14 SB2062-51PM	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,OEM Equivalent PM Material
	Exh	2008-14 SB1625-64	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		2008-14 SB1625-64N	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,LPG
		2008-14 SB1625-64PM	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,OEM Equivalent PM Material,
Valve	Int	2008-14 13244	2.000 Head Diameter
	Exh	2008-14 01935	1.551 Head Diameter
		2008-14 01935S	1.551 Head Diameter,Stellite Face,LPG
Keeper	Both	2008-14 121-1085	1 RD Bead Type
Stem Seal	Int	2008-14 122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2008-14 122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2008-14 140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2008-14 140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2008-14 140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2008-14 340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2008-14 160-1488	2.130 Length,Conical
Lifter	Both	2008-14 VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490

GM TRUCK / PASSENGER TRUCK (Cont'd)

87 323 C.I., (5.3L), OHV, FLEX, GAS, FI, 16 Valve, Vin 4, LMF, ""Vortec"" GMT5.3-LMF
(cont.) 2008-14 V8 323 CID BORE - 96mm/3.78""

PART	YEARS	PART NO.	NOTES	
Lifter	Both	2008-14	VL559G	Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
Rocker Components	Both	2008-14	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2008-14	190-1537	7.397 Length
Head Bolt Set		2008-14	220-1123	Torque To Yield,Services Engine

88 323 C.I., (5.3L), OHV, FLEX, FI, 16 Valve, Vin 0, LMG, ""AFM Vortec"" GMT5.3-LMG
2007-14 V8 323 CID BORE - 96mm/3.78""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2007-14	SB2062-51	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,Also Available In Non-Magnetic (N) Material
		2007-14	SB2062-51PM	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,OEM Equivalent PM Material
	Exh	2007-14	SB1625-64	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		2007-14	SB1625-64N	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,LPG
		2007-14	SB1625-64PM	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,OEM Equivalent PM Material,
Valve	Int	2007-08	02000	2.000 Head Diameter
		2009-14	13244	2.000 Head Diameter
	Exh	2007-14	01935	1.551 Head Diameter
		2007-14	01935S	1.551 Head Diameter,Stellite Face,LPG
Keeper	Both	2007-14	121-1085	1 RD Bead Type
Stem Seal	Int	2007-14	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2007-14	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2007-14	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2007-14	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2007-14	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2007-14	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2007-14	160-1488	2.130 Length,Conical
Lifter	Both	2007-14	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2007-14	VL558E	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2007-14	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2007-14	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2007-14	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required
Rocker Components	Both	2007-14	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2007-14	190-1537	7.397 Length
Head Bolt Set		2007-14	220-1123	Torque To Yield,Services Engine

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin J, LY5, ""AFM Vortec""
2007-09 V8 323 CID

GMT5.3-LY5 **89**
BORE - 96mm/3.78""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2007-09	SB2062-51	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,Also Available In Non-Magnetic (N) Material
		2007-09	SB2062-51PM	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,OEM Equivalent PM Material
	Exh	2007-09	SB1625-64	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		2007-09	SB1625-64N	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,LPG
		2007-09	SB1625-64PM	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,OEM Equivalent PM Material,
Valve	Int	2007-08	02000	2.000 Head Diameter
		2009-09	13244	2.000 Head Diameter
	Exh	2007-09	01935	1.551 Head Diameter
		2007-09	01935S	1.551 Head Diameter,Stellite Face,LPG
Keeper	Both	2007-09	121-1085	1 RD Bead Type
Stem Seal	Int	2007-09	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2007-09	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2007-09	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2007-09	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2007-09	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2007-09	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2007-09	160-1488	2.130 Length,Conical
Lifter	Both	2007-09	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2007-09	VL558E	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2007-09	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2007-09	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2007-09	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required
Rocker Components	Both	2007-09	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2007-09	190-1537	7.397 Length
Head Bolt Set		2007-09	220-1123	Torque To Yield,Services Engine

325 C.I., (5.3L), OHV, FLEX, GAS, FI, 16 Valve, Vin C, L83, ""AFM EcoTec3""
2014-20 V8 325 CID

GMT5.3-L83 **90**
BORE - 96mm/3.78""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2014-20	13432	1.929 Head Diameter
	Exh	2014-20	13433	1.555 Head Diameter
Keeper	Both	2014-20	121-1085	1 RD Bead Type
Stem Seal	Int	2014-19	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2014-19	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2014-20	140-3204	0.3150 I.D.,2.235 Length,0.5000 O.D.

GM TRUCK / PASSENGER TRUCK (Cont'd)

90 325 C.I., (5.3L), OHV, FLEX, GAS, FI, 16 Valve, Vin C, L83, ""AFM
 (cont.) EcoTec3""
 2014-20 V8 325 CID

GMT5.3-L83
 BORE - 96mm/3.78""

PART	YEARS	PART NO.	NOTES	
Spring	Both	2014-20	160-1688	2.253 Length,Conical
Lifter	Both	2014-20	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2014-20	VL558E	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2014-20	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2014-20	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2014-20	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required
		2014-20	VL559G	Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
Push Rod	Both	2014-20	190-1555	7.850 Length

91 325 C.I., (5.3L), OHV, FLEX, GAS, FI, 16 Valve, Vin F, L82, ""AFM
 EcoTec3""
 2019-21 V8 325 CID

GMT5.3-L82
 BORE - 96mm/3.78""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2019-20	13432	1.929 Head Diameter
	Exh	2019-20	13433	1.555 Head Diameter
Keeper	Both	2019-20	121-1085	1 RD Bead Type
Stem Seal	Int	2019-19	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2019-19	122-1338	Positive Type,Viton Material,Top Hat Style
Spring	Both	2019-20	160-1688	2.253 Length,Conical
Lifter	Both	2019-20	VL558	AFM Hydraulic Roller Type,W/Spring,Active Lifter
		2019-20	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Lifter
Push Rod	Both	2019-20	190-1555	7.850 Length

92 325 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin D, L84, ""DFM EcoTec3""
 2019-21 V8 325 CID

GMT5.3-L84
 BORE - 96mm/3.78""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2019-20	13432	1.929 Head Diameter
	Exh	2019-20	13433	1.555 Head Diameter
Keeper	Both	2019-20	121-1085	1 RD Bead Type
Stem Seal	Int	2019-19	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2019-19	122-1338	Positive Type,Viton Material,Top Hat Style
Spring	Both	2019-20	160-1688	2.253 Length,Conical
Lifter	Both	2019-20	VL558	AFM Hydraulic Roller Type,W/Spring,Active Lifter
		2019-20	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Lifter
Push Rod	Both	2019-20	190-1555	7.850 Length

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

323 C.I., (5.3L), OHV, ELECTRIC/GAS, FI, 16 Valve, Vin R, L8B, ""AFM EcoTec3 Hybrid""
2016-18 V8 323 CID

93

GMT5.3-L8B
BORE - 96mm/3.78""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2016-18	13432	1.929 Head Diameter
	Exh	2016-18	13433	1.555 Head Diameter
Keeper	Both	2016-18	121-1085	1 RD Bead Type
Stem Seal	Exh	2016-18	122-1338	Positive Type,Viton Material,Top Hat Style
Spring	Both	2016-18	160-1688	2.253 Length,Conical
Lifter	Both	2016-18	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2016-18	VL558E	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2016-18	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2016-18	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2016-18	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required
2016-18	VL559G	Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.		

327 C.I., (5.3L), OHV, GAS, CARB, 16 Valve, Vin E
1964-68 V8 327 CID

94

GMT327
BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1964-68	SB1812-3	1 ³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	1964-68	SB1562-2	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ T I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
	1964-68	SB1562-7	1 ⁹ / ₁₆ O.D.,1 ¹ / ₄ I.D., ¹ / ₄ Depth,Optional Straight I.D.	
Valve	Int	1964-68	00399	1.720 Head Diameter,+15 O/S Stem Available
		1964-68	01193	1.720 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
	Exh	1964-68	00400	1.500 Head Diameter,+3 & +15 O/S Stem Available
		1964-68	01192	1.500 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
1964-68	01206S	1.500 Head Diameter,Stellite Face,Optional Material & Chrome Plated, +15 O/S Stem Available		
Keeper	Both	1964-68	121-1003	1 SQ Bead Type
Stem Seal	Int	1964-68	122-1075	Positive Type,Viton Material,Ring & Band Style
	Exh	1964-68	122-1233	Umbrella Type,Nylon Material,Umbrella Style
	Both	1964-68	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹ / ₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	1964-68	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
		Exh	1964-68	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
	1964-68	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)	
Spring	Both	1964-67	160-1125	2.050 Length,W/ Damper
		1964-68	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		1964-68	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
		1968-68	160-1144	2.048 Length,W/ Damper
Lifter	Both	1964-68	VL37	Hydraulic Type

GM TRUCK / PASSENGER TRUCK (Cont'd)

94 327 C.I., (5.3L), OHV, GAS, CARB, 16 Valve, Vin E GMT327
 (cont.) 1964-68 V8 327 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	1964-68	180-1228	Rocker Arm
		1964-68	180-1239	Rocker Arm, Stamped, Long Slot
		1964-68	180-1283	Rocker Arm, Rail Type,Optional
		1964-68	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1964-68	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut,High Perf., W/ 1.5:1 Ratio
		1964-68	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional
		1964-68	183-1017	Smooth Ball, 3/8
		1964-68	183-1032	Grooved Ball, 3/8
		1964-68	184-1038	Nut, 3/8
Push Rod	Both	1964-68	192-1331	7.793 Length

95 350 C.I., (5.7L), OHV, LPG, CARB, 16 Valve, Vin W 350LP
 1969-74 V8 350 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1969-74	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth,W/ 1.720 Valve Head Dia.
		1969-74	SB2000-7	2.000 O.D.,1 ¹³ / ₁₆ I.D., ⁷ / ₃₂ Depth,W/ 1.940 Valve Head Dia.
		1969-74	SB1562-1N	1 ¹ / ₁₆ O.D.,1 ¹⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth
Valve	Int	1969-74	01194	1.720 Head Diameter
		1969-74	01195	1.940 Head Diameter,+3 & +15 O/S Stem Available
	Exh	1969-74	01646S	1.500 Head Diameter,Inconel, Stellite Face,W/ .3719 Stem Dia.,
Keeper	Both	1969-74	121-1003	1 SQ Bead Type
Stem Seal	Int	1969-74	122-1075	Positive Type,Viton Material, Ring & Band Style
	Exh	1969-74	122-1234	Umbrella Type,Nylon Material,Umbrella Style
	Both	1969-74	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1969-74	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use With 1 ¹ / ₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	1969-74	140-7946	0.3430 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1969-74	140-6107	0.3740 I.D.,2.250 Length,0.5020 O.D.,W/ .371 Valve Stem Dia., Plain I.D. Conversion Guide
	Exh	1969-74	140-9107	0.3740 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,W/ .371 Valve Stem Dia
Spring	Exh	1969-74	160-1009	1.910 Length,W/ Damper
	Both	1969-74	160-1144	2.048 Length,W/ Damper
Lifter	Both	1969-74	VL37	Hydraulic Type
Rocker Components	Both	1969-74	180-1228	Rocker Arm
		1969-74	180-1239	Rocker Arm, Stamped, Long Slot
		1969-74	180-1283	Rocker Arm, Rail Type,Optional
		1969-74	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1969-74	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut,High Perf., W/ 1.5:1 Ratio
		1969-74	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional
		1969-74	183-1017	Smooth Ball, 3/8
		1969-74	183-1032	Grooved Ball, 3/8
		1969-74	184-1038	Nut, 3/8
Push Rod	Both	1969-74	192-1331	7.793 Length

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

350 C.I., (5.7L), OHV, GAS, CARB, 16 Valve, Vin A, B, E, H, J, K, L, M, P, V, Y GMT350CA 96
1969-88 V8 350 CID BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1969-88	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth, W/ 1.720 Valve Head Dia.
		1969-88	SB2000-7	2.000 O.D., 1 ¹³ / ₁₆ I.D., ⁷ / ₃₂ Depth, W/ 1.940 Valve Head Dia.
	Exh	1969-88	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, Exc. LPG
		1969-88	SB1562-1N	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, LPG
Valve	Int	1969-88	01193	1.720 Head Diameter, 0.342 Stem Dia., +3 & +15 O/S Stem Available
		1969-88	01195	1.940 Head Diameter, 0.341 Stem Dia., Chrome Plated, +3 & +15 O/S Stem Available
	Exh	1969-88	01192	1.500 Head Diameter, 0.3412T Stem Dia., +3 & +15 O/S Stem Available
		1969-88	01206S	1.500 Head Diameter, Stellite Face, 0.342 Stem Dia., Chrome Plated, +15 O/S Stem Available
		1969-88	01294S	1.500 Head Diameter, Stellite Face, Chrome Plated, W/ .3718T Stem Dia., Exc. VIN M, +15 O/S Stem Available
		1969-88	01646S	1.500 Head Diameter, Inconel, Stellite Face, W/ .3719 Stem Dia., LPG, VIN M,
Keeper	Both	1969-88	121-1003	1 SQ Bead Type
Stem Seal	Int	1969-88	122-1075	Positive Type, Viton Material, Ring & Band Style
		Exh	1969-88	122-1233	Umbrella Type, Nylon Material, Umbrella Style, W/ .342 Stem Dia.
	1969-88		122-1234	Umbrella Type, Nylon Material, Umbrella Style, W/ .3718 Stem Dia.
	Both		1969-88	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1969-88	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1969-88	122-1048	Positive Type, Poly Material, 2-Ring Style, W/ .341 Stem Dia.
		1969-88	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
1969-88	122-1270	Umbrella Type, Viton Material, Umbrella Style		
Guide	Int	1969-88	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
		Exh	1969-88	140-6107	0.3740 I.D., 2.250 Length, 0.5020 O.D., Use W/ .371 Valve Stem Dia., Plain I.D. Conversion Guide
	1969-88		140-7946	0.3430 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide
	1969-88		140-9107	0.3740 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, W/ .371 Valve Stem Dia
	1969-88		140-9946	0.3430 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	1985-88		140-7999	0.3740 I.D., 2.200 Length, 0.6205 O.D., W/ Replaceable Exh. Guide, Use Caution When Removing Stepped O.D., NOTE: Drive Guide Out Toward Spring Seat
	Both	1969-88	140-8180	0.3430 I.D., 2.275 Length, 0.5577 O.D., Aluminum Heads, +2 O/S Available
		Spring	Exh	1973-80	160-1009	1.910 Length, W/ Damper
Both	1969-88		160-1144	2.048 Length, W/ Damper, Exc. 1973-80 Exh
	1969-88		160-1144HP	2.023 Length, W/ Damper, Hi-Perf.
	1969-88		160-1407	2.140 Length, W/ Damper, Optional Hi-Perf.
Rotator	Exh	1973-88	161-1012	
Lifter	Both	1969-88	VL37	Hydraulic Type
Rocker Components	Both	1969-88	180-1228	Rocker Arm
		1969-88	180-1239	Rocker Arm, Stamped, Long Slot
		1969-88	180-1283	Rocker Arm, Rail Type, Optional

GM TRUCK / PASSENGER TRUCK (Cont'd)

96 350 C.I., (5.7L), OHV, GAS, CARB, 16 Valve, Vin A, B, E, H, J, K, L, M, P, V, Y GMT350CA
 (cont.) 1969-88 V8 350 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	1969-88	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1969-88	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut, High Perf., W/ 1.5:1 Ratio
		1969-88	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut, Optional
		1969-88	183-1017	Smooth Ball, 3/8
		1969-88	183-1032	Grooved Ball, 3/8
		1969-88	184-1038	Nut, 3/8
Push Rod	Both	1969-88	192-1331	7.793 Length
Head Saver Shim		1969-88	230-2028	New Hgt. - Min. Hgt. N/A

97 350 C.I., (5.7L), OHV, CNG, GAS, FI, 16 Valve, Vin K GMT350K
 1989-95 V8 350 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1989-95	SB1812-3	1 13/16 O.D., 1 1/2 T I.D., 7/32 Depth, W/ 1.720 Valve Head Dia.
		1989-95	SB2000-7	2.000 O.D., 1 13/16 I.D., 7/32 Depth, W/ 1.940 Valve Head Dia.
	Exh	1989-95	SB1562-1	1 9/16 O.D., 1 5/16 I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, Exc. LPG
		1989-95	SB1562-1N	1 9/16 O.D., 1 5/16 I.D., 7/32 Depth, LPG
		1989-95	SB1625-3N	1 5/8 O.D., 1 5/16 I.D., 1/4 Depth, W/ Vortec Cylinder Head
Valve	Int	1989-95	01193	1.720 Head Diameter, 0.342 Stem Dia., +3 & +15 O/S Stem Available
		1989-95	01195	1.940 Head Diameter, 0.341 Stem Chrome Plated, +3 & +15 O/S Stem Available
	Exh	1989-95	01206S	1.500 Head Diameter, Stellite Face, 0.342 Stem Dia., Chrome Plated, +15 O/S Stem Available
		1989-95	01294S	1.500 Head Diameter, Stellite Face, Chrome Plated, W/ .3718T Stem Dia., +15 O/S Stem Available
		1989-95	01646S	1.500 Head Diameter, Inconel, Stellite Face, W/ .3719 Stem Dia.,
Keeper	Both	1989-95	121-1003	1 SQ Bead Type
Stem Seal	Int	1989-95	122-1075	Positive Type, Viton Material, Ring & Band Style
		1989-95	122-1233	Umbrella Type, Nylon Material, Umbrella Style, W/ .342 Stem Dia.
	Both	1989-95	122-1234	Umbrella Type, Nylon Material, Umbrella Style, W/ .3718 Stem Dia.
		1989-95	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
	1989-95	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ 1 1/2 Std. Stem, Use 122-1238 +15 For Oversize Stems	
Guide	Int	1989-95	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
		1989-95	140-6107	0.3740 I.D., 2.250 Length, 0.5020 O.D., Use W/ .371 Valve Stem Dia., Plain I.D. Conversion Guide
	Exh	1989-95	140-7946	0.3430 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1989-95	140-7999	0.3740 I.D., 2.200 Length, 0.6205 O.D., W/ Replaceable Exh. Guide, Use Caution When Removing Stepped O.D., NOTE: Drive Guide Out Toward Spring Seat
		1989-95	140-9107	0.3740 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, W/ .371 Valve Stem Dia
		1989-95	140-9946	0.3430 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

350 C.I., (5.7L), OHV, CNG, GAS, FI, 16 Valve, Vin K
1989-95 V8 350 CID

GMT350K **97**
BORE - 101.6mm/4.00" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Both	1989-95 140-8180	0.3430 I.D.,2.275 Length,0.5577 O.D.,Aluminum Heads, +2 O/S Available
Spring	Both	1989-95 1989-95 1989-95 1995-96	160-1144 160-1144HP 160-1407 160-1266 2.048 Length,W/ Damper 2.023 Length,W/ Damper,Hi-Perf. 2.140 Length,W/ Damper,Optional Hi-Perf. 2.040 Length
Rotator	Exh	1989-95 161-1012	
Lifter	Both	1989-95 VL37	Hydraulic Type
Rocker Components	Both	1989-95 1989-95 1989-95 1989-95 1989-95 1989-95 1989-95 1989-95 1989-95 1989-95	180-1228 180-1239 180-1283 181-1011 181-1049 181-1061 183-1017 183-1032 184-1038 Rocker Arm Rocker Arm, Stamped, Long Slot Rocker Arm, Rail Type,Optional Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut,High Perf., W/ 1.5:1 Ratio Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional Smooth Ball, 3/8 Grooved Ball, 3/8 Nut, 3/8
Push Rod	Both	1989-95 192-1331	7.793 Length
Head Bolt Set		1989-95 220-1018	This bolt is NOT Torque to Yield,2 Required
Head Saver Shim		1989-95 230-2028	New Hgt. - Min. Hgt. N/A

350 C.I., (5.7L), OHV, BI-FUEL, CNG, GAS, FI, 16 Valve, Vin R, ""Vortec""
1996-02 V8 350 CID

GMT350R **98**
BORE - 101.6mm/4.00" (cont.)

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1996-02 1996-02 1996-02	SB2000-36 SB1562-1 SB1562-1N 2.000 O.D.,13/4 I.D.,3/16 Depth 19/16 O.D.,15/16 I.D.,7/32 Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 19/16 O.D.,15/16 I.D.,7/32 Depth,LPG Applications
Valve	Int Exh	1996-02 1996-02 1996-02 1996-02	01762R 01931 01807 01807S 1.940 Head Diameter,Optional Stainless Steel, W/O Seal Groove 1.940 Head Diameter,1 Groove,+15 O/S Stem Available 1.500 Head Diameter,1 Groove,+15 O/S Available 1.500 Head Diameter,Stellite Face,LPG Applications, +15 O/S Stem Available
Keeper	Both	1996-02 121-1003	1 SQ Bead Type
Stem Seal	Both	1996-02 122-1260	Positive Type,Viton Material,Metal Clad Style
Guide	Int Exh	1996-02 1996-02	140-9867 140-9946 0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U) 0.3430 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1996-02 160-1266	2.040 Length
Lifter	Both	1996-02 VL115	Hydraulic Roller Type,Always Install Oil Hole Up To Valley On ""V"" Style Engines.
Rocker Components	Both	1996-02 1996-02 1996-02	180-1228 180-1283 181-1011 Rocker Arm Rocker Arm, Rail Type,Optional Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut

GM TRUCK / PASSENGER TRUCK (Cont'd)

98 350 C.I., (5.7L), OHV, BI-FUEL, CNG, GAS, FI, 16 Valve, Vin R, ""Vortec"" GMT350R
 (cont.) 1996-02 V8 350 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	1996-02	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut, Optional
		1996-02	183-1017	Smooth Ball, 3/8
		1996-02	184-1038	Nut, 3/8
Push Rod	Both	1996-02	192-1485	7.195 Length

99 350 C.I., (5.7L), OHV, DIESEL, FI, 16 Valve, Vin Z GMT350Z
 1978-81 V8 350 CID BORE - 103mm/4.06""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1978-81	SB2000-1	2.000 O.D., 1 3/4 I.D., 7/32 Depth, Also Available In Non-Magnetic (N) Material
	Exh	1978-81	SB1687-16	1 11/16 O.D., 1 7/16 I.D., 3/16 Depth
Keeper	Both	1978-81	121-1003	1 SQ Bead Type
Guide	Both	1978-81	140-7562	0.3450 I.D., 2.375 Length, 0.5640 O.D., Plain I.D. Conversion Guide
Spring	Both	1981-81	160-1049	2.010 Length, W/ Damper
Lifter	Both	1981-81	VL114	Hydraulic Roller Type
Rocker Components	Both	1978-79	181-1057	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
		1978-81	183-1027	Fulcrum, Long
		1978-81	183-1028	Bridge, When Replacing, Fulcrum # 183-1027 Must Also Be Used
		1980-81	181-1059	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
Push Rod	Both	1978-79	190-1411	8.234 Length, W/ 5/16 Ball Dia.
		1980-80	190-1438	8.245 Length, W/ 3/8 Ball Dia.
		1980-81	190-1489	7.702 Length, W/ 3/8 Ball Dia.

100 351 C.I., (5.7L), OHV, GAS, CARB, 12 Valve, ""Chevrolet V6"" GMT351
 1960-65 V6 351 CID BORE - 115.9mm/4.56""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1960-65	SB2250-2	2 1/4 O.D., 1 7/8 I.D., 9/32 Depth
Keeper	Exh	1960-65	121-1003	1 SQ Bead Type
Stem Seal	Int	1960-65	122-1031	Positive Type, Poly Material, 2-Ring Style
	Exh	1960-65	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
Guide	Int	1960-65	140-6115	0.3750 I.D., 2.750 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1960-65	140-9115	0.3750 I.D., 2.750 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	1960-65	140-6116	0.4375 I.D., 3.125 Length, 0.6270 O.D., Plain I.D. Conversion Guide
		1960-65	140-9116	0.4375 I.D., 3.125 Length, 0.6270 O.D., Spiral I.D. Conversion Guide

101 351 C.I., (5.7L), OHV, GAS, CARB, 12 Valve, C,E,M, ""Chevrolet V6"" GMT351CEM
 1966-72 V6 351 CID BORE - 115.9mm/4.56""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1966-72	SB2250-2	2 1/4 O.D., 1 7/8 I.D., 9/32 Depth
Keeper	Exh	1966-72	121-1003	1 SQ Bead Type
Stem Seal	Both	1966-72	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
Guide	Int	1966-72	140-6115	0.3750 I.D., 2.750 Length, 0.5020 O.D., Plain I.D. Conversion Guide

(Cont'd) GM TRUCK / PASSENGER TRUCK

351 C.I., (5.7L), OHV, GAS, CARB, 12 Valve, C,E,M, ""Chevrolet V6"" **GMT351CEM 101**
 1966-72 V6 351 CID **BORE - 115.9mm/4.56"" (cont.)**

PART		YEARS	PART NO.	NOTES
Guide	Int	1966-72	140-9115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	1966-72	140-6116	0.4375 I.D.,3.125 Length,0.6270 O.D.,Plain I.D. Conversion Guide
		1966-72	140-9116	0.4375 I.D.,3.125 Length,0.6270 O.D.,Spiral I.D. Conversion Guide

364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin Y, L76, ""AFM Vortec"" **GMT6.0-L76 102**
 2007-09 V8 364 CID **BORE - 101.6mm/4.00""**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2007-09	SB2250-50	2¼ O.D.,1⅞ I.D.,¾ Depth,NOTE: Universal Repair Seat, Requires 2¼"" Cutter.
		2007-09	SB2250-50PM	2¼ O.D.,1⅞ I.D.,¾ Depth,OEM Equivalent PM Material, NOTE: Universal Repair Seat, Requires 2.¼"" Cutter.
	Exh	2007-09	SB1634E-3	1.634 O.D.,1.360T I.D.,0.3000 Depth,NOTE: Services Factory Installed Seat.
		2007-09	SB1634E-3PM	1.634 O.D.,1.360T I.D.,0.3000 Depth,OEM Equivalent PM Material. NOTE: Services Factory Installed Seat.
Valve	Int	2007-09	13040	2.165 Head Diameter
	Exh	2007-09	13042	1.587 Head Diameter
Keeper	Both	2007-09	121-1085	1 RD Bead Type
Stem Seal	Int	2007-09	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2007-09	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2007-09	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2007-09	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2007-09	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2007-09	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2007-09	160-1488	2.130 Length,Conical
Lifter	Both	2007-09	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; NOTE: It Is Recommended To Replace In Sets.
		2007-09	VL558E	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2007-09	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2007-09	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2007-09	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required
Rocker Components	Int	2007-09	180-1336	Rocker Arm, Roller Pivot Assy.,NOTE: Offset, For Use With Large Rectangular Intake Ports; Captive Bearing Design With High Grade Steel Trunion
	Exh	2007-09	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2007-09	190-1537	7.397 Length
Head Bolt Set		2007-09	220-1123	Torque To Yield,Services Engine
Head Saver Shim		2007-09	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

GM TRUCK / PASSENGER TRUCK (Cont'd)

103 364 C.I., (6.0L), OHV, FLEX, GAS, FI, 16 Valve, Vin G, L96, ""Vortec"" GMT6.0-L96
 2010-20 V8 364 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2010-20	SB2250-50 2¼ O.D., 1⅞ I.D., ⅜ Depth, NOTE: Universal Repair Seat, Requires 2¼"" Cutter.
		2010-20	SB2250-50PM 2¼ O.D., 1⅞ I.D., ⅜ Depth, OEM Equivalent PM Material, NOTE: Universal Repair Seat, Requires 2.¼"" Cutter.
	Exh	2010-20	SB1634E-3 1.634 O.D., 1.360T I.D., 0.3000 Depth, NOTE: Services Factory Installed Seat.
		2010-20	SB1634E-3PM 1.634 O.D., 1.360T I.D., 0.3000 Depth, OEM Equivalent PM Material. NOTE: Services Factory Installed Seat.
Valve	Int	2010-20	13240 2.165 Head Diameter
		2010-18	13042 1.587 Head Diameter, Stainless Steel
	Exh	2010-20	13440 1.587 Head Diameter, Inconel
		2017-20	13241S 1.589 Head Diameter, Stellite Face
Keeper	Both	2010-20	121-1085 1 RD Bead Type
Stem Seal	Int	2010-20	122-1337 Positive Type, Viton Material, Top Hat Style
	Exh	2010-20	122-1338 Positive Type, Viton Material, Top Hat Style
Guide	Both	2010-20	140-3053 0.3154 I.D., 2.115 Length, 0.5000 O.D., +2 O/S Available (140-3053+2)
		2010-20	140-3053H 0.3154 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional Hardened Version
		2010-20	140-3053U 0.3054 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional - 010 Undersized I.D.
		2010-20	340-1046BR 0.3150 I.D., 2.120 Length, 0.5010 O.D., NOTE: Optional Bronze Version
Spring	Both	2010-20	160-1488 2.130 Length, Conical
Lifter	Both	2010-20	VL559 Hydraulic Roller Type, Oil Hole Is Positioned In Line With Roller Pin., Non-Active Fuel Management; OEM # 17122490
		2010-20	VL559G Non-AFM Lifter Guide Type, Non-AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
Rocker Components	Int	2017-20	180-1336 Rocker Arm, Roller Pivot Assy.
	Both	2010-20	180-1337 Rocker Arm, Roller Pivot Assy., NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2010-20	190-1537 7.397 Length
Head Bolt Set		2010-20	220-1123 Torque To Yield, Services Engine
Head Saver Shim		2010-20	230-2187 New Hgt. - 4.732; Min. Hgt. - N/A

104 364 C.I., (6.0L), OHV, BI-FUEL, CNG, GAS, FI, 16 Valve, Vin U, LQ4, GMT6.0-LQ4
 ""Vortec"" V8 364 CID BORE - 101.6mm/4.00""
 1999-07

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1999-07	SB2062-51 2⅞ O.D., 1.750T I.D., 0.3900 Depth, Also Available In Non-Magnetic (N) Material
		1999-07	SB2062-51N 2⅞ O.D., 1.750T I.D., 0.3900 Depth, LPG
	Exh	1999-07	SB1625-64 1⅝ O.D., 1.335T I.D., 0.4200 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		1999-07	SB1625-64N 1⅝ O.D., 1.335T I.D., 0.4200 Depth, LPG
Valve	Int	1999-07	02000 2.000 Head Diameter, Unleaded Fuel Only
		1999-07	02267 2.000 Head Diameter, LPG
	Exh	1999-07	01935S 1.551 Head Diameter, Stellite Face, LPG, NOTE: Can Be Used In 1999-2000 LPG Applications, However Stem Dia. Is 0.001"" Larger than 02045.
		2001-07	01935 1.551 Head Diameter, Unleaded Fuel Only
Keeper	Both	1999-07	121-1085 1 RD Bead Type

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

364 C.I., (6.0L), OHV, BI-FUEL, CNG, GAS, FI, 16 Valve, Vin U, LQ4,
""Vortec""
1999-07 V8 364 CID

104
GMT6.0-LQ4 (cont.)
BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Stem Seal	Int	2001-07	122-1337	Positive Type,Viton Material,Top Hat Style,2nd Design.
	Exh	2001-07	122-1338	Positive Type,Viton Material,Top Hat Style,2nd Design.
	Both	1999-01	122-1323	Positive Type,Viton Material,Metal Clad Style,1st Design
Guide	Both	1999-07	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		1999-07	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		1999-07	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
Spring	Both	1999-07	160-1488	2.130 Length,Conical
Lifter	Both	1999-07	VL115	Hydraulic Roller Type,Always Install Oil Hole Up To Valley On ""V"" Style Engines. ,Non-Active Fuel Management
Rocker Components	Both	1999-07	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	1999-07	190-1537	7.397 Length
Head Bolt Set		1999-04	220-1102	Torque To Yield,1st Design; NOTE: Services Engine
		2004-07	220-1103	Torque To Yield,2nd Design; NOTE: Services Engine
Head Saver Shim		2001-07	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin N, LQ9, ""H.O. Vortec""
2002-07 V8 364 CID

GMT6.0-LQ9 **105**
BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2002-06	SB2062-51	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,Also Available In Non-Magnetic (N) Material,W/ 2.000 Head Dia.
		2002-06	SB2062-51PM	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,W/2.00 Head. OEM Equivalent PM Material
		2007-07	SB2250-50	2 ¹ / ₄ O.D.,1 ⁷ / ₈ I.D., ³ / ₈ Depth,W/ 2.165 Head Dia.; NOTE: Universal Repair Seat, Requires 2 ¹ / ₄ "" Cutter.
		2007-07	SB2250-50PM	2 ¹ / ₄ O.D.,1 ⁷ / ₈ I.D., ³ / ₈ Depth,W/2.165"" Head Diameter. OEM Equivalent PM Material, NOTE: Universal Repair Seat, Requires 2.1 ⁴ "" Cutter.
	Exh	2002-06	SB1625-64	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.551 Head Dia.
		2002-06	SB1625-64N	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,W/ 1.551 Head Dia.; LPG
		2002-06	SB1625-64PM	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,W/1.551 Head Diameter. OEM Equivalent PM Material,
		2007-07	SB1634E-3	1.634 O.D.,1.360T I.D.,0.3000 Depth,NOTE: Services Factory Installed Seat.
2007-07	SB1634E-3PM	1.634 O.D.,1.360T I.D.,0.3000 Depth,OEM Equivalent PM Material. NOTE: Services Factory Installed Seat.		
Valve	Int	2002-06	02000	2.000 Head Diameter
		2007-07	13040	2.165 Head Diameter
	Exh	2002-06	01935	1.551 Head Diameter
		2002-06	01935S	1.551 Head Diameter,Stellite Face,LPG
		2007-07	13042	1.587 Head Diameter
Keeper	Both	2002-07	121-1085	1 RD Bead Type
Stem Seal	Int	2002-07	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2002-07	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2002-07	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)

GM TRUCK / PASSENGER TRUCK (Cont'd)

105 364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin N, LQ9, ""H.O. Vortec"" GMT6.0-LQ9
 (cont.) 2002-07 V8 364 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Guide	Both	2002-07	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2002-07	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2002-07	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2002-07	160-1488	2.130 Length,Conical
Lifter	Both	2002-07	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490
		2002-07	VL559G	Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
Rocker Components	Both	2002-07	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2002-07	190-1537	7.397 Length
Head Bolt Set		2002-04	220-1102	Torque To Yield,1st Design; NOTE: Services Engine
		2004-07	220-1103	Torque To Yield,2nd Design; NOTE: Services Engine
Head Saver Shim		2002-07	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

106 364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin H, LS2, ""Vortec"" GMT6.0-LS2
 2005-09 V8 364 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2005-09	SB2062-51	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,Also Available In Non-Magnetic (N) Material
		2005-09	SB2062-51PM	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,OEM Equivalent PM Material
	Exh	2005-09	SB1625-64	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		2005-09	SB1625-64N	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,LPG
		2005-09	SB1625-64PM	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,OEM Equivalent PM Material,
Valve	Int	2005-08	02000	2.000 Head Diameter
		2005-09	02000R-200	2.000 Head Diameter,NOTE: Optional One Piece Stainless Steel Performance Valve W/ Stock Head Dia.; See Performance Catalog For More Details
		2005-09	02000R-202	2.020 Head Diameter,NOTE: Optional One Piece Stainless Steel Performance Valve W/ +0.020 Head Dia.; See Performance Catalog For More Details
	Exh	2005-09	02000R-205	2.050 Head Diameter,NOTE: Optional One Piece Stainless Steel Performance Valve W/ +0.050 Head Dia.; See Performance Catalog For More Details
		2009-09	02267	2.000 Head Diameter
		2005-09	01935	1.551 Head Diameter
		2005-09	01935R-155	1.550 Head Diameter,NOTE: Optional One Piece Stainless Steel Performance Valve W/ Stock Head Dia.; See Performance Catalog For More Details
		2005-09	01935R-157	1.570 Head Diameter,NOTE: Optional One Piece Stainless Steel Performance Valve W/ +0.020 Head Dia.; See Performance Catalog For More Details
		2005-09	01935R-160	1.600 Head Diameter,NOTE: Optional One Piece Stainless Steel Performance Valve W/ +0.050 Head Dia.; See Performance Catalog For More Details
		2005-09	01935S	1.551 Head Diameter,Stellite Face,LPG
Keeper	Both	2005-09	121-1085	1 RD Bead Type
Stem Seal	Int	2005-09	122-1337	Positive Type,Viton Material,Top Hat Style

(Cont'd) GM TRUCK / PASSENGER TRUCK364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin H, LS2, ""Vortec""
2005-09 V8 364 CIDGMT6.0-LS2 **106**
BORE - 101.6mm/4.00"" (cont.)

PART		YEARS	PART NO.	NOTES
Stem Seal	Exh	2005-09	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2005-09	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2005-09	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2005-09	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2005-09	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2005-09	160-1623	2.098 Length,Conical
Lifter	Both	2005-05	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490
		2005-09	VL559G	Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
Rocker Components	Both	2005-09	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2005-09	190-1537	7.397 Length
Head Bolt Set		2005-09	220-1103	Torque To Yield,NOTE: Services Engine
Head Saver Shim		2005-09	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin K, LY6, ""Vortec""
2007-10 V8 364 CIDGMT6.0-LY6 **107**
BORE - 101.6mm/4.00""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2007-10	SB2250-50	2¼ O.D.,1⅞ I.D.,¾ Depth,NOTE: Universal Repair Seat, Requires 2¼"" Cutter.
		2007-10	SB2250-50PM	2¼ O.D.,1⅞ I.D.,¾ Depth,OEM Equivalent PM Material, NOTE: Universal Repair Seat, Requires 2¼"" Cutter.
	Exh	2007-10	SB1634E-3	1.634 O.D.,1.360T I.D.,0.3000 Depth,NOTE: Services Factory Installed Seat.
		2007-10	SB1634E-3PM	1.634 O.D.,1.360T I.D.,0.3000 Depth,OEM Equivalent PM Material. NOTE: Services Factory Installed Seat.
Valve	Int	2007-09	13040	2.165 Head Diameter
		2010-10	13240	2.165 Head Diameter
	Exh	2007-10	13042	1.587 Head Diameter
Keeper	Both	2007-10	121-1085	1 RD Bead Type
Stem Seal	Int	2007-10	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2007-10	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2007-10	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2007-10	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2007-10	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2007-10	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2007-10	160-1488	2.130 Length,Conical
Lifter	Both	2007-10	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490
		2007-10	VL559G	Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.

GM TRUCK / PASSENGER TRUCK (Cont'd)

107 364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin K, LY6, ""Vortec"" GMT6.0-LY6
 (cont.) 2007-10 V8 364 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Rocker Components	Int	2007-10	180-1336	Rocker Arm, Roller Pivot Assy.,NOTE: Offset, For Use With Large Rectangular Intake Ports; Captive Bearing Design With High Grade Steel Trunion
	Exh	2007-10	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2007-10	190-1537	7.397 Length
Head Bolt Set		2007-10	220-1103	Torque To Yield,Services Engine
		2009-10	220-1123	Torque To Yield,Services Engine
Head Saver Shim		2007-10	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

108 364 C.I., (6.0L), OHV, ELECTRIC/GAS, FI, 16 Valve, Vin 5, LFA, ""AFM Vortec Hybrid"" GMT6.0-LFA
 2008-09 V8 364 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2008-09	SB2062-51	2 ¹ / ₁₆ O.D., 1.750T I.D., 0.3900 Depth, Also Available In Non-Magnetic (N) Material
		2008-09	SB2062-51PM	2 ¹ / ₁₆ O.D., 1.750T I.D., 0.3900 Depth, OEM Equivalent PM Material
	Exh	2008-09	SB1625-64	1 ⁵ / ₈ O.D., 1.335T I.D., 0.4200 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		2008-09	SB1625-64N	1 ⁵ / ₈ O.D., 1.335T I.D., 0.4200 Depth, Optional
		2008-09	SB1625-64PM	1 ⁵ / ₈ O.D., 1.335T I.D., 0.4200 Depth, OEM Equivalent PM Material,
Valve	Int	2008-09	02000	2.000 Head Diameter
	Exh	2008-09	01935	1.551 Head Diameter
Keeper	Both	2008-09	121-1085	1 RD Bead Type
Stem Seal	Int	2008-09	122-1337	Positive Type, Viton Material, Top Hat Style
	Exh	2008-09	122-1338	Positive Type, Viton Material, Top Hat Style
Guide	Both	2008-09	140-3053	0.3154 I.D., 2.115 Length, 0.5000 O.D., +2 O/S Available (140-3053+2)
		2008-09	140-3053H	0.3154 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional Hardened Version
		2008-09	140-3053U	0.3054 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional - 010 Undersized I.D.
		2008-09	340-1046BR	0.3150 I.D., 2.120 Length, 0.5010 O.D., NOTE: Optional Bronze Version
Spring	Both	2008-09	160-1488	2.130 Length, Conical
Lifter	Both	2008-09	VL558	AFM Hydraulic Roller Type, W/Spring, Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2008-09	VL558E	AFM Hydraulic Roller Type, W/Spring, Active Fuel Management, 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2008-09	VL558FG	AFM Lifter Guide-Front Type, OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2008-09	VL558RG	AFM Lifter Guide-Rear Type, OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2008-09	VL559	Hydraulic Roller Type, Oil Hole Is Positioned In Line With Roller Pin., Non-Active Fuel Management; OEM # 17122490; 8 Required
Rocker Components	Both	2008-09	180-1337	Rocker Arm, Roller Pivot Assy., NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2008-09	190-1537	7.397 Length

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

364 C.I., (6.0L), OHV, ELECTRIC/GAS, FI, 16 Valve, Vin 5, LFA, ""AFM **108**
Vortec Hybrid"" GMT6.0-LFA (cont.)
2008-09 V8 364 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES
Head Bolt Set	2008-09	220-1123	Torque To Yield,Services Engine
Head Saver Shim	2008-09	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

364 C.I., (6.0L), OHV, ELECTRIC/FLEX, FI, 16 Valve, Vin J, LZ1, ""AFM **109**
Vortec Hybrid"" GMT6.0-LZ1
2010-13 V8 364 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2010-13	SB2062-51	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,Also Available In Non-Magnetic (N) Material
		2010-13	SB2062-51PM	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,OEM Equivalent PM Material
	Exh	2010-13	SB1625-64	1 ⁵ / ₁₆ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		2010-13	SB1625-64PM	1 ⁵ / ₁₆ O.D.,1.335T I.D.,0.4200 Depth,OEM Equivalent PM Material,
Valve	Int	2010-13	13244	2.000 Head Diameter
	Exh	2010-13	01935	1.551 Head Diameter
Keeper	Both	2010-13	121-1085	1 RD Bead Type
Stem Seal	Int	2010-13	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2010-13	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2010-13	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2010-13	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2010-13	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2010-13	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2010-13	160-1488	2.130 Length,Conical
Lifter	Both	2010-13	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2010-13	VL558E	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2010-13	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2010-13	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2010-13	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required
Rocker Components	Both	2010-13	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2010-13	190-1537	7.397 Length
Head Bolt Set		2010-13	220-1123	Torque To Yield,Services Engine
Head Saver Shim		2010-13	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

GM TRUCK / PASSENGER TRUCK (Cont'd)

110 364 C.I., (6.0L), OHV, CNG, FLEX, GAS, FI, 16 Valve, Vin B, LC8, ""Vortec"" GMT6.0-LC8
 2011-20 V8 364 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2011-20	SB2250-50 2¼ O.D., 1⅞ I.D., ¾ Depth, NOTE: Universal Repair Seat, Requires 2¼"" Cutter.
	Exh	2011-20	SB1634E-3N 1.634 O.D., 1.360T I.D., 0.3000 Depth, NOTE: Services Factory Installed Seat.
Valve	Int	2011-20	13240 2.165 Head Diameter
	Exh	2011-15	13042 1.587 Head Diameter, Stainless Steel
		2011-17	13241S 1.589 Head Diameter, Stellite Face, OEM # 12610719
		2011-20	13440 1.587 Head Diameter, Inconel, OEM # 12612427
Keeper	Both	2011-20	121-1085 1 RD Bead Type
Stem Seal	Int	2011-19	122-1337 Positive Type, Viton Material, Top Hat Style
	Exh	2011-19	122-1338 Positive Type, Viton Material, Top Hat Style
Guide	Both	2011-20	140-3053H 0.3154 I.D., 2.115 Length, 0.5000 O.D.
Spring	Both	2011-20	160-1488 2.130 Length, Conical
Lifter	Both	2011-20	VL559 Hydraulic Roller Type, Oil Hole Is Positioned In Line With Roller Pin., Non-Active Fuel Management; OEM # 17122490
		2011-20	VL559G Non-AFM Lifter Guide Type, Non-AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
Rocker Components	Int	2011-20	180-1336 Rocker Arm, Roller Pivot Assy.
	Exh	2011-20	180-1337 Rocker Arm, Roller Pivot Assy., NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2011-20	190-1537 7.397 Length
Head Bolt Set		2011-20	220-1123 Torque To Yield, Services Engine
Head Saver Shim		2011-20	230-2187 New Hgt. - 4.732; Min. Hgt. - N/A

111 366 C.I., (6.0L), OHV, GAS, CARB, 16 Valve, Vin B, L86 GMT366
 1966-83 V8 366 CID BORE - 100mm/3.94""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1966-83	SB1937-17 1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., 7/ ₃₂ Depth, W/ 1.840 Valve Head Dia.
		1966-83	SB2125-11 2 ¹ / ₈ O.D., 1 ¹ / ₄ I.D., 7/ ₃₂ Depth, W/ 1.940 Valve Head Dia.
	Exh	1966-83	SB1750-2 1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/ ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.660 Valve Head Dia.
		1966-83	SB1812-21N 1 ¹³ / ₁₆ O.D., 1 ¹⁵ / ₃₂ I.D., 5/ ₁₆ Depth, Optional O/S Replacement For Late Cylinder Head W/ Factory Installed Seat
Valve	Int	1966-83	00997 1.840 Head Diameter, 1st Design Exc. H-Duty Emission Control
		1966-83	01087 1.940 Head Diameter, 2nd Design, +15 O/S Available
	Exh	1966-83	00996S 1.660 Head Diameter, Stellite Face, 1st Design, +15 O/S Stem Available
		1966-83	01235S 1.660 Head Diameter, Recommended OEM Nickel Base Inconel Material, Stellite Face, 2nd Design
		1966-83	01241SN 1.660 Head Diameter, Stellite Face, Sodium Filled, Optional, 2nd Design
		1966-83	21235S 1.660 Head Diameter, Alternative Austenitic Material, Stellite Face, Nitrided, W/ 20 Degree Seat Angle, Optional LPG
Keeper	Both	1966-83	121-1007 1 SQ Bead Type
Stem Seal	Both	1966-83	122-1036 Umbrella Type, Poly Material, Umbrella Style
Guide	Int	1966-83	140-9973 0.3735 I.D., 2.420 Length, 0.6255 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9973U), Must Pressure Test for Water Leak After Installation
		1966-83	140-7208 0.3740 I.D., 2.740 Length, 0.6205 O.D.
	Exh	1966-83	140-9208 0.3740 I.D., 2.740 Length, 0.6205 O.D.

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

366 C.I., (6.0L), OHV, GAS, CARB, 16 Valve, Vin B, L86
1966-83 V8 366 CID

GMT366 111
BORE - 100mm/3.94" (cont.)

PART	YEARS	PART NO.	NOTES
Spring	Both	1966-83 160-1141	2.050 Length,W/ Damper
Rotator	Exh	1966-83 161-1013	
Lifter	Both	1966-83 VL37	Hydraulic Type
Rocker Components	Both	1966-83 1966-83 1966-83 1966-83 180-1229 181-1014 183-1026 184-1040	Rocker Arm Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 7/16 Nut,High Perf. Grooved Ball, 7/16 Nut, 7/16
Push Rod	Int	1966-76 1977-83 192-1377 190-1433	8.680 Length,0.375 Dia. 8.686 Length>Note: (Hardened); +60 O/S (190-1433+60) Available,0.312 Dia.
	Exh	1966-76 1977-83 192-1378 192-1442	9.643 Length,0.375 Dia. 9.650 Length,0.312 Dia.

366 C.I., (6.0L), OHV, GAS, CARB, 16 Valve, Vin B, P, "Medium Duty" GMT366MD **112**
1984-98 V8 366 CID BORE - 100mm/3.94" BORE - 100mm/3.937"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1984-98 1984-98 1984-98 SB2125-11 SB1750-2 SB1812-21N	2 1/8 O.D., 1 1/4 I.D., 7/32 Depth,W/ 1.940 Valve Head Dia. 1 3/4 O.D., 1 1/2 I.D., 7/32 Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.660 Valve Head Dia. 1 13/16 O.D., 1 15/32 I.D., 5/16 Depth,Optional O/S Replacement For Late Cylinder Head W/ Factory Installed Exhaust Seat; NOTE: Includes LPG
Valve	Int Exh	1984-98 1984-98 1984-98 1984-98 1984-98 01087 00996S 01235S 01241SN 21235S	1.940 Head Diameter,2nd Design, +15 O/S Available 1.660 Head Diameter,Stellite Face,+15 O/S Stem Available 1.660 Head Diameter,Recommended OEM Nickel Base Inconel Material, Stellite Face,2nd Design 1.660 Head Diameter,Stellite Face, Sodium Filled,Optional, 2nd Design 1.660 Head Diameter,Alternative Austenitic Material, Stellite Face, Nitrided, W/ 20 Degree Seat Angle, Optional LPG
Keeper	Both	1984-98 121-1007	1 SQ Bead Type
Stem Seal	Both	1984-98 1984-98 122-1036 122-1330	Umbrella Type,Poly Material,Umbrella Style Positive Type,Viton Material, Spring & Band Style,Universal Seal.
Guide	Int Exh	1984-98 1984-98 1984-98 140-9973 140-7208 140-8256 140-9208	0.3735 I.D.,2.420 Length,0.6255 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9973U), Must Pressure Test for Water Leak After Installation 0.3740 I.D.,2.740 Length,0.6205 O.D. 0.3740 I.D.,2.755 Length,0.6205 O.D.,Same As 140-8113 But Not Cut For Seal, Must Pressure Test for Water Leak After Installation 0.3740 I.D.,2.740 Length,0.6205 O.D.
Spring	Both	1995-98 160-1507	2.162 Length,Conical
Rotator	Exh	1984-94 161-1013	
Lifter	Both	1984-90 1991-98 1991-98 VL37 VL117RH VL73	Hydraulic Type Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train. Hydraulic Type
Rocker Components	Both	1984-90 1984-90 180-1229 181-1014	Rocker Arm Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 7/16 Nut,High Perf.

GM TRUCK / PASSENGER TRUCK (Cont'd)

112 366 C.I., (6.0L), OHV, GAS, CARB, 16 Valve, Vin B, P, ""Medium Duty"" GMT366MD
 (cont.) 1984-98 V8 366 CID BORE - 100mm/3.94"" BORE - 100mm/3.937""

PART		YEARS	PART NO.	NOTES
Rocker Components	Both	1984-90	183-1026	Grooved Ball, 7/16
		1984-90	184-1040	Nut, 7/16
		1991-98	180-1319	Rocker Arm
Push Rod	Int	1984-90	190-1526	8.634 Length
		1991-98	190-1527	8.571 Length
	Exh	1984-90	190-1429	9.594 Length
		1991-98	190-1528	9.540 Length

113 376 C.I., (6.2L), OHV, FLEX, GAS, FI, 16 Valve, Vin J, L86, ""AFM EcoTec3"" GMT6.2-L86
 2014-20 V8 376 CID BORE - 103.2mm/4.06""

PART		YEARS	PART NO.	NOTES
Keeper	Both	2014-20	121-1085	1 RD Bead Type
Stem Seal	Int	2014-19	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2014-19	122-1338	Positive Type,Viton Material,Top Hat Style
Lifter	Both	2014-20	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2014-20	VL558E	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2014-20	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2014-20	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2014-20	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required
Push Rod	Both	2014-20	190-1555	7.850 Length

114 376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin L, L87, ""DFM EcoTec3"" GMT6.2-L87
 2019-21 V8 376 CID BORE - 103.2mm/4.06""

PART		YEARS	PART NO.	NOTES
Keeper	Both	2019-20	121-1085	1 RD Bead Type
Stem Seal	Int	2019-19	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2019-19	122-1338	Positive Type,Viton Material,Top Hat Style
Lifter	Both	2019-20	VL558	AFM Hydraulic Roller Type,W/Spring,Active Lifter
		2019-20	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Lifter
Push Rod	Both	2019-20	190-1555	7.850 Length

115 376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin 8, L92, ""AFM Vortec"" GMT6.2-L92
 2007-08 V8 376 CID BORE - 103.2mm/4.06""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2007-08	SB2250-50	2 1/4 O.D., 1 7/8 I.D., 3/8 Depth,Gasoline & CNG; NOTE: Universal Repair Seat, Requires 2 1/4"" Cutter.
		2007-08	SB2250-50PM	2 1/4 O.D., 1 7/8 I.D., 3/8 Depth,Gas Only. OEM Equivalent PM Material, NOTE: Universal Repair Seat, Requires 2 1/4"" Cutter.
	Exh	2007-08	SB1634E-3	1.634 O.D., 1.360T I.D., 0.3000 Depth,Gasoline; NOTE: Services Factory Installed Seat.
		2007-08	SB1634E-3N	1.634 O.D., 1.360T I.D., 0.3000 Depth,CNG; NOTE: Services Factory Installed Seat.

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin 8, L92, ""AFM Vortec"" **GMT6.2-L92 115**
2007-08 V8 376 CID **BORE - 103.2mm/4.06"" (cont.)**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 2007-08	SB1634E-3PM	1.634 O.D.,1.360T I.D.,0.3000 Depth,Gasoline. OEM Equivalent PM Material. NOTE: Services Factory Installed Seat.
Valve	Int 2007-08	13040	2.165 Head Diameter,Gasoline
	2007-08	13240	2.165 Head Diameter,CNG
	Exh 2007-08	13042	1.587 Head Diameter,Gasoline
	2007-08	13241S	1.589 Head Diameter,Stellite Face,CNG
Keeper	Both 2007-08	121-1085	1 RD Bead Type
Stem Seal	Int 2007-08	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh 2007-08	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both 2007-08	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
	2007-08	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
	2007-08	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
	2007-08	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both 2007-08	160-1488	2.130 Length,Conical
Lifter	Both 2007-08	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
	2007-08	VL558E	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, 8 Required; NOTE: It Is Recommended To Replace In Sets.
	2007-08	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
	2007-08	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
	2007-08	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490
Rocker Components	Int 2007-08	180-1336	Rocker Arm, Roller Pivot Assy.,NOTE: Offset, For Use With Large Rectangular Intake Ports; Captive Bearing Design With High Grade Steel Trunion
	Exh 2007-08	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both 2007-08	190-1537	7.397 Length
Head Bolt Set	2007-08	220-1103	Torque To Yield,NOTE: Services Engine
Head Saver Shim	2007-08	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

376 C.I., (6.2L), OHV, FLEX, FI, 16 Valve, Vin F, L94, ""AFM Vortec"" **GMT6.2-L94 116**
2010-14 V8 376 CID **BORE - 103.2mm/4.06""**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 2010-14	SB2250-50	2¼ O.D.,1⅞ I.D.,¾ Depth,NOTE: Universal Repair Seat, Requires 2¼"" Cutter.
	2010-14	SB2250-50PM	2¼ O.D.,1⅞ I.D.,¾ Depth,OEM Equivalent PM Material, NOTE: Universal Repair Seat, Requires 2.¼"" Cutter.
	Exh 2010-14	SB1634E-3	1.634 O.D.,1.360T I.D.,0.3000 Depth,NOTE: Services Factory Installed Seat.
	2010-14	SB1634E-3PM	1.634 O.D.,1.360T I.D.,0.3000 Depth,OEM Equivalent PM Material. NOTE: Services Factory Installed Seat.
Valve	Int 2010-14	13240	2.165 Head Diameter
	Exh 2010-14	13042	1.587 Head Diameter

GM TRUCK / PASSENGER TRUCK (Cont'd)

116 376 C.I., (6.2L), OHV, FLEX, FI, 16 Valve, Vin F, L94, ""AFM Vortec"" GMT6.2-L94
 (cont.) 2010-14 V8 376 CID BORE - 103.2mm/4.06""

PART		YEARS	PART NO.	NOTES
Keeper	Both	2010-14	121-1085	1 RD Bead Type
Stem Seal	Int	2010-14	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2010-14	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2010-14	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2010-14	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2010-14	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2010-14	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2010-14	160-1488	2.130 Length,Conical
Lifter	Both	2010-14	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2010-14	VL558E	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2010-14	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2010-14	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2010-14	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required
Rocker Components	Both	2010-14	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2010-14	190-1537	7.397 Length
Head Bolt Set		2010-14	220-1123	Torque To Yield,Services Engine
Head Saver Shim		2010-14	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

117 376 C.I., (6.2L), OHV, FLEX, FI, 16 Valve, Vin 2, L9H, ""Vortec"" GMT6.2-L9H
 2009-13 V8 376 CID BORE - 103.2mm/4.06""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2009-13	SB2250-50	2¼ O.D.,17⁄8 I.D.,¾ Depth,NOTE: Universal Repair Seat, Requires 2¼"" Cutter.
		2009-13	SB2250-50PM	2¼ O.D.,17⁄8 I.D.,¾ Depth,OEM Equivalent PM Material, NOTE: Universal Repair Seat, Requires 2.¼"" Cutter.
	Exh	2009-13	SB1634E-3	1.634 O.D.,1.360T I.D.,0.3000 Depth,NOTE: Services Factory Installed Seat.
		2009-13	SB1634E-3PM	1.634 O.D.,1.360T I.D.,0.3000 Depth,OEM Equivalent PM Material. NOTE: Services Factory Installed Seat.
Valve	Int	2009-13	13240	2.165 Head Diameter
	Exh	2009-13	13042	1.587 Head Diameter
Keeper	Both	2009-13	121-1085	1 RD Bead Type
Stem Seal	Int	2009-13	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2009-13	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2009-13	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2009-13	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2009-13	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.

(Cont'd) GM TRUCK / PASSENGER TRUCK**376 C.I., (6.2L), OHV, FLEX, FI, 16 Valve, Vin 2, L9H, ""Vortec""**
2009-13 V8 376 CID**GMT6.2-L9H 117**
BORE - 103.2mm/4.06"" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Both	2009-13	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2009-13	160-1488	2.130 Length,Conical
Lifter	Both	2009-13	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490 Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
		2009-13	VL559G	
Rocker Components	Int	2009-13	180-1336	Rocker Arm, Roller Pivot Assy.,NOTE: Offset, For Use With Large Rectangular Intake Ports; Captive Bearing Design With High Grade Steel Trunion
	Exh	2009-13	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2009-13	190-1537	7.397 Length
Head Bolt Set		2009-13	220-1123	Torque To Yield,Services Engine
Head Saver Shim		2009-13	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

379 C.I., (6.2L), OHV, GAS, CARB, 12 Valve
1973-74 V6 379 CID**GMT379 118**
BORE - 115.9mm/4.5625""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1973-74	SB2250-2	2¼ O.D.,1 ⁷ / ₈ I.D., ⁹ / ₃₂ Depth
Keeper	Exh	1973-74	121-1003	1 SQ Bead Type
Guide	Int	1973-74	140-6115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1973-74	140-9115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	1973-74	140-6116	0.4375 I.D.,3.125 Length,0.6270 O.D.,Plain I.D. Conversion Guide
		1973-74	140-9116	0.4375 I.D.,3.125 Length,0.6270 O.D.,Spiral I.D. Conversion Guide

379 C.I., (6.2L), OHV, DIESEL, FI, 16 Valve, Vin C, J, X
1982-93 V8 379 CID**GMT379CJ 119**
BORE - 101mm/3.98""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1982-93	SB1937-23	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D., ³ / ₁₆ Depth,W/ 1.811 Valve Head Dia.
	Exh	1982-87	SB1687-15	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁵ / ₃₂ Depth,W/ 1.653 Valve Head Dia.
		1988-93	SB1562-36N	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ³ / ₁₆ Depth,W/ 1.535 Valve Head Dia.
Valve	Int	1982-93	01484	1.811 Head Diameter,1982-83 C Eng. & 1984-93 All
	Exh	1982-87	01483S	1.653 Head Diameter,Stellite Face,1982-83 All & 1984-87 C Eng.
		1984-93	01482S	1.496 Head Diameter,Stellite Face,J Eng.
		1988-93	01780S	1.535 Head Diameter,Stellite Face,C Eng.
Keeper	Both	1982-93	121-1003	1 SQ Bead Type
Stem Seal	Int	1982-93	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
	Exh	1982-93	122-1031	Positive Type,Poly Material,2-Ring Style,Aftermarket Version.
		1982-93	122-1332	Positive Type,Viton Material,Metal Clad Style,OEM Style
Guide	Int	1982-93	140-9715	0.3430 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	1982-93	140-9716	0.3730 I.D.,2.188 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1982-93	160-1233	2.035 Length,W/ Damper
Rotator	Both	1982-93	161-1012	

GM TRUCK / PASSENGER TRUCK (Cont'd)

119 379 C.I., (6.2L), OHV, DIESEL, FI, 16 Valve, Vin C, J, X
(cont.) 1982-93 V8 379 CID

GMT379CJ
BORE - 101mm/3.98"

PART	YEARS	PART NO.	NOTES
Lifter	Both	1982-93 VL114	Hydraulic Roller Type
Rocker Components	Both	1982-93 180-1292	Rocker Arm
Push Rod	Both	1982-93 190-1500	8.828 Length,Install Bronze Colored End Toward Rocker Arm
Head Bolt Set		1982-93 220-1010	Torque To Yield,2 Required

120 395 C.I., (6.5L), OHV, DIESEL, FI, 16 Valve, Vin P, Y
1994-99 V8 395 CID

GMT395D
BORE - 103mm/4.06"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1994-99 SB1937-23	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	1994-99 SB1562-36N	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ³ / ₁₆ Depth
Valve	Int	1994-99 01484	1.811 Head Diameter
	Exh	1994-99 01780S	1.535 Head Diameter,Stellite Face
Keeper	Both	1994-99 121-1003	1 SQ Bead Type
Stem Seal	Int	1994-99 122-1043	O-Ring Type,Nitrile Material,O-Ring Style
	Exh	1994-99 122-1031	Positive Type,Poly Material,2-Ring Style,Aftermarket Version.
	1994-99 122-1332	Positive Type,Viton Material,Metal Clad Style,OEM Style	
Guide	Int	1994-99 140-9715	0.3430 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	1994-99 140-9716	0.3730 I.D.,2.188 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1994-99 160-1233	2.035 Length,W/ Damper
Rotator	Exh	1994-99 161-1012	
Lifter	Both	1994-99 VL114	Hydraulic Roller Type
Rocker Components	Both	1994-99 180-1292	Rocker Arm
Push Rod	Both	1994-99 190-1500	8.828 Length,Install Bronze Colored End Toward Rocker Arm
Head Bolt Set		1994-99 220-1010	Torque To Yield,2 Required
Head Saver Shim		1994-99 230-2104	New Hgt. - 3.853 - 3.863; Min. Hgt. 3.853, 2 Required

121 395 C.I., (6.5L), OHV, DIESEL, FI, 16 Valve, Vin F, S, Z, ""TURBO""
1992-04 V8 395 CID

GMT395DT
BORE - 103mm/4.06"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1992-04 SB1937-23	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	1992-04 SB1562-36N	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ³ / ₁₆ Depth
Valve	Int	1992-04 01484	1.811 Head Diameter
	Exh	1992-04 01780S	1.535 Head Diameter,Stellite Face
Keeper	Both	1992-04 121-1003	1 SQ Bead Type
Stem Seal	Int	1992-04 122-1043	O-Ring Type,Nitrile Material,O-Ring Style
	Exh	1992-04 122-1031	Positive Type,Poly Material,2-Ring Style,Aftermarket Version.
	1992-04 122-1332	Positive Type,Viton Material,Metal Clad Style,OEM Style	
Guide	Int	1992-04 140-9715	0.3430 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	1992-04 140-9716	0.3730 I.D.,2.188 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1992-04 160-1233	2.035 Length,W/ Damper
Rotator	Exh	1992-04 161-1012	
Lifter	Both	1992-04 VL114	Hydraulic Roller Type
Rocker Components	Both	1992-04 180-1292	Rocker Arm
Push Rod	Both	1992-04 190-1500	8.828 Length,Install Bronze Colored End Toward Rocker Arm

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

395 C.I., (6.5L), OHV, DIESEL, FI, 16 Valve, Vin F, S, Z, ""TURBO"" **GMT395DT 121**
1992-04 V8 395 CID **BORE - 103mm/4.06"" (cont.)**

PART	YEARS	PART NO.	NOTES
Head Bolt Set	1992-04	220-1010	Torque To Yield,2 Required
Head Saver Shim	1992-04	230-2104	New Hgt. - 3.853 - 3.863; Min. Hgt. 3.853, 2 Required

396 C.I., (6.5L), OHV, GAS, CARB, 16 Valve, Vin E, Y **GMT396 122**
1968-69 V8 396 CID **BORE - 104.3mm/4.09""**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1968-69	SB2250-1 2 1/4 O.D., 1 15/16 I.D., 3/16 Depth
	Exh	1968-69		1 13/16 O.D., 1 1/16 I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1968-69	01107 2.065 Head Diameter, +15 O/S Stem Available
	Exh	1968-69		01106 1.720 Head Diameter, +15 O/S Stem Available
Keeper	Both	1968-69	121-1007 1 SQ Bead Type
Stem Seal	Both	1968-69	122-1031 Positive Type, Poly Material, 2-Ring Style
		1968-69	122-1045 Umbrella Type, Poly Material, Umbrella Style
Guide	Int	1968-69	140-9973 0.3735 I.D., 2.420 Length, 0.6255 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9973U), Must Pressure Test for Water Leak After Installation
	Exh	1968-69		140-9972 0.3740 I.D., 2.630 Length, 0.6203 O.D., Spiral I.D. Conversion Guide, +3 O/S, -5 U/S I.D. Available (140-9972U)
Spring	Both	1968-69	160-1003 2.120 Length, Dual Spring
		1968-69	160-1139 2.215 Length, W/ Damper, Single Spring
Lifter	Both	1968-69	VL37 Hydraulic Type
Rocker Components	Both	1968-69	180-1229 Rocker Arm
		1968-69	181-1014 Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 7/16 Nut, High Perf.
		1968-69	181-1048 Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 7/16 Nut, High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More
		1968-69	183-1026 Grooved Ball, 7/16
1968-69	184-1040 Nut, 7/16		
Push Rod	Int	1968-69	192-1337 8.280 Length, First Design, 0.375 Rod Dia.
		1968-69	192-1339 8.230 Length, 0.312 Rod Dia.
	Exh	1968-69	192-1336 9.252 Length, First Design, 0.375 Rod Dia.
		1968-69	192-1338 9.200 Length, 0.312 Rod Dia.
Head Bolt Set	1968-69	220-1107 Torque To Yield, Services Engine	
Head Saver Shim	1968-69	230-2029 New Hgt. - Min. Hgt. N/A	

400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin M, R, U, X **GMT400 123**
1975-80 V8 400 CID **BORE - 104.8mm/4.13""**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1975-80	SB1812-3 1 13/16 O.D., 1 1/2 I.D., 7/32 Depth, W/ 1.720 Valve Head Dia.
		1975-80		SB2125-1 2 1/8 O.D., 1 13/16 I.D., 1/4 Depth, W/ 1.940 Valve Head Dia.
	Exh	1975-80	SB1562-1 1 9/16 O.D., 1 5/16 I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1975-80	00696 1.940 Head Diameter
		1975-80		01193 1.720 Head Diameter, +3 & +15 O/S Stem Available
	Exh	1975-80	01206S 1.500 Head Diameter, Stellite Face, W/ .342 Stem Diameter, +15 O/S Stem Available
		1975-80	01294S 1.500 Head Diameter, Stellite Face, W/ .3718T Stem Dia., +15 O/S Stem Available

GM TRUCK / PASSENGER TRUCK (Cont'd)

123 400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin M, R, U, X
(cont.) 1975-80 V8 400 CID

GMT400
BORE - 104.8mm/4.13"

PART	YEARS	PART NO.	NOTES
Valve	Exh	1975-80 01646S	1.500 Head Diameter, Inconel, Stellite Face, W/ .3719 Stem Dia., Optional
Keeper	Both	1975-80 121-1003	1 SQ Bead Type
Stem Seal	Exh	1975-80 122-1234	Umbrella Type, Nylon Material, Umbrella Style
	Both	1975-80 122-1037	Umbrella Type, Poly Material, Umbrella Style, W/ .342 Stem Dia.
		1975-80 122-1043	O-Ring Type, Nitrile Material, O-Ring Style, W/ .342 Stem Dia.
		1975-80 122-1047	Positive Type, Poly Material, 2-Ring Style, W/ .342 Stem Dia.
		1975-80 122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ ¹¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
	1975-80 122-1270	Umbrella Type, Viton Material, Umbrella Style	
Guide	Int	1975-80 140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
	Exh	1975-80 140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1975-80 140-6107	0.3740 I.D., 2.250 Length, 0.5020 O.D., Use W/ .371 Valve Stem Dia., Plain I.D. Conversion Guide
		1975-80 140-9107	0.3740 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, W/ .371 Valve Stem Dia.
Spring	Int	1975-80 160-1144	2.048 Length, W/ Damper
		1975-80 160-1144HP	2.023 Length, W/ Damper, Hi-Perf.
		1975-80 160-1407	2.140 Length, W/ Damper, Optional Hi-Perf.
	Exh	1975-80 160-1009	1.910 Length, W/ Damper
Lifter	Both	1975-80 VL37	Hydraulic Type
Rocker Components	Both	1975-80 180-1228	Rocker Arm
		1975-80 180-1239	Rocker Arm, Stamped, Long Slot
		1975-80 180-1283	Rocker Arm, Rail Type, Optional
		1975-80 181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut
		1975-80 181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) ³ / ₈ Nut, High Perf., W/ 1.5:1 Ratio
		1975-80 181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) ³ / ₈ Nut, Optional
		1975-80 183-1017	Smooth Ball, ³ / ₈
		1975-80 183-1026	Grooved Ball, ⁷ / ₁₆ , ⁷ / ₁₆
		1975-80 183-1032	Grooved Ball, ³ / ₈ , ³ / ₈
		1975-80 184-1038	Nut, ³ / ₈
Push Rod	Both	1975-80 192-1331	7.793 Length

124 401 C.I., (6.6L), OHV, GAS, CARB, 12 Valve
1960-65 V6 401 CID

GMT401
BORE - 123.8mm/4.875"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1960-65 SB2250-2	2 ¹ / ₄ O.D., 1 ⁷ / ₈ I.D., ⁹ / ₃₂ Depth
Keeper	Exh	1960-65 121-1003	1 SQ Bead Type
Guide	Int	1960-65 140-6115	0.3750 I.D., 2.750 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1960-65 140-9115	0.3750 I.D., 2.750 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	1960-65 140-6116	0.4375 I.D., 3.125 Length, 0.6270 O.D., Plain I.D. Conversion Guide
		1960-65 140-9116	0.4375 I.D., 3.125 Length, 0.6270 O.D., Spiral I.D. Conversion Guide

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

401 C.I., (6.6L), OHV, GAS, CARB, 12 Valve, Vin M
1966-73 V6 401 CID

GMT401M 125
BORE - 123.8mm/4.875"

PART	YEARS	PART NO.	NOTES
Keeper	Exh 1966-73	121-1003	1 SQ Bead Type
Stem Seal	Both 1966-73	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
Guide	Int 1966-73	140-6115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Plain I.D. Conversion Guide
	1966-73	140-9115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh 1966-73	140-6116	0.4375 I.D.,3.125 Length,0.6270 O.D.,Plain I.D. Conversion Guide
	1966-73	140-9116	0.4375 I.D.,3.125 Length,0.6270 O.D.,Spiral I.D. Conversion Guide

402 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin E, K, S, U
1971-72 V8 402 CID

GMT402 126
BORE - 104.8mm/4.13"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1971-72	SB2250-1	2¼ O.D., 1 ¹⁵ / ₁₆ I.D., ¾ Depth
	Exh 1971-72	SB1812-4	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 7/32 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int 1971-72	01107	2.065 Head Diameter,+15 O/S Stem Available
	Exh 1971-72	01106	1.720 Head Diameter,+15 O/S Stem Available
Keeper	Both 1971-72	121-1007	1 SQ Bead Type
Stem Seal	Both 1971-72	122-1031	Positive Type,Poly Material,2-Ring Style
	1971-72	122-1045	Umbrella Type,Poly Material,Umbrella Style
Guide	Int 1971-72	140-9973	0.3735 I.D.,2.420 Length,0.6255 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9973U), Must Pressure Test for Water Leak After Installation
	Exh 1971-72	140-9972	0.3740 I.D.,2.630 Length,0.6203 O.D.,Spiral I.D. Conversion Guide,+3 O/S, -5 U/S I.D. Available (140-9972U)
Lifter	Both 1971-72	VL37	Hydraulic Type
Rocker Components	Both 1971-72	180-1229	Rocker Arm
	1971-72	181-1014	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 7/16 Nut,High Perf.
	1971-72	181-1048	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 7/16 Nut,High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More
	1971-72	183-1026	Grooved Ball, 7/16
1971-72	184-1040	Nut, 7/16	
Push Rod	Int 1971-72	192-1337	8.280 Length,First Design, 0.375 Rod Dia.
	1971-72	192-1339	8.230 Length,0.312 Rod Dia.
	1971-72	192-1504	8.280 Length,2nd Design, 0.312 Rod Dia.
	Exh 1971-72	192-1336	9.252 Length,First Design, 0.375 Rod Dia.
	1971-72	192-1338	9.200 Length,0.312 Rod Dia.
	1971-72	192-1503	9.252 Length,2nd Design, 0.312 Rod Dia.
Head Bolt Set	1971-72	220-1107	Torque To Yield,Services Engine
Head Saver Shim	1971-72	230-2029	New Hgt. - Min. Hgt. N/A

403 C.I., (6.6L), OHV, DIESEL, FI, 32 Valve, Vin 1, 2, 6, 8, 9, D, L, ""Duramax TURBO""

2001-16 V8 403 CID

GMT6.6TD 127
BORE - 103mm/4.06"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 2001-16	SB1343E-1	1.343 O.D.,1.069T I.D.,0.2370 Depth,+5 O/S Available,OEM # 97212571
	Exh 2001-16	SB1264E-1	1.264 O.D.,0.977T I.D.,0.2370 Depth,+5 O/S Available,OEM # 97212572

GM TRUCK / PASSENGER TRUCK (Cont'd)

127 403 C.I., (6.6L), OHV, DIESEL, FI, 32 Valve, Vin 1, 2, 6, 8, 9, D, L, ""Duramax
(cont.) TURBO""

GMT6.6TD

2001-16

V8 403 CID

BORE - 103mm/4.06""

PART		YEARS	PART NO.	NOTES
Valve	Int	2001-16	02175	1.299 Head Diameter,OEM # 97225507, 97366945
		2001-16	02175R	1.299 Head Diameter,NOTE: Optional Performance Valve, See Performance Catalog For Details
	Exh	2001-16	02176	1.220 Head Diameter,OEM # 97225508, 97366946
		2001-16	02176R	1.220 Head Diameter,NOTE: Optional Performance Valve, See Performance Catalog For Details
Keeper	Both	2001-16	121-1048	1 RD Bead Type
Stem Seal	Both	2001-05	122-1346	Positive Type,Viton Material,Metal Clad Style,First Design, Use W/ 140-3049
		2006-16	122-1438	Positive Type,Viton Material,Metal Clad Style,2nd Design , Use W/ 140-3142
Guide	Both	2001-05	140-3049	0.2755 I.D.,1.967 Length,0.4547 O.D.,First Design, W/Seal Groove
		2006-16	140-3142	0.2755 I.D.,1.967 Length,0.4547 O.D.,2nd Design, W/ O Seal Groove
Spring	Both	2001-16	160-1457	2.216 Length,OEM # 98025825, 2nd Design, Must Use OEM Retainer # 12636393
		2001-16	360-1022	2.083 Length,NOTE: Optional Performance Valve Spring, See Performance Catalog For Details
Rotator	Both	2001-16	161-1082	Retainer,OEM # 12636393
Lifter	Both	2001-16	VL573	Mechanical Roller Type,OEM # 97325546
Head Bolt Set		2001-16	220-1099	Torque To Yield,OEM # 97310851; 2 Required Per Engine; NOTE: Does Not Include OEM # 97209620, 97355741 Small Outer 8mm X 90mm Allen Head Bolts
Head Saver Shim		2001-16	230-2145	New Hgt. - 3.8180 - 3.8190; Min. Hgt. - 3.8130, 2 Required
Injector Tubes and Components		2001-06	240-1019	Stainless Steel Material,InjectorTube,OEM # 97188463; NOTE: For VIN 1, 2 & 3 Only ; Castings After 2006 Do Not Have Replaceable Injector Sleeves.
		2001-06	240-1019R	Silicon Material,O-Ring, Orange,OEM # 94051259, NOTE: 2 Required

128 403 C.I., (6.6L), OHV, DIESEL, FI, 32 Valve, Vin Y, L5P, ""Duramax
TURBO""

GMT6.6TD-L5P

2017-21

V8 403 CID

BORE - 103mm/4.06""

PART		YEARS	PART NO.	NOTES
Valve	Int	2017-20	13469	1.299 Head Diameter
	Exh	2017-20	13470	1.220 Head Diameter
Keeper	Both	2017-20	121-1048	1 RD Bead Type
Stem Seal	Both	2017-20	122-1510	Positive Type,Viton Material,Top Hat Style
Spring	Both	2017-20	160-1701	2.315 Length,Conical

129 403 C.I., (6.6L), OHV, DIESEL, FI, 32 Valve, L5D, ""Duramax TURBO""

GMT6.6TD-L5D

2019-20

V8 403 CID

BORE - 103mm/4.06""

PART		YEARS	PART NO.	NOTES
Valve	Int	2019-20	13469	1.299 Head Diameter
	Exh	2019-20	13470	1.220 Head Diameter
Keeper	Both	2019-20	121-1048	1 RD Bead Type
Stem Seal	Both	2019-20	122-1510	Positive Type,Viton Material,Top Hat Style
Spring	Both	2019-20	160-1701	2.315 Length,Conical

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

427 C.I., (7.0L), OHV, GAS, CARB, FI, 16 Valve, ""Medium Duty""
1968-97 V8 427 CID

GMT427MD **130**
BORE - 104.8mm/4.25""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1968-97 1974-85	2 ¹ / ₁₆ O.D., 1 ¹³ / ₁₆ I.D., 1/4 Depth, W/ 1.940 Valve Head Dia. 1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., 7/32 Depth, W/ 1.840 Valve Head Dia.	
	Exh	1968-97		
Valve	Int	1968-97 1974-85	1.940 Head Diameter, 2nd Design, +15 O/S Available 1.840 Head Diameter, 1st Design	
	Exh	1968-78		
	1974-97 1991-97 1991-97	01087 00997 00996S	1.660 Head Diameter, Stellite Face, Opt., +15 O/S Stem Available 1.660 Head Diameter, Stellite Face, Sodium Filled 1.660 Head Diameter, Recommended OEM Nickel Base Inconel Material, Stellite Face 1.660 Head Diameter, Alternative Austenitic Material, Stellite Face, Nitrided, W/ 20 Degree Seat Angle, Optional LPG	
		01241SN 01235S		
		21235S		
Keeper	Both	1968-97	121-1007	1 SQ Bead Type
Stem Seal	Both	1968-90	122-1045	Umbrella Type, Poly Material, Umbrella Style Positive Type, Viton Material, Spring & Band Style, Universal Seal.
		1968-97	122-1330	
Guide	Int	1968-97	140-9973	0.3735 I.D., 2.420 Length, 0.6255 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9973U), Must Pressure Test for Water Leak After Installation
	Exh	1968-97	140-9972	0.3740 I.D., 2.630 Length, 0.6203 O.D., Spiral I.D. Conversion Guide, +3 O/S, -5 U/S I.D. Available (140-9972U)
Spring	Both	1968-85	160-1141	2.050 Length, W/ Damper, 1st Design
Rotator	Exh	1968-97	161-1013	
Lifter	Both	1968-90	VL37	Hydraulic Type Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train. Hydraulic Type
		1991-97	VL117RH	
		1991-97	VL73	
Rocker Components	Both	1968-90	180-1229	Rocker Arm
		1968-90	181-1014	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 7/16 Nut, High Perf.
		1968-90	181-1048	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 7/16 Nut, High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More
		1968-90	183-1026	Grooved Ball, 7/16
		1968-90	184-1040	Nut, 7/16
1991-97	180-1318	Rocker Arm		
Push Rod	Int	1968-76	192-1377	8.680 Length, 0.375 Dia. 8.686 Length, Note: (Hardened); +60 O/S (190-1433+60) Available, 0.312 Dia. 9.643 Length, 0.375 Dia. 9.650 Length, 0.312 Dia.
		1977-97	190-1433	
	Exh	1968-76	192-1378	
		1977-97	192-1442	
Head Saver Shim		1968-95	230-2029	New Hgt. - Min. Hgt. N/A

427 C.I., (7.0L), OHV, GAS, CARB, 16 Valve, ""Heavy Duty""
1974-81 V8 427 CID

GMT427HD **131**
BORE - 108mm/4.25""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1974-81	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., 7/32 Depth, W/ 1.840 Valve Head Dia. 1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.660 Valve Head Dia.	
	Exh	1974-81		
Valve	Int	1974-81	00997	1.840 Head Diameter

GM TRUCK / PASSENGER TRUCK (Cont'd)

131 427 C.I., (7.0L), OHV, GAS, CARB, 16 Valve, ""Heavy Duty""
(cont.) 1974-81 V8 427 CID

GMT427HD
BORE - 108mm/4.25""

PART		YEARS	PART NO.	NOTES
Valve	Exh	1974-81	01241SN	1.660 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	1974-81	121-1007	1 SQ Bead Type
Stem Seal	Both	1974-81	122-1045	Umbrella Type,Poly Material,Umbrella Style
Guide	Int	1974-81	140-9973	0.3735 I.D.,2.420 Length,0.6255 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9973U), Must Pressure Test for Water Leak After Installation
	Exh	1974-81	140-9972	0.3740 I.D.,2.630 Length,0.6203 O.D.,Spiral I.D. Conversion Guide,+3 O/S, -5 U/S I.D. Available (140-9972U)
Spring	Both	1974-81	160-1141	2.050 Length,W/ Damper
Rotator	Exh	1977-81	161-1013	
Lifter	Both	1974-81	VL37	Hydraulic Type
Rocker Components	Both	1974-81	180-1229	Rocker Arm
		1974-81	181-1014	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 7/16 Nut,High Perf.
		1974-81	181-1048	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 7/16 Nut,High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More
		1974-81	183-1026	Grooved Ball, 7/16
		1974-81	184-1040	Nut, 7/16
Push Rod	Int	1974-76	192-1377	8.680 Length,0.375 Dia.
		1977-81	190-1433	8.686 Length>Note: (Hardened); +60 O/S (190-1433+60) Available,0.312 Dia.
	Exh	1974-76	192-1378	9.643 Length,0.375 Dia.
		1977-81	192-1442	9.650 Length,0.312 Dia.

132 432 C.I., (7.1L), OHV, GAS, CARB, 12 Valve
1973-74 V6 432 CID

GMT432M
BORE - 123.8mm/4.875""

PART		YEARS	PART NO.	NOTES
Keeper	Exh	1973-74	121-1003	1 SQ Bead Type
Stem Seal	Both	1973-74	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
Guide	Int	1973-74	140-6115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1973-74	140-9115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	1973-74	140-6116	0.4375 I.D.,3.125 Length,0.6270 O.D.,Plain I.D. Conversion Guide
		1973-74	140-9116	0.4375 I.D.,3.125 Length,0.6270 O.D.,Spiral I.D. Conversion Guide

133 454 C.I., (7.4L), OHV, GAS, CARB, 16 Valve, Vin E, L, S, V, W, Y, Z
1971-89 V8 454 CID

GMT454LD-CA
BORE - 108mm/4.25""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1971-89	SB2125-38	2 1/8 O.D.,1 13/16 I.D.,3/16 Depth,W/ 2.065 Valve Head Dia.
	Exh	1971-89	SB1784E-1N	1.784 O.D.,1.417T I.D.,0.2920 Depth,W/ Factory Installed Exh Seat, Due To Seat Pocket Variance - Seat May Need To Be Topped.
		1971-89	SB1812-4N	1 13/16 O.D.,1 9/16 I.D.,7/32 Depth,Optional O/S Replacement For Late Cylinder Head W/ Factory Installed Exhaust Seat
		1971-89	SB1812-9N	1 13/16 O.D.,1 1/2 I.D.,5/16 Depth,Optional O/S Replacement For Late Cylinder Head W/ Factory Installed Exhaust Seat
Valve	Int	1971-89	01107	2.065 Head Diameter,+15 O/S Stem Available
	Exh	1971-89	01261S	1.720 Head Diameter,Stellite Face,+15 O/S Stem Available
		1985-89	01578S	1.720 Head Diameter,Inconel, Stellite Face,LPG

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

454 C.I., (7.4L), OHV, GAS, CARB, 16 Valve, Vin E, L, S, V, W, Y, Z
1971-89 V8 454 CID

GMT454LD-CA **133**
BORE - 108mm/4.25" (cont.)

PART	YEARS	PART NO.	NOTES
Keeper	Both 1971-89	121-1007	1 SQ Bead Type
Stem Seal	Both 1971-89 1971-89	122-1031 122-1045	Positive Type,Poly Material,2-Ring Style Umbrella Type,Poly Material,Umbrella Style
Guide	Int 1971-89	140-9973	0.3735 I.D.,2.420 Length,0.6255 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9973U), Must Pressure Test for Water Leak After Installation
	Exh 1971-84 1985-89	140-9972H 140-8113	0.3740 I.D.,2.630 Length,0.6203 O.D.,Hardened 0.3740 I.D.,2.435 Length,0.6205 O.D.,Caution - Drive Guide Out From Spring Side To Combustion Side Opposite From Old Style, Must Pressure Test for Water Leak After Installation
	1985-89	140-8256	0.3740 I.D.,2.755 Length,0.6205 O.D.,Same As 140-8113 But Not Cut For Seal, Must Pressure Test for Water Leak After Installation
Spring	Both 1971-74 1975-85	160-1011 160-1141	2.078 Length,W/ Damper,Single Spring 2.050 Length,W/ Damper
Rotator	Exh 1971-89	161-1013	
Lifter	Both 1971-89	VL37	Hydraulic Type
Rocker Components	Both 1971-89 1971-89	180-1229 181-1014	Rocker Arm Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 7/16 Nut,High Perf.
	1971-89	181-1048	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 7/16 Nut,High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More
	1971-89 1971-89	183-1026 184-1040	Grooved Ball, 7/16 Nut, 7/16
Push Rod	Int 1971-74 1971-74 1975-89	192-1337 192-1504 192-1339	8.280 Length,First Design, 0.375 Rod Dia. 8.280 Length,2nd Design, 0.312 Rod Dia. 8.230 Length,0.312 Rod Dia.
	Exh 1971-74 1971-74 1975-89	192-1336 192-1503 192-1338	9.252 Length,First Design, 0.375 Rod Dia. 9.252 Length,2nd Design, 0.312 Rod Dia. 9.200 Length,0.312 Rod Dia.
Head Bolt Set	1971-89	220-1107	Torque To Yield,Services Engine
Head Saver Shim	1971-89	230-2029	New Hgt. - Min. Hgt. N/A

454 C.I., (7.4L), OHV, GAS, CARB, 16 Valve, Vin S, W
1979-81 V8 454 CID

GMT454MD **134**
BORE - 108mm/4.25" (cont.)

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1979-81	SB2000-1	2.000 O.D.,1 3/4 I.D.,7/32 Depth,Also Available In Non-Magnetic (N) Material
	Exh 1979-81	SB1812-5N	1 13/16 O.D.,1 1/2 I.D.,1/4 Depth
Valve	Int 1979-81	00997	1.840 Head Diameter
	Exh 1979-81	01241SN	1.660 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both 1979-81	121-1007	1 SQ Bead Type
Stem Seal	Both 1979-81 1979-81	122-1031 122-1045	Positive Type,Poly Material,2-Ring Style Umbrella Type,Poly Material,Umbrella Style
Guide	Int 1979-81	140-9973	0.3735 I.D.,2.420 Length,0.6255 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9973U), Must Pressure Test for Water Leak After Installation
	Exh 1979-81	140-9972	0.3740 I.D.,2.630 Length,0.6203 O.D.,Spiral I.D. Conversion Guide,+3 O/S, -5 U/S I.D. Available (140-9972U)
	1979-81	140-9972H	0.3740 I.D.,2.630 Length,0.6203 O.D.,Hardened

GM TRUCK / PASSENGER TRUCK (Cont'd)

134 454 C.I., (7.4L), OHV, GAS, CARB, 16 Valve, Vin S, W
(cont.) 1979-81 V8 454 CID

GMT454MD
BORE - 108mm/4.25"

PART		YEARS	PART NO.	NOTES
Spring	Both	1979-81	160-1141	2.050 Length,W/ Damper
Rotator	Both	1979-81	161-1013	
Lifter	Both	1979-81	VL37	Hydraulic Type
Rocker Components	Both	1979-81	180-1229	Rocker Arm
		1979-81	181-1014	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 7/16 Nut,High Perf.
		1979-81	181-1048	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 7/16 Nut,High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More
		1979-81	183-1026	Grooved Ball, 7/16
		1979-81	184-1040	Nut, 7/16
Push Rod	Int	1979-81	192-1339	8.230 Length,0.312 Dia.
	Exh	1979-81	192-1338	9.200 Length,0.312 Dia.
Head Bolt Set		1979-81	220-1107	Torque To Yield,Services Engine
Head Saver Shim		1979-81	230-2029	

135 454 C.I., (7.4L), OHV, GAS, FI, 16 Valve, Vin B, J, N
1987-00 V8 454 CID

GMT454LD-FI
BORE - 108mm/4.25"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1987-00	SB2125-38	2 1/8 O.D., 1 13/16 I.D., 9/16 Depth
	Exh	1987-00	SB1784E-1N	1.784 O.D., 1.417T I.D., 0.2920 Depth, W/ Factory Installed Exh Seat, Due To Seat Pocket Variances, Seat May Need To Be Topped.
		1987-00	SB1812-4N	1 13/16 O.D., 1 9/16 I.D., 7/32 Depth, W/ 1.720 Valve Head Dia.
		1987-00	SB1812-9N	1 13/16 O.D., 1 1/2 I.D., 5/16 Depth, Optional O/S Replacement For Late Cylinder Head W/ Factory Installed Exhaust Seat; Use 01235S W/ 1.660 Head Dia.
Valve	Int	1987-00	01107	2.065 Head Diameter, +15 O/S Stem Available
	Exh	1987-00	01235S	1.660 Head Diameter, Recommended OEM Nickel Base Inconel Material, Stellite Face, Optional, LPG
		1987-00	01261S	1.720 Head Diameter, Stellite Face, +15 O/S Stem Available
		1987-00	01578S	1.720 Head Diameter, Inconel, Stellite Face, LPG
		1987-00	21235S	1.660 Head Diameter, Alternative Austenitic Material, Stellite Face, Nitrided, W/ 20 Degree Seat Angle, Optional LPG
Keeper	Both	1987-00	121-1007	1 SQ Bead Type
Stem Seal	Both	1987-00	122-1031	Positive Type, Poly Material, 2-Ring Style
		1987-00	122-1045	Umbrella Type, Poly Material, Umbrella Style
		1987-00	122-1330	Positive Type, Viton Material, Spring & Band Style, Universal Seal.
		1996-00	122-1287	Umbrella Type, Nylon/Viton Material, Viton Insert Style
Guide	Int	1987-00	140-9973	0.3735 I.D., 2.420 Length, 0.6255 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9973U), Must Pressure Test for Water Leak After Installation
	Exh	1987-00	140-8113	0.3740 I.D., 2.435 Length, 0.6205 O.D., Caution - Drive Guide Out From Spring Side To Combustion Side Opposite From Old Style, Must Pressure Test for Water Leak After Installation
		1987-00	140-8256	0.3740 I.D., 2.755 Length, 0.6205 O.D., Same As 140-8113 But Not Cut For Seal, Must Pressure Test for Water Leak After Installation
Spring	Both	1996-00	160-1410	2.050 Length, Conical
Rotator	Exh	1987-95	161-1013	
	Both	1996-00	161-1053	For Conical Spring

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

454 C.I., (7.4L), OHV, GAS, FI, 16 Valve, Vin B, J, N
1987-00 V8 454 CID

GMT454LD-FI **135**
BORE - 108mm/4.25" (cont.)

PART	YEARS	PART NO.	NOTES	
Lifter	Both	1987-90	VL37	Hydraulic Type
		1991-96	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1991-96	VL73	Hydraulic Type
		1997-00	VL163	Hydraulic Roller Type,VIN ""J""
Rocker Components	Both	1987-90	180-1229	Rocker Arm
		1987-90	181-1014	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 7/16 Nut,High Perf.
		1987-90	181-1048	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 7/16 Nut,High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More
		1987-90	183-1026	Grooved Ball, 7/16
		1987-90	184-1040	Nut, 7/16
		1991-00	180-1318	Rocker Arm
		1991-00	181-1064	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) Stud Blt
		1991-00	183-1034	Smooth Ball, 9/16
	1991-00	184-1045	Stud Bolt	
Push Rod	Int	1987-90	192-1339	8.230 Length,0.312 Dia.
		1991-95	192-1505	8.177 Length,OEM # 10106423
		1996-97	192-1507	7.642 Length,J Eng. W/ Roller Lifters
		1998-00	192-1511	7.640 Length,0.374 Dia., Mark VI
	Exh	1987-90	192-1338	9.200 Length,0.312 Dia.
		1991-95	192-1506	9.162 Length,OEM # 10106425
		1996-97	192-1508	8.595 Length,J Eng. W/ Roller Lifters
		1998-00	192-1512	8.591 Length,0.374 Dia., Mark VI
Head Bolt Set	1987-00	220-1107	Torque To Yield,Services Engine	
Head Saver Shim	1987-95	230-2029	New Hgt. - Min. Hgt. N/A	

478 C.I., (7.8L), OHV, DIESEL, FI, 12 Valve
1961-74 V6 478 CID

GMT478DH **136**
BORE - 130.1mm/5.125"''

PART	YEARS	PART NO.	NOTES	
Guide	Int	1961-74	140-6115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1961-74	140-7669	0.3735 I.D.,3.969 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Optional

478 C.I., (7.8L), OHV, GAS, CARB, 12 Valve
1962-65 V6 478 CID

GMT478 **137**
BORE - 130.2mm/5.125"''

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1962-65	SB2250-2	2 1/4 O.D., 1 7/8 I.D., 3/32 Depth
Keeper	Exh	1962-65	121-1003	1 SQ Bead Type
Guide	Int	1962-65	140-6115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1962-65	140-7669	0.3735 I.D.,3.969 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Optional
		1962-65	140-9115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	1962-65	140-9197	0.4375 I.D.,3.000 Length,0.6270 O.D.,Spiral I.D. Conversion Guide

GM TRUCK / PASSENGER TRUCK (Cont'd)

138 478 C.I., (7.8L), OHV, GAS, CARB, 12 Valve, 478M
1966-74 V6 478 CID

GMT478M
BORE - 130.2mm/5.125"

PART		YEARS	PART NO.	NOTES
Keeper	Exh	1966-74	121-1003	1 SQ Bead Type
Guide	Int	1966-74	140-6115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1966-74	140-7669	0.3735 I.D.,3.969 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Optional
		1966-74	140-9115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	1966-74	140-9197	0.4375 I.D.,3.000 Length,0.6270 O.D.,Spiral I.D. Conversion Guide

139 496 C.I., (8.1L), OHV, GAS, FI, 16 Valve, Vin G, ""Vortec""
2001-07 V8 496 CID

GMT8.1
BORE - 108mm/4.25"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2001-07	SB2250-1	2¼ O.D.,1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth,Non-Tapered I.D., Must Machine I.D. To Fit
	Exh	2001-07	SB1784E-1N	1.784 O.D.,1.417T I.D.,0.2920 Depth,W/ Factory Installed Exh Seat, Due To Seat Pocket Variances, Seat May Need To Be Topped.
Valve	Int	2001-07	01164	2.190 Head Diameter,Stainless Steel Alternate for Gasoline
		2001-07	02101	2.187 Head Diameter,Gasoline
	Exh	2001-07	02126S	1.720 Head Diameter,Inconel, Stellite Face,Gasoline, Natural Gas & LPG
Keeper	Both	2001-07	121-1007	1 SQ Bead Type
Stem Seal	Both	2001-07	122-1345	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2001-07	140-3025	0.3735 I.D.,2.250 Length,0.6265 O.D.,Replaces Factory Integral Guide.
	Exh	2001-07	140-3024	0.3735 I.D.,2.620 Length,0.6203 O.D.,Guide MUST be removed from Spring Side toward Combustion Chamber of Cylinder Head
Spring	Both	2001-07	160-1431	2.212 Length,Conical,Medium Duty Gasoline, Natural Gas & LPG
		2001-07	160-1446	2.190 Length,Conical,Light Duty Gasoline Only
Rotator	Exh	2001-07	161-1053	
Lifter	Both	2001-07	VL163	Hydraulic Roller Type
Rocker Components	Both	2001-07	180-1328	Rocker Arm, Stamped
		2001-07	183-1035	Smooth Ball, ⁷ / ₁₆
		2001-07	184-1033	Nut, 8mm
Push Rod	Int	2001-07	192-1510	8.190 Length
	Exh	2001-07	192-1509	9.132 Length
Head Bolt Set		2001-07	220-1084	Torque To Yield,2 Required
Head Saver Shim		2001-07	230-2164	2 Required, New Hgt. 3.377"

140 637 C.I., (10.4L), OHV, GAS, CARB, 16 Valve
1966-72 V8 637 CID

GMT637
BORE - 130.1mm/5.125"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1966-72	SB2250-2	2¼ O.D.,1 ⁷ / ₈ I.D., ⁹ / ₃₂ Depth

141 702 C.I., (11.6L), OHV, GAS, CARB, 12 Valve
1960-65 V12 702 CID

GMT702
BORE - 115.89mm/4.50"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1960-65	SB2250-2	2¼ O.D.,1 ⁷ / ₈ I.D., ⁹ / ₃₂ Depth
Keeper	Exh	1960-65	121-1003	1 SQ Bead Type

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

702 C.I., (11.6L), OHV, GAS, CARB, 12 Valve
1960-65 V12 702 CID

GMT702 **141**
BORE - 115.89mm/4.50" (cont.)

PART	YEARS	PART NO.	NOTES
Stem Seal	Both 1960-65	122-1043	O-Ring Type,Nitrile Material,O-Ring Style

HARLEY DAVIDSON / MOTORCYCLE

Engine	Models	Line No.
2 Cylinder		
883cc, (0.9L), V2, ""EVOLUTION 883"" (1986-94)	Sportster	1
900cc, (0.9L), V2, ""IRONHEAD 900cc "" (1957-85)	Sportster XLH/XLCH	2
1000cc, (1.0L), V2, ""PANHEAD 1000cc"" (1948-65)		3
1000cc, (1.0L), V2, ""IRONHEAD 1000cc"" (1957-85)	Sportster	4
1100cc, (1.1L), V2, ""EVOLUTION 1100cc"" (1986-94)		5
1200cc, (1.2L), V2, ""EVOLUTION 1200cc"" (1987-94)		6
1208cc, (1.2L), V2, ""KNUCKLEHEAD"" (1936-47)		7
1310cc, (1.3L), V2, ""SHOVELHEAD"" (1966-84)		8
1340cc, (1.3L), V2, ""EVOLUTION BIG TWIN"" (1984-02)		9

883cc, (0.9L), V2, ""EVOLUTION 883"" **883EVO 1**
1986-94 V2 54 CID BORE - mm/""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1986-94	SB1850E-2	47mm O.D.,36.5mm I.D.,10mm Depth,Also Available In Non-Magnetic (N) Material,Std. For 1986; Optional O/S Repair Seat for 1987-94
	Exh 1986-94	SB1625-8		1$\frac{5}{8}$ O.D.,1$\frac{3}{16}$ I.D.,$\frac{3}{8}$ Depth,Std. For 1986, O/S Repair Seat for 1987-94

900cc, (0.9L), V2, ""IRONHEAD 900cc "" **900IH 2**
1957-85 V2 55 CID BORE - mm/""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1957-85	SB2000-2	2.000 O.D.,1 $\frac{11}{16}$ I.D., $\frac{9}{32}$ Depth 1 $\frac{3}{4}$ O.D.,1 $\frac{7}{16}$ I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material,NOTE: For 30 Degree Valve, Must Cut Seat Angle to 30 Degree
	Exh 1957-85	SB1750-4	

1000cc, (1.0L), V2, ""PANHEAD 1000cc"" **PANHEAD 3**
1948-65 V2 61 CID BORE - mm/""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Both 1948-65	SB1969E-2	50mm O.D.,39mm I.D.,10.5mm Depth,Also Available In Non-Magnetic (N) Material,Optional O/S Repair Seat

1000cc, (1.0L), V2, ""IRONHEAD 1000cc"" **1000IH 4**
1957-85 V2 61 CID BORE - mm/""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1957-85	SB2062-8	2 $\frac{1}{16}$ O.D.,1 $\frac{11}{16}$ I.D., $\frac{9}{32}$ Depth 1 $\frac{3}{4}$ O.D.,1 $\frac{7}{16}$ I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material,NOTE: For 30 Degree Valve, Must Cut Seat Angle to 30 Degree
	Exh 1957-85	SB1750-4	

1100cc, (1.1L), V2, ""EVOLUTION 1100cc"" **1100EVO 5**
1986-94 V2 67 CID BORE - mm/""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1986-86	SB1969E-2	50mm O.D.,39mm I.D.,10.5mm Depth,Also Available In Non-Magnetic (N) Material

HARLEY DAVIDSON / MOTORCYCLE (Cont'd)

5 1100cc, (1.1L), V2, ""EVOLUTION 1100cc"" 1100EVO
 (cont.) 1986-94 V2 67 CID BORE - mm/""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1987-94	47mm O.D.,36.5mm I.D.,10mm Depth,Also Available In Non-Magnetic (N) Material,Optional O/S Repair Seat
	Exh	1986-86	
		1987-94	
		SB1850E-2	
		SB1772E-2	45mm O.D.,34.5mm I.D.,10mm Depth,Also Available In Non-Magnetic (N) Material
		SB1625-8	1 $\frac{5}{8}$ O.D.,1 $\frac{3}{16}$ I.D., $\frac{3}{8}$ Depth,Optional O/S Repair Seat

6 1200cc, (1.2L), V2, ""EVOLUTION 1200cc"" 1200EVO
 1987-94 V2 73 CID BORE - mm/""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1987-94	47mm O.D.,36.5mm I.D.,10mm Depth,Also Available In Non-Magnetic (N) Material,Optional O/S Repair Seat
	Exh	1987-94	
		SB1850E-2	
		SB1625-8	1 $\frac{5}{8}$ O.D.,1 $\frac{3}{16}$ I.D., $\frac{3}{8}$ Depth,Optional O/S Repair Seat

7 1208cc, (1.2L), V2, ""KNUCKLEHEAD"" KNUCKLEHEAD
 1936-47 V2 74 CID BORE - mm/""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Both	1936-47	1 $\frac{7}{8}$ O.D.,1 $\frac{9}{16}$ I.D., $\frac{1}{4}$ Depth,Optional, Use W/ 1 $\frac{7}{8}$ Cutter
		SB1875-2	

8 1310cc, (1.3L), V2, ""SHOVELHEAD"" SHOVELHEAD
 1966-84 V2 80 CID BORE - mm/""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1966-84	55mm O.D.,44mm I.D.,11mm Depth,Also Available In Non-Magnetic (N) Material,Optional O/S Repair Seat
	Exh	1966-84	
		SB2165E-1	
		SB1969E-2	50mm O.D.,39mm I.D.,10.5mm Depth,Also Available In Non-Magnetic (N) Material,Optional O/S Repair Seat
Stem Seal	Both	1966-84	Positive Type,Teflon Material,Metal Clad Style,OEM # 18000-81
		122-1400	

9 1340cc, (1.3L), V2, ""EVOLUTION BIG TWIN"" 1340EVO
 1984-02 V2 82 CID BORE - mm/""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1984-94	50mm O.D.,39mm I.D.,10.5mm Depth,Also Available In Non-Magnetic (N) Material,Optional O/S Repair Seat
	Exh	1984-94	
		SB1969E-2	
		SB1772E-2	45mm O.D.,34.5mm I.D.,10mm Depth,Also Available In Non-Magnetic (N) Material,Optional, O/S Repair Seats
Stem Seal	Both	1984-02	Positive Type,Teflon Material,Metal Clad Style,OEM # 18001-83B
		122-1399	

HERCULES / HEAVY DUTY

Engine	Models	Line No.
3 Cylinder		
130 C.I., (2.1L), DD130, Diesel, OHV, 6 Valve, ""Multi-Purpose""		2
4 Cylinder		
113 C.I., (1.9L), IXA, Gas, OHV, 8 Valve, ""Multi-Purpose""		1
6 Cylinder		
191 C.I., (3.1L), QX Series, Gas, OHV, 12 Valve, ""Multi-Purpose""		3
228 C.I., (3.7L), JX Series, Gas, OHV, 12 Valve		4

(Cont'd) **HERCULES / HEAVY DUTY**

113 C.I., (1.9L), IXA, Gas, OHV, 8 Valve, ""Multi-Purpose"" IXA **1**
L4 113 CID BORE - 76.2mm/3.00""

PART	PART NO.	NOTES
Guide	Both 140-1568	0.3120 I.D.,2.094 Length,0.4856 O.D.,Check For Correct O.D.

130 C.I., (2.1L), DD130, Diesel, OHV, 6 Valve, ""Multi-Purpose"" DD130 **2**
L3 130 CID BORE - 88.9mm/3.50""

PART	PART NO.	NOTES
Guide	Both 140-7376	0.3750 I.D.,2.734 Length,0.6268 O.D.,Machined For Seal

191 C.I., (3.1L), QX Series, Gas, OHV, 12 Valve, ""Multi-Purpose"" QX_Series **3**
L6 191 CID BORE - 79.4mm/3.125""

PART	PART NO.	NOTES
Guide	Both 140-1697	0.3120 I.D.,2.094 Length,0.5325 O.D.

228 C.I., (3.7L), JX Series, Gas, OHV, 12 Valve JX_Series **4**
L6 228 CID BORE - 85.7mm/3.375""

PART	PART NO.	NOTES
Guide	Both 140-1618	0.3745 I.D.,2.375 Length,0.6573 O.D.

HINO / HEAVY DUTY

Engine	Models	Line No.
4 Cylinder		
234 C.I., (3.8L), WO4C-TB,TC/TD/TE, Diesel, OHV, 8 Valve, 1984-92, ""14 SERIES""	14 SERIES 1984-92	1
289 C.I., (4.7L), J05D-TA, Diesel, SOHC, 16 Valve, 2005-10, ""TURBO""		2
312 C.I., (5.0L), J05E-TP/UG, Diesel, SOHC, 16 Valve, 2012-19, ""TURBO""		3
324 C.I., (5.3L), J05C-TB/TD, Diesel, SOHC, 16 Valve, 1998-04, ""17 Series TURBO""	FA1517, FB1817 Series	4
5 Cylinder		
405 C.I., (6.6L), JO7C, Diesel, SOHC, 20 Valve, ""TURBO""		13
6 Cylinder		
364 C.I., (6.0L), WO6E-B,C, Diesel, OHV, 12 Valve, 1984-92, ""16 SERIES""	16 SERIES 1984-92	5
393 C.I., (6.4L), WO6C-TI, TH/TM, Diesel, OHV, 12 Valve, 1984-97, ""15 SERIES""	15 SERIES 1984-97	6
396 C.I., (6.5L), HO6C-TC, TD/TJ, Diesel, OHV, 12 Valve, 1984-91, ""19 SERIES""	19 SERIES 1984-91	7
396 C.I., (6.5L), HO6C-TN, Diesel, OHV, 12 Valve, 1984-97, ""20 SERIES""	20 SERIES 1984-97	8
396 C.I., (6.5L), HO6C-TH/TM, Diesel, OHV, 12 Valve, 1987-97, ""23 SERIES""	23 SERIES 1987-97	9
396 C.I., (6.5L), HO6C-TM/TV, Diesel, OHV, 12 Valve, 1993-97, ""1H SERIES 225HP""	1H SERIES 225HP 1993-97	10
396 C.I., (6.5L), HO6C-TN/TU, Diesel, OHV, 12 Valve, 1984-97, ""4H SERIES 200HP""	4H SERIES 200HP 1984-97	11
396 C.I., (6.5L), HO6C-TP/TT, Diesel, OHV, 12 Valve, ""5H SERIES 1993-97""	5H SERIES 1993-97	12
411 C.I., (6.7L), HO7C-B, C/F/G, Diesel, OHV, 12 Valve, 1984-91, ""17 SERIES""	17 SERIES 1984-91	14

HINO / HEAVY DUTY (Cont'd)

Engine	Models	Line No.
6 Cylinder		
469 C.I., (7.7L), JO8E, Diesel, SOHC, 24 Valve, 2005-2019, ""TURBO""		15
486 C.I., (8.0L), JO8C, Diesel, SOHC, 24 Valve, ""TURBO""		16
575 C.I., (9.4L), EM100-E/F, Diesel, OHV, 12 Valve, 1984-86, ""22 SERIES""	22 SERIES 1984-86	17

1 234 C.I., (3.8L), WO4C-TB,TC/TD/TE, Diesel, OHV, 8 Valve, 1984-92, ""14 SERIES"" WO4C-TB

L4 234 CID BORE - 104mm/4.094""BORE - 104mm/4.095""

PART	PART NO.	NOTES	
Valve	Int Exh	13095 13096	1.791 Head Diameter,OEM # 137311521 1.575 Head Diameter,OEM # 137151570
Stem Seal	Both	122-1402	Positive Type,Viton Material,Metal Clad Style,OEM # 137191510, 137191350
Spring	Both	160-1532 160-1533	2.350 Length,Inner, OEM # 137321340, 1987-92 2.270 Length,Outer, OEM # 137311400, 1987-92

2 289 C.I., (4.7L), J05D-TA, Diesel, SOHC, 16 Valve, 2005-10, ""TURBO"" J05D

L4 289 CID BORE - 112.0mm/4.409""

PART	PART NO.	NOTES	
Valve Seat Insert	Int Exh	SB1618E-2 SB1541E-1	1.618 O.D.,1.340R I.D.,0.2800 Depth,OEM #11131-1380 1.541 O.D.,1.275T I.D.,0.2410 Depth,OEM # 11135-1720
Valve	Int Exh	13465 13466	1.531 Head Diameter,OEM #13711-1631 1.453 Head Diameter,OEM #13715-1732
Keeper	Both	121-1062	1 RD Bead Type,OEM#SZ91026013
Stem Seal	Both	122-1507	Positive Type,Viton Material,Metal Clad Style,OEM #13719-1470
Guide	Both	140-3212	0.2755 I.D.,2.380 Length,0.5130 O.D.,OEM #1112-21220
Spring	Both	160-1698 160-1699	2.587 Length,Inner Spring OEM #137321500A 3.055 Length,Outer Spring, OEM #137311610A

3 312 C.I., (5.0L), J05E-TP/UG, Diesel, SOHC, 16 Valve, 2012-19, ""TURBO"" J05E

L4 312 CID BORE - 112.0mm/4.409""

PART	PART NO.	NOTES	
Valve Seat Insert	Int Exh	SB1618E-2 SB1541E-1	1.618 O.D.,1.340R I.D.,0.2800 Depth,OEM #11131-1380 1.541 O.D.,1.275T I.D.,0.2410 Depth,OEM # 11135-1720
Valve	Int Exh	13465 13466	1.531 Head Diameter,OEM #13711-1631 1.453 Head Diameter,OEM #13715-1732
Keeper	Both	121-1062	1 RD Bead Type,OEM#SZ91026013
Stem Seal	Both	122-1507	Positive Type,Viton Material,Metal Clad Style,OEM #13719-1470
Guide	Both	140-3212	0.2755 I.D.,2.380 Length,0.5130 O.D.,OEM #1112-21220
Spring	Both	160-1698 160-1699	2.587 Length,Inner Spring OEM #137321500A 3.055 Length,Outer Spring, OEM #137311610A
Head Saver Shim		230-2202	New Hgt.-4.573", Min. Hgt.-N/A

4 324 C.I., (5.3L), J05C-TB/TD, Diesel, SOHC, 16 Valve, 1998-04, ""17 Series TURBO"" J05C

L4 324 CID BORE - 114.0mm/4.488""

PART	PART NO.	NOTES	
Valve Seat Insert	Int Exh	SB1618E-2 SB1541E-1	1.618 O.D.,1.340R I.D.,0.2800 Depth,OEM #11131-1380 1.541 O.D.,1.275T I.D.,0.2410 Depth,OEM # 11135-1720
Valve	Int	13465	1.531 Head Diameter,OEM #13711-1631

(Cont'd) HINO / HEAVY DUTY**324 C.I., (5.3L), J05C-TB/TD, Diesel, SOHC, 16 Valve, 1998-04, ""17 Series TURBO""****4**

J05C (cont.)

L4 324 CID

BORE - 114.0mm/4.488""

PART		PART NO.	NOTES
Valve	Exh	13466	1.453 Head Diameter,OEM #13715-1732
Keeper	Both	121-1062	1 RD Bead Type,OEM#SZ91026013
Stem Seal	Both	122-1507	Positive Type,Viton Material,Metal Clad Style,OEM #13719-1470
Guide	Both	140-3212	0.2755 I.D.,2.380 Length,0.5130 O.D.,OEM #1112-21220
Spring	Both	160-1698 160-1699	2.587 Length,Inner Spring OEM #137321500A 3.055 Length,Outer Spring, OEM #137311610A
Head Saver Shim		230-2201	New Hgt.-4.573", Min. Hgt.-N/A

364 C.I., (6.0L), WO6E-B,C, Diesel, OHV, 12 Valve, 1984-92, ""16 SERIES""

WO6E-B

5

L6 364 CID

BORE - 104mm/4.094""

PART		PART NO.	NOTES
Valve	Int Exh	13095 13096	1.791 Head Diameter,OEM # 137311521 1.575 Head Diameter,OEM # 137151570
Stem Seal	Both	122-1402	Positive Type,Viton Material,Metal Clad Style,OEM # 137191510, 137191350
Spring	Both	160-1532 160-1533	2.350 Length,Inner, OEM # 137321340, 1986-87 2.270 Length,Outer, OEM # 137111400, 1986-87

393 C.I., (6.4L), WO6C-TI, TH/TM, Diesel, OHV, 12 Valve, 1984-97, ""15 SERIES""

WO4C-TI

6

L6 393 CID

BORE - 104mm/4.094""

PART		PART NO.	NOTES
Valve	Int Exh	13095 13096	1.791 Head Diameter,OEM # 137311521, 1984-92 1.575 Head Diameter,OEM # 137151570, 1984-92
Stem Seal	Both	122-1402	Positive Type,Viton Material,Metal Clad Style,OEM # 137191510, 137191350
Spring	Both	160-1532 160-1533	2.350 Length,Inner, OEM # 137321340, 1992-97 2.270 Length,Outer, OEM # 137311400, 1992-97

396 C.I., (6.5L), HO6C-TC, TD/TJ, Diesel, OHV, 12 Valve, 1984-91, ""19 SERIES""

HO6C-TC

7

L6 396 CID

BORE - 108mm/4.252""

PART		PART NO.	NOTES
Valve	Int Exh	13091 13097 13092 13098	1.884 Head Diameter,OEM # 137311471, 1984-86 1.884 Head Diameter,OEM # 137111550, 1987-91 1.624 Head Diameter,OEM # 137151520, 1984-86 1.624 Head Diameter,OEM # 137151591, 1987-91
Stem Seal	Both	122-1402	Positive Type,Viton Material,Metal Clad Style,OEM # 137191510, 137191350
Spring	Both	160-1531 160-1536 160-1537 160-1563	2.504 Length,Outer, OEM # 137311360, 1984-86 2.649 Length,Inner, OEM # 137321380, 137321470; 1987-91 2.565 Length,Outer, OEM # 137311440, 137311580; 1987-91 2.431 Length,Inner, OEM # 137321300, 1984-86

396 C.I., (6.5L), HO6C-TN, Diesel, OHV, 12 Valve, 1984-97, ""20 SERIES""

HO6C-TN

8

L6 396 CID

BORE - 108mm/4.252""

PART		PART NO.	NOTES
Valve	Int Exh	13097 13098	1.884 Head Diameter,OEM # 137111550, 1984-92 1.624 Head Diameter,OEM # 137151591, 1993-97

HINO / HEAVY DUTY (Cont'd)

8 396 C.I., (6.5L), HO6C-TN, Diesel, OHV, 12 Valve, 1984-97, ""20 SERIES"" HO6C-TN
(cont.) L6 396 CID BORE - 108mm/4.252""

PART		PART NO.	NOTES
Stem Seal	Both	122-1402	Positive Type,Viton Material,Metal Clad Style,OEM # 137191510, 137191350
Spring	Both	160-1536 160-1537	2.649 Length,Inner, OEM # 137321470, 1984-92 2.565 Length,Outer, OEM # 137311580, 1984-92

9 396 C.I., (6.5L), HO6C-TH/TM, Diesel, OHV, 12 Valve, 1987-97, ""23 SERIES"" HO6C-TH
L6 396 CID BORE - 104mm/4.252""

PART		PART NO.	NOTES
Valve	Int Exh	13097 13098	1.884 Head Diameter,OEM # 137111550, 1992-97 1.624 Head Diameter,OEM # 137151591, 1992-97
Stem Seal	Both	122-1402	Positive Type,Viton Material,Metal Clad Style,OEM # 137191510, 137191350
Spring	Both	160-1536 160-1537	2.649 Length,Inner, OEM # 137321380, 137321470 2.565 Length,Outer, OEM # 137311440, 137311580

10 396 C.I., (6.5L), HO6C-TM/TV, Diesel, OHV, 12 Valve, 1993-97, ""1H SERIES
225HP"" HO6C-TM
L6 396 CID BORE - 104mm/4.252""

PART		PART NO.	NOTES
Valve	Int Exh	13097 13098	1.884 Head Diameter,OEM # 137111550 1.624 Head Diameter,OEM # 137151591
Stem Seal	Both	122-1402	Positive Type,Viton Material,Metal Clad Style,OEM # 137191510, 137191350
Spring	Both	160-1536 160-1537	2.649 Length,Inner, OEM # 137321470 2.565 Length,Outer, OEM # 137311580

11 396 C.I., (6.5L), HO6C-TN/TU, Diesel, OHV, 12 Valve, 1984-97, ""4H SERIES
200HP"" HO6C-TU
L6 396 CID BORE - 104mm/4.252""

PART		PART NO.	NOTES
Valve	Int Exh	13097 13098	1.884 Head Diameter,OEM # 137111550, 1993-97 1.624 Head Diameter,OEM # 137151591, 1984-92
Stem Seal	Both	122-1402	Positive Type,Viton Material,Metal Clad Style,OEM # 137191510, 137191350
Spring	Both	160-1536 160-1537	2.649 Length,Inner, OEM # 137321470, 1993-97 2.565 Length,Outer, OEM # 137311580, 1993-97

12 396 C.I., (6.5L), HO6C-TP/TT, Diesel, OHV, 12 Valve, ""5H SERIES 1993-97"" HO6C-TP
L6 396 CID BORE - 104mm/4.252""

PART		PART NO.	NOTES
Valve	Int Exh	13097 13098	1.884 Head Diameter,OEM # 137111550 1.624 Head Diameter,OEM # 137151591
Stem Seal	Both	122-1402	Positive Type,Viton Material,Metal Clad Style,OEM # 137191510, 137191350
Spring	Both	160-1536 160-1537	2.649 Length,Inner, OEM # 137321470 2.565 Length,Outer, OEM # 137311580

13 405 C.I., (6.6L), JO7C, Diesel, SOHC, 20 Valve, ""TURBO"" JO7C
L5 405 CID BORE - 114.0mm/4.488""

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1618E-2 SB1541E-1	1.618 O.D.,1.340R I.D.,0.2800 Depth,OEM #11131-1380 1.541 O.D.,1.275T I.D.,0.2410 Depth,OEM # 11135-1720

(Cont'd) HINO / HEAVY DUTY**405 C.I., (6.6L), JO7C, Diesel, SOHC, 20 Valve, ""TURBO""****J07C 13**

L5 405 CID

BORE - 114.0mm/4.488"" (cont.)

PART		PART NO.	NOTES
Valve	Int	13465	1.531 Head Diameter,OEM #13711-1631
	Exh	13466	1.453 Head Diameter,OEM #13715-1732
Keeper	Both	121-1062	1 RD Bead Type,OEM#SZ91026013
Stem Seal	Both	122-1507	Positive Type,Viton Material,Metal Clad Style,OEM #13719-1470
Guide	Both	140-3212	0.2755 I.D.,2.380 Length,0.5130 O.D.,OEM #1112-21220
Spring	Both	160-1698	2.587 Length,Inner Spring OEM #137321500A
		160-1699	3.055 Length,Outer Spring, OEM #137311610A

411 C.I., (6.7L), HO7C-B, C/F/G, Diesel, OHV, 12 Valve, 1984-91, ""17 SERIES"" HO7C-B 14

L6 411 CID

BORE - 110mm/4.331""BORE - 110mm/4.330""

PART		PART NO.	NOTES
Valve	Int	13091	1.884 Head Diameter,OEM # 137311471, 1984-86
		13097	1.884 Head Diameter,OEM # 137111550, 1987-91
	Exh	13092	1.624 Head Diameter,OEM # 137151520, 1984-86
		13098	1.624 Head Diameter,OEM # 137151591, 1987-91
Stem Seal	Both	122-1402	Positive Type,Viton Material,Metal Clad Style,OEM # 137191510, 137191350
Spring	Both	160-1531	2.504 Length,Outer, OEM # 137311360, 1984-86
		160-1536	2.649 Length,Inner, OEM # 137321380, 137321470; 1987-91
		160-1537	2.565 Length,Outer, OEM # 137311440, 137311580; 1987-91
		160-1563	2.431 Length,Inner, OEM # 137321300, 1984-86

469 C.I., (7.7L), JO8E, Diesel, SOHC, 24 Valve, 2005-2019, ""TURBO""**J08E 15**

L6 469 CID

BORE - 112.0mm/4.409""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1618E-2	1.618 O.D.,1.340R I.D.,0.2800 Depth,OEM #11131-1380
	Exh	SB1541E-1	1.541 O.D.,1.275T I.D.,0.2410 Depth,OEM # 11135-1720
Valve	Int	13465	1.531 Head Diameter,OEM #13711-1631
	Exh	13466	1.453 Head Diameter,OEM #13715-1732
Keeper	Both	121-1062	1 RD Bead Type,OEM#SZ91026013
Stem Seal	Both	122-1507	Positive Type,Viton Material,Metal Clad Style,OEM #13719-1470
Guide	Both	140-3212	0.2755 I.D.,2.380 Length,0.5130 O.D.,OEM #1112-21220
Spring	Both	160-1698	2.587 Length,Inner Spring OEM #137321500A
		160-1699	3.055 Length,Outer Spring, OEM #137311610A
Head Saver Shim		230-2199	New Hgt.-3.7410"", Min Hgt.-N/A; 1 Required

486 C.I., (8.0L), JO8C, Diesel, SOHC, 24 Valve, ""TURBO""**J08C 16**

L6 486 CID

BORE - 114.0mm/4.488""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1618E-2	1.618 O.D.,1.340R I.D.,0.2800 Depth,OEM #11131-1380
	Exh	SB1541E-1	1.541 O.D.,1.275T I.D.,0.2410 Depth,OEM # 11135-1720
Valve	Int	13465	1.531 Head Diameter,OEM #13711-1631
	Exh	13466	1.453 Head Diameter,OEM #13715-1732
Keeper	Both	121-1062	1 RD Bead Type,OEM#SZ91026013
Stem Seal	Both	122-1507	Positive Type,Viton Material,Metal Clad Style,OEM #13719-1470
Guide	Both	140-3212	0.2755 I.D.,2.380 Length,0.5130 O.D.,OEM #1112-21220
Spring	Both	160-1698	2.587 Length,Inner Spring OEM #137321500A
		160-1699	3.055 Length,Outer Spring, OEM #137311610A
Head Saver Shim		230-2199	New Hgt.-3.7410"", Min Hgt.-N/A; 1 Required

HINO / HEAVY DUTY (Cont'd)

17 575 C.I., (9.4L), EM100-E/F, Diesel, OHV, 12 Valve, 1984-86, ""22 SERIES"" EM100-E
L6 575 CID BORE - 124mm/4.881""

PART	PART NO.	NOTES
Valve	Int 13093	2.125 Head Diameter,OEM # 137311480
	Exh 13094S	1.886 Head Diameter,Stellite Face,OEM # 137151240

HONDA / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
3 Cylinder		
995cc, (1.0L), SOHC, ELECTRIC/GAS, FI, 12 Valve, ECA1, ""VTEC-E Hybrid"" (2000-06)	Insight Hybrid	1
4 Cylinder		
1237cc, (1.2L), GAS, CARB, 8 Valve, EB1 (1973-73)	Civic	2
1237cc, (1.2L), SOHC, GAS, CARB, 8 Valve, EB2 (1974-77)	Civic	3
1237cc, (1.2L), SOHC, GAS, CARB, 8 Valve, EB3 (1978-79)	Civic	4
1335cc, (1.3L), SOHC, GAS, CARB, 8 Valve, EJI (1980-83)	Civic	5
1339cc, (1.3L), SOHC, ELECTRIC/GAS, FI, 8 Valve, LDA1, ""i-VTEC Hybrid"" (2003-05)	Civic Hybrid	6
1339cc, (1.3L), SOHC, ELECTRIC/GAS, FI, 8 Valve, LDA2, ""i-VTEC Hybrid"" (2006-11)	Civic	7
1339cc, (1.3L), SOHC, ELECTRIC/GAS, FI, 8 Valve, LDA3, ""i-VTEC Hybrid"" (2010-14)	Insight	8
1342cc, (1.3L), SOHC, GAS, CARB, 16 Valve, EV1 (1984-86)	Civic	9
1342cc, (1.3L), SOHC, GAS, CARB, 16 Valve, D13A2 (1987-87)	Civic	10
1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve, ED1 (1975-75)	Civic	11
1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve, ED2 (1976-76)	Civic	12
1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve, ED3 (1976-79)	Civic	13
1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve, ED4 (1977-79)	Civic	14
1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve, EM1 (1980-83)	Civic	15
1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve, EW1 (1984-86)	Civic, Wagovan	16
1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve, EW1, ""High Fuel"" (1985-86)	Civic	17
1487cc, (1.5L), SOHC, GAS, FI, 12 Valve, EW3 (1985-85)	Civic CRX Si	18
1487cc, (1.5L), SOHC, GAS, FI, 12 Valve, EW4 (1986-86)	Civic, CRX	19
1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve, D15A2 (1987-87)	Wagovan	20
1487cc, (1.5L), SOHC, GAS, FI, 12 Valve, D15A3 (1987-87)	Civic, CRX	21
1493cc, (1.5L), SOHC, GAS, FI, 16 Valve, D15B1 (1988-91)	Civic	22
1493cc, (1.5L), SOHC, GAS, FI, 16 Valve, D15B2 (1988-91)	Civic, CRX	23
1493cc, (1.5L), SOHC, GAS, FI, 8 Valve, D15B6 (1988-91)	CRX	24
1493cc, (1.5L), SOHC, GAS, FI, 16 Valve, D15B7 (1992-95)	Civic, Civic del Sol	25
1493cc, (1.5L), SOHC, GAS, FI, 8 Valve, D15B8 (1992-95)	Civic	26

(Cont'd) HONDA / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
1493cc, (1.5L), SOHC, GAS, FI, 16 Valve, D15Z1, ""VTEC-E"" (1992-95)	Civic	27
1497cc, (1.5L), SOHC, GAS, FI, 16 Valve, L15A1, ""i-VTEC"" (2007-08)	Fit	28
1497cc, (1.5L), SOHC, GAS, FI, 16 Valve, L15A7, ""i-VTEC"" (2009-14)	Fit	29
1497cc, (1.5L), DOHC, GAS, FI, 16 Valve, L15B1, ""i-VTEC"" (2015-20)	Fit	30
1497cc, (1.5L), DOHC, GAS, FI, 16 Valve, L15B7, ""i-VTEC TURBO"" (2016-20)	Civic	31
1497cc, (1.5L), DOHC, GAS, FI, 16 Valve, L15BA, ""i-VTEC TURBO"" (2017-20)	Civic	32
1497cc, (1.5L), DOHC, GAS, FI, 16 Valve, L15BE, ""i-VTEC TURBO"" (2017-20)	Accord, CR-V	33
1497cc, (1.5L), SOHC, ELECTRIC/GAS, FI, 16 Valve, LEA1, ""i-VTEC Hybrid"" (2011-16)	CR-Z	34
1497cc, (1.5L), SOHC, ELECTRIC/GAS, FI, 8 Valve, LEA2, ""i-VTEC Hybrid"" (2012-15)	Civic	35
1497cc, (1.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, LEB3, ""i-VTEC Hybrid"" (2018-20)	Clarity	36
1497cc, (1.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, LEB6, ""i-VTEC Hybrid"" (2019-21)	Insight	37
1590cc, (1.6L), SOHC, GAS, FI, 16 Valve, D16A6 (1988-91)	Civic, CRX	38
1590cc, (1.6L), SOHC, GAS, FI, 16 Valve, D16Y5, ""VTEC-E"" (1996-00)	Civic HX	39
1590cc, (1.6L), SOHC, GAS, FI, 16 Valve, D16Y7 (1996-00)	Civic, Civic del Sol	40
1590cc, (1.6L), SOHC, GAS, FI, 16 Valve, D16Y8, ""VTEC"" (1996-00)	Civic, Civic del Sol Si	41
1590cc, (1.6L), SOHC, GAS, FI, 16 Valve, D16Z6, ""VTEC"" (1992-95)	Civic, Civic del Sol	42
1595cc, (1.6L), DOHC, GAS, FI, 16 Valve, B16A2, ""VTEC"" (1996-00)	Civic, Civic del Sol VTEC	43
1595cc, (1.6L), DOHC, GAS, FI, 16 Valve, B16A3, ""VTEC"" (1994-95)	Civic del Sol	44
1599cc, (1.6L), SOHC, GAS, CARB, 12 Valve, EF1 (1976-78)	Accord	45
1668CC, (1.7L), SOHC, GAS, FI, 16 Valve, D17A1, ""VTEC"" (2001-05)	Civic	46
1668cc, (1.7L), SOHC, GAS, FI, 16 Valve, D17A2, ""VTEC-E"" (2001-05)	Civic EX, SI	47
1668cc, (1.7L), SOHC, GAS, FI, 16 Valve, D17A6, ""VTEC-E"" (2001-05)	Civic	48
1668cc, (1.7L), SOHC, CNG, FI, 16 Valve, D17A7 (2001-05)	Civic	49
1799cc, (1.8L), SOHC, GAS, FI, 16 Valve, R18A1, ""i-VTEC"" (2006-11)	Civic	50
1799cc, (1.8L), SOHC, CNG, FI, 16 Valve, R18A4, ""i-VTEC"" (2006-11)	Civic	51
1799cc, (1.8L), SOHC, CNG, FI, 16 Valve, R18A9, ""i-VTEC"" (2012-15)	Civic CNG	52
1799cc, (1.8L), SOHC, GAS, FI, 16 Valve, R18Z1, ""i-VTEC"" (2012-15)	Civic	53

HONDA / PASSENGER CAR OR TRUCK (Cont'd)

Engine	Models	Line No.
4 Cylinder		
1799cc, (1.8L), SOHC, GAS, FI, 16 Valve, R18Z9, ""i-VTEC"" (2016-20)	HR-V	54
1829cc, (1.8L), SOHC, GAS, CARB, 12 Valve, A18A1 (1987-87)	Prelude	55
1829cc, (1.8L), SOHC, GAS, CARB, 8 Valve, ES1 (1983-83)	Prelude	56
1829cc, (1.8L), SOHC, GAS, CARB, 12 Valve, ES2 (1984-85)	Accord	57
1829cc, (1.8L), SOHC, GAS, CARB, 12 Valve, ES3 (1984-85)	Accord	58
1829cc, (1.8L), SOHC, GAS, CARB, 12 Valve, ET2 (1984-86)	Prelude	59
1955cc, (2.0L), SOHC, GAS, CARB, FI, 12 Valve, BS (1986-86)	Accord	60
1955cc, (2.0L), SOHC, GAS, FI, 12 Valve, BT (1986-86)	Accord, Prelude Si	61
1955cc, (2.0L), SOHC, GAS, CARB, 12 Valve, A20A1 (1987-89)	Accord	62
1955cc, (2.0L), SOHC, GAS, FI, 12 Valve, A20A3 (1987-89)	Accord	63
1958cc, (2.0L), SOHC, GAS, CARB, 12 Valve, B20A3 (1988-90)	Prelude	64
1958cc, (2.0L), DOHC, GAS, FI, 16 Valve, B20A5 (1988-91)	Prelude	65
1972cc, (2.0L), DOHC, GAS, FI, 16 Valve, B20B4 (1997-98)	CR-V	66
1972cc, (2.0L), DOHC, GAS, FI, 16 Valve, B20Z2, ""VTEC"" (1999-01)	CR-V	67
1993cc, (2.0L), DOHC, ELECTRIC/GAS, FI, 16 Valve, LFA1, ""Hybrid"" (2014-18)	Accord	68
1993cc, (2.0L), DOHC, ELECTRIC/GAS, FI, 16 Valve, LFB2, ""Hybrid"" (2018-20)	Accord, CR-V	69
1996cc, (2.0L), DOHC, GAS, FI, 16 Valve, K20C1, ""i-VTEC TURBO"" (2017-20)	Civic	70
1996cc, (2.0L), DOHC, GAS, FI, 16 Valve, K20C2, ""i-VTEC"" (2016-20)	Civic	71
1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, F20C1, ""VTEC"" (2000-03)	S2000 VTEC	72
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, K20A3, ""i-VTEC"" (2002-05)	Civic	73
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, K20Z3, ""i-VTEC"" (2006-11)	Civic	74
2056cc, (2.1L), DOHC, GAS, FI, 16 Valve, B21A1 (1990-91)	Prelude	75
2156cc, (2.2L), SOHC, GAS, FI, 16 Valve, F22A1, F22A4, F22A6 (1990-96)	Accord, Prelude VTEC	76
2156cc, (2.2L), SOHC, GAS, FI, 16 Valve, F22B1, ""VTEC"" (1994-97)	Accord	77
2156cc, (2.2L), SOHC, GAS, FI, 16 Valve, F22B2 (1994-97)	Accord	78
2156cc, (2.2L), SOHC, GAS, FI, 16 Valve, F22B6 (1995-97)	Odyssey	79
2156cc, (2.2L), DOHC, GAS, FI, 16 Valve, H22A1, ""VTEC"" (1993-96)	Prelude VTEC	80
2156cc, (2.2L), DOHC, GAS, FI, 16 Valve, H22A4, ""VTEC"" (1997-01)	Prelude VTEC	81
2157cc, (2.2L), DOHC, GAS, FI, 16 Valve, F22C1, ""VTEC"" (2005-09)	S2000	82

(Cont'd) HONDA / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
2254cc, (2.3L), SOHC, GAS, FI, 16 Valve, F23A1, F23A4, F23A5, F23A7, ""i-VTEC"" (1998-02)	Accord, Odyssey	83
2259cc, (2.3L), DOHC, GAS, FI, 16 Valve, H23A1 (1992-96)	Prelude	84
2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24A1, ""i-VTEC"" (2002-06)	CR-V	85
2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24A4, ""i-VTEC"" (2003-06)	Accord, Element	86
2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24A8, ""i-VTEC"" (2006-11)	Accord, Element	87
2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Y2, ""i-VTEC"" (2012-15)	Crosstour	88
2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Z1, ""i-VTEC"" (2007-09)	CR-V	89
2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Z2, ""i-VTEC"" (2008-12)	Accord	90
2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Z3, ""i-VTEC"" (2008-12)	Accord	91
2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Z6, ""i-VTEC"" (2010-11)	CR-V	92
2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Z7, ""i-VTEC"" (2012-15)	Civic, CR-V	93
2356cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24W1, ""i-VTEC"" (2013-17)	Accord	94
2356cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24W9, ""i-VTEC"" (2015-19)	CR-V	95
2559cc, (2.6L), SOHC, GAS, FI, 8 Valve, 4ZE1 ""Isuzu"" (1994-96)	Passport	96
6 Cylinder		
2675cc, (2.7L), SOHC, GAS, FI, 24 Valve, C27A4 (1995-97)	Accord	97
2997cc, (3.0L), SOHC, GAS, FI, 24 Valve, J30A1, ""i-VTEC"" (1998-02)	Accord	98
2997cc, (3.0L), SOHC, GAS, FI, 24 Valve, J30A4, ""i-VTEC"" (2003-05)	Accord	99
2997cc, (3.0L), SOHC, GAS, FI, 24 Valve, J30A5, ""i-VTEC"" (2006-07)	Accord	100
2997cc, (3.0L), SOHC, ELECTRIC/GAS, FI, 24 Valve, JNA1, ""i-VTEC Hybrid"" (2005-07)	Accord	101
3165cc, (3.2L), SOHC, GAS, FI, 24 Valve, 6VD1, ""Isuzu"" (1994-97)	Passport	102
3165cc, (3.2L), DOHC, GAS, FI, 24 Valve, 6VD1W, ""Isuzu"" (1998-02)	Passport	103
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A1, ""i-VTEC"" (1999-01)	Odyssey	104
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A4, ""i-VTEC"" (2002-04)	Odyssey, Pilot	105
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A6, ""i-VTEC"" (2005-10)	Odyssey, Pilot	106
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A7, ""i-VTEC"" (2005-10)	Odyssey	107
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A9, ""i-VTEC"" (2006-08)	Pilot, Ridgeline	108

HONDA / PASSENGER CAR OR TRUCK (Cont'd)

Engine	Models	Line No.
6 Cylinder		
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Y1, ""i-VTEC"" (2013-17)	Accord, Crosstour	109
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Y2, ""i-VTEC"" (2014-17)	Accord	110
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Y6, ""i-VTEC"" (2016-21)	Passport, Pilot, Ridgeline	111
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Y7, ""i-VTEC"" (2018-21)	Odyssey	112
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z1, ""i-VTEC"" (2006-08)	Pilot	113
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z2, ""i-VTEC"" (2008-13)	Accord, Accord Crosstour, Crosstour	114
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z3, ""i-VTEC"" (2008-12)	Accord	115
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z4, ""i-VTEC"" (2009-15)	Pilot	116
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z5, ""VTEC"" (2009-14)	Ridgeline	117
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z8, ""i-VTEC"" (2011-17)	Odyssey	118

1 995cc, (1.0L), SOHC, ELECTRIC/GAS, FI, 12 Valve, ECA1, ""VTEC-E Hybrid"" ECA1
 2000-06 L3 61 CID BORE - 72mm/2.83""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2000-06	121-1060	1 RD Bead Type
Stem Seal	Int	2000-06	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2000-06	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2000-06	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring

2 1237cc, (1.2L), GAS, CARB, 8 Valve, EB1 EB1
 1973-73 L4 76 CID BORE - 72mm/2.84""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1973-73	SB1375-52	1 ³ / ₈ O.D.,1.000T I.D.,0.4100 Depth

3 1237cc, (1.2L), SOHC, GAS, CARB, 8 Valve, EB2 EB2
 1974-77 L4 76 CID BORE - 72mm/2.84""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1974-77	SB1375-52	1 ³ / ₈ O.D.,1.000T I.D.,0.4100 Depth

4 1237cc, (1.2L), SOHC, GAS, CARB, 8 Valve, EB3 EB3
 1978-79 L4 76 CID BORE - 72mm/2.84""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1978-79	SB1562-51	1 ⁹ / ₁₆ O.D.,1.245T I.D.,0.3540 Depth
	Exh	1978-79	SB1437-53	1 ⁷ / ₁₆ O.D.,1.090T I.D.,0.3540 Depth

5 1335cc, (1.3L), SOHC, GAS, CARB, 8 Valve, EJ1 EJ1
 1980-83 L4 81 CID BORE - 72mm/2.84""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1980-83	SB1250-52	1 ¹ / ₄ O.D.,0.910T I.D.,0.2850 Depth
Valve	Int	1980-81	10078	1.378 Head Diameter,4.445 Overall Length
Stem Seal	Both	1980-83	122-1136	Positive Type,Viton Material, Ring & Spring Style
Guide	Int	1980-83	140-7830	0.2605 I.D.,1.970 Length,0.4755 O.D.

(Cont'd) HONDA / PASSENGER CAR OR TRUCK

1335cc, (1.3L), SOHC, GAS, CARB, 8 Valve, EJ1 **5**
 1980-83 L4 81 CID BORE - 72mm/2.84" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Exh 1980-83	140-7659	0.2610 I.D., 2.165 Length, 0.4755 O.D.

1339cc, (1.3L), SOHC, ELECTRIC/GAS, FI, 8 Valve, LDA1, "i-VTEC Hybrid" **LDA1 6**
 2003-05 L4 82 CID BORE - 73mm/2.87"

PART	YEARS	PART NO.	NOTES
Keeper	Both 2003-05	121-1060	1 RD Bead Type
Stem Seal	Int 2003-05	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh 2003-05	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int 2003-05	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring
	Exh 2003-05	140-8157	0.2173 I.D., 2.130 Length, 0.4358 O.D.

1339cc, (1.3L), SOHC, ELECTRIC/GAS, FI, 8 Valve, LDA2, "i-VTEC Hybrid" **LDA2 7**
 2006-11 L4 82 CID BORE - 73mm/2.87"

PART	YEARS	PART NO.	NOTES
Keeper	Both 2006-11	121-1060	1 RD Bead Type
Stem Seal	Int 2006-11	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh 2006-11	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int 2006-11	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring
	Exh 2006-11	140-8157	0.2173 I.D., 2.130 Length, 0.4358 O.D.

1339cc, (1.3L), SOHC, ELECTRIC/GAS, FI, 8 Valve, LDA3, "i-VTEC Hybrid" **LDA3 8**
 2010-14 L4 82 CID BORE - 73mm/2.87"

PART	YEARS	PART NO.	NOTES
Keeper	Both 2010-14	121-1060	1 RD Bead Type
Stem Seal	Int 2010-14	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh 2010-14	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int 2010-14	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring
	Exh 2010-14	140-8157	0.2173 I.D., 2.130 Length, 0.4358 O.D.

1342cc, (1.3L), SOHC, GAS, CARB, 16 Valve, EV1 **9**
 1984-86 L4 82 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Both 1984-86	SB1250-52	1¼ O.D., 0.910T I.D., 0.2850 Depth
Keeper	Both 1984-86	121-1054	1 RD Bead Type
Stem Seal	Both 1984-86	122-1136	Positive Type, Viton Material, Ring & Spring Style
Guide	Int 1984-86	140-7830	0.2605 I.D., 1.970 Length, 0.4755 O.D.
	Exh 1984-86	140-7659	0.2610 I.D., 2.165 Length, 0.4755 O.D.

1342cc, (1.3L), SOHC, GAS, CARB, 16 Valve, D13A2 **D13A2 10**
 1987-87 L4 82 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Both 1987-87	SB1250-52	1¼ O.D., 0.910T I.D., 0.2850 Depth
Keeper	Both 1987-87	121-1054	1 RD Bead Type
Stem Seal	Both 1987-87	122-1136	Positive Type, Viton Material, Ring & Spring Style
Guide	Int 1987-87	140-7830	0.2605 I.D., 1.970 Length, 0.4755 O.D.
	Exh 1987-87	140-7659	0.2610 I.D., 2.165 Length, 0.4755 O.D.

1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve, ED1 **ED1 11**
 1975-75 L4 91 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1975-75	SB1250-52	1¼ O.D., 0.910T I.D., 0.2850 Depth

HONDA / PASSENGER CAR OR TRUCK (Cont'd)

11 1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve, ED1 ED1
 (cont.) 1975-75 L4 91 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES	
Guide	Exh	1975-75	140-7659	0.2610 I.D.,2.165 Length,0.4755 O.D.
Spring	Exh	1975-75	160-1079	1.960 Length,Outer, W/ 1.345 O.D.

12 1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve, ED2 ED2
 1976-76 L4 91 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1976-76	SB1250-52	1¼ O.D.,0.910T I.D.,0.2850 Depth
Guide	Exh	1976-76	140-7659	0.2610 I.D.,2.165 Length,0.4755 O.D.

13 1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve, ED3 ED3
 1976-79 L4 91 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1976-79	SB1250-52	1¼ O.D.,0.910T I.D.,0.2850 Depth
Valve	Int	1976-79	10078	1.378 Head Diameter
Guide	Exh	1976-79	140-7659	0.2610 I.D.,2.165 Length,0.4755 O.D.

14 1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve, ED4 ED4
 1977-79 L4 91 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1977-79	SB1250-52	1¼ O.D.,0.910T I.D.,0.2850 Depth
Valve	Int	1977-79	10078	1.378 Head Diameter
Guide	Exh	1977-79	140-7659	0.2610 I.D.,2.165 Length,0.4755 O.D.

15 1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve, EM1 EM1
 1980-83 L4 91 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1980-83	SB1250-52	1¼ O.D.,0.910T I.D.,0.2850 Depth
Valve	Int	1980-81	10078	1.378 Head Diameter,4.445 Overall Length
Stem Seal	Both	1980-83	122-1136	Positive Type,Viton Material, Ring & Spring Style
Guide	Int	1980-83	140-7830	0.2605 I.D.,1.970 Length,0.4755 O.D.
	Exh	1980-83	140-7659	0.2610 I.D.,2.165 Length,0.4755 O.D.

16 1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve, EW1 EW1
 1984-86 L4 91 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1984-86	SB1125-54	1⅝ O.D.,0.900 I.D.,0.3250 Depth
	Exh	1984-86	SB1375-55	1⅝ O.D.,1.120 I.D.,0.3250 Depth
Keeper	Both	1984-86	121-1054	1 RD Bead Type
Stem Seal	Both	1984-86	122-1136	Positive Type,Viton Material, Ring & Spring Style
Guide	Int	1984-86	140-7830	0.2605 I.D.,1.970 Length,0.4755 O.D.
	Exh	1984-86	140-7659	0.2610 I.D.,2.165 Length,0.4755 O.D.

17 1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve, EW1, ""High Fuel"" EW1-HF
 1985-86 L4 91 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Both	1985-86	SB1250-52	1¼ O.D.,0.910T I.D.,0.2850 Depth
Keeper	Both	1985-86	121-1054	1 RD Bead Type
Stem Seal	Both	1985-86	122-1136	Positive Type,Viton Material, Ring & Spring Style
Guide	Int	1985-86	140-7830	0.2605 I.D.,1.970 Length,0.4755 O.D.
	Exh	1985-86	140-7659	0.2610 I.D.,2.165 Length,0.4755 O.D.

(Cont'd) **HONDA / PASSENGER CAR OR TRUCK**

1487cc, (1.5L), SOHC, GAS, FI, 12 Valve, EW3 EW3 **18**
1985-85 L4 91 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1985-85	SB1125-54	1 $\frac{1}{8}$ O.D.,0.900 I.D.,0.3250 Depth
	Exh	1985-85	SB1375-55	1 $\frac{3}{8}$ O.D.,1.120 I.D.,0.3250 Depth
Valve	Exh	1985-85	10413	1.299 Head Diameter
Keeper	Both	1985-85	121-1054	1 RD Bead Type
Stem Seal	Both	1985-85	122-1136	Positive Type,Viton Material,Ring & Spring Style
Guide	Int	1985-85	140-7830	0.2605 I.D.,1.970 Length,0.4755 O.D.
	Exh	1985-85	140-7659	0.2610 I.D.,2.165 Length,0.4755 O.D.

1487cc, (1.5L), SOHC, GAS, FI, 12 Valve, EW4 EW4 **19**
1986-86 L4 91 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1986-86	SB1125-54	1 $\frac{1}{8}$ O.D.,0.900 I.D.,0.3250 Depth
	Exh	1986-86	SB1375-55	1 $\frac{3}{8}$ O.D.,1.120 I.D.,0.3250 Depth
Valve	Exh	1986-86	10413	1.299 Head Diameter
Keeper	Both	1986-86	121-1054	1 RD Bead Type
Stem Seal	Both	1986-86	122-1136	Positive Type,Viton Material,Ring & Spring Style
Guide	Int	1986-86	140-7830	0.2605 I.D.,1.970 Length,0.4755 O.D.
	Exh	1986-86	140-7659	0.2610 I.D.,2.165 Length,0.4755 O.D.

1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve, D15A2 D15A2 **20**
1987-87 L4 91 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Both	1987-87	SB1250-52	1 $\frac{1}{4}$ O.D.,0.910T I.D.,0.2850 Depth
Keeper	Both	1987-87	121-1054	1 RD Bead Type
Stem Seal	Both	1987-87	122-1136	Positive Type,Viton Material,Ring & Spring Style
Guide	Int	1987-87	140-7830	0.2605 I.D.,1.970 Length,0.4755 O.D.
	Exh	1987-87	140-7659	0.2610 I.D.,2.165 Length,0.4755 O.D.

1487cc, (1.5L), SOHC, GAS, FI, 12 Valve, D15A3 D15A3 **21**
1987-87 L4 91 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1987-87	SB1125-54	1 $\frac{1}{8}$ O.D.,0.900 I.D.,0.3250 Depth
	Exh	1987-87	SB1375-55	1 $\frac{3}{8}$ O.D.,1.120 I.D.,0.3250 Depth
Valve	Exh	1987-87	10413	1.299 Head Diameter
Keeper	Both	1987-87	121-1054	1 RD Bead Type
Stem Seal	Both	1987-87	122-1136	Positive Type,Viton Material,Ring & Spring Style
Guide	Int	1987-87	140-7830	0.2605 I.D.,1.970 Length,0.4755 O.D.
	Exh	1987-87	140-7659	0.2610 I.D.,2.165 Length,0.4755 O.D.

1493cc, (1.5L), SOHC, GAS, FI, 16 Valve, D15B1 D15B1 **22**
1988-91 L4 91 CID BORE - 75mm/2.95"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-91	SB1187-52	1 $\frac{3}{16}$ O.D.,0.934T I.D.,0.2570 Depth
	Exh	1988-91	SB1062-50	1 $\frac{1}{16}$ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int	1988-91	10190	1.142 Head Diameter
	Exh	1988-91	10191	0.984 Head Diameter
Keeper	Both	1988-91	121-1060	1 RD Bead Type
Stem Seal	Int	1988-91	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	1988-91	122-1202	Positive Type,Viton Material,Metal Clad Style

HONDA / PASSENGER CAR OR TRUCK (Cont'd)

22 1493cc, (1.5L), SOHC, GAS, FI, 16 Valve, D15B1 D15B1
 (cont.) 1988-91 L4 91 CID BORE - 75mm/2.95"

PART	YEARS	PART NO.	NOTES	
Guide	Int	1988-91	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring
		1988-91	140-8397	0.2173 I.D., 1.640 Length, 0.4765 O.D.
		1988-91	340-1007BR	0.2161 I.D., 1.641 Length, 0.4755 O.D., Optional Bronze Version Of 140-8397
	Exh	1988-91	140-8157	0.2173 I.D., 2.130 Length, 0.4358 O.D.
		1988-91	140-8577	0.2175 I.D., 1.875 Length, 0.4763 O.D.
		1988-91	340-1008BR	0.2165 I.D., 1.870 Length, 0.4750 O.D., Optional Bronze Version Of 140-8577
Spring	Int	1988-91	160-1261	1.917 Length
	Exh	1988-91	160-1262	1.943 Length
Head Saver Shim	1988-91	230-2037	New Hgt. - 3.738 - 3.742; Min. Hgt. - 3.730	

23 1493cc, (1.5L), SOHC, GAS, FI, 16 Valve, D15B2 D15B2
 1988-91 L4 91 CID BORE - 75mm/2.95"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-91	SB1187-52	1 ³ / ₁₆ O.D., 0.934T I.D., 0.2570 Depth
	Exh	1988-91	SB1062-50	1 ¹ / ₁₆ O.D., 0.790 I.D., 0.2540 Depth
Valve	Int	1988-91	10190	1.142 Head Diameter
	Exh	1988-91	10191	0.984 Head Diameter
Keeper	Both	1988-91	121-1060	1 RD Bead Type
Stem Seal	Int	1988-91	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	1988-91	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1988-91	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring
		1988-91	140-8397	0.2173 I.D., 1.640 Length, 0.4765 O.D.
		1988-91	340-1007BR	0.2161 I.D., 1.641 Length, 0.4755 O.D., Optional Bronze Version Of 140-8397
	Exh	1988-91	140-8157	0.2173 I.D., 2.130 Length, 0.4358 O.D.
		1988-91	140-8577	0.2175 I.D., 1.875 Length, 0.4763 O.D.
		1988-91	340-1008BR	0.2165 I.D., 1.870 Length, 0.4750 O.D., Optional Bronze Version Of 140-8577
Spring	Int	1988-91	160-1261	1.917 Length
	Exh	1988-91	160-1262	1.943 Length
Head Saver Shim	1988-91	230-2037	New Hgt. - 3.738 - 3.742; Min. Hgt. - 3.730	

24 1493cc, (1.5L), SOHC, GAS, FI, 8 Valve, D15B6 D15B6
 1988-91 L4 91 CID BORE - 75mm/2.95"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-91	SB1187-52	1 ³ / ₁₆ O.D., 0.934T I.D., 0.2570 Depth
	Exh	1988-91	SB1062-50	1 ¹ / ₁₆ O.D., 0.790 I.D., 0.2540 Depth
Valve	Int	1988-91	10190	1.142 Head Diameter
	Exh	1988-91	10191	0.984 Head Diameter
Keeper	Both	1988-91	121-1060	1 RD Bead Type
Stem Seal	Int	1988-91	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	1988-91	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1988-91	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring
		1988-91	140-8397	0.2173 I.D., 1.640 Length, 0.4765 O.D.
		1988-91	340-1007BR	0.2161 I.D., 1.641 Length, 0.4755 O.D., Optional Bronze Version Of 140-8397
	Exh	1988-91	140-8157	0.2173 I.D., 2.130 Length, 0.4358 O.D.
		1988-91	140-8577	0.2175 I.D., 1.875 Length, 0.4763 O.D.
		1988-91	340-1008BR	0.2165 I.D., 1.870 Length, 0.4750 O.D., Optional Bronze Version Of 140-8577

(Cont'd) HONDA / PASSENGER CAR OR TRUCK**1493cc, (1.5L), SOHC, GAS, FI, 8 Valve, D15B6**
1988-91 L4 91 CID**D15B6 24**
BORE - 75mm/2.95"" (cont.)

PART		YEARS	PART NO.	NOTES
Spring	Int	1988-91	160-1261	1.917 Length
	Exh	1988-91	160-1262	1.943 Length
Head Saver Shim		1988-91	230-2037	New Hgt. - 3.738 - 3.742; Min. Hgt. - 3.730

1493cc, (1.5L), SOHC, GAS, FI, 16 Valve, D15B7
1992-95 L4 91 CID**D15B7 25**
BORE - 75mm/2.95""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1992-95	SB1187-52	1 $\frac{3}{16}$ O.D.,0.934T I.D.,0.2570 Depth
	Exh	1992-95	SB1062-50	1 $\frac{1}{16}$ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int	1992-95	10190	1.142 Head Diameter
	Exh	1992-95	10191	0.984 Head Diameter
Keeper	Both	1992-95	121-1060	1 RD Bead Type
Stem Seal	Int	1992-95	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	1992-95	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1992-95	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	1992-95	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
Spring	Int	1992-95	160-1236	2.020 Length
Head Saver Shim		1992-95	230-2037	New Hgt. - 3.738 - 3.742; Min. Hgt. - 3.730

1493cc, (1.5L), SOHC, GAS, FI, 8 Valve, D15B8
1992-95 L4 92 CID**D15B8 26**
BORE - 75mm/2.95""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1992-95	SB1187-52	1 $\frac{3}{16}$ O.D.,0.934T I.D.,0.2570 Depth
	Exh	1992-95	SB1062-50	1 $\frac{1}{16}$ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int	1992-95	10190	1.142 Head Diameter
	Exh	1992-95	10191	0.984 Head Diameter
Keeper	Both	1992-95	121-1060	1 RD Bead Type
Stem Seal	Int	1992-95	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	1992-95	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1992-95	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	1992-95	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
Spring	Int	1992-95	160-1236	2.020 Length
Head Saver Shim		1992-95	230-2037	New Hgt. - 3.738 - 3.742; Min. Hgt. - 3.730

1493cc, (1.5L), SOHC, GAS, FI, 16 Valve, D15Z1, ""VTEC-E""
1992-95 L4 92 CID**D15Z1 27**
BORE - 75mm/2.95""

PART		YEARS	PART NO.	NOTES
Keeper	Both	1992-95	121-1060	1 RD Bead Type
Stem Seal	Int	1992-95	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	1992-95	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1992-95	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring

1497cc, (1.5L), SOHC, GAS, FI, 16 Valve, L15A1, ""i-VTEC""
2007-08 L4 92 CID**L15A1 28**
BORE - 73mm/2.87""

PART		YEARS	PART NO.	NOTES
Keeper	Both	2007-08	121-1060	1 RD Bead Type
Stem Seal	Int	2007-08	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2007-08	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2007-08	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring

HONDA / PASSENGER CAR OR TRUCK (Cont'd)

28 1497cc, (1.5L), SOHC, GAS, FI, 16 Valve, L15A1, ""i-VTEC"" L15A1
 (cont.) 2007-08 L4 92 CID BORE - 73mm/2.87""

PART	YEARS	PART NO.	NOTES
Guide	Exh	2007-08 140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

29 1497cc, (1.5L), SOHC, GAS, FI, 16 Valve, L15A7, ""i-VTEC"" L15A7
 2009-14 L4 91 CID BORE - 73mm/2.87""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2009-14 121-1060	1 RD Bead Type
Stem Seal	Int	2009-14 122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2009-14 122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2009-14 140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2009-14 140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

30 1497cc, (1.5L), DOHC, GAS, FI, 16 Valve, L15B1, ""i-VTEC"" L15B1
 2015-20 L4 91 CID BORE - 73mm/2.87""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2015-20 121-1060	1 RD Bead Type
Stem Seal	Int	2015-20 122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2015-20 122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2015-20 140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring

31 1497cc, (1.5L), DOHC, GAS, FI, 16 Valve, L15B7, ""i-VTEC TURBO"" L15B7
 2016-20 L4 91 CID BORE - 73mm/2.87""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2016-20 121-1060	1 RD Bead Type
Stem Seal	Int	2016-20 122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2016-20 122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2016-20 140-3136	0.2173 I.D.,1.630 Length,0.4370 O.D.

32 1497cc, (1.5L), DOHC, GAS, FI, 16 Valve, L15BA, ""i-VTEC TURBO"" L15BA
 2017-20 L4 91 CID BORE - 73mm/2.87""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2017-20 121-1060	1 RD Bead Type
Stem Seal	Int	2017-20 122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2017-20 122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2017-20 140-3136	0.2173 I.D.,1.630 Length,0.4370 O.D.

33 1497cc, (1.5L), DOHC, GAS, FI, 16 Valve, L15BE, ""i-VTEC TURBO"" L15BE
 2017-20 L4 91 CID BORE - 73mm/2.87""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2017-20 121-1060	1 RD Bead Type
Stem Seal	Int	2017-20 122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2017-20 122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2017-20 140-3136	0.2173 I.D.,1.630 Length,0.4370 O.D.

34 1497cc, (1.5L), SOHC, ELECTRIC/GAS, FI, 16 Valve, LEA1, ""i-VTEC Hybrid"" LEA1
 2011-16 L4 91 CID BORE - 73mm/2.87""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2011-16 121-1060	1 RD Bead Type
Stem Seal	Int	2011-16 122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2011-16 122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2011-16 140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2011-16 140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

(Cont'd) HONDA / PASSENGER CAR OR TRUCK

1497cc, (1.5L), SOHC, ELECTRIC/GAS, FI, 8 Valve, LEA2, ""i-VTEC Hybrid"" LEA2 35
 2012-15 L4 91 CID BORE - 73mm/2.87""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2012-15 121-1060	1 RD Bead Type
Stem Seal	Int	2012-15 122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2012-15 122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2012-15 140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2012-15 140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

1497cc, (1.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, LEB3, ""i-VTEC Hybrid"" LEB3 36
 2018-20 L4 91 CID BORE - 73mm/2.87""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2018-20 121-1060	1 RD Bead Type
Stem Seal	Int	2018-20 122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2018-20 122-1202	Positive Type,Viton Material,Metal Clad Style

1497cc, (1.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, LEB6, ""i-VTEC Hybrid"" LEB6 37
 2019-21 L4 91 CID BORE - 73mm/2.87""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2019-20 121-1060	1 RD Bead Type
Stem Seal	Int	2019-20 122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2019-20 122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2019-20 140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring

1590cc, (1.6L), SOHC, GAS, FI, 16 Valve, D16A6 D16A6 38
 1988-91 L4 97 CID BORE - 75mm/2.95""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1988-91 SB1187-52	1 ³ / ₁₆ O.D.,0.934T I.D.,0.2570 Depth
	Exh	1988-91 SB1062-50	1 ¹ / ₁₆ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int	1988-91 10190	1.142 Head Diameter
	Exh	1988-91 10191	0.984 Head Diameter
Keeper	Both	1988-91 121-1060	1 RD Bead Type
Stem Seal	Int	1988-91 122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	1988-91 122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1988-91 140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	1988-91 140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
Spring	Int	1988-91 160-1261	1.917 Length
	Exh	1988-91 160-1262	1.943 Length
Head Saver Shim		1988-91 230-2037	New Hgt. - 3.738 - 3.742; Min. Hgt. - 3.730

1590cc, (1.6L), SOHC, GAS, FI, 16 Valve, D16Y5, ""VTEC-E"" D16Y5 39
 1996-00 L4 97 CID BORE - 75.2mm/2.96""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1996-00 SB1250-62	1/4 O.D.,1.000 I.D.,0.3050 Depth
	Exh	1996-00 SB1062-51	1 ¹ / ₁₆ O.D.,0.870 I.D.,0.1950 Depth
Valve	Int	1996-00 10524	1.181 Head Diameter
	Exh	1996-00 10525	1.023 Head Diameter,Recommended OEM Nickel Base Inconel Material
		1996-00 20525	1.023 Head Diameter,Alternative Austenitic Material
Keeper	Both	1996-00 121-1060	1 RD Bead Type
Stem Seal	Int	1996-00 122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	1996-00 122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1996-00 140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring

HONDA / PASSENGER CAR OR TRUCK (Cont'd)

39 1590cc, (1.6L), SOHC, GAS, FI, 16 Valve, D16Y5, ""VTEC-E"" D16Y5
 (cont.) 1996-00 L4 97 CID BORE - 75.2mm/2.96""

PART	YEARS	PART NO.	NOTES	
Guide	Exh	1996-00	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
Head Saver Shim		1996-00	230-2188	New Hgt. - 3.659 - 3.663; Min. Hgt. - 3.651

40 1590cc, (1.6L), SOHC, GAS, FI, 16 Valve, D16Y7 D16Y7
 1996-00 L4 97 CID BORE - 75mm/2.95""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1996-00	SB1250-62	1¼ O.D.,1.000 I.D.,0.3050 Depth
	Exh	1996-00	SB1062-51	1⅙ O.D.,0.870 I.D.,0.1950 Depth
Valve	Int	1996-00	10524	1.181 Head Diameter
	Exh	1996-00	10525	1.023 Head Diameter,Recommended OEM Nickel Base Inconel Material
		1996-00	20525	1.023 Head Diameter,Alternative Austenitic Material
Keeper	Both	1996-00	121-1060	1 RD Bead Type
Stem Seal	Int	1996-00	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	1996-00	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1996-00	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	1996-00	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
Head Saver Shim		1996-00	230-2188	New Hgt. - 3.659 - 3.663; Min. Hgt. - 3.651

41 1590cc, (1.6L), SOHC, GAS, FI, 16 Valve, D16Y8, ""VTEC"" D16Y8
 1996-00 L4 97 CID BORE - 75mm/2.95""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1996-00	SB1250-62	1¼ O.D.,1.000 I.D.,0.3050 Depth
	Exh	1996-00	SB1062-51	1⅙ O.D.,0.870 I.D.,0.1950 Depth
Valve	Int	1996-00	10524	1.181 Head Diameter
	Exh	1996-00	10525	1.023 Head Diameter,Recommended OEM Nickel Base Inconel Material
		1996-00	20525	1.023 Head Diameter,Alternative Austenitic Material
Keeper	Both	1996-00	121-1060	1 RD Bead Type
Stem Seal	Int	1996-00	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	1996-00	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1996-00	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	1996-00	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
Head Saver Shim		1996-00	230-2188	New Hgt. - 3.659 - 3.663; Min. Hgt. - 3.651

42 1590cc, (1.6L), SOHC, GAS, FI, 16 Valve, D16Z6, ""VTEC"" D16Z6
 1992-95 L4 97 CID BORE - 75mm/2.95""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1992-95	SB1250-62	1¼ O.D.,1.000 I.D.,0.3050 Depth
	Exh	1992-95	SB1062-51	1⅙ O.D.,0.870 I.D.,0.1950 Depth
Valve	Int	1992-95	10524	1.181 Head Diameter
	Exh	1992-95	10525	1.023 Head Diameter,Recommended OEM Nickel Base Inconel Material
		1992-95	20525	1.023 Head Diameter,Alternative Austenitic Material
Keeper	Both	1992-95	121-1060	1 RD Bead Type
Stem Seal	Int	1992-95	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	1992-95	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1992-95	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
Spring	Int	1992-95	160-1238	2.277 Length
Head Saver Shim		1992-95	230-2188	New Hgt. - 3.659 - 3.663; Min. Hgt. - 3.651

(Cont'd) HONDA / PASSENGER CAR OR TRUCK**1595cc, (1.6L), DOHC, GAS, FI, 16 Valve, B16A2, ""VTEC""**
1996-00 L4 97 CID**B16A2 43**
BORE - 75mm/2.95""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1996-00	SB1375-56	1 $\frac{3}{8}$ O.D., 1.102 I.D., 0.2600 Depth
	Exh	1996-00	SB1250-58	1 $\frac{1}{4}$ O.D., 0.955 I.D., 0.2550 Depth
Valve	Int	1996-00	10434	1.299 Head Diameter
	Exh	1996-00	10435	1.103 Head Diameter
Keeper	Both	1996-00	121-1060	1 RD Bead Type
Stem Seal	Int	1996-00	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	1996-00	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1996-00	140-8397	0.2173 I.D., 1.640 Length, 0.4765 O.D.
		1996-00	340-1007BR	0.2161 I.D., 1.641 Length, 0.4755 O.D., Optional Bronze Guide
	Exh	1996-00	140-8577	0.2175 I.D., 1.875 Length, 0.4763 O.D.
		1996-00	340-1008BR	0.2165 I.D., 1.870 Length, 0.4750 O.D., Optional Bronze Guide
Head Saver Shim		1996-00	230-2123	New Hgt. 5.589 - 5.593; Min. Hgt. 5.581

1595cc, (1.6L), DOHC, GAS, FI, 16 Valve, B16A3, ""VTEC""
1994-95 L4 97 CID**B16A3 44**
BORE - 75mm/2.95""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1994-95	SB1375-56	1 $\frac{3}{8}$ O.D., 1.102 I.D., 0.2600 Depth
	Exh	1994-95	SB1250-58	1 $\frac{1}{4}$ O.D., 0.955 I.D., 0.2550 Depth
Valve	Int	1994-95	10434	1.299 Head Diameter
	Exh	1994-95	10435	1.103 Head Diameter
Keeper	Both	1994-95	121-1060	1 RD Bead Type
Stem Seal	Int	1994-95	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	1994-95	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1994-95	140-8397	0.2173 I.D., 1.640 Length, 0.4765 O.D.
		1994-95	340-1007BR	0.2161 I.D., 1.641 Length, 0.4755 O.D., Optional Bronze Guide
	Exh	1994-95	140-8577	0.2175 I.D., 1.875 Length, 0.4763 O.D.
		1994-95	340-1008BR	0.2165 I.D., 1.870 Length, 0.4750 O.D., Optional Bronze Guide
Head Saver Shim		1994-95	230-2123	New Hgt. 5.589 - 5.593; Min. Hgt. 5.581

1599cc, (1.6L), SOHC, GAS, CARB, 12 Valve, EF1
1976-78 L4 98 CID**EF1 45**
BORE - 75mm/2.95""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1976-78	SB1250-52	1 $\frac{1}{4}$ O.D., 0.910T I.D., 0.2850 Depth
Valve	Int	1976-78	10078	1.378 Head Diameter
Guide	Exh	1976-78	140-7659	0.2610 I.D., 2.165 Length, 0.4755 O.D.

1668CC, (1.7L), SOHC, GAS, FI, 16 Valve, D17A1, ""VTEC""
2001-05 L4 102 CID**D17A1 46**
BORE - 75mm/2.95""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2001-05	SB1250-62	1 $\frac{1}{4}$ O.D., 1.000 I.D., 0.3050 Depth
	Exh	2001-05	SB1062-50	1 $\frac{1}{16}$ O.D., 0.790 I.D., 0.2540 Depth
Valve	Int	2001-05	10524	1.181 Head Diameter
		2001-05	10525	1.023 Head Diameter, Recommended OEM Nickel Base Inconel Material
	Exh	2001-05	20525	1.023 Head Diameter, Alternative Austenitic Material
Keeper	Both	2001-05	121-1060	1 RD Bead Type
Stem Seal	Int	2001-05	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	2001-05	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2001-05	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring

HONDA / PASSENGER CAR OR TRUCK (Cont'd)

46 1668CC, (1.7L), SOHC, GAS, FI, 16 Valve, D17A1, ""VTEC"" D17A1
 (cont.) 2001-05 L4 102 CID BORE - 75mm/2.95""

PART	YEARS	PART NO.	NOTES
Head Saver Shim	2001-05	230-2189	New Hgt. - 3.659 - 3.663; Min. Hgt. - N/A

47 1668cc, (1.7L), SOHC, GAS, FI, 16 Valve, D17A2, ""VTEC-E"" D17A2
 2001-05 L4 102 CID BORE - 75mm/2.95""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	2001-05 2001-05	SB1250-62 SB1062-50	1¼ O.D.,1.000 I.D.,0.3050 Depth 1⅙ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int Exh	2001-05 2001-05 2001-05	10524 10525 20525	1.181 Head Diameter 1.023 Head Diameter,Recommended OEM Nickel Base Inconel Material 1.023 Head Diameter,Alternative Austenitic Material
Keeper	Both	2001-05	121-1060	1 RD Bead Type
Stem Seal	Int Exh	2001-05 2001-05	122-1201 122-1202	Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style
Guide	Both	2001-05	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
Head Saver Shim		2001-05	230-2189	New Hgt. - 3.659 - 3.663; Min. Hgt. - N/A

48 1668cc, (1.7L), SOHC, GAS, FI, 16 Valve, D17A6, ""VTEC-E"" D17A6
 2001-05 L4 102 CID BORE - 75mm/2.95""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	2001-05 2001-05	SB1250-62 SB1062-50	1¼ O.D.,1.000 I.D.,0.3050 Depth 1⅙ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int Exh	2001-05 2001-05 2001-05	10524 10525 20525	1.181 Head Diameter 1.023 Head Diameter,Recommended OEM Nickel Base Inconel Material 1.023 Head Diameter,Alternative Austenitic Material
Keeper	Both	2001-05	121-1060	1 RD Bead Type
Stem Seal	Int Exh	2001-05 2001-05	122-1201 122-1202	Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style
Guide	Both	2001-05	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
Head Saver Shim		2001-05	230-2189	New Hgt. - 3.659 - 3.663; Min. Hgt. - N/A

49 1668cc, (1.7L), SOHC, CNG, FI, 16 Valve, D17A7 D17A7
 2001-05 L4 102 CID BORE - 75mm/2.95""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	2001-05 2001-05	SB1250-62 SB1062-50	1¼ O.D.,1.000 I.D.,0.3050 Depth 1⅙ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int Exh	2001-05 2001-05 2001-05	10524 10525 20525	1.181 Head Diameter 1.023 Head Diameter,Recommended OEM Nickel Base Inconel Material 1.023 Head Diameter,Alternative Austenitic Material
Keeper	Both	2001-05	121-1060	1 RD Bead Type
Stem Seal	Int Exh	2001-05 2001-05	122-1201 122-1202	Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style
Guide	Both	2001-05	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
Head Saver Shim		2001-05	230-2189	New Hgt. - 3.659 - 3.663; Min. Hgt. - N/A

(Cont'd) **HONDA / PASSENGER CAR OR TRUCK**

1799cc, (1.8L), SOHC, GAS, FI, 16 Valve, R18A1, ""i-VTEC"" **R18A1 50**
2006-11 L4 110 CID BORE - 81mm/3.19""

PART	YEARS	PART NO.	NOTES
Valve	Exh 2006-11	10525	1.023 Head Diameter,Recommended OEM Nickel Base Inconel Material
Keeper	Both 2006-11	121-1060	1 RD Bead Type
Stem Seal	Int 2006-11 Exh 2006-11	122-1201 122-1202	Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style
Guide	Int 2006-11 Exh 2006-11	140-8158 140-8157	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring 0.2173 I.D.,2.130 Length,0.4358 O.D.

1799cc, (1.8L), SOHC, CNG, FI, 16 Valve, R18A4, ""i-VTEC"" **R18A4 51**
2006-11 L4 110 CID BORE - 81mm/3.19""

PART	YEARS	PART NO.	NOTES
Keeper	Both 2006-11	121-1060	1 RD Bead Type
Stem Seal	Int 2006-11 Exh 2006-11	122-1201 122-1202	Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style
Guide	Exh 2006-11	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

1799cc, (1.8L), SOHC, CNG, FI, 16 Valve, R18A9, ""i-VTEC"" **R18A9 52**
2012-15 L4 110 CID BORE - 81mm/3.19""

PART	YEARS	PART NO.	NOTES
Keeper	Both 2012-15	121-1060	1 RD Bead Type
Stem Seal	Int 2012-15 Exh 2012-15	122-1201 122-1202	Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style
Guide	Int 2012-15 Exh 2012-15	140-8158 140-8157	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring 0.2173 I.D.,2.130 Length,0.4358 O.D.

1799cc, (1.8L), SOHC, GAS, FI, 16 Valve, R18Z1, ""i-VTEC"" **R18Z1 53**
2012-15 L4 110 CID BORE - 81mm/3.19""

PART	YEARS	PART NO.	NOTES
Valve	Exh 2012-15	10525	1.023 Head Diameter,Recommended OEM Nickel Base Inconel Material
Keeper	Both 2012-15	121-1060	1 RD Bead Type
Stem Seal	Int 2012-15 Exh 2012-15	122-1201 122-1202	Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style
Guide	Int 2012-15 Exh 2012-15	140-8158 140-8157	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring 0.2173 I.D.,2.130 Length,0.4358 O.D.

1799cc, (1.8L), SOHC, GAS, FI, 16 Valve, R18Z9, ""i-VTEC"" **R18Z9 54**
2016-20 L4 110 CID BORE - 81mm/3.19""

PART	YEARS	PART NO.	NOTES
Valve	Exh 2016-20	10525	1.023 Head Diameter,Recommended OEM Nickel Base Inconel Material
Keeper	Both 2016-20	121-1060	1 RD Bead Type
Stem Seal	Int 2016-20 Exh 2016-20	122-1201 122-1202	Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style
Guide	Int 2016-20 Exh 2016-20	140-8158 140-8157	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring 0.2173 I.D.,2.130 Length,0.4358 O.D.

1829cc, (1.8L), SOHC, GAS, CARB, 12 Valve, A18A1 **A18A1 55**
1987-87 L4 112 CID BORE - 80.7mm/3.18""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1987-87	SB1312-56	1 ⁵ / ₁₆ O.D.,1.086 I.D.,0.3050 Depth

HONDA / PASSENGER CAR OR TRUCK (Cont'd)

55 1829cc, (1.8L), SOHC, GAS, CARB, 12 Valve, A18A1 A18A1
 (cont.) 1987-87 L4 112 CID BORE - 80.7mm/3.18"

PART		YEARS	PART NO.	NOTES
Valve	Int	1987-87	10192	1.180 Head Diameter
	Exh	1987-87	10193	1.376 Head Diameter
Keeper	Int	1987-87	121-1054	1 RD Bead Type
Stem Seal	Both	1987-87	122-1136	Positive Type,Viton Material, Ring & Spring Style
Guide	Int	1987-87	140-7830	0.2605 I.D., 1.970 Length, 0.4755 O.D.
	Exh	1987-87	140-7710	0.2765 I.D., 2.168 Length, 0.4755 O.D.

56 1829cc, (1.8L), SOHC, GAS, CARB, 8 Valve, ES1 ES1
 1983-83 L4 112 CID BORE - 80.7mm/3.18"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1983-83	SB1312-56	1 ⁵ / ₁₆ O.D., 1.086 I.D., 0.3050 Depth
Valve	Int	1983-83	10192	1.180 Head Diameter
	Exh	1983-83	10193	1.376 Head Diameter
Keeper	Int	1983-83	121-1054	1 RD Bead Type
Stem Seal	Both	1983-83	122-1136	Positive Type,Viton Material, Ring & Spring Style
Guide	Int	1983-83	140-7830	0.2605 I.D., 1.970 Length, 0.4755 O.D.
	Exh	1983-83	140-7710	0.2765 I.D., 2.168 Length, 0.4755 O.D.
Head Saver Shim		1983-83	230-2038	New Hgt. 3.565 - 3.575; Min. Hgt. - 3.550

57 1829cc, (1.8L), SOHC, GAS, CARB, 12 Valve, ES2 ES2
 1984-85 L4 112 CID BORE - 80mm/3.15"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1984-85	SB1312-56	1 ⁵ / ₁₆ O.D., 1.086 I.D., 0.3050 Depth
Valve	Int	1984-85	10192	1.180 Head Diameter
	Exh	1984-85	10193	1.376 Head Diameter
Keeper	Int	1984-85	121-1054	1 RD Bead Type
Guide	Int	1984-85	140-7830	0.2605 I.D., 1.970 Length, 0.4755 O.D.
	Exh	1984-85	140-7710	0.2765 I.D., 2.168 Length, 0.4755 O.D.
Head Saver Shim		1984-85	230-2038	New Hgt. 3.565 - 3.575; Min. Hgt. - 3.550

58 1829cc, (1.8L), SOHC, GAS, CARB, 12 Valve, ES3 ES3
 1984-85 L4 112 CID BORE - 80mm/3.15"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1984-85	SB1312-56	1 ⁵ / ₁₆ O.D., 1.086 I.D., 0.3050 Depth
Valve	Int	1984-85	10192	1.180 Head Diameter
	Exh	1984-85	10193	1.376 Head Diameter
Keeper	Int	1984-85	121-1054	1 RD Bead Type
Guide	Int	1984-85	140-7830	0.2605 I.D., 1.970 Length, 0.4755 O.D.
	Exh	1984-85	140-7710	0.2765 I.D., 2.168 Length, 0.4755 O.D.
Head Saver Shim		1984-85	230-2038	New Hgt. 3.565 - 3.575; Min. Hgt. - 3.550

59 1829cc, (1.8L), SOHC, GAS, CARB, 12 Valve, ET2 ET2
 1984-86 L4 112 CID BORE - 80.7mm/3.18"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1984-86	SB1312-56	1 ⁵ / ₁₆ O.D., 1.086 I.D., 0.3050 Depth
Valve	Int	1984-86	10192	1.180 Head Diameter
	Exh	1984-86	10193	1.376 Head Diameter
Keeper	Int	1984-86	121-1054	1 RD Bead Type

(Cont'd) HONDA / PASSENGER CAR OR TRUCK**1829cc, (1.8L), SOHC, GAS, CARB, 12 Valve, ET2**
1984-86 L4 112 CID**ET2 59****BORE - 80.7mm/3.181"** (cont.)

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1984-86	122-1136	Positive Type, Viton Material, Ring & Spring Style
Guide	Int	1984-86	140-7830	0.2605 I.D., 1.970 Length, 0.4755 O.D.
	Exh	1984-86	140-7710	0.2765 I.D., 2.168 Length, 0.4755 O.D.
Head Saver Shim		1984-85	230-2038	New Hgt. 3.565 - 3.575; Min. Hgt. - 3.550

1955cc, (2.0L), SOHC, GAS, CARB, FI, 12 Valve, BS
1986-86 L4 119 CID**BS 60****BORE - 86.5mm/3.411"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1986-86	SB1312-56	1 $\frac{5}{16}$ O.D., 1.086 I.D., 0.3050 Depth
Valve	Int	1986-86	10192	1.180 Head Diameter
	Exh	1986-86	10193	1.376 Head Diameter
Keeper	Int	1986-86	121-1054	1 RD Bead Type
Stem Seal	Both	1986-86	122-1136	Positive Type, Viton Material, Ring & Spring Style
Guide	Int	1986-86	140-7830	0.2605 I.D., 1.970 Length, 0.4755 O.D.
	Exh	1986-86	140-7710	0.2765 I.D., 2.168 Length, 0.4755 O.D.
Head Saver Shim		1986-86	230-2039	New Hgt. - 3.543 - Min. Hgt. - 3.535

1955cc, (2.0L), SOHC, GAS, FI, 12 Valve, BT
1986-86 L4 119 CID**BT 61****BORE - 86.5mm/3.411"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1986-86	SB1312-56	1 $\frac{5}{16}$ O.D., 1.086 I.D., 0.3050 Depth
Valve	Int	1986-86	10192	1.180 Head Diameter
	Exh	1986-86	10193	1.376 Head Diameter
Keeper	Int	1986-86	121-1054	1 RD Bead Type
Stem Seal	Both	1986-86	122-1136	Positive Type, Viton Material, Ring & Spring Style
Guide	Int	1986-86	140-7830	0.2605 I.D., 1.970 Length, 0.4755 O.D.
	Exh	1986-86	140-7710	0.2765 I.D., 2.168 Length, 0.4755 O.D.
Head Saver Shim		1986-86	230-2039	New Hgt. - 3.543 - Min. Hgt. - 3.535

1955cc, (2.0L), SOHC, GAS, CARB, 12 Valve, A20A1
1987-89 L4 119 CID**A20A1 62****BORE - 86.5mm/3.411"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1987-89	SB1312-56	1 $\frac{5}{16}$ O.D., 1.086 I.D., 0.3050 Depth
Valve	Int	1987-89	10192	1.180 Head Diameter
	Exh	1987-89	10193	1.376 Head Diameter
Keeper	Int	1987-89	121-1054	1 RD Bead Type
Stem Seal	Both	1987-89	122-1136	Positive Type, Viton Material, Ring & Spring Style, For 1987 Fits Intake Only, For 1988-89 Fits Both
Guide	Int	1987-89	140-7830	0.2605 I.D., 1.970 Length, 0.4755 O.D.
	Exh	1987-89	140-7710	0.2765 I.D., 2.168 Length, 0.4755 O.D.
Head Saver Shim		1987-89	230-2039	New Hgt. - 3.543 - Min. Hgt. - 3.535

1955cc, (2.0L), SOHC, GAS, FI, 12 Valve, A20A3
1987-89 L4 119 CID**A20A3 63****BORE - 86.5mm/3.411"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1987-89	SB1312-56	1 $\frac{5}{16}$ O.D., 1.086 I.D., 0.3050 Depth
Valve	Int	1987-89	10192	1.180 Head Diameter
	Exh	1987-89	10193	1.376 Head Diameter
Keeper	Int	1987-89	121-1054	1 RD Bead Type

HONDA / PASSENGER CAR OR TRUCK (Cont'd)

63 1955cc, (2.0L), SOHC, GAS, FI, 12 Valve, A20A3 A20A3
 (cont.) 1987-89 L4 119 CID BORE - 86.5mm/3.41"

PART	YEARS	PART NO.	NOTES
Stem Seal	Both	1987-89 122-1136	Positive Type,Viton Material, Ring & Spring Style
Guide	Int	1987-89 140-7830	0.2605 I.D., 1.970 Length, 0.4755 O.D.
	Exh	1987-89 140-7710	0.2765 I.D., 2.168 Length, 0.4755 O.D.
Head Saver Shim	1987-89	230-2039	New Hgt. - 3.543 - Min. Hgt. - 3.535

64 1958cc, (2.0L), SOHC, GAS, CARB, 12 Valve, B20A3 B20A3
 1988-90 L4 120 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1988-90 SB1312-56	1 ⁵ / ₁₆ O.D., 1.086 I.D., 0.3050 Depth
Valve	Int	1988-90 10192	1.180 Head Diameter
	Exh	1988-90 10193	1.376 Head Diameter
Keeper	Int	1988-90 121-1054	1 RD Bead Type
Stem Seal	Both	1988-90 122-1136	Positive Type,Viton Material, Ring & Spring Style
Guide	Int	1988-90 140-7830	0.2605 I.D., 1.970 Length, 0.4755 O.D.
	Exh	1988-90 140-7710	0.2765 I.D., 2.168 Length, 0.4755 O.D.

65 1958cc, (2.0L), DOHC, GAS, FI, 16 Valve, B20A5 B20A5
 1988-91 L4 119 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1988-91 SB1375-55	1 ³ / ₈ O.D., 1.120 I.D., 0.3250 Depth
	Exh	1988-91 SB1250-63	1 ¹ / ₄ O.D., 0.930 I.D., 0.3250 Depth
Valve	Int	1988-91 10195	1.299 Head Diameter
	Exh	1988-91 10196	1.102 Head Diameter
Keeper	Both	1988-91 121-1054	1 RD Bead Type
Stem Seal	Both	1988-91 122-1136	Positive Type,Viton Material, Ring & Spring Style
Guide	Int	1988-91 140-8156	0.2605 I.D., 1.770 Length, 0.4765 O.D.
	Exh	1988-91 140-8155	0.2605 I.D., 1.975 Length, 0.4765 O.D.

66 1972cc, (2.0L), DOHC, GAS, FI, 16 Valve, B20B4 B20B4
 1997-98 L4 121 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES
Valve	Int	1997-98 10742	1.224 Head Diameter
	Exh	1997-98 10196	1.102 Head Diameter
Keeper	Both	1997-98 121-1054	1 RD Bead Type
Stem Seal	Both	1997-98 122-1152	Positive Type,Viton Material, Metal Clad Style
Guide	Int	1997-98 140-8156	0.2605 I.D., 1.770 Length, 0.4765 O.D.
	Exh	1997-98 140-8155	0.2605 I.D., 1.975 Length, 0.4765 O.D.

67 1972cc, (2.0L), DOHC, GAS, FI, 16 Valve, B20Z2, ""VTEC"" B20Z2
 1999-01 L4 121 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1999-01 SB1250-59	1 ¹ / ₄ O.D., 0.982 I.D., 0.3290 Depth, Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	1999-01 10742	1.224 Head Diameter
	Exh	1999-01 10196	1.102 Head Diameter
Keeper	Both	1999-01 121-1054	1 RD Bead Type
Stem Seal	Both	1999-01 122-1152	Positive Type,Viton Material, Metal Clad Style
Guide	Int	1999-01 140-8156	0.2605 I.D., 1.770 Length, 0.4765 O.D.
	Exh	1999-01 140-8155	0.2605 I.D., 1.975 Length, 0.4765 O.D.

(Cont'd) HONDA / PASSENGER CAR OR TRUCK

1993cc, (2.0L), DOHC, ELECTRIC/GAS, FI, 16 Valve, LFA1, ""Hybrid"" LFA1 **68**
 2014-18 L4 122 CID BORE - 81mm/3.189""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2014-18	121-1060	1 RD Bead Type
Stem Seal	Int	2014-18	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2014-18	122-1202	Positive Type,Viton Material,Metal Clad Style

1993cc, (2.0L), DOHC, ELECTRIC/GAS, FI, 16 Valve, LFB2, ""Hybrid"" LFB2 **69**
 2018-20 L4 122 CID BORE - 81mm/3.189""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2018-20	121-1060	1 RD Bead Type
Stem Seal	Int	2018-20	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2018-20	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2018-20	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring

1996cc, (2.0L), DOHC, GAS, FI, 16 Valve, K20C1, ""i-VTEC TURBO"" K20C1 **70**
 2017-20 L4 122 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2017-20	121-1060	1 RD Bead Type
Stem Seal	Int	2017-20	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2017-20	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2017-20	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring

1996cc, (2.0L), DOHC, GAS, FI, 16 Valve, K20C2, ""i-VTEC"" K20C2 **71**
 2016-20 L4 122 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2016-20	121-1060	1 RD Bead Type
Stem Seal	Int	2016-20	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2016-20	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2016-20	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring

1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, F20C1, ""VTEC"" F20C1 **72**
 2000-03 L4 122 CID BORE - 87mm/3.42""

PART	YEARS	PART NO.	NOTES	
Stem Seal	Int	2000-03	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2000-03	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2000-03	140-3136	0.2173 I.D.,1.630 Length,0.4370 O.D.

1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, K20A3, ""i-VTEC"" K20A3 **73**
 2002-05 L4 122 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2002-05	13172	1.378 Head Diameter
	Exh	2002-05	13173	1.181 Head Diameter,Inconel
Keeper	Both	2002-05	121-1060	1 RD Bead Type
Stem Seal	Int	2002-05	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2002-05	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2002-05	140-3136	0.2173 I.D.,1.630 Length,0.4370 O.D.
	Exh	2002-05	140-3137	0.2173 I.D.,1.790 Length,0.4370 O.D.

1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, K20Z3, ""i-VTEC"" K20Z3 **74**
 2006-11 L4 122 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2006-11	121-1060	1 RD Bead Type
Stem Seal	Int	2006-11	122-1201	Positive Type,Viton Material,Metal Clad Style

HONDA / PASSENGER CAR OR TRUCK (Cont'd)

74 1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, K20Z3, ""i-VTEC"" K20Z3
 (cont.) 2006-11 L4 122 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES
Stem Seal	Exh	2006-11 122-1202	Positive Type,Viton Material,Metal Clad Style

75 2056cc, (2.1L), DOHC, GAS, FI, 16 Valve, B21A1 B21A1
 1990-91 L4 125 CID BORE - 83mm/3.27""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1990-91 SB1375-55 1990-91 SB1250-63	1 ³ / ₈ O.D.,1.120 I.D.,0.3250 Depth 1 ¹ / ₄ O.D.,0.930 I.D.,0.3250 Depth
Valve	Int Exh	1990-91 10195 1990-91 10414	1.299 Head Diameter 1.102 Head Diameter
Keeper	Both	1990-91 121-1054	1 RD Bead Type
Stem Seal	Both	1990-91 122-1136	Positive Type,Viton Material, Ring & Spring Style
Guide	Int Exh	1990-91 140-8156 1990-91 140-8155	0.2605 I.D.,1.770 Length,0.4765 O.D. 0.2605 I.D.,1.975 Length,0.4765 O.D.

76 2156cc, (2.2L), SOHC, GAS, FI, 16 Valve, F22A1, F22A4, F22A6 F22A
 1990-96 L4 134 CID BORE - 85mm/3.35""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1990-96 SB1375-65 1990-96 SB1250-64	1 ³ / ₈ O.D.,1.165 I.D.,0.3100 Depth 1 ¹ / ₄ O.D.,0.970 I.D.,0.2700 Depth
Valve	Int Exh	1990-96 10197A 1990-96 10198A	1.339 Head Diameter,Nitride 1.142 Head Diameter,Stellite Face, Nitride
Keeper	Both	1990-96 121-1060	1 RD Bead Type
Stem Seal	Int Exh	1990-96 122-1201 1990-96 122-1202	Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style
Guide	Int Exh	1990-96 140-8158 1990-96 140-8157	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring 0.2173 I.D.,2.130 Length,0.4358 O.D.
Head Saver Shim		1990-96 230-2122	New Hgt. 3.9291 - 3.9389; Min. Hgt. 3.919

77 2156cc, (2.2L), SOHC, GAS, FI, 16 Valve, F22B1, ""VTEC"" F22B1
 1994-97 L4 132 CID BORE - 85mm/3.35""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1994-97 SB1375-55 1994-97 SB1250-64	1 ³ / ₈ O.D.,1.120 I.D.,0.3250 Depth 1 ¹ / ₄ O.D.,0.970 I.D.,0.2700 Depth
Valve	Int Exh	1994-97 10541 1994-97 10542	1.339 Head Diameter 1.142 Head Diameter,Inconel
Keeper	Both	1994-97 121-1060	1 RD Bead Type
Stem Seal	Int Exh	1994-97 122-1201 1994-97 122-1202	Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style
Guide	Int Exh	1994-97 140-8158 1994-97 140-8157	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring 0.2173 I.D.,2.130 Length,0.4358 O.D.
Spring	Int Exh	1994-97 160-1393 1994-97 160-1394	2.020 Length 2.185 Length
Head Saver Shim		1994-97 230-2163	New Hgt. 3.935 - 3.939; Min. Hgt. - 3.932

78 2156cc, (2.2L), SOHC, GAS, FI, 16 Valve, F22B2 F22B2
 1994-97 L4 132 CID BORE - 85mm/3.35""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1994-97 SB1375-55 1994-97 SB1250-64	1 ³ / ₈ O.D.,1.120 I.D.,0.3250 Depth 1 ¹ / ₄ O.D.,0.970 I.D.,0.2700 Depth
Valve	Int	1994-97 10432	1.260 Head Diameter

(Cont'd) HONDA / PASSENGER CAR OR TRUCK**2156cc, (2.2L), SOHC, GAS, FI, 16 Valve, F22B2**
1994-97 L4 132 CID**F22B2 78**
BORE - 85mm/3.35" (cont.)

PART	YEARS	PART NO.	NOTES
Valve	Exh 1994-97	10198A	1.142 Head Diameter,Stellite Face, Nitride
Keeper	Both 1994-97	121-1060	1 RD Bead Type
Stem Seal	Int 1994-97	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 1994-97	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int 1994-97	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh 1994-97	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
Head Saver Shim	1994-97	230-2163	New Hgt. 3.935 - 3.939; Min. Hgt. - 3.932

2156cc, (2.2L), SOHC, GAS, FI, 16 Valve, F22B6
1995-97 L4 132 CID**F22B6 79**
BORE - 85mm/3.35"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1995-97	SB1375-55	1 $\frac{3}{8}$ O.D.,1.120 I.D.,0.3250 Depth
	Exh 1995-97	SB1250-64	1 $\frac{1}{4}$ O.D.,0.970 I.D.,0.2700 Depth
Valve	Int 1995-97	10432	1.260 Head Diameter
	Exh 1995-97	10198A	1.142 Head Diameter,Stellite Face, Nitride
Keeper	Both 1995-97	121-1060	1 RD Bead Type
Stem Seal	Int 1995-97	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 1995-97	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int 1995-97	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh 1995-97	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
Head Saver Shim	1995-97	230-2163	New Hgt. 3.935 - 3.939; Min. Hgt. - 3.932

2156cc, (2.2L), DOHC, GAS, FI, 16 Valve, H22A1, ""VTEC""
1993-96 L4 132 CID**H22A1 80**
BORE - 85mm/3.35"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1993-96	SB1375-65	1 $\frac{3}{8}$ O.D.,1.165 I.D.,0.3100 Depth
	Exh 1993-96	SB1250-62	1 $\frac{1}{4}$ O.D.,1.000 I.D.,0.3050 Depth
Valve	Int 1993-96	10543	1.378 Head Diameter
	Exh 1993-96	10544	1.181 Head Diameter
Stem Seal	Int 1993-96	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 1993-96	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int 1993-96	140-8582	0.2170 I.D.,1.715 Length,0.4765 O.D.
	Exh 1993-96	140-8583	0.2170 I.D.,2.045 Length,0.4763 O.D.

2156cc, (2.2L), DOHC, GAS, FI, 16 Valve, H22A4, ""VTEC""
1997-01 L4 132 CID**H22A4 81**
BORE - 87mm/3.43"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1997-01	SB1375-65	1 $\frac{3}{8}$ O.D.,1.165 I.D.,0.3100 Depth
	Exh 1997-01	SB1250-62	1 $\frac{1}{4}$ O.D.,1.000 I.D.,0.3050 Depth
Valve	Int 1997-01	10543	1.378 Head Diameter
	Exh 1997-01	10544	1.181 Head Diameter
Keeper	Both 1997-01	121-1060	1 RD Bead Type
Stem Seal	Int 1997-01	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 1997-01	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int 1997-01	140-8582	0.2170 I.D.,1.715 Length,0.4765 O.D.
	Exh 1997-01	140-8583	0.2170 I.D.,2.045 Length,0.4763 O.D.

HONDA / PASSENGER CAR OR TRUCK (Cont'd)

82 2157cc, (2.2L), DOHC, GAS, FI, 16 Valve, F22C1, ""VTEC"" F22C1
 2005-09 L4 132 CID BORE - 87mm/3.43""

PART		YEARS	PART NO.	NOTES
Stem Seal	Int	2005-09	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2005-09	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2005-09	140-3136	0.2173 I.D.,1.630 Length,0.4370 O.D.

83 2254cc, (2.3L), SOHC, GAS, FI, 16 Valve, F23A1, F23A4, F23A5, F23A7, ""VTEC"" F23A
 1998-02 L4 138 CID BORE - 86mm/3.39""

PART		YEARS	PART NO.	NOTES
Valve	Int	1998-02	10541	1.339 Head Diameter
	Exh	1998-02	10542	1.142 Head Diameter,Inconel
Keeper	Both	1998-02	121-1060	1 RD Bead Type
Stem Seal	Int	1998-02	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	1998-02	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1998-02	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	1998-02	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
Head Saver Shim		1998-02	230-2163	New Hgt. 3.935 - 3.939; Min. Hgt. - 3.932

84 2259cc, (2.3L), DOHC, GAS, FI, 16 Valve, H23A1 H23A1
 1992-96 L4 138 CID BORE - 89.3mm/3.52""

PART		YEARS	PART NO.	NOTES
Valve	Int	1992-96	10206	1.339 Head Diameter
	Exh	1992-96	10207	1.142 Head Diameter
Keeper	Both	1992-96	121-1054	1 RD Bead Type
Stem Seal	Both	1992-96	122-1152	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1992-96	140-8580	0.2605 I.D.,1.535 Length,0.4765 O.D.
	Exh	1992-96	140-8581	0.2605 I.D.,1.695 Length,0.4765 O.D.
Spring	Both	1992-96	160-1241	1.882 Length

85 2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24A1, ""i-VTEC"" K24A1
 2002-06 L4 144 CID BORE - 87mm/3.43""

PART		YEARS	PART NO.	NOTES
Valve	Int	2002-06	13172	1.378 Head Diameter
	Exh	2002-06	13173	1.181 Head Diameter,Inconel
Keeper	Both	2002-06	121-1060	1 RD Bead Type
Stem Seal	Int	2002-06	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2002-06	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2002-06	140-3136	0.2173 I.D.,1.630 Length,0.4370 O.D.
	Exh	2002-06	140-3137	0.2173 I.D.,1.790 Length,0.4370 O.D.

86 2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24A4, ""i-VTEC"" K24A4
 2003-06 L4 144 CID BORE - 87mm/3.43""

PART		YEARS	PART NO.	NOTES
Valve	Int	2003-06	13172	1.378 Head Diameter
	Exh	2003-06	13173	1.181 Head Diameter,Inconel
Keeper	Both	2003-06	121-1060	1 RD Bead Type
Stem Seal	Int	2003-06	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2003-06	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2003-06	140-3136	0.2173 I.D.,1.630 Length,0.4370 O.D.
	Exh	2003-06	140-3137	0.2173 I.D.,1.790 Length,0.4370 O.D.

(Cont'd) **HONDA / PASSENGER CAR OR TRUCK**

2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24A8, ""i-VTEC"" **K24A8 87**
2006-11 L4 144 CID BORE - 87mm/3.43""

PART		YEARS	PART NO.	NOTES
Valve	Int	2006-11	13172	1.378 Head Diameter
	Exh	2006-11	13173	1.181 Head Diameter,Inconel
Keeper	Both	2006-11	121-1060	1 RD Bead Type
Stem Seal	Int	2006-11	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2006-11	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2006-11	140-3136	0.2173 I.D.,1.630 Length,0.4370 O.D.
	Exh	2006-11	140-3137	0.2173 I.D.,1.790 Length,0.4370 O.D.

2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Y2, ""i-VTEC"" **K24Y2 88**
2012-15 L4 144 CID BORE - 87mm/3.43""

PART		YEARS	PART NO.	NOTES
Valve	Int	2012-15	13358	1.417 Head Diameter
	Exh	2012-15	13359	1.220 Head Diameter,Inconel
Keeper	Both	2012-15	121-1060	1 RD Bead Type
Stem Seal	Int	2012-15	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2012-15	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2012-15	140-3136	0.2173 I.D.,1.630 Length,0.4370 O.D.
	Exh	2012-15	140-3137	0.2173 I.D.,1.790 Length,0.4370 O.D.

2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Z1, ""i-VTEC"" **K24Z1 89**
2007-09 L4 144 CID BORE - 87mm/3.43""

PART		YEARS	PART NO.	NOTES
Valve	Int	2007-09	13172	1.378 Head Diameter
	Exh	2007-09	13173	1.181 Head Diameter,Inconel
Keeper	Both	2007-09	121-1060	1 RD Bead Type
Stem Seal	Int	2007-09	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2007-09	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2007-09	140-3136	0.2173 I.D.,1.630 Length,0.4370 O.D.
	Exh	2007-09	140-3137	0.2173 I.D.,1.790 Length,0.4370 O.D.

2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Z2, ""i-VTEC"" **K24Z2 90**
2008-12 L4 144 CID BORE - 87mm/3.43""

PART		YEARS	PART NO.	NOTES
Valve	Int	2008-12	13358	1.417 Head Diameter
	Exh	2008-12	13359	1.220 Head Diameter,Inconel
Keeper	Both	2008-12	121-1060	1 RD Bead Type
Stem Seal	Int	2008-12	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2008-12	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2008-12	140-3136	0.2173 I.D.,1.630 Length,0.4370 O.D.
	Exh	2008-12	140-3137	0.2173 I.D.,1.790 Length,0.4370 O.D.

2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Z3, ""i-VTEC"" **K24Z3 91**
2008-12 L4 144 CID BORE - 87mm/3.43""

PART		YEARS	PART NO.	NOTES
Valve	Int	2008-12	13358	1.417 Head Diameter
	Exh	2008-12	13359	1.220 Head Diameter,Inconel
Keeper	Both	2008-12	121-1060	1 RD Bead Type
Stem Seal	Int	2008-12	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2008-12	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2008-12	140-3136	0.2173 I.D.,1.630 Length,0.4370 O.D.

HONDA / PASSENGER CAR OR TRUCK (Cont'd)

91 2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Z3, ""i-VTEC"" K24Z3
 (cont.) 2008-12 L4 144 CID BORE - 87mm/3.43""

PART		YEARS	PART NO.	NOTES
Guide	Exh	2008-12	140-3137	0.2173 I.D., 1.790 Length, 0.4370 O.D.

92 2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Z6, ""i-VTEC"" K24Z6
 2010-11 L4 144 CID BORE - 87mm/3.43""

PART		YEARS	PART NO.	NOTES
Valve	Int	2010-11	13172	1.378 Head Diameter
		2010-11	13358	1.417 Head Diameter
	Exh	2010-11	13173	1.181 Head Diameter, Inconel
		2010-11	13359	1.220 Head Diameter, Inconel
Keeper	Both	2010-11	121-1060	1 RD Bead Type
Stem Seal	Int	2010-11	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	2010-11	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int	2010-11	140-3136	0.2173 I.D., 1.630 Length, 0.4370 O.D.
	Exh	2010-11	140-3137	0.2173 I.D., 1.790 Length, 0.4370 O.D.

93 2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Z7, ""i-VTEC"" K24Z7
 2012-15 L4 144 CID BORE - 87mm/3.43""

PART		YEARS	PART NO.	NOTES
Valve	Int	2012-15	13358	1.417 Head Diameter
	Exh	2012-15	13359	1.220 Head Diameter, Inconel
Keeper	Both	2012-15	121-1060	1 RD Bead Type
Stem Seal	Int	2012-15	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	2012-15	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int	2012-15	140-3136	0.2173 I.D., 1.630 Length, 0.4370 O.D.
	Exh	2012-15	140-3137	0.2173 I.D., 1.790 Length, 0.4370 O.D.

94 2356cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24W1, ""i-VTEC"" K24W1
 2013-17 L4 144 CID BORE - 87mm/3.42""

PART		YEARS	PART NO.	NOTES
Keeper	Both	2013-17	121-1060	1 RD Bead Type
Stem Seal	Int	2013-17	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	2013-17	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int	2013-17	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring

95 2356cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24W9, ""i-VTEC"" K24W9
 2015-19 L4 144 CID BORE - 86.5mm/3.41""

PART		YEARS	PART NO.	NOTES
Keeper	Both	2015-19	121-1060	1 RD Bead Type
Stem Seal	Int	2015-19	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	2015-19	122-1202	Positive Type, Viton Material, Metal Clad Style

96 2559cc, (2.6L), SOHC, GAS, FI, 8 Valve, 4ZE1 ""Isuzu"" HON4ZE1
 1994-96 L4 156 CID BORE - 92.6mm/3.65""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1994-96	SB1812-51	1 ¹³ / ₁₆ O.D., 1.530T I.D., 0.3070 Depth
	Exh	1994-96	SB1625-54	1 ⁵ / ₈ O.D., 1.329 I.D., 0.2800 Depth
Valve	Exh	1994-96	10221S	1.453 Head Diameter, Stellite Face
Keeper	Both	1994-96	121-1047	1 SQ Bead Type
Stem Seal	Both	1994-96	122-1119	Positive Type, Viton Material, Ring & Spring Style
Guide	Int	1994-96	140-7713	0.3145 I.D., 1.810 Length, 0.4745 O.D.

(Cont'd) HONDA / PASSENGER CAR OR TRUCK

2559cc, (2.6L), SOHC, GAS, FI, 8 Valve, 4ZE1 ""Isuzu"" HON4ZE1 **96**
 1994-96 L4 156 CID BORE - 92.6mm/3.65"" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Exh 1994-96	140-7714	0.3145 I.D.,2.160 Length,0.4745 O.D.,+2 O/S Available
Head Saver Shim	1994-96	230-2041	New Hgt.- 3.6673 - 3.6712; Min. Hgt.- 3.6513

2675cc, (2.7L), SOHC, GAS, FI, 24 Valve, C27A4 C274A **97**
 1995-97 V6 163 CID BORE - 87mm/3.42""

PART	YEARS	PART NO.	NOTES
Valve	Int 1995-97	10195	1.299 Head Diameter
	Exh 1995-95	10123	1.084 Head Diameter,4.204 Overall Length
Keeper	Both 1995-97	121-1054	1 RD Bead Type
Stem Seal	Both 1995-97	122-1152	Positive Type,Viton Material,Metal Clad Style
Guide	Int 1995-97	140-8156	0.2605 I.D.,1.770 Length,0.4765 O.D.

2997cc, (3.0L), SOHC, GAS, FI, 24 Valve, J30A1, ""VTEC"" J30A1 **98**
 1998-02 V6 183 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES
Valve	Int 1998-02	10541	1.339 Head Diameter
	Exh 1998-02	10542	1.142 Head Diameter,Inconel
Keeper	Both 1998-02	121-1060	1 RD Bead Type
Stem Seal	Int 1998-02	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 1998-02	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int 1998-02	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh 1998-02	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
Head Saver Shim	1998-02	230-2170	New Hgt. - 4.762 - 4.766; Min. Hgt. - N/A

2997cc, (3.0L), SOHC, GAS, FI, 24 Valve, J30A4, ""VTEC"" J30A4 **99**
 2003-05 V6 183 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES
Valve	Int 2003-05	10778	1.378 Head Diameter
	Exh 2003-05	10779	1.181 Head Diameter
Keeper	Both 2003-05	121-1060	1 RD Bead Type
Stem Seal	Int 2003-05	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 2003-05	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2003-05	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh 2003-05	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

2997cc, (3.0L), SOHC, GAS, FI, 24 Valve, J30A5, ""VTEC"" J30A5 **100**
 2006-07 V6 183 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES
Valve	Int 2006-07	10778	1.378 Head Diameter
	Exh 2006-07	10779	1.181 Head Diameter
Keeper	Both 2006-07	121-1060	1 RD Bead Type
Stem Seal	Int 2006-07	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 2006-07	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2006-07	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh 2006-07	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

2997cc, (3.0L), SOHC, ELECTRIC/GAS, FI, 24 Valve, JNA1, ""i-VTEC Hybrid"" JNA1 **101**
 2005-07 V6 183 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES
Keeper	Both 2005-07	121-1060	1 RD Bead Type

HONDA / PASSENGER CAR OR TRUCK (Cont'd)

101 2997cc, (3.0L), SOHC, ELECTRIC/GAS, FI, 24 Valve, JNA1, ""i-VTEC Hybrid"" JNA1
(cont.) 2005-07 V6 183 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES	
Stem Seal	Int	2005-07	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2005-07	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2005-07	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2005-07	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

102 3165cc, (3.2L), SOHC, GAS, FI, 24 Valve, 6VD1, ""Isuzu"" HON6VD1
1994-97 V6 193 CID BORE - 91.4mm/3.60""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1994-97	SB1437-67	1 ⁷ / ₁₆ O.D.,1.180T I.D.,0.2550 Depth
Valve	Int	1994-97	10502	1.339 Head Diameter
	Exh	1994-97	10503	1.181 Head Diameter
Keeper	Both	1994-97	121-1074	1 RD Bead Type
Stem Seal	Both	1994-97	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1994-97	140-8255	0.2345 I.D.,1.775 Length,0.4355 O.D.,I.D. Must Be Reamed To Size
Spring	Both	1994-97	160-1372	1.970 Length
Lifter	Both	1994-97	VL146	Hydraulic Lash Adjuster Type
Head Saver Shim		1994-97	230-2094	New Hgt. - 4.126, 2 Required

103 3165cc, (3.2L), DOHC, GAS, FI, 24 Valve, 6VD1W, ""Isuzu"" HON6VD1W
1998-02 V6 193 CID BORE - 93.4mm/3.68""

PART	YEARS	PART NO.	NOTES	
Valve	Int	1998-02	10739	1.338 Head Diameter
	Exh	1998-02	10740	1.142 Head Diameter
Keeper	Both	1998-02	121-1074	1 RD Bead Type
Guide	Both	1998-02	140-8255	0.2345 I.D.,1.775 Length,0.4355 O.D.,I.D. Must Be Reamed To Size

104 3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A1, ""VTEC"" J35A1
1999-01 V6 212 CID BORE - 90mm/3.54""

PART	YEARS	PART NO.	NOTES	
Valve	Int	1999-01	10541	1.339 Head Diameter
	Exh	1999-01	10542	1.142 Head Diameter,Inconel
Keeper	Both	1999-01	121-1060	1 RD Bead Type
Stem Seal	Int	1999-01	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	1999-01	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1999-01	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	1999-01	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
Head Saver Shim		1999-01	230-2171	New Hgt. - 4.762 - 4.766; Min. Hgt. - 4.758

105 3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A4, ""VTEC"" J35A4
2002-04 V6 212 CID BORE - 90mm/3.54""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2002-04	10778	1.378 Head Diameter
	Exh	2002-04	10779	1.181 Head Diameter
Keeper	Both	2002-04	121-1060	1 RD Bead Type
Stem Seal	Int	2002-04	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2002-04	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2002-04	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring

(Cont'd) HONDA / PASSENGER CAR OR TRUCK

3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A4, ""VTEC"" **J35A4 105**
 2002-04 V6 212 CID BORE - 90mm/3.54"" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Exh 2002-04	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
Head Saver Shim	2002-04	230-2171	New Hgt. - 4.762 - 4.766; Min. Hgt. - 4.758

3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A6, ""i-VTEC"" **J35A6 106**
 2005-10 V6 212 CID BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES
Valve	Int 2005-10	10778	1.378 Head Diameter
	Exh 2005-10	10779	1.181 Head Diameter
Keeper	Both 2005-10	121-1060	1 RD Bead Type
Stem Seal	Int 2005-10	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 2005-10	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2005-10	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh 2005-10	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
Head Saver Shim	2005-10	230-2172	New Hgt. - 4.762 - 4.766; Min. Hgt. - 4.758

3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A7, ""i-VTEC"" **J35A7 107**
 2005-10 V6 212 CID BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES
Valve	Int 2005-10	10778	1.378 Head Diameter
	Exh 2005-10	10779	1.181 Head Diameter
Keeper	Both 2005-10	121-1060	1 RD Bead Type
Stem Seal	Int 2005-10	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 2005-10	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2005-10	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh 2005-10	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A9, ""VTEC"" **J35A9 108**
 2006-08 V6 212 CID BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES
Valve	Int 2006-08	10778	1.378 Head Diameter
	Exh 2006-08	10779	1.181 Head Diameter
Keeper	Both 2006-08	121-1060	1 RD Bead Type
Stem Seal	Int 2006-08	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 2006-08	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2006-08	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh 2006-08	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
Head Saver Shim	2006-08	230-2172	New Hgt. - 4.762 - 4.766; Min. Hgt. - 4.758

3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Y1, ""i-VTEC"" **J35Y1 109**
 2013-17 V6 212 CID BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES
Valve	Int 2013-17	13336	1.417 Head Diameter
	Exh 2013-17	10779	1.181 Head Diameter
Keeper	Both 2013-17	121-1060	1 RD Bead Type
Stem Seal	Int 2013-17	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 2013-17	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2013-17	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh 2013-17	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

HONDA / PASSENGER CAR OR TRUCK (Cont'd)

110 3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Y2, ""i-VTEC"" J35Y2
 2014-17 V6 212 CID BORE - 89mm/3.50""

PART		YEARS	PART NO.	NOTES
Valve	Int	2014-17	13336	1.417 Head Diameter
	Exh	2014-17	10779	1.181 Head Diameter
Keeper	Both	2014-17	121-1060	1 RD Bead Type
Stem Seal	Int	2014-17	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2014-17	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2014-17	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2014-17	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

111 3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Y6, ""i-VTEC"" J35Y6
 2016-21 V6 212 CID BORE - 89mm/3.50""

PART		YEARS	PART NO.	NOTES
Valve	Int	2017-21	13336	1.417 Head Diameter
	Exh	2016-21	10779	1.181 Head Diameter
Keeper	Both	2016-21	121-1060	1 RD Bead Type
Stem Seal	Int	2016-21	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2016-21	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2016-21	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2016-21	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

112 3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Y7, ""i-VTEC"" J35Y7
 2018-21 V6 212 CID BORE - 89mm/3.50""

PART		YEARS	PART NO.	NOTES
Valve	Int	2018-21	13336	1.417 Head Diameter
	Exh	2018-21	10779	1.181 Head Diameter
Keeper	Both	2018-21	121-1060	1 RD Bead Type
Stem Seal	Int	2018-21	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2018-21	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2018-21	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2018-21	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

113 3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z1, ""i-VTEC"" J35Z1
 2006-08 V6 212 CID BORE - 89mm/3.50""

PART		YEARS	PART NO.	NOTES
Valve	Int	2006-08	10778	1.378 Head Diameter
	Exh	2006-08	10779	1.181 Head Diameter
Keeper	Both	2006-08	121-1060	1 RD Bead Type
Stem Seal	Int	2006-08	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2006-08	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2006-08	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2006-08	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

114 3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z2, ""i-VTEC"" J35Z2
 2008-13 V6 212 CID BORE - 89mm/3.50""

PART		YEARS	PART NO.	NOTES
Valve	Int	2008-13	13336	1.417 Head Diameter
	Exh	2008-13	10779	1.181 Head Diameter
Keeper	Both	2008-13	121-1060	1 RD Bead Type
Stem Seal	Int	2008-13	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2008-13	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Exh	2008-13	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

(Cont'd) **HONDA / PASSENGER CAR OR TRUCK**

3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z2, ""i-VTEC"" J35Z2 **114**
2008-13 V6 212 CID BORE - 89mm/3.50"" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Exh 2008-13	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring

3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z3, ""i-VTEC"" J35Z3 **115**
2008-12 V6 212 CID BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES
Valve	Int 2008-12	13336	1.417 Head Diameter
	Exh 2008-12	10779	1.181 Head Diameter
Keeper	Both 2008-12	121-1060	1 RD Bead Type
Stem Seal	Int 2008-12	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 2008-12	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2008-12	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh 2008-12	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z4, ""i-VTEC"" J35Z4 **116**
2009-15 V6 212 CID BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES
Valve	Int 2009-15	13336	1.417 Head Diameter
	Exh 2009-15	10779	1.181 Head Diameter
Keeper	Both 2009-15	121-1060	1 RD Bead Type
Stem Seal	Int 2009-15	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 2009-15	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2009-15	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh 2009-15	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z5, ""VTEC"" J35Z5 **117**
2009-14 V6 212 CID BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES
Valve	Int 2009-14	13336	1.417 Head Diameter
	Exh 2009-14	10779	1.181 Head Diameter
Keeper	Both 2009-14	121-1060	1 RD Bead Type
Stem Seal	Int 2009-14	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 2009-14	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2009-14	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh 2009-14	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z8, ""i-VTEC"" J35Z8 **118**
2011-17 V6 212 CID BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES
Valve	Int 2011-17	13336	1.417 Head Diameter
	Exh 2011-17	10779	1.181 Head Diameter
Keeper	Both 2011-17	121-1060	1 RD Bead Type
Stem Seal	Int 2011-17	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 2011-17	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2011-17	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh 2011-17	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

HYUNDAI / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
1353cc, (1.4L), DOHC, GAS, FI, 16 Valve, Vin A, ""Kappa II GDi TURBO"" (2017-20)	Elantra Eco	1
1468cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin J, G4AJ, ""Mitsubishi"" (1986-89)	Excel	2
1468cc, (1.5L), SOHC, GAS, FI, 8 Valve, Vin J, G4DJ, ""Mitsubishi"" (1990-94)	Excel, Scoupe	3
1495cc, (1.5L), SOHC, GAS, FI, 12 Valve, Vin G, N, G4EK, ""Alpha N/A & TURBO"" (1993-02)	Accent, Scoupe	4
1495cc, (1.5L), DOHC, GAS, FI, 16 Valve, Vin N, G4FK, ""Alpha"" (1996-97)	Accent	5
1591cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 3, D, E, G4FC, G4FD"" ""Gamma MPI/GDi"" (2012-19)	Accent, Veloster	6
1591cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 2, 5, A, B, C, E, G4FJ, ""Gamma T-GDi TURBO"" (2013-21)	Elantra, Elantra GT, Kona, Sonata, Tucson, Veloster	7
1596cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin R, G4GR, ""Mitsubishi"" (1992-95)	Elantra	8
1599cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin C, G4ED, ""Alpha II"" (2001-11)	Accent	9
1795cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin M, G4GM, ""Beta I"" (1996-98)	Elantra, Tiburon	10
1797cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin E, G4NB, ""Nu MPI"" (2011-16)	Elantra, Elantra Coupe, Elantra GT	11
1836cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin M, G4CN, ""Sirius I / 4G67 Mitsubishi"" (1993-95)	Elantra	12
1975cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin B, D, E, G4GC, ""Beta II"" (2001-13)	Elantra, Tiburon, Tucson	13
1975cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F, G4GF, ""Beta I"" (1997-01)	1997-00 Elantra, 1997-01 Tiburon	14
1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F, G4CP, ""Sirius I / 4G63 Mitsubishi"" (1992-98)	Sonata, Tiburon	15
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin D, G4KF, ""Theta II MPI TURBO"" (2010-14)	Genesis Coupe Turbo	16
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin A, B, H, G4KH, G4KL, ""Theta/Theta II T-GDi TURBO"" (2011-21)	G70, Santa Fe, Santa Fe Sport, Sonata, Veloster N	17
1999cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 4, A, E, F, H, G4NC, ""Nu GDi"" (2014-21)	Elantra, Elantra Coupe, Elantra GT, Kona, Tucson, Veloster	18
1999cc, (2.0L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin 1, 2, J, G4NG, ""Nu GDi Hybrid"" (2016-20)	Sonata	19
2351cc, (2.4L), SOHC, GAS, FI, 8 Valve, Vin S, G4CS, ""Sirius I / 4G64 Mitsubishi"" (1989-91)	Sonata	20
2351cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin S, G4JS, ""Sirius II / 4G64 ""Mitsubishi"" (1999-06)	Santa Fe, Sonata	21
2359cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin B, C, G4KC, ""Theta II MPI"" (2006-13)	Santa Fe, Sonata, Tucson	22
2359cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin B, C, D, F, G, L, G4KE, G4KJ, ""Theta II GDi"" (2011-21)	Santa Fe, Santa Fe Sport, Sonata, Tucson	23
2359cc, (2.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin 4, G4KK, ""Theta II Hybrid"" (2011-15)	Sonata	24
6 Cylinder		
2493cc, (2.5L), DOHC, GAS, FI, 24 Valve, Vin V, G6BV, ""Delta"" (1999-01)	Sonata	25

(Cont'd) **HYUNDAI / PASSENGER CAR OR TRUCK**

Engine	Models	Line No.		
6 Cylinder				
2656cc, (2.7L), DOHC, GAS, FI, 24 Valve, Vin D, F, G6BA, ""Delta"" (2001-09)	Santa Fe, Sonata, Tiburon, Tucson	26		
2656cc, (2.7L), DOHC, GAS, FI, 24 Valve, Vin D, G6EA, ""Mu"" (2007-09)	Santa Fe	27		
2972cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin T, G6AT, ""Sigma"" (1990-98)	Sonata	28		
2972cc, (3.0L), SOHC, GAS, FI, 24 Valve, G6CT, ""Sigma / 6G7 Mitsubishi"" (2001-01)	XG300	29		
3342cc, (3.3L), DOHC, GAS, FI, 24 Valve, Vin D, E, F, G6DB, ""Lambda/Lambda II MPI"" (2006-11)	Azera, Santa Fe, Sonata	30		
3342cc, (3.3L), DOHC, GAS, FI, 24 Valve, Vin F, G, G6DH, ""Lambda II GDi"" (2012-19)	Azera, Santa Fe, Santa Fe XL	31		
3342cc, (3.3L), DOHC, GAS, FI, 24 Valve, Vin A, B, E, ""Genesis Lambda II T-GDi TURBO"" (2017-20)	G70, G80, G90	32		
3467cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin E, G6AU, ""Sigma"" (2002-06)	Santa Fe, XG350	33		
3470cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin G, G6DB, ""Lambda II"" (2010-10)	Santa Fe	34		
3470cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin G, G6DC, ""Lambda II"" (2010-12)	Santa Fe	35		
3778cc, (3.8L), DOHC, GAS, FI, 24 Valve, Vin 3, C, F, G6DA, ""Lambda MPI"" (2006-12)	Azera, Entourage, Veracruz	36		
3778cc, (3.8L), DOHC, GAS, FI, 24 Valve, Vin D, E, H, J, G6DJ, ""Lambda II MPI/GDi"" (2009-21)	G80, Genesis, Genesis Coupe, Palisade	37		
1535cc, (1.4L), DOHC, GAS, FI, 16 Valve, Vin A, ""Kappa II GDi TURBO""	HYU1.4-A	1		
2017-20	L4 83 CID	BORE - 71.6mm/2.83""		
PART	YEARS	PART NO.	NOTES	
Keeper	Both	2017-20	121-1060	1 RD Bead Type
1468cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin J, G4AJ, ""Mitsubishi""	HYU1.5-G4AJ	2		
1986-89	L4 90 CID	BORE - 75.5mm/2.97""		
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1986-89	SB1312-53	1 $\frac{5}{16}$ O.D.,0.980T I.D.,0.2930 Depth
Keeper	Both	1986-89	121-1031	1 RD Bead Type
Stem Seal	Both	1986-89	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Exh	1986-89	140-7589	0.2600 I.D.,1.950 Length,0.4755 O.D.
1468cc, (1.5L), SOHC, GAS, FI, 8 Valve, Vin J, G4DJ, ""Mitsubishi""	HYU1.5-G4DJ	3		
1990-94	L4 90 CID	BORE - 75.5mm/2.97""		
PART	YEARS	PART NO.	NOTES	
Keeper	Both	1990-94	121-1031	1 RD Bead Type
Stem Seal	Both	1990-94	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Exh	1990-94	140-7589	0.2600 I.D.,1.950 Length,0.4755 O.D.
1495cc, (1.5L), SOHC, GAS, FI, 12 Valve, Vin G, N, G4EK, ""Alpha N/A & TURBO""	HYU1.5-G4EK	4		
1993-02	L4 91 CID	BORE - 75.5mm/2.97""		
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1993-02	SB1125-53	1 $\frac{1}{8}$ O.D.,0.890T I.D.,0.2370 Depth
	Exh	1993-02	SB1375-63	1 $\frac{1}{8}$ O.D.,1.057T I.D.,0.2400 Depth

HYUNDAI / PASSENGER CAR OR TRUCK (Cont'd)

4 1495cc, (1.5L), SOHC, GAS, FI, 12 Valve, Vin G, N, G4EK, ""Alpha N/A & TURBO""
 (cont.) 1993-02 L4 91 CID HYU1.5-G4EK
 BORE - 75.5mm/2.97""

PART	YEARS	PART NO.	NOTES	
Valve	Int	1993-02	10547	1.079 Head Diameter,3.906 Overall Length, Incl. Turbo
	Exh	1993-94	10548	1.260 Head Diameter,3.906 Overall Length, Incl. Turbo
		1995-02	10549	1.260 Head Diameter,3.870 Overall Length, Incl. Turbo
Keeper	Both	1993-02	121-1102	1 RD Bead Type
Stem Seal	Both	1993-02	122-1366	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1993-02	140-8572	0.2360 I.D.,1.690 Length,0.4360 O.D.
	Exh	1993-02	140-8573	0.2360 I.D.,1.540 Length,0.4358 O.D.

5 1495cc, (1.5L), DOHC, GAS, FI, 16 Valve, Vin N, G4FK, ""Alpha""
 1996-97 L4 91 CID HYU1.5-G4FK
 BORE - 75.5mm/2.97""

PART	YEARS	PART NO.	NOTES	
Valve	Int	1996-97	10812	1.110 Head Diameter
	Exh	1996-97	10813	0.984 Head Diameter
Stem Seal	Both	1996-97	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1996-97	140-8147	0.2370 I.D.,1.520 Length,0.4360 O.D.

6 1591cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 3, D, E, G4FC, G4FD""
 ""Gamma MPI/GDi""
 2012-19 L4 97 CID HYU1.6-G4FC_D
 BORE - 77mm/3.03""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2012-19	121-1060	1 RD Bead Type

7 1591cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 2, 5, A, B, C, E, G4FJ,
 ""Gamma T-GDi TURBO""
 2013-21 L4 97 CID HYU1.6-G4FJ
 BORE - 77mm/3.03""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2013-21	121-1060	1 RD Bead Type

8 1596cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin R, G4GR, ""Mitsubishi""
 1992-95 L4 97 CID HYU1.6-G4GR
 BORE - 75.5mm/2.97""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1992-95	SB1437-68	1 ⁷ / ₁₆ O.D.,1.135T I.D.,0.3160 Depth
	Exh	1992-95	SB1312-64	1 ⁵ / ₁₆ O.D.,1.045 I.D.,0.3160 Depth
Valve	Int	1992-95	10126A	1.339 Head Diameter,Nitride
		1992-95	10126R	1.378 Head Diameter,Performance Version W/ 1.0mm Larger Head Diameter
	Exh	1992-95	10128A	1.201 Head Diameter,Nitride
		1992-95	10128R	1.221 Head Diameter,Performance Version W/ 0.5mm Larger Head Diameter
Keeper	Both	1992-95	121-1031	1 RD Bead Type
Stem Seal	Both	1992-95	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1992-95	140-8193	0.2600 I.D.,1.795 Length,0.4755 O.D.,+2 O/S Available
		1992-95	340-1013BR	0.2598 I.D.,1.795 Length,0.4760 O.D.,Optional Bronze Guide
	Exh	1992-95	140-8194	0.2600 I.D.,1.990 Length,0.4755 O.D.,+2 O/S Available
		1992-95	340-1014BR	0.2598 I.D.,1.990 Length,0.4755 O.D.,Optional Bronze Guide
Lifter	Both	1992-95	VL135	Hydraulic Lash Adjuster Type
Head Saver Shim		1992-95	230-2001	New Hgt.- 5.1968 - 5.2000; Min. Hgt.- 5.1880

(Cont'd) HYUNDAI / PASSENGER CAR OR TRUCK

1599cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin C, G4ED, ""Alpha II"" HYU1.6-G4ED **9**
 2001-11 L4 98 CID BORE - 76.5mm/3.01""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2001-11	13047	1.146 Head Diameter
	Exh	2001-11	10813	0.984 Head Diameter
Keeper	Both	2001-11	121-1102	1 RD Bead Type
Stem Seal	Both	2001-11	122-1366	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2001-11	140-8147	0.2370 I.D.,1.520 Length,0.4360 O.D.
Lifter	Both	2001-11	VL568	Hydraulic Bucket Type
Head Saver Shim		2001-11	230-2190	New Hgt. - 2.496; Min. Htg. - N/A

1795cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin M, G4GM, ""Beta I"" HYU1.8-G4GM **10**
 1996-98 L4 109 CID BORE - 81.5mm/3.21""

PART	YEARS	PART NO.	NOTES	
Valve	Int	1996-98	10723	1.257 Head Diameter
	Exh	1996-98	10724	1.081 Head Diameter
Keeper	Both	1996-98	121-1102	1 RD Bead Type
Stem Seal	Both	1996-98	122-1366	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1996-98	140-8554	0.2355 I.D.,1.790 Length,0.4360 O.D.
	Exh	1996-98	140-8571	0.2360 I.D.,1.990 Length,0.4360 O.D.
Lifter	Both	1996-98	VL564	Hydraulic Bucket Type

1797cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin E, G4NB, ""Nu MPI"" HYU1.8-G4NB **11**
 2011-16 L4 110 CID BORE - 81mm/3.19""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2011-16	121-1060	1 RD Bead Type
Stem Seal	Both	2011-16	122-1440	Positive Type,Viton Material,Top Hat Style

1836cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin M, G4CN, ""Sirius I / 4G67 Mitsubishi"" HYU1.8-G4CN **12**
 1993-95 L4 112 CID BORE - 81.5mm/3.21""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1993-95	SB1437-68	1 $\frac{7}{16}$ O.D.,1.135T I.D.,0.3160 Depth
	Exh	1993-95	SB1312-64	1 $\frac{5}{16}$ O.D.,1.045 I.D.,0.3160 Depth
Valve	Int	1993-95	10126A	1.339 Head Diameter,Nitride
		1993-95	10126R	1.378 Head Diameter,Performance Version W/ 1.0mm Larger Head Diameter
	Exh	1993-95	10128A	1.201 Head Diameter,Nitride
		1993-95	10128R	1.221 Head Diameter,Performance Version W/ 0.5mm Larger Head Diameter
Keeper	Both	1993-95	121-1031	1 RD Bead Type
Stem Seal	Both	1993-95	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1993-95	140-8193	0.2600 I.D.,1.795 Length,0.4755 O.D.,+2 O/S Available
		1993-95	340-1013BR	0.2598 I.D.,1.795 Length,0.4760 O.D.,Optional Bronze Guide
	Exh	1993-95	140-8194	0.2600 I.D.,1.990 Length,0.4755 O.D.,+2 O/S Available
		1993-95	340-1014BR	0.2598 I.D.,1.990 Length,0.4755 O.D.,Optional Bronze Guide
Lifter	Both	1993-95	VL135	Hydraulic Lash Adjuster Type
Head Saver Shim		1993-95	230-2001	New Hgt.- 5.1968 - 5.2000; Min. Hgt.- 5.1880

1975cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin B, D, E, G4GC, ""Beta II"" HYU2.0-G4GC **13**
 2001-13 L4 120 CID BORE - 82mm/3.23""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2001-12	10816	1.257 Head Diameter,Elantra 01-Up, Tiburon 02-Up

HYUNDAI / PASSENGER CAR OR TRUCK (Cont'd)

13 1975cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin B, D, E, G4GC, ""Beta II"" HYU2.0-G4GC
(cont.) 2001-13 L4 120 CID BORE - 82mm/3.23""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2013-13	13255	1.378 Head Diameter
	Exh	2001-12	10817	1.081 Head Diameter,Elantra 01-Up, Tiburon 02-Up
		2013-13	13256	1.142 Head Diameter
Keeper	Both	2001-12	121-1102	1 RD Bead Type
		2013-13	121-1060	1 RD Bead Type
Stem Seal	Both	2001-12	122-1366	Positive Type,Viton Material,Metal Clad Style
		2013-13	122-1440	Positive Type,Viton Material,Top Hat Style
Guide	Int	2001-12	140-8554	0.2355 I.D.,1.790 Length,0.4360 O.D.
	Exh	2001-12	140-8571	0.2360 I.D.,1.990 Length,0.4360 O.D.
	Both	2013-13	140-3154	0.2168 I.D.,1.740 Length,0.4358 O.D.
Head Saver Shim		2001-10	230-2136	New Hgt.- 4.093 - 4.096; Min. Hgt.- N/A

14 1975cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F, G4GF, ""Beta I"" HYU2.0-G4GF
1997-01 L4 120 CID BORE - 82mm/3.23""

PART	YEARS	PART NO.	NOTES	
Valve	Int	1997-01	10723	1.257 Head Diameter,Elantra 97-00, Tiburon 97-01
	Exh	1997-01	10724	1.081 Head Diameter,Elantra 97-00, Tiburon 97-01
Keeper	Both	1997-01	121-1102	1 RD Bead Type
Stem Seal	Both	1997-01	122-1366	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1997-01	140-8554	0.2355 I.D.,1.790 Length,0.4360 O.D.
	Exh	1997-01	140-8571	0.2360 I.D.,1.990 Length,0.4360 O.D.
Lifter	Both	1997-01	VL564	Hydraulic Bucket Type,Note: Except 2001 Elantra
Head Saver Shim		1997-01	230-2136	New Hgt.- 4.093 - 4.096; Min. Hgt.- N/A

15 1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F, G4CP, ""Sirius I / 4G63 Mitsubishi"" HYU2.0-G4CP
1992-98 L4 122 CID BORE - 82mm/3.23""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1992-98	SB1437-68	1 ⁷ / ₁₆ O.D.,1.135T I.D.,0.3160 Depth
	Exh	1992-98	SB1312-64	1 ⁵ / ₁₆ O.D.,1.045 I.D.,0.3160 Depth
Valve	Int	1992-98	10126A	1.339 Head Diameter,Nitride
		1992-98	10126R	1.378 Head Diameter,Performance Version W/ 1.0mm Larger Head Diameter
	Exh	1992-98	10128A	1.201 Head Diameter,Nitride
		1992-98	10128R	1.221 Head Diameter,Performance Version W/ 0.5mm Larger Head Diameter
Keeper	Both	1992-98	121-1031	1 RD Bead Type
Stem Seal	Both	1992-98	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1992-98	140-8193	0.2600 I.D.,1.795 Length,0.4755 O.D.,+2 O/S Available
		1992-98	340-1013BR	0.2598 I.D.,1.795 Length,0.4760 O.D.,Optional Bronze Guide
	Exh	1992-98	140-8194	0.2600 I.D.,1.990 Length,0.4755 O.D.,+2 O/S Available
		1992-98	340-1014BR	0.2598 I.D.,1.990 Length,0.4755 O.D.,Optional Bronze Guide
Lifter	Both	1992-98	VL135	Hydraulic Lash Adjuster Type
Head Saver Shim		1992-98	230-2001	New Hgt.- 5.1970; Min. Hgt.- 5.1890

16 1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin D, G4KF, ""Theta II MPI TURBO"" HYU2.0-G4KF
2010-14 L4 122 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2010-14	13255	1.378 Head Diameter

(Cont'd) **HYUNDAI / PASSENGER CAR OR TRUCK**

1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin D, G4KF, ""Theta II MPI TURBO"" **16**
HYU2.0-G4KF (cont.)
2010-14 L4 122 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2010-14 121-1060	1 RD Bead Type
Stem Seal	Both	2010-14 122-1440	Positive Type,Viton Material,Top Hat Style

1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin A, B, H, G4KH, G4KL, ""Theta/Theta II T-GDi TURBO"" **17**
HYU2.0-G4KT
2011-21 L4 122 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES
Valve	Int	2011-21 13255	1.378 Head Diameter
Keeper	Both	2011-21 121-1060	1 RD Bead Type
Stem Seal	Both	2011-21 122-1440	Positive Type,Viton Material,Top Hat Style
Guide	Both	2011-21 140-3154	0.2168 I.D.,1.740 Length,0.4358 O.D.

1999cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 4, A, E, F, H, G4NC, ""Nu GDi"" **18**
HYU2.0-G4NC
2014-21 L4 122 CID BORE - 81mm/3.19""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2014-21 121-1060	1 RD Bead Type
Stem Seal	Both	2014-21 122-1440	Positive Type,Viton Material,Top Hat Style

1999cc, (2.0L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin 1, 2, J, G4NG, ""Nu GDi Hybrid"" **19**
HYU2.0-G4NG
2016-20 L4 122 CID BORE - 81mm/3.19""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2016-20 121-1060	1 RD Bead Type
Stem Seal	Both	2016-20 122-1440	Positive Type,Viton Material,Top Hat Style

2351cc, (2.4L), SOHC, GAS, FI, 8 Valve, Vin S, G4CS, ""Sirius I / 4G64 Mitsubishi"" **20**
HYU2.4-G4CS
1989-91 L4 143 CID BORE - 86.5mm/3.41""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1989-91 SB1875-51	1 $\frac{7}{8}$ O.D.,1.575T I.D.,0.3170 Depth
	Exh	1989-91 SB1625-56	1 $\frac{5}{8}$ O.D.,1.298T I.D.,0.3170 Depth,+10, +30 O/S Available
Valve	Int	1989-91 10143	1.811 Head Diameter
	Exh	1989-91 10144	1.496 Head Diameter
Keeper	Both	1989-91 121-1039	1 RD Bead Type
Stem Seal	Both	1989-91 122-1086	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1989-91 140-7576	0.3150 I.D.,1.735 Length,0.5145 O.D.
	Exh	1989-91 140-7575	0.3150 I.D.,2.046 Length,0.5145 O.D.,W/ Snap Ring,+2 & +6 O/S Available
Spring	Both	1989-91 160-1079	1.960 Length
Lifter	Both	1989-91 VL141	Hydraulic Lash Adjuster Type
Head Saver Shim		1989-91 230-2004	New Hgt.- 3.5430 - 3.5440; Min. Hgt.- 3.5230

2351cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin S, G4JS, ""Sirius II / 4G64 Mitsubishi"" **21**
HYU2.4-G4JS
1999-06 L4 143 CID BORE - 86.5mm/3.41""

PART	YEARS	PART NO.	NOTES
Valve	Int	1999-06 10126A	1.339 Head Diameter,Nitride
		1999-06 10126R	1.378 Head Diameter,Performance Version W/ 1.0mm Larger Head Diameter

HYUNDAI / PASSENGER CAR OR TRUCK (Cont'd)

21 2351cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin S, G4JS, ""Sirius II / 4G64
 (cont.) ""Mitsubishi"" HYU2.4-G4JS
 1999-06 L4 143 CID BORE - 86.5mm/3.41""

PART		YEARS	PART NO.	NOTES
Valve	Exh	1999-06	10128A	1.201 Head Diameter,Nitride
		1999-06	10128R	1.221 Head Diameter,Performance Version W/ 0.5mm Larger Head Diameter
Keeper	Both	1999-06	121-1031	1 RD Bead Type
Stem Seal	Both	1999-06	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1999-06	140-8193	0.2600 I.D.,1.795 Length,0.4755 O.D.,+2 O/S Available
		1999-06	340-1013BR	0.2598 I.D.,1.795 Length,0.4760 O.D.,Optional Bronze Guide
	Exh	1999-06	140-8194	0.2600 I.D.,1.990 Length,0.4755 O.D.,+2 O/S Available
		1999-06	340-1014BR	0.2598 I.D.,1.990 Length,0.4755 O.D.,Optional Bronze Guide
Lifter	Both	1999-06	VL135	Hydraulic Lash Adjuster Type
Head Bolt Set		1999-06	220-1114	Torque To Yield,Services Engine
Head Saver Shim		1999-06	230-2149	New Hgt. 5.197-5.200; Min. Hgt. N/A

22 2359cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin B, C, G4KC, ""Theta II MPI"" HYU2.4-G4KC
 2006-13 L4 144 CID BORE - 88mm/3.46""

PART		YEARS	PART NO.	NOTES
Valve	Int	2006-13	13255	1.378 Head Diameter
	Exh	2006-13	13256	1.142 Head Diameter
Stem Seal	Both	2006-13	122-1440	Positive Type,Viton Material,Top Hat Style
Guide	Both	2006-13	140-3154	0.2168 I.D.,1.740 Length,0.4358 O.D.
Head Saver Shim		2006-13	230-2206	New Hgt.-N/A, Min. Hgt.-N/A

23 2359cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin B, C, D, F, G, L, G4KE, G4KJ, ""Theta II GDI"" HYU2.4-G4KE_J
 2011-21 L4 144 CID BORE - 88mm/3.46""

PART		YEARS	PART NO.	NOTES
Valve	Int	2011-20	13255	1.378 Head Diameter
	Exh	2011-20	13256	1.142 Head Diameter
Keeper	Both	2011-20	121-1060	1 RD Bead Type
Stem Seal	Both	2011-20	122-1440	Positive Type,Viton Material,Top Hat Style
Guide	Both	2011-20	140-3154	0.2168 I.D.,1.740 Length,0.4358 O.D.

24 2359cc, (2.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin 4, G4KK, ""Theta II Hybrid"" HYU2.4-G4KK
 2011-15 L4 144 CID BORE - 88mm/3.46""

PART		YEARS	PART NO.	NOTES
Valve	Int	2011-15	13255	1.378 Head Diameter
	Exh	2011-15	13256	1.142 Head Diameter
Keeper	Both	2011-15	121-1060	1 RD Bead Type
Stem Seal	Both	2011-15	122-1440	Positive Type,Viton Material,Top Hat Style
Guide	Both	2011-15	140-3154	0.2168 I.D.,1.740 Length,0.4358 O.D.

25 2493cc, (2.5L), DOHC, GAS, FI, 24 Valve, Vin V, G6BV, ""Delta"" HYU2.5-G6BV
 1999-01 V6 152 CID BORE - 80mm/3.15""

PART		YEARS	PART NO.	NOTES
Valve	Int	1999-01	10808	1.260 Head Diameter
	Exh	1999-01	10809	1.083 Head Diameter
Keeper	Both	1999-01	121-1102	1 RD Bead Type

(Cont'd) HYUNDAI / PASSENGER CAR OR TRUCK

2493cc, (2.5L), DOHC, GAS, FI, 24 Valve, Vin V, G6BV, ""Delta"" HYU2.5-G6BV **25**
 1999-01 V6 152 CID BORE - 80mm/3.15"" (cont.)

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1999-01	122-1366	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1999-01	140-8573	0.2360 I.D.,1.540 Length,0.4358 O.D.
	Exh	1999-01	140-8572	0.2360 I.D.,1.690 Length,0.4360 O.D.
Lifter	Both	1999-01	VL568	Hydraulic Bucket Type

2656cc, (2.7L), DOHC, GAS, FI, 24 Valve, Vin D, F, G6BA, ""Delta"" HYU2.7-G6BA **26**
 2001-09 V6 162 CID BORE - 86.7mm/3.41""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2001-09	10808	1.260 Head Diameter
	Exh	2001-09	10809	1.083 Head Diameter
Keeper	Both	2001-09	121-1102	1 RD Bead Type
Stem Seal	Both	2001-09	122-1366	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2001-09	140-8573	0.2360 I.D.,1.540 Length,0.4358 O.D.
	Exh	2001-09	140-8572	0.2360 I.D.,1.690 Length,0.4360 O.D.
Lifter	Both	2001-09	VL568	Hydraulic Bucket Type
Head Saver Shim		2001-09	230-2191L	Left,New Hgt. - 3.543; Min. Hgt. - 3.523
		2001-09	230-2191R	Right,New Hgt. - 3.543; Min. Hgt. - 3.523

2656cc, (2.7L), DOHC, GAS, FI, 24 Valve, Vin D, G6EA, ""Mu"" HYU2.7-G6EA **27**
 2007-09 V6 162 CID BORE - 86.7mm/3.41""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2007-09	121-1102	1 RD Bead Type
Stem Seal	Both	2007-09	122-1366	Positive Type,Viton Material,Metal Clad Style

2972cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin T, G6AT, ""Sigma"" HYU3.0-G6AT **28**
 1990-98 V6 181 CID BORE - 91.1mm/3.59""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1990-98	SB1750-61	1 $\frac{3}{4}$ O.D.,1.445T I.D.,0.3100 Depth
	Exh	1990-98	SB1562-69	1 $\frac{9}{16}$ O.D.,1.219 I.D.,0.3170 Depth,Also Available In Non-Magnetic (N) Material
		1990-98	SB1562-69N	1 $\frac{9}{16}$ O.D.,1.219 I.D.,0.3170 Depth,Optional LPG
Valve	Int	1990-98	10147	1.693 Head Diameter,0.030 Shorter Than OEM
		1990-98	10624	1.693 Head Diameter,OEM Length
	Exh	1990-98	10148	1.378 Head Diameter,0.030 Shorter Than OEM
		1990-98	10625	1.378 Head Diameter,OEM Length
Keeper	Both	1990-98	121-1039	1 RD Bead Type
Stem Seal	Both	1990-98	122-1086	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1990-98	140-7576	0.3150 I.D.,1.735 Length,0.5145 O.D.
	Exh	1990-98	140-7577	0.3150 I.D.,1.890 Length,0.5143 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both	1990-98	160-1079	1.960 Length
Lifter	Both	1990-98	VL141	Hydraulic Lash Adjuster Type
Rocker Components	Both	1990-98	180-1207	Roller Rocker Arm
Head Bolt Set		1990-98	220-1021	Torque To Yield,Services Engine
Head Saver Shim		1990-98	230-2006	New Hgt.- 3.3030 - 3.3110; Min. Hgt.- 3.2950, 2 Required

HYUNDAI / PASSENGER CAR OR TRUCK (Cont'd)

29 2972cc, (3.0L), SOHC, GAS, FI, 24 Valve, G6CT, ""Sigma / 6G7
Mitsubishi""

HYU3.0-XG300

2001-01

V6 181 CID

BORE - 91.1mm/3.59""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	2001-01	SB1312-64	1 ⁵ / ₁₆ O.D., 1.045 I.D., 0.3160 Depth
Valve	Int	2001-01	10810	1.378 Head Diameter
	Exh	2001-01	10811	1.201 Head Diameter
Keeper	Both	2001-01	121-1031	1 RD Bead Type
Stem Seal	Both	2001-01	122-1114	Positive Type, Viton Material, Metal Clad Style
Guide	Int	2001-01	140-8193	0.2600 I.D., 1.795 Length, 0.4755 O.D., +2 O/S Available
		2001-01	340-1013BR	0.2598 I.D., 1.795 Length, 0.4760 O.D., Optional Bronze Guide
	Exh	2001-01	140-8194	0.2600 I.D., 1.990 Length, 0.4755 O.D., +2 O/S Available
		2001-01	340-1014BR	0.2598 I.D., 1.990 Length, 0.4755 O.D., Optional Bronze Guide
Lifter	Both	2001-01	VL135	Hydraulic Lash Adjuster Type

30 3342cc, (3.3L), DOHC, GAS, FI, 24 Valve, Vin D, E, F, G6DB,
""Lambda/Lambda II MPi""

HYU3.3-G6DB

2006-11

V6 204 CID

BORE - 92mm/3.62""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2006-11	SB1500-56	1 ¹ / ₂ O.D., 1.275T I.D., 0.2500 Depth, NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	2006-11	SB1312-59	1 ⁵ / ₁₆ O.D., 1.044 I.D., 0.2730 Depth, NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2006-11	13286	1.417 Head Diameter
	Exh	2006-11	13287	1.220 Head Diameter
Keeper	Both	2006-11	121-1060	1 RD Bead Type
Stem Seal	Both	2006-11	122-1444	Positive Type, Viton Material, Top Hat Style
Guide	Both	2006-11	140-3152	0.2168 I.D., 1.655 Length, 0.4348 O.D.

31 3342cc, (3.3L), DOHC, GAS, FI, 24 Valve, Vin F, G, G6DH, ""Lambda II
GDi""

HYU3.3-G6DH

2012-19

V6 209 CID

BORE - 92mm/3.62""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2012-19	SB1500-56	1 ¹ / ₂ O.D., 1.275T I.D., 0.2500 Depth, NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	2012-19	SB1312-59	1 ⁵ / ₁₆ O.D., 1.044 I.D., 0.2730 Depth, NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2/15/2012	13286	1.417 Head Diameter
	Exh	2012-19	13287	1.220 Head Diameter
Keeper	Both	2012-19	121-1060	1 RD Bead Type
Stem Seal	Both	2012-19	122-1444	Positive Type, Viton Material, Top Hat Style
Guide	Both	2012-19	140-3152	0.2168 I.D., 1.655 Length, 0.4348 O.D.

32 3342cc, (3.3L), DOHC, GAS, FI, 24 Valve, Vin A, B, E, ""Genesis Lambda
II T-GDi TURBO""

HYU3.3-GENT

2017-20

V6 204 CID

BORE - 92mm/3.62""

PART		YEARS	PART NO.	NOTES
Keeper	Both	2017-20	121-1060	1 RD Bead Type
Stem Seal	Both	2017-20	122-1444	Positive Type, Viton Material, Top Hat Style

33 3467cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin E, G6AU, ""Sigma""

HYU3.5-G6AU

2002-06

V6 212 CID

BORE - 93mm/3.66""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	2002-06	SB1312-64	1 ⁵ / ₁₆ O.D., 1.045 I.D., 0.3160 Depth

(Cont'd) **HYUNDAI / PASSENGER CAR OR TRUCK**

3467cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin E, G6AU, ""Sigma"" HYU3.5-G6AU **33**
2002-06 V6 212 CID BORE - 93mm/3.66"" (cont.)

PART	YEARS	PART NO.	NOTES	
Valve	Int	2002-06	10810	1.378 Head Diameter
	Exh	2002-06	10811	1.201 Head Diameter
Keeper	Both	2002-06	121-1031	1 RD Bead Type
Stem Seal	Both	2002-06	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2002-06	140-8193	0.2600 I.D.,1.795 Length,0.4755 O.D.,+2 O/S Available
		2002-06	340-1013BR	0.2598 I.D.,1.795 Length,0.4760 O.D.,Optional Bronze Guide
	Exh	2002-06	140-8194	0.2600 I.D.,1.990 Length,0.4755 O.D.,+2 O/S Available
		2002-06	340-1014BR	0.2598 I.D.,1.990 Length,0.4755 O.D.,Optional Bronze Guide
Lifter	Both	2002-06	VL135	Hydraulic Lash Adjuster Type

3470cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin G, G6DB, ""Lambda II"" HYU3.5-G6DB **34**
2010-10 V6 212 CID BORE - 92mm/3.62""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2010-10	SB1500-56	1½ O.D.,1.275T I.D.,0.2500 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	2010-10	SB1312-59	1⅝ O.D.,1.044 I.D.,0.2730 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2010-10	13286	1.417 Head Diameter
	Exh	2010-10	13287	1.220 Head Diameter
Keeper	Both	2010-10	121-1060	1 RD Bead Type
Stem Seal	Both	2010-10	122-1444	Positive Type,Viton Material,Top Hat Style
Guide	Both	2010-10	140-3152	0.2168 I.D.,1.655 Length,0.4348 O.D.

3470cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin G, G6DC, ""Lambda II"" HYU3.5-G6DC **35**
2010-12 V6 212 CID BORE - 92mm/3.62""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2010-12	SB1500-56	1½ O.D.,1.275T I.D.,0.2500 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	2010-12	SB1312-59	1⅝ O.D.,1.044 I.D.,0.2730 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2010-12	13286	1.417 Head Diameter
	Exh	2010-12	13287	1.220 Head Diameter
Keeper	Both	2010-12	121-1060	1 RD Bead Type
Stem Seal	Both	2010-12	122-1444	Positive Type,Viton Material,Top Hat Style
Guide	Both	2010-12	140-3152	0.2168 I.D.,1.655 Length,0.4348 O.D.

3778cc, (3.8L), DOHC, GAS, FI, 24 Valve, Vin 3, C, F, G6DA, ""Lambda MPi"" HYU3.8-G6DA **36**
2006-12 V6 231 CID BORE - 96mm/3.78""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2006-12	SB1500-56	1½ O.D.,1.275T I.D.,0.2500 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	2006-12	SB1312-59	1⅝ O.D.,1.044 I.D.,0.2730 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2006-12	13286	1.417 Head Diameter
	Exh	2006-12	13287	1.220 Head Diameter
Keeper	Both	2006-12	121-1060	1 RD Bead Type
Stem Seal	Both	2006-12	122-1444	Positive Type,Viton Material,Top Hat Style
Guide	Both	2006-12	140-3152	0.2168 I.D.,1.655 Length,0.4348 O.D.

HYUNDAI / PASSENGER CAR OR TRUCK (Cont'd)

37 3778cc, (3.8L), DOHC, GAS, FI, 24 Valve, Vin D, E, H, J, G6DJ, ""Lambda
II MPI/GDI""
2009-21 V6 231 CID

HYU3.8-GJDJ
BORE - 96mm/3.78""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2012-21	SB1500-56	1½ O.D., 1.275T I.D., 0.2500 Depth, NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	2012-21	SB1312-59	1⅝ O.D., 1.044 I.D., 0.2730 Depth, NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2012-20	13286	1.417 Head Diameter
	Exh	2012-21	13287	1.220 Head Diameter
Keeper	Both	2012-20	121-1060	1 RD Bead Type
Stem Seal	Both	2012-20	122-1444	Positive Type, Viton Material, Top Hat Style
Guide	Both	2012-20	140-3152	0.2168 I.D., 1.655 Length, 0.4348 O.D.

I.H.C. / TRACTOR

Engine	Models	Line No.
3 Cylinder		
155 C.I., (2.5L), D155, Diesel, OHV, 6 Valve, ""NEUSS""		8
179 C.I., (2.9L), D179, Diesel, OHV, 6 Valve, ""NEUSS""		14
4 Cylinder		
60 C.I., (1.0L), C60, Gas, OHV, 8 Valve	Cub, Cub Lo-boy, Cub 154, Cub 185 Lo-boy, U1, UC60	1
113 C.I., (1.8L), C113, Gas, OHV, 8 Valve	C113	2
123 C.I., (2.0L), C123, Gas/LPG, OHV, 8 Valve, ""Power Unit/Tractor""	U123 Power Unit, Super A1 and AV1, Super C, 100, 100HC, 200	3
135 C.I., (2.2L), C135, Gas, OHV, 8 Valve	91, 93, 201, 330, 340, 404, 2404, Ind. Lo-boy, T5, TC5, T340, T340A - C135	4
146 C.I., (2.4L), C146, Gas, OHV, 8 Valve	424, 500, 500C, 660, 770, 780, 2424 - C146	5
152 C.I., (2.5L), C152, Gas, OHV, 8 Valve	122, H, HV, I4, IU4, O4, W, W4 -C152	6
153 C.I., (2.5L), C153, Gas, OHV, 8 Valve	93, 105, 203, 210, 225, 230, 275, 375, 444, 504, 2444, 2500, 2504, 3514, 4000 - C153	7
157 C.I., (2.6L), C157, Gas, OHV, 8 Valve	454, 2400A, 2400B, 2405B, 2410B, 2412B, 4500A, 4500B - C157	9
164 C.I., (2.7L), C164, Gas, OHV, 8 Valve	Super H, HV, W4, U164 - C164	10
166 C.I., (2.7L), D166, Diesel, OHV, 8 Valve	340, TD340, D166	11
169 C.I., (2.8L), C169, Gas, OHV, 8 Valve		12
175 C.I., (2.9L), C175, Gas, OHV, 8 Valve	375, 454, 464, 2400A, 2400B, 2405B, 2410B, 2412B, 3400A, 3514, T7 Series C175	13
188 C.I., (3.1L), D188, Diesel, OHV, 8 Valve	504, 2504, 3514, H25B, S7A, S7B - D188	15
200 C.I., (3.3L), C200, Gas, OHV, 8 Valve	544, 574, 674, 2500A, 2500B, 2505B, 2510B, 2514B, 2544, 3500A, 8000, T7 Series - C200	16
206 C.I., (3.4L), D206, Diesel, OHV, 8 Valve, ""NEUSS""		17
239 C.I., (3.9L), D239, Diesel, OHV, 8 Valve, ""NEUSS""		21
246 C.I., (4.0L), D246, Diesel, OHV, 8 Valve, ""NEUSS""		22
248 C.I., (4.0L), C248, Gas, OHV, 8 Valve	I6. IV6, M, MV, O6, O56, T6, U6, W6 - C248	23
264 C.I., (4.3L), C264, LPG, OHV, 8 Valve	400, W400	25
264 C.I., (4.3L), C264, Gas, OHV, 8 Valve	Super M, MV, W6, U264, 400, W400, T6-61 - C264	26
264 C.I., (4.3L), D264, Diesel, OHV, 8 Valve		27
268 C.I., (4.4L), D268, Diesel, OHV, 8 Valve, ""NEUSS""		28
281 C.I., (4.6L), C281, Gas, OHV, 8 Valve	450, W450 - C281	29
335 C.I., (5.5L), D335, Diesel, OHV, 8 Valve		38

Engine	Models	Line No.
6 Cylinder		
221 C.I., (3.6L), C221, Gas, OHV, 12 Valve	205, 260, 315, 460, 606, 4006, 3616 - C221	18
232 C.I., (3.8L), C232, Gas, OHV, 12 Valve	275, 375	19
236 C.I., (3.9L), D236, Diesel, OHV, 12 Valve	315, 460, 606, 2606, 3616, UD236, H30A, H30B, H30B-F, H30B-R - D236	20
263 C.I., (4.3L), C263, Gas, OHV, 12 Valve	50, 403, 560, 615, 656, 660, 706, 2656, 2706, 3600A, 3800A, 3850, UC263	24
282 C.I., (4.6L), C282, Gas/LPG, OHV, 12 Valve	403, 503 - C282	30
282 C.I., (4.6L), D282, Diesel, OHV, 12 Valve	403, 416, 422, 560, 615, 656, 660, 706, 2656, 2706, 3600A, 3800, 3850, H50A, H50B, H50C, UD282, TD6, TD9-62 Series - D282	31
291 C.I., (4.8L), C291, Gas, OHV, 12 Valve	616, 622, 666, 706, 756, 766, 2706, 2756, 9000, Hydro 70 - C291	32
301 C.I., (4.9L), C301, Gas, OHV, 12 Valve	C301	33
301 C.I., (4.9L), D301, Diesel, OHV, 12 Valve	403, 503, 715, H60B - D301	34
310 C.I., (5.1L), D310, Diesel, OHV, 12 Valve, ""NEUSS""		36
312 C.I., (5.1L), D312, Diesel, OHV, 12 Valve		37
358 C.I., (5.9L), D358, Diesel, OHV, 12 Valve, ""NEUSS""		40
360 C.I., (5.9L), D360, Diesel, OHV, 12 Valve		41
360 C.I., (5.9L), DT360, Diesel, OHV, 12 Valve, ""TURBO""		42
361 C.I., (5.9L), D361, Diesel, OHV, 12 Valve		43
361 C.I., (5.9L), DT361, Diesel, OHV, 12 Valve, ""TURBO""		44
407 C.I., (6.7L), D407, Diesel, OHV, 12 Valve		46
407 C.I., (6.7L), DT407, Diesel, OHV, 12 Valve, ""TURBO""		47
414 C.I., (6.8L), D414NA/DT414, Diesel, OHV, 12 Valve, ""N/A & TURBO""	IHC-D414	48
436 C.I., (7.1L), D436/DT436, Diesel, OHV, 12 Valve, ""N/A & TURBO""		49
466 C.I., (7.6L), DT466/B, DTI466B, Diesel, OHV, 12 Valve, ""TURBO""		50
530 C.I., (8.7L), 530P, Diesel, OHV, 12 Valve, ""Mechanical Inj.""		51
530 C.I., (8.7L), 530E, Diesel, OHV, 12 Valve, ""HEUI Electrical Inj""		52
691 C.I., (11.3L), D691, Diesel, OHV, 12 Valve	Industrial Engine	53
817 C.I., (13.4L), DT817, Diesel, OHV, 12 Valve, ""TURBO""	Crawler Tractor, Hauler	54
8 Cylinder		
304 C.I., (5.0L), V304, Gas, OHV, 16 Valve	815, 915 - V304	35
345 C.I., (5.6L), V345, Gas, OHV, 16 Valve	815, 915	39
392 C.I., (6.4L), V392, Gas, OHV, 16 Valve	915 - V392	45

60 C.I., (1.0L), C60, Gas, OHV, 8 Valve **C60 1**
 L4 60 CID BORE - 66.675mm/2.625""

PART	PART NO.	NOTES
Valve Seat Insert	Int	SB1187-1
	Exh	SB1000-1
Valve	Int	00230
	Exh	00485
Keeper	Both	121-1011

I.H.C. / TRACTOR (Cont'd)

1 60 C.I., (1.0L), C60, Gas, OHV, 8 Valve C60
 (cont.) L4 60 CID BORE - 66.675mm/2.625"

PART		PART NO.	NOTES
Guide	Both	140-1636	0.3120 I.D., 1.500 Length, 0.6265 O.D.
		140-7408	0.3120 I.D., 1.340 Length, 0.6263 O.D.
Spring	Both	160-1503	2.060 Length, OEM # 251262R1, NOTE: W/O Rotators

2 113 C.I., (1.8L), C113, Gas, OHV, 8 Valve C113
 L4 113 CID BORE - 76.2mm/3.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1437-3	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1187-1	1 ³ / ₁₆ O.D., 1.000 I.D., ³ / ₁₆ Depth, W/ 1.156 Valve Head Dia.
		SB1312-1	1 ⁵ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth, W/ 1.219 Valve Head Dia.
Valve	Int	00162	1.342 Head Diameter, 4.832 O.A.L., OEM # 42024D
		00313	1.342 Head Diameter, 4.941 O.A.L., OEM # 57797D; From S/N 255418
	Exh	00161	1.219 Head Diameter, 4.844 O.A.L., OEM # 42025DA
		00312	1.156 Head Diameter, 4.942 O.A.L., OEM # 57798D; From S/N 255418
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style
Guide	Both	140-1543	0.3435 I.D., 2.688 Length, 0.5648 O.D., NOTE: Early, Flanged
		140-1804	0.3440 I.D., 2.656 Length, 0.5645 O.D., NOTE: Late, Non-flanged
Spring	Both	160-1604	2.625 Length, OEM # 24544DA

3 123 C.I., (2.0L), C123, Gas/LPG, OHV, 8 Valve, "Power Unit/Tractor" C123
 L4 123 CID BORE - 79.375mm/3.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1437-3	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.342 Valve Head Dia., Gasoline, Dist. & Kerosene. To S/N 36000
		SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.500 Valve Head Dia., Gasoline From S/N 36000
	Exh	SB1187-1	1 ³ / ₁₆ O.D., 1.000 I.D., ³ / ₁₆ Depth, W/ 1.156 Valve Head Dia., Gasoline, Dist. & Kerosene To S/N 36000
		SB1437-3N	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, W/ 1.312 Valve Head Dia., Includes Gasoline & LPG
Valve	Int	00313	1.342 Head Diameter, To S/N 36000, Gasoline
		00504	1.500 Head Diameter, Gasoline & LPG, From S/N 36001
	Exh	00312	1.156 Head Diameter, To S/N 36000, Gasoline
		00503	1.312 Head Diameter, Gasoline, From S/N 36001
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style
Guide	Both	140-1543	0.3435 I.D., 2.688 Length, 0.5648 O.D., Early
		140-1804	0.3440 I.D., 2.656 Length, 0.5645 O.D.
Spring	Exh	160-1494	2.266 Length, OEM # 368450R1; NOTE: W/ Rotator
	Both	160-1604	2.625 Length, OEM # 24544DA; NOTE: W/O Rotators

4 135 C.I., (2.2L), C135, Gas, OHV, 8 Valve C135
 L4 135 CID BORE - 82.55mm/3.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

135 C.I., (2.2L), C135, Gas, OHV, 8 Valve
L4 135 CIDC135 **4**
BORE - 82.55mm/3.25''' (cont.)

PART		PART NO.	NOTES
Valve	Int	00504	1.500 Head Diameter
	Exh	00503	1.312 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style
Guide	Both	140-1804	0.3440 I.D., 2.656 Length, 0.5645 O.D.
Spring	Exh	160-1494	2.266 Length, OEM # 368450R1

146 C.I., (2.4L), C146, Gas, OHV, 8 Valve
L4 146 CIDC146 **5**
BORE - 85.725mm/3.375'''

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₁₆ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	00504	1.500 Head Diameter
	Exh	00503	1.312 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1037	Umbrella Type, Poly Material, Umbrella Style
		122-1270	Umbrella Type, Viton Material, Umbrella Style
Guide	Both	140-1804	0.3440 I.D., 2.656 Length, 0.5645 O.D.
Spring	Exh	160-1494	2.266 Length, OEM # 368450R1

152 C.I., (2.5L), C152, Gas, OHV, 8 Valve
L4 152 CIDC152 **6**
BORE - 85.725mm/3.375'''

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-1	1 ⁵ / ₁₆ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-1	1 ⁷ / ₁₆ O.D., 1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth
Valve	Int	00193	1.500 Head Diameter, 5.363 Overall Length, Gasoline
	Exh	00205	1.375 Head Diameter, 5.359 Overall Length, Gasoline
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style
Guide	Both	140-1544	0.3435 I.D., 2.625 Length, 0.5953 O.D.
		140-1545N	0.3435 I.D., 2.938 Length, 0.5953 O.D., W/ Step For Stem Seal 122-1014
Spring	Both	160-1604	2.625 Length, OEM # 24544DA

153 C.I., (2.5L), C153, Gas, OHV, 8 Valve
L4 153 CIDC153 **7**
BORE - 85.725mm/3.375'''

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₁₆ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	00504	1.500 Head Diameter
	Exh	00503	1.312 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style
Guide	Both	140-1804	0.3440 I.D., 2.656 Length, 0.5645 O.D.
Spring	Exh	160-1494	2.266 Length, OEM # 368450R1

I.H.C. / TRACTOR (Cont'd)**8** 155 C.I., (2.5L), D155, Diesel, OHV, 6 Valve, ""NEUSS""
L3 155 CIDIHC_NUESS_D155
BORE - 98.425mm/3.875""

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1750-4 SB1657E-1	1 ³ / ₄ O.D., 1 ⁷ / ₁₆ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material 1.657 O.D., 1.312T I.D., 0.3950 Depth, OEM # 349025R1
Valve	Int Exh	10766 10767S	1.689 Head Diameter 1.610 Head Diameter, Stellite Face
Keeper	Both	121-1126	1 RD Bead Type, OEM # 3055057R91
Guide	Both	140-7548	0.3937 I.D., 3.040 Length, 0.6328 O.D.
Spring	Both	160-1492	2.175 Length, OEM # 3055060R1
Injector Tubes and Components		240-1032	Copper Material, Injector Tube, OEM # 3055344R1

9 157 C.I., (2.6L), C157, Gas, OHV, 8 Valve
L4 157 CIDC157
BORE - 85.725mm/3.375""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-6	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., 7/32 Depth, Must Machine Seat Angle to 30 Degree
Valve	Int Exh	00601 01075S	1.781 Head Diameter 1.516 Head Diameter, Stellite Face
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Int Exh	140-6990 140-1747	0.3760 I.D., 2.240 Length, 0.6270 O.D., Special Alloy 0.3760 I.D., 2.420 Length, 0.6268 O.D., Special Alloy
Spring	Both	160-1290	2.438 Length

10 164 C.I., (2.7L), C164, Gas, OHV, 8 Valve
L4 164 CIDC164
BORE - 88.9mm/3.50""

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1562-1 SB1500-3	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., 1/4 Depth, +3 O/S Available
Valve	Int Exh	00193 00205	1.500 Head Diameter, 5.363 Overall Length, Gasoline 1.375 Head Diameter, 5.359 Overall Length, Gasoline
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style
Guide	Both	140-1544 140-1545N	0.3435 I.D., 2.625 Length, 0.5953 O.D. 0.3435 I.D., 2.938 Length, 0.5953 O.D., W/ Step For Stem Seal 122-1014
Spring	Both	160-1289	2.281 Length

11 166 C.I., (2.7L), D166, Diesel, OHV, 8 Valve
L4 166 CIDD166
BORE - 91.44mm/3.60""

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1687-2 SB1375-1	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., 7/32 Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int Exh	00593 00592	1.652 Head Diameter 1.300 Head Diameter
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1031	Positive Type, Poly Material, 2-Ring Style
Guide	Both	140-1881	0.3745 I.D., 2.844 Length, 0.6265 O.D., +2 O/S Available
Spring	Both	160-1290	2.438 Length, To Eng. # 2148

(Cont'd) I.H.C. / TRACTOR**169 C.I., (2.8L), C169, Gas, OHV, 8 Valve**
L4 169 CID**C169 12**
BORE - 90.4mm/3.559"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.500 Valve Head Dia., Gasoline
		SB1875-6	1 $\frac{7}{8}$ O.D., 1 $\frac{5}{8}$ I.D., $\frac{7}{32}$ Depth, W/ 1.781 Valve Head Dia., Must Machine Seat Angle To 30 Degree
	Exh	SB1500-1	1 $\frac{1}{2}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.375 Valve Head Dia., Gasoline
		SB1562-8	1 $\frac{9}{16}$ O.D., 1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth, W/ 1.516 Valve Head Dia.
Valve	Int	00601	1.781 Head Diameter, Except Gasoline
	Exh	01075S	1.516 Head Diameter, Stellite Face, Except Gasoline
Keeper	Both	121-1007	1 SQ Bead Type, Use W/ 1.871 & 1.516 Valve Head Dia.
Guide	Both	140-1545N	0.3435 I.D., 2.938 Length, 0.5953 O.D., Use W/ 1.500 & 1.375 Valve Head Dia.
		140-1747	0.3760 I.D., 2.420 Length, 0.6268 O.D., Special Alloy, Use W/ 1.781 & 1.516 Valve Head Dia.
Spring	Both	160-1289	2.281 Length

175 C.I., (2.9L), C175, Gas, OHV, 8 Valve
L4 175 CID**IHC_C175 13**
BORE - 90.4875mm/3.562"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-6	1 $\frac{7}{8}$ O.D., 1 $\frac{5}{8}$ I.D., $\frac{7}{32}$ Depth, W/ 1.781 Valve Head Dia., Must Machine Seat Angle To 30 Degree
	Exh	SB1562-8	1 $\frac{9}{16}$ O.D., 1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth, W/ 1.516 Valve Head Dia.
Valve	Int	00601	1.781 Head Diameter
	Exh	01075S	1.516 Head Diameter, Stellite Face
Keeper	Both	121-1007	1 SQ Bead Type, Use W/ 1.781 & 1.516 Valve Head Dia.
Stem Seal	Both	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style
Guide	Both	140-1545N	0.3435 I.D., 2.938 Length, 0.5953 O.D.
		140-1747	0.3760 I.D., 2.420 Length, 0.6268 O.D., Special Alloy, Use W/ 1.781 & 1.516 Valve Head Dia.
Spring	Both	160-1290	2.438 Length

179 C.I., (2.9L), D179, Diesel, OHV, 6 Valve, ""NEUSS""
L3 179 CID**IHC_NEUSS_D179 14**
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-4	1 $\frac{3}{4}$ O.D., 1 $\frac{7}{16}$ I.D., $\frac{1}{4}$ Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1657E-1	1.657 O.D., 1.312T I.D., 0.3950 Depth, OEM # 349025R1
Valve	Int	10766	1.689 Head Diameter
	Exh	10767S	1.610 Head Diameter, Stellite Face
Keeper	Both	121-1126	1 RD Bead Type, OEM # 3055057R91
Guide	Both	140-7548	0.3937 I.D., 3.040 Length, 0.6328 O.D.
Spring	Both	160-1492	2.175 Length, OEM # 3055060R1
Injector Tubes and Components		240-1032	Copper Material, Injector Tube, OEM # 3055344R1

188 C.I., (3.1L), D188, Diesel, OHV, 8 Valve
L4 188 CID**D188 15**
BORE - 93.6625mm/3.688"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-2	1 $\frac{11}{16}$ O.D., 1 $\frac{7}{16}$ I.D., $\frac{7}{32}$ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

I.H.C. / TRACTOR (Cont'd)

15 188 C.I., (3.1L), D188, Diesel, OHV, 8 Valve

D188

(cont.)

L4 188 CID

BORE - 93.6625mm/3.688"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1375-1	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int	00593	1.652 Head Diameter
	Exh	00592	1.300 Head Diameter
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1031	Positive Type, Poly Material, 2-Ring Style
Guide	Both	140-1881	0.3745 I.D., 2.844 Length, 0.6265 O.D., +2 O/S Available
Spring	Both	160-1290	2.438 Length

16 200 C.I., (3.3L), C200, Gas, OHV, 8 Valve

C200

L4 200 CID

BORE - 96.8375mm/3.813"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-6	1 $\frac{7}{8}$ O.D., 1 $\frac{5}{8}$ I.D., $\frac{7}{32}$ Depth, Must Machine Seat Angle to 30 Degree
	Exh	SB1562-8	1 $\frac{9}{16}$ O.D., 1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth
Valve	Int	00601	1.781 Head Diameter
	Exh	01075S	1.516 Head Diameter, Stellite Face
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Int	140-6990	0.3760 I.D., 2.240 Length, 0.6270 O.D., Special Alloy
	Exh	140-1747	0.3760 I.D., 2.420 Length, 0.6268 O.D., Special Alloy
Spring	Both	160-1290	2.438 Length

17 206 C.I., (3.4L), D206, Diesel, OHV, 8 Valve, ""NEUSS""

IHC_NEUSS_D206

L4 206 CID

BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-4	1 $\frac{3}{4}$ O.D., 1 $\frac{7}{16}$ I.D., $\frac{1}{4}$ Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1657E-1	1.657 O.D., 1.312T I.D., 0.3950 Depth, OEM # 349025R1
Valve	Int	10766	1.689 Head Diameter
	Exh	10767S	1.610 Head Diameter, Stellite Face
Keeper	Both	121-1126	1 RD Bead Type, OEM # 3055057R91
Guide	Both	140-7548	0.3937 I.D., 3.040 Length, 0.6328 O.D.
Spring	Both	160-1492	2.175 Length, OEM # 3055060R1
Injector Tubes and Components		240-1032	Copper Material, Injector Tube, OEM # 3055344R1

18 221 C.I., (3.6L), C221, Gas, OHV, 12 Valve

C221

L6 221 CID

BORE - 90.424mm/3.56"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-3	1 $\frac{11}{16}$ O.D., 1 $\frac{7}{16}$ I.D., $\frac{1}{4}$ Depth, Also Available Non-Magnetic (N) Material, W/ 1.656 Valve Head Dia.
		SB1875-6	1 $\frac{7}{8}$ O.D., 1 $\frac{5}{8}$ I.D., $\frac{7}{32}$ Depth, W/ 1.781 Valve Head Dia., Must Machine Seat Angle To 30 Degree
	Exh	SB1562-8	1 $\frac{9}{16}$ O.D., 1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth
Valve	Int	00600	1.656 Head Diameter, Except 205, 315 & 3616
		00601	1.781 Head Diameter, 205, 315 & 3616
	Exh	01075S	1.516 Head Diameter, Stellite Face
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
Guide	Int	140-6990	0.3760 I.D., 2.240 Length, 0.6270 O.D., Special Alloy

221 C.I., (3.6L), C221, Gas, OHV, 12 Valve
L6 221 CIDC221 **18**
BORE - 90.424mm/3.56" (cont.)

PART		PART NO.	NOTES
Guide	Exh	140-1747	0.3760 I.D., 2.420 Length, 0.6268 O.D., Special Alloy, W/Farmall 460 Use 140-1747 For Intake and Exhaust.
Spring	Both	160-1290	2.438 Length

232 C.I., (3.8L), C232, Gas, OHV, 12 Valve
L6 232 CIDIHC232 **19**
BORE - 93.9mm/3.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-1	1 $\frac{7}{8}$ O.D., 1 $\frac{5}{8}$ I.D., $\frac{1}{4}$ Depth, Also Available In Non-Magnetic (N) Material 1 $\frac{1}{2}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1500-1	
Valve	Int	00550	1.787 Head Diameter, 4 Groove, 4.899 Overall Length, W/ 0.090 Tip To Groove Length
		01260	1.787 Head Diameter, 4 Groove, 4.899 Overall Length, W/ 0.1825 Tip To Groove Length
	Exh	01442	1.787 Head Diameter, 1 Groove, 4.899 Overall Length
		00549	1.406 Head Diameter, 4 Groove, 4.892 Overall Length, W/ 0.088 Tip To Groove Length
		01325	1.406 Head Diameter, 4 Groove, 4.892 Overall Length, W/ 0.1825 Tip To Groove Length
		01441	1.406 Head Diameter, 1 Groove, 4.892 Overall Length
Keeper	Both	121-1007 121-1014	1 SQ Bead Type, $\frac{3}{8}$ Stem 4 RD Bead Type
Stem Seal	Both	122-1059 122-1075	Umbrella Type, GF Nylon Material, Umbrella Style Positive Type, Viton Material, Ring & Band Style
Guide	Both	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	160-1023	2.034 Length, W/O Rotator
Lifter	Both	VL89	Hydraulic Type
Rocker Components	Both	181-1028 183-1014 183-1028	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge Fulcrum, Short Bridge, When Replacing, Fulcrum # 183-1014 Must Also Be Used
Push Rod	Both	190-1429	9.594 Length
		190-1440	9.622 Length

236 C.I., (3.9L), D236, Diesel, OHV, 12 Valve
L6 236 CIDD236 **20**
BORE - 93.6625mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-2	1 $\frac{1}{16}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.652 Valve Head Dia.
		SB1750-2	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.679 Valve Head Dia.
	Exh	SB1375-1	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material, W/ 1.300 Valve Head Dia.
		SB1500-3	1 $\frac{1}{2}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{1}{4}$ Depth, +3 O/S Available, W/ 1.375 Valve Head Dia.
Valve	Int	00593	1.652 Head Diameter, 460, UD236 To S/N 2839
		00922	1.679 Head Diameter, 315, 606, 2606, 3616 From S/N 2840
	Exh	00592	1.300 Head Diameter, 460, UD236 To S/N 2839
		00921	1.375 Head Diameter, 315, 606, 2606, 3616 From S/N 2840
Keeper	Both	121-1007	1 SQ Bead Type

I.H.C. / TRACTOR (Cont'd)

20 236 C.I., (3.9L), D236, Diesel, OHV, 12 Valve D236
(cont.) L6 236 CID BORE - 93.6625mm/3.60"

PART		PART NO.	NOTES
Stem Seal	Both	122-1031	Positive Type,Poly Material,2-Ring Style
Guide	Both	140-1881	0.3745 I.D.,2.844 Length,0.6265 O.D.,+2 O/S Available
Spring	Exh	160-1290	2.438 Length,W/O Rotator, To S/N 5610

21 239 C.I., (3.9L), D239, Diesel, OHV, 8 Valve, ""NEUSS"" IHC_NEUSS_D239
L4 239 CID BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1750-4 SB1657E-1	1 $\frac{3}{4}$ O.D.,1 $\frac{7}{16}$ I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material 1.657 O.D.,1.312T I.D.,0.3950 Depth,OEM # 349025R1
Valve	Int Exh	10766 10767S	1.689 Head Diameter 1.610 Head Diameter,Stellite Face
Keeper	Both	121-1126	1 RD Bead Type,OEM # 3055057R91
Guide	Both	140-7548	0.3937 I.D.,3.040 Length,0.6328 O.D.
Spring	Both	160-1492	2.175 Length,OEM # 3055060R1
Injector Tubes and Components		240-1032	Copper Material,Injector Tube,OEM # 3055344R1

22 246 C.I., (4.0L), D246, Diesel, OHV, 8 Valve, ""NEUSS"" IHC_NEUSS_D246
L4 246 CID BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1750-4 SB1657E-1	1 $\frac{3}{4}$ O.D.,1 $\frac{7}{16}$ I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material,For Cylinder Head W/O Factory Installed Seat 1.657 O.D.,1.312T I.D.,0.3950 Depth,OEM # 349025R1
Valve	Int Exh	10766 10767S	1.689 Head Diameter 1.610 Head Diameter,Stellite Face
Keeper	Both	121-1126	1 RD Bead Type,OEM # 3055057R91
Guide	Both	140-7548	0.3937 I.D.,3.040 Length,0.6328 O.D.
Spring	Both	160-1492	2.175 Length,OEM # 3055060R1
Injector Tubes and Components		240-1032	Copper Material,Injector Tube,OEM # 3055344R1

23 248 C.I., (4.0L), C248, Gas, OHV, 8 Valve C248
L4 248 CID BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1875-1 SB1812-7	1 $\frac{7}{8}$ O.D.,1 $\frac{5}{8}$ I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material 1 $\frac{13}{16}$ O.D.,1 $\frac{7}{16}$ I.D., $\frac{1}{4}$ Depth
Valve	Int Exh	00204 00203	1.812 Head Diameter,Gasoline 1.656 Head Diameter,Gasoline
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1031	Positive Type,Poly Material,2-Ring Style
Guide	Both	140-1546 140-1547N	0.3745 I.D.,2.750 Length,0.6893 O.D.,Distillate 0.3745 I.D.,3.219 Length,0.6895 O.D.
Spring	Both	160-1287 160-1288	2.681 Length,W/ Rotator 2.875 Length,W/O Rotator

24 263 C.I., (4.3L), C263, Gas, OHV, 12 Valve C263
L6 263 CID BORE - 90.4875mm/3.563"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-6	1 $\frac{7}{8}$ O.D.,1 $\frac{5}{8}$ I.D., $\frac{7}{32}$ Depth,W/ 1.781 Valve Head Dia., Must Machine Seat Angle To 30 Degree

(Cont'd) I.H.C. / TRACTOR**263 C.I., (4.3L), C263, Gas, OHV, 12 Valve**
L6 263 CID**C263 24**
BORE - 90.4875mm/3.563"" (cont.)

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1562-8	1 ⁹ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth, W/ 1.516 Valve Head Dia.
Valve	Int	00600	1.656 Head Diameter, 403 Combine To S/N 7087, UC263 To S/N 56635, 560, 660 Tractor
		00601	1.781 Head Diameter, 403 Combine To S/N 7087, UC263 From S/N 56635, 615 Combine, 50 Harvester
	Exh	01075S	1.516 Head Diameter, Stellite Face, 50, 403, 560, 615, 656, 660, 706, UC263, 2656, 2706, 3600A, 3800A, 3850
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
Guide	Int	140-6990	0.3760 I.D., 2.240 Length, 0.6270 O.D., Special Alloy, Use on 403, 615, 50, UC263 Aft S/N 95245.
	Both	140-1747	0.3760 I.D., 2.420 Length, 0.6268 O.D., Special Alloy, Exhaust All, Intake on 560, 660, UC263 Up To S/N 95245
Spring	Both	160-1290	2.438 Length

264 C.I., (4.3L), C264, LPG, OHV, 8 Valve
L4 264 CID**C264 LPG 25**
BORE - 101.6mm/4.00""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-1	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1812-7	1 ¹³ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., ¹ / ₄ Depth
Valve	Int	00428	1.812 Head Diameter, To S/N 161408
	Exh	00427S	1.656 Head Diameter, Stellite Face, To S/N 161408
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1031	Positive Type, Poly Material, 2-Ring Style
Guide	Both	140-1547N	0.3745 I.D., 3.219 Length, 0.6895 O.D.

264 C.I., (4.3L), C264, Gas, OHV, 8 Valve
L4 264 CID**C264 G 26**
BORE - 101.6mm/4.00""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-1	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1812-7	1 ¹³ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., ¹ / ₄ Depth
Valve	Int	00204	1.812 Head Diameter, 5.848 Overall Length, Super M, MV, W6, U264 Gasoline
		00428	1.812 Head Diameter, 6.083 Overall Length, 400, W400 To S/N 161365, T6-61 Gasoline
	Exh	00203	1.656 Head Diameter, 5.844 Overall Length, Super M, MV, W6, U264 Gasoline
		00427S	1.656 Head Diameter, Stellite Face, 6.083 Overall Length, 400, W400 To S/N 161365, T6-61 Gasoline
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1031	Positive Type, Poly Material, 2-Ring Style
Guide	Both	140-1546	0.3745 I.D., 2.750 Length, 0.6893 O.D.
		140-1547N	0.3745 I.D., 3.219 Length, 0.6895 O.D.
Spring	Both	160-1287	2.681 Length, W/ Rotator

264 C.I., (4.3L), D264, Diesel, OHV, 8 Valve
L4 264 CID**D264 27**
BORE - 101.6mm/4.00""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

I.H.C. / TRACTOR (Cont'd)

27 264 C.I., (4.3L), D264, Diesel, OHV, 8 Valve D264
(cont.) L4 264 CID BORE - 101.6mm/4.00"

PART		PART NO.	NOTES
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-1579	0.3745 I.D.,3.750 Length,0.6888 O.D.
		140-4941	0.3120 I.D.,2.063 Length,0.5645 O.D.

28 268 C.I., (4.4L), D268, Diesel, OHV, 8 Valve, ""NEUSS"" IHC_NEUSS_D268
L4 268 CID BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-4	1¼ O.D.,17/16 I.D.,¼ Depth,Also Available In Non-Magnetic (N) Material,For Cylinder Head W/O Factory Installed Seat
	Exh	SB1657E-1	1.657 O.D.,1.312T I.D.,0.3950 Depth,OEM # 349025R1
Valve	Int	10766	1.689 Head Diameter
	Exh	10767S	1.610 Head Diameter,Stellite Face
Keeper	Both	121-1126	1 RD Bead Type,OEM # 3055057R91
Guide	Both	140-7548	0.3937 I.D.,3.040 Length,0.6328 O.D.
Spring	Both	160-1492	2.175 Length,OEM # 3055060R1
Injector Tubes and Components		240-1032	Copper Material,Injector Tube,OEM # 3055344R1

29 281 C.I., (4.6L), C281, Gas, OHV, 8 Valve C281
L4 281 CID BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-1	17/8 O.D.,15/8 I.D.,¼ Depth,Also Available In Non-Magnetic (N) Material
	Exh	SB1812-7	113/16 O.D.,17/16 I.D.,¼ Depth
Valve	Int	00428	1.812 Head Diameter,Gasoline
	Exh	00427S	1.656 Head Diameter,Stellite Face,Gasoline
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1031	Positive Type,Poly Material,2-Ring Style
Guide	Both	140-1546	0.3745 I.D.,2.750 Length,0.6893 O.D.
		140-1547N	0.3745 I.D.,3.219 Length,0.6895 O.D.
Spring	Both	160-1287	2.681 Length,W/ Rotator

30 282 C.I., (4.6L), C282, Gas/LPG, OHV, 12 Valve C282
L6 282 CID BORE - 93.6625mm/3.688"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-2	111/16 O.D.,17/16 I.D.,7/32 Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.656 Valve Head Dia.
		SB1875-6	17/8 O.D.,15/8 I.D.,7/32 Depth,W/ 1.781 Valve Head Dia., Must Machine Seat Angle To 30 Degree
		SB1562-8	19/16 O.D.,15/16 I.D.,7/32 Depth,W/ 1.516 Valve Head Dia.
Valve	Int	00600	1.656 Head Diameter,403 To S/N 7087
		00601	1.781 Head Diameter,503 To S/N 2133, 403 From S/N 7087.1.781, 503 From S/N 2133
	Exh	01075S	1.516 Head Diameter,Stellite Face,W/ Seal Groove
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1007	Umbrella Type,Nitrile Material,Umbrella Style
Guide	Exh	140-6990	0.3760 I.D.,2.240 Length,0.6270 O.D.,Special Alloy
	Both	140-1747	0.3760 I.D.,2.420 Length,0.6268 O.D.,Special Alloy
Spring	Both	160-1290	2.438 Length,To Eng. # 2148

282 C.I., (4.6L), D282, Diesel, OHV, 12 Valve
L6 282 CID**D282 31**
BORE - 93.6625mm/3.688"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.652 Valve Head Dia.
		SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.679 Valve Head Dia.
	Exh	SB1375-1	1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material, W/ 1.300 Valve Head Dia.
		SB1500-3	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., ¹ / ₄ Depth, +3 O/S Available, W/ 1.375 Valve Head Dia.
Valve	Int	00593	1.652 Head Diameter, H50A, H50B, H50C, UD282 To S/N 3623. 560, 660, TD6, TD9-62 Series To S/N 40698
		00922	1.679 Head Diameter, 403, 416, 422, 615, 656, 706, 2656, 2706, 3600A, 3800, 3850. All H50A, H50B, H50C, UD282 From S/N 3624. 560, 660, TD6, TC9-62 Series From S/N 40699
	Exh	00592	1.300 Head Diameter, H50A, H50B, H50C, UD282 To S/N 3623. 560, 660, TD6, TD9-62 Series To S/N 40698
		00921	1.375 Head Diameter, 403, 416, 422, 615, 656, 706, 2656, 2706, 3600A, 3800, 3850 All H50A, H50B, H50C, UD282 From S/N 3624. 560, 660, TD6, TC9-62 Series From S/N 40699.
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Int	122-1031	Positive Type, Poly Material, 2-Ring Style, Exc. 656D, 706D, 2656D, 27065D
Guide	Both	140-1881	0.3745 I.D., 2.844 Length, 0.6265 O.D., +2 O/S Available
Spring	Exh	160-1290	2.438 Length, W/O Rotator
		160-1300	2.265 Length, W/ Rotator

291 C.I., (4.8L), C291, Gas, OHV, 12 Valve
L6 291 CID**C291 32**
BORE - 93.9mm/3.697"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-6	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., ⁷ / ₃₂ Depth, Must Machine Seat Angle to 30 Degree
	Exh	SB1562-8	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth
Valve	Int	00601	1.781 Head Diameter
	Exh	01075S	1.516 Head Diameter, Stellite Face, W/ Seal Groove
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1007	Umbrella Type, Nitrile Material, Umbrella Style
Guide	Int	140-6990	0.3760 I.D., 2.240 Length, 0.6270 O.D., Special Alloy
	Exh	140-1747	0.3760 I.D., 2.420 Length, 0.6268 O.D., Special Alloy
Spring	Both	160-1290	2.438 Length

301 C.I., (4.9L), C301, Gas, OHV, 12 Valve
L6 301 CID**C301 33**
BORE - 96.8375mm/3.813"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-6	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., ⁷ / ₃₂ Depth, Must Machine Seat Angle to 30 Degree
	Exh	SB1562-8	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth
Valve	Int	00601	1.781 Head Diameter
	Exh	01075S	1.516 Head Diameter, Stellite Face
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1007	Umbrella Type, Nitrile Material, Umbrella Style
Guide	Int	140-6990	0.3760 I.D., 2.240 Length, 0.6270 O.D., Special Alloy
	Exh	140-1747	0.3760 I.D., 2.420 Length, 0.6268 O.D., Special Alloy
Spring	Both	160-1290	2.438 Length

I.H.C. / TRACTOR (Cont'd)**34 301 C.I., (4.9L), D301, Diesel, OHV, 12 Valve****D301**

L6 301 CID

BORE - 96.8375mm/3.813"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.679 Valve Head Dia.
	Exh	SB1500-3	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., ¹ / ₄ Depth, +3 O/S Available
Valve	Int	00922	1.679 Head Diameter
	Exh	00921	1.375 Head Diameter
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Int	122-1041	Umbrella Type, Poly Material, Umbrella Style
Guide	Both	140-1881	0.3745 I.D., 2.844 Length, 0.6265 O.D., +2 O/S Available
Spring	Both	160-1290	2.438 Length

35 304 C.I., (5.0L), V304, Gas, OHV, 16 Valve**V304**

V8 304 CID

BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1678E-1	1.678 O.D., 1.446 I.D., 0.3120 Depth
Valve	Int	00560	1.969 Head Diameter
	Exh	00559S	1.609 Head Diameter, Stellite Face
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-7876	0.3745 I.D., 2.906 Length, 0.6888 O.D.
Spring	Both	160-1206	2.050 Length, W/ Damper
Push Rod	Both	190-1370	9.779 Length, Note: Ball Ends, W/ Boat Type Rocker Arm

36 310 C.I., (5.1L), D310, Diesel, OHV, 12 Valve, ""NEUSS""**IHC_NEUSS_D310**

L6 310 CID

BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-4	1 ³ / ₄ O.D., 1 ⁷ / ₁₆ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1657E-1	1.657 O.D., 1.312T I.D., 0.3950 Depth, OEM # 349025R1
Valve	Int	10766	1.689 Head Diameter
	Exh	10767S	1.610 Head Diameter, Stellite Face
Keeper	Both	121-1126	1 RD Bead Type, OEM # 3055057R91
Guide	Both	140-7548	0.3937 I.D., 3.040 Length, 0.6328 O.D.
Spring	Both	160-1492	2.175 Length, OEM # 3055060R1
Injector Tubes and Components		240-1032	Copper Material, Injector Tube, OEM # 3055344R1

37 312 C.I., (5.1L), D312, Diesel, OHV, 12 Valve**IHC_D312**

L6 312 CID

BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1782E-1	1.782 O.D., 1.490T I.D., 0.3400 Depth, +15 O/S Available, OEM # 671602C1 & 675441C
	Exh	SB1536E-2N	1.536 O.D., 1.255T I.D., 0.3585 Depth, +15 O/S Available, OEM # 671599C1 & 675576C1
Valve	Int	01520	1.710 Head Diameter
	Exh	01519	1.455 Head Diameter
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-7431	0.3745 I.D., 2.750 Length, 0.6263 O.D., Spiral I.D. Toward Combustion, OEM # 675439C1
		140-7431SA	0.3745 I.D., 2.750 Length, 0.6263 O.D., Spiral I.D. Toward Combustion, ""Special Alloy"", For Ultra Low Sulfur Diesel
Spring	Both	160-1190	2.400 Length

(Cont'd) I.H.C. / TRACTOR**335 C.I., (5.5L), D335, Diesel, OHV, 8 Valve**
L4 335 CIDD335 **38**
BORE - 111.76mm/4.40"

PART		PART NO.	NOTES
Guide	Both	140-1578	0.4050 I.D.,3.970 Length,0.7520 O.D.

345 C.I., (5.6L), V345, Gas, OHV, 16 Valve
V8 345 CIDV345 **39**
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1678E-1	1.678 O.D.,1.446 I.D.,0.3120 Depth
Valve	Int	00560	1.969 Head Diameter
	Exh	00559S	1.609 Head Diameter,Stellite Face
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-7876	0.3745 I.D.,2.906 Length,0.6888 O.D.
Spring	Both	160-1206	2.050 Length,W/ Damper

358 C.I., (5.9L), D358, Diesel, OHV, 12 Valve, ""NEUSS""
L6 358 CIDIHC_NEUSS_D358 **40**
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-4	1¾ O.D.,1⅞ I.D.,¼ Depth,Also Available In Non-Magnetic (N) Material,For Cylinder Head W/O Factory Installed Seat
	Exh	SB1657E-1	1.657 O.D.,1.312T I.D.,0.3950 Depth,OEM # 349025R1
Valve	Int	10766	1.689 Head Diameter
	Exh	10767S	1.610 Head Diameter,Stellite Face
Keeper	Both	121-1126	1 RD Bead Type,OEM # 3055057R91
Guide	Both	140-7548	0.3937 I.D.,3.040 Length,0.6328 O.D.
Spring	Both	160-1492	2.175 Length,OEM # 3055060R1
Injector Tubes and Components		240-1032	Copper Material,Injector Tube,OEM # 3055344R1

360 C.I., (5.9L), D360, Diesel, OHV, 12 Valve
L6 360 CIDD360 **41**
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1782E-1	1.782 O.D.,1.490T I.D.,0.3400 Depth,+15 O/S Available,OEM # 671602C1 & 675441C
	Exh	SB1536E-2N	1.536 O.D.,1.255T I.D.,0.3585 Depth,+15 O/S Available,OEM # 671599C1 & 675576C1
Valve	Int	01520	1.710 Head Diameter
	Exh	01519	1.455 Head Diameter
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1301	Positive Type,Viton Material,Top Hat Style,Orange Seal
Guide	Both	140-7431	0.3745 I.D.,2.750 Length,0.6263 O.D.,Spiral I.D. Toward Combustion,OEM # 675439C1
		140-7431SA	0.3745 I.D.,2.750 Length,0.6263 O.D.,Spiral I.D. Toward Combustion, ""Special Alloy"", For Ultra Low Sulfur Diesel
Spring	Both	160-1190	2.400 Length
Injector Tubes and Components		240-1024	Brass Material,Injector Tube,OEM # 675442C1

360 C.I., (5.9L), DT360, Diesel, OHV, 12 Valve, ""TURBO""
L6 360 CIDIHC_DT360 **42**
BORE - 101.78mm/4.007"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1782E-1	1.782 O.D.,1.490T I.D.,0.3400 Depth,+15 O/S Available,OEM # 671602C1 & 675441C

I.H.C. / TRACTOR (Cont'd)

42 360 C.I., (5.9L), DT360, Diesel, OHV, 12 Valve, ""TURBO"" IHC_DT360
(cont.) L6 360 CID BORE - 101.78mm/4.007""

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1536E-2N	1.536 O.D., 1.255T I.D., 0.3585 Depth, +15 O/S Available, OEM # 671599C1 & 675576C1
Valve	Int	01520	1.710 Head Diameter
	Exh	01574S	1.455 Head Diameter, Stellite Face
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1301 122-1426	Positive Type, Viton Material, Top Hat Style, Orange Seal Umbrella Type, Nylon Material, Oil Shield Style, OEM # 1824683C1, NOTE: Use With 161-1046 Rotator
Guide	Both	140-7431	0.3745 I.D., 2.750 Length, 0.6263 O.D., Spiral I.D. Toward Combustion, OEM # 675439C1
		140-7431SA	0.3745 I.D., 2.750 Length, 0.6263 O.D., Spiral I.D. Toward Combustion, ""Special Alloy"", For Ultra Low Sulfur Diesel
Spring	Both	160-1190	2.400 Length
Rotator	Both	161-1046	OEM # 1824680C1, NOTE: Includes Oil Shield 1824683C1
Injector Tubes and Components		240-1024	Brass Material, Injector Tube, OEM # 675442C1

43 361 C.I., (5.9L), D361, Diesel, OHV, 12 Valve D361
L6 361 CID BORE - 104.775mm/4.125""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-18	2.000 O.D., 1 ³ / ₄ I.D., 5 ⁵ / ₁₆ Depth
	Exh	SB1657E-1	1.657 O.D., 1.312T I.D., 0.3950 Depth
		SB1727E-2N	1.727 O.D., 1.310T I.D., 0.3800 Depth, OEM # 670301C1
Valve	Int	00924	1.940 Head Diameter
	Exh	00923	1.625 Head Diameter
Keeper	Both	121-1006	2 RD Bead Type
Guide	Both	140-1957	0.4375 I.D., 3.172 Length, 0.6890 O.D.
Spring	Int	160-1285	2.343 Length, Inner
		160-1286	2.562 Length, Outer
	Exh	160-1404	1.982 Length, Inner, W/ Rotator
		160-1405	2.333 Length, Outer, W/ Rotator
Injector Tubes and Components		240-1031	Brass Material, Injector Tube, OEM # 326503R1

44 361 C.I., (5.9L), DT361, Diesel, OHV, 12 Valve, ""TURBO"" DT361
L6 361 CID BORE - 104.775mm/4.125""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-18	2.000 O.D., 1 ³ / ₄ I.D., 5 ⁵ / ₁₆ Depth
	Exh	SB1727E-2N	1.727 O.D., 1.310T I.D., 0.3800 Depth, OEM # 670301C1
Valve	Int	00924	1.940 Head Diameter
	Exh	00923	1.625 Head Diameter
Keeper	Both	121-1006	2 RD Bead Type
Guide	Both	140-1957	0.4375 I.D., 3.172 Length, 0.6890 O.D.
Spring	Int	160-1285	2.343 Length, Inner
		160-1286	2.562 Length, Outer
	Exh	160-1404	1.982 Length, Inner, W/ Rotator
		160-1405	2.333 Length, Outer, W/ Rotator
Injector Tubes and Components		240-1031	Brass Material, Injector Tube, OEM # 326503R1

392 C.I., (6.4L), V392, Gas, OHV, 16 Valve
V8 392 CIDV392 **45**
BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2125-3	2 $\frac{1}{8}$ O.D., 1 $\frac{15}{16}$ I.D., $\frac{3}{16}$ Depth
	Exh	SB1803E-1	1.803 O.D., 1.571 I.D., 0.3120 Depth
Valve	Int	01152	2.078 Head Diameter
	Exh	01133S	1.734 Head Diameter, Stellite Face
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Int	140-7876	0.3745 I.D., 2.906 Length, 0.6888 O.D.
	Exh	140-1968	0.4190 I.D., 2.906 Length, 0.6890 O.D., OEM Style
Spring	Both	160-1206	2.050 Length, W/ Damper

407 C.I., (6.7L), D407, Diesel, OHV, 12 Valve
L6 407 CIDIHC_D407 **46**
BORE - 109.753mm/4.321"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-18	2.000 O.D., 1 $\frac{3}{4}$ I.D., $\frac{5}{16}$ Depth
	Exh	SB1727E-2N	1.727 O.D., 1.310T I.D., 0.3800 Depth, OEM # 670301C1
Valve	Int	00924	1.940 Head Diameter
	Exh	00923	1.625 Head Diameter
Keeper	Both	121-1006	2 RD Bead Type
Guide	Both	140-1957	0.4375 I.D., 3.172 Length, 0.6890 O.D.
Spring	Int	160-1285	2.343 Length, Inner
		160-1286	2.562 Length, Outer
	Exh	160-1404	1.982 Length, Inner, W/ Rotator
		160-1405	2.333 Length, Outer, W/ Rotator
Injector Tubes and Components		240-1031	Brass Material, Injector Tube, OEM # 326503R1

407 C.I., (6.7L), DT407, Diesel, OHV, 12 Valve, ""TURBO""
L6 407 CIDIHC_DT407 **47**
BORE - 109.753mm/4.321"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-18	2.000 O.D., 1 $\frac{3}{4}$ I.D., $\frac{5}{16}$ Depth
	Exh	SB1727E-2N	1.727 O.D., 1.310T I.D., 0.3800 Depth, OEM # 670301C1
Valve	Int	00924	1.940 Head Diameter
	Exh	00923	1.625 Head Diameter
Keeper	Both	121-1006	2 RD Bead Type
Guide	Both	140-1957	0.4375 I.D., 3.172 Length, 0.6890 O.D.
Spring	Int	160-1285	2.343 Length, Inner
		160-1286	2.562 Length, Outer
	Exh	160-1404	1.982 Length, Inner, W/ Rotator
		160-1405	2.333 Length, Outer, W/ Rotator
Injector Tubes and Components		240-1031	Brass Material, Injector Tube, OEM # 326503R1

414 C.I., (6.8L), D414NA/DT414, Diesel, OHV, 12 Valve, ""N/A & TURBO""
L6 414 CIDDT414 **48**
BORE - 109.22mm/4.30"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2001E-1	2.001 O.D., 1.712T I.D., 0.3860 Depth, +10, & +13 O/S Available, OEM # 671559C1, 675043C1
	Exh	SB1628E-1N	1.628 O.D., 1.348T I.D., 0.3650 Depth, +10, +13 O/S Available, OEM # 671563C1, 675450C1
Valve	Int	01423	1.970 Head Diameter, Early Heads That Use C1 Or C2 Valves W/ Small Margins Will Need The Seats Recessed Or Valves Refaced To Attain Correct Installed Height

I.H.C. / TRACTOR (Cont'd)

48 414 C.I., (6.8L), D414NA/DT414, Diesel, OHV, 12 Valve, ""N/A & TURBO"" DT414
 (cont.) L6 414 CID BORE - 109.22mm/4.30""

PART		PART NO.	NOTES
Valve	Exh	01422S	1.600 Head Diameter,Stellite Face,Early Heads That Use C1 Or C2 Valves W/ Small Margins Will Need The Seats Recessed Or Valves Refaced To Attain Correct Installed Height
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Exh	122-1177	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 681234C1
Guide	Both	140-7431	0.3745 I.D.,2.750 Length,0.6263 O.D.,Spiral I.D. Toward Combustion,OEM # 675439C1, To 1989
		140-7431SA	0.3745 I.D.,2.750 Length,0.6263 O.D.,Spiral I.D. Toward Combustion,""Special Alloy"", For Ultra Low Sulfur Diesel
		140-8188	0.3745 I.D.,2.610 Length,0.6263 O.D.,Spiral I.D. Toward Combustion,OEM # 1815264C1, From 1990
		140-8188SA	0.3745 I.D.,2.610 Length,0.6263 O.D.,Spiral I.D. Toward Combustion,""Special Alloy"", For Ultra Low Sulfur Diesel
Spring	Both	160-1190	2.400 Length
Rotator	Exh	161-1033	W/ Oil Shield,OEM # 1811581
Injector Tubes and Components		240-1024	Brass Material,Injector Tube,OEM # 675442C1

49 436 C.I., (7.1L), D436/DT436, Diesel, OHV, 12 Valve, ""N/A & TURBO"" D436
 L6 436 CID BORE - 109.22mm/4.30""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2001E-1	2.001 O.D.,1.712T I.D.,0.3860 Depth,+10, & +13 O/S Available,OEM # 671559C1, 675043C1
	Exh	SB1628E-1N	1.628 O.D.,1.348T I.D.,0.3650 Depth,+10, +13 O/S Available,OEM # 671563C1. 675450C1
Valve	Int	01423	1.970 Head Diameter,Early Heads That Use C1 Or C2 Valves W/ Small Margins Will Need The Seats Recessed Or Valves Refaced To Attain Correct Installed Height
	Exh	01422S	1.600 Head Diameter,Stellite Face,Early Heads That Use C1 Or C2 Valves W/ Small Margins Will Need The Seats Recessed Or Valves Refaced To Attain Correct Installed Height
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Exh	122-1177	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 681234C1
Guide	Both	140-7431	0.3745 I.D.,2.750 Length,0.6263 O.D.,Spiral I.D. Toward Combustion,OEM # 675439C1, To 1989
		140-7431SA	0.3745 I.D.,2.750 Length,0.6263 O.D.,Spiral I.D. Toward Combustion,""Special Alloy"", For Ultra Low Sulfur Diesel
		140-8188	0.3745 I.D.,2.610 Length,0.6263 O.D.,Spiral I.D. Toward Combustion,OEM # 1815264C1, From 1990
		140-8188SA	0.3745 I.D.,2.610 Length,0.6263 O.D.,Spiral I.D. Toward Combustion,""Special Alloy"", For Ultra Low Sulfur Diesel
Spring	Both	160-1190	2.400 Length,OEM # 682064
Rotator	Exh	161-1033	W/ Oil Shield,OEM # 1811581
Injector Tubes and Components		240-1024	Brass Material,Injector Tube,OEM # 675442C1

50 466 C.I., (7.6L), DT466/B, DTI466B, Diesel, OHV, 12 Valve, ""TURBO"" IHC_D466
 L6 466 CID BORE - 109.22mm/4.30""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2001E-1	2.001 O.D.,1.712T I.D.,0.3860 Depth,+10, & +13 O/S Available
	Exh	SB1628E-1N	1.628 O.D.,1.348T I.D.,0.3650 Depth,+10, +13 O/S Available

(Cont'd) I.H.C. / TRACTOR

466 C.I., (7.6L), DT466/B, DTI466B, Diesel, OHV, 12 Valve, ""TURBO"" IHC_D466 **50**
 L6 466 CID BORE - 109.22mm/4.30"" (cont.)

PART		PART NO.	NOTES
Valve	Int	01423	1.970 Head Diameter, Early Heads That Use C1 Or C2 Valves W/ Small Margins Will Need The Seats Recessed Or Valves Refaced To Attain Correct Installed Height
	Exh	01422S	1.600 Head Diameter, Stellite Face, Early Heads That Use C1 Or C2 Valves W/ Small Margins Will Need The Seats Recessed Or Valves Refaced To Attain Correct Installed Height
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Exh	122-1177	Umbrella Type, Nylon Material, Oil Shield Style, OEM # 681234C1
	Both	122-1301	Positive Type, Viton Material, Top Hat Style, Orange Seal, OEM # 1815374-C1, 1.290 Height, Use W/ Long Guide 140-7431
		122-1320	Positive Type, Viton Material, Top Hat Style, Green Seal, W/ 3/8 Stem Dia., OEM # 1823925-C1, 1.120 Height. Use W/ Short Guide 140-8188
Guide	Both	140-7431	0.3745 I.D., 2.750 Length, 0.6263 O.D., Spiral I.D. Toward Combustion, OEM # 675439C1
		140-7431SA	0.3745 I.D., 2.750 Length, 0.6263 O.D., Spiral I.D. Toward Combustion, ""Special Alloy"", For Ultra Low Sulfur Diesel
		140-8188	0.3745 I.D., 2.610 Length, 0.6263 O.D., Spiral I.D. Toward Combustion, OEM # 1815264C1
		140-8188SA	0.3745 I.D., 2.610 Length, 0.6263 O.D., Spiral I.D. Toward Combustion, ""Special Alloy"", For Ultra Low Sulfur Diesel
Spring	Both	160-1190	2.400 Length
Rotator	Exh	161-1033	W/ Oil Shield, To S/N 532980
Lifter	Both	170-1012	Mechanical Type, 0.997 Body Dia., Non-Roller, TO S/N 140086, OEM # 911776-R3
Injector Tubes and Components		240-1024	Brass Material, Injector Tube, OEM # 675442C1

530 C.I., (8.7L), 530P, Diesel, OHV, 12 Valve, ""Mechanical Inj."" IHC_530 **51**
 L6 530 CID BORE - 116.57mm/4.589""

PART		PART NO.	NOTES
Valve	Int	01899	1.970 Head Diameter, 5/16 Stem Dia., OEM # 1818580-C1
		01943	1.970 Head Diameter, 3/8 Stem Dia., OEM # 1824642-C1/C2
	Exh	01900S	1.600 Head Diameter, Stellite Face, 5/16 Stem Dia., OEM # 1818579-C1, 1824838-C1
		01944S	1.600 Head Diameter, Stellite Face, 3/8 Stem Dia., OEM # 1824842-C1
Keeper	Both	121-1011	1 SQ Bead Type, For 5/16 Valve Stem, OEM # 1810944C1
Stem Seal	Both	122-1300	Positive Type, Viton Material, Top Hat Style, W/ 5/16 Stem Dia., OEM # 1822245C1
		122-1320	Positive Type, Viton Material, Top Hat Style, Green Seal, W/ 3/8 Stem Dia., OEM # 1823925-C1
		122-1426	Umbrella Type, Nylon Material, Oil Shield Style, OEM # 1824683C1, NOTE: Use With 161-1046 Rotator
Guide	Both	140-3006	0.3745 I.D., 2.395 Length, 0.6265 O.D., OEM # 1824646-C1, For 3/8 Stem
		140-8476	0.3146 I.D., 2.440 Length, 0.5651 O.D., For 5/16 Stem, OEM Replacement, OEM # 1820264-C1, Check Press Fit
Spring	Int	160-1416	2.357 Length, OEM # 677349-C1
	Exh	160-1417	2.580 Length, OEM # 1825540-C1
Rotator	Both	161-1046	OEM # 1824680-C1, W/ 3/8 Stem Dia., NOTE: Includes Oil Shield 1824683C1
		161-1049	OEM # 1820826-C91, W/ 5/16 Stem Dia., Includes Oil Shield
Injector Tubes and Components		240-1024	Brass Material, Injector Tube, OEM # 675442C1

I.H.C. / TRACTOR (Cont'd)

52 530 C.I., (8.7L), 530E, Diesel, OHV, 12 Valve, ""HEUI Electrical Inj"" IHC 530E
 L6 530 CID BORE - 116.57mm/4.589""

PART	PART NO.	NOTES
Valve Seat Insert	Int	SB1823E-1 1.823 O.D.,1.560T I.D.,0.2730 Depth,OEM # 1821901-C1, Use W/ 1.786 Valve Head Diameter; NOTE: This Is .002 O/S Of Standard OEM # 1821900-C1 & C3
		SB2001E-1 2.001 O.D.,1.712T I.D.,0.3860 Depth,+10, & +13 O/S Available,OEM # 671559C1, 675043C1; NOTE: Alternate 0.030 Taller Seat To Be Used W/ 1.970 Valve Head Diameter, NOTE: Seat Will Need To Be Machined In Order To Achieve Correct Depth
		SB2001E-2 2.001 O.D.,1.712T I.D.,0.3560 Depth,OEM # 1827121C2; NOTE: Use W/ 1.970 Head, For Oversizes Use SB2001E-1
	Exh	SB1811E-2N 1.811 O.D.,1.548T I.D.,0.3340 Depth,+15 O/S Available,OEM # 1821903-C3
	SB1811E-3 1.811 O.D.,1.548T I.D.,0.3340 Depth,OEM # 1830711-C1	
Valve	Int	01945 1.786 Head Diameter,30 Degree Seat, OEM # 1823875-C1
		02131 1.970 Head Diameter,5.992 Overall Length, OEM # 1826471C2, 1826471C1, 1842913C1
	Exh	01946S 1.786 Head Diameter,Stellite Face,45 Degree Seat, OEM # 1824840-C1, 1824840-C1, 1842912-C1
Keeper	Both	121-1091 1 RD Bead Type,For 3/8 Valve Stem, OEM # 1824644C1
Stem Seal	Both	122-1320 Positive Type,Viton Material,Top Hat Style,Green Seal,W/ 3/8 Stem Dia., OEM # 1823925-C1
		122-1426 Umbrella Type,Nylon Material,Oil Shield Style,OEM # 1824683C1, NOTE: Use With 161-1046 Rotator
Guide	Both	140-8188 0.3745 I.D.,2.610 Length,0.6263 O.D.,Spiral I.D. Toward Combustion,OEM # 1815264C1
		140-8188SA 0.3745 I.D.,2.610 Length,0.6263 O.D.,Spiral I.D. Toward Combustion, ""Special Alloy"", For Ultra Low Sulfur Diesel
Spring	Int	160-1416 2.357 Length,OEM # 677349-C1
	Exh	160-1417 2.580 Length,OEM # 1825540-C1
Rotator	Both	161-1046 OEM # 1824680-C1, W/ 3/8 Stem Dia., NOTE: Includes Oil Shield 1824683C1
Injector Tubes and Components		240-1025 Stainless Steel Material,Injector Tube,OEM # 1818778C1, 1818778C2, 1818778C3; NOTE: Early, ESN 980820 - 1194038 Years 1995-1999
		240-1027 Stainless Steel Material,Injector Tube,OEM # 1833382C1; NOTE: Late, ESN 1194039 - Up, To MY2004

53 691 C.I., (11.3L), D691, Diesel, OHV, 12 Valve D691
 L6 691 CID BORE - 120.7mm/4.752""

PART	PART NO.	NOTES
Guide	Both	140-4944 0.3120 I.D.,2.688 Length,0.6270 O.D.

54 817 C.I., (13.4L), DT817, Diesel, OHV, 12 Valve, ""TURBO"" DT817
 L6 817 CID BORE - 136.5mm/5.375""

PART	PART NO.	NOTES
Guide	Both	140-6913 0.4375 I.D.,3.438 Length,0.6888 O.D.

I.H.C. NAVISTAR / HEAVY DUTY

Engine	Models	Line No.
4 Cylinder		
152 C.I., (2.5L), B152, Gas, OHV, 8 Valve, ""1961-68 Scout""	Scout 1961-68	1
196 C.I., (3.2L), IHN196, Gas, OHV, 8 Valve		2
6 Cylinder		
213 C.I., (3.5L), HD213, Gas, OHV, 12 Valve, ""1937-49""		3

(Cont'd) **I.H.C. NAVISTAR / HEAVY DUTY**

Engine	Models	Line No.
6 Cylinder		
213 C.I., (3.5L), HD213A, Gas, OHV, 12 Valve, ""1937-49""		4
214 C.I., (3.5L), GRD214, Gas, OHV, 12 Valve, ""1937-49""		5
214 C.I., (3.5L), GRD214A, Gas, OHV, 12 Valve, ""1937-49""		6
220 C.I., (3.6L), BD220, Gas, OHV, 12 Valve		7
220 C.I., (3.6L), BG220, Gas, OHV, 12 Valve		8
220 C.I., (3.6L), SD220, Gas, OHV, 12 Valve		9
232 C.I., (3.8L), HD232, Gas, OHV, 12 Valve, ""1937-49""		10
232 C.I., (3.8L), HD232A, Gas, OHV, 12 Valve, ""1937-49""		11
232 C.I., (3.8L), HD232C, Gas, OHV, 12 Valve, ""1937-49""		12
232 C.I., (3.8L), AMC232, Gas, OHV, 12 Valve, ""AMC 1969-78""	AMC 1969-78	13
233 C.I., (3.8L), GRD233A, Gas, OHV, 12 Valve, ""1937-49""		14
240 C.I., (3.9L), BG240, Gas, OHV, 12 Valve		15
240 C.I., (3.9L), BD240, Gas, OHV, 12 Valve, ""1950-69""		16
240 C.I., (3.9L), SD240, Gas, OHV, 12 Valve, ""1950-69""		17
241 C.I., (3.9L), BG241, Gas, OHV, 12 Valve, ""1949-71""		18
241 C.I., (3.9L), FAB241, Gas, OHV, 12 Valve, ""1937-40""		19
250 C.I., (4.1L), BLD250, Gas, OHV, 12 Valve, ""1941-49""		20
258 C.I., (4.2L), AMC258, Gas, OHV, 12 Valve, ""AMC 1971-78""	AMC 1971-78	21
259 C.I., (4.3L), FAB259, Gas, OHV, 12 Valve, ""1938-40""		22
264 C.I., (4.3L), BD264, Gas, OHV, 12 Valve, ""1955-69""		23
264 C.I., (4.3L), BG264, Gas, OHV, 12 Valve, ""1955-69""		24
265 C.I., (4.3L), BG265, Gas, OHV, 12 Valve, ""1955-69""		25
269 C.I., (4.4L), BD269, Gas, OHV, 12 Valve, ""1942-56""		26
269 C.I., (4.4L), BLD269, Gas, OHV, 12 Valve, ""1942-56""		27
269 C.I., (4.4L), BLD269A, Gas, OHV, 12 Valve, ""1942-56""		28
275 C.I., (4.5L), VT275, Diesel, OHV, 24 Valve ""MaxxForce 5 TURBO""	Ford LCF, International CF, City Star	29
282 C.I., (4.6L), BD282, Gas, OHV, 12 Valve, ""1953-69""		30
301 C.I., (4.9L), D301, Diesel, OHV, 12 Valve		31
308 C.I., (5.0L), BD308, Gas, OHV, 12 Valve, ""1955-69""		34
318 C.I., (5.2L), RD318, Gas, OHV, 12 Valve		35
318 C.I., (5.2L), RD318A, Gas, OHV, 12 Valve		36
360 C.I., (5.9L), IHND360, Diesel, OHV, 12 Valve		39
360 C.I., (5.9L), DT360, Diesel, OHV, 12 Valve, ""TURBO""		40
361 C.I., (5.9L), FBB361, Gas, OHV, 12 Valve, ""1938-49""		41
361 C.I., (5.9L), FBC361, Gas, 12 Valve, ""1938-49""		42
361 C.I., (5.9L), RD361, Gas, OHV, 12 Valve, ""1938-49""		43
361 C.I., (5.9L), RD361A, Gas, OHV, 12 Valve, ""1938-49""		44
372 C.I., (6.0L), RD372, Gas, OHV, 12 Valve, ""1954-69""		46
401 C.I., (6.6L), FBC401, Gas, OHV, 12 Valve, ""1938-49""		50
401 C.I., (6.6L), RD401, Gas, OHV, 12 Valve, ""1938-49""		51
401 C.I., (6.6L), RD401A, Gas, OHV, 12 Valve, ""1938-49""		52

I.H.C. NAVISTAR / HEAVY DUTY (Cont'd)

Engine	Models	Line No.
6 Cylinder		
406 C.I., (6.6L), RD406, Gas, OHV, 12 Valve, ""1954-69""		56
407 C.I., (6.7L), D407, Diesel, OHV, 12 Valve		57
407 C.I., (6.7L), DT407, Diesel, OHV, 12 Valve, ""TURBO""		58
408 C.I., (6.7L), DT408, Diesel, OHV, 12 Valve, ""TURBO""		59
414 C.I., (6.8L), D414/DT414, Diesel, OHV, 12 Valve, ""N/A & TURBO""		60
436 C.I., (7.1L), D436/DT436, Diesel, OHV, 12 Valve, ""N/A & TURBO""		62
450 C.I., (7.3L), RD450, Gas, OHV, 12 Valve, ""1954-69""		67
450 C.I., (7.3L), RD450A, Gas, OHV, 12 Valve		68
466 C.I., (7.6L), DT466E, Diesel, OHV, 12 Valve, ""HEUI Electronic Inj.""		70
466 C.I., (7.6L), DT466P, Diesel, OHV, 12 Valve, ""Mechanical Inj. TURBO""		71
466 C.I., (7.6L), MAXX-DT466, Diesel, OHV, 24 Valve, ""MaxxForce DT TURBO""		72
466 C.I., (7.6L), D466, Diesel, OHV, 12 Valve		73
466 C.I., (7.6L), DT-DTA466, Diesel, OHV, 12 Valve, ""TURBO""		74
466 C.I., (7.6L), DTA466C, Diesel, OHV, 12 Valve, ""TURBO""		75
466 C.I., (7.6L), DTI466B, Diesel, OHV, 12 Valve, ""TURBO""		76
501 C.I., (8.2L), RD501, Gas, OHV, 12 Valve		79
530 C.I., (8.7L), 530E, Diesel, OHV, 12 Valve, "" HEUI Electrical Inj.""		80
530 C.I., (8.7L), 530P, Diesel, OHV, 12 Valve, ""Mechanical Inj.""		81
570 C.I., (9.3L), MAXX-9, Diesel, OHV, 24 Valve, ""MaxxForce 9 TURBO""	DT570	86
758 C.I., (12.4L), MAXX-13, Diesel. SOHC, 24 Valve, ""MaxxForce 13 TURBO""		88
8 Cylinder		
304 C.I., (5.0L), V304, Gas, OHV, 16 valve		32
304 C.I., (5.0L), V304A, Gas, OHV, 16 Valve		33
345 C.I., (5.6L), V345, Gas, OHV, 16 Valve		37
345 C.I., (5.6L), V345A, Gas, OHV, 16 Valve		38
365 C.I., (6.0L), VT365, Diesel, OHV, 32 Valve, ""Powerstroke TURBO""		45
390 C.I., (6.4L), MAXX-7, Diesel, OHV, 32 Valve, ""MaxxForce 7 TURBO""		47
392 C.I., (6.4L), V392, Gas, OHV, 16 Valve		48
400 C.I., (6.6L), V400, Gas, OHV, 16 Valve, ""1974-75""		49
401 C.I., (6.6L), V401, Gas, OHV, 16 Valve		53
401 C.I., (6.6L), VS401, Gas, OHV, 16 Valve		54
404 C.I., (6.6L), MV404, Gas, OHV, 16 Valve		55
420 C.I., (6.9L), 420, Diesel, OHV, 16 valve, VIN D, ""1983-87""		61
444 C.I., (7.3L), 444, Diesel, OHV, 16 Valve, ""1988-95 IDI""		63

(Cont'd) I.H.C. NAVISTAR / HEAVY DUTY

Engine	Models	Line No.
8 Cylinder		
444 C.I., (7.3L), 444T, Diesel, OHV, 16 Valve, ""1993-95 IDI TURBO""		64
444 C.I., (7.3L), 444TE, Diesel, OHV, 16 Valve, ""Powersroke DI TURBO""		65
446 C.I., (7.3L), MV446, Gas, OHV, 16 Valve		66
461 C.I., (7.5L), V461, Gas, OHV, 16 Valve		69
478 C.I., (7.8L), V478, Gas, OHV, 16 Valve		77
478 C.I., (7.8L), VS478, Gas, OHV, 16 Valve		78
537 C.I., (8.8L), V537, Gas, OHV, 16 valve		82
549 C.I., (9.0L), V549, FTV549, Gas, OHV, 16 Valve		83
549 C.I., (9.0L), VS549, FTVS549, Gas, OHV, 16 Valve		84
551 C.I., (9.0L), 551, Diesel, OHV, 16 Valve		85
605 C.I., (9.9L), V8-605, Gas, OHV, 16 Valve		87

152 C.I., (2.5L), B152, Gas, OHV, 8 Valve, ""1961-68 Scout"" IHN152 **1**
 L4 152 CID BORE - 98.425mm/3.875""

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1678E-1	1.678 O.D.,1.446 I.D.,0.3120 Depth
Valve	Int	00560	1.969 Head Diameter,OEM # 151269R2
	Exh	00559S	1.609 Head Diameter,Stellite Face,OEM # 151443R2
Keeper	Both	121-1007	1 SQ Bead Type,OEM # 41339D
Stem Seal	Both	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
Guide	Both	140-7876	0.3745 I.D.,2.906 Length,0.6888 O.D.,OEM # 151798R1
Lifter	Both	VL32	Hydraulic Type,OEM # 217158R92

196 C.I., (3.2L), IHN196, Gas, OHV, 8 Valve IHN196 **2**
 L4 196 CID BORE - 104.775mm/4.125""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2125-3	2 1/8 O.D.,1 15/16 I.D.,3/16 Depth
	Exh	SB1803E-1	1.803 O.D.,1.571 I.D.,0.3120 Depth
Valve	Int	01152	2.078 Head Diameter,OEM # 352177C1
	Exh	01133S	1.734 Head Diameter,Stellite Face,OEM # 874918R2
Keeper	Both	121-1007	1 SQ Bead Type,OEM # 41339D
Stem Seal	Both	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
Guide	Int	140-7876	0.3745 I.D.,2.906 Length,0.6888 O.D.,OEM # 151798R1, -1 U/S I.D.
	Exh	140-7860	0.4180 I.D.,2.906 Length,0.6890 O.D.,Counterbored
		140-8223	0.4190 I.D.,2.906 Length,0.6887 O.D.,Counterbored
Spring	Both	160-1206	2.050 Length,W/ Damper
Lifter	Both	VL32	Hydraulic Type,OEM # 217158R92
Rocker Components	Int	180-1290	Rocker Arm,OEM # 404064C1
Push Rod	Both	190-1370	9.779 Length>Note: Ball Ends, W/ Boat Type Rocker Arm

213 C.I., (3.5L), HD213, Gas, OHV, 12 Valve, ""1937-49"" HD213 **3**
 L6 213 CID BORE - 84.1mm/3.311""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 13/16 O.D.,1 1/2 I.D.,1/4 Depth,Also Available In Non-Magnetic (N) Material
	Exh	SB1562-6	1 9/16 O.D.,1 1/4 I.D.,7/32 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

I.H.C. NAVISTAR / HEAVY DUTY (Cont'd)

4 213 C.I., (3.5L), HD213A, Gas, OHV, 12 Valve, ""1937-49"" HD213A
L6 213 CID BORE - 84.1mm/3.311""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material 1 ¹ / ₁₆ O.D., 1 ¹ / ₄ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1562-6	

5 214 C.I., (3.5L), GRD214, Gas, OHV, 12 Valve, ""1937-49"" GRD214
L6 214 CID BORE - 84.1mm/3.311""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material 1 ¹ / ₁₆ O.D., 1 ¹ / ₄ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1562-6	

6 214 C.I., (3.5L), GRD214A, Gas, OHV, 12 Valve, ""1937-49"" GRD214A
L6 214 CID BORE - 84.1mm/3.311""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material 1 ¹ / ₁₆ O.D., 1 ¹ / ₄ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1562-6	

7 220 C.I., (3.6L), BD220, Gas, OHV, 12 Valve BD220
L6 220 CID BORE - 90.4mm/3.559""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-3	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., 1/4 Depth, Also Available Non-Magnetic (N) Material 1 ¹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth
	Exh	SB1562-8	
Guide	Both	140-1747	0.3760 I.D., 2.420 Length, 0.6268 O.D., Special Alloy, OEM # 237248R1

8 220 C.I., (3.6L), BG220, Gas, OHV, 12 Valve BG220
L6 220 CID BORE - 90.4mm/3.559""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-3	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., 1/4 Depth, Also Available Non-Magnetic (N) Material 1 ¹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth
	Exh	SB1562-8	
Guide	Both	140-1747	0.3760 I.D., 2.420 Length, 0.6268 O.D., Special Alloy, OEM # 237248R1

9 220 C.I., (3.6L), SD220, Gas, OHV, 12 Valve SD220
L6 220 CID BORE - 90.4mm/3.559""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-3	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., 1/4 Depth, Also Available Non-Magnetic (N) Material 1 ¹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth
	Exh	SB1562-8	
Stem Seal	Both	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
Guide	Both	140-1747	0.3760 I.D., 2.420 Length, 0.6268 O.D., Special Alloy, OEM # 237248R1

10 232 C.I., (3.8L), HD232, Gas, OHV, 12 Valve, ""1937-49"" HD232
L6 232 CID BORE - 84.1mm/3.311""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material 1 ¹ / ₁₆ O.D., 1 ¹ / ₄ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1562-6	
Guide	Both	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)

(Cont'd) **I.H.C. NAVISTAR / HEAVY DUTY**

232 C.I., (3.8L), HD232A, Gas, OHV, 12 Valve, ""1937-49"" **HD232A 11**
L6 232 CID **BORE - 84.1mm/3.311""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material 1 ⁹ / ₁₆ O.D., 1 ¹ / ₄ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1562-6	
Guide	Both	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)

232 C.I., (3.8L), HD232C, Gas, OHV, 12 Valve, ""1937-49"" **HD232C 12**
L6 232 CID **BORE - 84.1mm/3.311""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material 1 ⁹ / ₁₆ O.D., 1 ¹ / ₄ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1562-6	
Guide	Both	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)

232 C.I., (3.8L), AMC232, Gas, OHV, 12 Valve, ""AMC 1969-78"" **IHN232 13**
L6 232 CID **BORE - 95.25mm/3.750""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-1	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material 1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1500-1	
Valve	Int	01260	1.787 Head Diameter, 4 Groove, OEM # 444829C1, From S/N 507A01, 1973-78
		01442	1.787 Head Diameter, 1 Groove, 1969-72
	Exh	01325	1.406 Head Diameter, 4 Groove, From S/N 507A01, 1973-78
		01441	1.406 Head Diameter, 1 Groove, 1969-72
Keeper	Both	121-1007	1 SQ Bead Type, OEM # 41339D, W/ 3/8 Stem Dia., 1969-72
		121-1014	4 RD Bead Type, 1973-78
Stem Seal	Both	122-1059	Umbrella Type, GF Nylon Material, Umbrella Style
Guide	Both	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	160-1023	2.034 Length, W/O Rotator
Lifter	Both	VL89	Hydraulic Type, OEM # 446571C1
Rocker Components	Both	181-1028	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge, 1974-78 Bridge, When Replacing, Fulcrum # 183-1027 Must Also Be Used, 1974-78
		183-1028	
Push Rod	Both	190-1429	9.594 Length, W/ Stamped Steel Rocker Arms, 1972-76
		190-1440	9.622 Length, 1977-78

233 C.I., (3.8L), GRD233A, Gas, OHV, 12 Valve, ""1937-49"" **GRD233A 14**
L6 233 CID **BORE - 84.1mm/3.311""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material 1 ⁹ / ₁₆ O.D., 1 ¹ / ₄ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1562-6	

I.H.C. NAVISTAR / HEAVY DUTY (Cont'd)

15 240 C.I., (3.9L), BG240, Gas, OHV, 12 Valve

IHN240

L6 240 CID

BORE - 90.4mm/3.559"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-3	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., 1/4 Depth, Also Available Non-Magnetic (N) Material, W/ 1.656 Valve Head Dia.
	Exh	SB1875-1	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
		SB1562-8	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth

16 240 C.I., (3.9L), BD240, Gas, OHV, 12 Valve, ""1950-69""

BD240

L6 240 CID

BORE - 90.4mm/3.559"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-3	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., 1/4 Depth, Also Available Non-Magnetic (N) Material, W/ 1.656 Valve Head Dia.
	Exh	SB1875-1	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
		SB1562-8	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth
Stem Seal	Both	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
Guide	Both	140-1747	0.3760 I.D., 2.420 Length, 0.6268 O.D., Special Alloy, OEM # 237248R1

17 240 C.I., (3.9L), SD240, Gas, OHV, 12 Valve, ""1950-69""

SD240

L6 240 CID

BORE - 90.4mm/3.559"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-3	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., 1/4 Depth, Also Available Non-Magnetic (N) Material, W/ 1.656 Valve Head Dia.
	Exh	SB1875-1	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material, W/ 1.780 Valve Head Dia.
		SB1562-8	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth, Early SD240 Engine
Stem Seal	Both	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
Guide	Both	140-1747	0.3760 I.D., 2.420 Length, 0.6268 O.D., Special Alloy, OEM # 237248R1

18 241 C.I., (3.9L), BG241, Gas, OHV, 12 Valve, ""1949-71""

IHN241

L6 241 CID

BORE - 90.4mm/3.559"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-3	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., 1/4 Depth, Also Available Non-Magnetic (N) Material, W/ 1.656 Valve Head Dia.
	Exh	SB1875-1	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material, W/ 1.780 Valve Head Dia.
		SB1562-8	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth
Guide	Both	140-1747	0.3760 I.D., 2.420 Length, 0.6268 O.D., Special Alloy, OEM # 237248R1

19 241 C.I., (3.9L), FAB241, Gas, OHV, 12 Valve, ""1937-40""

FAB241

L6 241 CID

BORE - 85.7mm/3.374"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia.
	Exh	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

20 250 C.I., (4.1L), BLD250, Gas, OHV, 12 Valve, ""1941-49""

BLD250

L6 250 CID

BORE - 87.2mm/3.433"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-1	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, +10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

(Cont'd) **I.H.C. NAVISTAR / HEAVY DUTY**

258 C.I., (4.2L), AMC258, Gas, OHV, 12 Valve, ""AMC 1971-78"" IHN258 **21**
L6 258 CID BORE - 95.25mm/3.750""

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1875-1 SB1500-1	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material 1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int Exh	01260 01325	1.787 Head Diameter, 4 Groove, OEM # 444829C1, From S/N 507A01 1.406 Head Diameter, 4 Groove, From S/N 507A01
Keeper	Both	121-1014	4 RD Bead Type
Stem Seal	Both	122-1005	Umbrella Type, Rubber Material, Umbrella Style
Guide	Both	140-6108 140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U) 0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Lifter	Both	VL89	Hydraulic Type, OEM # 387095C1
Rocker Components	Both	180-1236	Rocker Arm, 1975-78
Push Rod	Both	190-1429 190-1440	9.594 Length, 1972-75 9.622 Length, 1976-78

259 C.I., (4.3L), FAB259, Gas, OHV, 12 Valve, ""1938-40"" FAB259 **22**
L6 259 CID BORE - 88.8mm/3.496""

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1750-2 SB1562-1	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia. 1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

264 C.I., (4.3L), BD264, Gas, OHV, 12 Valve, ""1955-69"" BD264 **23**
L6 264 CID BORE - 93.6mm/3.685""

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1875-1 SB1562-8	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material 1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth
Stem Seal	Both	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
Guide	Both	140-1747	0.3760 I.D., 2.420 Length, 0.6268 O.D., Special Alloy, OEM # 237248R1

264 C.I., (4.3L), BG264, Gas, OHV, 12 Valve, ""1955-69"" BG264 **24**
L6 264 CID BORE - 93.6mm/3.685""

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1875-1 SB1562-8	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material 1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth

265 C.I., (4.3L), BG265, Gas, OHV, 12 Valve, ""1955-69"" BG265 **25**
L6 265 CID BORE - 93.6mm/3.685""

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1875-1 SB1562-8	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material 1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth
Guide	Both	140-1747	0.3760 I.D., 2.420 Length, 0.6268 O.D., Special Alloy, OEM # 237248R1

269 C.I., (4.4L), BD269, Gas, OHV, 12 Valve, ""1942-56"" BD269 **26**
L6 269 CID BORE - 90.4mm/3.559""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia.

I.H.C. NAVISTAR / HEAVY DUTY (Cont'd)

26 269 C.I., (4.4L), BD269, Gas, OHV, 12 Valve, ""1942-56"" BD269
 (cont.) L6 269 CID BORE - 90.4mm/3.559""

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Stem Seal	Both	122-1043	O-Ring Type, Nitrile Material, O-Ring Style

27 269 C.I., (4.4L), BLD269, Gas, OHV, 12 Valve, ""1942-56"" BLD269
 L6 269 CID BORE - 90.4mm/3.559""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia.
	Exh	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Stem Seal	Both	122-1043	O-Ring Type, Nitrile Material, O-Ring Style

28 269 C.I., (4.4L), BLD269A, Gas, OHV, 12 Valve, ""1942-56"" BLD269A
 L6 269 CID BORE - 90.4mm/3.559""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia.
	Exh	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Stem Seal	Both	122-1043	O-Ring Type, Nitrile Material, O-Ring Style

29 275 C.I., (4.5L), VT275, Diesel, OHV, 24 Valve ""MaxxForce 5 TURBO"" VT275
 V6 275 CID BORE - 95.0mm/3.740""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1375-2	1 ⁵ / ₈ O.D., 1 ¹ / ₈ I.D., 1/4 Depth, NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	SB1250-15N	1 ¹ / ₄ O.D., 0.905 I.D., 1/4 Depth, NOTE: Star Series Material W/ Smaller I.D.;
		SB1250-3	1 ¹ / ₄ O.D., 1.000 I.D., 1/4 Depth, NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	02179	1.339 Head Diameter, OEM # 1837731C1
	Exh	02180	1.102 Head Diameter, OEM # 1837732C1
Keeper	Both	121-1105A	1 RD Bead Type, OEM # 1828289C1
Stem Seal	Both	122-1378	Positive Type, Viton Material, Top Hat Style
Guide	Both	140-3055	0.2765 I.D., 2.331 Length, 0.4395 O.D.
Spring	Both	160-1458	2.076 Length, OEM # 1838034C1
Lifter	Both	VL114	Hydraulic Roller Type
Push Rod	Both	190-1548	9.795 Length, OEM # 1873916C2; Note: Bronze Colored End MUST Install Towards Rocker Arm.
Head Saver Shim		230-2148	New Hgt. 3.7380 - 3.7400: Min. Hgt. 3.7280: 2 Required
		230-2196	New Hgt. 3.7380 - 3.7400: Min. Hgt. 3.7280; NOTE: W/20mm Dowel Pins
Injector Tubes and Components		240-1034	Stainless Steel Material, Injector Tube, OEM # 1828320C1
		240-1034GP	Stainless Steel Material, OEM # 1835235C1; NOTE: Glow Plug Sleeve

30 282 C.I., (4.6L), BD282, Gas, OHV, 12 Valve, ""1953-69"" BD282
 L6 282 CID BORE - 96.8mm/3.811""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-1	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1750-3	1 ³ / ₄ O.D., 1 ⁷ / ₁₆ I.D., 7/32 Depth, Also Available In Non-Magnetic (N) Material

(Cont'd) **I.H.C. NAVISTAR / HEAVY DUTY**

282 C.I., (4.6L), BD282, Gas, OHV, 12 Valve, ""1953-69"" **BD282 30**
BORE - 96.8mm/3.811"" (cont.)
L6 282 CID

PART		PART NO.	NOTES
Stem Seal	Both	122-1043	O-Ring Type,Nitrile Material,O-Ring Style

301 C.I., (4.9L), D301, Diesel, OHV, 12 Valve **IHND301 31**
BORE - 96.8mm/3.811""
L6 301 CID

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-4		1^{3}/_{8} O.D.,1^{1}/_{8} I.D.,^{3}/_{16} Depth
Guide	Both	140-1881	0.3745 I.D.,2.844 Length,0.6265 O.D.,OEM # 278370R1, +2 O/S Available

304 C.I., (5.0L), V304, Gas, OHV, 16 valve **IHNV304 32**
BORE - 98.425mm/3.875""
V8 304 CID

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1678E-1	1.678 O.D.,1.446 I.D.,0.3120 Depth
Valve	Int	00560	1.969 Head Diameter,OEM # 151269R2 1.609 Head Diameter,Stellite Face,OEM # 151443R2, +15 O/S Stem Available
	Exh	00559S	
Keeper	Both	121-1007	1 SQ Bead Type,OEM # 41339D
Stem Seal	Both	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
Guide	Both	140-7876	0.3745 I.D.,2.906 Length,0.6888 O.D.,OEM # 151798R1
Lifter	Both	VL32	Hydraulic Type,OEM # 217158R91
Rocker Components	Int	180-1290	Rocker Arm,OEM # 404064C1

304 C.I., (5.0L), V304A, Gas, OHV, 16 Valve **IHNV304A 33**
BORE - 98.425mm/3.875""
V8 304 CID

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1678E-1	1.678 O.D.,1.446 I.D.,0.3120 Depth
Valve	Int	00560	1.969 Head Diameter,OEM # 151269R2 1.609 Head Diameter,Stellite Face,OEM # 151443R3
	Exh	00559S	
Keeper	Both	121-1007	1 SQ Bead Type,OEM # 41339D
Stem Seal	Both	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
Guide	Both	140-7876	0.3745 I.D.,2.906 Length,0.6888 O.D.,OEM # 151798R1
Spring	Both	160-1206	2.050 Length,W/ Damper,OEM # 317365C11
Lifter	Both	VL32	Hydraulic Type,OEM # 217158R91

308 C.I., (5.0L), BD308, Gas, OHV, 12 Valve, ""1955-69"" **BD308 34**
BORE - 96.8mm/3.811""
L6 308 CID

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-1	1 ⁷ / ₈ O.D.,1 ¹⁵ / ₈ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
	Exh	SB1750-3	

318 C.I., (5.2L), RD318, Gas, OHV, 12 Valve **RED318 35**
BORE - 98.4mm/3.874""
L6 318 CID

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1625-3	1 ⁵ / ₈ O.D.,1 ¹⁵ / ₁₆ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material

318 C.I., (5.2L), RD318A, Gas, OHV, 12 Valve **RED318A 36**
BORE - 98.4mm/3.874""
L6 318 CID

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1625-3	1 ⁵ / ₈ O.D.,1 ¹⁵ / ₁₆ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material

I.H.C. NAVISTAR / HEAVY DUTY (Cont'd)

37 345 C.I., (5.6L), V345, Gas, OHV, 16 Valve
V8 345 CID

IHNV345
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1678E-1	1.678 O.D., 1.446 I.D., 0.3120 Depth
Valve	Int	00560	1.969 Head Diameter, OEM # 151269R2
	Exh	00559S	1.609 Head Diameter, Stellite Face, OEM # 151443R3
Keeper	Both	121-1007	1 SQ Bead Type, OEM # 41339D
Stem Seal	Both	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
Guide	Both	140-7876	0.3745 I.D., 2.906 Length, 0.6888 O.D., OEM # 151798R1
Spring	Both	160-1206	2.050 Length, W/ Damper, OEM # 317365C11
Lifter	Both	VL32	Hydraulic Type, OEM # 217158R92
Rocker Components	Int	180-1290	Rocker Arm, OEM # 404064C1
Push Rod	Both	190-1370	9.779 Length, Note: Ball Ends, W/ Boat Type Rocker Arm

38 345 C.I., (5.6L), V345A, Gas, OHV, 16 Valve
V8 345 CID

IHNV345A
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1678E-1	1.678 O.D., 1.446 I.D., 0.3120 Depth
Valve	Int	00560	1.969 Head Diameter, OEM # 151269R2
	Exh	00559S	1.609 Head Diameter, Stellite Face, OEM # 151443R3
Keeper	Both	121-1007	1 SQ Bead Type, OEM # 41339D
Guide	Both	140-7876	0.3745 I.D., 2.906 Length, 0.6888 O.D., OEM # 151798R1
Spring	Both	160-1206	2.050 Length, W/ Damper, OEM # 317365C11
Lifter	Both	VL32	Hydraulic Type, OEM # 217158R91
Push Rod	Both	190-1370	9.779 Length, Note: Ball Ends, W/ Boat Type Rocker Arm

39 360 C.I., (5.9L), IHND360, Diesel, OHV, 12 Valve
L6 360 CID

IHND360
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1782E-1	1.782 O.D., 1.490T I.D., 0.3400 Depth, +15 O/S Available, OEM # 671602C1 & 675441C
	Exh	SB1536E-2N	1.536 O.D., 1.255T I.D., 0.3585 Depth, +15 O/S Available, OEM # 671599C1 & 675576C1
Valve	Int	01520	1.710 Head Diameter, OEM # 676687C1
	Exh	01519	1.455 Head Diameter, OEM # 675573C2
Keeper	Both	121-1007	1 SQ Bead Type, OEM # 41339D
Stem Seal	Both	122-1301	Positive Type, Viton Material, Top Hat Style, Orange Seal, OEM # 1815374C1
Guide	Both	140-7431	0.3745 I.D., 2.750 Length, 0.6263 O.D., Spiral I.D. Toward Combustion, OEM # 675439C1
		140-7431SA	0.3745 I.D., 2.750 Length, 0.6263 O.D., Spiral I.D. Toward Combustion, "Special Alloy", For Ultra Low Sulfur Diesel
Spring	Both	160-1190	2.400 Length, OEM # 682064C1
Injector Tubes and Components		240-1024	Brass Material, Injector Tube, OEM # 675442C1

40 360 C.I., (5.9L), DT360, Diesel, OHV, 12 Valve, ""TURBO""
L6 360 CID

DT360
BORE - 101.78mm/4.010"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1782E-1	1.782 O.D., 1.490T I.D., 0.3400 Depth, +15 O/S Available, OEM # 671602C1 & 675441C
	Exh	SB1536E-2N	1.536 O.D., 1.255T I.D., 0.3585 Depth, +15 O/S Available, OEM # 671599C1 & 675576C1

(Cont'd) I.H.C. NAVISTAR / HEAVY DUTY**360 C.I., (5.9L), DT360, Diesel, OHV, 12 Valve, ""TURBO""**
L6 360 CID**DT360 40**
BORE - 101.78mm/4.010"" (cont.)

PART		PART NO.	NOTES
Valve	Int	01520	1.710 Head Diameter,OEM # 676687
	Exh	01574S	1.455 Head Diameter,Stellite Face,OEM # 1810086
Keeper	Both	121-1007	1 SQ Bead Type,OEM # 41339
Stem Seal	Both	122-1301	Positive Type,Viton Material,Top Hat Style,Orange Seal Umbrella Type,Nylon Material,Oil Shield Style,OEM # 1824683C1, NOTE: Use With 161-1046 Rotator
		122-1426	
Guide	Both	140-7431	0.3745 I.D.,2.750 Length,0.6263 O.D.,Spiral I.D. Toward Combustion,OEM # 675439C1 0.3745 I.D.,2.750 Length,0.6263 O.D.,Spiral I.D. Toward Combustion, ""Special Alloy"", For Ultra Low Sulfur Diesel
		140-7431SA	
Spring	Both	160-1190	2.400 Length,OEM # 682064
Rotator	Both	161-1046	OEM # 1824680C1, NOTE: Includes Oil Shield 1824683C1
Injector Tubes and Components		240-1024	Brass Material,Injector Tube,OEM # 675442C1

361 C.I., (5.9L), FBB361, Gas, OHV, 12 Valve, ""1938-49""
L6 361 CID**FBB361 41**
BORE - 104.7mm/4.122""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2375-2	2 $\frac{3}{8}$ O.D.,2.000 I.D., $\frac{9}{32}$ Depth 1 $\frac{3}{4}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material
	Exh	SB1750-8	

361 C.I., (5.9L), FBC361, Gas, 12 Valve, ""1938-49""
L6 361 CID**FBC361 42**
BORE - 104.7mm/4.122""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2375-2	2 $\frac{3}{8}$ O.D.,2.000 I.D., $\frac{9}{32}$ Depth 1 $\frac{3}{4}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material
	Exh	SB1750-8	

361 C.I., (5.9L), RD361, Gas, OHV, 12 Valve, ""1938-49""
L6 361 CID**RED361 43**
BORE - 104.7mm/4.122""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2375-2	2 $\frac{3}{8}$ O.D.,2.000 I.D., $\frac{9}{32}$ Depth 1 $\frac{3}{4}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material
	Exh	SB1750-8	

361 C.I., (5.9L), RD361A, Gas, OHV, 12 Valve, ""1938-49""
L6 361 CID**RED361A 44**
BORE - 104.7mm/4.122""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2375-2	2 $\frac{3}{8}$ O.D.,2.000 I.D., $\frac{9}{32}$ Depth 1 $\frac{3}{4}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material
	Exh	SB1750-8	

365 C.I., (6.0L), VT365, Diesel, OHV, 32 Valve, ""Powerstroke TURBO""
V8 365 CID**VT365 45**
BORE - 95mm/3.740""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1375-2	1 $\frac{3}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{1}{4}$ Depth,Note: Seat May Need To Be Machined To Achieve Correct Depth 1 $\frac{1}{4}$ O.D.,0.905 I.D., $\frac{1}{4}$ Depth,NOTE: Star Series Material W/ Smaller I.D.; NOTE: Seat May Need To Be Machined To Achieve Correct Depth 1 $\frac{1}{4}$ O.D.,1.000 I.D., $\frac{1}{4}$ Depth,Note: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	SB1250-15N	
		SB1250-3	
Valve	Int	02179	1.339 Head Diameter,OEM # 1837731C1
	Exh	02180	1.102 Head Diameter,OEM # 1837732C1
Keeper	Both	121-1105A	1 RD Bead Type,OEM # 1828289C1
Stem Seal	Both	122-1378	Positive Type,Viton Material,Top Hat Style

I.H.C. NAVISTAR / HEAVY DUTY (Cont'd)

45 365 C.I., (6.0L), VT365, Diesel, OHV, 32 Valve, ""Powerstroke TURBO"" VT365
 (cont.) V8 365 CID BORE - 95mm/3.740""

PART		PART NO.	NOTES
Guide	Both	140-3055	0.2765 I.D.,2.331 Length,0.4395 O.D.
Spring	Both	160-1458	2.076 Length,OEM # 1838034C1
Rotator		161-1079	
Lifter	Both	VL114	Hydraulic Roller Type
Push Rod	Both	190-1548	9.795 Length,OEM # 1873916C2; Note: Bronze Colored End MUST Install Towards Rocker Arm.
Head Saver Shim		230-2148	New Hgt. 3.7380 - 3.7400: Min. Hgt. 3.7280; 2 Required; NOTE: W/18mm Dowel Pins
		230-2196	New Hgt. 3.7380 - 3.7400: Min. Hgt. 3.7280; NOTE: W/20mm Dowel Pins
Injector Tubes and Components		240-1034	Stainless Steel Material,Injector Tube,OEM # 1828320C1
		240-1034GP	Stainless Steel Material,OEM # 1835235C1; NOTE: Glow Plug Sleeve

46 372 C.I., (6.0L), RD372, Gas, OHV, 12 Valve, ""1954-69"" IRD372
L6 372 CID BORE - 111mm/4.370""

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1875-7	1 $\frac{7}{8}$ O.D.,1 $\frac{19}{32}$ I.D., $\frac{1}{4}$ Depth,Also Available In Powdered Metal (PM) Material

47 390 C.I., (6.4L), MAXX-7, Diesel, OHV, 32 Valve, ""MaxxForce 7 TURBO"" MAXX-7
V8 390 CID BORE - 98mm/3.858""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1375-2	1 $\frac{3}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{1}{4}$ Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	SB1250-15N	1 $\frac{1}{4}$ O.D.,0.905 I.D., $\frac{1}{4}$ Depth,NOTE: Star Series Material W/ Smaller I.D.; NOTE: Seat May Need To Be Machined To Achieve Correct Depth
		SB1250-3	1 $\frac{1}{4}$ O.D.,1.000 I.D., $\frac{1}{4}$ Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	13182	1.339 Head Diameter,OEM # 1854006C1
	Exh	13183	1.161 Head Diameter,OEM # 1854007C1
Keeper	Both	121-1105A	1 RD Bead Type,OEM # 1828289C1
Stem Seal	Both	122-1378	Positive Type,Viton Material,Top Hat Style
Guide	Both	140-3055	0.2765 I.D.,2.331 Length,0.4395 O.D.
Spring	Both	160-1458	2.076 Length,OEM # 18038034C1
Rotator		161-1079	
Lifter	Both	VL114	Hydraulic Roller Type
Push Rod	Both	190-1548	9.795 Length,OEM # 1873916C2; Note: Bronze Colored End MUST Install Towards Rocker Arm.
Head Saver Shim		230-2178	New Hgt. - 3.740; Min. Hgt. - N/A
Injector Tubes and Components		240-1043	Stainless Steel Material,Injector Tube

48 392 C.I., (6.4L), V392, Gas, OHV, 16 Valve IHN392
V8 392 CID BORE - 104.775mm/4.125""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2125-3	2 $\frac{1}{8}$ O.D.,1 $\frac{15}{16}$ I.D., $\frac{3}{16}$ Depth
	Exh	SB1803E-1	1.803 O.D.,1.571 I.D.,0.3120 Depth
Valve	Int	01152	2.078 Head Diameter,OEM # 352177C1
	Exh	01133S	1.734 Head Diameter,Stellite Face,OEM # 874918R2
Keeper	Both	121-1007	1 SQ Bead Type,OEM # 41339D

(Cont'd) **I.H.C. NAVISTAR / HEAVY DUTY**

392 C.I., (6.4L), V392, Gas, OHV, 16 Valve
V8 392 CID

IHN392 **48**
BORE - 104.775mm/4.125" (cont.)

PART		PART NO.	NOTES
Stem Seal	Both	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
Guide	Int	140-7876	0.3745 I.D.,2.906 Length,0.6888 O.D.,OEM # 151798R1, -1 U/S I.D.
	Exh	140-7860	0.4180 I.D.,2.906 Length,0.6890 O.D.,Counterbored
		140-8223	0.4190 I.D.,2.906 Length,0.6887 O.D.,Counterbored
Spring	Both	160-1206	2.050 Length,W/ Damper,OEM # 317365C11
Lifter	Both	VL32	Hydraulic Type,OEM # 217158R91
Rocker Components	Int	180-1290	Rocker Arm,OEM # 404064C1
Push Rod	Both	190-1370	9.779 Length>Note: Ball Ends, W/ Boat Type Rocker Arm

400 C.I., (6.6L), V400, Gas, OHV, 16 Valve, ""1974-75""
V8 400 CID

IHN400 **49**
BORE - 105.79mm/4.165"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2125-1	2 $\frac{1}{8}$ O.D.,1 $\frac{13}{16}$ I.D., $\frac{1}{4}$ Depth
	Exh	SB1750-3N	1 $\frac{3}{4}$ O.D.,1 $\frac{7}{16}$ I.D., $\frac{7}{32}$ Depth
Valve	Int	01258	2.025 Head Diameter,4 Groove,+15 O/S Stem Available
	Exh	01257	1.680 Head Diameter,1 Groove
Keeper	Int	121-1014	4 RD Bead Type
	Exh	121-1003	1 SQ Bead Type,OEM # 41339D
Stem Seal	Both	122-1059	Umbrella Type,GF Nylon Material,Umbrella Style
Guide	Both	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Int	160-1217	2.038 Length,Outer, OEM # 9N5496
		160-1218	1.920 Length,Inner, OEM # 9N5495
Rocker Components	Both	183-1014	Fulcrum, Short
		183-1028	Bridge,When Replacing, Fulcrum # 183-1014 Must Also Be Used
Push Rod	Both	192-1331	7.793 Length

401 C.I., (6.6L), FBC401, Gas, OHV, 12 Valve, ""1938-49""
L6 401 CID

FBC401 **50**
BORE - 104.7mm/4.122"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2375-2	2 $\frac{3}{8}$ O.D.,2.000 I.D., $\frac{9}{32}$ Depth
	Exh	SB1750-8	1 $\frac{3}{4}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material

401 C.I., (6.6L), RD401, Gas, OHV, 12 Valve, ""1938-49""
L6 401 CID

RED401 **51**
BORE - 104.7mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2375-2	2 $\frac{3}{8}$ O.D.,2.000 I.D., $\frac{9}{32}$ Depth
	Exh	SB1750-8	1 $\frac{3}{4}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material

401 C.I., (6.6L), RD401A, Gas, OHV, 12 Valve, ""1938-49""
L6 401 CID

RED401A **52**
BORE - 104.7mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2375-2	2 $\frac{3}{8}$ O.D.,2.000 I.D., $\frac{9}{32}$ Depth
	Exh	SB1750-8	1 $\frac{3}{4}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material

I.H.C. NAVISTAR / HEAVY DUTY (Cont'd)

53 401 C.I., (6.6L), V401, Gas, OHV, 16 Valve
V8 401 CID

IHNV401
BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2250-1	2 $\frac{1}{4}$ O.D., 1 $\frac{15}{16}$ I.D., $\frac{3}{16}$ Depth
	Exh	SB2000-3C	2.000 O.D., 1 $\frac{5}{8}$ I.D., 19/64 Depth, Optional Stellite
		SB2000-3N	2.000 O.D., 1 $\frac{5}{8}$ I.D., 19/64 Depth
Keeper	Both	121-1009	1 SQ Bead Type, OEM # 61868R11
Stem Seal	Both	122-1043	O-Ring Type, Nitrile Material, O-Ring Style, From S/N 139494
Guide	Int	140-1817	0.4385 I.D., 3.063 Length, 0.6265 O.D., OEM # 133670R1
Spring	Both	160-1206	2.050 Length, W/ Damper, OEM # 317365C11, Late Engines

54 401 C.I., (6.6L), VS401, Gas, OHV, 16 Valve
V8 401 CID

VS401
BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2250-1	2 $\frac{1}{4}$ O.D., 1 $\frac{15}{16}$ I.D., $\frac{3}{16}$ Depth
	Exh	SB2000-3C	2.000 O.D., 1 $\frac{5}{8}$ I.D., 19/64 Depth, Optional Stellite
		SB2000-3N	2.000 O.D., 1 $\frac{5}{8}$ I.D., 19/64 Depth
Keeper	Both	121-1009	1 SQ Bead Type, OEM # 61868R11
Stem Seal	Both	122-1043	O-Ring Type, Nitrile Material, O-Ring Style, From S/N 139494
Guide	Int	140-1817	0.4385 I.D., 3.063 Length, 0.6265 O.D., OEM # 133670R1
Spring	Both	160-1206	2.050 Length, W/ Damper, OEM # 317365C11

55 404 C.I., (6.6L), MV404, Gas, OHV, 16 Valve
V8 404 CID

MV404
BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2125-1	2 $\frac{1}{8}$ O.D., 1 $\frac{13}{16}$ I.D., $\frac{1}{4}$ Depth
	Exh	SB1654E-1N	1.654 O.D., 1.367 I.D., 0.3120 Depth, OEM # 1805249C1
Valve	Int	01432	2.054 Head Diameter, OEM # 446418C1
	Exh	01431S	1.535 Head Diameter, Stellite Face, OEM # 446854C1
Keeper	Both	121-1007	1 SQ Bead Type, OEM # 41339D
Guide	Both	140-7174	0.3745 I.D., 2.600 Length, 0.6252 O.D., OEM # 446723C1
Spring	Both	160-1206	2.050 Length, W/ Damper, OEM # 317365C11
Lifter	Both	VL89	Hydraulic Type, OEM # 387095C1

56 406 C.I., (6.6L), RD406, Gas, OHV, 12 Valve, ""1954-69""
L6 406 CID

RD406
BORE - 111mm/4.370"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1875-1N	1 $\frac{7}{8}$ O.D., 1 $\frac{5}{8}$ I.D., $\frac{1}{4}$ Depth

57 407 C.I., (6.7L), D407, Diesel, OHV, 12 Valve
L6 407 CID

D407
BORE - 109.753mm/4.321"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-18	2.000 O.D., 1 $\frac{3}{4}$ I.D., $\frac{5}{16}$ Depth
	Exh	SB1727E-2N	1.727 O.D., 1.310T I.D., 0.3800 Depth, OEM # 670301C1
Valve	Int	00924	1.940 Head Diameter, OEM # 343433R1
	Exh	00923	1.625 Head Diameter, OEM # 341350R1
Keeper	Both	121-1006	2 RD Bead Type
Guide	Both	140-1957	0.4375 I.D., 3.172 Length, 0.6890 O.D.
Spring	Int	160-1285	2.343 Length, Inner, OEM # 62264VA
		160-1286	2.562 Length, Outer, OEM # 62265VA
	Exh	160-1404	1.982 Length, Inner, OEM # 160907R1, W/ Rotator
		160-1405	2.333 Length, Outer, OEM # 160908R1, W/ Rotator

(Cont'd) **I.H.C. NAVISTAR / HEAVY DUTY**

407 C.I., (6.7L), D407, Diesel, OHV, 12 Valve

D407 **57**

L6 407 CID

BORE - 109.753mm/4.321" (cont.)

PART	PART NO.	NOTES
Injector Tubes and Components	240-1031	Brass Material,Injector Tube,OEM # 326503R1

407 C.I., (6.7L), DT407, Diesel, OHV, 12 Valve, ""TURBO""

DT407 **58**

L6 407 CID

BORE - 109.753mm/4.321" (cont.)

PART	PART NO.	NOTES	
Valve Seat Insert	Int Exh	SB2000-18 SB1727E-2N	2.000 O.D.,1¼ I.D.,5/16 Depth 1.727 O.D.,1.310T I.D.,0.3800 Depth,OEM # 670301C1
Valve	Int Exh	00924 00923	1.940 Head Diameter,OEM # 670308C1 1.625 Head Diameter,OEM # 612313C1
Keeper	Both	121-1006	2 RD Bead Type
Guide	Both	140-1957	0.4375 I.D.,3.172 Length,0.6890 O.D.,OEM # 326505R3
Spring	Int Exh	160-1285 160-1286 160-1404 160-1405	2.343 Length,Inner, OEM # 62264VA 2.562 Length,Outer, OEM # 62265VA 1.982 Length,Inner, OEM # 160907R1, W/ Rotator 2.333 Length,Outer, OEM # 160908R1, W/ Rotator
Injector Tubes and Components	240-1031	Brass Material,Injector Tube,OEM # 326503R1	

408 C.I., (6.7L), DT408, Diesel, OHV, 12 Valve, ""TURBO""

DT408 **59**

L6 408 CID

BORE - 109mm/4.291" (cont.)

PART	PART NO.	NOTES	
Valve Seat Insert	Int Exh	SB1999E-1 SB1626E-1N SB1628E-1N	1.999 O.D.,1.712T I.D.,0.3860 Depth,OEM # 675043 1.626 O.D.,1.348T I.D.,0.3650 Depth,OEM # 675450C3 1.628 O.D.,1.348T I.D.,0.3650 Depth,+10, +13 O/S Available,OEM # 675450C1
Valve	Int Exh	01899 01943 01900S 01944S	1.970 Head Diameter,OEM # 1818580 1.970 Head Diameter,OEM # 1824642 1.600 Head Diameter,Stellite Face,OEM # 1824838 1.600 Head Diameter,Stellite Face,OEM # 1824842
Keeper	Both	121-1011 121-1091	1 SQ Bead Type,OEM # 1810944 1 RD Bead Type,OEM # 1824644
Stem Seal	Both	122-1300 122-1320 122-1426	Positive Type,Viton Material,Top Hat Style,OEM # 1822245 Positive Type,Viton Material,Top Hat Style,Green Seal,OEM # 1823925 Umbrella Type,Nylon Material,Oil Shield Style,OEM # 1824683C1, NOTE: Use With 161-1046 Rotator
Guide	Both	140-3006 140-8476	0.3745 I.D.,2.395 Length,0.6265 O.D.,OEM # 1824646 0.3146 I.D.,2.440 Length,0.5651 O.D.,OEM # 1820264
Spring	Int Exh	160-1416 160-1417	2.357 Length,OEM # 677439 2.580 Length,OEM # 1825540
Rotator	Both	161-1046 161-1049	OEM # 1824680C1, With ¾ Stem, Includes Oil Shield 1824683C1 OEM # 1820826C91, With 5/16 Stem, Includes Oil Shield
Injector Tubes and Components	Both	240-1024	Brass Material,Injector Tube,OEM # 675442

414 C.I., (6.8L), D414/DT414, Diesel, OHV, 12 Valve, ""N/A & TURBO""

D414NA_DT414 **60**

L6 414 CID

BORE - 109.25mm/4.301" (cont.)

PART	PART NO.	NOTES	
Valve Seat Insert	Int Exh	SB2001E-1 SB1628E-1N	2.001 O.D.,1.712T I.D.,0.3860 Depth,+10, & +13 O/S Available,OEM # 671559 1.628 O.D.,1.348T I.D.,0.3650 Depth,+10, +13 O/S Available,OEM # 671563

I.H.C. NAVISTAR / HEAVY DUTY (Cont'd)

60 414 C.I., (6.8L), D414/DT414, Diesel, OHV, 12 Valve, ""N/A & TURBO"" D414NA_DT414
 (cont.) L6 414 CID BORE - 109.25mm/4.301""

PART		PART NO.	NOTES
Valve	Int	01423	1.970 Head Diameter,OEM # 675046
	Exh	01422S	1.600 Head Diameter,Stellite Face,OEM # 676865
Keeper	Both	121-1007	1 SQ Bead Type,OEM # 41339
Stem Seal	Exh	122-1177	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 681234C1
Guide	Both	140-7431	0.3745 I.D.,2.750 Length,0.6263 O.D.,Spiral I.D. Toward Combustion,OEM # 675439C1
		140-7431SA	0.3745 I.D.,2.750 Length,0.6263 O.D.,Spiral I.D. Toward Combustion,""Special Alloy"", For Ultra Low Sulfur Diesel
Spring	Both	160-1190	2.400 Length,OEM # 682064
Rotator	Exh	161-1033	W/ Oil Shield,OEM # 1811581
Injector Tubes and Components		240-1024	Brass Material,Injector Tube,OEM # 675442C1

61 420 C.I., (6.9L), 420, Diesel, OHV, 16 valve, VIN D, ""1983-87"" IHN6.9
 V8 420 CID BORE - 101.6mm/4.00""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-38	1 ⁷ / ₈ O.D.,1 ⁵ / ₁₆ I.D., ³ / ₁₆ Depth,To Be Used In Most Early A & B Castings Due To Thin Wall Sections, 1983-84
		SB1937-23	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D., ³ / ₁₆ Depth,Cannot Be Used In Early Year A & B Castings Because Of Thin Casting, 1985-87
		SB1957ST	1.957 O.D.,1.563T I.D.,0.3130 Depth,NOTE: Small Stepped O.D. Dimension Is 1.755,Alternate Stepped O.D., Can Be Used in Thin Wall Casting
	Exh	SB1669E-1	1.669 O.D.,1.372T I.D.,0.2720 Depth,OEM # 1805249C1, Non-Magnetic
Valve	Int	01543	1.877 Head Diameter,Valve Has .010 Larger Margin To Save Seat Replacement; Early Head That Use C1 Valve W/ Large Margin Will Need Seat Replacement To Attain Correct Installed Height, +15 O/S Stem Available
	Exh	01542	1.595 Head Diameter,Valve Has .010 Larger Margin To Save Seat Replacement; Early Heads That Use C1 Valves W/ Large Margins Will Need Seat Replacement To Attain Correct Installed Height
		01542S	1.595 Head Diameter,Stellite Face,Valve Has .010 Larger Margin To Save Seat Replacement, Early Heads That Use C1 Valve W/ Large Margins Will Need Seat Replacement To Attain Correct Installed Height, +15 O/S Stem Available
Keeper	Both	121-1007	1 SQ Bead Type,OEM # 41339
Stem Seal	Exh	122-1059	Umbrella Type,GF Nylon Material,Umbrella Style
	Both	122-1330	Positive Type,Viton Material,Spring & Band Style,OEM # 1804420
Guide	Both	140-7689	0.3745 I.D.,2.600 Length,0.6250 O.D.,OEM Repair Version Check O.D, OEM # 1805407
		140-7712	0.3740 I.D.,2.600 Length,0.6268 O.D.,Plain I.D. Conversion Guide,For Use W/ ⁵ / ₈ Reamer, +2 O/S Available
Spring	Both	160-1206	2.050 Length,W/ Damper,OEM # 317365-C11
Lifter	Both	VL114	Hydraulic Roller Type
Rocker Components	Both	181-1060	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Retainer,OEM # 1809417C91
Push Rod	Both	190-1531	9.993 Length,Install Bronze Colored End Toward Rocker Arm.

(Cont'd) **I.H.C. NAVISTAR / HEAVY DUTY**

436 C.I., (7.1L), D436/DT436, Diesel, OHV, 12 Valve, ""N/A & TURBO""
L6 436 CID

DT436 **62**

BORE - 109.22mm/4.30""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2001E-1	2.001 O.D.,1.712T I.D.,0.3860 Depth,+10, & +13 O/S Available,OEM # 671559
	Exh	SB1628E-1N	1.628 O.D.,1.348T I.D.,0.3650 Depth,+10, +13 O/S Available,OEM # 671563
Valve	Int	01423	1.970 Head Diameter,OEM # 675046
	Exh	01422S	1.600 Head Diameter,Stellite Face,OEM # 676865
Keeper	Both	121-1007	1 SQ Bead Type,OEM # 41339
Stem Seal	Exh	122-1177	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 681234C1
Guide	Both	140-7431	0.3745 I.D.,2.750 Length,0.6263 O.D.,Spiral I.D. Toward Combustion,OEM # 675439C1
		140-7431SA	0.3745 I.D.,2.750 Length,0.6263 O.D.,Spiral I.D. Toward Combustion,""Special Alloy"", For Ultra Low Sulfur Diesel
Spring	Both	160-1190	2.400 Length,OEM # 682064
Rotator	Exh	161-1033	W/ Oil Shield,OEM # 1811581
Lifter	Both	170-1012	Mechanical Type,OEM # 911776R3
Injector Tubes and Components		240-1024	Brass Material,Injector Tube,OEM # 675442C1

444 C.I., (7.3L), 444, Diesel, OHV, 16 Valve, ""1988-95 IDI""
V8 444 CID

IHN7.3 **63**

BORE - 104.38mm/4.109""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-38	1 ⁷ / ₈ O.D.,1 ⁵ / ₈ I.D., ³ / ₁₆ Depth,To Be Used In 1988-89 Castings Due To Thin Wall Sections
		SB1937-23	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D., ³ / ₁₆ Depth,Cannot Be Used In Early Year A & B Castings Because Of Thin Casting, 1990-95
		SB1957ST	1.957 O.D.,1.563T I.D.,0.3130 Depth,NOTE: Small Stepped O.D. Dimension Is 1.755,Alternate Stepped O.D., Can Be Used in Thin Wall Casting, 1988-95
	Exh	SB1669E-1	1.669 O.D.,1.372T I.D.,0.2720 Depth,OEM # 1805249C1, Cannot Be Used In 1988-89 Heads Due To Thin Castings, Non-Magnetic, 1990-95
Valve	Int	01543	1.877 Head Diameter,Valve Has .010 Larger Margin To Save Seat Replacement; Early Head That Use C1 Valve W/ Large Margin Will Need Seat Replacement To Attain Correct Installed Height, +15 O/S Stem Available
	Exh	01542	1.595 Head Diameter,Valve Has .010 Larger Margin To Save Seat Replacement; NOTE: Except Turbo
		01542S	1.595 Head Diameter,Stellite Face,Valve Has .010 Larger Margin To Save Seat Replacement, +15 O/S Stem Available
Keeper	Both	121-1007	1 SQ Bead Type,OEM # 41339
Stem Seal	Exh	122-1059	Umbrella Type,GF Nylon Material,Umbrella Style
	Both	122-1330	Positive Type,Viton Material,Spring & Band Style,OEM # 1804420
Guide	Both	140-7689	0.3745 I.D.,2.600 Length,0.6250 O.D.,OEM Repair Version Check O.D, OEM # 1805407
		140-7712	0.3740 I.D.,2.600 Length,0.6268 O.D.,Plain I.D. Conversion Guide,For Use W/ ⁵ / ₈ Reamer, +2 O/S Available
Spring	Both	160-1206	2.050 Length,W/ Damper,OEM # 317365-C11
Lifter	Both	VL114	Hydraulic Roller Type
Rocker Components	Both	181-1060	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Retainer,OEM # 1809417C91
Push Rod	Both	190-1531	9.993 Length,Install Bronze Colored End Toward Rocker Arm.

I.H.C. NAVISTAR / HEAVY DUTY (Cont'd)

64 444 C.I., (7.3L), 444T, Diesel, OHV, 16 Valve, ""1993-95 IDI TURBO"" 7.3T
V8 444 CID BORE - 104.38mm/4.109""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1937-23 SB1957ST	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., ³ / ₁₆ Depth 1.957 O.D., 1.563T I.D., 0.3130 Depth, NOTE: Small Stepped O.D. Dimension Is 1.755, Alternate Stepped O.D., Can Be Used in Thin Wall Casting
	Exh	SB1669E-1	1.669 O.D., 1.372T I.D., 0.2720 Depth, OEM # 1805249C1, Non-Magnetic
Valve	Int	01543	1.877 Head Diameter, Valve Has .010 Larger Margin To Save Seat Replacement; Early Head That Use C1 Valve W/ Large Margin Will Need Seat Replacement To Attain Correct Installed Height, +15 O/S Stem Available
	Exh	01785	1.680 Head Diameter, OEM # 1823453
		01754	1.595 Head Diameter, Inconel, Valve Has .010 Larger Margin To Save Seat Replacement
		01786	1.680 Head Diameter, OEM # 1823452
Keeper	Both	121-1007	1 SQ Bead Type, OEM # 41339D, Indirect Injection
		121-1011	1 SQ Bead Type, OEM # 1810944
Stem Seal	Exh	122-1059	Umbrella Type, GF Nylon Material, Umbrella Style
	Both	122-1330	Positive Type, Viton Material, Spring & Band Style, OEM # 1804420C91
		122-1333	Positive Type, Viton Material, Top Hat Style, OEM # 1816179
Guide	Both	140-7689	0.3745 I.D., 2.600 Length, 0.6250 O.D., OEM Repair Version Check O.D
		140-7712	0.3740 I.D., 2.600 Length, 0.6268 O.D., Plain I.D. Conversion Guide, For Use W/ ⁵ / ₈ Reamer, +2 O/S Available
		140-8476	0.3146 I.D., 2.440 Length, 0.5651 O.D., OEM # 1822862
Spring	Both	160-1206	2.050 Length, W/ Damper, OEM # 317365-C11
Lifter	Both	VL114	Hydraulic Roller Type
Rocker Components	Both	181-1060	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Retainer, OEM # 1809417C91
Push Rod	Both	190-1531	9.993 Length, Install Bronze Colored End Toward Rocker Arm.

65 444 C.I., (7.3L), 444TE, Diesel, OHV, 16 Valve, ""Powersroke DI TURBO"" 444TE
V8 444 CID BORE - 104.38mm/4.109""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-4	1 ³ / ₄ O.D., 1 ⁷ / ₁₆ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material, Must Cut Seat Angle to 30 Degree
	Exh	SB1750-4N	1 ³ / ₄ O.D., 1 ⁷ / ₁₆ I.D., ¹ / ₄ Depth, Must Cut Seat Angle To 37.5 Degrees
Valve	Int	01785	1.680 Head Diameter, W/ .3122 Stem Dia., 30 Degree Seat Angle
	Exh	01786	1.680 Head Diameter, W/ .3122 Stem Dia., 37.5 Degree Seat Angle
Keeper	Both	121-1011	1 SQ Bead Type
Stem Seal	Both	122-1333	Positive Type, Viton Material, Top Hat Style, OEM # 1816179C91
Guide	Int	140-8476	0.3146 I.D., 2.440 Length, 0.5651 O.D., OEM # 1820264C1, For ⁵ / ₁₆ Stem, OEM Replacement, Check Press Fit
	Exh	140-8562	0.3145 I.D., 2.440 Length, 0.5640 O.D., Use W/ Std. ⁹ / ₁₆ Tooling
Spring	Both	160-1206	2.050 Length, W/ Damper, OEM # 317365C11
Lifter	Both	VL114	Hydraulic Roller Type
Push Rod	Both	190-1538	10.240 Length, OEM # F4TZ6565A, Note: Copper Color end MUST Install Towards Rocker Arm.
Head Bolt Set		220-1109	Torque To Yield, 2 Required
Injector Tubes and Components		240-1026	Brass Material, Injector Tube, OEM # 1814376C1

(Cont'd) **I.H.C. NAVISTAR / HEAVY DUTY**

446 C.I., (7.3L), MV446, Gas, OHV, 16 Valve
V8 446 CID

MV446 66
BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2125-1	2 $\frac{1}{8}$ O.D., 1 $\frac{13}{16}$ I.D., $\frac{1}{4}$ Depth
	Exh	SB1654E-1N	1.654 O.D., 1.367 I.D., 0.3120 Depth, OEM # 446856C1
Valve	Int	01432	2.054 Head Diameter, OEM # 488428C1
	Exh	01431S	1.535 Head Diameter, Stellite Face, OEM # 446854C1
Keeper	Both	121-1007	1 SQ Bead Type, OEM # 41339D
Guide	Int	140-7174	0.3745 I.D., 2.600 Length, 0.6252 O.D., OEM # 446723C1
Spring	Both	160-1206	2.050 Length, W/ Damper, OEM # 317365C11
Lifter	Both	VL89	Hydraulic Type, OEM # 387095C1

450 C.I., (7.3L), RD450, Gas, OHV, 12 Valve, ""1954-69""
L6 450 CID

RED450 67
BORE - 111mm/4.370"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1625-3N	1 $\frac{5}{8}$ O.D., 1 $\frac{5}{16}$ I.D., $\frac{1}{4}$ Depth

450 C.I., (7.3L), RD450A, Gas, OHV, 12 Valve
L6 450 CID

RED450A 68
BORE - 111mm/4.370"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1625-3N	1 $\frac{5}{8}$ O.D., 1 $\frac{5}{16}$ I.D., $\frac{1}{4}$ Depth

461 C.I., (7.5L), V461, Gas, OHV, 16 Valve
V8 461 CID

IHNV461 69
BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2250-1	2 $\frac{1}{4}$ O.D., 1 $\frac{15}{16}$ I.D., $\frac{3}{16}$ Depth
	Exh	SB2000-3C	2.000 O.D., 1 $\frac{5}{8}$ I.D., 19/64 Depth, Optional Stellite
		SB2000-3N	2.000 O.D., 1 $\frac{5}{8}$ I.D., 19/64 Depth
Keeper	Both	121-1009	1 SQ Bead Type, OEM # 61868R11
Guide	Int	140-1817	0.4385 I.D., 3.063 Length, 0.6265 O.D., OEM # 133670R1
Spring	Both	160-1206	2.050 Length, W/ Damper, OEM # 317365C11

466 C.I., (7.6L), DT466E, Diesel, OHV, 12 Valve, ""HEUI Electronic Inj. ""
L6 466 CID

DT466E 70
BORE - 109.22mm/4.30"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1823E-1	1.823 O.D., 1.560T I.D., 0.2730 Depth, OEM # 1821901-C1, Use W/ 1.786 Valve Head Diameter; NOTE: This Is .002 O/S Of Standard OEM # 1821900-C1 & C3
		SB2001E-1	2.001 O.D., 1.712T I.D., 0.3860 Depth, +10, & +13 O/S Available, OEM # 671559C1, 675043C1; NOTE: Alternate 0.030 Taller Seat To Be Used W/ 1.970 Valve Head Diameter, NOTE: Seat Will Need To Be Machined In Order To Achieve Correct Depth
			2.001 O.D., 1.712T I.D., 0.3560 Depth, OEM # 1827121C2; NOTE: Use W/ 1.970 Head, For Oversizes Use SB2001E-1
	Exh	SB1811E-2N	1.811 O.D., 1.548T I.D., 0.3340 Depth, +15 O/S Available, OEM # 1821903-C1, 1821903-C3
		SB1811E-3	1.811 O.D., 1.548T I.D., 0.3340 Depth, OEM # 1830711-C1
Valve	Int	01945	1.786 Head Diameter, 30 Degree Seat, OEM # 1823875-C1
		02131	1.970 Head Diameter, 5.992 Overall Length, OEM # 1826471-C1, 1826471-C2, 1842913C1
	Exh	01946S	1.786 Head Diameter, Stellite Face, 45 Degree Seat, OEM # 1824840-C1, 1824840-C2, 1842912-C1
Keeper	Both	121-1091	1 RD Bead Type, For $\frac{3}{8}$ Valve Stem, OEM # 1824644C1
Stem Seal	Both	122-1320	Positive Type, Viton Material, Top Hat Style, Green Seal, OEM # 1823925C1, W/ $\frac{3}{8}$ Stem Dia.,

I.H.C. NAVISTAR / HEAVY DUTY (Cont'd)

70 466 C.I., (7.6L), DT466E, Diesel, OHV, 12 Valve, ""HEUI Electronic Inj."" DT466E
 (cont.) L6 466 CID BORE - 109.22mm/4.30""

PART		PART NO.	NOTES
Stem Seal	Both	122-1426	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 1824683C1, NOTE: Use With 161-1046 Rotator
Guide	Both	140-8188	0.3745 I.D.,2.610 Length,0.6263 O.D.,Spiral I.D. Toward Combustion,OEM # 1815264C1
		140-8188SA	0.3745 I.D.,2.610 Length,0.6263 O.D.,Spiral I.D. Toward Combustion,""Special Alloy"", For Ultra Low Sulfur Diesel
Spring	Int	160-1416	2.357 Length,OEM # 677349-C1
	Exh	160-1417	2.580 Length,OEM # 1825540-C1
Rotator	Both	161-1046	OEM # 1824680-C1, W/ 3/8 Stem Dia., NOTE: Includes Oil Shield 1824683C1
Injector Tubes and Components		240-1025	Stainless Steel Material,Injector Tube,OEM # 1818778C1, 1818778C2, 1818778C3; NOTE: Early, ESN 980820 - 1194038 Years 1995-1999
		240-1027	Stainless Steel Material,Injector Tube,OEM # 1833382C1; NOTE: Late, ESN 1194039 - Up, To MY2004

71 466 C.I., (7.6L), DT466P, Diesel, OHV, 12 Valve, ""Mechanical Inj. TURBO"" DT466P
 L6 466 CID BORE - 109.22mm/4.30""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1999E-1	1.999 O.D.,1.712T I.D.,0.3860 Depth,OEM # 675043-C1
	Exh	SB1626E-1N	1.626 O.D.,1.348T I.D.,0.3650 Depth,OEM # 675450C3
Valve	Int	01899	1.970 Head Diameter,5/16 Stem Dia., Use W/ 140-8476 Guide , OEM # 1818580-C1
		01943	1.970 Head Diameter,3/8 Stem Dia., OEM # 1824642-C1/C2
	Exh	01900S	1.600 Head Diameter,Stellite Face,5/16 Stem Dia., Use W/ 140-8476 Guide, OEM # 1818579-C1, 1824838-C1
		01944S	1.600 Head Diameter,Stellite Face,3/8 Stem Dia., OEM # 1824842-C1
Keeper	Both	121-1011	1 SQ Bead Type,For 5/16 Valve Stem, After S/N 888340, OEM # 1810944C1
		121-1091	1 RD Bead Type,For 3/8 Valve Stem, OEM # 1824644C1
Stem Seal	Both	122-1300	Positive Type,Viton Material,Top Hat Style,W/ 5/16 Stem Dia., OEM # 1822245C1
		122-1320	Positive Type,Viton Material,Top Hat Style,Green Seal,W/ 3/8 Stem Dia., OEM # 1823925-C1, For Head Assy. # 1824639-C92,
		122-1426	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 1824683C1, NOTE: Use With 161-1046 Rotator
Guide	Both	140-3006	0.3745 I.D.,2.395 Length,0.6265 O.D.,OEM # 1824646-C1, For 3/8 Stem
		140-8476	0.3146 I.D.,2.440 Length,0.5651 O.D.,For 5/16 Stem, OEM # 1820264-C1
Spring	Int	160-1416	2.357 Length,OEM # 677349-C1
	Exh	160-1417	2.580 Length,OEM # 1825540-C1
Rotator	Both	161-1046	OEM # 1824680-C1, W/ 3/8 Stem Dia., NOTE: Includes Oil Shield 1824683C1
		161-1049	OEM # 1820826-C91, W/ 5/16 Stem Dia., Includes Oil Shield
Injector Tubes and Components		240-1024	Brass Material,Injector Tube,OEM # 675442C1

72 466 C.I., (7.6L), MAXX-DT466, Diesel, OHV, 24 Valve, ""MaxxFace DT TURBO"" MAXX-DT466-24V
 L6 466 CID BORE - 109.22mm/4.30""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1584E-1	1.584 O.D.,1.328T I.D.,1/4 Depth,+10 O/S Available,OEM # 1835851C1, 1842137C1
	Exh	SB1480E-2	1.480 O.D.,1.288T I.D.,1/4 Depth,+10 O/S Available,OEM # 1835852C1, 1842138C1
Valve	Int	13002	1.564 Head Diameter,OEM # 1839968C1

(Cont'd) **I.H.C. NAVISTAR / HEAVY DUTY**

466 C.I., (7.6L), MAXX-DT466, Diesel, OHV, 24 Valve, ""MaxxForce DT
TURBO""

72
MAXX-DT466-24V (cont.)
BORE - 109.22mm/4.30""

L6 466 CID

PART		PART NO.	NOTES
Valve	Exh	13003	1.439 Head Diameter,OEM # 1839970C1, 1842145C2
Keeper	Both	121-1085	1 RD Bead Type,OEM # 1841566C1
Stem Seal	Both	122-1460	Positive Type,Viton Material,Top Hat Style,Black,OEM # 1833432C1, 1889589C1
Guide	Both	140-3079	0.3140 I.D.,2.585 Length,0.5655 O.D.,OEM # 1841538C1, 1850019C1
Spring	Both	160-1489	2.158 Length,OEM # 1835858C1, 1842146C1
Rotator	Both	161-1059	OEM # 1835655C1
Injector Tubes and Components		240-1033	Stainless Steel Material,Injector Tube,OEM # 1841095C1

466 C.I., (7.6L),D466, Diesel, OHV, 12 Valve

D466 73
BORE - 109.22mm/4.30""

L6 466 CID

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2001E-1	2.001 O.D.,1.712T I.D.,0.3860 Depth,+10, & +13 O/S Available,OEM # 671559C1
	Exh	SB1628E-1N	1.628 O.D.,1.348T I.D.,0.3650 Depth,+10, +13 O/S Available,OEM # 675450C3
Valve	Int	01423	1.970 Head Diameter,0.372 Stem Dia., Early Heads That Use C1 Or C2 Valves W/ Small Margins Will Need The Seats Recessed Or Valves Refaced To Attain Correct Installed Height
	Exh	01422S	1.600 Head Diameter,Stellite Face,0.371 Stem Dia., Early Heads That Use C1 Or C2 Valves W/ Small Margins Will Need The Seats Recessed Or Valves Refaced To Attain Correct Installed Height
Keeper	Both	121-1007	1 SQ Bead Type,OEM # 41339D
Stem Seal	Exh	122-1177	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 681234C1
	Both	122-1301	Positive Type,Viton Material,Top Hat Style,Orange Seal,OEM # 1815374-C1, 1.290 Height, Use W/ Long Guide 140-7431
		122-1320	Positive Type,Viton Material,Top Hat Style,Green Seal,W/ 3/8 Stem Dia., OEM # 1823925-C1, 1.120 Height. Use W/ Short Guide 140-8188
Guide	Both	140-7431	0.3745 I.D.,2.750 Length,0.6263 O.D.,Spiral I.D. Toward Combustion,To 1989, OEM # 675439C1
		140-7431SA	0.3745 I.D.,2.750 Length,0.6263 O.D.,Spiral I.D. Toward Combustion,""Special Alloy"", For Ultra Low Sulfur Diesel
		140-8188	0.3745 I.D.,2.610 Length,0.6263 O.D.,Spiral I.D. Toward Combustion,OEM # 1824647C1, From 1990
		140-8188SA	0.3745 I.D.,2.610 Length,0.6263 O.D.,Spiral I.D. Toward Combustion,""Special Alloy"", For Ultra Low Sulfur Diesel
Spring	Both	160-1190	2.400 Length,OEM # 682064C1
Rotator	Exh	161-1033	W/ Oil Shield,OEM # 1811581C91
Lifter	Both	170-1012	Mechanical Type,0.997 Body Dia., Non-Roller, OEM # 911776-R3
Injector Tubes and Components		240-1024	Brass Material,Injector Tube,OEM # 675442C1

466 C.I., (7.6L), DT-DTA466, Diesel, OHV, 12 Valve, ""TURBO""

DTA466 74
BORE - 109.22mm/4.30""

L6 466 CID

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2001E-1	2.001 O.D.,1.712T I.D.,0.3860 Depth,+10, & +13 O/S Available,OEM # 671559
	Exh	SB1628E-1N	1.628 O.D.,1.348T I.D.,0.3650 Depth,+10, +13 O/S Available,OEM # 671563
Valve	Int	01423	1.970 Head Diameter,OEM # 675046

I.H.C. NAVISTAR / HEAVY DUTY (Cont'd)

74 466 C.I., (7.6L), DT-DTA466, Diesel, OHV, 12 Valve, ""TURBO"" DTA466
 (cont.) L6 466 CID BORE - 109.22mm/4.30""

PART		PART NO.	NOTES
Valve	Exh	01422S	1.600 Head Diameter,Stellite Face,OEM # 676865
Keeper	Both	121-1007	1 SQ Bead Type,OEM # 41339
Stem Seal	Exh	122-1177	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 681234C1
	Both	122-1301	Positive Type,Viton Material,Top Hat Style,Orange Seal,OEM # 1815374
Guide	Both	140-7431	0.3745 I.D.,2.750 Length,0.6263 O.D.,Spiral I.D. Toward Combustion,OEM # 675439C1
		140-7431SA	0.3745 I.D.,2.750 Length,0.6263 O.D.,Spiral I.D. Toward Combustion,""Special Alloy"", For Ultra Low Sulfur Diesel
Spring	Both	160-1190	2.400 Length,OEM # 682064
Rotator	Exh	161-1033	W/ Oil Shield,OEM # 1811581
Lifter	Both	170-1012	Mechanical Type,OEM # 911776R3
Injector Tubes and Components		240-1024	Brass Material,Injector Tube,OEM # 675442C1

75 466 C.I., (7.6L), DTA466C, Diesel, OHV, 12 Valve, ""TURBO"" DTA466C
L6 466 CID BORE - 109.22mm/4.30""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2001E-1	2.001 O.D.,1.712T I.D.,0.3860 Depth,+10, & +13 O/S Available,OEM # 671559
	Exh	SB1628E-1N	1.628 O.D.,1.348T I.D.,0.3650 Depth,+10, +13 O/S Available,OEM # 671563
Valve	Int	01423	1.970 Head Diameter,OEM # 675046
	Exh	01422S	1.600 Head Diameter,Stellite Face,OEM # 676865
Keeper	Both	121-1007	1 SQ Bead Type,OEM # 41339
Stem Seal	Exh	122-1177	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 681243C1
	Both	122-1301	Positive Type,Viton Material,Top Hat Style,Orange Seal,OEM # 1815374
Guide	Both	140-7431	0.3745 I.D.,2.750 Length,0.6263 O.D.,Spiral I.D. Toward Combustion,OEM # 675439C1
		140-7431SA	0.3745 I.D.,2.750 Length,0.6263 O.D.,Spiral I.D. Toward Combustion,""Special Alloy"", For Ultra Low Sulfur Diesel
Spring	Both	160-1190	2.400 Length,OEM # 682064
Rotator	Exh	161-1033	W/ Oil Shield,OEM # 1811581
Lifter	Both	170-1012	Mechanical Type,OEM # 911776R3
Injector Tubes and Components		240-1024	Brass Material,Injector Tube,OEM # 675442C1

76 466 C.I., (7.6L), DTI466B, Diesel, OHV, 12 Valve, ""TURBO"" DTI466B
L6 466 CID BORE - 109.22mm/4.30""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2001E-1	2.001 O.D.,1.712T I.D.,0.3860 Depth,+10, & +13 O/S Available,OEM # 675043C1
	Exh	SB1628E-1N	1.628 O.D.,1.348T I.D.,0.3650 Depth,+10, +13 O/S Available,OEM # 675450C1
Valve	Int	01423	1.970 Head Diameter,Early Heads That Use C1 Or C2 Valves W/ Small Margins Will Need The Seats Recessed Or Valves Refaced To Attain Correct Installed Height
	Exh	01422S	1.600 Head Diameter,Stellite Face,Early Heads That Use C1 Or C2 Valves W/ Small Margins Will Need The Seats Recessed Or Valves Refaced To Attain Correct Installed Height
Keeper	Both	121-1007	1 SQ Bead Type,OEM # 41339D, 0.371 Stem Dia.

(Cont'd) I.H.C. NAVISTAR / HEAVY DUTY**466 C.I., (7.6L), DTI466B, Diesel, OHV, 12 Valve, ""TURBO""**
L6 466 CID**DTI466B 76**
BORE - 109.22mm/4.30"" (cont.)

PART		PART NO.	NOTES
Stem Seal	Exh	122-1177	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 681234C1
	Both	122-1301	Positive Type,Viton Material,Top Hat Style,Orange Seal,OEM # 1815374-C1
		122-1320	Positive Type,Viton Material,Top Hat Style,Green Seal,OEM # 1823925-C1
Guide	Both	140-7431	0.3745 I.D.,2.750 Length,0.6263 O.D.,Spiral I.D. Toward Combustion,OEM # 675439C1, To 1989
		140-7431SA	0.3745 I.D.,2.750 Length,0.6263 O.D.,Spiral I.D. Toward Combustion, ""Special Alloy"", For Ultra Low Sulfur Diesel
		140-8188	0.3745 I.D.,2.610 Length,0.6263 O.D.,Spiral I.D. Toward Combustion,OEM # 1815264C1, From 1990
		140-8188SA	0.3745 I.D.,2.610 Length,0.6263 O.D.,Spiral I.D. Toward Combustion, ""Special Alloy"", For Ultra Low Sulfur Diesel
Spring	Both	160-1190	2.400 Length,OEM # 682064C1
Rotator	Exh	161-1033	W/ Oil Shield,OEM # 1811581C91
Lifter	Both	170-1012	Mechanical Type,0.997 Body Dia., Non-Roller, OEM # 911776-R3
Injector Tubes and Components		240-1024	Brass Material,Injector Tube,OEM # 675442C1

478 C.I., (7.8L), V478, Gas, OHV, 16 Valve
V8 478 CID**V478 77**
BORE - 114.3mm/4.50""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2250-1	2¼ O.D.,1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	SB2000-3C	2.000 O.D.,1 ⁵ / ₈ I.D.,19/64 Depth,Optional Stellite
		SB2000-3N	2.000 O.D.,1 ⁵ / ₈ I.D.,19/64 Depth,OEM # 379089C1
Keeper	Both	121-1009	1 SQ Bead Type,OEM # 61868R11
Stem Seal	Both	122-1043	O-Ring Type,Nitrile Material,O-Ring Style,1800, F1800
Guide	Int	140-1817	0.4385 I.D.,3.063 Length,0.6265 O.D.,OEM # 133670R1
Spring	Both	160-1206	2.050 Length,W/ Damper,OEM # 317365C11, Late Engines

478 C.I., (7.8L), VS478, Gas, OHV, 16 Valve
V8 478 CID**VS478 78**
BORE - 107.95mm/4.250""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2250-1	2¼ O.D.,1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	SB2000-3C	2.000 O.D.,1 ⁵ / ₈ I.D.,19/64 Depth,Optional Stellite
		SB2000-3N	2.000 O.D.,1 ⁵ / ₈ I.D.,19/64 Depth,OEM # 379089C1
Keeper	Both	121-1009	1 SQ Bead Type,OEM # 61868R11
Stem Seal	Both	122-1043	O-Ring Type,Nitrile Material,O-Ring Style,Late Design W/ Integral Cast Guide & Single Spring
Guide	Int	140-1817	0.4385 I.D.,3.063 Length,0.6265 O.D.,OEM # 133670R1
Spring	Both	160-1206	2.050 Length,W/ Damper,OEM # 317365C11, Late Engines

501 C.I., (8.2L), RD501, Gas, OHV, 12 Valve
L6 501 CID**RD501 79**
BORE - 114.2mm/4.496""

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1875-1N	1 ⁷ / ₈ O.D.,1 ⁵ / ₈ I.D.,¼ Depth

I.H.C. NAVISTAR / HEAVY DUTY (Cont'd)

80 530 C.I., (8.7L), 530E, Diesel, OHV, 12 Valve, "" HEUI Electrical Inj."" **530E**
 L6 530 CID **BORE - 116.57mm/4.589""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1823E-1	1.823 O.D.,1.560T I.D.,0.2730 Depth,OEM # 1821901-C1, Use W/ 1.786 Valve Head Diameter; NOTE: This Is .002 O/S Of Standard OEM # 1821900-C1 & C3
		SB2001E-1	2.001 O.D.,1.712T I.D.,0.3860 Depth,+10, & +13 O/S Available,OEM # 671559C1, 675043C1; NOTE: Alternate 0.030 Taller Seat To Be Used W/ 1.970 Valve Head Diameter, NOTE: Seat Will Need To Be Machined In Order To Achieve Correct Depth
	Exh	SB2001E-2	2.001 O.D.,1.712T I.D.,0.3560 Depth,OEM # 1827121C2; NOTE: Use W/ 1.970 Head, For Oversizes Use SB2001E-1
		SB1811E-2N	1.811 O.D.,1.548T I.D.,0.3340 Depth,+15 O/S Available,OEM # 1821903-C3
		SB1811E-3	1.811 O.D.,1.548T I.D.,0.3340 Depth,OEM # 1830711-C1
Valve	Int	01945	1.786 Head Diameter,30 Degree Seat, OEM # 1823875-C1
		02131	1.970 Head Diameter,5.992 Overall Length, OEM # 1826471C2, 1826471C1, 1842913C1
	Exh	01946S	1.786 Head Diameter,Stellite Face,45 Degree Seat, OEM # 1824840-C1, 1824840-C2, 1842912-C1
Keeper	Both	121-1091	1 RD Bead Type,For 3/8 Valve Stem, OEM # 1824644C1
Stem Seal	Both	122-1320	Positive Type,Viton Material,Top Hat Style,Green Seal,W/ 3/8 Stem Dia., OEM # 1823925-C1,
		122-1426	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 1824683C1, NOTE: Use With 161-1046 Rotator
Guide	Both	140-8188	0.3745 I.D.,2.610 Length,0.6263 O.D.,Spiral I.D. Toward Combustion,OEM # 1815264C1
		140-8188SA	0.3745 I.D.,2.610 Length,0.6263 O.D.,Spiral I.D. Toward Combustion,""Special Alloy"" , For Ultra Low Sulfur Diesel
Spring	Int	160-1416	2.357 Length,OEM # 677349-C1
	Exh	160-1417	2.580 Length,OEM # 1825540-C1
Rotator	Both	161-1046	OEM # 1824680-C1, W/ 3/8 Stem Valve., NOTE: Includes Oil Shield 1824683C1
Injector Tubes and Components		240-1025	Stainless Steel Material,Injector Tube,OEM # 1818778C1, 1818778C2, 1818778C3; NOTE: Early, ESN 980820 - 1194038 Years 1995-1999
		240-1027	Stainless Steel Material,Injector Tube,OEM # 1833382C1; NOTE: Late, ESN 1194039 - Up, To MY2004

81 530 C.I., (8.7L), 530P, Diesel, OHV, 12 Valve, ""Mechanical Inj."" **530P**
 L6 530 CID **BORE - 116.57mm/4.589""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1999E-1	1.999 O.D.,1.712T I.D.,0.3860 Depth,OEM # 675043-C1
	Exh	SB1626E-1N	1.626 O.D.,1.348T I.D.,0.3650 Depth,OEM # 675450C3
Valve	Int	01899	1.970 Head Diameter,5/16 Stem Dia., OEM # 1818580-C1
		01943	1.970 Head Diameter,3/8 Stem Dia., OEM # 1824642-C1/C2
	Exh	01900S	1.600 Head Diameter,Stellite Face,5/16 Stem Dia., OEM # 1818579-C1, 1824838-C1
		01944S	1.600 Head Diameter,Stellite Face,3/8 Stem Dia., OEM # 1824842-C1
Keeper	Both	121-1011	1 SQ Bead Type,For 5/16 Valve Stem, OEM # 1810944C1
Stem Seal	Both	122-1300	Positive Type,Viton Material,Top Hat Style,W/ 5/16 Stem Dia., OEM # 1822245C1
		122-1320	Positive Type,Viton Material,Top Hat Style,Green Seal,W/ 3/8 Stem Dia., OEM # 1823925-C1,
		122-1426	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 1824683C1, NOTE: Use With 161-1046 Rotator
Guide	Both	140-3006	0.3745 I.D.,2.395 Length,0.6265 O.D.,OEM # 1824646-C1, For 3/8 Stem

(Cont'd) **I.H.C. NAVISTAR / HEAVY DUTY**

530 C.I., (8.7L), 530P, Diesel, OHV, 12 Valve, ""Mechanical Inj."" **530P 81**
L6 530 CID BORE - 116.57mm/4.589"" (cont.)

PART		PART NO.	NOTES
Guide	Both	140-8476	0.3146 I.D.,2.440 Length,0.5651 O.D.,For 5/16 Stem, OEM Replacement, OEM # 1820264-C1, Check Press Fit
Spring	Int	160-1416	2.357 Length,OEM # 677349-C1
	Exh	160-1417	2.580 Length,OEM # 1825540-C1
Rotator	Both	161-1046	OEM # 1824680-C1, W/ 3/8 Stem Dia., NOTE: Includes Oil Shield 1824683C1
		161-1049	OEM # 1820826-C91, W/ 5/16 Stem Dia., Includes Oil Shield
Injector Tubes and Components		240-1024	Brass Material,Injector Tube,OEM # 675442C1

537 C.I., (8.8L), V537, Gas, OHV, 16 valve **V537 82**
V8 537 CID BORE - 117.475mm/4.625""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2250-1	2 1/4 O.D.,1 15/16 I.D.,3/16 Depth
	Exh	SB2000-3C	2.000 O.D.,1 1/8 I.D.,19/64 Depth,Optional Stellite
		SB2000-3N	2.000 O.D.,1 1/8 I.D.,19/64 Depth,OEM # 379089C1
Valve	Int	01507	2.157 Head Diameter,OEM # 448453C2
	Exh	01508	2.157 Head Diameter,Opt. Exh Material, 45 Degree Seat, OEM # 448202C1
		01506S	1.805 Head Diameter,Stellite Face,All, OEM # 448454C1
Keeper	Both	121-1009	1 SQ Bead Type,OEM # 61868R11
Guide	Int	140-7457	0.4385 I.D.,3.060 Length,0.6888 O.D.,OEM # 448219C2
	Exh	140-7456	0.4385 I.D.,3.060 Length,0.6887 O.D.,Heat Treated High Strength Alloy,OEM # 448229C1
Spring	Both	160-1206	2.050 Length,W/ Damper,Late Engines, OEM # 317365C11

549 C.I., (9.0L), V549, FTV549, Gas, OHV, 16 Valve **V549 83**
V8 549 CID BORE - 114.3mm/4.50""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2250-1	2 1/4 O.D.,1 15/16 I.D.,3/16 Depth
	Exh	SB2000-3C	2.000 O.D.,1 1/8 I.D.,19/64 Depth,Optional Stellite
		SB2000-3N	2.000 O.D.,1 1/8 I.D.,19/64 Depth
Keeper	Both	121-1009	1 SQ Bead Type
Stem Seal	Both	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
Guide	Int	140-1817	0.4385 I.D.,3.063 Length,0.6265 O.D.
Spring	Both	160-1206	2.050 Length,W/ Damper,Late Engines

549 C.I., (9.0L), VS549, FTVS549, Gas, OHV, 16 Valve **VS549 84**
V8 549 CID BORE - 114.3mm/4.50""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2250-1	2 1/4 O.D.,1 15/16 I.D.,3/16 Depth
	Exh	SB2000-3C	2.000 O.D.,1 1/8 I.D.,19/64 Depth,Optional Stellite
		SB2000-3N	2.000 O.D.,1 1/8 I.D.,19/64 Depth,OEM # 379089C1
Keeper	Both	121-1009	1 SQ Bead Type,OEM # 61868R11
Stem Seal	Both	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
Guide	Int	140-1817	0.4385 I.D.,3.063 Length,0.6265 O.D.,OEM # 133670R1
Spring	Both	160-1206	2.050 Length,W/ Damper,OEM # 317365C11

I.H.C. NAVISTAR / HEAVY DUTY (Cont'd)

85 551 C.I., (9.0L), 551, Diesel, OHV, 16 Valve
V8 551 CID

IHN551
BORE- 114.55mm/4.510"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1973E-1	1.973 O.D., 1.658T I.D., 0.3000 Depth
	Exh	SB1775E-1	1.775 O.D., 1.458T I.D., 0.3000 Depth
Valve	Int	01649	1.924 Head Diameter
	Exh	01648	1.727 Head Diameter
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-7336	0.3753 I.D., 2.960 Length, 0.6890 O.D.
Spring	Both	160-1206	2.050 Length, W/ Damper, OEM # 317365C11

86 570 C.I., (9.3L), MAXX-9, Diesel, OHV, 24 Valve, ""MaxxForce 9 TURBO""
L6 570 CID

MAXX-9
BORE - 116.59mm/4.590"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1584E-1	1.584 O.D., 1.328T I.D., 1/4 Depth, +10 O/S Available, OEM # 1835851C1, 1842137C1
	Exh	SB1480E-2	1.480 O.D., 1.288T I.D., 1/4 Depth, +10 O/S Available, OEM # 1835852C1, 1842138C1
Valve	Int	13002	1.564 Head Diameter, OEM # 1839968C1
	Exh	13003	1.439 Head Diameter, OEM # 1839970C1, 1842145C2
Keeper	Both	121-1085	1 RD Bead Type, OEM # 1841588C1
Stem Seal	Both	122-1460	Positive Type, Viton Material, Top Hat Style, Black, OEM # 1833432C1, 1889589C1
Guide	Both	140-3079	0.3140 I.D., 2.585 Length, 0.5655 O.D., OEM # 1841538C1, 1850019C1
Spring	Both	160-1489	2.158 Length, OEM # 1835858C1, 1842146C1
Rotator	Both	161-1059	OEM # 1835655C1
Injector Tubes and Components		240-1033	Stainless Steel Material, Injector Tube, OEM # 1841095C1

87 605 C.I., (9.9L), V8-605, Gas, OHV, 16 Valve
V8 605 CID

IHN605
BORE - 117.475mm/4.625"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2250-1	2 1/4 O.D., 1 15/16 I.D., 3/16 Depth
	Exh	SB2000-3C	2.000 O.D., 1 1/8 I.D., 19/64 Depth, Optional Stellite
		SB2000-3N	2.000 O.D., 1 1/8 I.D., 19/64 Depth, OEM # 379089C1
Valve	Int	01507	2.157 Head Diameter, OEM # 487879C1
	Exh	01508	2.157 Head Diameter, Opt. Exh Material, 45 Degree Seat, OEM # 448202C1
		01506S	1.805 Head Diameter, Stellite Face, OEM # 448454C1
Keeper	Both	121-1009	1 SQ Bead Type, OEM # 61868R11
Guide	Int	140-7457	0.4385 I.D., 3.060 Length, 0.6888 O.D., OEM # 448219C2
	Exh	140-7456	0.4385 I.D., 3.060 Length, 0.6887 O.D., Heat Treated High Strength Alloy, OEM # 448229C1
Spring	Both	160-1206	2.050 Length, W/ Damper, OEM # 317365C11

88 758 C.I., (12.4L), MAXX-13, Diesel. SOHC, 24 Valve, ""MaxxForce 13 TURBO"" MAXX-13
L6 758 CID

BORE - 125.98mm/4.960"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1656E-2	1.656 O.D., 1.273T I.D., 0.3170 Depth
	Exh	SB1578E-1	1.578 O.D., 1.300T I.D., 0.3170 Depth
Valve	Int	13370	1.575 Head Diameter, Services Valves Marked 575T & 37C1
	Exh	13371	1.496 Head Diameter, Services Valves Marked 606T & 38C1
Keeper	Both	121-1133	3 RD Bead Type

(Cont'd) **I.H.C. NAVISTAR / HEAVY DUTY**

758 C.I., (12.4L), MAXX-13, Diesel. SOHC, 24 Valve, ""MaxxForce 13 TURBO"" MAXX-13 88
L6 758 CID BORE - 125.98mm/4.960"" (cont.)

PART	PART NO.	NOTES
Stem Seal	Both 122-1466	Positive Type, Viton Material, Top Hat Style, OEM # 3015752C1
Guide	Both 140-3177	0.3547 I.D., 2.620 Length, 0.5920 O.D., Late Guide Used With Top Hat Seal
Spring	Both 160-1647	2.455 Length, Late Spring Used With Top Hat Seal

INFINITI / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin C, SR20DE (1991-02)	G20	1
2500cc, (2.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, QR25DER, ""Supercharged Hybrid"" (2014-17)	QX60	3
6 Cylinder		
2496cc, (2.5L), DOHC, GAS, FI, 24 Valve, VQ25HR (2011-12)	G25	2
2960cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin A, VG30DE (1993-97)	J30	4
2988cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin C, VQ30DE (1998-01)	I30	5
2997cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin E, F, VR30DDTT, ""TURBO"" (2016-20)	Q50, Q60	6
3275cc, (3.3L), SOHC, GAS, FI, 12 Valve, Vin A, VG33E (1997-00)	QX4	7
3498cc, (3.5L), DOHC, GAS, FI, 24 Valve, VQ35DE (2001-16)	FX35, G35, I35, JX35, M35, QX4, QX60	8
3498cc, (3.5L), DOHC, GAS, FI, 24 Valve, VQ35HR (2007-12)	EX35, FX35, G35, M35	9
3498cc, (3.5L), DOHC, ELECTRIC/GAS, FI, 24 Valve, VQ35HR, ""Hybrid"" (2012-18)	M35h, Q50, Q70	10
3498cc, (3.5L), DOHC, GAS, FI, 24 Valve, VQ35DD (2017-21)	QX60	11
3696cc, (3.7L), DOHC, GAS, FI, 24 Valve, VQ37VHR (2008-19)	G37, M37, Q40, Q50, Q60, Q70, Q70L	12
8 Cylinder		
4130cc, (4.1L), DOHC, GAS, FI, 32 Valve, Vin B, VH41DE (1997-01)	Q45	13
4494cc, (4.5L), DOHC, GAS, FI, 32 Valve, Vin N, VH45DE (1990-96)	Q45	14
4494cc, (4.5L), DOHC, GAS, FI, 32 Valve, VK45DE (2002-10)	FX45, M45, Q45	15
5026cc, (5.0L), DOHC, GAS, FI, 32 Valve, VK50VE (2009-14)	FX50, QX70	16
5552cc, (5.6L), DOHC, GAS, FI, 32 Valve, VK56DE (2004-10)	QX56	17
5552cc, (5.6L), DOHC, GAS, FI, 32 Valve, VK56VD (2011-21)	Q70, Q70L, QX56, QX80	18
5552cc, (5.6L), DOHC, GAS, FI, 32 Valve, VK56VDS (2011-13)	M56	19

INFINITI / PASSENGER CAR OR TRUCK (Cont'd)

1 1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin C, SR20DE INF-SR20DE
 1991-02 L4 122 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1991-99	10228	1.339 Head Diameter,3.991 Overall Length
		2000-02	10794	1.339 Head Diameter,3.872 Overall Length
	Exh	1991-99	10229	1.181 Head Diameter,4.028 Overall Length
		2000-02	10795	1.181 Head Diameter,3.909 Overall Length
Keeper	Both	1991-02	121-1063	1 RD Bead Type
Stem Seal	Both	1991-02	122-1150	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1991-02	140-8216	0.2365 I.D.,1.690 Length,0.3955 O.D.,Tapered Port End
	Exh	1991-02	140-8217	0.2365 I.D.,1.690 Length,0.3953 O.D.,Plain Port End

2 2496cc, (2.5L), DOHC, GAS, FI, 24 Valve, VQ25HR INF-VQ25HR
 2011-12 V6 152 CID BORE - 85mm/3.35"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2011-12	121-1064	1 RD Bead Type
Stem Seal	Both	2011-12	122-1150	Positive Type,Viton Material,Metal Clad Style

3 2500cc, (2.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, QR25DER, INF-QR25DER
 ""Supercharged Hybrid"" BORE - 89mm/3.50"
 2014-17 L4 152 CID

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2014-17	121-1064	1 RD Bead Type
Stem Seal	Both	2014-17	122-1150	Positive Type,Viton Material,Metal Clad Style

4 2960cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin A, VG30DE INF-VG30DE
 1993-97 V6 181 CID BORE - 87mm/3.43"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1993-97	SB1500-77	1½ O.D.,1.175T I.D.,0.2360 Depth
	Exh	1993-97	SB1312-63	1½ O.D.,0.965T I.D.,0.2350 Depth
Valve	Int	1993-97	10284	1.339 Head Diameter
	Exh	1993-97	10285S	1.164 Head Diameter,Stellite Face
Keeper	Int	1993-97	121-1063	1 RD Bead Type
Stem Seal	Both	1993-97	122-1150	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1993-97	140-8543	0.2365 I.D.,1.815 Length,0.3955 O.D.
	Exh	1993-97	140-8544	0.2365 I.D.,1.940 Length,0.3953 O.D.

5 2988cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin C, VQ30DE INF-VQ30DE
 1998-01 V6 182 CID BORE - 93mm/3.66"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1998-01	10537	1.417 Head Diameter
	Exh	1998-01	10538	1.232 Head Diameter
Keeper	Both	1998-01	121-1064	1 RD Bead Type
Stem Seal	Both	1998-01	122-1150	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1998-01	140-8190	0.2365 I.D.,1.580 Length,0.3950 O.D.,Tapered Port End
	Exh	1998-01	140-8217	0.2365 I.D.,1.690 Length,0.3953 O.D.,Plain Port End

6 2997cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin E, F, VR30DDTT, INF-VR30DDTT
 ""TURBO"" BORE - 86mm/3.39"
 2016-20 V6 183 CID

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2016-20	121-1064	1 RD Bead Type

(Cont'd) INFINITI / PASSENGER CAR OR TRUCK**3275cc, (3.3L), SOHC, GAS, FI, 12 Valve, Vin A, VG33E**
1997-00 V6 200 CID**INF-VG33E 7**
BORE - 91.5mm/3.60"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1997-00	SB1812-55	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., 0.2780 Depth
Valve	Int 1997-00	10281	1.657 Head Diameter
	Exh 1997-00	10282S	1.382 Head Diameter, Stellite Face
Keeper	Both 1997-00	121-1059	1 RD Bead Type
Stem Seal	Int 1997-00	122-1262	Positive Type, Viton Material, Metal Clad Style
	Exh 1997-00	122-1263	Positive Type, Viton Material, Ring & Spring Style
Guide	Int 1997-00	140-8388	0.2760 I.D., 2.315 Length, 0.4345 O.D.
	Exh 1997-00	140-8389	0.3160 I.D., 2.500 Length, 0.4740 O.D.
Spring	Both 1997-00	160-1216	2.065 Length, Outer
Rocker Components	Both 1997-00	180-1264	Cam Follower

3498cc, (3.5L), DOHC, GAS, FI, 24 Valve, VQ35DE
2001-16 V6 213 CID**INF-VQ35DE 8**
BORE - 95.5mm/3.76"

PART	YEARS	PART NO.	NOTES
Valve	Int 2001-08	13237	1.463 Head Diameter, 3.798 O/A Length
	2013-14	13220	1.449 Head Diameter, 3.825 O/A Length
	Exh 2001-08	13238	1.234 Head Diameter, 3.700 O/A Length
	2013-14	13221	1.195 Head Diameter, 3.730 O/A Length
Keeper	Both 2001-16	121-1064	1 RD Bead Type
Stem Seal	Both 2001-16	122-1150	Positive Type, Viton Material, Metal Clad Style
Guide	Int 2001-14	140-8190	0.2365 I.D., 1.580 Length, 0.3950 O.D., Tapered Port End
	Exh 2001-14	140-8217	0.2365 I.D., 1.690 Length, 0.3953 O.D., Plain Port End

3498cc, (3.5L), DOHC, GAS, FI, 24 Valve, VQ35HR
2007-12 V6 213 CID**INF-VQ35HR 9**
BORE - 95.5mm/3.76"

PART	YEARS	PART NO.	NOTES
Valve	Int 2007-12	13220	1.449 Head Diameter
	Exh 2007-12	13221	1.195 Head Diameter, 3.730 O/A Length
Keeper	Both 2007-12	121-1064	1 RD Bead Type
Stem Seal	Both 2007-12	122-1150	Positive Type, Viton Material, Metal Clad Style, 2014-18 Q70 Hybrid Only

3498cc, (3.5L), DOHC, ELECTRIC/GAS, FI, 24 Valve, VQ35HR, ""Hybrid"" INF-VQ35HRE **10**
2012-18 V6 213 CID **BORE - 95.5mm/3.76"**

PART	YEARS	PART NO.	NOTES
Valve	Int 2012-13	13220	1.449 Head Diameter
	Exh 2012-13	13221	1.195 Head Diameter, 3.730 O/A Length
Keeper	Both 2012-18	121-1064	1 RD Bead Type
Stem Seal	Both 2012-18	122-1150	Positive Type, Viton Material, Metal Clad Style, NOTE: M35h, Q70, OEM # 13270-84A00

3498cc, (3.5L), DOHC, GAS, FI, 24 Valve, VQ35DD
2017-21 V6 213 CID**INF-VQ35DD 11**
BORE - 95.5mm/3.76"

PART	YEARS	PART NO.	NOTES
Keeper	Both 2017-20	121-1064	1 RD Bead Type
Stem Seal	Both 2017-20	122-1150	Positive Type, Viton Material, Metal Clad Style

INFINITI / PASSENGER CAR OR TRUCK (Cont'd)

12 3696cc, (3.7L), DOHC, GAS, FI, 24 Valve, VQ37VHR INF-VQ37VHR
 2008-19 V6 225 CID BORE - 95.5mm/3.76"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2013-14	13220	1.449 Head Diameter,2013 EX37; 2014 QX50
	Exh	2008-15	13221	1.195 Head Diameter,3.730 O/A Length
Keeper	Both	2008-19	121-1064	1 RD Bead Type
Stem Seal	Both	2008-18	122-1150	Positive Type,Viton Material,Metal Clad Style

13 4130cc, (4.1L), DOHC, GAS, FI, 32 Valve, Vin B, VH41DE INF-VH41DE
 1997-01 V8 252 CID BORE - 93mm/3.66"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	1997-01	121-1062	1 RD Bead Type
Stem Seal	Exh	1997-01	122-1159	Positive Type,Viton Material,Metal Clad Style

14 4494cc, (4.5L), DOHC, GAS, FI, 32 Valve, Vin N, VH45DE INF-VH45DE
 1990-96 V8 274 CID BORE - 93mm/3.66"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1990-96	SB1375-60	1 $\frac{3}{8}$ O.D.,1.107T I.D.,0.2370 Depth
Keeper	Both	1990-96	121-1062	1 RD Bead Type
Stem Seal	Int	1990-96	122-1139	Positive Type,Viton Material,Metal Clad Style
	Exh	1990-96	122-1159	Positive Type,Viton Material,Metal Clad Style

15 4494cc, (4.5L), DOHC, GAS, FI, 32 Valve, VK45DE INF-VK45DE
 2002-10 V8 274 CID BORE - 93mm/3.60"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2002-10	121-1064	1 RD Bead Type
Stem Seal	Both	2002-10	122-1150	Positive Type,Viton Material,Metal Clad Style

16 5026cc, (5.0L), DOHC, GAS, FI, 32 Valve, VK50VE INF-VK50VE
 2009-14 V8 307 CID BORE - 95.5mm/3.76"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2009-14	121-1064	1 RD Bead Type
Stem Seal	Both	2009-14	122-1150	Positive Type,Viton Material,Metal Clad Style

17 5552cc, (5.6L), DOHC, GAS, FI, 32 Valve, VK56DE INF-VK56DE
 2004-10 V8 339 CID BORE - 98mm/3.85"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2004-10	13237	1.463 Head Diameter,3.798 O/A Length; NOTE: Old Style Valve, Will Not Work With New Style Short Lifter.
Keeper	Both	2004-10	121-1064	1 RD Bead Type
Stem Seal	Both	2004-10	122-1150	Positive Type,Viton Material,Metal Clad Style

18 5552cc, (5.6L), DOHC, GAS, FI, 32 Valve, VK56VD INF-VK56VD
 2011-21 V8 339 CID BORE - 98mm/3.85"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2011-20	121-1064	1 RD Bead Type
Stem Seal	Both	2011-20	122-1150	Positive Type,Viton Material,Metal Clad Style

19 5552cc, (5.6L), DOHC, GAS, FI, 32 Valve, VK56VDS INF-VK56VDS
 2011-13 V8 339 CID BORE - 98mm/3.85"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2011-13	121-1064	1 RD Bead Type
Stem Seal	Both	2011-13	122-1150	Positive Type,Viton Material,Metal Clad Style

ISUZU / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
1471cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin 7, K, 4XC1 (1985-89)	I-Mark	1
1471cc, (1.5L), SOHC, GAS, FI, 8 Valve, Vin 9, 4XC1, ""TURBO"" (1988-89)	I-Mark	2
1588cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 5, 4XE1W (1989-91)	I-Mark, Impulse, Stylus	3
1588cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 4, 4XE1WT, ""TURBO"" (1991-92)	Impulse	4
1588cc, (1.6L), SOHC, GAS, FI, 12 Valve, Vin 6, 4XE1 (1991-93)	Stylus	5
1809cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 8, 4XF1 (1992-92)	Impulse, Stylus	6
1817cc, (1.8L), SOHC, GAS, CARB, 8 Valve, Vin B, N, G180Z (1981-84)	I-Mark, Pickup	7
1817cc, (1.8L), SOHC, DIESEL, FI, 8 Valve, Vin P, 4FB1 (1981-84)	I-Mark Diesel	8
1949cc, (1.9L), SOHC, GAS, CARB, 8 Valve, Vin A, G200Z (1983-86)	Pickup, Trooper	9
1949cc, (1.9L), SOHC, GAS, FI, 8 Valve, Vin A, G200Z (1983-87)	Impulse	10
1994cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin F, 4ZC1, ""TURBO"" (1985-89)	Impulse	11
2180cc, (2.2L), DOHC, GAS, FI, 16 Valve, Vin D, X22SE, ""Ecotec"" (1998-03)	Amigo, Rodeo, Rodeo Sport	12
134 C.I., (2.2L), OHV, GAS, FI, 8 Valve, Vin 4, LN2, ""GM"" (1996-00)	Hombre	13
2238cc, (2.2L), OHV, DIESEL, FI, 8 Valve, Vin S, C223 (1981-87)	Pickup, Trooper	14
2238cc, (2.2L), SOHC, DIESEL, FI, 8 Valve, Vin U, C223, ""TURBO"" (1986-87)	Pickup Turbo, Trooper Turbo	15
2254cc, (2.3L), SOHC, GAS, CARB, FI, 8 Valve, Vin L, 4ZD1 (1986-95)	Amigo, Pickup, Trooper	16
2254cc, (2.3L), SOHC, GAS, FI, 16 Valve, F23A7, ""Honda"" (1998-99)	Oasis	17
2559cc, (2.6L), SOHC, GAS, FI, 8 Valve, Vin E, 4ZE1 (1988-97)	Amigo, Pickup, Rodeo, Trooper	18
169 C. I., (2.8L), DOHC, GAS, FI, 16 Valve, Vin 8, LK5, ""GM"" (2006-06)	i-280	19
178 C. I., (2.9L), DOHC, GAS, FI, 16 Valve, Vin 9, LLV, ""GM"" (2007-08)	i-290	21
3867cc, (3.9L), OHV, DIESEL, FI, 8 Valve, Vin H, K, 4BD1/ 4BD2, ""N/A & TURBO"" (1990-98)	NPR, NQR	29
4752cc, (4.8L), SOHC, DIESEL, FI, 16 Valve, Vin 4, 5, 4HE1, ""TURBO"" (1998-04)	NPR, NPR-HD, NQR	31
5197cc, (5.2L), SOHC, DIESEL, FI, 16 Valve, Vin 6, 4HK1, ""TURBO"" (2005-20)	FTR, NPR, NPR-HD, NPR-XD, NQR, NRR	32
5 Cylinder		
211 C. I., (3.5L), DOHC, GAS, FI, 20 Valve, Vin 6, L52, ""GM"" (2006-06)	i-350	27
223 C. I., (3.7L), DOHC, GAS, FI, 20 Valve, Vin E, LLR, ""GM"" (2007-08)	i-370	28

ISUZU / PASSENGER CAR OR TRUCK (Cont'd)

Engine	Models	Line No.
6 Cylinder		
172 C. I., (2.8L), OHV, GAS, FI, 12 Valve, Vin R, LL2, ""GM"" (1989-91)	Trooper	20
3137cc, (3.1L), OHV, GAS, FI, 12 Valve, Vin Z, CPC, ""GM"" (1991-94)	Pickup, Rodeo	22
3165cc, (3.2L), DOHC, GAS, FI, 24 Valve, Vin W, 6VD1 (1992-95)	Trooper	23
3165cc, (3.2L), SOHC, GAS, FI, 24 Valve, Vin V, 6VD1 (1992-97)	Rodeo, Trooper	24
3165cc, (3.2L), DOHC, GAS, FI, 24 Valve, Vin W, 6VD1 (1998-04)	Amigo, Rodeo, Rodeo Sport	25
3475cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin X, 6VE1 (1998-03)	Axiom, Trooper, VehiCROSS	26
256 C.I., (4.2L), DOHC, GAS, FI, 24 Valve, Vin S, LL8, ""GM"" (2003-08)	Ascender	30
5787cc, (5.8L), SOHC, DIESEL, FI, 24 Valve, Vin N, 6BD1, ""TURBO"" (1990-91)	FSR, FTR	36
7128cc, (7.1L), SOHC, DIESEL, FI, 12 Valve, Vin 2, 6HE1, ""TURBO"" (1995-98)	FRR, FSR, FTR, FVR	40
7784cc, (7.8L), SOHC, DIESEL, FI, 24 Valve, Vin 3, 6HK1, ""TURBO"" (1998-11)	FRR, FSR, FTR, FVR, FXR, HTR, HVR, HXR	41
8406cc, (8.4L), OHV, DIESEL, FI, 12 Valve, 6SA1, ""TURBO"" (1987-93)	EVR, FVR	42
8 Cylinder		
323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin P, LM4, ""GM Vortec"" (2003-04)	Ascender	33
323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin M, LH6, ""GM AFM Vortec"" (2005-06)	Ascender	34
350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin R, L31, ""GM"" (1996-03)	NPR, NPR-HD	35
364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin U, LQ4, ""GM H.O. Vortec"" (2003-12)	NPR, NPR-HD	37
364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin N, LQ9, ""GM Vortec"" (2007-12)	NPR, NPR-HD	38
364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin G, L96, ""GM Vortec"" (2012-19)	NPR, NPR-HD	39

1 1471cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin 7, K, 4XC1 4XC1
 1985-89 L4 88 CID BORE - 77mm/3.03""

PART	YEARS	PART NO.	NOTES	
Valve	Int	1985-89	10105	1.415 Head Diameter
	Exh	1985-89	10104	1.220 Head Diameter
Keeper	Both	1985-89	121-1048	1 RD Bead Type
Stem Seal	Both	1985-89	122-1130	Positive Type,Viton Material,Metal Clad Style

2 1471cc, (1.5L), SOHC, GAS, FI, 8 Valve, Vin 9, 4XC1, ""TURBO"" 4XC1T
 1988-89 L4 88 CID BORE - 77mm/3.03""

PART	YEARS	PART NO.	NOTES	
Valve	Int	1988-89	10105	1.415 Head Diameter
Keeper	Both	1988-89	121-1048	1 RD Bead Type
Stem Seal	Both	1988-89	122-1130	Positive Type,Viton Material,Metal Clad Style

(Cont'd) **ISUZU / PASSENGER CAR OR TRUCK**

1588cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 5, 4XE1W **4XE1W 3**
1989-91 L4 97 CID **BORE - 80mm/3.15"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1989-91	SB1312-52	1 ⁵ / ₁₆ O.D.,1.060T I.D.,0.2400 Depth
	Exh	1989-91	SB1187-52	1 ³ / ₁₆ O.D.,0.934T I.D.,0.2570 Depth
Keeper	Both	1989-91	121-1074	1 RD Bead Type
Stem Seal	Both	1989-91	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1989-91	140-8189	0.2340 I.D.,1.651 Length,0.4353 O.D.,I.D. Must Be Reamed To Size
	Exh	1989-91	140-8255	0.2345 I.D.,1.775 Length,0.4355 O.D.,I.D. Must Be Reamed To Size

1588cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 4, 4XE1WT, ""TURBO"" **4XE1WT 4**
1991-92 L4 97 CID **BORE - 80mm/3.15"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1991-92	SB1312-52	1 ⁵ / ₁₆ O.D.,1.060T I.D.,0.2400 Depth
	Exh	1991-92	SB1187-52	1 ³ / ₁₆ O.D.,0.934T I.D.,0.2570 Depth
Keeper	Both	1991-92	121-1074	1 RD Bead Type
Stem Seal	Both	1991-92	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1991-92	140-8189	0.2340 I.D.,1.651 Length,0.4353 O.D.,I.D. Must Be Reamed To Size
	Exh	1991-92	140-8255	0.2345 I.D.,1.775 Length,0.4355 O.D.,I.D. Must Be Reamed To Size

1588cc, (1.6L), SOHC, GAS, FI, 12 Valve, Vin 6, 4XE1 **4XE1 5**
1991-93 L4 97 CID **BORE - 80mm/3.15"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1991-93	SB1187-52	1 ³ / ₁₆ O.D.,0.934T I.D.,0.2570 Depth
	Exh	1991-93	SB1375-51	1 ³ / ₈ O.D.,1.060T I.D.,0.2800 Depth
Keeper	Both	1991-93	121-1074	1 RD Bead Type
Stem Seal	Both	1991-93	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1991-93	140-8189	0.2340 I.D.,1.651 Length,0.4353 O.D.,I.D. Must Be Reamed To Size
	Exh	1991-93	140-8291	0.2350 I.D.,1.850 Length,0.4355 O.D.

1809cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 8, 4XF1 **4XF1 6**
1992-92 L4 110 CID **BORE - 80mm/3.15"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1992-92	SB1312-52	1 ⁵ / ₁₆ O.D.,1.060T I.D.,0.2400 Depth
	Exh	1992-92	SB1187-52	1 ³ / ₁₆ O.D.,0.934T I.D.,0.2570 Depth
Keeper	Both	1992-92	121-1074	1 RD Bead Type
Stem Seal	Both	1992-92	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1992-92	140-8189	0.2340 I.D.,1.651 Length,0.4353 O.D.,I.D. Must Be Reamed To Size
	Exh	1992-92	140-8255	0.2345 I.D.,1.775 Length,0.4355 O.D.,I.D. Must Be Reamed To Size

1817cc, (1.8L), SOHC, GAS, CARB, 8 Valve, Vin B, N, G180Z **G180Z 7**
1981-84 L4 111 CID **BORE - 84mm/3.31"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1981-84	SB1500-50	1 ¹ / ₂ O.D.,1.203T I.D.,0.2800 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Keeper	Both	1981-84	121-1047	1 SQ Bead Type
Stem Seal	Both	1981-84	122-1119	Positive Type,Viton Material, Ring & Spring Style

ISUZU / PASSENGER CAR OR TRUCK (Cont'd)

7 1817cc, (1.8L), SOHC, GAS, CARB, 8 Valve, Vin B, N, G180Z G180Z
 (cont.) 1981-84 L4 111 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES	
Guide	Int	1981-84	140-7713	0.3145 I.D., 1.810 Length, 0.4745 O.D.
	Exh	1981-84	140-7714	0.3145 I.D., 2.160 Length, 0.4745 O.D., +2 O/S Available

8 1817cc, (1.8L), SOHC, DIESEL, FI, 8 Valve, Vin P, 4FB1 4FB1
 1981-84 L4 110 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1981-84	122-1119	Positive Type, Viton Material, Ring & Spring Style
Guide	Int	1981-84	140-7713	0.3145 I.D., 1.810 Length, 0.4745 O.D.
	Exh	1981-84	140-7714	0.3145 I.D., 2.160 Length, 0.4745 O.D., +2 O/S Available

9 1949cc, (1.9L), SOHC, GAS, CARB, 8 Valve, Vin A, G200Z G200Z-CA
 1983-86 L4 119 CID BORE - 87mm/3.43"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1983-86	SB1500-50	1½ O.D., 1.203T I.D., 0.2800 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Keeper	Both	1983-86	121-1047	1 SQ Bead Type
Stem Seal	Both	1983-86	122-1119	Positive Type, Viton Material, Ring & Spring Style
Guide	Int	1983-86	140-7713	0.3145 I.D., 1.810 Length, 0.4745 O.D.
	Exh	1983-86	140-7714	0.3145 I.D., 2.160 Length, 0.4745 O.D., +2 O/S Available

10 1949cc, (1.9L), SOHC, GAS, FI, 8 Valve, Vin A, G200Z G200Z-FI
 1983-87 L4 119 CID BORE - 87mm/3.43"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1983-87	SB1750-51	1¾ O.D., 1.410T I.D., 0.2800 Depth
	Exh	1983-87	SB1500-50	1½ O.D., 1.203T I.D., 0.2800 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1983-87	10087	1.673 Head Diameter, Square Groove, Impulse
Keeper	Both	1983-87	121-1047	1 SQ Bead Type
Stem Seal	Both	1983-87	122-1119	Positive Type, Viton Material, Ring & Spring Style
Guide	Int	1983-87	140-7713	0.3145 I.D., 1.810 Length, 0.4745 O.D.
	Exh	1983-87	140-7714	0.3145 I.D., 2.160 Length, 0.4745 O.D., +2 O/S Available

11 1994cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin F, 4ZC1, ""TURBO"" 4ZC1
 1985-89 L4 122 CID BORE - 88mm/3.47"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1985-89	SB1750-51	1¾ O.D., 1.410T I.D., 0.2800 Depth
	Exh	1985-89	SB1562-66	1⅞ O.D., 1.265T I.D., 0.2800 Depth
Valve	Int	1985-89	10218	1.663 Head Diameter
	Exh	1985-89	10220S	1.413 Head Diameter, Stellite Face
Keeper	Both	1985-89	121-1047	1 SQ Bead Type
Stem Seal	Both	1985-89	122-1263	Positive Type, Viton Material, Ring & Spring Style
Guide	Int	1985-89	140-7713	0.3145 I.D., 1.810 Length, 0.4745 O.D.
	Exh	1985-89	140-7714	0.3145 I.D., 2.160 Length, 0.4745 O.D., +2 O/S Available

12 2180cc, (2.2L), DOHC, GAS, FI, 16 Valve, Vin D, X22SE, ""Ecotec"" X22SE
 1998-03 L4 133 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1998-03	SB1375E-1	1.375 O.D., 1.100T I.D., 0.2270 Depth, OEM Replacement, +10 O/S Available, Note: Seat May Need To Be Machined To Achieve Correct Depth, Must Use Adjustable Cutter

(Cont'd) ISUZU / PASSENGER CAR OR TRUCK**2180cc, (2.2L), DOHC, GAS, FI, 16 Valve, Vin D, X22SE, ""Ecotec""**
1998-03 L4 133 CID**X22SE 12**
BORE - 86mm/3.39"" (cont.)

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1998-03	SB1187-52	1 ³ / ₁₆ O.D.,0.934T I.D.,0.2570 Depth,Note: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	1998-03	10784	1.260 Head Diameter
	Exh	1998-03	02040S	1.142 Head Diameter,Recommended OEM Nickel Base Inconel Material, Stellite Face
		1998-03	22040S	1.142 Head Diameter,Alternative Austenitic Material, Stellite Face
Keeper	Both	1998-03	121-1098	3 RD Bead Type
Stem Seal	Both	1998-03	122-1329	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1998-03	140-3010	0.2362 I.D.,1.773 Length,0.3950 O.D.
	Exh	1998-03	140-3011	0.2362 I.D.,1.378 Length,0.3950 O.D.
Lifter	Both	1998-03	VL571	Hydraulic Bucket Type
Head Saver Shim		1998-03	230-2151	New Hgt. 5.315-5.330; Min. Hgt. 5.305

134 C.I., (2.2L), OHV, GAS, FI, 8 Valve, Vin 4, LN2, ""GM""
1996-00 L4 134 CID**ISU2.2-LN2 13**
BORE - 89mm/3.50""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1996-00	SB1812-55	1 ³ / ₁₆ O.D.,1 ¹ / ₂ T I.D.,0.2780 Depth
	Exh	1996-00	SB1562-66	1 ⁹ / ₁₆ O.D.,1.265T I.D.,0.2800 Depth
Valve	Int	1996-97	01736	1.732 Head Diameter,5.465 Overall Length
		1998-00	01902	1.732 Head Diameter,0.020 Shorter than OEM.,W/ .2746 Stem Dia., 5.265 Overall Length.
	Exh	1996-97	01737	1.457 Head Diameter,5.142 Overall Length
		1998-00	01903	1.457 Head Diameter,0.020 Shorter than OEM.,W/ .2738 Stem Dia., 4.980 Overall Length.
Keeper	Both	1996-00	121-1090	1 RD Bead Type
Stem Seal	Both	1996-97	122-1236	Positive Type,Viton Material,Ring & Band Style
		1998-00	122-1324	Positive Type,Viton Material,Top Hat Style
Guide	Int	1996-97	140-8536	0.2757 I.D.,2.770 Length,0.5828 O.D.
	Exh	1996-97	140-8535	0.2757 I.D.,2.320 Length,0.5828 O.D.
	Both	1998-00	140-3009	0.2763 I.D.,2.289 Length,0.5110 O.D.,NOTE: Some Castings May Require The Use of a +2 O/S (140-3009+2) W/ .513 O.D. As The Standard Replacement.
Spring	Both	1996-97	160-1267	1.960 Length,Conical
		1998-00	160-1436	1.900 Length,Conical
Lifter	Both	1996-00	VL138	Hydraulic Roller Type
Rocker Components	Both	1996-97	181-1063	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) Nut
Push Rod	Both	1996-97	192-1513	7.458 Length
		1998-00	190-1539	7.515 Length
Head Bolt Set		1996-97	220-1025	Torque To Yield,VIN 4, Services Engine
		1998-00	220-1088	Torque To Yeild,Services Engine
Head Saver Shim		1996-00	230-2115	New Hgt. - 5.3150 - 5.3200; Min. Hgt.- 5.3050

2238cc, (2.2L), OHV, DIESEL, FI, 8 Valve, Vin S, C223
1981-87 L4 134 CID**C223 14**
BORE - 88mm/3.47""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1981-87	SB1625-55	1 ⁵ / ₁₆ O.D.,1.333T I.D.,0.2370 Depth
	Exh	1981-87	SB1437-58	1 ⁷ / ₁₆ O.D.,1.095T I.D.,0.2370 Depth
Valve	Int	1981-87	10216	1.575 Head Diameter

ISUZU / PASSENGER CAR OR TRUCK (Cont'd)

14 2238cc, (2.2L), OHV, DIESEL, FI, 8 Valve, Vin S, C223 C223
 (cont.) 1981-87 L4 134 CID BORE - 88mm/3.47"

PART	YEARS	PART NO.	NOTES
Valve	Exh	1981-87 10217	1.339 Head Diameter
Stem Seal	Both	1981-87 122-1137	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1981-87 140-7656	0.3145 I.D.,1.970 Length,0.5528 O.D.

15 2238cc, (2.2L), SOHC, DIESEL, FI, 8 Valve, Vin U, C223, ""TURBO"" C223T
 1986-87 L4 137 CID BORE - 88mm/3.47"

PART	YEARS	PART NO.	NOTES
Valve	Int	1986-87 10214	1.496 Head Diameter
	Exh	1986-87 10215S	1.260 Head Diameter,Stellite Face
Stem Seal	Both	1986-87 122-1137	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1986-87 140-7656	0.3145 I.D.,1.970 Length,0.5528 O.D.

16 2254cc, (2.3L), SOHC, GAS, CARB, FI, 8 Valve, Vin L, 4ZD1 4ZD1
 1986-95 L4 134 CID BORE - 89.4mm/3.52"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1986-95 1988-89	1 ³ / ₄ O.D.,1.410T I.D.,0.2800 Depth,Use W/ 1.663 Head Dia. 1 ¹³ / ₁₆ O.D.,1.530T I.D.,0.3070 Depth,Use W/ 1.736 Head Dia.
	Exh	1986-95 1988-89	1 ¹ / ₁₆ O.D.,1.265T I.D.,0.2800 Depth,Use W/ 1.413 Head Dia. 1 ⁵ / ₈ O.D.,1.329 I.D.,0.2800 Depth,Use W/ 1.453 Head Dia.
Valve	Int	1986-95 10218	1.663 Head Diameter
	Exh	1986-95 10220S	1.413 Head Diameter,Stellite Face
		1988-89 10221S	1.453 Head Diameter,Stellite Face,Impulse
Keeper	Both	1986-95 121-1047	1 SQ Bead Type
Stem Seal	Both	1986-95 122-1119	Positive Type,Viton Material,Ring & Spring Style
Guide	Int	1986-95 140-7713	0.3145 I.D.,1.810 Length,0.4745 O.D.
	Exh	1986-95 140-7714	0.3145 I.D.,2.160 Length,0.4745 O.D.,+2 O/S Available
Head Saver Shim		1986-95 230-2045	New Hgt.- 3.6673 - 3.6712; Min. Hgt.- 3.6513

17 2254cc, (2.3L), SOHC, GAS, FI, 16 Valve, F23A7, ""Honda"" ISU-F23A7
 1998-99 L4 138 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES
Valve	Int	1998-99 10541	1.339 Head Diameter
	Exh	1998-99 10542	1.142 Head Diameter,Inconel
Keeper	Both	1998-99 121-1060	1 RD Bead Type
Stem Seal	Int	1998-99 122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	1998-99 122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1998-99 140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	1998-99 140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

18 2559cc, (2.6L), SOHC, GAS, FI, 8 Valve, Vin E, 4ZE1 4ZE1
 1988-97 L4 156 CID BORE - 92.6mm/3.65"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1988-97 SB1812-51	1 ¹³ / ₁₆ O.D.,1.530T I.D.,0.3070 Depth
	Exh	1988-97 SB1625-54	1 ⁵ / ₈ O.D.,1.329 I.D.,0.2800 Depth
Valve	Exh	1988-97 10221S	1.453 Head Diameter,Stellite Face
Keeper	Both	1988-97 121-1047	1 SQ Bead Type
Stem Seal	Both	1988-97 122-1119	Positive Type,Viton Material,Ring & Spring Style
Guide	Int	1988-97 140-7713	0.3145 I.D.,1.810 Length,0.4745 O.D.
	Exh	1988-97 140-7714	0.3145 I.D.,2.160 Length,0.4745 O.D.,+2 O/S Available

(Cont'd) ISUZU / PASSENGER CAR OR TRUCK

2559cc, (2.6L), SOHC, GAS, FI, 8 Valve, Vin E, 4ZE1 **4ZE1 18**
 1988-97 L4 156 CID **BORE - 92.6mm/3.65"** (cont.)

PART	YEARS	PART NO.	NOTES
Head Saver Shim	1988-97	230-2041	New Hgt. - 3.6673 - 3.6712; Min. Hgt. - 3.6513

169 C. I., (2.8L), DOHC, GAS, FI, 16 Valve, Vin 8, LK5, ""GM"" **ISU2.8-LK5 19**
 2006-06 L4 169 CID **BORE - 92.96mm/3.66"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 2006-06	SB1250-50	1¼ O.D., 0.965T I.D., ¼ Depth, NOTE: Optional ¼ Depth; Must Machine Insert To Achieve Correct Depth
	2006-06	SB1250-65	1¼ O.D., 1.030 I.D., 0.2150 Depth
Valve	Int 2006-06	01998	1.457 Head Diameter
	Exh 2006-06	01999	1.201 Head Diameter
Keeper	Both 2006-06	121-1098	3 RD Bead Type
Stem Seal	Both 2006-06	122-1349	Positive Type, Viton Material, Top Hat Style
Guide	Both 2006-06	140-8556	0.2355 I.D., 1.735 Length, 0.4360 O.D.
Spring	Both 2006-06	160-1480	1.770 Length
Lifter	Both 2006-06	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both 2006-06	180-1323	Cam Follower
Head Bolt Set	2006-06	220-1101	Torque To Yield, Services Engine

172 C. I., (2.8L), OHV, GAS, FI, 12 Valve, Vin R, LL2, ""GM"" **ISU2.8-LL2 20**
 1989-91 V6 172 CID **BORE - 89mm/3.50"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1989-91	SB1812-4	1 ³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh 1989-91	SB1500-1	1½ O.D., 1¼ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int 1989-91	01481	1.718 Head Diameter, +15 O/S Stem Available
	Exh 1989-91	01480	1.425 Head Diameter, +15 O/S Stem Available
Keeper	Both 1989-91	121-1003	1 SQ Bead Type
Stem Seal	Both 1989-91	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
Guide	Both 1989-91	140-9560	0.3440 I.D., 2.000 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Cast Iron Head
Lifter	Both 1989-91	VL94	Hydraulic Type
Rocker Components	Both 1989-91	181-1016	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 10mm Nut
	1989-91	183-1015	Smooth Ball, 10mm, Use W/ Metric Threaded Rocker Arm Stud
	1989-91	184-1025	Stud, 10mm, Adjustable
	1989-91	184-1032	Nut, 10mm, Adjustable
Push Rod	Both 1989-91	192-1444	6.162 Length
Head Saver Shim	1989-91	230-2025	New Hgt. - 3.5805 - 3.5950; Min. Hgt. - 3.5750, 2 Required

178 C. I., (2.9L), DOHC, GAS, FI, 16 Valve, Vin 9, LLV, ""GM"" **ISU2.9-LLV 21**
 2007-08 L4 178 CID **BORE - 95.5mm/3.76"**

PART	YEARS	PART NO.	NOTES
Valve	Int 2007-08	13179	1.525 Head Diameter
	Exh 2007-08	13046	1.323 Head Diameter
Keeper	Both 2007-08	121-1098	3 RD Bead Type
Stem Seal	Both 2007-08	122-1394	Positive Type, Viton Material, Top Hat Style
Guide	Both 2007-08	140-8556	0.2355 I.D., 1.735 Length, 0.4360 O.D.
Spring	Both 2007-08	160-1579	1.760 Length, Conical

ISUZU / PASSENGER CAR OR TRUCK (Cont'd)

21 178 C. I., (2.9L), DOHC, GAS, FI, 16 Valve, Vin 9, LLV, ""GM"" ISU2.9-LLV
 (cont.) 2007-08 L4 178 CID BORE - 95.5mm/3.76""

PART	YEARS	PART NO.	NOTES	
Lifter	Both	2007-08	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2007-08	180-1323	Cam Follower
Head Bolt Set		2007-08	220-1101	Torque To Yield, Services Engine
Head Saver Shim		2007-08	230-2181	New Hgt. - N/A; Min. Hgt. - N/A

22 3137cc, (3.1L), OHV, GAS, FI, 12 Valve, Vin Z, CPC, ""GM"" ISU3.1-CPC
 1991-94 V6 191 CID BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1991-94	SB1812-4	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1991-94	SB1500-1	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1991-94	01481	1.718 Head Diameter, +15 O/S Stem Available
	Exh	1991-94	01480	1.425 Head Diameter, +15 O/S Stem Available
Keeper	Both	1991-94	121-1003	1 SQ Bead Type
Stem Seal	Int	1991-91	122-1198	Positive Type, Viton Material, Metal Clad Style
	Exh	1991-91	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
Guide	Both	1991-94	140-8112	0.3155 I.D., 2.085 Length, 0.5530 O.D., W/ Snap Ring, Aluminum Head, +2 O/S Available
		1991-94	140-9560	0.3440 I.D., 2.000 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Cast Iron Head
Lifter	Both	1991-94	VL94	Hydraulic Type
Rocker Components	Both	1991-94	181-1016	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 10mm Nut
		1991-94	183-1015	Smooth Ball, 10mm, Use W/ Metric Threaded Rocker Arm Stud
		1991-94	184-1025	Stud, 10mm, Adjustable
		1991-94	184-1032	Nut, 10mm, Adjustable
		1991-94	184-1033	Nut, 8mm, Non-Adjustable
Push Rod	Both	1991-94	192-1444	6.162 Length
Head Saver Shim		1991-94	230-2025	New Hgt. - 3.5850 - 3.5950; Min. Hgt. - 3.5750, 2 Required

23 3165cc, (3.2L), DOHC, GAS, FI, 24 Valve, Vin W, 6VD1 6VD1-DC
 1992-95 V6 193 CID BORE - 93.4mm/3.68""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1992-95	SB1437-67	1 ⁷ / ₁₆ O.D., 1.180T I.D., 0.2550 Depth
Keeper	Both	1992-95	121-1074	1 RD Bead Type
Stem Seal	Both	1992-95	122-1147	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1992-95	140-8255	0.2345 I.D., 1.775 Length, 0.4355 O.D., I.D. Must Be Reamed To Size
Spring	Both	1992-95	160-1372	1.970 Length
Head Saver Shim		1992-95	230-2094	New Hgt. - 4.126, 2 Required

24 3165cc, (3.2L), SOHC, GAS, FI, 24 Valve, Vin V, 6VD1 6VD1-SC
 1992-97 V6 193 CID BORE - 93.4mm/3.68""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1992-97	SB1437-67	1 ⁷ / ₁₆ O.D., 1.180T I.D., 0.2550 Depth
Valve	Int	1992-97	10502	1.339 Head Diameter
	Exh	1992-97	10503	1.181 Head Diameter
Keeper	Both	1992-97	121-1074	1 RD Bead Type

(Cont'd) ISUZU / PASSENGER CAR OR TRUCK**3165cc, (3.2L), SOHC, GAS, FI, 24 Valve, Vin V, 6VD1**
1992-97 V6 193 CID**6VD1-SC 24**
BORE - 93.4mm/3.68"" (cont.)

PART	YEARS	PART NO.	NOTES
Stem Seal	Both 1992-97	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Both 1992-97	140-8255	0.2345 I.D.,1.775 Length,0.4355 O.D.,I.D. Must Be Reamed To Size
Spring	Both 1992-97	160-1372	1.970 Length
Lifter	Both 1992-97	VL146	Hydraulic Lash Adjuster Type
Head Saver Shim	1992-97	230-2094	New Hgt. - 4.126, 2 Required

3165cc, (3.2L), DOHC, GAS, FI, 24 Valve, Vin W, 6VD1
1998-04 V6 193 CID**6VD1-DC 25**
BORE - 93.4mm/3.68""

PART	YEARS	PART NO.	NOTES
Valve	Int 1998-04 Exh 1998-04	10739 10740	1.338 Head Diameter 1.142 Head Diameter
Keeper	Both 1998-04	121-1074	1 RD Bead Type
Guide	Both 1998-04	140-8255	0.2345 I.D.,1.775 Length,0.4355 O.D.,I.D. Must Be Reamed To Size

3475cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin X, 6VE1
1998-03 V6 212 CID**6VE1 26**
BORE - 93.4mm/3.68""

PART	YEARS	PART NO.	NOTES
Valve	Int 1998-03 Exh 1998-03	10739 10740	1.338 Head Diameter 1.142 Head Diameter
Keeper	Both 1998-03	121-1074	1 RD Bead Type
Guide	Both 1998-03	140-8255	0.2345 I.D.,1.775 Length,0.4355 O.D.,I.D. Must Be Reamed To Size

211 C. I., (3.5L), DOHC, GAS, FI, 20 Valve, Vin 6, L52, ""GM""
2006-06 L5 211 CID**ISU3.5-L52 27**
BORE - 92.96mm/3.66""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 2006-06 2006-06	SB1250-50 SB1250-65	1¼ O.D.,0.965T I.D.,¼ Depth,NOTE: Optional ¼ Depth; Must Machine Insert To Achieve Correct Depth 1¼ O.D.,1.030 I.D.,0.2150 Depth
Valve	Int 2006-06 Exh 2006-06	01998 01999	1.457 Head Diameter 1.201 Head Diameter
Keeper	Both 2006-06	121-1098	3 RD Bead Type
Stem Seal	Both 2006-06	122-1349	Positive Type,Viton Material,Top Hat Style
Guide	Both 2006-06	140-8556	0.2355 I.D.,1.735 Length,0.4360 O.D.
Spring	Both 2006-06	160-1480	1.770 Length
Lifter	Both 2006-06	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both 2006-06	180-1323	Cam Follower
Head Bolt Set	2006-06	220-1101	Torque To Yield,Services Engine
Head Saver Shim	2006-06	230-2183	New Hgt. - N/A; Min. Htg. - N/A

223 C. I., (3.7L), DOHC, GAS, FI, 20 Valve, Vin E, LLR, ""GM""
2007-08 L5 223 CID**ISU3.7-LLR 28**
BORE - 95.5mm/3.76""

PART	YEARS	PART NO.	NOTES
Valve	Int 2007-08 Exh 2007-08	13179 13046	1.525 Head Diameter 1.323 Head Diameter
Keeper	Both 2007-08	121-1098	3 RD Bead Type
Stem Seal	Both 2007-08	122-1394	Positive Type,Viton Material,Top Hat Style

ISUZU / PASSENGER CAR OR TRUCK (Cont'd)

28 223 C. I., (3.7L), DOHC, GAS, FI, 20 Valve, Vin E, LLR, ""GM"" ISU3.7-LLR
 (cont.) 2007-08 L5 223 CID BORE - 95.5mm/3.76""

PART		YEARS	PART NO.	NOTES
Guide	Both	2007-08	140-8556	0.2355 I.D., 1.735 Length, 0.4360 O.D.
Spring	Both	2007-08	160-1579	1.760 Length, Conical
Lifter	Both	2007-08	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2007-08	180-1323	Cam Follower
Head Bolt Set		2007-08	220-1101	Torque To Yield, Services Engine
Head Saver Shim		2007-08	230-2184	New Hgt. - N/A; Min. Hgt. - N/A

29 3867cc, (3.9L), OHV, DIESEL, FI, 8 Valve, Vin H, K, 4BD1/4BD2, ""N/A & TURBO"" 4BD1-2T
 1990-98 L4 236 CID BORE - 102mm/4.02""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1990-98	SB1854E-1	1.854 O.D., 1.610T I.D., 0.2770 Depth, OEM # 9117156070
	Exh	1990-98	SB1539E-2	1.539 O.D., 1.297T I.D., 0.2760 Depth, OEM # 5117110340
		1990-98	SB1562-46N	1 ⁹ / ₁₆ O.D., 1 ¹ / ₄ I.D., ⁹ / ₃₂ Depth, Alternate Universal Oversize
Valve	Int	1990-98	10725	1.772 Head Diameter, OEM # 8970287020, 8970343790, 8941295500
	Exh	1990-98	10726	1.476 Head Diameter, OEM # 8970287060, 5125520480, 8943331140, 8944619580, 4BD1 Non-Turbo
		1990-98	10728S	1.476 Head Diameter, Inconel, Stellite Face, OEM # 8970850662, 8970427240, 8970949940, 4BD2T Turbo Applications
Stem Seal	Both	1990-98	122-1315	Positive Type, Viton Material, Metal Clad Style, OEM # 8971201670
Guide	Both	1990-98	140-8023	0.3548 I.D., 2.365 Length, 0.5525 O.D., OEM # 5117210010
Spring	Both	1990-98	160-1434	2.059 Length, Inner, OEM # 8941255110
		1990-98	160-1435	2.131 Length, Outer, OEM # 8941255120

30 256 C.I., (4.2L), DOHC, GAS, FI, 24 Valve, Vin S, LL8, ""GM"" ISU4.2-LL8
 2003-08 L6 256 CID BORE - 93mm/3.66""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	2003-06	SB1250-50	1 ¹ / ₄ O.D., 0.965T I.D., ¹ / ₄ Depth, NOTE: Optional ¹ / ₄ Depth; Must Machine Insert To Achieve Correct Depth
		2003-06	SB1250-65	1 ¹ / ₄ O.D., 1.030 I.D., 0.2150 Depth
Valve	Int	2003-06	01998	1.457 Head Diameter
		2007-08	13179	1.525 Head Diameter
	Exh	2003-06	01999	1.201 Head Diameter
		2007-08	13046	1.323 Head Diameter
Keeper	Both	2003-08	121-1098	3 RD Bead Type
Stem Seal	Both	2003-06	122-1349	Positive Type, Viton Material, Top Hat Style
		2007-08	122-1394	Positive Type, Viton Material, Top Hat Style
Guide	Both	2003-08	140-8556	0.2355 I.D., 1.735 Length, 0.4360 O.D.
Spring	Both	2003-05	160-1480	1.770 Length
		2006-08	160-1579	1.760 Length, Conical
Lifter	Both	2003-08	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2003-08	180-1323	Cam Follower
Head Bolt Set		2003-08	220-1101	Torque To Yield, Services Engine

(Cont'd) **ISUZU / PASSENGER CAR OR TRUCK**

4752cc, (4.8L), SOHC, DIESEL, FI, 16 Valve, Vin 4, 5, 4HE1, ""TURBO"" **4HE1-TC 31**
1998-04 L4 290 CID **BORE - 110.6mm/4.33""**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1998-04	SB1894E-1 1.894 O.D.,1.570T I.D.,0.2920 Depth,OEM # 8943944620, W/1.830 Head Dia.
		1998-04	SB2013E-1 2.013 O.D.,1.770T I.D.,0.2885 Depth,OEM # 8970884600, W/1.969 Head Dia.
	Exh	1998-04	SB1697E-1 1.697 O.D.,1.450T I.D.,0.2760 Depth,OEM # 8943961720
Valve	Int	1998-04	02237 1.969 Head Diameter,OEM # 8943951131, 8970338642
		1998-04	02239 1.830 Head Diameter,OEM # 8943994300, 8970338641
	Exh	1998-04	02238 1.654 Head Diameter,OEM # 8943954620, 8970604150, 8971891140, 8972195092
Stem Seal	Both	1998-04	122-1369 Positive Type,Viton Material,Metal Clad Style,OEM # 8943966092
Guide	Both	1998-04	140-3054 0.3547 I.D.,2.365 Length,0.5526 O.D.,OEM # 8943965980
Spring	Int	1998-04	160-1553 2.083 Length,Conical,Inner, OEM # 8943933971, 8943952660, 8971209110
		1998-04	160-1554 2.199 Length,Outer, OEM # 8943933961, 8943949960, 8971209120
	Exh	1998-04	160-1551 2.322 Length,Conical,Inner, OEM # 8971208990
		1998-04	160-1552 2.491 Length,Barrel Shaped,Outer, OEM # 8971209050
Head Saver Shim		1998-04	230-2152 New Hgt.- 4.6831 - 4.6870; Min. Hgt. N/A

5197cc, (5.2L), SOHC, DIESEL, FI, 16 Valve, Vin 6, 4HK1, ""TURBO"" **4HK1 32**
2005-20 L4 317 CID **BORE - 115mm/4.53""**

PART	YEARS	PART NO.	NOTES
Valve	Int	2005-10	13121 1.457 Head Diameter,OEM # 8943958820; NOTE: 5.140 overall Length
		2011-20	13463 1.457 Head Diameter,OEM # 8980388700; NOTE: 5.530 Overall Length
	Exh	2005-10	13122 1.456 Head Diameter,OEM # 8943958830, 8972098762, 8972098763; NOTE: 5.128 Overall Length
		2011-20	13464 1.456 Head Diameter,OEM # 8981583761; NOTE: 5.520"" Overall Length
Stem Seal	Both	2005-10	122-1137 Positive Type,Viton Material,Metal Clad Style,OEM # 5125690040; NOTE: Black
		2005-10	122-1413 Positive Type,Viton Material,Top Hat Style,OEM # 8972107020; NOTE: Gray
		2011-20	122-1508 Positive Type,Viton Material,Metal Clad Style,OEM # 8973767200; NOTE: Gray
Guide	Both	2005-20	140-3101 0.3150 I.D.,2.245 Length,0.5526 O.D.,OEM # 8943907800
Spring	Int	2005-20	160-1570 2.386 Length,OEM # 8973528880
	Exh	2005-20	160-1571 2.780 Length,OEM # 8972106820
Head Saver Shim		2005-10	230-2166 New Hgt.- 4.6850; Min Hgt.-N/A; 1 Required; NOTE: Early Style, This Shim Must Be Installed On Cylinder Head Side Of Gasket Due To Cylinder Sleeve Protrusion
		2011-20	230-2198 New Hgt.- 4.6850; Min Hgt.-N/A; 1 Required; NOTE: Late Style. This Shim Must Be Installed On Cylinder Head Side Of Gasket Due To Cylinder Sleeve Protrusion

323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin P, LM4, ""GM Vortec"" **ISU5.3-LM4 33**
2003-04 V8 323 CID **BORE - 96mm/3.78""**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2003-04	SB2062-50 2 ¹ / ₁₆ O.D.,1.750 I.D.,0.4200 Depth,Also Available In Non-Magnetic (N) Material
	Exh	2003-04	SB1625-64 1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

ISUZU / PASSENGER CAR OR TRUCK (Cont'd)

33 323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin P, LM4, ""GM Vortec"" ISU5.3-LM4
 (cont.) 2003-04 V8 323 CID BORE - 96mm/3.78""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	2003-04	SB1625-64PM	1 $\frac{5}{8}$ O.D.,1.335T I.D.,0.4200 Depth,OEM Equivalent PM Material,
Valve	Int	2003-04	01934	1.890 Head Diameter
	Exh	2003-04	01935	1.551 Head Diameter
Keeper	Both	2003-04	121-1085	1 RD Bead Type
Stem Seal	Int	2003-04	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2003-04	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2003-04	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2003-04	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2003-04	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2003-04	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2003-04	160-1488	2.130 Length,Conical
Lifter	Both	2003-04	VL115	Hydraulic Roller Type,Always Install Oil Hole Up To Valley On ""V"" Style Engines. ,Non-Active Fuel Management
Rocker Components	Both	2003-04	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2003-04	190-1537	7.397 Length
Head Bolt Set		2003-04	220-1102	Torque To Yield,NOTE: Services Engine

34 323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin M, LH6, ""GM AFM Vortec"" ISU5.3-LH6
 2005-06 V8 323 CID BORE - 96mm/3.78""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	2005-06	SB1625-64	1 $\frac{5}{8}$ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		2005-06	SB1625-64PM	1 $\frac{5}{8}$ O.D.,1.335T I.D.,0.4200 Depth,OEM Equivalent PM Material,
Valve	Int	2005-06	02000	2.000 Head Diameter
	Exh	2005-06	01935	1.551 Head Diameter
Keeper	Both	2005-06	121-1085	1 RD Bead Type
Stem Seal	Int	2005-06	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2005-06	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2005-06	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2005-06	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2005-06	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2005-06	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2005-06	160-1488	2.130 Length,Conical
Lifter	Both	2005-06	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 8126395160; NOTE: It Is Recommended To Replace In Sets.
		2005-06	VL558E	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2005-06	VL558FG	AFM Lifter Guide-Front Type,OEM # 8125715960; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.

(Cont'd) **ISUZU / PASSENGER CAR OR TRUCK**

323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin M, LH6, ""GM AFM Vortec"" ISU5.3-LH6 34
2005-06 V8 323 CID BORE - 96mm/3.78"" (cont.)

PART	YEARS	PART NO.	NOTES	
Lifter	Both	2005-06	VL558RG	AFM Lifter Guide-Rear Type,OEM # 8125716080; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2005-06	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 8171224900; 8 Required
Rocker Components	Both	2005-06	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2005-06	190-1537	7.397 Length
Head Bolt Set		2005-06	220-1103	Torque To Yield,NOTE: Services Engine

350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin R, L31, ""GM"" ISU5.7-L31 35
1996-03 V8 350 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1996-03	SB2000-36	2.000 O.D.,1¼ I.D.,¾ Depth
	Exh	1996-03	SB1562-1	1⅞ O.D.,1⅝ I.D.,⅞ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		1996-03	SB1562-1N	1⅞ O.D.,1⅝ I.D.,⅞ Depth,LPG Applications
Valve	Int	1996-03	01762R	1.940 Head Diameter,Optional Stainless Steel, W/O Seal Groove
		1996-03	01931	1.940 Head Diameter,1 Groove,+15 O/S Stem Available
	Exh	1996-03	01807	1.500 Head Diameter,1 Groove,+15 O/S Available
		1996-03	01807S	1.500 Head Diameter,Stellite Face,LPG Applications, +15 O/S Stem Available
Keeper	Both	1996-03	121-1003	1 SQ Bead Type
Stem Seal	Both	1996-03	122-1260	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1996-03	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
	Exh	1996-03	140-9946	0.3430 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1996-03	160-1266	2.040 Length
Lifter	Both	1996-13	VL115	Hydraulic Roller Type,Always Install Oil Hole Up To Valley On ""V"" Style Engines.
Rocker Components	Both	1996-03	180-1228	Rocker Arm
		1996-03	180-1283	Rocker Arm, Rail Type,Optional
		1996-03	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ⅜ Nut
		1996-03	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) ⅜ Nut,Optional
		1996-03	183-1017	Smooth Ball, ⅜
	1996-03	184-1038	Nut, ⅜	
Push Rod	Both	1996-03	192-1485	7.195 Length

5787cc, (5.8L), SOHC, DIESEL, FI, 24 Valve, Vin N, 6BD1, ""TURBO"" 6BD1 36
1990-91 L6 353 CID BORE - 102.24mm/4.03""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1990-91	SB1854E-2	1.854 O.D.,1.609T I.D.,0.2775 Depth,OEM # 1117150540
	Exh	1990-91	SB1539E-2	1.539 O.D.,1.297T I.D.,0.2760 Depth,OEM # 1117110430
		1990-91	SB1562-46N	1⅞ O.D.,1¼ I.D.,¾ Depth,Alternate Universal Oversize
Valve	Int	1990-91	13115	1.811 Head Diameter,OEM # 1125511390, 1125510830
	Exh	1990-91	13120	1.476 Head Diameter,OEM # 1125520830

ISUZU / PASSENGER CAR OR TRUCK (Cont'd)

36 5787cc, (5.8L), SOHC, DIESEL, FI, 24 Valve, Vin N, 6BD1, ""TURBO"" 6BD1
 (cont.) 1990-91 L6 353 CID BORE - 102.24mm/4.03""

PART	YEARS	PART NO.	NOTES
Stem Seal	Both	1990-91 122-1315	Positive Type,Viton Material,Metal Clad Style,OEM # 8971201670
Guide	Both	1990-91 140-8023	0.3548 I.D.,2.365 Length,0.5525 O.D.,OEM # 5117210010
Spring	Int	1990-91 160-1555	1.955 Length,Conical,Inner, OEM # 1125620570
		1990-91 160-1556	2.051 Length,Conical,Outer, OEM # 1125610890
	Exh	1990-91 160-1557	2.133 Length,Conical,Inner, OEM # 1125620270, 1125620580
		1990-91 160-1558	2.085 Length,Conical,Outer, OEM # 1125610380, 1125610900

37 364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin U, LQ4, ""GM H.O. Vortec"" ISU6.0-LQ4
 2003-12 V8 364 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2003-12 SB2062-51	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,Also Available In Non-Magnetic (N) Material
		2003-12 SB2062-51N	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,LPG
	Exh	2003-12 SB1625-64	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		2003-12 SB1625-64N	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,LPG
Valve	Int	2003-12 02000	2.000 Head Diameter,Unleaded Fuel Only
		2003-12 02267	2.000 Head Diameter,LPG
	Exh	2003-12 01935	1.551 Head Diameter,Unleaded Fuel Only
		2003-12 01935S	1.551 Head Diameter,Stellite Face,LPG
Keeper	Both	2003-12 121-1085	1 RD Bead Type
Stem Seal	Int	2003-12 122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2003-12 122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2003-12 140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2003-12 140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2003-12 140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
Spring	Both	2003-12 160-1488	2.130 Length,Conical
Lifter	Both	2003-12 VL115	Hydraulic Roller Type,Always Install Oil Hole Up To Valley On ""V"" Style Engines. ,Non-Active Fuel Management
Rocker Components	Both	2003-12 180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2003-12 190-1537	7.397 Length
Head Bolt Set		2003-04 220-1102	Torque To Yield,1st Design; NOTE: Services Engine
		2004-12 220-1103	Torque To Yield,2nd Design; NOTE: Services Engine
Head Saver Shim		2003-12 230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

38 364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin N, LQ9, ""GM Vortec"" ISU6.0-LQ9
 2007-12 V8 364 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2007-12 SB2062-51	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,Also Available In Non-Magnetic (N) Material,W/ 2.000 Head Dia.
		2007-12 SB2062-51PM	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,W/2.00 Head. OEM Equivalent PM Material
		2007-12 SB2250-50	2 ¹ / ₄ O.D.,1 ⁷ / ₈ I.D., ³ / ₈ Depth,W/ 2.165 Head Dia.; NOTE: Universal Repair Seat, Requires 2 ¹ / ₄ "" Cutter.
		2007-12 SB2250-50PM	2 ¹ / ₄ O.D.,1 ⁷ / ₈ I.D., ³ / ₈ Depth,W/2.165"" Head Diameter. OEM Equivalent PM Material, NOTE: Universal Repair Seat, Requires 2 ¹ / ₄ "" Cutter.

(Cont'd) **ISUZU / PASSENGER CAR OR TRUCK**

364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin N, LQ9, ""GM Vortec"" ISU6.0-LQ9 **38**
2007-12 V8 364 CID BORE - 101.6mm/4.00"" (cont.)

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	2007-12	SB1625-64	1 $\frac{5}{8}$ O.D., 1.335T I.D., 0.4200 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.551 Head Dia.
		2007-12	SB1625-64N	1 $\frac{5}{8}$ O.D., 1.335T I.D., 0.4200 Depth, W/ 1.551 Head Dia.; LPG
		2007-12	SB1634E-3	1.634 O.D., 1.360T I.D., 0.3000 Depth, NOTE: Services Factory Installed Seat.
		2007-12	SB1634E-3PM	1.634 O.D., 1.360T I.D., 0.3000 Depth, OEM Equivalent PM Material. NOTE: Services Factory Installed Seat.
Valve	Int	2007-12	02000	2.000 Head Diameter
		2007-12	13040	2.165 Head Diameter
	Exh	2007-12	01935	1.551 Head Diameter
		2007-12	01935S	1.551 Head Diameter, Stellite Face, LPG
		2007-12	13042	1.587 Head Diameter
Keeper	Both	2007-12	121-1085	1 RD Bead Type
Stem Seal	Int	2007-12	122-1337	Positive Type, Viton Material, Top Hat Style
	Exh	2007-12	122-1338	Positive Type, Viton Material, Top Hat Style
Guide	Both	2007-12	140-3053	0.3154 I.D., 2.115 Length, 0.5000 O.D., +2 O/S Available (140-3053+2)
		2007-12	140-3053H	0.3154 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional Hardened Version
		2007-12	140-3053U	0.3054 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional - 010 Undersized I.D.
		2007-12	340-1046BR	0.3150 I.D., 2.120 Length, 0.5010 O.D., NOTE: Optional Bronze Version
Spring	Both	2007-12	160-1488	2.130 Length, Conical
Lifter	Both	2007-12	VL559	Hydraulic Roller Type, Oil Hole Is Positioned In Line With Roller Pin., Non-Active Fuel Management; OEM # 17122490
		2007-12	VL559G	Non-AFM Lifter Guide Type, Non-AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
Rocker Components	Both	2007-12	180-1337	Rocker Arm, Roller Pivot Assy., NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2007-12	190-1537	7.397 Length
Head Bolt Set		2007-12	220-1103	Torque To Yield, NOTE: Services Engine
Head Saver Shim		2007-12	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin G, L96, ""GM Vortec"" ISU6.0-L96 **39**
2012-19 V8 364 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2012-19	SB2250-50	2 $\frac{1}{4}$ O.D., 1 $\frac{7}{8}$ I.D., $\frac{3}{8}$ Depth, NOTE: Universal Repair Seat, Requires 2 $\frac{1}{4}$ "" Cutter.
		2012-19	SB2250-50PM	2 $\frac{1}{4}$ O.D., 1 $\frac{7}{8}$ I.D., $\frac{3}{8}$ Depth, OEM Equivalent PM Material, NOTE: Universal Repair Seat, Requires 2 $\frac{1}{4}$ "" Cutter.
	Exh	2012-19	SB1634E-3	1.634 O.D., 1.360T I.D., 0.3000 Depth, NOTE: Services Factory Installed Seat.
		2012-19	SB1634E-3PM	1.634 O.D., 1.360T I.D., 0.3000 Depth, OEM Equivalent PM Material. NOTE: Services Factory Installed Seat.
Valve	Int	2012-19	13240	2.165 Head Diameter
	Exh	2012-15	13042	1.587 Head Diameter, Stainless Steel
		2012-19	13241S	1.589 Head Diameter, Stellite Face
		2012-19	13440	1.587 Head Diameter, Inconel
Keeper	Both	2012-19	121-1085	1 RD Bead Type
Stem Seal	Int	2012-19	122-1337	Positive Type, Viton Material, Top Hat Style

ISUZU / PASSENGER CAR OR TRUCK (Cont'd)

39 364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin G, L96, ""GM Vortec"" ISU6.0-L96
 (cont.) 2012-19 V8 364 CID BORE - 101.6mm/4.00""

PART		YEARS	PART NO.	NOTES
Stem Seal	Exh	2012-19	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2012-19	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2012-19	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2012-19	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2012-19	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2012-19	160-1488	2.130 Length,Conical
Lifter	Both	2012-19	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490
		2012-19	VL559G	Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
Rocker Components	Both	2012-19	180-1336	Rocker Arm, Roller Pivot Assy.
		2012-19	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2012-19	190-1537	7.397 Length
Head Bolt Set		2012-19	220-1123	Torque To Yield,Services Engine
Head Saver Shim		2012-19	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

40 7128cc, (7.1L), SOHC, DIESEL, FI, 12 Valve, Vin 2, 6HE1, ""TURBO"" 6HE1TC
 1995-98 L6 435 CID BORE - 107.2mm/4.22""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1995-98	SB1894E-1	1.894 O.D.,1.570T I.D.,0.2920 Depth,OEM # 8943944620, W/1.830 Head Dia.
		1995-98	SB2013E-1	2.013 O.D.,1.770T I.D.,0.2885 Depth,OEM # 8970884600, W/1.969 Head Dia.
	Exh	1995-98	SB1697E-1	1.697 O.D.,1.450T I.D.,0.2760 Depth,OEM # 8943961720
Valve	Int	1995-98	02237	1.969 Head Diameter,OEM # 8943951131, 8970338642
		1995-98	02239	1.830 Head Diameter,OEM # 8943994300, 8970338641
	Exh	1995-98	02238	1.654 Head Diameter,OEM # 8943954620, 8970604150, 8971891140, 8972195092
Stem Seal	Both	1995-98	122-1369	Positive Type,Viton Material,Metal Clad Style,OEM # 8943966092
Guide	Both	1995-98	140-3054	0.3547 I.D.,2.365 Length,0.5526 O.D.,OEM # 8943965980
Spring	Int	1995-98	160-1553	2.083 Length,Conical,Inner, OEM # 8943933971, 8943952660, 8971209110
		1995-98	160-1554	2.199 Length,Outer, OEM # 8943933961, 8943949960, 8971209120
	Exh	1995-95	160-1567	2.789 Length,Barrel Shape,Outer, OEM # 8943933100
		1995-98	160-1566	2.423 Length,Inner, OEM # 8943975000

41 7784cc, (7.8L), SOHC, DIESEL, FI, 24 Valve, Vin 3, 6HK1, ""TURBO"" 6HK1TC
 1998-11 L6 475 CID BORE - 115mm/4.529""

PART		YEARS	PART NO.	NOTES
Valve	Int	1998-11	13121	1.457 Head Diameter,OEM # 8943958820
	Exh	1998-11	13122	1.456 Head Diameter,OEM # 8943958830, 8972098762, 8972098763
Stem Seal	Both	1998-11	122-1137	Positive Type,Viton Material,Metal Clad Style,OEM # 8971203070: NOTE: Black
Guide	Both	1998-11	140-3101	0.3150 I.D.,2.245 Length,0.5526 O.D.,OEM # 8943907800

(Cont'd) **ISUZU / PASSENGER CAR OR TRUCK**

7784cc, (7.8L), SOHC, DIESEL, FI, 24 Valve, Vin 3, 6HK1, ""TURBO"" **6HK1TC 41**
1998-11 L6 475 CID **BORE - 115mm/4.529"" (cont.)**

PART	YEARS	PART NO.	NOTES
Head Saver Shim	1998-11	230-2197	New Hgt. - 4.6850"" - Min. hgt. - N/A: 1 Required; This Shim Must Be Installed On Cylinder Head Side Of Gasket Due To Cylinder Sleeve Protrusion

8406cc, (8.4L), OHV, DIESEL, FI, 12 Valve, 6SA1, ""TURBO"" **6SA1 42**
1987-93 L6 513 CID **BORE - 115mm/4.53""**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1987-93	SB1894E-2	1.894 O.D.,1.575T I.D.,.256 Depth,OEM # 1117110410, 1117110601; NOTE: 30 Degree Seat
Valve	Int 1987-93	13117	1.929 Head Diameter,OEM # 1125511110, 1125511112
	Exh 1987-93	13118S	1.815 Head Diameter,Stellite Face,OEM # 1125520630
Keeper	Both	121-1119	TBA,OEM # 1125650020
Stem Seal	Both 1987-91	122-1407	Positive Type,Viton Material,Metal Clad Style,OEM # 5125690160
Guide	Both 1987-93	140-8024	0.3935 I.D.,2.360 Length,0.6315 O.D.,OEM # 1117210080
Spring	Int 08/87-12/90	160-1545	2.165 Length,Inner, OEM # 1125620080, From 8/1987 To 12/1990
	08/87-12/90	160-1546	2.300 Length,Outer, OEM # 1125610110
Rotator	Both	161-9005	TBA, Retainer,OEM # 5125630331
		161-9011	TBA, Valve Spring Seat,OEM # 9125632310

ISUZU / INDUSTRIAL

Engine	Models	Line No.
4 Cylinder		
2376cc, (2.4L), C240, Diesel, OHV, 8 Valve, ""Forklift""	Forklifts, Industrial	1
3867cc, (3.9L), 4BD1T/4BD2T, Diesel, SOHC, 16 Valve, ""TURBO""	Industrial	2
4752cc, (4.8L), 4HE1TC, Diesel, SOHC, 16 Valve, ""TURBO""	Industrial	3
5197cc, (5.2L), 4HK1TC, Diesel, SOHC, 16 Valve, ""TURBO""	Industrial	4
6 Cylinder		
5785cc, (5.8L), 6BD1T, Diesel, SOHC, 24 Valve, ""1986-93 TURBO""	Industrial 1986-93	5
6489cc, (6.5L), 6BG1, Diesel, SOHC, 24 Valve, ""1986-93""	Industrial 1986-93	6
7131cc, (7.1L), 6HE1TC/6HE1TCN, Diesel, SOHC, 24 Valve, ""TURBO""	Industrial	7
7784cc, (7.8L), 6HK1TCN/6HK1TCS, Diesel, SOHC, 24 Valve, ""TURBO""	Industrial	8
8407cc, (8.4L), 6SA1T/6SA1TC, Diesel, SOHC, 24 Valve, ""TURBO""	Industrial	9

2376cc, (2.4L), C240, Diesel, OHV, 8 Valve, ""Forklift"" **C240 1**
L4 145 CID **BORE - 86mm/3.3858""**

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1625-55	1 $\frac{5}{8}$ O.D.,1.333T I.D.,0.2370 Depth,OEM # 5117110260
	Exh SB1437-58	1 $\frac{7}{16}$ O.D.,1.095T I.D.,0.2370 Depth,OEM # 5117150230
Valve	Int 10216	1.575 Head Diameter,OEM # 5125510280
	Exh 10217	1.339 Head Diameter,OEM # 5125520340

ISUZU / INDUSTRIAL (Cont'd)

1 3276cc, (2.4L), C240, Diesel, OHV, 8 Valve, ""Forklift"" C240
 (cont.) L4 145 CID BORE - 86mm/3.3858""

PART	PART NO.	NOTES
Stem Seal	Both 122-1137	Positive Type,Viton Material,Metal Clad Style,OEM # 5125690040
Guide	Both 140-7656	0.3145 I.D.,1.970 Length,0.5528 O.D.,OEM # 5117210160

2 3867cc, (3.9L), 4BD1T/4BD2T, Diesel, SOHC, 16 Valve, ""TURBO"" IND-4BD1T
 L4 236 CID BORE - 102mm/4.016""

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1854E-1 Exh SB1539E-2 SB1562-46N	1.854 O.D.,1.610T I.D.,0.2770 Depth,OEM # 9117156070 1.539 O.D.,1.297T I.D.,0.2760 Depth,OEM # 5117110340 1 ¹ / ₁₆ O.D.,1 ¹ / ₄ I.D., ⁹ / ₃₂ Depth,Alternate Universal Oversize
Valve	Int 10725 Exh 10726 10728S	1.772 Head Diameter,OEM # 8970287020, 8970343790, 8941295500, 8944619570 1.476 Head Diameter,OEM # 8970287060, 5125520480, 8943331140, 8944619580, 4BD1 Non-Turbo 1.476 Head Diameter,Inconel, Stellite Face,OEM # 8970850662, 8970427240, 8970949940, 4BD2T Turbo Applications
Stem Seal	Both 122-1315	Positive Type,Viton Material,Metal Clad Style,OEM # 1125690010
Guide	Both 140-8023	0.3548 I.D.,2.365 Length,0.5525 O.D.,OEM # 5117210010
Spring	Both 160-1434 160-1435	2.059 Length,Inner, OEM # 8941255110 2.131 Length,Outer, OEM # 8941255120

3 4752cc, (4.8L), 4HE1TC, Diesel, SOHC, 16 Valve, ""TURBO"" IND-4HE1TC
 L4 290 CID BORE - 110mm/4.3323""

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1894E-1 SB2013E-1 Exh SB1697E-1	1.894 O.D.,1.570T I.D.,0.2920 Depth,OEM # 8943944620, W/1.830 Head Dia. 2.013 O.D.,1.770T I.D.,0.2885 Depth,OEM # 8970884600, W/1.969 Head Dia. 1.697 O.D.,1.450T I.D.,0.2760 Depth,OEM # 8943961720
Valve	Int 02237 02239 Exh 02238	1.969 Head Diameter,OEM # 8943951131, 8970338642 1.830 Head Diameter,OEM # 8943994300, 8970338641 1.654 Head Diameter,OEM # 8943954620, 8970604150, 8971891140, 8972195092
Stem Seal	Both 122-1369	Positive Type,Viton Material,Metal Clad Style,OEM # 8943966092
Guide	Both 140-3054	0.3547 I.D.,2.365 Length,0.5526 O.D.,OEM # 8943965980
Spring	Int 160-1553 160-1554 Exh 160-1551 160-1552	2.083 Length,Conical,Inner, OEM # 8943933971, 8943952660, 8971209110 2.199 Length,Outer, OEM # 8943933961, 8943949960, 8971209120 2.322 Length,Conical,Inner, OEM # 8971208990 2.491 Length,Barrel Shaped,Outer, OEM # 8971209050
Head Saver Shim	230-2152	New Hgt. - 4.6831 - 4.6870; Min. Hgt. N/A

4 5197cc, (5.2L), 4HK1TC, Diesel, SOHC, 16 Valve, ""TURBO"" IND-4HK1
 L4 317 CID BORE - 115mm/4.53""

PART	PART NO.	NOTES
Valve	Int 13121 13463 Exh 13122 13464	1.457 Head Diameter,OEM # 8943958820; NOTE: 5.140 Overall Length 1.457 Head Diameter,8980388700; NOTE: 5.530"" Overall Length 1.456 Head Diameter,OEM # 8943958830, 8972098762, 8972098763 1.456 Head Diameter,8981583761; NOTE: 5.520"" Overall Length
Stem Seal	Both 122-1137 122-1413 122-1508	Positive Type,Viton Material,Metal Clad Style,OEM # 5125690040; NOTE: Black Viton Positive Type,Viton Material,Top Hat Style,OEM # 8-97210-702-0 Positive Type,Viton Material,Metal Clad Style,NOTE: Gray Viton
Guide	Both 140-3101	0.3150 I.D.,2.245 Length,0.5526 O.D.,OEM # 8-94390-780-0

(Cont'd) ISUZU / INDUSTRIAL**5197cc, (5.2L), 4HK1TC, Diesel, SOHC, 16 Valve, ""TURBO""**
L4 317 CID**IND-4HK1 4**
BORE - 115mm/4.53"" (cont.)

PART		PART NO.	NOTES
Spring	Int	160-1570	2.386 Length,OEM # 8-97352-888-0
	Exh	160-1571	2.780 Length,OEM # 8-97210-692-0
Head Saver Shim		230-2166	New Hgt.- 4.6850; Min Hgt.-N/A; 1 Required; NOTE: Early Style 2005-10, This Shim Must Be Installed On Cylinder Head Side Of Gasket Due To Cylinder Sleeve Protrusion
		230-2198	New Hgt.- 4.6850; Min Hgt.-N/A; 1 Required; NOTE: Late Style From 2011. This Shim Must Be Installed On Cylinder Head Side Of Gasket Due To Cylinder Sleeve Protrusion

5785cc, (5.8L), 6BD1T, Diesel, SOHC, 24 Valve, ""1986-93 TURBO""
L6 353 CID**IND-6BD1T 5**
BORE - 102mm/4.016""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1854E-2	1.854 O.D.,1.609T I.D.,0.2775 Depth,OEM # 1117150540
	Exh	SB1539E-2	1.539 O.D.,1.297T I.D.,0.2760 Depth,OEM # 1117110430
		SB1562-46N	1 ⁹ / ₁₆ O.D.,1 ¹ / ₄ I.D., ⁹ / ₃₂ Depth,Alternate Universal Oversize
Valve	Int	13115	1.811 Head Diameter,OEM # 1125511390, 1125510830
	Exh	13120	1.476 Head Diameter,OEM # 1125520830
Stem Seal	Both	122-1315	Positive Type,Viton Material,Metal Clad Style,OEM # 8971201670
Guide	Both	140-8023	0.3548 I.D.,2.365 Length,0.5525 O.D.,OEM # 5117210010
Spring	Int	160-1555	1.955 Length,Conical,Inner, OEM # 1125620570
		160-1556	2.051 Length,Conical,Outer, OEM # 1125610890
	Exh	160-1557	2.133 Length,Conical,Inner, OEM # 1125620270, 1125620580
		160-1558	2.085 Length,Conical,Outer, OEM # 1125610380, 1125610900

6489cc, (6.5L), 6BG1, Diesel, SOHC, 24 Valve, ""1986-93""
L6 396 CID**IND-6BG1 6**
BORE - 105.04mm/4.135""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1854E-2	1.854 O.D.,1.609T I.D.,0.2775 Depth,OEM #1117150540
	Exh	SB1539E-2	1.539 O.D.,1.297T I.D.,0.2760 Depth,OEM # 1117110430
Valve	Int	13115	1.811 Head Diameter,OEM # 1125511390, 1125510830
	Exh	13120	1.476 Head Diameter,OEM # 1125520830
Stem Seal	Both	122-1315	Positive Type,Viton Material,Metal Clad Style,OEM # 5125690010
Guide	Both	140-8023	0.3548 I.D.,2.365 Length,0.5525 O.D.,OEM # 5117210010
Spring	Int	160-1555	1.955 Length,Conical,Inner, OEM # 1125620570, From 11/1989 To 12/1993
		160-1556	2.051 Length,Conical,Outer, OEM # 1125610890, From 11/1989 To 12/1993
	Exh	160-1557	2.133 Length,Conical,Inner, OEM # 1125620270, 1125620580, From 11/1989 To 12/1993
		160-1558	2.085 Length,Conical,Outer, OEM # 1125610380, 1125610900, From 11/1989 To 12/1993

7131cc, (7.1L), 6HE1TC/6HE1TCN, Diesel, SOHC, 24 Valve, ""TURBO""
L6 435 CID**IND-6HE1TC 7**
BORE - 107mm/4.2207""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1894E-1	1.894 O.D.,1.570T I.D.,0.2920 Depth,OEM # 8943944620, W/1.830 Head Dia.
		SB2013E-1	2.013 O.D.,1.770T I.D.,0.2885 Depth,OEM # 8970884600, W/1.969 Head Dia.
	Exh	SB1697E-1	1.697 O.D.,1.450T I.D.,0.2760 Depth,OEM # 8943961720
Valve	Int	02237	1.969 Head Diameter,OEM # 8943951131, 8970338642
		02239	1.830 Head Diameter,OEM # 8943994300, 8970338641
	Exh	02238	1.654 Head Diameter,OEM # 8943954620, 8970604150, 8971891140, 8972195092

ISUZU / INDUSTRIAL (Cont'd)

7 7131cc, (7.1L), 6HE1TC/6HE1TCN, Diesel, SOHC, 24 Valve, ""TURBO"" IND-6HE1TC
(cont.) L6 435 CID BORE - 107mm/4.2207""

PART		PART NO.	NOTES
Stem Seal	Both	122-1369	Positive Type,Viton Material,Metal Clad Style,OEM # 8943966092
Guide	Both	140-3054	0.3547 I.D.,2.365 Length,0.5526 O.D.,OEM # 8943965980
Spring	Int	160-1553	2.083 Length,Conical,Inner, OEM # 8943933971, 8943952660, 8971209110
		160-1554	2.199 Length,Outer, OEM # 8943933961, 8943949960, 8971209120
	Exh	160-1566	2.423 Length,Inner, OEM # 8943975000
		160-1567	2.789 Length,Barrel Shape,Outer, OEM # 8943933100

8 7784cc, (7.8L), 6HK1TCN/6HK1TCS, Diesel, SOHC, 24 Valve, ""TURBO"" IND-6HK1TCN
L6 475 CID BORE - 115mm/4.53""

PART		PART NO.	NOTES
Valve	Int	13121	1.457 Head Diameter,OEM # 8943958820
	Exh	13122	1.456 Head Diameter,OEM # 8943958830, 8972098762, 8972098763
Stem Seal	Both	122-1137	Positive Type,Viton Material,Metal Clad Style,OEM # 8971203070 NOTE: Black Viton
Guide	Both	140-3101	0.3150 I.D.,2.245 Length,0.5526 O.D.,OEM # 8943907800
Head Saver Shim		230-2197	New Hgt. - 4.6850"" - Min. hgt. - N/A; 1 Required; This Shim Must Be Installed On Cylinder Head Side Of Gasket Due To Cylinder Sleeve Protrusion

9 8407cc, (8.4L), 6SA1T/6SA1TC, Diesel, SOHC, 24 Valve, ""TURBO"" IND-6SA1T
L6 513 CID BORE - 115mm/4.53""

PART		PART NO.	NOTES
Valve	Int	13117	1.929 Head Diameter,OEM # 1125511110, 1125511112
	Exh	13118S	1.815 Head Diameter,Stellite Face,OEM # 1125520630
Stem Seal	Both	122-1407	Positive Type,Viton Material,Metal Clad Style,OEM # 5125690160, 1987-90
Guide	Both	140-8024	0.3935 I.D.,2.360 Length,0.6315 O.D.,OEM # 1117210080
Spring	Int	160-1545	2.165 Length,Inner, OEM # 1125620080, From 8/1987 To 12/1990
		160-1546	2.300 Length,Outer, OEM # 1125610110, From 8/1987 To 12/1990

IVECO / HEAVY DUTY

Engine Models Line No.
6 Cylinder

786 C.I., (12.9L), CURSOR 13, Diesel, SOHC, 24 Valve,
""TURBO"" 1

1 786 C.I., (12.9L), CURSOR 13, Diesel, SOHC, 24 Valve, ""TURBO"" CURSOR 13
L6 786 CID BORE - 135.0mm/5.315""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1940E-2	1.940 O.D.,1.515T I.D.,0.3010 Depth,OEM Equivalent PM Material,OEM # 504362587
	Exh	SB1853E-3	1.853 O.D.,1.515T I.D.,0.3080 Depth,OEM Equivalent PM Material,OEM # 504362588, 99450512
Valve	Int	13451	1.850 Head Diameter,OEM # 500355778
	Exh	13452	1.811 Head Diameter,Inconel,OEM # 504080352, 504293892
Stem Seal	Both	122-1500	Positive Type,Viton Material,Metal Clad Style,OEM # 40101874
Guide	Int	140-3209	0.3944 I.D.,3.820 Length,0.6305 O.D.,OEM # 504375602, 500390993
	Exh	140-3210	0.3944 I.D.,3.820 Length,0.6305 O.D.,OEM # 504375600, 500390994
Spring	Both	160-1694	2.890 Length,OEM # 504100000

JAGUAR / PASSENGER CAR

Engine	Models	Line No.
6 Cylinder		
181 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin A, F, W, ""Ford Duratec"" (2000-08)	S-Type, X-Type	1
3800cc, (3.8L), DOHC, GAS, CARB, 24 Valve, XK (1959-67)	3.8, Mark IX, Mark X, XK150, XKE	2
4200cc, (4.2L), DOHC, GAS, CARB, FI, 24 Valve, Vin 2, 3, N, XK (1964-87)	420, Mark X, Vanden Plas, XJ, XJ6, XKE	3
12 Cylinder		
5343cc, (5.3L), SOHC, GAS, CARB, 24 Valve, Vin 0,8,V, X, V12HE (1971-92)	V12, XJ12, XKE	4

181 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin A, F, W, ""Ford Duratec"" JAG3.0-FD **1**
 2000-08 V6 181 CID BORE - 89mm/3.5039""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2000-08	02245	1.378 Head Diameter
	Exh	2000-08	02246	1.185 Head Diameter
Keeper	Both	2000-08	121-1103	1 RD Bead Type
Guide	Both	2000-08	140-3028	0.2175 I.D.,1.455 Length,0.3774 O.D.

3800cc, (3.8L), DOHC, GAS, CARB, 24 Valve, XK JAG3.8-XK **2**
 1959-67 L6 231 CID BORE - 87mm/3.43""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1959-67	SB1875-53	1 $\frac{7}{8}$ O.D.,1.505T I.D.,0.3800 Depth

4200cc, (4.2L), DOHC, GAS, CARB, FI, 24 Valve, Vin 2, 3, N, XK JAG4.2-XK **3**
 1964-87 L6 258 CID BORE - 92mm/3.63""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1964-79	SB1875-53	1 $\frac{7}{8}$ O.D.,1.505T I.D.,0.3800 Depth
		1980-87	SB2000-50	2.000 O.D.,1.625T I.D.,0.3680 Depth

5343cc, (5.3L), SOHC, GAS, CARB, 24 Valve, Vin 0,8,V, X, V12HE JAG5.3-V12HE **4**
 1971-92 V12 BORE - 90mm/3.54""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1971-81	SB1500-71	1 $\frac{1}{2}$ O.D.,1.240 I.D.,0.3170 Depth

JOHN DEERE / TRACTOR

Engine	Models	Line No.
2 Cylinder		
100.5 C.I., (1.6L), 100.5, Gas, OHV, 4 Valve		5
113 C.I., (1.9L), 113, Gas, OHV, 4 Valve		6
190 C.I., (3.1L), 190B, Diesel/Gas, OHV, 4 Valve		29
321 C.I., (5.3L), 321, Gas, OHV, 4 Valve	60 Series Gas	50
379 C.I., (6.2L), 379, Gas, OHV, 4 Valve	70	58
3 Cylinder		
91 C.I., (1.5L), 3TNE84 (3015D), Diesel, OHV, 6 Valve, ""Yanmar""		1
91 C.I., (1.5L), 3TNV84/T, Diesel, OHV, 6 Valve, ""Yanmar N/ A & TURBO""		2
100 C.I., (1.6L), 3TNE88, Diesel, OHV, 6 Valve, ""Yanmar""		3
100 C.I., (1.6L), 3TNV88, Diesel, OHV, 6 Valve, ""Yanmar""		4
135 C.I., (2.2L), 135, Gas, OHV, 8 Valve		14

JOHN DEERE / TRACTOR (Cont'd)

Engine	Models	Line No.
3 Cylinder		
152 C.I., (2.5L), 152, Diesel, OHV, 6 Valve		18
164 C.I., (2.7L), 164, Diesel, OHV, 6 Valve		19
164 C.I., (2.7L), 164, Gas, OHV, 6 Valve		20
179 C.I., (2.9L), 179D/3179D, Diesel, OHV, 6 Valve		23
179 C.I., (2.9L), 179T/3179T, Diesel, OHV, 6 Valve, ""TURBO""		24
179 C.I., (2.9L), 3029D, Diesel, OHV, 6 Valve, ""PowerTech""		25
179 C.I., (2.9L), 3029T/H, Diesel, OHV, 6 Valve, ""PowerTech TURBO""		26
4 Cylinder		
115 C.I., (1.9L), 115, Gas, OHV, 8 Valve		7
122 C.I., (2.0L), 4TNE84, Diesel, OHV, 8 Valve, ""Yanmar""		8
122 C.I., (2.0L), 4TNE84T (4020T), Diesel, OHV, 8 Valve, ""Yanmar TURBO""		9
122 C.I., (2.0L), 4TNV84, Diesel, OHV, 8 Valve, ""Yanmar""		10
122 C.I., (2.0L), 4TNV84T, Diesel, OHV, 16 Valve, ""Yanmar TURBO""		11
134 C.I., (2.2L), 4TNE88, Diesel, OHV, 8 Valve, ""Yanmar""		12
134 C.I., (2.2L), 4TNV88, Diesel, OHV, 8 Valve, ""Yanmar""		13
147 C.I., (2.4L), 4024, Diesel, OHV, 8 Valve, ""PowerTech TURBO""		15
145 C.I., (2.4L), 145, Gas, OHV, 8 Valve		16
145 C.I., (2.4L), 145, Diesel/LPG, OHV, 8 Valve		17
165 C.I., (2.7L), 165, Gas, OHV, 8 Valve		21
165 C.I., (2.7L), 165, Diesel, OHV, 8 Valve		22
180 C.I., (3.0L), 180, Gas, OHV, 8 Valve		27
201 C.I., (3.3L), 201, GAS, OHV, 8 Valve		30
202 C.I., (3.3L), 202, Diesel, OHV, 8 Valve		31
219 C.I., (3.6L), 219, Diesel, OHV, 8 Valve		34
227 C.I., (3.7L), 227, Gas/LPG, OHV, 8 Valve	3020 Tractor Gas/LPG	35
239 C.I., (3.9L), 239D/4239D, Diesel, OHV, 8 Valve		36
239 C.I., (3.9L), 239T/4239T, Diesel, OHV, 8 Valve, ""TURBO""		37
239 C.I., (3.9L), 4039, Diesel, OHV, 8 Valve, ""PowerTech""		38
239 C.I., (3.9L), 276T/4276T, Diesel, OHV, 8 Valve, ""TURBO""		39
241 C.I., (3.9L), 4241, Gas/LPG, OHV, 8 Valve		40
254 C.I., (4.2L), 254, Diesel, OHV, 8 Valve		41
270 C.I., (4.4L), 270/4270, Diesel, OHV, 8 Valve		42
275 C.I., (4.5L), 4045, Diesel, OHV, 16 Valve, ""Tier 2-3 PowerTech Plus TURBO""		43
275 C.I., (4.5L), 4045, Diesel, OHV, 16 Valve, ""Tier 4 PowerTech Plus TURBO""		44
276 C.I., (4.5L), 276D/4276D, Diesel, OHV, 8 Valve		45
276 C.I., (4.5L), 4045, Diesel, OHV, 8 Valve, ""PowerTech""		46

Engine	Models	Line No.
4 Cylinder		
276 C.I., (4.5L), 4045T/H, Diesel, OHV, 8 Valve, ""PowerTech TURBO""		47
5 Cylinder		
186 C.I., (3.0L), 5030, Diesel, OHV, 10 Valve, ""PowerTech TURBO""		28
6 Cylinder		
217 C.I., (3.6L), 217, Gas, OHV, 12 Valve		32
217 C.I., (3.6L), 217, LPG, OHV, 12 Valve		33
301 C.I., (4.9L), 301, Gas, OHV, 12 Valve		48
303 C.I., (5.0L), 303, Diesel, OHV, 12 Valve		49
329 C.I., (5.4L), 329, Diesel, OHV, 12 Valve		51
340 C.I., (5.6L), 340, Gas/LPG, OHV, 12 Valve		52
341 C.I., (5.6L), 341, Gas/LPG, OHV, 12 Valve		53
359 C.I., (5.9L), 6059, Diesel, OHV, 12 Valve, ""PowerTech TURBO""		54
359 C.I., (5.9L), 359D/6359D, Diesel, OHV, 12 Valve		55
359 C.I., (5.9L), 359T/6359T, Diesel, OHV, 12 Valve, ""TURBO""		56
362 C.I., (5.9L), 362/6362, Gas/LPG, OHV, 12 Valve		57
381 C.I., (6.2L), 381, Diesel, OHV, 12 Valve		59
404 C.I., (6.6L), 404, Diesel, OHV, 12 Valve		60
404 C.I., (6.6L), 404ATDiesel, OHV, 12 Valve, ""TURBO""		61
414 C.I., (6.8L), 414D/6414D, Diesel, OHV, 12 Valve		62
414 C.I., (6.8L), 414T/6414T, Diesel, OHV, 12 Valve, ""TURBO""		63
414 C.I., (6.8L), 6068D, Diesel, OHV, 12 Valve, ""PowerTech""		64
414 C.I., (6.8L), 6068T/H, Diesel, OHV, 12 Valve, ""PowerTech TURBO""		65
414 C.I., (6.8L), 6068, Diesel, OHV, 24 Valve, ""Tier 2-3 PowerTech Plus TURBO""		66
414 C.I., (6.8L), 6068, Diesel, OHV, 24 Valve, ""Tier 4 PowerTech Plus TURBO""		67
466 C.I., (7.6L), 466D/6466D, Diesel, OHV, 12 Valve		68
466 C.I., (7.6L), 466A/6466T, Diesel, OHV, 12 Valve, ""Intercooled TURBO""		69
466 C.I., (7.6L), 6076A/6076T, Diesel, OHV, 12 Valve, ""TURBO""		70
496 C.I., (8.1L), 6081, Diesel, OHV, 12 Valve, ""PowerTech TURBO""		71
531 C.I., (8.7L), 6531A, Diesel, OHV, 12 Valve, ""Intercooled TURBO""		72
531 C.I., (8.7L), 6531D, Diesel, OHV, 12 Valve		73
549 C.I., (9.0L), 6090, Diesel, SOHC, 24 Valve, ""PowerTech Plus TURBO""		74
619 C.I., (10.1L), 6619T, Diesel, OHV, 12 Valve, ""Intercooled TURBO""		75

JOHN DEERE / TRACTOR (Cont'd)

Engine	Models	Line No.
6 Cylinder		
619 C.I., (10.1L), 6101A-T, Diesel, OHV, 12 Valve, ""500 Series TURBO""		76
644 C.I., (10.5L), 6105A/H, Diesel, SOHC, 24 Valve, ""PowerTech TURBO""		77
766 C.I., (12.5L), 6125A/H, Diesel, SOHC, 24 Valve, ""PowerTech TURBO""		78
824 C.I., (13.5L), 6135, Diesel, SOHC, 24 Valve, ""PowerTech Plus TURBO""		79

1	91 C.I., (1.5L), 3TNE84 (3015D), Diesel, OHV, 6 Valve, ""Yanmar""	JON-3TNE84
	L3 91 CID	BORE - 84mm/3.307""

PART	PART NO.	NOTES
Valve	Int 13415	1.378 Head Diameter,OEM # M801220
	Exh 13416	1.181 Head Diameter,OEM # MIU800494
Keeper	Both 121-1138	1 SQ Bead Type,OEM # AM878862
Stem Seal	Int 122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # CH10450
	Exh 122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # T110650
Guide	Int 140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # M801227
	Exh 140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # M801228
Spring	Both 160-1665	1.760 Length,OEM # M801222

2	91 C.I., (1.5L), 3TNV84/T, Diesel, OHV, 6 Valve, ""Yanmar N/A & TURBO""	JON-3TNV84/T
	L3 91 CID	BORE - 84mm/3.307""

PART	PART NO.	NOTES
Valve	Int 13414	1.417 Head Diameter,OEM # MIU800446
	Exh 13416	1.181 Head Diameter,OEM # MIU800494
Keeper	Both 121-1138	1 SQ Bead Type,OEM # AM878862
Stem Seal	Int 122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # CH10450
	Exh 122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # T110650
Guide	Int 140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # M801227
	Exh 140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # M801228
Spring	Both 160-1665	1.760 Length,OEM # M801222

3	100 C.I., (1.6L), 3TNE88, Diesel, OHV, 6 Valve, ""Yanmar""	JON-3TNE88
	L3 100 CID	BORE - 88mm/3.465""

PART	PART NO.	NOTES
Valve	Int 13415	1.378 Head Diameter,OEM # M801220
	Exh 13416	1.181 Head Diameter,OEM # MIU800494
Keeper	Both 121-1138	1 SQ Bead Type,OEM # AM878862
Stem Seal	Int 122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # CH10450
	Exh 122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # T110650
Guide	Int 140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # M801227
	Exh 140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # M801228
Spring	Both 160-1665	1.760 Length,OEM # M801222

4	100 C.I., (1.6L), 3TNV88, Diesel, OHV, 6 Valve, ""Yanmar""	JON-3TNV88
	L3 100 CID	BORE - 88mm/3.465""

PART	PART NO.	NOTES
Valve	Int 13413	1.496 Head Diameter,OEM # M811557
	Exh 13416	1.181 Head Diameter,OEM # MIU800494

(Cont'd) JOHN DEERE / TRACTOR**100 C.I., (1.6L), 3TNV88, Diesel, OHV, 6 Valve, ""Yanmar""**
L3 100 CID**JON-3TNV88 4**
BORE - 88mm/3.465"" (cont.)

PART		PART NO.	NOTES
Keeper	Both	121-1138	1 SQ Bead Type,OEM # AM878862
Stem Seal	Int	122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # CH10450
	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # T110650
Guide	Int	140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # M801227
	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # M801228
Spring	Both	160-1665	1.760 Length,OEM # M801222

100.5 C.I., (1.6L), 100.5, Gas, OHV, 4 Valve
V2 100.5 CID**JON100.5 5**
BORE - 101.5mm/3.996""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹ / ₁₆ O.D.,1 ¹ / ₂ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
	Exh	SB1625-1	1 ⁵ / ₈ O.D.,1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Keeper	Both	121-1000	2 RD Bead Type
Guide	Both	140-1858	0.3750 I.D.,3.344 Length,0.6898 O.D.

113 C.I., (1.9L), 113, Gas, OHV, 4 Valve
L2 113 CID**JON113 6**
BORE - 107.9mm/4.248""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3	1 ¹ / ₁₆ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth
	Exh	SB1625-1	1 ⁵ / ₈ O.D.,1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Keeper	Both	121-1000	2 RD Bead Type
Guide	Both	140-1859	0.3750 I.D.,2.797 Length,0.6898 O.D.

115 C.I., (1.9L), 115, Gas, OHV, 8 Valve
L4 115 CID**JON115 7**
BORE - 88.832mm/3.497""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-2	1 ¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	1 ⁷ / ₁₆ O.D.,1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Keeper	Both	121-1001	2 RD Bead Type
Guide	Both	140-1860	0.3437 I.D.,2.375 Length,0.6277 O.D.

122 C.I., (2.0L), 4TNE84, Diesel, OHV, 8 Valve, ""Yanmar""
L4 122 CID**JON-4TNE84 8**
BORE - 84mm/3.307""

PART		PART NO.	NOTES
Valve	Int	13415	1.378 Head Diameter,OEM # M801220
	Exh	13416	1.181 Head Diameter,OEM # MIU800494
Keeper	Both	121-1138	1 SQ Bead Type,OEM # AM878862
Stem Seal	Int	122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # CH10450
	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # T110650
Guide	Int	140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # M801227
	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # M801228
Spring	Both	160-1665	1.760 Length,OEM # M801222

JOHN DEERE / TRACTOR (Cont'd)

9 122 C.I., (2.0L), 4TNE84T (4020T), Diesel, OHV, 8 Valve, ""Yanmar TURBO""

L4 122 CID

JON-4TNE84T
BORE - 84mm/3.307""

PART		PART NO.	NOTES
Valve	Int	13415	1.378 Head Diameter,OEM # M801220
	Exh	13416	1.181 Head Diameter,OEM # T110649
Keeper	Both	121-1138	1 SQ Bead Type,OEM # AM878862
Stem Seal	Int	122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # CH10450
	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # T110650
Guide	Int	140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # M801227
	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # M801228
Spring	Both	160-1665	1.760 Length,OEM # M801222

10 122 C.I., (2.0L), 4TNNV84, Diesel, OHV, 8 Valve, ""Yanmar""

L4 122 CID

JON-4TNNV84
BORE - 84mm/3.307""

PART		PART NO.	NOTES
Valve	Int	13414	1.417 Head Diameter,OEM # MIU800446
	Exh	13416	1.181 Head Diameter,OEM # MIU800494
Keeper	Both	121-1138	1 SQ Bead Type,OEM # AM878862
Stem Seal	Int	122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # CH10450
	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # T110650
Guide	Int	140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # M801227
	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # M801228
Spring	Both	160-1665	1.760 Length,OEM # M801222

11 122 C.I., (2.0L), 4TNNV84T, Diesel, OHV, 16 Valve, ""Yanmar TURBO""

L4 122 CID

JON-4TNNV84T-16V
BORE - 84mm/3.307""

PART		PART NO.	NOTES
Valve	Int	13407	1.102 Head Diameter,OEM # MIU800391
	Exh	13408	0.965 Head Diameter,OEM # MIU800392
Keeper	Both	121-1074	1 RD Bead Type
Stem Seal	Int	122-1480	Positive Type,Viton Material,Metal Clad Style,OEM # M811850
	Exh	122-1481	Positive Type,Viton Material,Metal Clad Style,OEM # M811851
Guide	Both	140-3188	0.2365 I.D.,1.378 Length,0.3945 O.D.,OEM # M811855
Spring	Both	160-1662	1.462 Length,OEM # MIU800393

12 134 C.I., (2.2L), 4TNE88, Diesel, OHV, 8 Valve, ""Yanmar""

L4 134 CID

JON-4TNE88
BORE - 88mm/3.465""

PART		PART NO.	NOTES
Valve	Int	13415	1.378 Head Diameter,OEM # M801220
	Exh	13416	1.181 Head Diameter,OEM # MIU800494
Keeper	Both	121-1138	1 SQ Bead Type,OEM # AM878862
Stem Seal	Int	122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # CH10450
	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # T110650
Guide	Int	140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # M801227
	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # M801228
Spring	Both	160-1665	1.760 Length,OEM # M801222

13 134 C.I., (2.2L), 4TNNV88, Diesel, OHV, 8 Valve, ""Yanmar""

L4 134 CID

JON-4TNNV88
BORE - 88mm/3.465""

PART		PART NO.	NOTES
Valve	Int	13413	1.496 Head Diameter,OEM # M811557
	Exh	13416	1.181 Head Diameter,OEM # MIU800494

(Cont'd) JOHN DEERE / TRACTOR**134 C.I., (2.2L), 4TNV88, Diesel, OHV, 8 Valve, ""Yanmar""****JON-4TNV88 13**

L4 134 CID

BORE - 88mm/3.465"" (cont.)

PART		PART NO.	NOTES
Keeper	Both	121-1138	1 SQ Bead Type,OEM # AM878862
Stem Seal	Int	122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # CH10450
	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # T110650
Guide	Int	140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # M801227
	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # M801228
Spring	Both	160-1665	1.760 Length,OEM # M801222

135 C.I., (2.2L), 135, Gas, OHV, 8 Valve**JON135 14**

L3 135 CID

BORE - 98mm/3.858""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-4	1 ¹ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,OEM # 70843
	Exh	SB1562-4	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ¹ / ₄ Depth,+10 O/S Available,OEM # 70843
Valve	Int	01306	1.772 Head Diameter,OEM # T23477T, T25466
	Exh	01305S	1.457 Head Diameter,Stellite Face,OEM # T25647
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1015	Positive Type,Tef/Rub Material,1-Ring Style,Opt., Machine Guide To .562 O.D.
		122-1023	O-Ring Type,Poly Material,O-Ring Style,OEM # R87627
Guide	Both	140-7248	0.3750 I.D.,2.750 Length,0.5640 O.D.,Optional, Recommended
		140-9115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1205	2.173 Length,OEM # R26125

147 C.I., (2.4L), 4024, Diesel, OHV, 8 Valve, ""PowerTech TURBO""**4024_8V 15**

L4 147 CID

BORE - 86.0mm/3.386""

PART		PART NO.	NOTES
Valve	Int	13373	1.457 Head Diameter,OEM # R502454
	Exh	13374	1.339 Head Diameter,OEM # R502455
Stem Seal	Both	122-1470	Positive Type,Viton Material,Top Hat Style,OEM # RE520980, RE532712
Spring	Both	160-1649	1.810 Length,OEM # R502368, R522728

145 C.I., (2.4L), 145, Gas, OHV, 8 Valve**JON145 16**

L4 145 CID

BORE - 91.4mm/3.598""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3N	1 ⁷ / ₁₆ O.D.,1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth
Keeper	Both	121-1001	2 RD Bead Type,Exc. Power Unit
Guide	Both	140-1896	0.3440 I.D.,2.859 Length,0.6277 O.D.,From S/N 10720
		140-1899	0.3440 I.D.,2.969 Length,0.6277 O.D.,To S/N 10719

145 C.I., (2.4L), 145, Diesel/LPG, OHV, 8 Valve**JON45D_LP 17**

L4 145 CID

BORE - 91.4mm/3.598""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3N	1 ⁷ / ₁₆ O.D.,1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth

JOHN DEERE / TRACTOR (Cont'd)

18 152 C.I., (2.5L), 152, Diesel, OHV, 6 Valve

JON152

L3 152 CID

BORE - 98.044mm/3.860"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-6	1 ⁷ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth
	Exh	SB1687-5N	1 ¹¹ / ₁₆ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int	01234	1.772 Head Diameter, OEM # R79623, Late Style W/ Seal Groove Replaces Early Style W/O Seal Groove
	Exh	01233	1.575 Head Diameter, OEM # R79624, Late Style W/ Seal Groove, Replaces Early Style W/O Seal Groove OEM# R73063, W/ 45 degree Seat Face
Keeper	Both	121-1007	1 SQ Bead Type, ³ / ₈ Stem Dia.
Guide	Both	140-7248	0.3750 I.D., 2.750 Length, 0.5640 O.D., Optional, Recommended
		140-9115	0.3750 I.D., 2.750 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	160-1205	2.173 Length, OEM # R26125

19 164 C.I., (2.7L), 164, Diesel, OHV, 6 Valve

JON164D

L3 164 CID

BORE - 102.108mm/4.020"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1858E-1N	1.858 O.D., 1.608 I.D., 0.2090 Depth, OEM # R73064, Exc. 300 Series
	Exh	SB1638E-1N	1.638 O.D., 1.412 I.D., 0.2180 Depth, OEM # R51734, Exc. 300 Series
Valve	Int	01234	1.772 Head Diameter, OEM # R79623, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove, Exc. 300 Series RCP
	Exh	01233	1.575 Head Diameter, OEM # R79624, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove OEM # R73063, W/ 45 Degree Seat Face, Exc. 300 Series RCP
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-7248	0.3750 I.D., 2.750 Length, 0.5640 O.D., ³ / ₈ Stem Only
		140-9115	0.3750 I.D., 2.750 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	160-1205	2.173 Length, OEM # R26125, Exc. 300 Series

20 164 C.I., (2.7L), 164, Gas, OHV, 6 Valve

JON164G

L3 164 CID

BORE - 102.108mm/4.020"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-4	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, OEM # 70843
	Exh	SB1562-4	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ¹ / ₄ Depth, +10 O/S Available, OEM # 70843
Valve	Int	01306	1.772 Head Diameter
	Exh	01305S	1.457 Head Diameter, Stellite Face
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1015	Positive Type, Tef/Rub Material, 1-Ring Style, Opt., Machine Guide To .562 O.D.
		122-1023	O-Ring Type, Poly Material, O-Ring Style, OEM # R87627
Guide	Both	140-7248	0.3750 I.D., 2.750 Length, 0.5640 O.D.
		140-9115	0.3750 I.D., 2.750 Length, 0.5020 O.D., Spiral I.D. Conversion Guide

21 165 C.I., (2.7L), 165, Gas, OHV, 8 Valve

JON165

L4 165 CID

BORE - 98.4mm/3.874"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3N	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth

(Cont'd) JOHN DEERE / TRACTOR**165 C.I., (2.7L), 165, Diesel, OHV, 8 Valve**
L4 165 CID**JON165D 22**
BORE - 98.4mm/3.874"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3N	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth
Keeper	Both	121-1001	2 RD Bead Type
Guide	Both	140-1860	0.3437 I.D., 2.375 Length, 0.6277 O.D.

179 C.I., (2.9L), 179D/3179D, Diesel, OHV, 6 Valve
L3 179 CID**3179D 23**
BORE - 106.426mm/4.190"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1858E-1N	1.858 O.D., 1.608 I.D., 0.2090 Depth, OEM # R73064
	Exh	SB1638E-1N	1.638 O.D., 1.412 I.D., 0.2180 Depth, OEM # R51734
Valve	Int	01234	1.772 Head Diameter, OEM # R79623, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove
	Exh	01233	1.575 Head Diameter, OEM # R79624, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove OEM # R73063
Keeper	Both	121-1007	1 SQ Bead Type, ³ / ₈ Stem Dia.
Guide	Both	140-7248	0.3750 I.D., 2.750 Length, 0.5640 O.D.
		140-9115	0.3750 I.D., 2.750 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	160-1205	2.173 Length, OEM # R26125

179 C.I., (2.9L), 179T/3179T, Diesel, OHV, 6 Valve, ""TURBO""
L3 179 CID**3179T 24**
BORE - 106.426mm/4.190"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1858E-1N	1.858 O.D., 1.608 I.D., 0.2090 Depth, OEM # R73064
	Exh	SB1638E-1N	1.638 O.D., 1.412 I.D., 0.2180 Depth, OEM # R51734
Valve	Int	01234	1.772 Head Diameter, OEM # R79623, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove
	Exh	01233	1.575 Head Diameter, OEM # R79624, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove OEM # R73063
Keeper	Both	121-1007	1 SQ Bead Type, ³ / ₈ Stem Dia.
Guide	Both	140-7248	0.3750 I.D., 2.750 Length, 0.5640 O.D.
Spring	Both	160-1205	2.173 Length, OEM # R26125

179 C.I., (2.9L), 3029D, Diesel, OHV, 6 Valve, ""PowerTech""
L3 179 CID**3029D 25**
BORE - 106.5mm/4.193"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1856E-1	1.857 O.D., 1.550T I.D., 0.2570 Depth, +10 O/S Available, OEM # R98063, R106831, 30 Deg. Seat
	Exh	SB1695E-1	1.695 O.D., 1.348T I.D., 0.2430 Depth, +10 O/S Available, OEM # R85687, R106829, 30 Degree Seat
Valve	Int	01589	1.835 Head Diameter, OEM # R98062
	Exh	01588	1.673 Head Diameter, OEM # R90692
Keeper	Both	121-1078	1 RD Bead Type, OEM # R91889
Stem Seal	Both	122-1069	Positive Type, Viton Material, Ring & Band Style, OEM # RE31617
Guide	Int	140-8674	0.3120 I.D., 2.209 Length, 0.5020 O.D.
	Exh	140-8673	0.3120 I.D., 2.390 Length, 0.5020 O.D.
Spring	Both	160-1205	2.173 Length, OEM # R26125
Rotator	Both	161-1042	OEM # RE60005
Injector Tubes and Components		240-1040RB	Nitrile Material, O-Ring, Bottom; Light Green

JOHN DEERE / TRACTOR (Cont'd)

25 179 C.I., (2.9L), 3029D, Diesel, OHV, 6 Valve, ""PowerTech"" 3029D
 (cont.) L3 179 CID BORE - 106.5mm/4.193""

PART	PART NO.	NOTES
Injector Tubes and Components	240-1054	Stainless Steel Material,injector Tube,NOTE: Services Injector Sleeve In OEM Kit # RE527456: Requires (1) 240-1040RB O-Ring Sold Separately

26 179 C.I., (2.9L), 3029T/H, Diesel, OHV, 6 Valve, ""PowerTech TURBO"" 3029T
 L3 179 CID BORE - 106.5mm/4.193""

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1856E-1 Exh SB1695E-1	1.857 O.D.,1.550T I.D.,0.2570 Depth,+10 O/S Available,OEM # R98063, R106831, 30 Deg. Seat 1.695 O.D.,1.348T I.D.,0.2430 Depth,+10 O/S Available,OEM # R85687, R106829, 30 Degree Seat
Valve	Int 01589 Exh 01588	1.835 Head Diameter,OEM # R98062 1.673 Head Diameter,OEM # R90692
Keeper	Both 121-1078	1 RD Bead Type,OEM # R91889
Stem Seal	Both 122-1069	Positive Type,Viton Material,Ring & Band Style,OEM # RE31617
Guide	Int 140-8674 Exh 140-8673	0.3120 I.D.,2.209 Length,0.5020 O.D. 0.3120 I.D.,2.390 Length,0.5020 O.D.
Spring	Both 160-1205	2.173 Length,OEM # R26125
Rotator	Both 161-1042	OEM # RE60005
Injector Tubes and Components	240-1040RB 240-1054	Nitrile Material,O-Ring, Bottom; Light Green Stainless Steel Material,injector Tube,NOTE: Services Injector Sleeve In OEM Kit # RE527456: Requires (1) 240-1040RB O-Ring Sold Separately

27 180 C.I., (3.0L), 180, Gas, OHV, 8 Valve JON180
 L4 180 CID BORE - 98mm/3.858""

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1812-4 Exh SB1562-4	1 ¹³ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1 ¹ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ¹ / ₄ Depth,+10 O/S Available
Valve	Int 01306 Exh 01305S	1.772 Head Diameter,OEM # T23477T, T25466 1.457 Head Diameter,Stellite Face,OEM # T25467
Keeper	Both 121-1007	1 SQ Bead Type
Stem Seal	Both 122-1015 122-1023	Positive Type,Tef/Rub Material,1-Ring Style,Opt., Machine Guide To .562 O.D. O-Ring Type,Poly Material,O-Ring Style,OEM # R87627
Guide	Both 140-7248 140-9115	0.3750 I.D.,2.750 Length,0.5640 O.D.,Optional, Recommended 0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both 160-1205	2.173 Length,OEM # R26125

28 186 C.I., (3.0L), 5030, Diesel, OHV, 10 Valve, ""PowerTech TURBO"" 5030_10V
 L5 186 CID BORE - 86.0mm/3.386""

PART	PART NO.	NOTES
Valve	Int 13373 Exh 13374	1.457 Head Diameter,OEM # R502454 1.339 Head Diameter,OEM # R502455
Stem Seal	Both 122-1470	Positive Type,Viton Material,Top Hat Style,OEM # RE520980, RE532712
Spring	Both 160-1649	1.810 Length,OEM # R502368, R522728

29 190 C.I., (3.1L), 190B, Diesel/Gas, OHV, 4 Valve JON190B
 H2 190 CID BORE - 119.05mm/4.687""

PART	PART NO.	NOTES
Guide	Both 140-1600	0.4390 I.D.,3.875 Length,0.8780 O.D.

(Cont'd) JOHN DEERE / TRACTOR**201 C.I., (3.3L), 201, GAS, OHV, 8 Valve**
L4 201 CIDJON201 **30**
BORE - 101.6mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.688 Valve Head Dia. 1 $\frac{9}{16}$ O.D., 1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth
	Exh	SB1562-1N	
Valve	Int	00659	1.688 Head Diameter, OEM # R26109R
	Exh	00658	1.500 Head Diameter, OEM # R26108R
Keeper	Both	121-1000	2 RD Bead Type
Stem Seal	Both	122-1015	Positive Type, Tef/Rub Material, 1-Ring Style, Opt., Machine Guide To .562 O.D.
		122-1023	O-Ring Type, Poly Material, O-Ring Style, OEM # R87627
Guide	Both	140-1897	0.3745 I.D., 2.938 Length, 0.6255 O.D., OEM # R28653R

202 C.I., (3.3L), 202, Diesel, OHV, 8 Valve
L4 202 CIDJON202 **31**
BORE - 98mm/3.858"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-4	1 $\frac{13}{16}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1 $\frac{9}{16}$ O.D., 1 $\frac{5}{16}$ I.D., $\frac{1}{4}$ Depth, +10 O/S Available
	Exh	SB1562-4	
Valve	Int	01306	1.772 Head Diameter, OEM # T23477T, T25466
	Exh	01305S	1.457 Head Diameter, Stellite Face, OEM # T25467
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1015	Positive Type, Tef/Rub Material, 1-Ring Style, Opt., Machine Guide To .562 O.D.
		122-1023	O-Ring Type, Poly Material, O-Ring Style, OEM # R87627
Guide	Both	140-7248	0.3750 I.D., 2.750 Length, 0.5640 O.D., Optional, Recommended
		140-9115	0.3750 I.D., 2.750 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	160-1205	2.173 Length, OEM # R26125

217 C.I., (3.6L), 217, Gas, OHV, 12 Valve
L6 217 CIDJON217 **32**
BORE - 91.4mm/3.598"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-2	1 $\frac{11}{16}$ O.D., 1 $\frac{7}{16}$ I.D., $\frac{7}{32}$ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth
	Exh	SB1437-3N	

217 C.I., (3.6L), 217, LPG, OHV, 12 Valve
L6 217 CIDJON217LP **33**
BORE - 91.4mm/3.598"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-2	1 $\frac{11}{16}$ O.D., 1 $\frac{7}{16}$ I.D., $\frac{7}{32}$ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth
	Exh	SB1437-3N	

219 C.I., (3.6L), 219, Diesel, OHV, 8 Valve
L4 219 CIDJON219 **34**
BORE - 102.108mm/4.020"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1858E-1N	1.858 O.D., 1.608 I.D., 0.2090 Depth, OEM # R73064, Exc. 300 Series 1.638 O.D., 1.412 I.D., 0.2180 Depth, OEM # R51734, Exc. 300 Series
	Exh	SB1638E-1N	
Valve	Int	01234	1.772 Head Diameter, OEM # R79623, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove, Exc. 300 Series RCP
	Exh	01233	1.575 Head Diameter, OEM # R79624, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove OEM # R73063, W/ 45 Degree Seat Face
Keeper	Both	121-1007	1 SQ Bead Type

JOHN DEERE / TRACTOR (Cont'd)

34 219 C.I., (3.6L), 219, Diesel, OHV, 8 Valve JON219
 (cont.) L4 219 CID BORE - 102.108mm/4.020"

PART		PART NO.	NOTES
Guide	Both	140-7248	0.3750 I.D.,2.750 Length,0.5640 O.D., $\frac{3}{8}$ Stem Only
		140-9115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1205	2.173 Length,OEM # R26125, Exc. 300 Series RCP

35 227 C.I., (3.7L), 227, Gas/LPG, OHV, 8 Valve JON227
 L4 227 CID BORE - 107.95mm/4.250"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 $\frac{1}{4}$ O.D.,1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.688 Valve Head Dia.
	Exh	SB1562-1N	1 $\frac{1}{16}$ O.D.,1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth
Valve	Int	00659	1.688 Head Diameter,OEM # R26109R
	Exh	00658	1.500 Head Diameter,OEM # R26108R
Keeper	Both	121-1000	2 RD Bead Type
Stem Seal	Both	122-1015	Positive Type,Tef/Rub Material,1-Ring Style,Opt., Machine Guide To .562 O.D.
		122-1023	O-Ring Type,Poly Material,O-Ring Style,OEM # R87627
Guide	Both	140-1897	0.3745 I.D.,2.938 Length,0.6255 O.D.,OEM # R28653R

36 239 C.I., (3.9L), 239D/4239D, Diesel, OHV, 8 Valve 4239D
 L4 239 CID BORE - 106.426mm/4.190"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1858E-1N	1.858 O.D.,1.608 I.D.,0.2090 Depth,OEM # R73064
	Exh	SB1638E-1N	1.638 O.D.,1.412 I.D.,0.2180 Depth,OEM # R51734
Valve	Int	01234	1.772 Head Diameter,OEM # R79623, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove
	Exh	01233	1.575 Head Diameter,OEM # R79624, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove OEM # R73063
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1023	O-Ring Type,Poly Material,O-Ring Style,OEM # R87627
Guide	Both	140-7248	0.3750 I.D.,2.750 Length,0.5640 O.D.
		140-9115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1205	2.173 Length,OEM # R26125

37 239 C.I., (3.9L), 239T/4239T, Diesel, OHV, 8 Valve, ""TURBO"" 4239T
 L4 239 CID BORE - 106.426mm/4.190"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1858E-1N	1.858 O.D.,1.608 I.D.,0.2090 Depth,OEM # R73064
	Exh	SB1638E-1N	1.638 O.D.,1.412 I.D.,0.2180 Depth,OEM # R51734
Valve	Int	01471S	1.821 Head Diameter,Stellite Face,OEM #'s R51735, R72611, R83071, R89219, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove
	Exh	01233	1.575 Head Diameter,OEM # R79624, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove OEM # R73063
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-7248	0.3750 I.D.,2.750 Length,0.5640 O.D.
Spring	Both	160-1205	2.173 Length,OEM # R26125

(Cont'd) **JOHN DEERE / TRACTOR**

239 C.I., (3.9L), 4039, Diesel, OHV, 8 Valve, ""PowerTech""

300_39 38

L4 239 CID

BORE - 106.5mm/4.193""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1856E-1	1.857 O.D.,1.550T I.D.,0.2570 Depth,+10 O/S Available,30 Degree Seat Angle, OEM # R98063
	Exh	SB1695E-1	1.695 O.D.,1.348T I.D.,0.2430 Depth,+10 O/S Available,30 Degree Seat, OEM # R85687
Valve	Int	01589	1.835 Head Diameter,OEM # R98062
	Exh	01588	1.673 Head Diameter,OEM # R90692
Keeper	Both	121-1078	1 RD Bead Type
Stem Seal	Both	122-1069	Positive Type,Viton Material,Ring & Band Style,OEM # RE31617
Guide	Int	140-8674	0.3120 I.D.,2.209 Length,0.5020 O.D.
	Exh	140-8673	0.3120 I.D.,2.390 Length,0.5020 O.D.
Spring	Both	160-1205	2.173 Length,OEM # R26125
Rotator	Both	161-1042	OEM # RE60005

239 C.I., (3.9L), 276T/4276T, Diesel, OHV, 8 Valve, ""TURBO""

4276T 39

L4 239 CID

BORE - 106.426mm/4.190""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1858E-1N	1.858 O.D.,1.608 I.D.,0.2090 Depth,OEM # R73064
	Exh	SB1638E-1N	1.638 O.D.,1.412 I.D.,0.2180 Depth,OEM # R51734
Valve	Int	01234	1.772 Head Diameter,OEM # R79623, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove
		01471S	1.821 Head Diameter,Stellite Face,OEM #'s R51735, R72611, R83071, R89219, Late Style W/ Seal Groove, Replaces Early Style W/O Seal Groove
	Exh	01233	1.575 Head Diameter,OEM # R79624, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove OEM # R73063
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-7248	0.3750 I.D.,2.750 Length,0.5640 O.D.
		140-9115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1205	2.173 Length,OEM # R26125R
Rotator	Exh	161-1040	OEM # RE11410

241 C.I., (3.9L), 4241, Gas/LPG, OHV, 8 Valve

JON4241 40

L4 241 CID

BORE - 107.95mm/4.25""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 $\frac{3}{4}$ O.D.,1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.688 Valve Head Dia.
	Exh	SB1562-1N	1 $\frac{9}{16}$ O.D.,1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth
Valve	Int	01402	1.688 Head Diameter,2 Groove,OEM # R41414
	Exh	01376S	1.500 Head Diameter,Stellite Face, 1 Groove,OEM # R41413
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-1898	0.3750 I.D.,3.313 Length,0.6255 O.D.,OEM # R28654R; For Castings W/ Factory Installed Guides; 140-1898+2 May Be Used W/ $\frac{5}{8}$ Reamer
Spring	Both	160-1205	2.173 Length,R26125

254 C.I., (4.2L), 254, Diesel, OHV, 8 Valve

JON254D 41

L4 254 CID

BORE - 104.7mm/4.122""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-4	1 $\frac{3}{16}$ O.D.,1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1625-1N	1 $\frac{5}{8}$ O.D.,1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth

JOHN DEERE / TRACTOR (Cont'd)

41 254 C.I., (4.2L), 254, Diesel, OHV, 8 Valve JON254D
 (cont.) L4 254 CID BORE - 104.7mm/4.122"

PART		PART NO.	NOTES
Keeper	Both	121-1000	2 RD Bead Type
Guide	Both	140-1898	0.3750 I.D.,3.313 Length,0.6255 O.D.,OEM # R28654R; For Castings W/ Factory Installed Guides; 140-1898+2 May Be Used W/ 5/8 Reamer
Spring	Both	160-1205	2.173 Length,OEM # R26125

42 270 C.I., (4.4L), 270/4270, Diesel, OHV, 8 Valve JON4270
 L4 270 CID BORE - 107.95mm/4.250"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1937-1	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D.,1/4 Depth
	Exh	SB1750-1N	1 ³ / ₄ O.D.,1 ¹ / ₂ I.D.,1/4 Depth
Valve	Int	01289	1.902 Head Diameter,2 Groove,OEM # R32034 & R44174, 6.245 Overall Length
		01336S	1.902 Head Diameter,Stellite Face,OEM # R41410 & R43883, 6.148 Overall Length, 1 Groove & 1 Seal Groove
	Exh	01288	1.715 Head Diameter,2 Groove,OEM # R32035 & R44175, 6.227 Overall Length
		01375	1.715 Head Diameter,Recommended OEM Nickel Base Inconel Material,OEM # R41411 & R43679, 6.133 Overall Length, Single Groove
		21375	1.715 Head Diameter,Alternative Austenitic Material,6.133 Overall Length, Single Groove
Keeper	Both	121-1000	2 RD Bead Type,W/ .3717 Stem Dia.
		121-1007	1 SQ Bead Type,Use W/ 01336S & 01375, 3/8 Stem Dia.
Guide	Both	140-1898	0.3750 I.D.,3.313 Length,0.6255 O.D.,OEM # R28654R, For Castings W/ Factory Installed Guides; 140-1898+2 May Be Used W/ 5/8 Reamer
Spring	Both	160-1205	2.173 Length,OEM # R26125
Rotator	Exh	161-1040	OEM # RE11410, Use W/ 1 Groove Valve

43 275 C.I., (4.5L), 4045, Diesel, OHV, 16 Valve, ""Tier 2-3 PowerTech Plus TURBO"" 4045D_16V-T2-3
 L4 275 CID BORE - 106.0mm/4.173"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1476E-2	1.476 O.D.,1.200T I.D.,0.2445 Depth,OEM # R504969, R515034, RE518082
	Exh	SB1437E-2	1.437 O.D.,1.125T I.D.,0.2365 Depth,OEM # R504968, R515033, RE518083
Valve	Int	13246	1.457 Head Diameter,OEM # R502369, RE518080, R518806, R536135; NOTE: With Letter ""O"" In Head; Services Valve Included in Kit # RE531221 & RE557890
	Exh	13417	1.417 Head Diameter,Inconel,OEM # R502370, RE518081, R527845, R536136, NOTE: With Letter ""V"" In Head, Services Valve In Kit # RE557891
Stem Seal	Both	122-1432	Positive Type,Viton Material,Metal Clad Style,OEM # RE526519; NOTE: For Use With Integral Guide Castings
		122-1485	Positive Type,Viton Material,Ring & Band Style,OEM # RE519115; NOTE: Green, For Use With integral Guide Castings
Guide	Both	140-3141	0.2777 I.D.,2.347 Length,0.5020 O.D.,NOTE: For Use With Integral Guide Castings
Spring	Both	160-1602	1.908 Length,Conical,OEM # R518872; NOTE: Part Of Kit # RE531223, With 0.135 Wire Dia., Services Spring With White Stripe
		160-1667	1.975 Length,Conical,OEM # R503906, RE516486; NOTE: With 0.120 Wire Dia., Services Spring With Light Green Stripe
Injector Tubes and Components		240-1040	Stainless Steel Material,Injector Tube,OEM # RE517435, RE543935

(Cont'd) JOHN DEERE / TRACTOR**275 C.I., (4.5L), 4045, Diesel, OHV, 16 Valve, ""Tier 2-3 PowerTech Plus TURBO""****43**

4045D_16V-T2-3 (cont.)

L4 275 CID

BORE - 106.0mm/4.173""

PART	PART NO.	NOTES
Injector Tubes and Components	240-1040RB	Nitrile Material,O-Ring, Bottom; Light Green,OEM # RE530609
	240-1040RT	Viton Material,O-Ring, Top; Dark Green,OEM # RE528349

275 C.I., (4.5L), 4045, Diesel, OHV, 16 Valve, ""Tier 4 PowerTech Plus TURBO""**44**

4045D_16V-T4

L4 275 CID

BORE - 106.0mm/4.173""

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1476E-2	1.476 O.D.,1.200T I.D.,0.2445 Depth,OEM # R504969, R515034, RE518082
	Exh SB1437E-2	1.437 O.D.,1.125T I.D.,0.2365 Depth,OEM # R504968, R515033, RE518083
Valve	Int 13436	1.437 Head Diameter,OEM # R534238 ; NOTE: With Letter ""T"" In Head
	13438	1.437 Head Diameter,OEM # R527333, R532100; NOTE: With Letter ""I"" In Head
	Exh 13437	1.398 Head Diameter,Inconel,OEM # R534237 ; NOTE: With Letter ""N"" In Head
	13439	1.398 Head Diameter,Inconel,OEM # R527334, R532049; NOTE: With Letter ""E"" In Head
Stem Seal	Int 122-1488	Positive Type,Viton Material,Top Hat Style,OEM # RE536919; NOTE: Light Green; For Castings With Removable Guides
	Exh 122-1489	Positive Type,Viton Material,Top Hat Style,OEM # RE541360; NOTE: Dark Gray; For Castings With Removable Guides
Guide	Both 140-3196	0.2775 I.D.,2.345 Length,0.4725 O.D.,OEM # R529030, R537044; NOTE: W/ Seal Groove, Use With Top Hat Seals
	140-3197	0.2775 I.D.,2.345 Length,0.4725 O.D.,OEM # R545673; NOTE: W/O Seal Groove, Use With Top Hat Seals
Spring	Both 160-1674	1.998 Length,Conical,OEM # R528300; NOTE: With 0.135 Wire Dia., Services Spring W/ Pink Stripes
	160-1675	1.988 Length,Conical,OEM # R534236; NOTE: With 0.142 Wire Dia., Services Spring W/ No Stripe
Injector Tubes and Components	240-1040	Stainless Steel Material,Injector Tube,OEM # RE517435, RE543935
	240-1040RB	Nitrile Material,O-Ring, Bottom; Light Green,OEM # RE530609
	240-1040RT	Viton Material,O-Ring, Top; Dark Green,OEM # RE528349

276 C.I., (4.5L), 276D/4276D, Diesel, OHV, 8 Valve**45**

4276D

L4 276 CID

BORE - 106.426mm/4.190""

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1858E-1N	1.858 O.D.,1.608 I.D.,0.2090 Depth,OEM # R73064
	Exh SB1638E-1N	1.638 O.D.,1.412 I.D.,0.2180 Depth,OEM # R51734
Valve	Int 01234	1.772 Head Diameter,OEM # R79623, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove
	01471S	1.821 Head Diameter,Stellite Face,OEM #s R51735, R72611, R83071, R89219, Late Style W/ Seal Groove, Replaces Early Style W/O Seal Groove
	Exh 01233	1.575 Head Diameter,OEM # R79624, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove OEM # R73063
Keeper	Both 121-1007	1 SQ Bead Type
Guide	Both 140-7248	0.3750 I.D.,2.750 Length,0.5640 O.D.
	140-9115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both 160-1205	2.173 Length,OEM # R26125

JOHN DEERE / TRACTOR (Cont'd)

45 276 C.I., (4.5L), 276D/4276D, Diesel, OHV, 8 Valve 4276D
 (cont.) L4 276 CID BORE - 106.426mm/4.190"

PART		PART NO.	NOTES
Rotator	Exh	161-1040	OEM # RE11410

46 276 C.I., (4.5L), 4045, Diesel, OHV, 8 Valve, ""PowerTech"" 4045D
 L4 276 CID BORE - 106.5mm/4.193"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1856E-1	1.857 O.D., 1.550T I.D., 0.2570 Depth, +10 O/S Available, OEM # R98063, 30 Degree Seat
	Exh	SB1695E-1	1.695 O.D., 1.348T I.D., 0.2430 Depth, +10 O/S Available, OEM # R85687, 30 Degree Seat
Valve	Int	01589	1.835 Head Diameter, OEM # R98062
	Exh	01588	1.673 Head Diameter, OEM # R90692
Keeper	Both	121-1078	1 RD Bead Type, OEM # R91889
Stem Seal	Both	122-1069	Positive Type, Viton Material, Ring & Band Style, OEM # RE31617
Guide	Int	140-8674	0.3120 I.D., 2.209 Length, 0.5020 O.D.
	Exh	140-8673	0.3120 I.D., 2.390 Length, 0.5020 O.D.
Spring	Both	160-1205	2.173 Length, OEM # R26125
Rotator	Both	161-1042	OEM # RE60005
Injector Tubes and Components		240-1040RB	Nitrile Material, O-Ring, Bottom; Light Green
		240-1054	Stainless Steel Material, injector Tube, NOTE: Services Injector Sleeve In OEM Kit # RE527456: Requires (1) 240-1040RB O-Ring Sold Separately

47 276 C.I., (4.5L), 4045T/H, Diesel, OHV, 8 Valve, ""PowerTech TURBO"" 4045T/H
 L4 276 CID BORE - 106.5mm/4.193"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1856E-1	1.857 O.D., 1.550T I.D., 0.2570 Depth, +10 O/S Available, OEM # R98063, 30 Degree Seat
	Exh	SB1695E-1	1.695 O.D., 1.348T I.D., 0.2430 Depth, +10 O/S Available, OEM # R85687, 30 Degree Seat
Valve	Int	01589	1.835 Head Diameter, OEM # R98062
	Exh	01588	1.673 Head Diameter, OEM # R90692
Keeper	Both	121-1078	1 RD Bead Type, OEM # R91889
Stem Seal	Both	122-1069	Positive Type, Viton Material, Ring & Band Style, OEM # RE31617
Guide	Int	140-8674	0.3120 I.D., 2.209 Length, 0.5020 O.D.
	Exh	140-8673	0.3120 I.D., 2.390 Length, 0.5020 O.D.
Spring	Both	160-1205	2.173 Length, OEM # R26125
Rotator	Both	161-1042	OEM # RE60005
Injector Tubes and Components		240-1040RB	Nitrile Material, O-Ring, Bottom; Light Green
		240-1054	Stainless Steel Material, injector Tube, NOTE: Services Injector Sleeve In OEM Kit # RE527456: Requires (1) 240-1040RB O-Ring Sold Separately

48 301 C.I., (4.9L), 301, Gas, OHV, 12 Valve JON301
 L6 301 CID BORE - 101.6mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7 ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.688 Valve Head Dia.
	Exh	SB1562-1N	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7 ⁷ / ₃₂ Depth
Valve	Int	00659	1.688 Head Diameter, OEM # R26109R
	Exh	00658	1.500 Head Diameter, OEM # R26108R

(Cont'd) JOHN DEERE / TRACTOR**301 C.I., (4.9L), 301, Gas, OHV, 12 Valve**
L6 301 CIDJON301 **48**
BORE - 101.6mm/4.00"

PART		PART NO.	NOTES
Keeper	Both	121-1000	2 RD Bead Type
Stem Seal	Both	122-1015	Positive Type,Tef/Rub Material,1-Ring Style,Opt., Machine Guide To .562 O.D.
		122-1023	O-Ring Type,Poly Material,O-Ring Style,OEM # R87627
Guide	Both	140-1897	0.3745 I.D.,2.938 Length,0.6255 O.D.,OEM # R28653R

303 C.I., (5.0L), 303, Diesel, OHV, 12 Valve
L6 303 CIDJON303 **49**
BORE - 98.044mm/3.860"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-6	1 ⁷ / ₈ O.D.,1 ⁵ / ₈ I.D., ⁷ / ₃₂ Depth
	Exh	SB1687-5N	1 ¹¹ / ₁₆ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int	01234	1.772 Head Diameter,OEM # R79623, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove
	Exh	01233	1.575 Head Diameter,OEM # R79624, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove OEM # R73063, W/ 45 Degree Seat Face
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-1857	0.5015 I.D.,3.875 Length,0.7525 O.D.,OEM # A5707R, Fits W/ 5.50" Bore Only
		140-7248	0.3750 I.D.,2.750 Length,0.5640 O.D.,Optional, Recommended
		140-9115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1205	2.173 Length,OEM # R26125

321 C.I., (5.3L), 321, Gas, OHV, 4 Valve
L2 321 CIDJON321 **50**
BORE - 139.7mm/5.50"

PART		PART NO.	NOTES
Guide	Both	140-1644	0.5010 I.D.,4.750 Length,0.8785 O.D.

329 C.I., (5.4L), 329, Diesel, OHV, 12 Valve
L6 329 CIDJON329 **51**
BORE - 102.108mm/4.020"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1858E-1N	1.858 O.D.,1.608 I.D.,0.2090 Depth,OEM # R73064
	Exh	SB1638E-1N	1.638 O.D.,1.412 I.D.,0.2180 Depth,OEM # R51734, Exc. 300 Series
Valve	Int	01234	1.772 Head Diameter,OEM # R79623, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove, W/ 45 Degree Seat Face, Exc. 300 Series RCP
	Exh	01233	1.575 Head Diameter,OEM # R79624, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove OEM # R73063, W/ 45 Degree Seat Face
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-7248	0.3750 I.D.,2.750 Length,0.5640 O.D.
		140-9115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1205	2.173 Length,OEM # R26125, Exc. 300 Series

340 C.I., (5.6L), 340, Gas/LPG, OHV, 12 Valve
L6 340 CIDJON340 **52**
BORE - 107.95mm/4.250"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 ³ / ₄ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.688 Valve Head Dia.
	Exh	SB1562-1N	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth
Valve	Int	00659	1.688 Head Diameter,OEM # R26109R
	Exh	00658	1.500 Head Diameter,OEM # R26108R

JOHN DEERE / TRACTOR (Cont'd)

52 340 C.I., (5.6L), 340, Gas/LPG, OHV, 12 Valve
(cont.) L6 340 CID

JON340

BORE - 107.95mm/4.250"

PART		PART NO.	NOTES
Keeper	Both	121-1000	2 RD Bead Type
Stem Seal	Both	122-1015	Positive Type,Tef/Rub Material,1-Ring Style,Opt., Machine Guide To .562 O.D.
		122-1023	O-Ring Type,Poly Material,O-Ring Style,OEM # R87627
Guide	Both	140-1897	0.3745 I.D.,2.938 Length,0.6255 O.D.,OEM # R28653R

53 341 C.I., (5.6L), 341, Gas/LPG, OHV, 12 Valve
L6 341 CID

JON341

BORE - 107.95mm/4.250"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 $\frac{3}{4}$ O.D.,1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.688 Valve Head Dia.
	Exh	SB1562-1N	1 $\frac{1}{16}$ O.D.,1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth
Valve	Int	00659	1.688 Head Diameter,OEM # R26109R
	Exh	00658	1.500 Head Diameter,OEM # R26108R
Keeper	Both	121-1000	2 RD Bead Type
Stem Seal	Both	122-1015	Positive Type,Tef/Rub Material,1-Ring Style,Opt., Machine Guide To .562 O.D.
		122-1023	O-Ring Type,Poly Material,O-Ring Style,OEM # R87627
Guide	Both	140-1897	0.3745 I.D.,2.938 Length,0.6255 O.D.,OEM # R28653R

54 359 C.I., (5.9L), 6059, Diesel, OHV, 12 Valve, ""PowerTech TURBO""
L6 359 CID

600_59

BORE - 106.5mm/4.193"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1856E-1	1.857 O.D.,1.550T I.D.,0.2570 Depth,+10 O/S Available,30 Deg. Seat Angle, OEM # R98063
	Exh	SB1695E-1	1.695 O.D.,1.348T I.D.,0.2430 Depth,+10 O/S Available,30 Degree Seat, OEM # R85687
Valve	Int	01589	1.835 Head Diameter,OEM # R98062
	Exh	01588	1.673 Head Diameter,OEM # R90692
Keeper	Both	121-1078	1 RD Bead Type
Stem Seal	Both	122-1069	Positive Type,Viton Material, Ring & Band Style,OEM # RE31617
Guide	Int	140-8674	0.3120 I.D.,2.209 Length,0.5020 O.D.
	Exh	140-8673	0.3120 I.D.,2.390 Length,0.5020 O.D.
Spring	Both	160-1205	2.173 Length,OEM # R26125
Rotator	Both	161-1042	OEM # RE60005

55 359 C.I., (5.9L), 359D/6359D, Diesel, OHV, 12 Valve
L6 359 CID

6359D

BORE - 106.426mm/4.190"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1858E-1N	1.858 O.D.,1.608 I.D.,0.2090 Depth,OEM # R73064
	Exh	SB1638E-1N	1.638 O.D.,1.412 I.D.,0.2180 Depth,OEM # R51734
Valve	Int	01234	1.772 Head Diameter,OEM # R79623, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove
	Exh	01233	1.575 Head Diameter,OEM # R79624, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove OEM # R73063
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-7248	0.3750 I.D.,2.750 Length,0.5640 O.D.
		140-9115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1205	2.173 Length,OEM # R26125
Rotator	Exh	161-1040	OEM # RE11410

(Cont'd) JOHN DEERE / TRACTOR**359 C.I., (5.9L), 359T/6359T, Diesel, OHV, 12 Valve, ""TURBO""****6359T 56**

L6 359 CID

BORE - 106.426mm/4.190""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1858E-1N	1.858 O.D.,1.608 I.D.,0.2090 Depth,OEM # R73064
	Exh	SB1638E-1N	1.638 O.D.,1.412 I.D.,0.2180 Depth,OEM # R51734
Valve	Int	01471S	1.821 Head Diameter,Stellite Face,OEM #'s R51735, R72611, R83071, R89219, Late Style W/ Seal Groove , Will Replace Early Style W/O Seal Groove
	Exh	01233	1.575 Head Diameter,OEM # R79624, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove OEM # R73063
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-7248	0.3750 I.D.,2.750 Length,0.5640 O.D.
		140-9115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1205	2.173 Length,OEM # R26125
Rotator	Exh	161-1040	OEM # RE11410

362 C.I., (5.9L), 362/6362, Gas/LPG, OHV, 12 Valve**JON6362 57**

L6 362 CID

BORE - 107.95mm/4.250""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 $\frac{3}{4}$ O.D.,1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.688 Valve Head Dia.
	Exh	SB1562-1N	1 $\frac{9}{16}$ O.D.,1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth
Valve	Int	01402	1.688 Head Diameter,2 Groove,OEM # R41414
	Exh	01376S	1.500 Head Diameter,Stellite Face, 1 Groove,OEM # R41413
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-1898	0.3750 I.D.,3.313 Length,0.6255 O.D.,For Castings W/ Factory Installed Guides; OEM # R-28654-R; 140-1898+2 May Be Used W/ $\frac{5}{8}$ Reamer

379 C.I., (6.2L), 379, Gas, OHV, 4 Valve**JON379 58**

L2 379 CID

BORE - 149.2mm/5.875""

PART		PART NO.	NOTES
Guide	Both	140-1932	0.5640 I.D.,5.375 Length,1.0030 O.D.

381 C.I., (6.2L), 381, Diesel, OHV, 12 Valve**JON381D 59**

L6 381 CID

BORE - 104.7mm/4.122""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-4	1 $\frac{13}{16}$ O.D.,1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1625-1N	1 $\frac{5}{8}$ O.D.,1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth
Keeper	Both	121-1000	2 RD Bead Type
Guide	Both	140-1898	0.3750 I.D.,3.313 Length,0.6255 O.D.,For Castings W/ Factory Installed Guides; OEM # R-28654-R; 140-1898+2 May Be Used W/ $\frac{5}{8}$ Reamer
Spring	Both	160-1205	2.173 Length,OEM # R26125

404 C.I., (6.6L), 404, Diesel, OHV, 12 Valve**JON404 60**

L6 404 CID

BORE - 107.95mm/4.250""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1937-1	1 $\frac{15}{16}$ O.D.,1 $\frac{11}{16}$ I.D., $\frac{1}{4}$ Depth
	Exh	SB1750-1N	1 $\frac{3}{4}$ O.D.,1 $\frac{1}{2}$ I.D., $\frac{1}{4}$ Depth
Valve	Int	01289	1.902 Head Diameter,2 Groove,OEM # R32034 & R44174, 6.245 Overall Length
		01336S	1.902 Head Diameter,Stellite Face,OEM # R41410 & R43883, 6.148 Overall Length, 1 Groove & 1 Seal Groove
	Exh	01288	1.715 Head Diameter,2 Groove,OEM # R32035 & R44175, 6.227 Overall Length

JOHN DEERE / TRACTOR (Cont'd)

60 404 C.I., (6.6L), 404, Diesel, OHV, 12 Valve
(cont.) L6 404 CID

JON404
BORE - 107.95mm/4.250"

PART		PART NO.	NOTES
Valve	Exh	01375	1.715 Head Diameter, Recommended OEM Nickel Base Inconel Material, OEM # R41411 & R43679, 6.133 Overall Length, Single Groove
		21375	1.715 Head Diameter, Alternative Austenitic Material, 6.133 Overall Length, Single Groove
Keeper	Both	121-1000	2 RD Bead Type, Use W/ 01288 & 01289, 3/8 Stem Dia.
		121-1007	1 SQ Bead Type, Use W/ 01336S & 01375, 3/8 Stem Dia.
Stem Seal	Both	122-1015	Positive Type, Tef/Rub Material, 1-Ring Style, Opt., Machine Guide To .562 O.D.
		122-1023	O-Ring Type, Poly Material, O-Ring Style, OEM # R87627
Guide	Both	140-1898	0.3750 I.D., 3.313 Length, 0.6255 O.D., OEM # R28654R, For Castings W/ Factory Installed Guides; 140-1898+2 May Be Used W/ 5/8 Reamer
Spring	Both	160-1205	2.173 Length, OEM # R26125
Rotator	Exh	161-1040	OEM # RE11410, Use W/ 1 Groove Valve

61 404 C.I., (6.6L), 404AT Diesel, OHV, 12 Valve, ""TURBO""
L6 404 CID

JON404AT
BORE - 107.95mm/4.250"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 3/4 O.D., 1 1/2 I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1750-2N	1 3/4 O.D., 1 1/2 I.D., 7/32 Depth
Valve	Int	01403	1.715 Head Diameter, 2 Groove, OEM # R50358, 6.192 Overall Length
		01404	1.750 Head Diameter, 2 Groove, OEM # R43914, 6.128 Overall Length
	Exh	01377	1.715 Head Diameter, Recommended OEM Nickel Base Inconel Material, OEM # R50357, 6.208 Overall Length, Single Groove
		21377	1.715 Head Diameter, Alternative Austenitic Material, 6.208 Overall Length, Single Groove
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1017	Positive Type, Tef/Rub Material, 1-Ring Style, Machine Guide To 0.594 O.D.
Guide	Both	140-1898	0.3750 I.D., 3.313 Length, 0.6255 O.D., OEM # R28654R, For Castings W/ Factory Installed Guides; 140-1898+2 May Be Used W/ 5/8 Reamer
Spring	Both	160-1205	2.173 Length, OEM # R26125
Rotator	Exh	161-1040	OEM # RE11410, Use W/ 1 Groove Valve

62 414 C.I., (6.8L), 414D/6414D, Diesel, OHV, 12 Valve
L6 414 CID

6414D
BORE - 106.426mm/4.190"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1858E-1N	1.858 O.D., 1.608 I.D., 0.2090 Depth, OEM # R73064
	Exh	SB1638E-1N	1.638 O.D., 1.412 I.D., 0.2180 Depth, OEM # R51734
Valve	Int	01471S	1.821 Head Diameter, Stellite Face, OEM #'s R51735, R72611, R83071, R89219
	Exh	01233	1.575 Head Diameter, OEM # R79624, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove OEM # R73063
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-7248	0.3750 I.D., 2.750 Length, 0.5640 O.D.
		140-7448	0.3745 I.D., 3.000 Length, 0.5640 O.D., Plain I.D. Conversion Guide, Optional
		140-9458	0.3740 I.D., 3.060 Length, 0.5020 O.D.
Spring	Both	160-1205	2.173 Length, OEM # R26125
Rotator	Exh	161-1040	OEM # RE11410, Use W/ 1 Groove Valve

(Cont'd) JOHN DEERE / TRACTOR**414 C.I., (6.8L), 414T/6414T, Diesel, OHV, 12 Valve, ""TURBO""****6414T 63**

L6 414 CID

BORE - 106.426mm/4.190""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1858E-1N	1.858 O.D.,1.608 I.D.,0.2090 Depth,OEM # R73064
	Exh	SB1638E-1N	1.638 O.D.,1.412 I.D.,0.2180 Depth,OEM # R51734
Valve	Int	01471S	1.821 Head Diameter,Stellite Face,OEM #'s R51735, R72611, R83071, R89219, Late Style W/ Seal Groove, Replaces Early Style W/O Seal Groove
	Exh	01233	1.575 Head Diameter,OEM # R79624, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove OEM # R73063
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-7248	0.3750 I.D.,2.750 Length,0.5640 O.D.
		140-7448	0.3745 I.D.,3.000 Length,0.5640 O.D.,Plain I.D. Conversion Guide,Optional
		140-9458	0.3740 I.D.,3.060 Length,0.5020 O.D.
Spring	Both	160-1205	2.173 Length,OEM # R26125R
Rotator	Exh	161-1040	OEM # RE11410

414 C.I., (6.8L), 6068D, Diesel, OHV, 12 Valve, ""PowerTech""**6068D 64**

L6 414 CID

BORE - 106.5mm/4.193""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1856E-1	1.857 O.D.,1.550T I.D.,0.2570 Depth,+10 O/S Available,OEM # R98063, 30 Deg. Seat
	Exh	SB1695E-1	1.695 O.D.,1.348T I.D.,0.2430 Depth,+10 O/S Available,OEM # R85687, 30 Degree Seat
Valve	Int	01589	1.835 Head Diameter,OEM # R98062
	Exh	01588	1.673 Head Diameter,OEM # R90692
Keeper	Both	121-1078	1 RD Bead Type,OEM # R91889
Stem Seal	Both	122-1069	Positive Type,Viton Material, Ring & Band Style,OEM # RE31617
Guide	Int	140-8674	0.3120 I.D.,2.209 Length,0.5020 O.D.
	Exh	140-8673	0.3120 I.D.,2.390 Length,0.5020 O.D.
Spring	Both	160-1205	2.173 Length,OEM # R26125
Rotator	Both	161-1042	OEM # RE60005
Injector Tubes and Components		240-1040RB	Nitrile Material,O-Ring, Bottom; Light Green
		240-1054	Stainless Steel Material,injector Tube,NOTE: Services Injector Sleeve In OEM Kit # RE527456: Requires (1) 240-1040RB O-Ring Sold Separately

414 C.I., (6.8L), 6068T/H, Diesel, OHV, 12 Valve, ""PowerTech TURBO""**6068T/H 65**

L6 414 CID

BORE - 106.5mm/4.193""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1856E-1	1.857 O.D.,1.550T I.D.,0.2570 Depth,+10 O/S Available,OEM # R98063, 30 Degree Seat
	Exh	SB1695E-1	1.695 O.D.,1.348T I.D.,0.2430 Depth,+10 O/S Available,OEM # R85687, 30 Degree Seat
Valve	Int	01589	1.835 Head Diameter,OEM # R98062
	Exh	01588	1.673 Head Diameter,OEM # R90692
Keeper	Both	121-1078	1 RD Bead Type,OEM # R91889
Stem Seal	Both	122-1069	Positive Type,Viton Material, Ring & Band Style,OEM # RE31617
Guide	Int	140-8674	0.3120 I.D.,2.209 Length,0.5020 O.D.
	Exh	140-8673	0.3120 I.D.,2.390 Length,0.5020 O.D.
Spring	Both	160-1205	2.173 Length,OEM # R26125
Rotator	Both	161-1042	OEM # RE60005

JOHN DEERE / TRACTOR (Cont'd)

65 414 C.I., (6.8L), 6068T/H, Diesel, OHV, 12 Valve, ""PowerTech TURBO"" 6068T/H
(cont.) L6 414 CID BORE - 106.5mm/4.193""

PART	PART NO.	NOTES
Injector Tubes and Components	240-1040RB	Nitrile Material,O-Ring, Bottom; Light Green
	240-1054	Stainless Steel Material,injector Tube,NOTE: Services Injector Sleeve In OEM Kit # RE527456: Requires (1) 240-1040RB O-Ring Sold Separately

66 414 C.I., (6.8L), 6068, Diesel, OHV, 24 Valve, ""Tier 2-3 PowerTech Plus TURBO"" 6068D_24V-T2-3
L6 414 CID BORE - 106.0mm/4.173""

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1476E-2	1.476 O.D.,1.200T I.D.,0.2445 Depth,OEM # R504969, R515034, RE518082
	Exh SB1437E-2	1.437 O.D.,1.125T I.D.,0.2365 Depth,OEM # R504968, R515033, RE518083
Valve	Int 13246	1.457 Head Diameter,OEM # R502369, RE518080, R518806, R536135; NOTE: With Letter ""O"" In Head; Services Valve Included in Kit # RE531221 & RE557890
	Exh 13417	1.417 Head Diameter,Inconel,OEM # R502370, RE518081, R527845, R536136, NOTE: With Letter ""V"" In Head, Services Valve In Kit # RE557891
Stem Seal	Both 122-1432	Positive Type,Viton Material,Metal Clad Style,OEM # RE526519; NOTE: For Use With Integral Guide Castings
	122-1485	Positive Type,Viton Material,Ring & Band Style,OEM # RE519115; NOTE: Green, For Use With Integral Guide Castings
Guide	Both 140-3141	0.2777 I.D.,2.347 Length,0.5020 O.D.,NOTE: For Use With Integral Guide Castings
Spring	Both 160-1602	1.908 Length,Conical,OEM # R518872; NOTE: Part Of Kit # RE531223, With 0.135 Wire Dia., Services Spring With White Stripe
	160-1667	1.975 Length,Conical,OEM # R503906, RE516486; NOTE: With 0.120 Wire Dia., Services Spring With Light Green Stripe
Injector Tubes and Components	240-1040	Stainless Steel Material,Injector Tube,OEM # RE517435, RE543935
	240-1040RB	Nitrile Material,O-Ring, Bottom; Light Green,OEM # RE530609
	240-1040RT	Viton Material,O-Ring, Top; Dark Green,OEM # RE528349

67 414 C.I., (6.8L), 6068, Diesel, OHV, 24 Valve, ""Tier 4 PowerTech Plus TURBO"" 6068D_24V-T4
L6 414 CID BORE - 106.0mm/4.173""

PART	PART NO.	NOTES
Valve	Int 13436	1.437 Head Diameter,OEM # R534238 ; NOTE: With Letter ""T"" In Head
	13438	1.437 Head Diameter,OEM # R527333, R532100; NOTE: With Letter "" I "" In Head
	Exh 13437	1.398 Head Diameter,Inconel,OEM # R534237 ; NOTE: With Letter ""N"" In Head
	13439	1.398 Head Diameter,Inconel,OEM # R527334, R532049; NOTE: With Letter "" E "" In Head
Stem Seal	Int 122-1488	Positive Type,Viton Material,Top Hat Style,OEM # RE536919; NOTE: Light Green; For Castings With Removable Guides
	Exh 122-1489	Positive Type,Viton Material,Top Hat Style,OEM # RE541360; NOTE: Dark Gray; For Castings With Removable Guides
Guide	Both 140-3196	0.2775 I.D.,2.345 Length,0.4725 O.D.,OEM # R529030, R537044; NOTE: W/ Seal Groove, Use With Top Hat Seals
	140-3197	0.2775 I.D.,2.345 Length,0.4725 O.D.,OEM # R545673; NOTE: W/O Seal Groove, Use With Top Hat Seals
Spring	Both 160-1674	1.998 Length,Conical,OEM # R528300; NOTE: With 0.135 Wire Dia., Services Spring W/ Pink Stripes

(Cont'd) JOHN DEERE / TRACTOR**414 C.I., (6.8L), 6068, Diesel, OHV, 24 Valve, ""Tier 4 PowerTech Plus TURBO""****67**

6068D_24V-T4 (cont.)

L6 414 CID

BORE - 106.0mm/4.173""

PART		PART NO.	NOTES
Spring	Both	160-1675	1.988 Length,Conical,OEM # R534236; NOTE: With 0.142 Wire Dia., Services Spring W/ No Stripe
Injector Tubes and Components		240-1040	Stainless Steel Material,Injector Tube,OEM # RE517435, RE543935
		240-1040RB	Nitrile Material,O-Ring, Bottom; Light Green,OEM # RE530609
		240-1040RT	Viton Material,O-Ring, Top; Dark Green,OEM # RE528349

466 C.I., (7.6L), 466D/6466D, Diesel, OHV, 12 Valve**JON6466D 68**

L6 466 CID

BORE - 115.89mm/4.563""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1937-17	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., ⁷ / ₃₂ Depth
	Exh	SB1750-2N	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth
Valve	Int	01336S	1.902 Head Diameter,Stellite Face,OEM #'s R41410 & R43883, 1 Groove & 1 Seal Groove
	Exh	01375	1.715 Head Diameter,Recommended OEM Nickel Base Inconel Material,OEM # R41411 & R43679, 6.133 Overall Length, Single Groove
		21375	1.715 Head Diameter,Alternative Austenitic Material,6.133 Overall Length, Single Groove
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Int	122-1023	O-Ring Type,Poly Material,O-Ring Style,OEM # R87627
	Both	122-1015	Positive Type,Tef/Rub Material,1-Ring Style,Opt., Machine Guide To .562 O.D.
Guide	Both	140-7248	0.3750 I.D.,2.750 Length,0.5640 O.D.
		140-7448	0.3745 I.D.,3.000 Length,0.5640 O.D.,Plain I.D. Conversion Guide,Optional
		140-9458	0.3740 I.D.,3.060 Length,0.5020 O.D.
Spring	Both	160-1205	2.173 Length,OEM # R26125
Rotator	Exh	161-1040	OEM # RE11410

466 C.I., (7.6L), 466A/6466T, Diesel, OHV, 12 Valve, ""Intercooled TURBO""**JON6466T 69**

L6 466 CID

BORE - 115.89mm/4.563""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.715 Valve Head Dia.
	Exh	SB1750-2N	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth,W/ 1.715 Valve Head Dia.
Valve	Int	01403	1.715 Head Diameter,2 Groove,OEM # R50358
	Exh	01377	1.715 Head Diameter,Recommended OEM Nickel Base Inconel Material,OEM # R50357, Single Groove
		21377	1.715 Head Diameter,Alternative Austenitic Material,6.208 Overall Length, Single Groove
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-7248	0.3750 I.D.,2.750 Length,0.5640 O.D.
		140-7448	0.3745 I.D.,3.000 Length,0.5640 O.D.,Plain I.D. Conversion Guide,Optional
Spring	Both	160-1205	2.173 Length,OEM # R26125, Exc. 6076 Eng.
Rotator	Both	161-1040	OEM # RE11410

466 C.I., (7.6L), 6076A/6076T, Diesel, OHV, 12 Valve, ""TURBO""**JON6076T 70**

L6 466 CID

BORE - 116mm/4.567""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2051E-4	2.051 O.D.,1.744T I.D.,0.2410 Depth,OEM # R84977
	Exh	SB1933E-2	1.933 O.D.,1.454T I.D.,0.2410 Depth,OEM # R84976
Valve	Int	01587	2.008 Head Diameter,OEM # R84618, R504060

JOHN DEERE / TRACTOR (Cont'd)

70 466 C.I., (7.6L), 6076A/6076T, Diesel, OHV, 12 Valve, ""TURBO"" JON6076T
 (cont.) L6 466 CID BORE - 116mm/4.567""

PART		PART NO.	NOTES
Valve	Exh	01586	1.850 Head Diameter,Recommended OEM Nickel Base Inconel Material,OEM # R84619, R504061
		21586	1.850 Head Diameter,Alternative Austenitic Material
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Exh	122-1392	Umbrella Type,Nylon Material,Umbrella Style,Oil Shield, OEM # R102882
Guide	Both	140-9458H	0.3740 I.D.,3.063 Length,0.5020 O.D.,Optional Hardened Conversion Guide
Spring	Both	160-1447	2.560 Length,OEM # R91822
Rotator	Both	161-1040	OEM # RE11410

71 496 C.I., (8.1L), 6081, Diesel, OHV, 12 Valve, ""PowerTech TURBO"" JON6081
L6 496 CID BORE - 116mm/4.567""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2051E-5	2.051 O.D.,1.744T I.D.,0.2410 Depth,OEM # R121193
	Exh	SB1933E-2	1.933 O.D.,1.454T I.D.,0.2410 Depth,OEM # R119132
Valve	Int Exh	01587	2.008 Head Diameter,OEM # R84618, R504060
		01586	1.850 Head Diameter,Recommended OEM Nickel Base Inconel Material,OEM # R84619, R504061
		21586	1.850 Head Diameter,Alternative Austenitic Material
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Exh	122-1392	Umbrella Type,Nylon Material,Umbrella Style,Oil Shield, OEM # R102882; NOTE: W/ Rotator & For Use W/ 160-1447 Valve Spring
		122-1443	Umbrella Type,Nylon Material,Oil Shield Style,Oil Shield, OEM # R501640; NOTE: W/O Rotator
Guide	Both	140-9458H	0.3740 I.D.,3.063 Length,0.5020 O.D.,Optional Hardened Conversion Guide
Spring	Both	160-1447	2.560 Length,OEM # R91822, NOTE: For Use On Some Engines Equipped W/ Rotators and W/O Rotators
		160-1615	2.330 Length,OEM # R502187; NOTE: W/O Rotator; For Use With R501640 Oil Shield
Rotator	Both	161-1040	OEM # RE11410; NOTE: For Use W/ 160-1447 Valve Spring & 122-1392 Oil Shield When Equipped W/ Rotators

72 531 C.I., (8.7L), 6531A, Diesel, OHV, 12 Valve, ""Intercooled TURBO"" 6531A
L6 531 CID BORE - 120.65mm/4.750""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2136E-1N	2.136 O.D.,1.705T I.D.,0.3190 Depth,+20 O/S Available,OEM # R48313 & R59894
	Exh	SB1991E-1N	1.991 O.D.,1.616T I.D.,0.3090 Depth,OEM #'s R48314 & R60537
Keeper	Both	121-1009	1 SQ Bead Type
Stem Seal	Int	122-1023	O-Ring Type,Poly Material,O-Ring Style,OEM # R87627
Guide	Both	140-8004	0.4375 I.D.,3.188 Length,0.7835 O.D.,OEM # R40357, R53192; Use with 7/16 Valve Stem Dia.
Spring	Both	160-1448	2.320 Length,Inner, OEM # R49569
		160-1449	2.520 Length,Outer, OEM # R49571

73 531 C.I., (8.7L), 6531D, Diesel, OHV, 12 Valve 6531D
L6 531 CID BORE - 120.65mm/4.750""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2212E-1N	2.212 O.D.,1.960 I.D.,0.2500 Depth,OEM # R41868
	Exh	SB1919E-1N	1.919 O.D.,1.665 I.D.,0.2500 Depth,OEM # R41869
Valve	Exh	01406	1.875 Head Diameter,OEM # R45823

(Cont'd) JOHN DEERE / TRACTOR**531 C.I., (8.7L), 6531D, Diesel, OHV, 12 Valve**

L6 531 CID

6531D **73**

BORE - 120.65mm/4.750" (cont.)

PART		PART NO.	NOTES
Keeper	Both	121-1009	1 SQ Bead Type
Guide	Both	140-8004	0.4375 I.D.,3.188 Length,0.7835 O.D.,OEM # R40357, R53192
Spring	Both	160-1448	2.320 Length,Inner, OEM # R49569, Late
		160-1449	2.520 Length,Outer, OEM # R49571, Late

549 C.I., (9.0L), 6090, Diesel, SOHC, 24 Valve, ""PowerTech Plus TURBO""

L6 549 CID

6090D_24V **74**

BORE - 118.4mm/4.661"

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1638E-2	1.638 O.D.,1.400 I.D.,0.2180 Depth,OEM # R527285
		SB1638E-2T	1.638 O.D.,1.400 I.D.,0.2370 Depth,OEM # R522049; NOTE: Same As SB1638E-2 Except 0.019" Thicker
		SB1676E-1	1.676 O.D.,1.400T I.D.,0.2370 Depth,OEM # R527447
Valve	Int	13177S	1.575 Head Diameter,Stellite Face,OEM # R520223
	Exh	13178S	1.575 Head Diameter,Stellite Face,OEM # R520224
Keeper	Both	121-1078	1 RD Bead Type,OEM # R520798
Stem Seal	Both	122-1421	Positive Type,Viton Material,Top Hat Style,OEM # RE529187
Guide	Both	140-3131	0.3162 I.D.,2.465 Length,0.5335 O.D.,OEM # R527286
Spring	Both	160-1585	2.185 Length,OEM # R504235
Rotator	Both	161-1076	OEM # R530750
Injector Tubes and Components		240-1040	Stainless Steel Material,Injector Tube,OEM # RE517435, RE543935
		240-1040RB	Nitrile Material,O-Ring, Bottom; Light Green,OEM # RE530609
		240-1040RT	Viton Material,O-Ring, Top; Dark Green,OEM # RE528349

619 C.I., (10.1L), 6619T, Diesel, OHV, 12 Valve, ""Intercooled TURBO""

L6 619 CID

6619T **75**

BORE - 130mm/5.118"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2136E-1N	2.136 O.D.,1.705T I.D.,0.3190 Depth,+20 O/S Available,Up To S/N 499,999, OEM # R48313 & R59894; NOTE: Some Castings Used as Int. & Exh.
	Exh	SB1991E-1N	1.991 O.D.,1.616T I.D.,0.3090 Depth,Up To S/N 4999,999, OEM # R48314 & R60537
Valve	Int	01590S	2.031 Head Diameter,Stellite Face, ⁷ / ₁₆ Stem Dia. From S/N 021562, OEM # R81087, R75690 & R63981. Up To S/N 499,999.
	Exh	01412	1.875 Head Diameter,Recommended OEM Nickel Base Inconel Material, ⁷ / ₁₆ Stem Dia., From S/N 021562, OEM # R63982, Up To S/N 499,999
		21412	1.875 Head Diameter,Alternative Austenitic Material, ⁷ / ₁₆ Stem Dia., From S/N 021562, Up To S/N 499,999
Keeper	Both	121-1009	1 SQ Bead Type,Up To S/N 499,999, Use with ⁷ / ₁₆ Stem Dia..
Guide	Both	140-8004	0.4375 I.D.,3.188 Length,0.7835 O.D.,OEM # R40357, R53192; Up To S/N 499,999. Use with ⁷ / ₁₆ Valve Stem Dia.
Spring	Both	160-1448	2.320 Length,Inner, OEM # R49569
		160-1449	2.520 Length,Outer, OEM # R49571
Rotator	Both	161-1054	Up to S/N 499,999, Use with ⁷ / ₁₆ Valves, OEM # R81086

619 C.I., (10.1L), 6101A-T, Diesel, OHV, 12 Valve, ""500 Series TURBO""

L6 619 CID

6101A-T **76**

BORE - 130mm/5.118"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2136E-2PM	2.136 O.D.,1.705 I.D.,0.2950 Depth,From S/N 500,000, OEM # R102860
	Exh	SB2136E-3PM	2.136 O.D.,1.652 I.D.,0.3100 Depth,From S/N 500,000, OEM # R102859

JOHN DEERE / TRACTOR (Cont'd)

76 619 C.I., (10.1L), 6101A-T, Diesel, OHV, 12 Valve, ""500 Series TURBO"" 6101A-T
(cont.) L6 619 CID BORE - 130mm/5.118""

PART	PART NO.	NOTES
Valve	Int 01717S	2.087 Head Diameter,Stellite Face,From S/N 500,000, OEM # R101304, 29 degree
	Exh 01716	2.087 Head Diameter,From S/N 500,000, OEM # R101305, 36.5 degree
Keeper	Both 121-1007	1 SQ Bead Type
Stem Seal	Exh 122-1392	Umbrella Type,Nylon Material,Umbrella Style,Oil Shield; OEM # R102882
Guide	Both 140-3027	0.3750 I.D.,3.189 Length,0.7833 O.D.,OEM # R108988
Spring	Both 160-1447	2.560 Length,OEM # R91822
Rotator	Both 161-1040	From S/N 500,000, OEM # RE11410

77 644 C.I., (10.5L), 6105A/H, Diesel, SOHC, 24 Valve, ""PowerTech TURBO"" 6105AH
L6 644 CID BORE - 138mm/5.433""

PART	PART NO.	NOTES
Valve Seat Insert	Both SB1951E-1	1.951 O.D.,1.510T I.D.,0.2900 Depth,+10 O/S Available,OEM # R502401, R504713
Valve	Both 01889	1.830 Head Diameter,Inconel ,OEM # R122035
Keeper	Both 121-1078	1 RD Bead Type,OEM # R91889
Stem Seal	Both 122-1415	Positive Type,Viton Material,Top Hat Style,OEM # RE66635
Guide	Both 140-3050	0.3570 I.D.,3.355 Length,0.5905 O.D.,OEM # R517011; +2 O/S Available
Spring	Both 160-1456	2.756 Length,OEM # R133891
Injector Tubes and Components	240-1037	Stainless Steel Material,Injector Tube,OEM # RE518339, RE531334; NOTE: W/ Two O-Ring Grooves, Requires One Top O-Ring, Black (240-1037RT) And One Bottom O-Ring, Purple (240-1037RB)
	240-1037RB	EPDM Material,O-Ring, Bottom; Purple
	240-1037RT	Viton Material,O-Ring, Top; Black,OEM # T122075
	240-1038	Stainless Steel Material,Injector Tube,OEM # R501559, RE528634; NOTE: W/ Single O-Ring Groove, Requires One Black O-Ring (240-1037RT)

78 766 C.I., (12.5L), 6125A/H, Diesel, SOHC, 24 Valve, ""PowerTech TURBO"" 6125AH
L6 766 CID BORE - 165mm/6.496""

PART	PART NO.	NOTES
Valve Seat Insert	Both SB1951E-1	1.951 O.D.,1.510T I.D.,0.2900 Depth,+10 O/S Available,OEM # R502401, R504713
Valve	Both 01889	1.830 Head Diameter,Inconel ,OEM # R122035
Keeper	Both 121-1078	1 RD Bead Type,OEM # R91889
Stem Seal	Both 122-1415	Positive Type,Viton Material,Top Hat Style,OEM # RE66635
Guide	Both 140-3050	0.3570 I.D.,3.355 Length,0.5905 O.D.,OEM # R517011; +2 O/S Available
Spring	Both 160-1456	2.756 Length,OEM # R133891
Injector Tubes and Components	240-1037	Stainless Steel Material,Injector Tube,OEM # RE518339, RE531334; NOTE: W/ Two O-Ring Grooves, Requires One Top O-Ring, Black (240-1037RT) And One Bottom O-Ring, Purple (240-1037RB)
	240-1037RB	EPDM Material,O-Ring, Bottom; Purple
	240-1037RT	Viton Material,O-Ring, Top; Black,OEM # T122075
	240-1038	Stainless Steel Material,Injector Tube,OEM # R501559, RE528634; NOTE: W/ Single O-Ring Groove, Requires One Black O-Ring (240-1037RT)

79 824 C.I., (13.5L), 6135, Diesel, SOHC, 24 Valve, ""PowerTech Plus TURBO"" 6135_24V
L6 824 CID BORE - 132.0mm/5.197""

PART	PART NO.	NOTES
Valve Seat Insert	Both SB1832E-1	1.832 O.D.,1.510T I.D.,0.2410 Depth,OEM # R518327
Valve	Both 13176	1.732 Head Diameter,OEM # R518328

(Cont'd) **JOHN DEERE / TRACTOR**

824 C.I., (13.5L), 6135, Diesel, SOHC, 24 Valve, ""PowerTech Plus TURBO"" 6135_24V 79
L6 824 CID BORE - 132.0mm/5.197"" (cont.)

PART		PART NO.	NOTES
Keeper	Both	121-1078	1 RD Bead Type,OEM # R520798
Stem Seal	Both	122-1420 122-1499	Positive Type,Viton Material,Top Hat Style,OEM # RE523985 Positive Type,Viton Material,Top Hat Style,OEM # R528548; NOTE: W/ EGR
Guide	Both	140-3050	0.3570 I.D.,3.355 Length,0.5905 O.D.,OEM # R517011; +2 O/S Available
Spring	Both	160-1456	2.756 Length,OEM # R133891; NOTE: Services One Valve Spring Contained In Kit # RE505499
Injector Tubes and Components		240-1037 240-1037RB 240-1037RT 240-1049	Stainless Steel Material,Injector Tube,OEM # RE518339, RE531334; NOTE: Uses O-Rings 240-1037RT (Top) and 240-1037RB (Bottom) Sold Separately EPDM Material,O-Ring, Bottom; Purple Viton Material,O-Ring, Top; Black,OEM # T122075 Stainless Steel Material,Injector Tube,OEM # RE539446, RE548489; NOTE, Uses O-Rings 240-1037RT (Top) and 240-1037RB (Bottom) Sold Separately

KIA / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
1493cc, (1.5L), DOHC, GAS, FI, 16 Valve, G4FK, ""Alpha"" (2001-02)	Rio	1
1591cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 1, 2, 3, 5, B, C, G4FC, G4FD, ""Gamma MPi/GDi"" (2010-19)	Rio, Soul	2
1591cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 1, 3, A, C, F, G4FJ, ""Gamma T-GDi TURBO"" (2014-21)	Forte, Forte Koup, Forte5, Optima, Soul	3
1594cc, (1.6L), DOHC, GAS, FI, 16 Valve, A6D (2003-05)	Rio	4
1597cc, (1.6L), SOHC, GAS, FI, 16 Valve, Vin 1, B6, ""Mazda"" (1994-95)	Sephia	5
1597cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 3, 4, B6ZE, ""Mazda"" (1996-97)	Sephia	6
1599cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 3, G4ED, ""Alpha II"" (2006-11)	Rio, Rio5	7
1793cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 1, 5BP, ""Mazda"" (1998-04)	Sephia, Spectra	8
1839cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 5, BPD, ""Mazda"" (1995-97)	Sephia	9
1975cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 1, 2, 4, G4GC, ""Beta II"" (2004-11)	Soul, Spectra, Spectra5, Sportage	10
1998cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin 1, FE, ""Mazda"" (1995-95)	Sportage	11
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 3, FE, ""Mazda"" (1995-02)	Sportage	12
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 2, 6, G4KD, ""Theta II MPi"" (2010-13)	Forte, Forte Koup, Forte5, Soul	13
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 6, G4KF, ""Theta II MPi TURBO"" (2011-13)	Optima, Sportage	14
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 1, 2, 6, A, G4KH, G4KL, ""Theta II T-GDi TURBO"" (2014-21)	Optima, Sorento, Sportage, Stinger	15
1999cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 6, G4NA, ""Nu MPi"" (2012-13)	Soul	16

KIA / PASSENGER CAR OR TRUCK (Cont'd)

Engine	Models	Line No.
4 Cylinder		
1999cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 5, 7, 8, G4NC, ""Nu GDI"" (2014-19)	Forte, Forte Koup, Forte5, Soul	17
1999cc, (2.0L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin C, D, E, G4NG, ""Nu GDI Hybrid"" (2017-20)	Optima Hybrid	18
2351cc, (2.4L), DOHC, GAS, FI, Vin 6, S, G4JS, ""Sirius II"" (2001-06)	Magentis, Optima	19
2359cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin 1, 2, 3, 5, 7, 8, 9, G4KC, ""Theta II MPI"" (2006-13)	Forte, Forte Koup, Forte5, Magentis, Optima, Rondo, Sorento, Sportage	20
2359cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin 3, 6, 7, C, G4KE, G4KJ, ""Theta II GDI"" (2014-21)	Optima, Sorento, Sportage	21
2359cc, (2.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin D, G4KK, ""Theta II Hybrid"" (2011-16)	Optima Hybrid	22
6 Cylinder		
2493cc, (2.5L), DOHC, GAS, FI, 24 Valve, G6BV, ""Delta"" (2001-01)	Optima	23
2656cc, (2.7L), DOHC, GAS, FI, 24 Valve, Vin 3, 8, G6BA, ""Delta"" (2002-10)	Magentis, Optima, Sportage	24
2656cc, (2.7L), DOHC, GAS, FI, 24 Valve, Vin 4, 6, G6EA, ""Mu"" (2007-10)	Magentis, Optima, Rondo	25
3342cc, (3.3L), DOHC, GAS, FI, 24 Valve, Vin 5, G6DB, ""Lambda"" (2008-09)	Sorento	26
3342cc, (3.3L), DOHC, GAS, FI, 24 Valve, Vin 1, 5, 7, G6DH, ""Lambda II GDI"" (2014-20)	Cadenza, Sedona, Sorento	27
3342cc, (3.3L), DOHC, GAS, FI, 24 Valve, Vin 6, C, P ""Genesis Lambda II T-GDi TURBO"" (2018-20)	K900, Stinger	28
3470cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin 2, 7, G6DB, ""Lambda II"" (2011-14)	Sedona, Sorento	29
3497cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin 1, 4, G6AU, ""Sigma"" (2002-06)	Amanti, Sedona, Sorento	30
3778cc, (3.8L), DOHC, GAS, FI, 24 Valve, Vin 1, 3, 5, 6, G6DB, ""Lambda II"" (2006-10)	Amanti, Borrego, Sedona, Sorento	31
3778cc, (3.8L), DOHC, GAS, FI, 24 Valve, Vin 3, G6DJ, ""Lamda II GDI"" (2015-16)	K900	32

1 1493cc, (1.5L), DOHC, GAS, FI, 16 Valve, G4FK, ""Alpha"" KIA1.5-G4FK
 2001-02 L4 91 CID BORE - 75.5mm/2.97""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2001-02	02194	1.094 Head Diameter
	Exh	2001-02	02195	0.980 Head Diameter
Keeper	Both	2001-02	121-1108	1 RD Bead Type
Stem Seal	Both	2001-02	122-1162	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2001-02	140-3129	0.2167 I.D.,1.660 Length,0.3760 O.D.
Lifter	Both	2001-02	VL149	Hydraulic Bucket Type

2 1591cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 1, 2, 3, 5, B, C, G4FC, G4FD, ""Gamma MPI/GDI"" KIA1.6-G4FC_D
 2010-19 L4 97 CID BORE - 77mm/3.03""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2010-19	121-1060	1 RD Bead Type

(Cont'd) KIA / PASSENGER CAR OR TRUCK

1591cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 1, 3, A, C, F, G4FJ, ""Gamma T-GDi TURBO"" **3**
 KIA1.6-G4FJ
 2014-21 L4 97 CID BORE - 77mm/3.03""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2014-20 121-1060	1 RD Bead Type

1594cc, (1.6L), DOHC, GAS, FI, 16 Valve, A6D **4**
 KIA1.6-A6D
 2003-05 L4 97 CID BORE - 78mm/3.07""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	2003-05 2003-05	SB1250-61 SB1125-51	1¼ O.D.,0.976 I.D.,0.1800 Depth 1½ O.D.,0.854 I.D.,0.2370 Depth,Seat May Need To Be Machined In Order To Achieve Correct Depth
Valve	Int Exh	2003-05 2003-05	13038 13039	1.150 Head Diameter 1.015 Head Diameter
Keeper	Both	2003-05	121-1108	1 RD Bead Type
Stem Seal	Both	2003-05	122-1162	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2003-05	140-3129	0.2167 I.D.,1.660 Length,0.3760 O.D.
Lifter	Both	2003-05	VL149	Hydraulic Bucket Type

1597cc, (1.6L), SOHC, GAS, FI, 16 Valve, Vin 1, B6, ""Mazda"" **5**
 KIA1.6-B6
 1994-95 L4 97 CID BORE - 78mm/3.07""

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1994-95	122-1285	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1994-95	140-8173	0.2370 I.D.,1.775 Length,0.4360 O.D.,W/ Snap Ring
Lifter	Both	1994-95	VL146	Hydraulic Lash Adjuster Type

1597cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 3, 4, B6ZE, ""Mazda"" **6**
 KIA1.6-B6ZE
 1996-97 L4 97 CID BORE - 78mm/3.07""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1996-97 1996-97	SB1250-61 SB1062-50	1¼ O.D.,0.976 I.D.,0.1800 Depth 1⅞ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int Exh	1996-97 1996-97	10157 10159	1.220 Head Diameter 1.031 Head Diameter,Inconel
Stem Seal	Both	1996-97	122-1285	Positive Type,Viton Material,Metal Clad Style
Guide	Int Exh	1996-97 1996-97	140-8187 140-8186	0.2371 I.D.,1.920 Length,0.4355 O.D.,W/ Snap Ring, Tapered End 0.2371 I.D.,1.920 Length,0.4355 O.D.,W/ Snap Ring

1599cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 3, G4ED, ""Alpha II"" **7**
 KIA1.6-G4ED
 2006-11 L4 98 CID BORE - 76.5mm/3.01""

PART	YEARS	PART NO.	NOTES	
Valve	Int Exh	2006-11 2006-11	13047 10813	1.146 Head Diameter 0.984 Head Diameter
Keeper	Both	2006-11	121-1102	1 RD Bead Type
Stem Seal	Both	2006-11	122-1366	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2006-11	140-8147	0.2370 I.D.,1.520 Length,0.4360 O.D.
Lifter	Both	2006-11	VL568	Hydraulic Bucket Type
Head Saver Shim		2006-11	230-2190	New Hgt. - 2.496; Min. Htg. - N/A

1793cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 1, 5BP, ""Mazda"" **8**
 KIA1.8-5BP
 1998-04 L4 109 CID BORE - 83mm/3.29""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1998-04	SB1312-52	1⅞ O.D.,1.060T I.D.,0.2400 Depth

KIA / PASSENGER CAR OR TRUCK (Cont'd)

8 1793cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 1, 5BP, ""Mazda"" KIA1.8-5BP
(cont.) 1998-04 L4 109 CID BORE - 83mm/3.29""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1998-04	SB1125-53	1 $\frac{1}{8}$ O.D.,0.890T I.D.,0.2370 Depth
Valve	Int	1998-04	02196	1.240 Head Diameter
	Exh	1998-04	02197	1.063 Head Diameter
Stem Seal	Int	1998-04	122-1246	Positive Type,Viton Material,Metal Clad Style
	Exh	1998-04	122-1285	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1998-04	140-8173	0.2370 I.D.,1.775 Length,0.4360 O.D.,W/ Snap Ring

9 1839cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 5, BPD, ""Mazda"" KIA1.8-BPD
1995-97 L4 112 CID BORE - 83mm/3.29""

PART	YEARS	PART NO.	NOTES	
Valve	Int	1995-97	10234	1.298 Head Diameter
	Exh	1995-97	10235	1.103 Head Diameter
Stem Seal	Int	1995-97	122-1246	Positive Type,Viton Material,Metal Clad Style
	Exh	1995-97	122-1285	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1995-97	140-8173	0.2370 I.D.,1.775 Length,0.4360 O.D.,W/ Snap Ring

10 1975cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 1, 2, 4, G4GC, ""Beta II"" KIA2.0-G4GC
2004-11 L4 120 CID BORE - 82mm/3.23""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2004-11	10816	1.257 Head Diameter
	Exh	2004-11	10817	1.081 Head Diameter
Keeper	Both	2004-11	121-1102	1 RD Bead Type
Stem Seal	Both	2004-11	122-1366	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2004-11	140-8554	0.2355 I.D.,1.790 Length,0.4360 O.D.
	Exh	2004-11	140-8571	0.2360 I.D.,1.990 Length,0.4360 O.D.
Head Saver Shim		2004-11	230-2136	New Hgt. - N/A

11 1998cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin 1, FE, ""Mazda"" KIA2.0-FE8V
1995-95 L4 122 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1995-95	SB1812-50	1 $\frac{13}{16}$ O.D.,1.490T I.D.,0.3070 Depth
	Exh	1995-95	SB1500-54	1 $\frac{1}{2}$ O.D.,1.180T I.D.,0.3070 Depth
Valve	Int	1995-95	10236	1.732 Head Diameter
	Exh	1995-95	10237	1.417 Head Diameter
Keeper	Both	1995-95	121-1026	1 RD Bead Type,0.090 Bead Dia.
Stem Seal	Both	1995-95	122-1132	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1995-95	140-8172	0.3180 I.D.,2.177 Length,0.5531 O.D.,W/ Snap Ring,+2 O/S Available
Spring		1995-95	160-1096	1.720 Length,Inner
		1995-95	160-1097	1.958 Length,Outer

12 1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 3, FE, ""Mazda"" KIA2.0-FE16V
1995-02 L4 122 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1995-02	SB1437-75	1 $\frac{7}{16}$ O.D.,1.175 I.D.,0.2600 Depth
	Exh	1995-02	SB1250-58	1 $\frac{1}{4}$ O.D.,0.955 I.D.,0.2550 Depth
Valve	Int	1995-02	10814	1.327 Head Diameter
	Exh	1995-02	10815	1.140 Head Diameter
Stem Seal	Both	1995-02	122-1285	Positive Type,Viton Material,Metal Clad Style

(Cont'd) KIA / PASSENGER CAR OR TRUCK

1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 3, FE, ""Mazda"" KIA2.0-FE16V **12**
 1995-02 L4 122 CID BORE - 86mm/3.39"" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Int 1995-02	140-8187	0.2371 I.D.,1.920 Length,0.4355 O.D.,W/ Snap Ring, Tapered End
Head Saver Shim	1995-02	230-2154	New Hgt. 5.274-5.278; Min. Hgt. 5.274

1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 2, 6, G4KD, ""Theta II MPI"" KIA2.0-G4KD **13**
 2010-13 L4 122 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES
Valve	Int 2010-13 Exh 2010-13	13255 13256	1.378 Head Diameter 1.142 Head Diameter
Keeper	Both 2010-13	121-1060	1 RD Bead Type
Stem Seal	Both 2010-13	122-1440	Positive Type,Viton Material,Top Hat Style
Guide	Both 2010-13	140-3154	0.2168 I.D.,1.740 Length,0.4358 O.D.

1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 6, G4KF, ""Theta II MPI TURBO"" KIA2.0-G4KF **14**
 2011-13 L4 122 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES
Valve	Int 2011-13	13255	1.378 Head Diameter
Keeper	Both 2011-13	121-1060	1 RD Bead Type
Stem Seal	Both 2011-13	122-1440	Positive Type,Viton Material,Top Hat Style

1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 1, 2, 6, A, G4KH, G4KL, ""Theta II T-GDi TURBO"" KIA2.0-G4KT **15**
 2014-21 L4 122 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES
Valve	Int 2014-20 Exh 2014-15	13255 13256	1.378 Head Diameter 1.142 Head Diameter
Keeper	Both 2014-20	121-1060	1 RD Bead Type
Stem Seal	Both 2014-20	122-1440	Positive Type,Viton Material,Top Hat Style
Guide	Both 2014-20	140-3154	0.2168 I.D.,1.740 Length,0.4358 O.D.

1999cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 6, G4NA, ""Nu MPI"" KIA2.0-G4NA **16**
 2012-13 L4 122 CID BORE - 81mm/3.19""

PART	YEARS	PART NO.	NOTES
Keeper	Both 2012-13	121-1102	1 RD Bead Type
Stem Seal	Both 2012-13	122-1440	Positive Type,Viton Material,Top Hat Style

1999cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 5, 7, 8, G4NC, ""Nu GDi"" KIA2.0-G4NC **17**
 2014-19 L4 122 CID BORE - 81mm/3.19""

PART	YEARS	PART NO.	NOTES
Keeper	Both 2014-19	121-1060	1 RD Bead Type
Stem Seal	Both 2014-19	122-1440	Positive Type,Viton Material,Top Hat Style

1999cc, (2.0L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin C, D, E, G4NG, ""Nu GDi Hybrid"" KIA2.0-G4NG **18**
 2017-20 L4 122 CID BORE - 81mm/3.19""

PART	YEARS	PART NO.	NOTES
Keeper	Both 2017-20	121-1060	1 RD Bead Type
Stem Seal	Both 2017-20	122-1440	Positive Type,Viton Material,Top Hat Style

KIA / PASSENGER CAR OR TRUCK (Cont'd)

19 2351cc, (2.4L), DOHC, GAS, FI, Vin 6, S, G4JS, ""Sirius II"" KIA2.4-G4JS
 2001-06 L4 143 CID BORE - 86.5mm/3.41""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2001-06	10126A	1.339 Head Diameter,Nitride
		2001-06	10126R	1.378 Head Diameter,Performance Version W/ 1.0mm Larger Head Diameter
	Exh	2001-06	10128A	1.201 Head Diameter,Nitride
		2001-06	10128R	1.221 Head Diameter,Performance Version W/ 0.5mm Larger Head Diameter
Keeper	Both	2001-06	121-1031	1 RD Bead Type
Stem Seal	Both	2001-06	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2001-06	140-8193	0.2600 I.D.,1.795 Length,0.4755 O.D.,+2 O/S Available
		2001-06	340-1013BR	0.2598 I.D.,1.795 Length,0.4760 O.D.,Optional Bronze Guide
	Exh	2001-06	140-8194	0.2600 I.D.,1.990 Length,0.4755 O.D.,+2 O/S Available
		2001-06	340-1014BR	0.2598 I.D.,1.990 Length,0.4755 O.D.,Optional Bronze Guide
Lifter	Both	2001-06	VL135	Hydraulic Lash Adjuster Type
Head Bolt Set		2001-06	220-1114	Torque To Yield,Services Engine
Head Saver Shim		2001-06	230-2149	New Hgt. 5.197-5.200; Min. Hgt. N/A

20 2359cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin 1, 2, 3, 5, 7, 8, 9, G4KC, ""Theta II MPI"" KIA2.4-G4KC
 2006-13 L4 144 CID BORE - 88mm/3.46""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2006-13	13255	1.378 Head Diameter
	Exh	2006-13	13256	1.142 Head Diameter
Keeper	Both	2006-13	121-1060	1 RD Bead Type
Stem Seal	Both	2006-13	122-1440	Positive Type,Viton Material,Top Hat Style
Guide	Both	2006-13	140-3154	0.2168 I.D.,1.740 Length,0.4358 O.D.

21 2359cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin 3, 6, 7, C, G4KE, G4KJ, ""Theta II GDI"" KIA2.4-G4KE_J
 2014-21 L4 144 CID BORE - 88mm/3.46""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2014-20	13255	1.378 Head Diameter
	Exh	2014-20	13256	1.142 Head Diameter
Keeper	Both	2014-20	121-1060	1 RD Bead Type
Stem Seal	Both	2014-20	122-1440	Positive Type,Viton Material,Top Hat Style
Guide	Both	2014-20	140-3154	0.2168 I.D.,1.740 Length,0.4358 O.D.

22 2359cc, (2.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin D, G4KK, ""Theta II Hybrid"" KIA2.4-G4KK
 2011-16 L4 144 CID BORE - 88mm/3.46""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2011-16	13255	1.378 Head Diameter
	Exh	2011-16	13256	1.142 Head Diameter
Keeper	Both	2011-16	121-1060	1 RD Bead Type
Stem Seal	Both	2011-16	122-1440	Positive Type,Viton Material,Top Hat Style
Guide	Both	2011-16	140-3154	0.2168 I.D.,1.740 Length,0.4358 O.D.

23 2493cc, (2.5L), DOHC, GAS, FI, 24 Valve, G6BV, ""Delta"" KIA2.5-G6BV
 2001-01 V6 152 CID BORE - 80mm/3.15""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2001-01	10808	1.260 Head Diameter

(Cont'd) KIA / PASSENGER CAR OR TRUCK

2493cc, (2.5L), DOHC, GAS, FI, 24 Valve, G6BV, ""Delta"" KIA2.5-G6BV **23**
 2001-01 V6 152 CID BORE - 80mm/3.15"" (cont.)

PART	YEARS	PART NO.	NOTES	
Valve	Exh	2001-01	10809	1.083 Head Diameter
Keeper	Both	2001-01	121-1102	1 RD Bead Type
Stem Seal	Both	2001-01	122-1366	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2001-01	140-8573	0.2360 I.D.,1.540 Length,0.4358 O.D.
	Exh	2001-01	140-8572	0.2360 I.D.,1.690 Length,0.4360 O.D.
Lifter	Both	2001-01	VL568	Hydraulic Bucket Type

2656cc, (2.7L), DOHC, GAS, FI, 24 Valve, Vin 3, 8, G6BA, ""Delta"" KIA2.7-G6BA **24**
 2002-10 V6 162 CID BORE - 86.7mm/3.41""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2002-10	10808	1.260 Head Diameter
	Exh	2002-10	10809	1.083 Head Diameter
Keeper	Both	2002-10	121-1102	1 RD Bead Type
Stem Seal	Both	2002-10	122-1366	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2002-10	140-8573	0.2360 I.D.,1.540 Length,0.4358 O.D.
	Exh	2002-10	140-8572	0.2360 I.D.,1.690 Length,0.4360 O.D.
Lifter	Both	2002-10	VL568	Hydraulic Bucket Type
Head Saver Shim		2002-10	230-2191L	Left,New Hgt. - 3.543; Min. Hgt. - 3.523
		2002-10	230-2191R	Right,New Hgt. - 3.543; Min. Hgt. - 3.523

2656cc, (2.7L), DOHC, GAS, FI, 24 Valve, Vin 4, 6, G6EA, ""Mu"" KIA2.7-G6EA **25**
 2007-10 V6 162 CID BORE - 86.7mm/3.41""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2007-10	121-1102	1 RD Bead Type
Stem Seal	Both	2007-10	122-1336	Positive Type,Viton Material,Top Hat Style

3342cc, (3.3L), DOHC, GAS, FI, 24 Valve, Vin 5, G6DB, ""Lambda"" KIA3.3-G6DB **26**
 2008-09 V6 204 CID BORE - 92mm/3.62""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2008-09	SB1500-56	1½ O.D.,1.275T I.D.,0.2500 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	2008-09	SB1312-59	1⅝ O.D.,1.044 I.D.,0.2730 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2008-09	13286	1.417 Head Diameter
	Exh	2008-09	13287	1.220 Head Diameter
Keeper	Both	2008-09	121-1060	1 RD Bead Type
Stem Seal	Both	2008-09	122-1444	Positive Type,Viton Material,Top Hat Style
Guide	Both	2008-09	140-3152	0.2168 I.D.,1.655 Length,0.4348 O.D.

3342cc, (3.3L), DOHC, GAS, FI, 24 Valve, Vin 1, 5, 7, G6DH, ""Lambda II GD"" KIA3.3-G6DH **27**
 2014-20 V6 204 CID BORE - 92mm/3.62""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2014-20	SB1500-56	1½ O.D.,1.275T I.D.,0.2500 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	2014-20	SB1312-59	1⅝ O.D.,1.044 I.D.,0.2730 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2014-14	13286	1.417 Head Diameter
	Exh	2014-20	13287	1.220 Head Diameter
Keeper	Both	2014-20	121-1060	1 RD Bead Type

KIA / PASSENGER CAR OR TRUCK (Cont'd)

27 3342cc, (3.3L), DOHC, GAS, FI, 24 Valve, Vin 1, 5, 7, G6DH, ""Lambda II
 (cont.) GDi"" KIA3.3-G6DH
 2014-20 V6 204 CID BORE - 92mm/3.62""

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	2014-20	122-1444	Positive Type,Viton Material,Top Hat Style
Guide	Both	2014-20	140-3152	0.2168 I.D.,1.655 Length,0.4348 O.D.

28 3342cc, (3.3L), DOHC, GAS, FI, 24 Valve, Vin 6, C, P ""Genesis Lambda II
 T-GDi TURBO"" KIA3.3-GENT
 2018-20 V6 204 CID BORE - 92mm/3.62""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2018-20	121-1060	1 RD Bead Type
Stem Seal	Both	2018-20	122-1444	Positive Type,Viton Material,Top Hat Style

29 3470cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin 2, 7, G6DB, ""Lambda II"" KIA3.5-G6DB
 2011-14 V6 212 CID BORE - 92mm/3.62""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2011-14	SB1500-56	1½ O.D.,1.275T I.D.,0.2500 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	2011-14	SB1312-59	1⅝ O.D.,1.044 I.D.,0.2730 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2011-14	13286	1.417 Head Diameter
	Exh	2011-14	13287	1.220 Head Diameter
Keeper	Both	2011-14	121-1060	1 RD Bead Type
Stem Seal	Both	2011-14	122-1444	Positive Type,Viton Material,Top Hat Style
Guide	Both	2011-14	140-3152	0.2168 I.D.,1.655 Length,0.4348 O.D.

30 3497cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin 1, 4, G6AU, ""Sigma"" KIA3.5-G6AU
 2002-06 V6 213 CID BORE - 93mm/3.66""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	2002-06	SB1312-64	1⅝ O.D.,1.045 I.D.,0.3160 Depth
Valve	Int	2002-06	10810	1.378 Head Diameter
	Exh	2002-06	10811	1.201 Head Diameter
Keeper	Both	2002-06	121-1031	1 RD Bead Type
Stem Seal	Both	2002-06	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2002-06	140-8193	0.2600 I.D.,1.795 Length,0.4755 O.D.,+2 O/S Available
		2002-06	340-1013BR	0.2598 I.D.,1.795 Length,0.4760 O.D.,Optional Bronze Guide
	Exh	2002-06	140-8194	0.2600 I.D.,1.990 Length,0.4755 O.D.,+2 O/S Available
		2002-06	340-1014BR	0.2598 I.D.,1.990 Length,0.4755 O.D.,Optional Bronze Guide
Lifter	Both	2002-06	VL135	Hydraulic Lash Adjuster Type

31 3778cc, (3.8L), DOHC, GAS, FI, 24 Valve, Vin 1, 3, 5, 6, G6DB, ""Lambda II"" KIA3.8-G6DB
 2006-10 V6 230 CID BORE - 96mm/3.78""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2006-10	SB1500-56	1½ O.D.,1.275T I.D.,0.2500 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	2006-10	SB1312-59	1⅝ O.D.,1.044 I.D.,0.2730 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2006-10	13286	1.417 Head Diameter
	Exh	2006-10	13287	1.220 Head Diameter
Keeper	Both	2006-10	121-1060	1 RD Bead Type
Stem Seal	Both	2006-10	122-1444	Positive Type,Viton Material,Top Hat Style

(Cont'd) **KIA / PASSENGER CAR OR TRUCK**

3778cc, (3.8L), DOHC, GAS, FI, 24 Valve, Vin 1, 3, 5, 6, G6DB, ""Lambda II"" **31**
KIA3.8-G6DB (cont.)
2006-10 V6 230 CID BORE - 96mm/3.78""

PART	YEARS	PART NO.	NOTES	
Guide	Both	2006-10	140-3152	0.2168 I.D., 1.655 Length, 0.4348 O.D.

3778cc, (3.8L), DOHC, GAS, FI, 24 Valve, Vin 3, G6DJ, ""Lamda II GDj"" **32**
KIA3.8-G6DJ
2015-16 V6 230 CID BORE - 96mm/3.78""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2015-16	13286	1.417 Head Diameter
	Exh	2015-16	13287	1.220 Head Diameter
Keeper	Exh	2015-16	121-1060	1 RD Bead Type

KOMATSU / HEAVY DUTY

Engine	Models	Line No.
3 Cylinder		
91 C.I., (1.5L), 3D84E, 1FB, 2FB, 3FB, Diesel, OHV, 6 Valve, ""Yanmar""		1
4 Cylinder		
122 C.I., (2.0L), 4D84E, 3FB, Diesel, OHV, 8 Valve, ""Yanmar""		2
169 C.I., (2.8L), 4D94E, Diesel, OHV, 8 Valve, ""Yanmar""	Industrial Forklift	3
201 C.I., (3.3L), 4D95L, Diesel, OHV, 8 Valve, ""TURBO""	Industrial 4D95L	4
201 C.I., (3.3L), 4D95LE-2A, Diesel, OHV, 8 Valve, ""TURBO""	Industrial 4D95LE-2A	5
201 C.I., (3.3L), 4D95LE-3, Diesel, OHV, 8 Valve, ""TURBO""	Industrial 4D95LE-3	6
201 C.I., (3.3L), 4D95S, Diesel, OHV, 8 Valve, ""TURBO""	Industrial 4D95S	7
201 C.I., (3.3L), S4D95L, Diesel, OHV, 8 Valve, ""TURBO""	Industrial S4D95L	8
201 C.I., (3.3L), S4D95LE, Diesel, OHV, 8 Valve, ""TURBO""	Industrial S4D95LE	9
202 C.I., (3.3L), 4D98E, Diesel, OHV, 8 Valve, ""Yanmar""	Industrial Forklift	10
239 C.I., (3.9L), S4D102E/SA4D102E, Diesel, OHV, 8 Valve, ""Cummins 4BT TURBO""		11
269 C.I., (4.4L), 4D106, Diesel, OHV, 8 Valve, ""Yanmar""		12
269 C.I., (4.4L), 4D106T, Diesel, OHV, 8 Valve, ""Yanmar TURBO""		13
495 C.I., (8.1L), KOM495, Diesel, OHV, 16 Valve, ""Cummins""		18
6 Cylinder		
299 C.I., (4.9L), 6D95L, Diesel, OHV, 12 Valve, ""TURBO""	Industrial 6D95L	14
299 C.I., (4.9L), S6D95L, Diesel, OHV, 12 Valve, ""TURBO""	Industrial S6D95L	15
299 C.I., (4.9L), SA6D95L, Diesel, OHV, 12 Valve, ""TURBO""	Industrial SA6D95L	16
359 C.I., (5.9L), S6D102E/SA6D102E/SAA6102E, Diesel, OHV, 12 Valve, ""Cummins 6BT TURBO""		17
674 C.I., (11.0L), 6D125-1, Diesel, OHV, 24 Valve, ""N/A & TURBO""		19
674 C.I., (11.0L), S6D125-1, Diesel, OHV, 24 Valve, ""N/A & TURBO""		20
674 C.I., (11.0L), SA6D125-1, Diesel, OHV, 24 Valve, ""N/A & TURBO""		21

KOMATSU / HEAVY DUTY (Cont'd)

Engine	Models	Line No.
6 Cylinder		
674 C.I., (11.0L), 6D125E-2, Diesel, OHV, 24 Valve, ""N/A & TURBO""		22
674 C.I., (11.0L), S6D125E-2, Diesel, OHV, 24 Valve, ""N/A & TURBO""		23
674 C.I., (11.0L), SA6D125E-2, Diesel, OHV, 24 Valve, ""N/A & TURBO""		24
674 C.I., (11.0L), SAA6D125E-3, Diesel, OHV, 24 Valve, ""N/A & TURBO""		25
743 C.I., (12.2L), KOM743, Diesel, OHV, 12 Valve, ""Cummins""		26
855 C.I., (14.0L), KOM855T, Diesel, OHV, 24 Valve, ""Cummins TURBO""		27
1175 C.I., (19.2L), S6D155, Diesel, OHV, 12 Valve, ""TURBO""		28
1175 C.I., (19.2L), SA6D155, Diesel, OHV, 12 Valve, ""TURBO""		29
1404 C.I., (23.0L), 6D170E, Diesel, OHV, 24 Valve, ""TURBO""		30

1 91 C.I., (1.5L), 3D84E, 1FB, 2FB, 3FB, Diesel, OHV, 6 Valve, ""Yanmar"" **3D84E**
L3 91 CID **BORE - 84mm/3.307""**

PART	PART NO.	NOTES
Valve	Int 13415	1.378 Head Diameter, OEM # M129100-11100
	Exh 13416	1.181 Head Diameter, OEM # M129100-11130
Keeper	Both 121-1138	1 SQ Bead Type, OEM # M27310-080001
Stem Seal	Int 122-1483	Positive Type, Viton Material, Metal Clad Style, OEM # M124460-11340
	Exh 122-1484	Positive Type, Viton Material, Metal Clad Style, OEM # M121400-11340
Guide	Int 140-3190	0.3158 I.D., 1.930 Length, 0.5128 O.D., OEM # M120130-11860
	Exh 140-3191	0.3158 I.D., 1.810 Length, 0.5128 O.D., OEM # M129150-11810
Spring	Both 160-1665	1.760 Length, OEM # M129795-11120

2 122 C.I., (2.0L), 4D84E, 3FB, Diesel, OHV, 8 Valve, ""Yanmar"" **4D84E**
L4 122 CID **BORE - 84mm/3.307""**

PART	PART NO.	NOTES
Valve	Int 13415	1.378 Head Diameter, OEM # M129100-11100
	Exh 13416	1.181 Head Diameter, OEM # M129100-11130
Keeper	Both 121-1138	1 SQ Bead Type, OEM # M27310-080001
Stem Seal	Int 122-1483	Positive Type, Viton Material, Metal Clad Style, OEM # M124460-11340
	Exh 122-1484	Positive Type, Viton Material, Metal Clad Style, OEM # M121400-11340
Guide	Int 140-3190	0.3158 I.D., 1.930 Length, 0.5128 O.D., OEM # M120130-11860
	Exh 140-3191	0.3158 I.D., 1.810 Length, 0.5128 O.D., OEM # M129150-11810
Spring	Both 160-1665	1.760 Length, OEM # M129795-11120

3 169 C.I., (2.8L), 4D94E, Diesel, OHV, 8 Valve, ""Yanmar"" **4D94E**
L4 169 CID **BORE - 94mm/3.701""**

PART	PART NO.	NOTES
Valve	Int 13411	1.614 Head Diameter, OEM # YM129900-11100
	Exh 13412	1.378 Head Diameter, OEM # YM129900-11110
Keeper	Both 121-1138	1 SQ Bead Type, OEM # M27310-080001
Stem Seal	Both 122-1484	Positive Type, Viton Material, Metal Clad Style, OEM # M121400-11340
Guide	Both 140-3191	0.3158 I.D., 1.810 Length, 0.5128 O.D., OEM # M129150-11810

(Cont'd) KOMATSU / HEAVY DUTY**169 C.I., (2.8L), 4D94E, Diesel, OHV, 8 Valve, ""Yanmar""**
L4 169 CID**4D94E 3**
BORE - 94mm/3.701"" (cont.)

PART		PART NO.	NOTES
Spring	Both	160-1664	1.880 Length,OEM # YM129900-11120

201 C.I., (3.3L), 4D95L, Diesel, OHV, 8 Valve, ""TURBO""
L4 201 CID**4D95L 4**
BORE - 95.0mm/3.740""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1775E-3	1.775 O.D.,1.450T I.D.,0.3330 Depth,OEM # 6207-11-1430
	Exh	SB1538E-2	1.538 O.D.,1.240T I.D.,0.2550 Depth,OEM # 6204-11-1440
Valve	Int	13383	1.728 Head Diameter,OEM # 6207-41-4110
	Exh	13384	1.492 Head Diameter,OEM # 6204-41-4210
Keeper	Both	121-1134	1 SQ Bead Type,OEM # 6204-41-4520
Stem Seal	Both	122-1472	Positive Type,Viton Material,Metal Clad Style,OEM # 6204-41-4541
Guide	Both	140-3181	0.3150 I.D.,2.040 Length,0.4740 O.D.,OEM # 6204-19-1310
Spring	Both	160-1653	2.255 Length,OEM # 6204-41-4431

201 C.I., (3.3L), 4D95LE-2A, Diesel, OHV, 8 Valve, ""TURBO""
L4 201 CID**4D95LE-2A 5**
BORE - 95.0mm/3.740""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1775E-3	1.775 O.D.,1.450T I.D.,0.3330 Depth,OEM # 6207-11-1430
	Exh	SB1538E-2	1.538 O.D.,1.240T I.D.,0.2550 Depth,OEM # 6204-11-1440
Valve	Int	13383	1.728 Head Diameter,OEM # 6207-41-4110
	Exh	13384	1.492 Head Diameter,OEM # 6204-41-4210
Keeper	Both	121-1134	1 SQ Bead Type,OEM # 6204-41-4520
Stem Seal	Both	122-1472	Positive Type,Viton Material,Metal Clad Style,OEM # 6204-41-4541
Guide	Both	140-3181	0.3150 I.D.,2.040 Length,0.4740 O.D.,OEM # 6204-19-1310
Spring	Both	160-1653	2.255 Length,OEM # 6204-41-4431

201 C.I., (3.3L), 4D95LE-3, Diesel, OHV, 8 Valve, ""TURBO""
L4 201 CID**4D95LE-3 6**
BORE - 95.0mm/3.740""

PART		PART NO.	NOTES
Valve	Int	13383	1.728 Head Diameter,OEM # 6207-41-4110
	Exh	13384	1.492 Head Diameter,OEM # 6204-41-4210
Keeper	Both	121-1134	1 SQ Bead Type,OEM # 6204-41-4520
Stem Seal	Both	122-1472	Positive Type,Viton Material,Metal Clad Style,OEM # 6204-41-4541
Guide	Both	140-3181	0.3150 I.D.,2.040 Length,0.4740 O.D.,OEM # 6204-19-1310

201 C.I., (3.3L), 4D95S, Diesel, OHV, 8 Valve, ""TURBO""
L4 201 CID**4D95S 7**
BORE - 95.0mm/3.740""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1775E-3	1.775 O.D.,1.450T I.D.,0.3330 Depth,OEM # 6207-11-1430
	Exh	SB1538E-2	1.538 O.D.,1.240T I.D.,0.2550 Depth,OEM # 6204-11-1440
Valve	Int	13383	1.728 Head Diameter,OEM # 6207-41-4110
	Exh	13384	1.492 Head Diameter,OEM # 6204-41-4210
Keeper	Both	121-1134	1 SQ Bead Type,OEM # 6204-41-4520
Stem Seal	Both	122-1472	Positive Type,Viton Material,Metal Clad Style,OEM # 6204-41-4541
Guide	Both	140-3181	0.3150 I.D.,2.040 Length,0.4740 O.D.,OEM # 6204-19-1310

KOMATSU / HEAVY DUTY (Cont'd)

8 201 C.I., (3.3L), S4D95L, Diesel, OHV, 8 Valve, ""TURBO""

S4D95L

L4 201 CID

BORE - 95.0mm/3.740""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1775E-4	1.775 O.D., 1.450R I.D., 0.3330 Depth, OEM # 6209-11-1430
	Exh	SB1539E-5	1.538 O.D., 1.240R I.D., 0.2540 Depth, OEM # 6207-11-1440
Valve	Int	13383	1.728 Head Diameter, OEM # 6207-41-4110
		13387	1.728 Head Diameter, OEM # 6209-41-4110
	Exh	13384	1.492 Head Diameter, OEM # 6204-41-4210
		13388S	1.492 Head Diameter, Stellite Face, OEM # 6209-41-4210
Keeper	Both	121-1134	1 SQ Bead Type, OEM # 6204-41-4520
Stem Seal	Both	122-1472	Positive Type, Viton Material, Metal Clad Style, OEM # 6204-41-4541
Guide	Both	140-3181	0.3150 I.D., 2.040 Length, 0.4740 O.D., OEM # 6204-19-1310
Spring	Both	160-1653	2.255 Length, OEM # 6204-41-4431

9 201 C.I., (3.3L), S4D95LE, Diesel, OHV, 8 Valve, ""TURBO""

S4D95LE

L4 201 CID

BORE - 95.0mm/3.740""

PART		PART NO.	NOTES
Valve	Int	13383	1.728 Head Diameter, OEM # 6207-41-4110
	Exh	13384	1.492 Head Diameter, OEM # 6204-41-4210
Keeper	Both	121-1134	1 SQ Bead Type, OEM # 6204-41-4520
Stem Seal	Both	122-1472	Positive Type, Viton Material, Metal Clad Style, OEM # 6204-41-4541
Guide	Both	140-3181	0.3150 I.D., 2.040 Length, 0.4740 O.D., OEM # 6204-19-1310

10 202 C.I., (3.3L), 4D98E, Diesel, OHV, 8 Valve, ""Yanmar""

4D98E

L4 202 CID

BORE - 98mm/3.858""

PART		PART NO.	NOTES
Valve	Int	13411	1.614 Head Diameter, OEM # YM129900-11100
	Exh	13412	1.378 Head Diameter, OEM # YM129900-11110
Keeper	Both	121-1138	1 SQ Bead Type, OEM # M27310-080001
Stem Seal	Both	122-1484	Positive Type, Viton Material, Metal Clad Style, OEM # M121400-11340
Guide	Both	140-3191	0.3158 I.D., 1.810 Length, 0.5128 O.D., OEM # M129150-11810
Spring	Both	160-1664	1.880 Length, OEM # YM129900-11120

11 239 C.I., (3.9L), S4D102E/SA4D102E, Diesel, OHV, 8 Valve, ""Cummins 4BT TURBO""

S4D102E

L4 239 CID

BORE - 102mm/4.015""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1853E-1	1.853 O.D., 1.498T I.D., 0.2730 Depth, OEM # 6732-11-1180
	Exh	SB1722E-1	1.722 O.D., 1.357T I.D., 0.2650 Depth, OEM # 6732-11-1170
Valve	Int	01665	1.772 Head Diameter, OEM # 6736-41-4110; W/ 30 Degree Seat
	Exh	01664	1.654 Head Diameter, OEM # 6736-41-4210; W/ 45 Degree Seat
Keeper	Both	121-1079	1 RD Bead Type, OEM # 6732-41-4520
Stem Seal	Both	122-1269	Positive Type, Viton Material, Ring & Band Style, Orange Color Seal, OEM # 6732-41-4540
		122-1365	Positive Type, Viton Material, Top Hat Style
Guide	Int	140-8177	0.3162 I.D., 2.382 Length, 0.5528 O.D.
		140-8177SA	0.3162 I.D., 2.382 Length, 0.5528 O.D., ""Special Alloy"", For Ultra Low Sulfur Diesel
	Exh	140-8178	0.3160 I.D., 2.052 Length, 0.5528 O.D.
		140-8178SA	0.3160 I.D., 2.052 Length, 0.5528 O.D., ""Special Alloy"", For Ultra Low Sulfur Diesel
Both	140-8277	0.3162 I.D., 2.500 Length, 0.4393 O.D., W/O Seal Boss, Universal Length	

(Cont'd) KOMATSU / HEAVY DUTY

239 C.I., (3.9L), S4D102E/SA4D102E, Diesel, OHV, 8 Valve, ""Cummins 4BT TURBO"" **11**
 S4D102E (cont.)
 L4 239 CID BORE - 102mm/4.015""

PART		PART NO.	NOTES
Spring	Exh	160-1650	2.875 Length, Barrel Shaped, Note: W/ Exhaust Brake, 60lbs Additional Seat Pressure.
	Both	160-1527	2.518 Length, OEM # 6732-41-4430
Lifter	Both	VL156	Mechanical Type, OEM # 6732-41-2112
Push Rod	Both	190-1530	10.910 Length, OEM # 6732-41-3111

269 C.I., (4.4L), 4D106, Diesel, OHV, 8 Valve, ""Yanmar"" **12**
 4D106
 L4 269 CID BORE - 106mm/4.173""

PART		PART NO.	NOTES
Valve	Int	13409	1.752 Head Diameter, OEM # M123900-11100
	Exh	13410	1.535 Head Diameter, OEM # M123900-11110
Keeper	Both	121-1139	1 SQ Bead Type, OEM # M27310-090001
Stem Seal	Both	122-1482	Positive Type, Viton Material, Metal Clad Style, OEM # M121850-11150
Guide	Both	140-3189	0.3545 I.D., 1.990 Length, 0.5325 O.D., OEM # M119000-11810
Spring	Both	160-1663	2.006 Length, OEM # M123900-11120

269 C.I., (4.4L), 4D106T, Diesel, OHV, 8 Valve, ""Yanmar TURBO"" **13**
 4D106T
 L4 269 CID BORE - 106mm/4.173""

PART		PART NO.	NOTES
Valve	Int	13409	1.752 Head Diameter, OEM # M123900-11100
	Exh	13410	1.535 Head Diameter, OEM # M123900-11110
Keeper	Both	121-1139	1 SQ Bead Type, OEM # M27310-090001
Stem Seal	Both	122-1482	Positive Type, Viton Material, Metal Clad Style, OEM # M121850-11150
Guide	Both	140-3189	0.3545 I.D., 1.990 Length, 0.5325 O.D., OEM # M119000-11810
Spring	Both	160-1663	2.006 Length, OEM # M123900-11120

299 C.I., (4.9L), 6D95L, Diesel, OHV, 12 Valve, ""TURBO"" **14**
 6D95L
 L6 299 CID BORE - 95.0mm/3.740""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1775E-3	1.775 O.D., 1.450T I.D., 0.3330 Depth, OEM # 6207-11-1430
	Exh	SB1538E-2	1.538 O.D., 1.240T I.D., 0.2550 Depth, OEM # 6204-11-1440
Valve	Int	13383	1.728 Head Diameter, OEM # 6207-41-4110
	Exh	13384	1.492 Head Diameter, OEM # 6204-41-4210
Keeper	Both	121-1134	1 SQ Bead Type, OEM # 6204-41-4520
Stem Seal	Both	122-1472	Positive Type, Viton Material, Metal Clad Style, OEM # 6204-41-4541
Guide	Both	140-3181	0.3150 I.D., 2.040 Length, 0.4740 O.D., OEM # 6204-19-1310

299 C.I., (4.9L), S6D95L, Diesel, OHV, 12 Valve, ""TURBO"" **15**
 S6D95L
 L6 299 CID BORE - 95.0mm/3.740""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1775E-3	1.775 O.D., 1.450T I.D., 0.3330 Depth, OEM # 6207-11-1430; NOTE; 45 Deg., Use W/ 13383
		SB1775E-4	1.775 O.D., 1.450R I.D., 0.3330 Depth, OEM # 6209-11-1430; NOTE: 30 Deg., Use W/ 13387
	Exh	SB1538E-2	1.538 O.D., 1.240T I.D., 0.2550 Depth, OEM # 6204-11-1440; NOTE: Use W/ 13384
		SB1539E-5	1.538 O.D., 1.240R I.D., 0.2540 Depth, OEM # 6207-11-1440; NOTE: Use W/ 13388S

KOMATSU / HEAVY DUTY (Cont'd)

15 299 C.I., (4.9L), S6D95L, Diesel, OHV, 12 Valve, ""TURBO"" S6D95L
 (cont.) L6 299 CID BORE - 95.0mm/3.740""

PART		PART NO.	NOTES
Valve	Int	13383	1.728 Head Diameter,OEM # 6207-41-4110; NOTE: 45 Deg., W/ Letter ""I"" In Head, Use W/ SB1775E-3
		13387	1.728 Head Diameter,OEM # 6209-41-4110; NOTE: 30 Deg., W/ Letter ""I3"" In Head, Use W/ SB1775E-4
	Exh	13384	1.492 Head Diameter,OEM # 6204-41-4210; NOTE: W/ Letter ""EX"" In Head, Use W/ SB1538E-3
		13388S	1.492 Head Diameter,Stellite Face,OEM # 6209-41-4210; NOTE: W/ Letter ""EM"" In Head, Use W/ SB1539E-5
Keeper	Both	121-1134	1 SQ Bead Type,OEM # 6204-41-4520
Stem Seal	Both	122-1472	Positive Type,Viton Material,Metal Clad Style,OEM # 6204-19-1310
Guide	Both	140-3181	0.3150 I.D.,2.040 Length,0.4740 O.D.,OEM # 6204-19-1310
Spring	Both	160-1653	2.255 Length,OEM # 6204-41-4431, W / 2.255"" Free Length

16 299 C.I., (4.9L), SA6D95L, Diesel, OHV, 12 Valve, ""TURBO"" SA6D95L
L6 299 CID BORE - 95.0mm/3.740""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1775E-4	1.775 O.D.,1.450R I.D.,0.3330 Depth,OEM # 6209-11-1430
	Both	SB1539E-5	1.538 O.D.,1.240R I.D.,0.2540 Depth,OEM # 6207-11-1440
Valve	Int	13387	1.728 Head Diameter,OEM # 6209-41-4110
	Exh	13388S	1.492 Head Diameter,Stellite Face,OEM # 6209-41-4210
Keeper	Both	121-1134	1 SQ Bead Type,OEM # 6204-41-4520
Stem Seal	Both	122-1472	Positive Type,Viton Material,Metal Clad Style,OEM # 6204-19-1310
Guide	Both	140-3181	0.3150 I.D.,2.040 Length,0.4740 O.D.,OEM # 6204-19-1310
Spring	Both	160-1653	2.255 Length,OEM # 6204-41-4431

17 359 C.I., (5.9L), S6D102E/SA6D102E/SAA6102E, Diesel, OHV, 12 Valve, ""Cummins 6BT TURBO"" S6D102E
L6 359 CID BORE - 102mm/4.015""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1853E-1	1.853 O.D.,1.498T I.D.,0.2730 Depth,OEM # 6732-11-1180
		SB1853E-2	1.853 O.D.,1.495T I.D.,0.2710 Depth,20 Degree, Natural Gas
		SB1875-8	1 ⁷ / ₈ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Head W/O OEM Seat
	Exh	SB1722E-1	1.722 O.D.,1.357T I.D.,0.2650 Depth,OEM # 6732-11-1170
		SB1722E-3	1.722 O.D.,1.382T I.D.,0.2650 Depth,20 Degree, Natural Gas
		SB1750-7	1 ³ / ₄ O.D.,1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Head W/O OEM Seat
		SB1750-8N	1 ³ / ₄ O.D.,1 ¹ / ₈ I.D., ¹ / ₄ Depth,Universal Size Seat For Head W/O OEM Seat; NOTE: Alternative Star Series Material, Seat May Need To Be Machined In Order To Achieve Correct Depth
Valve	Int	01665	1.772 Head Diameter,5.084 Overall Length, W/ 30 Degree Seat, OEM # 6736-41-4110
		02257	1.772 Head Diameter,5.085 Overall Length, W/ 20 Degree Seat, Natural Gas
	Exh	01664	1.654 Head Diameter,5.081 Overall Length, W/ 45 Degree Seat, OEM # 6736-41-4210
		01862	1.654 Head Diameter,5.081 Overall Length, W/ 20 Degree Seat, Natural Gas
Keeper	Both	121-1079	1 RD Bead Type,OEM # 6732-41-4520
Stem Seal	Both	122-1269	Positive Type,Viton Material,Ring & Band Style,Orange Color Seal,OEM # 6732-41-4540
		122-1365	Positive Type,Viton Material,Top Hat Style
Guide	Int	140-8177	0.3162 I.D.,2.382 Length,0.5528 O.D.

(Cont'd) KOMATSU / HEAVY DUTY**359 C.I., (5.9L), S6D102E/SA6D102E/SAA6102E, Diesel, OHV, 12 Valve,
"Cummins 6BT TURBO"****17**

S6D102E (cont.)

L6 359 CID

BORE - 102mm/4.015"

PART		PART NO.	NOTES
Guide	Int	140-8177SA	0.3162 I.D.,2.382 Length,0.5528 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
	Exh	140-8178	0.3160 I.D.,2.052 Length,0.5528 O.D.
		140-8178SA	0.3160 I.D.,2.052 Length,0.5528 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
	Both	140-8277	0.3162 I.D.,2.500 Length,0.4393 O.D.,W/O Seal Boss, Universal Length
Spring	Exh	160-1650	2.875 Length,Barrel Shaped,Note: W/ Exhaust Brake, 60lbs Additional Seat Pressure.
	Both	160-1527	2.518 Length,OEM # 6732-41-4430
Lifter	Both	VL156	Mechanical Type,OEM # 6732-41-2112
Push Rod	Both	190-1530	10.910 Length,OEM # 6732-41-3111
Head Saver Shim		230-2174	New Hgt. - 3.747 - 3.749; Min. Hgt. - 3.700

495 C.I., (8.1L), KOM495, Diesel, OHV, 16 Valve, "Cummins"**KOM495 18**

L4 495 CID

BORE - 130.2mm/5.125"

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1847E-1	1.846 O.D.,1 ⁹ / ₁₆ I.D., ⁹ / ₃₂ Depth,SPECIAL ORDER
Valve	Exh	00326S	1.745 Head Diameter,Stellite Face
Keeper	Both	121-1000	2 RD Bead Type
Guide	Both	140-1969	0.4050 I.D.,3.438 Length,0.7520 O.D.,Std. O.D.

674 C.I., (11.0L), 6D125-1, Diesel, OHV, 24 Valve, "N/A & TURBO"**6D125-1 19**

L6 674 CID

BORE - 125mm/4.921"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1874E-3	1.874 O.D.,1.525R I.D.,0.2950 Depth,OEM # 6151-11-1330
	Exh	SB1835E-1	1.835 O.D.,1.490R I.D.,0.2950 Depth,OEM # 6150-11-1320
Valve	Int	13385	1.776 Head Diameter,OEM # 6150-41-4111
	Exh	13386S	1.736 Head Diameter,Stellite Face,OEM # 6150-41-4210; 7.673 Overall Length
Keeper	Both	121-1135	1 RD Bead Type,OEM # 6136-42-4520
Stem Seal	Both	122-1473	Positive Type,ACM Material,Metal Clad Style,OEM # 6140-41-4540
Guide	Both	140-3183	0.3542 I.D.,2.670 Length,0.6312 O.D.,OEM # 6150-12-1351, 6150121341; Machined For Stem Seal
Spring	Both	160-1652	2.655 Length,OEM # 6150-41-4411
Injector Tubes and Components		240-1050	Copper Material,Injector Tube,OEM # 6136-11-1130

674 C.I., (11.0L), S6D125-1, Diesel, OHV, 24 Valve, "N/A & TURBO"**S6D125-1 20**

L6 674 CID

BORE - 125mm/4.921"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1874E-3	1.874 O.D.,1.525R I.D.,0.2950 Depth,OEM # 6151-11-1330
	Exh	SB1835E-1	1.835 O.D.,1.490R I.D.,0.2950 Depth,OEM # 6150-11-1320
Valve	Int	13385	1.776 Head Diameter,OEM # 6150-41-4111
	Exh	13386S	1.736 Head Diameter,Stellite Face,OEM # 6150-41-4210; 7.673 Overall Length
		13391S	1.736 Head Diameter,Stellite Face,OEM # 6150-41-4230; NOTE: HA250 / HA270 Models, 6.770 Overall Length
Keeper	Both	121-1135	1 RD Bead Type,OEM # 6136-42-4520
Stem Seal	Both	122-1473	Positive Type,ACM Material,Metal Clad Style,OEM # 6140-41-4540

KOMATSU / HEAVY DUTY (Cont'd)

20 674 C.I., (11.0L), S6D125-1, Diesel, OHV, 24 Valve, ""N/A & TURBO"" S6D125-1
(cont.) L6 674 CID BORE - 125mm/4.921""

PART		PART NO.	NOTES
Guide	Both	140-3183	0.3542 I.D.,2.670 Length,0.6312 O.D.,OEM # 6150-12-1351, 6150121341; Machined For Stem Seal
Spring	Int	160-1651	2.440 Length,OEM # 6150-41-4420
	Exh	160-1652	2.655 Length,OEM # 6150-41-4411; NOTE: Intake And Exhaust For Models D65EX / PX-12
Injector Tubes and Components		240-1050	Copper Material,Injector Tube,OEM # 6136-11-1130

21 674 C.I., (11.0L), SA6D125-1, Diesel, OHV, 24 Valve, ""N/A & TURBO"" SA6D125-1
L6 674 CID BORE - 125mm/4.921""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1874E-3	1.874 O.D.,1.525R I.D.,0.2950 Depth,OEM # 6151-11-1330
	Exh	SB1835E-1	1.835 O.D.,1.490R I.D.,0.2950 Depth,OEM # 6150-11-1320
Valve	Int	13385	1.776 Head Diameter,OEM # 6150-41-4111
	Exh	13386S	1.736 Head Diameter,Stellite Face,OEM # 6150-41-4210; 7.673 Overall Length
Keeper	Both	121-1135	1 RD Bead Type,OEM # 6136-42-4520
Stem Seal	Both	122-1473	Positive Type,ACM Material,Metal Clad Style,OEM # 6140-41-4540
Guide	Both	140-3183	0.3542 I.D.,2.670 Length,0.6312 O.D.,OEM # 6150-12-1351, 6150121341; Machined For Stem Seal
Spring	Int	160-1651	2.440 Length,OEM # 6150-41-4420
	Exh	160-1652	2.655 Length,OEM # 6150-41-4411
Injector Tubes and Components		240-1050	Copper Material,Injector Tube,OEM # 6136-11-1130

22 674 C.I., (11.0L), 6D125E-2, Diesel, OHV, 24 Valve, ""N/A & TURBO"" 6D125E-2
L6 674 CID BORE - 125mm/4.921""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1874E-3	1.874 O.D.,1.525R I.D.,0.2950 Depth,OEM # 6151-11-1330
	Exh	SB1835E-1	1.835 O.D.,1.490R I.D.,0.2950 Depth,OEM # 6150-11-1320
Valve	Int	13389	1.776 Head Diameter,OEM # 6150-42-4110
	Exh	13390S	1.736 Head Diameter,Stellite Face,OEM # 6150-42-4210
Keeper	Both	121-1135	1 RD Bead Type,OEM # 6136-42-4520
Stem Seal	Both	122-1474	Positive Type,Viton Material,Metal Clad Style,OEM # 6150-41-4570
Guide	Both	140-3184	0.3540 I.D.,2.670 Length,0.6312 O.D.,Spiral I.D.Toward Combustion,OEM # 6150-12-1370
Injector Tubes and Components		240-1050	Copper Material,Injector Tube,OEM # 6136-11-1130

23 674 C.I., (11.0L), S6D125E-2, Diesel, OHV, 24 Valve, ""N/A & TURBO"" S6D125E-2
L6 674 CID BORE - 125mm/4.921""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1874E-3	1.874 O.D.,1.525R I.D.,0.2950 Depth,OEM # 6151-11-1330
	Exh	SB1835E-1	1.835 O.D.,1.490R I.D.,0.2950 Depth,OEM # 6150-11-1320
Valve	Int	13389	1.776 Head Diameter,OEM # 6150-42-4110
	Exh	13390S	1.736 Head Diameter,Stellite Face,OEM # 6150-42-4210
Keeper	Both	121-1135	1 RD Bead Type,OEM # 6136-42-4520
Stem Seal	Both	122-1474	Positive Type,Viton Material,Metal Clad Style,OEM # 6150-41-4570
Guide	Both	140-3184	0.3540 I.D.,2.670 Length,0.6312 O.D.,Spiral I.D.Toward Combustion,OEM # 6150-12-1370

(Cont'd) KOMATSU / HEAVY DUTY

674 C.I., (11.0L), S6D125E-2, Diesel, OHV, 24 Valve, ""N/A & TURBO"" S6D125E-2 **23**
 L6 674 CID BORE - 125mm/4.921"" (cont.)

PART		PART NO.	NOTES
Injector Tubes and Components		240-1050	Copper Material,Injector Tube,OEM # 6136-11-1130

674 C.I., (11.0L), SA6D125E-2, Diesel, OHV, 24 Valve, ""N/A & TURBO"" SA6D125E-2 **24**
 L6 674 CID BORE - 125mm/4.921""

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1874E-4N SB1835E-1	1.874 O.D.,1.525R I.D.,0.2950 Depth,OEM # 6150-12-1380 1.835 O.D.,1.490R I.D.,0.2950 Depth,OEM # 6150-11-1320
Valve	Int Exh	13389 13390S	1.776 Head Diameter,OEM # 6150-42-4110 1.736 Head Diameter,Stellite Face,OEM # 6150-42-4210
Keeper	Both	121-1135	1 RD Bead Type,OEM # 6136-42-4520
Stem Seal	Both	122-1474	Positive Type,Viton Material,Metal Clad Style,OEM # 6150-41-4570
Guide	Both	140-3184	0.3540 I.D.,2.670 Length,0.6312 O.D.,Spiral I.D.Toward Combustion,OEM # 6150-12-1370
Injector Tubes and Components		240-1050	Copper Material,Injector Tube,OEM # 6136-11-1130

674 C.I., (11.0L), SAA6D125E-3, Diesel, OHV, 24 Valve, ""N/A & TURBO"" SAA6D125E-3 **25**
 L6 674 CID BORE - 125mm/4.921""

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1874E-4N SB1835E-1	1.874 O.D.,1.525R I.D.,0.2950 Depth,OEM # 6150-12-1380 1.835 O.D.,1.490R I.D.,0.2950 Depth,OEM # 6150-11-1320
Valve	Int Exh	13389 13390S	1.776 Head Diameter,OEM # 6150-42-4110 1.736 Head Diameter,Stellite Face,OEM # 6150-42-4210
Keeper	Both	121-1135	1 RD Bead Type,OEM # 6136-42-4520
Stem Seal	Both	122-1474	Positive Type,Viton Material,Metal Clad Style,OEM # 6150-41-4570
Guide	Both	140-3184	0.3540 I.D.,2.670 Length,0.6312 O.D.,Spiral I.D.Toward Combustion,OEM # 6150-12-1370
Injector Tubes and Components		240-1050	Copper Material,Injector Tube,OEM # 6136-11-1130

743 C.I., (12.2L), KOM743, Diesel, OHV, 12 Valve, ""Cummins"" KOM743 **26**
 L6 743 CID BORE - 130.2mm/5.125""

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1847E-1	1.846 O.D.,1 ¹ / ₁₆ I.D., ³ / ₃₂ Depth,SPECIAL ORDER
Valve	Exh	00326S	1.745 Head Diameter,Stellite Face
Keeper	Both	121-1000	2 RD Bead Type
Stem Seal	Both	122-1014	Positive Type,Tef/Rub Material,1-Ring Style
Guide	Both	140-1969	0.4050 I.D.,3.438 Length,0.7520 O.D.,Std. O.D.

855 C.I., (14.0L), KOM855T, Diesel, OHV, 24 Valve, ""Cummins TURBO"" KOM855_T **27**
 L6 855 CID BORE - 139.7mm/5.50""

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB2003E-1 SB2003E-1N SB2006E-1	2.003 O.D.,1 ¹ / ₁₆ I.D., ³ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material,OEM Replacement, OEM # 3017759 2.003 O.D.,1 ¹ / ₁₆ I.D., ³ / ₃₂ Depth,OEM # 127930, OEM Replacement for Turbo & High Heat Applications, Non-Magnetic 2.006 O.D.,1 ¹ / ₁₆ I.D., ³ / ₃₂ Depth,+5, +10, +20 & +30 O/S Available, Also Available In Non-Magnetic (N) Material,OEM # 3032285, +3 Additional Press Fit Over OEM Replacement

KOMATSU / HEAVY DUTY (Cont'd)

27 855 C.I., (14.0L), KOM855T, Diesel, OHV, 24 Valve, ""Cummins TURBO"" KOM855_T
 (cont.) L6 855 CID BORE - 139.7mm/5.50""

PART	PART NO.	NOTES
Valve Seat Insert	Both	SB2006E-1N 2.006 O.D., 1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, +5, +10, +20 O/S Available, OEM #127930, Turbo & High Heat Application
		SB2006E-5 2.006 O.D., 1.690 I.D., 0.2140 Depth, +10, +20 & +30 O/S Available, 1988 Big Cam IV, 91N14, OEM # 3054590 & 3054600
		SB2006E-6C 2.006 O.D., 1.630 I.D., 0.2800 Depth, OEM # 80610016 & 90210014, Stellite Material, Can Be Used W/ Natural Gas 15 & 20 Degree Valve
Valve	Int	00603 1.870 Head Diameter, Letter ""O"" in Head, Non Stellite Faced, OEM #135957
	Exh	00602S 1.870 Head Diameter, Stellite Face, W/ Letter ""S"" or ""J"" In Head, OEM # 145701
	Both	00602 1.870 Head Diameter, Letter ""N"" In Head, Late Style OEM # 3040830
Keeper	Both	121-1006 2 RD Bead Type
Stem Seal	Both	122-1362 Positive Type, Viton Material, Ring & Spring Style, Cummins OEM # 156641, Use W/ 140-6452 Guide
Guide	Both	140-6452 0.4528 I.D., 3.195 Length, 0.7520 O.D., Machined For Seal; W/ Oil Relief Hole In Guide Wall
		140-7264 0.4530 I.D., 3.400 Length, 0.7620 O.D., +.010 O.D.
		140-7994 0.4530 I.D., 3.400 Length, 0.7518 O.D., +2 O/S Available, Current OEM # 3006456 W/O Sharp Top Edge & Replaces Earlier OEM # 3050369 W/ Sharp Top Edge
		140-7994SA 0.4530 I.D., 3.400 Length, 0.7518 O.D., ""Special Alloy"", For Ultra Low Sulfur Diesel
Spring	Both	160-1177 2.685 Length, W/O Exhaust Brake, Do Not Use W/ Old Spring Under The Same Cross Head. OEM # 211999
		160-1305 2.635 Length, OEM # 3035996 & 3081212 Big Cam IV Only
Rocker Components	Both	187-1051 Roll Pin, OEM # 118939, Big Cam I, II, III
		187-1062 Valve Roller Pin, OEM # 3013331, Big Cam I, II, III
		187-1052 Bridge Guide, OEM # 123558, Big Cam I, II, III
		187-1067 Injector Cam Roller, OEM # 3036934, Big Cam I, II, III
		187-1068 Injector Cam Roller, OEM # 3062096, Small Cam
Injector Tubes and Components		240-1009 Copper Material, Injector Tube, Thin Nose, OEM # 3011934, 3070486
		240-1009R Viton Material, O-Ring, Black, OEM # 196641, 3007759
		240-1010 Copper Material, Injector Tube, Heavy Nose, OEM # 3011935, 3071147

28 1175 C.I., (19.2L), S6D155, Diesel, OHV, 12 Valve, ""TURBO"" S6D155
 L6 1175 CID BORE - 155mm/6.102""

PART	PART NO.	NOTES
Guide	Both	140-8160 0.4335 I.D., 3.350 Length, 0.7100 O.D.

29 1175 C.I., (19.2L), SA6D155, Diesel, OHV, 12 Valve, ""TURBO"" SA6D155
 L6 1175 CID BORE - 155mm/6.102""

PART	PART NO.	NOTES
Guide	Both	140-8160 0.4335 I.D., 3.350 Length, 0.7100 O.D.

30 1404 C.I., (23.0L), 6D170E, Diesel, OHV, 24 Valve, ""TURBO"" 6D170E
 L6 1404 CID BORE - 170.0mm/6.693""

PART	PART NO.	NOTES
Valve	Int	13447 2.402 Head Diameter, W/ Letters ""IN"" In Head
	Exh	13448S 2.323 Head Diameter, Stellite Face, W/ Letter ""E"" In Head

KUBOTA / INDUSTRIAL

Engine	Models	Line No.
3 Cylinder		
55 C.I., (0.9L), D905, Diesel, OHV, 6 Valve		1
69 C.I., (1.1L), D1105, Diesel, OHV, 6 Valve		2
77 C.I., (1.3L), D1305, Diesel, OHV, 6 Valve		5
85 C.I., (1.4L), D1403, Diesel, OHV, 6 Valve		6
101 C.I., (1.6L), D1703, Diesel, OHV, 6 Valve		7
4 Cylinder		
70 C.I., (1.2L), V1100, Diesel, OHV, 8 Valve		3
75 C.I., (1.2L), V1200B, Diesel, OHV, 8 Valve		4
106 C.I., (1.7L), V1702, Diesel, OHV, 8 Valve		8
106 C.I., (1.7L), V1702B, Diesel, OHV, 8 Valve		9
114 C.I., (1.9L), V1902, Diesel, OHV, 8 Valve		10
114 C.I., (1.9L), V1902B, Diesel, OHV, 8 Valve		11
114 C.I., (1.9L), V1903, Diesel, OHV, 8 Valve		12
122 C.I., (2.0L), V2003, Diesel, OHV, 8 Valve, ""TURBO""		13
134 C.I., (2.2L), V2203, Diesel, OHV, 8 Valve		14
134 C.I., (2.2L), V2203B, Diesel, OHV, 8 Valve		15
202 C.I., (3.3L), V3300, Diesel, OHV, 12 Valve		16
230 C.I., (3.8L), V3800, Diesel, OHV, 12 Valve		17
55 C.I., (0.9L), D905, Diesel, OHV, 6 Valve		1
L3 55 CID	D905	
	BORE - 72.01mm/2.835""	
PART	PART NO.	NOTES
Stem Seal	Both 122-1375	Positive Type,Viton Material,Metal Clad Style,OEM # 1C010-13150
69 C.I., (1.1L), D1105, Diesel, OHV, 6 Valve		2
L3 69 CID	D1105	
	BORE - 78.01mm/3.071""	
PART	PART NO.	NOTES
Stem Seal	Both 122-1375	Positive Type,Viton Material,Metal Clad Style,OEM # 1C010-13150
70 C.I., (1.2L), V1100, Diesel, OHV, 8 Valve		3
L4 70 CID	V1100	
	BORE - 72mm/2.835""	
PART	PART NO.	NOTES
Valve	Exh 13021	1.084 Head Diameter,OEM # 15393-1312-0
75 C.I., (1.2L), V1200B, Diesel, OHV, 8 Valve		4
L4 75 CID	V1200B	
	BORE - 75mm/2.953""	
PART	PART NO.	NOTES
Valve	Exh 13021	1.084 Head Diameter,OEM # 15393-1312-0
Stem Seal	Both 122-1375	Positive Type,Viton Material,Metal Clad Style,OEM # 15261-1315-0, NOTE: Aftermarket Metal Clad Design
Guide	Int 140-3103	0.2760 I.D.,1.575 Length,0.4341 O.D.,OEM # 15261-1354-0
	Exh 140-3104	0.2760 I.D.,1.575 Length,0.4341 O.D.,W/ Counterbore,OEM # 15261-1356-0
Spring	Both 160-1495	1.397 Length,OEM # 15261-1324-0
77 C.I., (1.3L), D1305, Diesel, OHV, 6 Valve		5
L3 77 CID	D1305	
	BORE - 78.0mm/3.07""	
PART	PART NO.	NOTES
Stem Seal	Both 122-1375	Positive Type,Viton Material,Metal Clad Style,OEM # 1C010-13150

KUBOTA / INDUSTRIAL (Cont'd)

6 85 C.I., (1.4L), D1403, Diesel, OHV, 6 Valve D1403
L3 85 CID BORE - 80mm/3.1511"

PART		PART NO.	NOTES
Guide	Int	140-8347	0.3140 I.D., 1.890 Length, 0.5160 O.D., W/O Flange, +2 O/S Available, OEM # 15221-1358-0
	Exh	140-8348	0.3145 I.D., 1.850 Length, 0.5158 O.D., W/ Counterbore, W/O Flange, +2 O/S Available, OEM # 15221-1356-0

7 101 C.I., (1.6L), D1703, Diesel, OHV, 6 Valve D1703
L3 101 CID BORE - 87mm/3.4311"

PART		PART NO.	NOTES
Guide	Int	140-8347	0.3140 I.D., 1.890 Length, 0.5160 O.D., W/O Flange, +2 O/S Available, OEM # 15221-1356-0
	Exh	140-8348	0.3145 I.D., 1.850 Length, 0.5158 O.D., W/ Counterbore, W/O Flange, +2 O/S Available, OEM # 15221-1356-0

8 106 C.I., (1.7L), V1702, Diesel, OHV, 8 Valve V1702
L4 106 CID BORE - 82mm/3.22911"

PART		PART NO.	NOTES
Valve	Int	13022	1.299 Head Diameter, OEM # 15221-1311-0
	Exh	13023	1.063 Head Diameter, OEM # 15221-1312-0
Keeper	Both	121-1123	1 RD Bead Type, OEM #'s 15221-1336-0, 15221-1398-0
Stem Seal	Both	122-1372	Positive Type, Viton Material, Metal Clad Style, OEM # 15221-1315-0, 15221-1315-3
Guide	Int	140-8347	0.3140 I.D., 1.890 Length, 0.5160 O.D., W/O Flange, +2 O/S Available, OEM # 15221-1358-0
	Exh	140-8348	0.3145 I.D., 1.850 Length, 0.5158 O.D., W/ Counterbore, W/O Flange, +2 O/S Available, OEM # 15221-1356-0
Spring	Both	160-1493	1.668 Length, OEM # 15221-1324-0

9 106 C.I., (1.7L), V1702B, Diesel, OHV, 8 Valve V1702B
L4 106 CID BORE - 82mm/3.22911"

PART		PART NO.	NOTES
Valve	Int	13022	1.299 Head Diameter, OEM # 15221-1311-0
	Exh	13023	1.063 Head Diameter, OEM # 15221-1312-0
Keeper	Both	121-1123	1 RD Bead Type, OEM #'s 15221-1336-0, 15221-1398-0
Stem Seal	Both	122-1372	Positive Type, Viton Material, Metal Clad Style, OEM # 15221-1315-0, 15221-1315-3
Guide	Int	140-8347	0.3140 I.D., 1.890 Length, 0.5160 O.D., W/O Flange, +2 O/S Available, OEM # 15221-1358-0
	Exh	140-8348	0.3145 I.D., 1.850 Length, 0.5158 O.D., W/ Counterbore, W/O Flange, +2 O/S Available, OEM # 15221-1356-0
Spring	Both	160-1493	1.668 Length, OEM # 15221-1324-0

10 114 C.I., (1.9L), V1902, Diesel, OHV, 8 Valve V1902
L4 114 CID BORE - 85mm/3.34711"

PART		PART NO.	NOTES
Valve	Int	13022	1.299 Head Diameter, OEM # 15221-1311-0
	Exh	13023	1.063 Head Diameter, OEM # 15221-1312-0
Keeper	Both	121-1123	1 RD Bead Type, OEM #'s 15221-1336-0, 15221-1398-0
Stem Seal	Both	122-1372	Positive Type, Viton Material, Metal Clad Style, OEM # 15221-1315-0, 15221-1315-3
Guide	Int	140-8347	0.3140 I.D., 1.890 Length, 0.5160 O.D., W/O Flange, +2 O/S Available, OEM # 15221-1358-0

(Cont'd) KUBOTA / INDUSTRIAL**114 C.I., (1.9L), V1902, Diesel, OHV, 8 Valve****V1902 10**

L4 114 CID

BORE - 85mm/3.347" (cont.)

PART		PART NO.	NOTES
Guide	Exh	140-8348	0.3145 I.D.,1.850 Length,0.5158 O.D.,W/ Counterbore, W/O Flange, +2 O/S Available,OEM # 15221-1356-0
	Both	160-1493	1.668 Length,OEM # 15221-1324-0

114 C.I., (1.9L), V1902B, Diesel, OHV, 8 Valve**V1902B 11**

L4 114 CID

BORE - 85mm/3.347"

PART		PART NO.	NOTES
Valve	Int	13022	1.299 Head Diameter,OEM # 15221-1311-0
	Exh	13023	1.063 Head Diameter,OEM # 15221-1312-0
Keeper	Both	121-1123	1 RD Bead Type,OEM #'s 15221-1336-0, 15221-1398-0
Stem Seal	Both	122-1372	Positive Type,Viton Material,Metal Clad Style,OEM # 15221-1315-0, 15221-1315-3
Guide	Int	140-8347	0.3140 I.D.,1.890 Length,0.5160 O.D.,W/O Flange, +2 O/S Available,OEM # 15221-1358-0
	Exh	140-8348	0.3145 I.D.,1.850 Length,0.5158 O.D.,W/ Counterbore, W/O Flange, +2 O/S Available,OEM # 15221-1356-0
Spring	Both	160-1493	1.668 Length,OEM # 15221-1324-0

114 C.I., (1.9L), V1903, Diesel, OHV, 8 Valve**V1903 12**

L4 114 CID

BORE - 80mm/3.15"

PART		PART NO.	NOTES
Guide	Int	140-8347	0.3140 I.D.,1.890 Length,0.5160 O.D.,W/O Flange, +2 O/S Available,OEM # 15221-1358-0
	Exh	140-8348	0.3145 I.D.,1.850 Length,0.5158 O.D.,W/ Counterbore, W/O Flange, +2 O/S Available,OEM # 15221-1356-0

122 C.I., (2.0L), V2003, Diesel, OHV, 8 Valve, ""TURBO""**V2003 13**

L4 122 CID

BORE - 83mm/3.27"

PART		PART NO.	NOTES
Valve	Int	13024	1.320 Head Diameter,OEM # 16484-1311-0
	Exh	13028	1.122 Head Diameter,OEM # 16419-1312-5
Keeper	Both	121-1123	1 RD Bead Type,OEM #'s 15221-1336-0, 15221-1398-0
Stem Seal	Both	122-1372	Positive Type,Viton Material,Metal Clad Style,OEM # 15221-1315-0, 15221-1315-3
Guide	Int	140-8347	0.3140 I.D.,1.890 Length,0.5160 O.D.,W/O Flange, +2 O/S Available,OEM # 15221-1358-0
	Exh	140-8348	0.3145 I.D.,1.850 Length,0.5158 O.D.,W/ Counterbore, W/O Flange, +2 O/S Available,OEM # 15221-1356-0
Spring	Both	160-1493	1.668 Length,OEM # 15221-1324-0

134 C.I., (2.2L), V2203, Diesel, OHV, 8 Valve**V2203 14**

L4 134 CID

BORE - 87mm/3.43"

PART		PART NO.	NOTES
Valve	Int	13024	1.320 Head Diameter,OEM # 16484-1311-0
	Exh	13025	1.122 Head Diameter,OEM # 16484-1312-0
Keeper	Both	121-1123	1 RD Bead Type,OEM #'s 15221-1336-0, 15221-1398-0
Stem Seal	Both	122-1372	Positive Type,Viton Material,Metal Clad Style,OEM # 15221-1315-0, 15221-1315-3
Guide	Int	140-8347	0.3140 I.D.,1.890 Length,0.5160 O.D.,W/O Flange, +2 O/S Available,OEM # 15221-1358-0
	Exh	140-8348	0.3145 I.D.,1.850 Length,0.5158 O.D.,W/ Counterbore, W/O Flange, +2 O/S Available,OEM # 15221-1356-0

KUBOTA / INDUSTRIAL (Cont'd)

14 134 C.I., (2.2L), V2203, Diesel, OHV, 8 Valve V2203
 (cont.) L4 134 CID BORE - 87mm/3.43"

PART	PART NO.	NOTES
Spring	Both 160-1493	1.668 Length,OEM # 15221-1324-0

15 134 C.I., (2.2L), V2203B, Diesel, OHV, 8 Valve V2203B
 L4 134 CID BORE - 87mm/3.43"

PART	PART NO.	NOTES
Valve	Int 13024 Exh 13025	1.320 Head Diameter,OEM #'s 16415-13110, 16484-13110 1.122 Head Diameter,OEM #'s 16415-13120, 16484-13120
Keeper	Both 121-1123	1 RD Bead Type,OEM #'s 15221-1336-0, 15221-1398-0
Stem Seal	Both 122-1372	Positive Type,Viton Material,Metal Clad Style,OEM # 15221-1315-0, 15221-1315-3
Guide	Int 140-8347 Exh 140-8348	0.3140 I.D.,1.890 Length,0.5160 O.D.,W/O Flange, +2 O/S Available,OEM # 15221-1358-0 0.3145 I.D.,1.850 Length,0.5158 O.D.,W/ Counterbore, W/O Flange, +2 O/S Available,OEM # 15221-1356-0
Spring	Both 160-1493	1.668 Length,OEM # 15221-1324-0

16 202 C.I., (3.3L), V3300, Diesel, OHV, 12 Valve V3300
 L4 202 CID BORE - 98mm/3.858"

PART	PART NO.	NOTES
Stem Seal	Both 122-1375	Positive Type,Viton Material,Metal Clad Style,OEM# 1C010-13150
Spring	Both 160-1493	1.668 Length,OEM# 15221-1324

17 230 C.I., (3.8L), V3800, Diesel, OHV, 12 Valve V3800
 L4 230 CID BORE - 86.28mm/3.937"

PART	PART NO.	NOTES
Stem Seal	Both 122-1375	Positive Type,Viton Material,Metal Clad Style,OEM# 1C010-13150
Spring	Both 160-1493	1.668 Length,OEM# 15221-1324

LAND ROVER / PASSENGER TRUCK

Engine	Models	Line No.
4 Cylinder		
122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin G, H, ""Ford EcoBoost TURBO"" (2012-17)	Discovery Sport, LR2, Range Rover Evoque	1
6 Cylinder		
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin P, V, ""Supercharged"" (2014-20)	Discovery, LR4, Range Rover, Range Rover Sport, Range Rover Velar	2
245 C.I., (4.0L), SOHC, GAS, FI, 12 Valve, Vin 4 (2005-09)	LR3	3
8 Cylinder		
5000cc, (5.0L), DOHC, GAS, FI, 32 Valve, Vin E, ""Supercharged"" (2017-21)	Range Rover, Range Rover Sport, Range Rover Velar	4

1 122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin G, H, ""Ford EcoBoost TURBO"" LRV-2.0
 2012-17 L4 122 CID BORE - 87.5mm/3.44"

PART	YEARS	PART NO.	NOTES
Keeper	Both 2012-17	121-1104	1 RD Bead Type
Stem Seal	Int 2012-17 Exh 2012-17	122-1410 122-1411	Positive Type,Viton Material,Top Hat Style Positive Type,Viton Material,Top Hat Style
Spring	Both 2012-17	160-1684	1.877 Length,Conical, W/ White Stripe,OEM # LR031531

(Cont'd) **LAND ROVER / PASSENGER TRUCK**

2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin P, V, ""Supercharged"" LRV-3.0PV **2**
2014-20 V6 183 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2014-19	121-1104	1 RD Bead Type

245 C.I., (4.0L), SOHC, GAS, FI, 12 Valve, Vin 4 LRV-4.0 **3**
2005-09 V6 245 CID BORE - 100.3mm/3.95""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2005-09	SB1875-50	1 $\frac{7}{8}$ O.D., 1.640 I.D., 0.2800 Depth, Note: Seat May Need To Be Machined In Order To Achieve Correct Depth
	Exh	2005-09	SB1625-54	1 $\frac{5}{8}$ O.D., 1.329 I.D., 0.2800 Depth
Valve	Int	2005-09	01913	1.811 Head Diameter
	Exh	2005-09	01914	1.535 Head Diameter
Keeper	Both	2005-09	121-1084	3 RD Bead Type
Stem Seal	Both	2005-09	122-1348	Positive Type, Viton Material, Top Hat Style
Guide	Both	2005-09	140-8663	0.2761 I.D., 1.740 Length, 0.4724 O.D., W/ Snap Ring
Spring	Both	2005-09	160-1504	1.696 Length
Lifter	Both	2005-09	VL176	Hydraulic Lash Adjuster Type
Rocker Components	Both	2005-09	180-1325	Roller Cam Follower
Head Bolt Set		2005-09	220-1106	Torque To Yield, Services Engine

5000cc, (5.0L), DOHC, GAS, FI, 32 Valve, Vin E, ""Supercharged"" LRV-5.0SC **4**
2017-21 V8 305 CID BORE - 92.5mm/3.64""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2017-19	121-1104	1 RD Bead Type

LEXUS / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
1798cc, (1.8L), DOHC, ELECTRIC/GAS, FI, 16 Valve, 2ZR-FXE, ""Hybrid"" (2011-17)	CT200h	1
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, 8AR-FTS, ""TURBO"" (2015-21)	GS200t, GS300, IS200t, IS300, NX200t, NX300, RC200t, RC300	2
2362cc, (2.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, 2AZ-FXE ""Hybrid"" (2010-12)	HS250h	3
2494cc, (2.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, 2AR-FXE, ""Hybrid"" (2013-21)	ES300h, NX300h	4
6 Cylinder		
2499cc, (2.5L), DOHC, GAS, FI, 24 Valve, 4GR-FSE (2006-15)	IS250	5
2508cc, (2.5L), DOHC, GAS, FI, 24 Valve, Vin V, 2VZ-FE (1990-91)	ES250	6
2959cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin V, 3VZ-FE (1992-93)	ES300	7
2994cc, (3.0L), DOHC, GAS, FI, 24 Valve, 3GR-FSE (2006-06)	GS300	8
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin G, 1MZ-FE (1994-03)	ES300, RX300	9
2997cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin D, J, 2JZ-GE (1992-05)	GS300, IS300, SC300	10
3300cc, (3.3L), DOHC, ELECTRIC/GAS, FI, 24 Valve, 3MZ-FE, ""Hybrid"" (2004-08)	ES330, RX330, RX400h Hybrid	11

LEXUS / PASSENGER CAR OR TRUCK (Cont'd)

Engine	Models	Line No.
6 Cylinder		
3445cc, (3.5L), DOHC, GAS, FI, 24 Valve, V35A-FTS, ""TURBO"" (2018-21)	LS500	12
3456cc, (3.5L), DOHC, ELECTRIC/GAS, GAS, FI, 24 Valve, 2GR-FSE, ""Hybrid"" (2006-17)	GS350, GS450h, IS300, IS350, RC300, RC350	13
3456cc, (3.5L), DOHC, GAS, FI, 24 Valve, 2GR-FE (2007-18)	ES350	14
3456cc, (3.5L), DOHC, ELECTRIC/GAS, FI, 24 Valve, 2GR-FXE, ""Hybrid"" (2010-18)	GS450h, RX450h	15
3456cc, (3.5L), DOHC, ELECTRIC/GAS, FI, 24 Valve, 2GR-FXS, ""Hybrid"" (2016-21)	RX450h, RX450hL	16
3456cc, (3.5L), DOHC, ELECTRIC/GAS, FI, 24 Valve, 8GR-FXS, ""Hybrid"" (2018-21)	LC500h, LS500h	17
4477cc, (4.5L), DOHC, GAS, FI, 24 Valve, Vin J, 1FZ-FE (1996-97)	LX450	20

8 Cylinder		
3969cc, (4.0L), DOHC, GAS, FI, 32 Valve, Vin H, U, 1UZ-FE (1990-00)	GS400, LS400, SC400	18
4293cc, (4.3L), DOHC, GAS, FI, 32 Valve, 3UZ-FE (2001-10)	GS430, LS430, SC430	19
4608cc, (4.6L), DOHC, GAS, FI, 32 Valve, 1UR-FE (2010-21)	GX460	21
4608cc, (4.6L), DOHC, GAS, FI, 32 Valve, 1UR-FSE (2007-17)	GS460, LS460	22
4663cc, (4.7L), DOHC, GAS, FI, 32 Valve, 2UZ-FE (1998-09)	GX470, LX470	23
4968cc, (5.0L), DOHC, ELECTRIC/GAS, FI, 32 Valve, 2UR-FSE, ""Hybrid"" (2008-16)	LS600h	24
4969cc, (5.0L), DOHC, GAS, FI, 32 Valve, 2UR-GSE (2008-21)	GS F, IS F, LC500, RC F	25
5663cc, (5.7L), DOHC, GAS, FI, 32 Valve, 3UR-FE, ""i-Force"" (2008-21)	LX570	26

1 1798cc, (1.8L), DOHC, ELECTRIC/GAS, FI, 16 Valve, 2ZR-FXE, ""Hybrid"" LEX_2ZR-FXE
 2011-17 L4 110 CID BORE - 80.5mm/3.17""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2011-17	13365	1.260 Head Diameter
	Exh	2011-17	13366	1.084 Head Diameter
Keeper	Both	2011-17	121-1100	1 RD Bead Type
Stem Seal	Int	2011-17	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2011-17	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2011-17	140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh	2011-17	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

2 1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, 8AR-FTS, ""TURBO"" LEX_8AR-FTS
 2015-21 L4 122 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2015-20	121-1100	1 RD Bead Type

3 2362cc, (2.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, 2AZ-FXE ""Hybrid"" LEX_2AZ-FXE
 2010-12 L4 144 CID BORE - 88.5mm/3.48""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2010-12	10798	1.339 Head Diameter
	Exh	2010-12	10799	1.161 Head Diameter
Keeper	Both	2010-12	121-1100	1 RD Bead Type

(Cont'd) **LEXUS / PASSENGER CAR OR TRUCK**

2362cc, (2.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, 2AZ-FXE ""Hybrid"" LEX_2AZ-FXE 3
2010-12 L4 144 CID BORE - 88.5mm/3.48"" (cont.)

PART	YEARS	PART NO.	NOTES	
Stem Seal	Int	2010-12	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2010-12	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2010-12	140-8585	0.2175 I.D.,1.590 Length,0.4075 O.D.
Head Saver Shim		2010-12	230-2143	New Hgt. - 5.090; Min. Hgt. - N/A

2494cc, (2.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, 2AR-FXE, ""Hybrid"" LEX_2AR-FXE 4
2013-21 L4 152 CID BORE - 90mm/3.54""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2013-20	121-1100	1 RD Bead Type
	Int	2013-20	122-1266	Positive Type,Viton Material,Metal Clad Style
Stem Seal	Exh	2013-20	122-1282	Positive Type,Viton Material,Metal Clad Style
	Int	2013-20	140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
Guide	Exh	2013-20	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

2499cc, (2.5L), DOHC, GAS, FI, 24 Valve, 4GR-FSE LEX_4GR-FSE 5
2006-15 V6 152 CID BORE - 83mm/3.27""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	2006-15	SB1288E-1	1.288 O.D.,1.107T I.D.,0.2580 Depth,+30 O/S Available
Valve	Exh	2013-15	13087	1.260 Head Diameter,2013-15 Base; '14-15 F Sport
Keeper	Both	2006-15	121-1100	1 RD Bead Type
Stem Seal	Int	2006-15	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2006-15	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Exh	2006-15	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

2508cc, (2.5L), DOHC, GAS, FI, 24 Valve, Vin V, 2VZ-FE LEX_2VZ-FE 6
1990-91 V6 153 CID BORE - 87.5mm/3.45""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1990-91	SB1375-50	1 $\frac{3}{8}$ O.D.,1.109T I.D.,0.2550 Depth,Also Available In Non-Magnetic (N) Material
	Exh	1990-91	SB1187-53	1 $\frac{3}{16}$ O.D.,0.935 I.D.,0.2350 Depth
Keeper	Both	1990-91	121-1058	1 RD Bead Type
Stem Seal	Both	1990-91	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1990-91	140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available
Head Bolt Set		1990-91	220-1048	Torque To Yield,Services Engine

2959cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin V, 3VZ-FE LEX_3VZ-FE 7
1992-93 V6 181 CID BORE - 87.5mm/3.45""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1992-93	SB1437-72	1 $\frac{7}{16}$ O.D.,1.150T I.D.,0.2570 Depth
	Exh	1992-93	SB1187-53	1 $\frac{3}{16}$ O.D.,0.935 I.D.,0.2350 Depth
Valve	Int	1992-93	10305	1.339 Head Diameter
	Exh	1992-93	10306S	1.073 Head Diameter,Stellite Face
Keeper	Both	1992-93	121-1058	1 RD Bead Type
Stem Seal	Int	1992-93	122-1165	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1992-93	140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available

LEXUS / PASSENGER CAR OR TRUCK (Cont'd)

8 2994cc, (3.0L), DOHC, GAS, FI, 24 Valve, 3GR-FSE LEX_3GR-FSE
 2006-06 V6 183 CID BORE - 87.4mm/3.44"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2006-06 121-1100	1 RD Bead Type
Stem Seal	Int	2006-06 122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2006-06 122-1282	Positive Type,Viton Material,Metal Clad Style

9 2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin G, 1MZ-FE LEX_1MZ-FE
 1994-03 V6 183 CID BORE - 87.5mm/3.45"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1994-03 SB1437-72	1 ⁷ / ₁₆ O.D.,1.150T I.D.,0.2570 Depth
	Exh	1994-03 SB1187-53	1 ⁷ / ₁₆ O.D.,0.935 I.D.,0.2350 Depth
Valve	Int	1994-03 10552	1.339 Head Diameter
	Exh	1994-03 10553S	1.073 Head Diameter,Stellite Face
Keeper	Both	1994-03 121-1100	1 RD Bead Type
Stem Seal	Int	1994-03 122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	1994-03 122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1994-03 140-8584	0.2175 I.D.,1.360 Length,0.4073 O.D.
	Exh	1994-03 140-8585	0.2175 I.D.,1.590 Length,0.4075 O.D.,+2 O/S Available

10 2997cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin D, J, 2JZ-GE LEX_2JZ-GE
 1992-05 L6 183 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1992-05 SB1437-72	1 ⁷ / ₁₆ O.D.,1.150T I.D.,0.2570 Depth
	Exh	1992-05 SB1250-58	1 ¹ / ₄ O.D.,0.955 I.D.,0.2550 Depth
Valve	Int	1992-05 10518	1.319 Head Diameter
Stem Seal	Both	1992-05 122-1246	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1992-05 140-8147	0.2370 I.D.,1.520 Length,0.4360 O.D.
	Exh	1992-05 140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available

11 3300cc, (3.3L), DOHC, ELECTRIC/GAS, FI, 24 Valve, 3MZ-FE, ""Hybrid"" LEX_3MZ-FE
 2004-08 V6 202 CID BORE - 91.95mm/3.62"

PART	YEARS	PART NO.	NOTES
Valve	Int	2004-08 10552	1.339 Head Diameter
	Exh	2004-08 10553S	1.073 Head Diameter,Stellite Face
Keeper	Both	2004-08 121-1100	1 RD Bead Type
Stem Seal	Int	2004-08 122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2004-08 122-1282	Positive Type,Viton Material,Metal Clad Style

12 3445cc, (3.5L), DOHC, GAS, FI, 24 Valve, V35A-FTS, ""TURBO"" LEX_V35A-FTS
 2018-21 V6 210 CID BORE - 85.5mm/3.37"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2018-20 121-1100	1 RD Bead Type

13 3456cc, (3.5L), DOHC, ELECTRIC/GAS, GAS, FI, 24 Valve, 2GR-FSE, ""Hybrid"" LEX_2GR-FE
 2006-17 V6 211 CID BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2006-17 SB1527E-1	1.527 O.D.,1.310T I.D.,0.2580 Depth,+30 O/S Available
	Exh	2006-17 SB1288E-1	1.288 O.D.,1.107T I.D.,0.2580 Depth,+30 O/S Available
Valve	Int	2006-17 13086	1.496 Head Diameter
	Exh	2006-17 13087	1.260 Head Diameter
Keeper	Both	2006-17 121-1100	1 RD Bead Type

(Cont'd) **LEXUS / PASSENGER CAR OR TRUCK**

3456cc, (3.5L), DOHC, ELECTRIC/GAS, GAS, FI, 24 Valve, 2GR-FSE,
""Hybrid""

13
LEX_2GR-FSE (cont.)

2006-17 V6 211 CID

BORE - 94mm/3.70""

PART	YEARS	PART NO.	NOTES	
Stem Seal	Int	2006-17	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2006-17	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2006-17	140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh	2006-17	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

3456cc, (3.5L), DOHC, GAS, FI, 24 Valve, 2GR-FE
2007-18 V6 211 CID

14
LEX_2GRFE
BORE - 94mm/3.70""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2007-18	SB1527E-1	1.527 O.D.,1.310T I.D.,0.2580 Depth,+30 O/S Available
	Exh	2007-18	SB1288E-1	1.288 O.D.,1.107T I.D.,0.2580 Depth,+30 O/S Available
Valve	Int	2007-18	13086	1.496 Head Diameter
	Exh	2007-18	13087	1.260 Head Diameter
Keeper	Both	2007-18	121-1100	1 RD Bead Type
Stem Seal	Int	2007-18	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2007-18	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2007-18	140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh	2007-18	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

3456cc, (3.5L), DOHC, ELECTRIC/GAS, FI, 24 Valve, 2GR-FXE,
""Hybrid""

15
LEX_2GR-FXE
BORE - 94mm/3.70""

2010-18 V6 211 CID

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2010-18	SB1527E-1	1.527 O.D.,1.310T I.D.,0.2580 Depth,+30 O/S Available
	Exh	2010-18	SB1288E-1	1.288 O.D.,1.107T I.D.,0.2580 Depth,+30 O/S Available
Valve	Int	2010-18	13086	1.496 Head Diameter
	Exh	2010-18	13087	1.260 Head Diameter
Keeper	Both	2010-18	121-1100	1 RD Bead Type
Stem Seal	Int	2010-18	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2010-18	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2010-18	140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh	2010-18	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available, Oversize Available - 140-3135+2

3456cc, (3.5L), DOHC, ELECTRIC/GAS, FI, 24 Valve, 2GR-FXS,
""Hybrid""

16
LEX_2GR-FXS
BORE - 94mm/3.70""

2016-21 V6 211 CID

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2016-20	SB1527E-1	1.527 O.D.,1.310T I.D.,0.2580 Depth,+30 O/S Available
	Exh	2016-20	SB1288E-1	1.288 O.D.,1.107T I.D.,0.2580 Depth,+30 O/S Available
Valve	Int	2016-20	13086	1.496 Head Diameter
	Exh	2016-20	13087	1.260 Head Diameter
Keeper	Both	2016-20	121-1100	1 RD Bead Type
Stem Seal	Int	2016-20	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2016-20	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Exh	2016-20	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

LEXUS / PASSENGER CAR OR TRUCK (Cont'd)

17 3456cc, (3.5L), DOHC, ELECTRIC/GAS, FI, 24 Valve, 8GR-FXS,
 ""Hybrid""

2018-21

V6 211 CID

LEX_8GR-FXS
 BORE - 94mm/3.70""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2018-20	SB1527E-1	1.527 O.D., 1.310T I.D., 0.2580 Depth, +30 O/S Available
	Exh	2018-20	SB1288E-1	1.288 O.D., 1.107T I.D., 0.2580 Depth, +30 O/S Available
Valve	Int	2018-20	13086	1.496 Head Diameter
	Exh	2018-20	13087	1.260 Head Diameter
Keeper	Both	2018-20	121-1100	1 RD Bead Type
Stem Seal	Int	2018-20	122-1266	Positive Type, Viton Material, Metal Clad Style
	Exh	2018-20	122-1282	Positive Type, Viton Material, Metal Clad Style

18 3969cc, (4.0L), DOHC, GAS, FI, 32 Valve, Vin H, U, 1UZ-FE

1990-00

V8 242 CID

LEX_1UZ-FE
 BORE - 87.5mm/3.44""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1990-97	SB1437-72	1 ⁷ / ₁₆ O.D., 1.150T I.D., 0.2570 Depth
	Exh	1990-97	SB1250-58	1 ¹ / ₄ O.D., 0.955 I.D., 0.2550 Depth
Valve	Int	1998-00	13273	1.358 Head Diameter
	Exh	1998-00	13274S	1.142 Head Diameter, Stellite Face
Keeper	Both	1990-00	121-1058	1 RD Bead Type
Stem Seal	Both	1990-97	122-1147	Positive Type, Viton Material, Metal Clad Style
		1998-00	122-1282	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1998-00	140-8584	0.2175 I.D., 1.360 Length, 0.4073 O.D.
	Exh	1998-00	140-8585	0.2175 I.D., 1.590 Length, 0.4075 O.D., +2 O/S Available
	Both	1990-97	140-8273	0.2365 I.D., 1.890 Length, 0.4353 O.D., W/ Snap Ring

19 4293cc, (4.3L), DOHC, GAS, FI, 32 Valve, 3UZ-FE

2001-10

V8 262 CID

LEX_3UZ-FE
 BORE - 91mm/3.58""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2001-10	13273	1.358 Head Diameter
	Exh	2001-10	13274S	1.142 Head Diameter, Stellite Face
Keeper	Both	2001-10	121-1100	1 RD Bead Type
Stem Seal	Both	2001-10	122-1282	Positive Type, Viton Material, Metal Clad Style
Guide	Int	2001-10	140-8584	0.2175 I.D., 1.360 Length, 0.4073 O.D.
	Exh	2001-10	140-8585	0.2175 I.D., 1.590 Length, 0.4075 O.D.

20 4477cc, (4.5L), DOHC, GAS, FI, 24 Valve, Vin J, 1FZ-FE

1996-97

L6 273 CID

LEX_1FZ-FE
 BORE - 100mm/3.94""

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1996-97	122-1130	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1996-97	140-8586	0.2765 I.D., 1.660 Length, 0.4548 O.D., +2 O/S Available

21 4608cc, (4.6L), DOHC, GAS, FI, 32 Valve, 1UR-FE

2010-21

V8 281 CID

LEX_1UR-FE
 BORE - 94mm/3.70""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2010-20	SB1527E-1	1.527 O.D., 1.310T I.D., 0.2580 Depth, +30 O/S Available
	Exh	2010-20	SB1288E-1	1.288 O.D., 1.107T I.D., 0.2580 Depth, +30 O/S Available
Valve	Int	2010-20	13086	1.496 Head Diameter
	Exh	2010-20	13087	1.260 Head Diameter
Keeper	Both	2010-20	121-1100	1 RD Bead Type
Stem Seal	Int	2010-20	122-1266	Positive Type, Viton Material, Metal Clad Style
	Exh	2010-20	122-1282	Positive Type, Viton Material, Metal Clad Style
Guide	Int	2010-20	140-3134	0.2175 I.D., 1.630 Length, 0.4073 O.D., +2 O/S Available

(Cont'd) **LEXUS / PASSENGER CAR OR TRUCK**

4608cc, (4.6L), DOHC, GAS, FI, 32 Valve, 1UR-FE LEX_1UR-FE **21**
2010-21 V8 281 CID BORE - 94mm/3.70"" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Exh 2010-20	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

4608cc, (4.6L), DOHC, GAS, FI, 32 Valve, 1UR-FSE LEX_1UR-FSE **22**
2007-17 V8 281 CID BORE - 94mm/3.70""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 2007-17	SB1288E-1	1.288 O.D.,1.107T I.D.,0.2580 Depth,+30 O/S Available
Valve	Exh 2007-17	13087	1.260 Head Diameter
Keeper	Both 2007-17	121-1100	1 RD Bead Type
Stem Seal	Int 2007-17	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh 2007-17	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2007-17	140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh 2007-17	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

4663cc, (4.7L), DOHC, GAS, FI, 32 Valve, 2UZ-FE LEX_2UZ-FE **23**
1998-09 V8 285 CID BORE - 94mm/3.70""

PART	YEARS	PART NO.	NOTES
Valve	Int 1998-09	13273	1.358 Head Diameter
	Exh 1998-09	13274S	1.142 Head Diameter,Stellite Face
Keeper	Both 1998-09	121-1100	1 RD Bead Type
Stem Seal	Both 1998-09	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int 1998-09	140-8584	0.2175 I.D.,1.360 Length,0.4073 O.D.
	Exh 1998-09	140-8585	0.2175 I.D.,1.590 Length,0.4075 O.D.
Head Saver Shim	1998-09	230-2195L	Left,New Hgt. - 4.805 - 4.808; Min. Hgt. - N/A
	1998-09	230-2195R	Right,New Hgt. - 4.805 - 4.808; Min. Hgt. - N/A

4968cc, (5.0L), DOHC, ELECTRIC/GAS, FI, 32 Valve, 2UR-FSE, ""Hybrid"" LEX_2UR-FSE **24**
2008-16 V8 303 CID BORE - 94mm/3.70""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 2008-16	SB1288E-1	1.288 O.D.,1.107T I.D.,0.2580 Depth,+30 O/S Available
Valve	Exh 2008-16	13087	1.260 Head Diameter
Keeper	Both 2008-16	121-1100	1 RD Bead Type
Stem Seal	Int 2008-16	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh 2008-16	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2008-16	140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh 2008-16	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

4969cc, (5.0L), DOHC, GAS, FI, 32 Valve, 2UR-GSE LEX_2UR-GSE **25**
2008-21 V8 303 CID BORE - 94mm/3.70""

PART	YEARS	PART NO.	NOTES
Keeper	Both 2008-20	121-1100	1 RD Bead Type
Stem Seal	Int 2008-20	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh 2008-20	122-1282	Positive Type,Viton Material,Metal Clad Style

5663cc, (5.7L), DOHC, GAS, FI, 32 Valve, 3UR-FE, ""i-Force"" LEX_3UR-FE **26**
2008-21 V8 345 CID BORE - 94mm/3.70""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 2008-20	SB1527E-1	1.527 O.D.,1.310T I.D.,0.2580 Depth,+30 O/S Available
	Exh 2008-20	SB1288E-1	1.288 O.D.,1.107T I.D.,0.2580 Depth,+30 O/S Available
Valve	Int 2008-20	13086	1.496 Head Diameter
	Exh 2008-20	13087	1.260 Head Diameter

LEXUS / PASSENGER CAR OR TRUCK (Cont'd)

26 5663cc, (5.7L), DOHC, GAS, FI, 32 Valve, 3UR-FE, ""i-Force"" LEX 3UR-FE
 (cont.) 2008-21 V8 345 CID BORE - 94mm/3.70""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2008-20	121-1100	1 RD Bead Type
Stem Seal	Int	2008-20	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2008-20	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2008-20	140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh	2008-20	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

MACK / HEAVY DUTY

Engine **Models** **Line No.**

Engine	Models	Line No.
6 Cylinder		
209.5 C.I., (3.4L), EN-11, Gas, OHV, 12 Valve		1
226 C.I., (3.7L), EN-12, Gas, OHV, 12 Valve		2
661 C.I., (10.8L), MP7, Diesel, SOHC, 24 Valve, ""TURBO""		3
672 C.I., (11.0L), E6350, Diesel, OHV, 12 Valve, ""TURBO""		4
672 C.I., (11.0L), E6350, Diesel, OHV, 24 Valve, ""TURBO""		5
672 C.I., (11.0L), ENDT673/ENDT673/ET673/ETA673, Diesel, OHV, 12 Valve, ""N/A & TURBO""		6
675 C.I., (11.1L), ENDT675/ETSX675, Diesel, OHV, 12 Valve, ""TURBO""		7
676 C.I., (11.1L), ENDT676/ETSX676, Diesel, OHV, 12 Valve, ""TURBO""		8
707 C.I., (11.6L), END707/END711, Diesel, OHV, 12 Valve		9
707 C.I., (11.6L), E9, Diesel, OHV, 12 Valve		10
707 C.I., (11.6L), EM9, Diesel, OHV, 12 Valve		11
728 C.I., (12.0L), E7-4, Diesel, OHV, 24 Valve, ""PLN Engines""		12
728 C.I., (12.0L), E7-ETECH & ASET, Diesel, OHV, 24 Valve, ""TURBO""		13
780 C.I., (12.8L), MP8, Diesel, SOHC, 24 Valve, ""TURBO""		14
984 C.I., (16.1L), MP10, Diesel, SOHC, 24 Valve, ""TURBO""		16
8 Cylinder		
864 C.I., (14.2L), EN-864, Diesel, OHV, 16 Valve		15

1 209.5 C.I., (3.4L), EN-11, Gas, OHV, 12 Valve EN11
L6 209.5 CID BORE - 80.9mm/3.185""

PART	PART NO.	NOTES
Valve	Exh 00210	1.328 Head Diameter,1 Groove,W/ Rotator
Keeper	Exh 121-1003	1 SQ Bead Type

2 226 C.I., (3.7L), EN-12, Gas, OHV, 12 Valve EN12
L6 226 CID BORE - 84.07mm/3.310""

PART	PART NO.	NOTES
Valve	Exh 00210	1.328 Head Diameter,1 Groove,W/ Rotator
Keeper	Exh 121-1003	1 SQ Bead Type

3 661 C.I., (10.8L), MP7, Diesel, SOHC, 24 Valve, ""TURBO"" MP7
L6 661 CID BORE - 123.0mm/4.843""

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1658E-1C	1.658 O.D.,1.300R I.D.,0.2880 Depth,OEM # 20737849

(Cont'd) MACK / HEAVY DUTY**661 C.I., (10.8L), MP7, Diesel, SOHC, 24 Valve, ""TURBO""****MP7 3**

L6 661 CID

BORE - 123.0mm/4.843"" (cont.)

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1579E-1C	1.579 O.D.,1.210R I.D.,0.2525 Depth,OEM # 20732758
Valve	Int	13375S	1.575 Head Diameter,Inconel, Stellite Face,OEM # 20737856
	Exh	13376S	1.496 Head Diameter,Stellite Face,OEM # 20564020, 21430918
Keeper	Both	121-1083	3 RD Bead Type
Stem Seal	Both	122-1469	Positive Type,Viton Material,Metal Clad Style,OEM # 20864662, 21990221
Guide	Both	140-3157	0.3157 I.D.,3.285 Length,0.5905 O.D.,OEM # 20904074, 20905400, 20919484
Spring	Both	160-1619	2.765 Length,OEM # 3183211; Inner
		160-1620	3.035 Length,OEM # 3183210, 21310068; Outer
Injector Tubes and Components		240-1046R	Viton Material,O-Ring, Black,OEM # 3165747, 20536487
		240-1052	Copper Material,Injector Tube,OEM # 20981856, 21274700, 21351717, 85125557; NOTE: Late Copper, Check Casting To Confirm Material; This Sleeve Requires The Use Of An Internal Washer OEM # 21261987; (Use W/ 240-1046R O-Ring)
		240-1053	Stainless Steel Material,Injector Tube,OEM # 21401136, 85137065; NOTE: Late Stainless Steel; (Use W/ 240-1046R O-Ring)

672 C.I., (11.0L), E6350, Diesel, OHV, 12 Valve, ""TURBO""**E6350-2V 4**

L6 672 CID

BORE - 123.73mm/4.871""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2444E-1	2.444 O.D.,2.046 I.D.,0.2990 Depth,+15, +30 & +62 O/S Available,OEM # 13GC2234P1
	Exh	SB2088E-1	2.088 O.D.,1.692 I.D.,0.2990 Depth,+15 & +30 O/S Available,OEM # 13GC2247P1
Valve	Int	01415S	2.245 Head Diameter,Stellite Face,OEM # 690GC2193, 2 Valve Head, Late Style, W/.137 Wide Lock Groove
	Exh	01446	1.889 Head Diameter,Recommended OEM Nickel Base Inconel Material,OEM # 688GC337A, 2 Valve Head, Late Style, W/.137 Wide Lock Groove
		21446	1.889 Head Diameter,Alternative Austenitic Material,2 Valve Head, Late Style, W/.137 Wide Lock Groove
Keeper	Both	121-1009	1 SQ Bead Type,OEM # 54GC126, W/ .137 Wide Groove
Stem Seal	Exh	122-1322	Positive Type,Viton Material,Metal Clad Style,OEM # 446GC279, Late Style
Guide	Both	140-1810	0.5015 I.D.,3.500 Length,0.6886 O.D.,OEM # 714GB1309, For Use W/ Valve # 01415S & 01446
		140-7592	0.4940 I.D.,3.500 Length,0.6884 O.D.,OEM # 714GB210P2
Spring	Both	160-1171	3.543 Length,Outer, Late Style OEM # 575GC1100. Can Be Used To Replace Early Style OEM # 575GC173. W/O Stem Seal, 1.576 I.D.
		160-1295	3.036 Length,OEM # 575GC172, Inner W/ Stem Seal, .794 I.D.
		160-1296	3.468 Length,OEM # 575GC146, Outer, W/ Stem Seal. 1.206 I.D.
Rotator	Both	161-1023	OEM # 722GC226

672 C.I., (11.0L), E6350, Diesel, OHV, 24 Valve, ""TURBO""**E6350-4V 5**

L6 672 CID

BORE - 123.73mm/4.871""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1831E-1	1.831 O.D.,1.555 I.D.,0.2800 Depth,+5, +15 & +30 O/S Available,OEM # 13GC2251P1, Use W/ 30 Degree Intake Valve (01571S)
	Exh	SB1692E-1N	1.693 O.D.,1.430 I.D.,0.2480 Depth,+5, +15 & +30 O/S Available,OEM # 13GC2264P1

MACK / HEAVY DUTY (Cont'd)

5 672 C.I., (11.0L), E6350, Diesel, OHV, 24 Valve, ""TURBO"" E6350-4V
 (cont.) L6 672 CID BORE - 123.73mm/4.871""

PART		PART NO.	NOTES
Valve	Int	01571S	1.694 Head Diameter,Stellite Face,4 Valve Head, Late Style W/ .3725 Stem. Use W/ 30 degree, SB1831E-1 Intake Seat. Valve Can Replace 7/16 Stem OEM # 688GC2373 & 690GC2200. The Manufacturer Recommends Replacement of The Valves, Guides, Spring Retainers & Keepers W/ 3/8 Components.
		13307S	1.694 Head Diameter,Stellite Face,OEM # 690GC410, 690GC425, 690GC432; NOTE: 7.051 Overall Length W/20 Degree Seat; 1.694 Head dia; Note With Letter ""J"" In Head
	Exh	01570	1.573 Head Diameter,Recommended OEM Nickel Base Inconel Material,W/.3715 Stem. This Valve Can Be Used To Replace Early 7/16 Stem OEM # 688GC2373 & 690GC2200. The Manufacturer Recommends Replacement of The Valves, Guides, Spring Retainers And Keepers With 3/8 Components.
		01750	1.573 Head Diameter,Recommended OEM Nickel Base Inconel Material,4 Valve Head, 6.887 Overall Length, W/ Letter "" Y "" In Head, OEM # 688GC2389
		21570	1.573 Head Diameter,Alternative Austenitic Material,W/.3715 Stem. This Valve Can Be Used To Replace Early 7/16 Stem. The Manufacturer Recommends Replacement of The Valves, Guides, Spring Retainers And Keepers With 3/8 Components.
		21750	1.573 Head Diameter,Alternative Austenitic Material,4 Valve Head, 6.887 Overall Length
Keeper	Both	121-1094	1 SQ Bead Type,OEM # 54GC25, 20705437
Stem Seal	Both	122-1274	Positive Type,Viton Material,Metal Clad Style,OEM # 446GC296, Use W/ Valve Guide # 140-8010
Guide	Both	140-8007	0.4313 I.D.,3.146 Length,0.6884 O.D.,Unfinished I.D., Ream To Size
		140-8008	0.4375 I.D.,3.146 Length,0.6884 O.D.,OEM # 714GB217P2, Use W/ Early Style .4375 Stem Valve
		140-8010	0.3750 I.D.,3.155 Length,0.6884 O.D.,OEM # 714GB222P2, Use W/ Late Style .3715 Stem Valves.
		140-8105	0.4375 I.D.,3.406 Length,0.6886 O.D.,OEM # 714GB26P2
Spring	Both	160-1189	2.710 Length,OEM # 575GC213
Injector Tubes and Components		240-1020	Cast Iron Material,Injector Tube,OEM # 12GC212A

6 672 C.I., (11.0L), END673/ENDT673/ET673/ETA673, Diesel, OHV, 12 Valve, ""N/A & TURBO"" END673
 L6 672 CID BORE - 123.73mm/4.871""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2444E-1	2.444 O.D.,2.046 I.D.,0.2990 Depth,+15, +30 & +62 O/S Available,OEM # 13GC1239P1
	Exh	SB2088E-1	2.088 O.D.,1.692 I.D.,0.2990 Depth,+15 & +30 O/S Available,OEM # 13GC1238P1
Valve	Int	01036S	2.245 Head Diameter,Stellite Face,OEM # 690GC2187, 2 Valve Head, Early Style, W/.293 Wide Lock Groove
	Exh	01037	1.890 Head Diameter,Recommended OEM Nickel Base Inconel Material,OEM # 688GC2325, 2 Valve Head, Early Style, W/.293 Wide Lock Groove
		21037	1.889 Head Diameter,Alternative Austenitic Material,2 Valve Head, Early Style, W/.293 Wide Lock Groove
Stem Seal	Exh	122-1322	Positive Type,Viton Material,Metal Clad Style,OEM # 446GC279, Late Style
Guide	Both	140-1809	0.5000 I.D.,3.500 Length,0.6886 O.D.,Plain I.D.,OEM # 714-GB-1308-P2, For Use W/ Valve # 01036S & 01037
		140-7592	0.4940 I.D.,3.500 Length,0.6884 O.D.,OEM # 714GB210P2
		140-7903	0.5000 I.D.,3.500 Length,0.6886 O.D.,Spiral I.D. Version Of 140-1809

(Cont'd) MACK / HEAVY DUTY**672 C.I., (11.0L), END673/ENDT673/ET673/ETA673, Diesel, OHV, 12 Valve,
""N/A & TURBO""****6**

END673 (cont.)

L6 672 CID

BORE - 123.73mm/4.871""

PART		PART NO.	NOTES
Spring	Both	160-1171	3.543 Length,Outer, Late Style OEM # 575GC1100. Can Be Used To Replace Early Style OEM # 575GC173. W/O Stem Seal, 1.576 I.D.
		160-1295	3.036 Length,OEM # 575GC172, Inner W/ Stem Seal, .794 I.D.
		160-1296	3.468 Length,OEM # 575GC146, Outer, W/ Stem Seal. 1.206 I.D.
Injector Tubes and Components		240-1021	Cast Iron Material,Injector Tube,OEM # 12GC129

675 C.I., (11.1L), ENDT675/ETX675, Diesel, OHV, 12 Valve, ""TURBO""

ENDT675

7

L6 675 CID

BORE - 123.73mm/4.871""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2444E-1	2.444 O.D.,2.046 I.D.,0.2990 Depth,+15, +30 & +62 O/S Available,OEM # 13GC1239P1
	Exh	SB2088E-1	2.088 O.D.,1.692 I.D.,0.2990 Depth,+15 & +30 O/S Available,OEM # 13GC1238P1
Valve	Int	01036S	2.245 Head Diameter,Stellite Face,OEM # 690GC2187, 2 Valve Head, Early Style, W/.293 Wide Lock Groove
		01415S	2.245 Head Diameter,Stellite Face,OEM # 690GC2193, 2 Valve Head, Late Style, W/.137 Wide Lock Groove
	Exh	01037	1.890 Head Diameter,Recommended OEM Nickel Base Inconel Material,OEM # 688GC2325, 2 Valve Head, Early Style, W/.293 Wide Lock Groove
		01446	1.889 Head Diameter,Recommended OEM Nickel Base Inconel Material,OEM # 688GC337, 2 Valve Head, Late Style, W/.137 Wide Lock Groove
		21037	1.889 Head Diameter,Alternative Austenitic Material,2 Valve Head, Early Style, W/.293 Wide Lock Groove
		21446	1.889 Head Diameter,Alternative Austenitic Material,2 Valve Head, Late Style, W/.137 Wide Lock Groove
Keeper	Both	121-1009	1 SQ Bead Type,OEM # 54GC126, W/.137 Wide Groove
Stem Seal	Exh	122-1322	Positive Type,Viton Material,Metal Clad Style,OEM # 446GC279, Late Style
Guide	Both	140-1809	0.5000 I.D.,3.500 Length,0.6886 O.D.,Plain I.D.,OEM # 714-GB-1308-P2, For Use W/ Valve # 01036S & 01037
		140-1810	0.5015 I.D.,3.500 Length,0.6886 O.D.,OEM # 714GB1309, For Use W/ Valve # 01415S & 01446
		140-7592	0.4940 I.D.,3.500 Length,0.6884 O.D.,OEM # 714GB210P2
		140-7903	0.5000 I.D.,3.500 Length,0.6886 O.D.,Spiral I.D. Version Of 140-1809
Spring	Both	160-1171	3.543 Length,Outer, Late Style OEM # 575GC1100. Can Be Used To Replace Early Style OEM # 575GC173. W/O Stem Seal, 1.576 I.D.
		160-1295	3.036 Length,OEM # 575GC172, Inner W/ Stem Seal, .794 I.D.
		160-1296	3.468 Length,OEM # 575GC146, Outer, W/ Stem Seal. 1.206 I.D.
Rotator	Both	161-1023	OEM # 722GC226, Use W/.137 Keeper Groove
Injector Tubes and Components		240-1021	Cast Iron Material,Injector Tube,OEM # 12GC129

676 C.I., (11.1L), ENDT676/ETX676, Diesel, OHV, 12 Valve, ""TURBO""

EN676

8

L6 676 CID

BORE - 123.73mm/4.871""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2444E-1	2.444 O.D.,2.046 I.D.,0.2990 Depth,+15, +30 & +62 O/S Available,OEM # 13GC1239P1
	Exh	SB2088E-1	2.088 O.D.,1.692 I.D.,0.2990 Depth,+15 & +30 O/S Available,OEM # 13GC1238P1
Valve	Int	01415S	2.245 Head Diameter,Stellite Face,OEM # 690GC331A, 2 Valve Head, Late Style, W/.137 Wide Lock Groove

MACK / HEAVY DUTY (Cont'd)

8 676 C.I., (11.1L), ENDT676/ETSX676, Diesel, OHV, 12 Valve, ""TURBO"" EN676
 (cont.) L6 676 CID BORE - 123.73mm/4.871""

PART		PART NO.	NOTES
Valve	Exh	01446	1.889 Head Diameter,Recommended OEM Nickel Base Inconel Material,OEM # 688GC2364, 2 Valve Head, Late Style, W/.137 Wide Lock Groove
		21446	1.889 Head Diameter,Alternative Austenitic Material,2 Valve Head, Late Style, W/.137 Wide Lock Groove
Keeper	Both	121-1009	1 SQ Bead Type,OEM # 54GC126, W/ .137 Wide Groove
Stem Seal	Exh	122-1322	Positive Type,Viton Material,Metal Clad Style,OEM # 446GC279, Late Style
Guide	Both	140-1809	0.5000 I.D.,3.500 Length,0.6886 O.D.,Plain I.D.,OEM # 714-GB-1308-P2
		140-1810	0.5015 I.D.,3.500 Length,0.6886 O.D.,OEM # 714GB1309, For Use W/ Valve # 01415S & 01446
		140-7592	0.4940 I.D.,3.500 Length,0.6884 O.D.,OEM # 714GB210P2
		140-7903	0.5000 I.D.,3.500 Length,0.6886 O.D.,Spiral I.D. Version Of 140-1809
Rotator	Both	161-1023	OEM # 722GC226
Injector Tubes and Components		240-1021	Cast Iron Material,Injector Tube,OEM # 12GC129

9 707 C.I., (11.6L), END707/END711, Diesel, OHV, 12 Valve END711
 L6 707 CID BORE - 126.9mm/4.996""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2444E-1	2.444 O.D.,2.046 I.D.,0.2990 Depth,+15, +30 & +62 O/S Available,OEM # 13GC2234P1
	Exh	SB2088E-1	2.088 O.D.,1.692 I.D.,0.2990 Depth,+15 & +30 O/S Available,OEM # 13GC2233
Valve	Int	01036S	2.245 Head Diameter,Stellite Face,OEM # 690GC2187, 2 Valve Head ,Early Style, W/.293 Wide Lock Groove
	Exh	01037	1.890 Head Diameter,Recommended OEM Nickel Base Inconel Material,OEM # 688GC2325, 2 Valve Head ,Early Style, W/.293 Wide Lock Groove
		21037	1.889 Head Diameter,Alternative Austenitic Material,2 Valve Head ,Early Style, W/.293 Wide Lock Groove
Stem Seal	Exh	122-1322	Positive Type,Viton Material,Metal Clad Style,OEM # 446GC279, Late Style
Guide	Both	140-1809	0.5000 I.D.,3.500 Length,0.6886 O.D.,Plain I.D.,OEM # 714-GB-1308-P2, For Use W/ Valve # 01036S & 01037
		140-7592	0.4940 I.D.,3.500 Length,0.6884 O.D.,OEM # 714GB210P2
		140-7903	0.5000 I.D.,3.500 Length,0.6886 O.D.,Spiral I.D. Version Of 140-1809
Spring	Both	160-1171	3.543 Length,Outer, Late Style OEM # 575GC1100. Can Be Used To Replace Early Style OEM # 575GC173. W/O Stem Seal, 1.576 I.D.
		160-1295	3.036 Length,OEM # 575GC172, Inner W/ Stem Seal, .794 I.D.
		160-1296	3.468 Length,OEM #575GC146, Outer, W/ Stem Seal. 1.206 I.D.

10 707 C.I., (11.6L), E9, Diesel, OHV, 12 Valve E9
 L6 707 CID BORE - 126.9mm/4.996""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1841E-1	1.841 O.D.,1.560 I.D.,0.2510 Depth,OEM # 13GC2248P1
	Exh	SB1725E-2N	1.725 O.D.,1.460 I.D.,0.2510 Depth,OEM # 13GC2226
Valve	Int	01573S	1.771 Head Diameter,Stellite Face,OEM # 690-GC-339
	Exh	01572	1.654 Head Diameter,Inconel,OEM # 688-GC-339
Guide	Both	140-8007	0.4313 I.D.,3.146 Length,0.6884 O.D.,Unfinished I.D., Ream To Size
		140-8010	0.3750 I.D.,3.155 Length,0.6884 O.D.,Use W/ .3715 Stem Valves.
		140-8105	0.4375 I.D.,3.406 Length,0.6886 O.D.
Spring	Both	160-1189	2.710 Length,OEM # 575GC213

(Cont'd) MACK / HEAVY DUTY**707 C.I., (11.6L), EM9, Diesel, OHV, 12 Valve**
L6 707 CID**EM9 11**
BORE - 126.9mm/4.996"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1841E-1	1.841 O.D.,1.560 I.D.,0.2510 Depth,OEM # 13GC2248P1
	Exh	SB1725E-2N	1.725 O.D.,1.460 I.D.,0.2510 Depth,OEM # 13GC2226
Valve	Int	01573S	1.771 Head Diameter,Stellite Face,OEM # 690-GC-339
	Exh	01572	1.654 Head Diameter,Inconel,OEM # 688-GC-339
Guide	Both	140-8007	0.4313 I.D.,3.146 Length,0.6884 O.D.,Unfinished I.D., Ream To Size
		140-8010	0.3750 I.D.,3.155 Length,0.6884 O.D.,Use W/ .3715 Stem Valves.
		140-8105	0.4375 I.D.,3.406 Length,0.6886 O.D.
Spring	Both	160-1189	2.710 Length,OEM # 575GC213

728 C.I., (12.0L), E7-4, Diesel, OHV, 24 Valve, ""PLN Engines""
L6 728 CID**E7 4V-PLN 12**
BORE - 123.86mm/4.876"

PART		PART NO.	NOTES	
Valve Seat Insert	Int	SB1831E-1	1.831 O.D.,1.555 I.D.,0.2800 Depth,+5, +15 & +30 O/S Available,OEM # 13GC2251P1, 30 Degree	
	Exh	SB1692E-1N	1.693 O.D.,1.430 I.D.,0.2480 Depth,+5, +15 & +30 O/S Available,OEM # 13GC2264P1, 30 Degree	
Valve	Int	01571S	1.694 Head Diameter,Stellite Face,OEM # 688GC2373 & 690GC2210; NOTE: Late Style W/.3725 Stem, W/ 30 degree, This Valve Can Replace 7/16 Stem, The Mfg. Recommends Replacement of The Valves, Guides, Spring Retainers & Keepers W/ 3/8 Components.	
		Exh	01570	1.573 Head Diameter,Recommended OEM Nickel Base Inconel Material,OEM # 688GC2378; NOTE: 6.867 Overall Length, W/.3715 Stem Dia. This Valve Can Be Used To Replace Early 7/16 Stem. The Mfg. Recommends Replacement of The Valves, Guides, Spring Retainers And Keepers With 3/8 Components.
			01750	1.573 Head Diameter,Recommended OEM Nickel Base Inconel Material,OEM # 688GC2389; NOTE: 6.887 Overall Length, W/ Letter "" Y "" In Head, 30 Degree
			21570	1.573 Head Diameter,Alternative Austenitic Material,6.867 Overall Length, W/.3715 Stem Dia. This Valve Can Be Used To Replace Early 7/16 Stem. The Mfg. Recommends Replacement of The Valves, Guides, Spring Retainers And Keepers With 3/8 Components.
			21750	1.573 Head Diameter,Alternative Austenitic Material,6.887 Overall Length
Keeper	Both	121-1094	1 SQ Bead Type,OEM # 54GC25, 20705437	
Stem Seal	Both	122-1274	Positive Type,Viton Material,Metal Clad Style,OEM # 446GC296, 446GC328	
Guide	Both	140-8007	0.4313 I.D.,3.146 Length,0.6884 O.D.,Unfinished I.D., Ream To Size	
		140-8008	0.4375 I.D.,3.146 Length,0.6884 O.D.,OEM # 714GB217P2, Use W/ Early Style 7/16 Stem Valve	
		140-8010	0.3750 I.D.,3.155 Length,0.6884 O.D.,OEM # 714GB3103P2, Use W/ Late Style 3/8 Stem Valves	
		140-8105	0.4375 I.D.,3.406 Length,0.6886 O.D.,OEM # 714GB26P2	
Spring	Exh	160-1624	2.940 Length,OEM # 575GC35, 575GC36, 20706558; NOTE: W/ Stealth , Use With Lower Rotator 161-1052	
	Both	160-1189	2.710 Length,OEM # 575GC213; NOTE: Both W/O Stealth, Intake ONLY W/Stealth, Use With Lower Rotator 722GC235	
Rotator	Exh	161-1052	OEM # 722GC313A, 722GC314, 25100204; NOTE: W/Stealth, Lower Spring Rotator For Use W/ Spring OEM # 575GC35, 575GC36	
	Both	161-1074	Retainer,OEM# 25502378; NOTE: Replaces Early Castings Using Upper Rotator; Used W/ Lower Rotators For Single & Dual Springs	
Injector Tubes and Components		240-1020	Cast Iron Material,Injector Tube,OEM # 12GC212A	

MACK / HEAVY DUTY (Cont'd)

13 728 C.I., (12.0L), E7-E TECH & ASET, Diesel, OHV, 24 Valve, ""TURBO"" E7-E TECH
 L6 728 CID BORE - 123.86mm/4.876""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1831E-2	1.831 O.D., 1.550 I.D., 0.2530 Depth, +5, +15 & +30 O/S Available, OEM # 13GC38, 20706194, 20 Degree
	Exh	SB1692E-1N	1.693 O.D., 1.430 I.D., 0.2480 Depth, +5, +15 & +30 O/S Available, OEM # 13GC2264P1, 30 Degree
Valve	Int	01910S	1.694 Head Diameter, Stellite Face, OEM # 690GC417, 690GC411; NOTE: 6.956 Overall Length, 20 Degree
		13307S	1.694 Head Diameter, Stellite Face, OEM # 690GC410, 690GC425, 690GC432; NOTE: 7.051 Overall Length W/20 Degree Seat; 1.694 Head dia; Note With Letter ""J"" In Head
	Exh	02095	1.573 Head Diameter, Recommended OEM Nickel Base Inconel Material, OEM # 688GC344, 20706223; NOTE: 6.992 Overall Length, 30 Degree
		22095	1.573 Head Diameter, Alternative Austenitic Material, 6.992 Overall Length, 30 Degree
Keeper	Both	121-1094	1 SQ Bead Type, OEM # 54GC25, 20705437
Stem Seal	Both	122-1274	Positive Type, Viton Material, Metal Clad Style, OEM # 446GC328, Use with 140-8010 Guide
		122-1361	Positive Type, Viton Material, Metal Clad Style, OEM # 446GC332, 25633189, ""ASET"" Version, Use W/ 140-3043 Valve Guide
Guide	Both	140-3043	0.3750 I.D., 3.110 Length, 0.6884 O.D., OEM # 714GB3113A, ""ASET"" Version, Use W/ 122-1361 Stem Seal
		140-8010	0.3750 I.D., 3.155 Length, 0.6884 O.D., OEM # 714GB3103P2 & 714GB3107P2, Use with Single Spring
Spring	Both	160-1466	2.875 Length, OEM # 575GC1115; NOTE: Inner For Dual Spring Used W/ Outer Spring 575GC35 & 575GC36
		160-1624	2.940 Length, OEM # 575GC35, 575GC36, 20706558; NOTE: W/ Single Spring & Used As Outer W/ Dual Spring Set Up
Rotator	Both	161-1052	OEM # 722GC313A, 722GC314, 25100204; NOTE: Lower Spring Rotator For Single Spring Set Up Only
		161-1056	OEM # 722GC320; NOTE: Lower Spring Rotator For Dual Spring Set Up Only
		161-1074	Retainer, OEM # 25502378; NOTE: Replaces Early Castings Using Upper Rotator; Used W/ Lower Rotators For Single & Dual Springs
Injector Tubes and Components		240-1023	Cast Iron Material, Injector Tube, OEM # 12GC412, ASET Engine

14 780 C.I., (12.8L), MP8, Diesel, SOHC, 24 Valve, ""TURBO"" MP8
 L6 780 CID BORE - 131.0mm/5.157""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1776E-1C	1.776 O.D., 1.340R I.D., 0.2975 Depth, OEM # 2074084; NOTE: With 0.2975"" Depth
	Exh	SB1697E-2	1.697 O.D., 1.300R I.D., 0.2950 Depth, OEM # 20530103; NOTE: With 0.2950"" Depth
Valve	Int	13377S	1.654 Head Diameter, Inconel, Stellite Face, OEM # 20740798
	Exh	13378S	1.575 Head Diameter, Stellite Face, OEM # 20768519
Keeper	Both	121-1083	3 RD Bead Type
Stem Seal	Both	122-1469	Positive Type, Viton Material, Metal Clad Style, OEM # 20864662, 21990221
Guide	Both	140-3157	0.3157 I.D., 3.285 Length, 0.5905 O.D., OEM # 20904074, 20905400, 20919484
Spring	Exh	160-1619	2.765 Length, OEM # 3183211; NOTE: Inner Spring For Exhaust
	Both	160-1620	3.035 Length, OEM # 3183210, 21310068; NOTE: Single Spring For Intake, Outer For Exhaust

(Cont'd) **MACK / HEAVY DUTY**

780 C.I., (12.8L), MP8, Diesel, SOHC, 24 Valve, ""TURBO"" **MP8 14**
L6 780 CID BORE - 131.0mm/5.157"" (cont.)

PART	PART NO.	NOTES
Injector Tubes and Components	240-1046R	Viton Material,O-Ring, Black,OEM # 3165747, 20536487
	240-1052	Copper Material.Injector Tube,OEM # 20981856, 21274700, 21351717, 85125557; NOTE: Late Copper, Check Casting To Confirm Material; This Sleeve Requires The Use Of An Internal Washer OEM # 21261987; (Use W/ 240-1046R O-Ring)
	240-1053	Stainless Steel Material,Injector Tube,OEM # 21401136, 85137065; NOTE: Late Stainless Steel; (Use W/ 240-1046R O-Ring)

864 C.I., (14.2L), EN-864, Diesel, OHV, 16 Valve **EN864 15**
V8 864 CID BORE - 126.9mm/4.996""

PART	PART NO.	NOTES
Valve Seat Insert	Int SB2444E-1	2.444 O.D.,2.046 I.D.,0.2990 Depth,+15, +30 & +62 O/S Available,OEM # 13GC2234P1
	Exh SB2088E-1	2.088 O.D.,1.692 I.D.,0.2990 Depth,+15 & +30 O/S Available,OEM # 13GC2247P1
Spring	Both 160-1171	3.543 Length,Outer, Late Style OEM # 575GC1100. Can Be Used To Replace Early Style OEM # 575GC173. W/O Stem Seal, 1.576 I.D.
	160-1295	3.036 Length,OEM # 575GC172, Inner W/ Stem Seal, .794 I.D.
	160-1296	3.468 Length,OEM # 575GC146, Outer, W/ Stem Seal. 1.206 I.D.

984 C.I., (16.1L), MP10, Diesel, SOHC, 24 Valve, ""TURBO"" **MP10 16**
L6 984 CID BORE - 144.0mm/5.669""

PART	PART NO.	NOTES
Valve	Int 13434S	1.931 Head Diameter,Inconel, Stellite Face,OEM # 20739057
	Exh 13435S	1.813 Head Diameter,Inconel, Stellite Face,OEM # 20513285

MASSEY FERGUSON / TRACTOR

Engine	Models	Line No.
3 Cylinder		
152 C.I., (2.5L), A3.152, Diesel, OHV, 6 Valve, ""Perkins""		6
152 C.I., (2.5L), D3.152, Diesel, OHV, 6 Valve, ""Perkins""		7
152 C.I., (2.5L), T3.152, Diesel, OHV, 6 Valve, ""Perkins TURBO""		8
152 C.I., (2.5L), G3.152, Gas, OHV, 6 Valve, ""Perkins""		9
152 C.I., (2.5L), 3.152.4, Diesel, OHV, 6 Valve, ""Perkins""		10
201 C.I., (3.3L), 1103A-33, Diesel, OHV, 6 Valve, ""Perkins 1100 Series""	1100 Series	12
4 Cylinder		
107 C.I., (1.8L), 4.108, Diesel, OHV, 8 Valve, ""Perkins""		1
120 C.I., (2.0L), Z120, Gas, OHV, 8 Valve, ""Continental""		2
129 C.I., (2.1L), Z129, Gas, OHV, 8 Valve, ""Continental""		3
134 C.I., (2.2L), Z134, Gas, OHV, 8 Valve, ""Continental""		4
145 C.I., (2.4L), Z145, Gas, OHV, 8 Valve, ""Continental""		5
176 C.I., (2.9L), G176, Gas, OHV, 8 Valve, ""Continental""		11
203 C.I., (3.3L), 4.203/D4.203, Diesel, OHV, 8 Valve, ""Perkins""		13
203 C.I., (3.3L), 4.203.2, Diesel, OHV, 8 Valve, ""Perkins""		14
212 C.I., (3.5L), 4.212, Diesel, OHV, 8 Valve, ""Perkins""		15
236 C.I., (3.9L), 4.236, Diesel, OHV, 8 Valve, ""Perkins""		16

MASSEY FERGUSON / TRACTOR (Cont'd)

Engine	Models	Line No.
4 Cylinder		
236 C.I., (3.9L), T4.236, Diesel, OHV, 8 Valve, ""Perkins TURBO""		17
236 C.I., (3.9L), A4.236, Diesel, OHV, 8 Valve, ""Perkins""		18
236 C.I., (3.9L), C4.236, Diesel, OHV, 8 Valve, ""Perkins""		19
236 C.I., (3.9L), G4.236, Gas, OHV, 8 Valve, ""Perkins""		20
243 C.I., (4.0L), 4.401/T4.401, Diesel, OHV, 8 Valve, ""Perkins N/A & TURBO""		21
243 C.I., (4.0L), 1004.40, Diesel, OHV, 8 Valve, ""Perkins""		22
243 C.I., (4.0L), 1004.40T, Diesel, OHV, 8 Valve, ""Perkins TURBO""		23
248 C.I., (4.1L), 4.248, Diesel, OHV, 8 Valve, ""Perkins""		24
248 C.I., (4.1L), 4.248.2, Diesel, OHV, 8 Valve, ""Perkins""		25
258 C.I., (4.2L), 1004.42/4.421, Diesel, OHV, 8 Valve, ""Perkins""		26
318 C.I., (5.2L), 4.318/A4.318/4.318.2, Diesel, OHV, 8 Valve, ""Perkins""		27
6 Cylinder		
354 C.I., (5.8L), 6.354, Diesel, OHV, 12 Valve, ""Perkins""		28
354 C.I., (5.8L), T6.354, Diesel, OHV, 12 Valve, ""Perkins TURBO""		29
354 C.I., (5.8L), 6.354.1, Diesel, OHV, 12 Valve, ""Perkins""		30
354 C.I., (5.8L), 6.354.2, Diesel, OHV, 12 Valve, ""Perkins""		31
354 C.I., (5.8L), 6.354.4, Diesel, OHV, 12 Valve, ""Perkins""		32
354 C.I., (5.8L), T6.354.4, Diesel, OHV, 12 Valve, ""Perkins TURBO""		33
365 C.I., (6.0L), T6.601/6.601, Diesel, OHV, 12 Valve, ""Perkins N/A & TURBO""		34
365 C.I., (6.0L), 1006.60, Diesel, OHV, 12 Valve, ""Perkins""		35
365 C.I., (6.0L), 1006.60T, Diesel, OHV, 12 Valve, ""Perkins TURBO""		36
372 C.I., (6.1L), 6.372, Diesel, OHV, 12 Valve, ""Perkins""		37
372 C.I., (6.1L), 6.372.4, Diesel, OHV, 12 Valve, ""Perkins""		38
403 C.I., (6.6L), 1106-E60TA, Diesel, OHV, 12 Valve, ""Perkins 1100 Series TURBO""		39

1 107 C.I., (1.8L), 4.108, Diesel, OHV, 8 Valve, ""Perkins"" MF-4.108
L4 107 CID BORE - 79.4mm/3.125""

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1562-7	1 ⁹ / ₁₆ O.D., 1 ¹ / ₄ I.D., 1/4 Depth, NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh SB1312-4	1 ⁵ / ₁₆ O.D., 1.000 I.D., 1/4 Depth, NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int 13099	1.412 Head Diameter, OEM # 910060, 910064
	Exh 13100	1.190 Head Diameter, OEM # 910061
Keeper	Both 121-1051	1 RD Bead Type, OEM #'S 230001, 731155M1
Stem Seal	Both 122-1412	Umbrella Type, Viton Material, Umbrella Style
Guide	Int 140-3099	0.3148 I.D., 2.127 Length, 0.5025 O.D., OEM # 3313E001, 732921M2
	Exh 140-1956	0.3150 I.D., 2.438 Length, 0.5025 O.D., OEM #'S 33261723, 732445M1

(Cont'd) MASSEY FERGUSON / TRACTOR**120 C.I., (2.0L), Z120, Gas, OHV, 8 Valve, ""Continental""**
L4 120 CID**MF-Z120 2**
BORE - 80.96mm/3.187""

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1125-1	1 $\frac{1}{8}$ O.D., $\frac{7}{8}$ I.D., $\frac{7}{32}$ Depth
Valve	Both	00234	1.015 Head Diameter, Drilled Stem, OEM # S 830726M91, 1751518M1, 1751519M1
		00489	1.015 Head Diameter, 1.015 Head Diameter, W/Rotator & Late Style Valve Keeper
Keeper	Both	121-1010	PIN Bead Type, OEM # 18291A; Pin For Drilled Stem: Pin Length 0.5020""; Pin Diameter 0.130""
		121-1011	1 SQ Bead Type
Stem Seal	Both	322-1002	Positive Type, Teflon Material, All Teflon Style, OEM # 1750062M1; NOTE: Machine Guide To 0.531 O.D.
Guide	Both	140-1717	0.3170 I.D., 1.813 Length, 0.5643 O.D., OEM # 830490M1
Spring	Both	160-1401	2.063 Length, OEM # 21176A

129 C.I., (2.1L), Z129, Gas, OHV, 8 Valve, ""Continental""
L4 129 CID**MF-Z129 3**
BORE - 82.55mm/ 3.250""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1375-4	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{3}{16}$ Depth
	Exh	SB1250-1	1 $\frac{1}{4}$ O.D., 1.000 I.D., $\frac{7}{32}$ Depth
Valve	Int	00343	1.278 Head Diameter, Drilled Stem, OEM # 1750070M1
	Exh	00486	1.140 Head Diameter, 1 Groove, OEM # 1750072M1; NOTE: W/ Rotocap. New Design, Does Not Require Lash Cap
Keeper	Int	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020""; Pin Diameter 0.130""
	Exh	121-1011	1 SQ Bead Type
Stem Seal	Both	322-1002	Positive Type, Teflon Material, All Teflon Style, OEM # 1750062M1; NOTE: Machine Guide To 0.531 O.D.
Guide	Both	140-1717	0.3170 I.D., 1.813 Length, 0.5643 O.D., OEM # 830490M1
Spring	Both	160-1401	2.063 Length, OEM # S 21176A, 840754M91

134 C.I., (2.2L), Z134, Gas, OHV, 8 Valve, ""Continental""
L4 134 CID**MF-Z134 4**
BORE - 85.725mm/3.375""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1375-4	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{3}{16}$ Depth
	Exh	SB1250-1	1 $\frac{1}{4}$ O.D., 1.000 I.D., $\frac{7}{32}$ Depth
Valve	Int	00343	1.278 Head Diameter, Drilled Stem, OEM # 1750070M1
	Exh	00486	1.140 Head Diameter, 1 Groove, OEM # 1750072M1; W/ Rotocap. New Design, Does Not Require Lash Cap
Keeper	Int	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020""; Pin Diameter 0.130""
	Exh	121-1011	1 SQ Bead Type
Stem Seal	Both	322-1002	Positive Type, Teflon Material, All Teflon Style, OEM # 1750062M1; NOTE: Machine Guide To 0.531 O.D.
Guide	Both	140-1717	0.3170 I.D., 1.813 Length, 0.5643 O.D., OEM # 830490M1
Spring	Both	160-1401	2.063 Length, OEM # 21176A

145 C.I., (2.4L), Z145, Gas, OHV, 8 Valve, ""Continental""
L4 145 CID**MF-Z145 5**
BORE - 85.725mm/3.375""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1375-4	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{3}{16}$ Depth
	Exh	SB1250-1	1 $\frac{1}{4}$ O.D., 1.000 I.D., $\frac{7}{32}$ Depth
Valve	Int	00343	1.278 Head Diameter, Drilled Stem, OEM # 1750070M1

MASSEY FERGUSON / TRACTOR (Cont'd)

5 145 C.I., (2.4L), Z145, Gas, OHV, 8 Valve, ""Continental"" MF-Z145
 (cont.) L4 145 CID BORE - 85.725mm/3.375""

PART		PART NO.	NOTES
Valve	Exh	00486	1.140 Head Diameter,1 Groove,OEM # 1750072M1; W/ Rotocap. New Design, Does Not Require Lash Cap
Keeper	Int	121-1010	PIN Bead Type,Pin For Drilled Stem: Pin Length 0.5020""; Pin Diameter 0.130""
	Exh	121-1011	1 SQ Bead Type
Stem Seal	Both	322-1002	Positive Type,Teflon Material,All Teflon Style,OEM # 1750062M1; Machine Guide To 0.531 O.D.
Guide	Both	140-1717	0.3170 I.D.,1.813 Length,0.5643 O.D.,OEM # 830490M91
Spring	Both	160-1401	2.063 Length,OEM # 21176A

6 152 C.I., (2.5L), A3.152, Diesel, OHV, 6 Valve, ""Perkins"" MF-A3.152
 L3 152 CID BORE - 91.44mm/3.60""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D.,1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1880E-1	1.880 O.D.,1 ¹³ / ₃₂ I.D., ⁷ / ₃₂ Depth,OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1437-3N	1 ⁷ / ₁₆ O.D.,1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-1	1.681 O.D.,1-13/64 I.D., ⁵ / ₁₆ Depth,OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	00874	1.534 Head Diameter,OEM #'s 31431261, 731151M1
	Exh	00873	1.315 Head Diameter,OEM #'s 910002, 731152M1
Keeper	Both	121-1051	1 RD Bead Type,OEM #'s 230001, 735115M1
Stem Seal	Both	122-1212	Positive Type,Viton Material,Ring & Band Style,Machine OE Guide To 0.439 O.D. To Accept Seal
		322-1002	Positive Type,Teflon Material,All Teflon Style,From S/N C10001
Guide	Both	140-1956	0.3150 I.D.,2.438 Length,0.5025 O.D.,OEM #'s 33261723, 732445M1
Spring	Both	160-1543	1.836 Length,OEM # 780006, 731154M1; NOTE: For Single Spring Setup, Also Outer Spring For Dual Spring Setup

7 152 C.I., (2.5L), D3.152, Diesel, OHV, 6 Valve, ""Perkins"" MF-D3.152
 L3 152 CID BORE - 91.44mm/3.60""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D.,1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1880E-1	1.880 O.D.,1 ¹³ / ₃₂ I.D., ⁷ / ₃₂ Depth,OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1437-3N	1 ⁷ / ₁₆ O.D.,1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-1	1.681 O.D.,1-13/64 I.D., ⁵ / ₁₆ Depth,OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	00874	1.534 Head Diameter,OEM # 31431261, 31431281, 732811M1; NOTE: 45 Degree Valve
		13103	1.535 Head Diameter,OEM # 31431681, 31431981, 739060M1; NOTE: 35 Degree Valve
	Exh	00873	1.315 Head Diameter,OEM # 31431271, 31431591, 737640M1; NOTE: 45 Degree Valve
		13112	1.315 Head Diameter,OEM # 31431011, 31431991, 747581M1; NOTE: 35 Degree Valve
Keeper	Both	121-1051	1 RD Bead Type,OEM # 230001, 731155M1

(Cont'd) **MASSEY FERGUSON / TRACTOR**

152 C.I., (2.5L), D3.152, Diesel, OHV, 6 Valve, ""Perkins"" MF-D3.152 **7**
L3 152 CID BORE - 91.44mm/3.60"" (cont.)

PART		PART NO.	NOTES
Stem Seal	Both	122-1212	Positive Type, Viton Material, Ring & Band Style, Machine OE Guide To 0.439 O.D. To Accept Seal
		322-1002	Positive Type, Teflon Material, All Teflon Style, From S/N C10001
Guide	Both	140-1956	0.3150 I.D., 2.438 Length, 0.5025 O.D., OEM # 33261723, 732445M1
Spring	Both	160-1543	1.836 Length, OEM # 780006, 731154M1; NOTE: For Single Spring Setup, Also Outer Spring For Dual Spring Setup

152 C.I., (2.5L), T3.152, Diesel, OHV, 6 Valve, ""Perkins TURBO"" MF-T3.152 **8**
L3 152 CID BORE - 91.478mm/3.601""

PART		PART NO.	NOTES
Valve	Int	13101	1.534 Head Diameter, OEM # 31431741; NOTE: 45 Degree Valve
		13103	1.535 Head Diameter, OEM # 31431681, 31431981; NOTE: 35 Degree Valve
	Exh	00873	1.315 Head Diameter, OEM # 31431591, 910002, 737640M1; NOTE: 4.499 Length, 45 Degree Valve
		13102S	1.318 Head Diameter, Stellite Face, OEM # 31431731; NOTE: 4.665 Length, 45 Degree Valve
	13112	1.315 Head Diameter, OEM # 31431011, 31431991; NOTE: 35 Degree Valve	
Keeper	Both	121-1051	1 RD Bead Type, OEM # 230001, 731155M1
Guide	Int	140-3100	0.3148 I.D., 2.227 Length, 0.5025 O.D., OEM # 33261727, 745533M1
	Exh	140-1956	0.3150 I.D., 2.438 Length, 0.5025 O.D., OEM # 33261723, 732445M1
Spring	Both	160-1543	1.836 Length, Outer, OEM # 780006, 731154M1

152 C.I., (2.5L), G3.152, Gas, OHV, 6 Valve, ""Perkins"" MF-G3.152 **9**
L3 152 CID BORE - 91.478mm/3.601""

PART		PART NO.	NOTES
Valve	Int	13101	1.534 Head Diameter, OEM # 31431741; NOTE: 45 Degree Valve
		13103	1.535 Head Diameter, OEM # 31431681, 31431981; NOTE: 35 Degree Valve
	Exh	00873	1.315 Head Diameter, OEM # 31431591, 910002, 737640M1; NOTE: 4.499 Length, 45 Degree Valve
		13102S	1.318 Head Diameter, Stellite Face, OEM # 31431731; NOTE: 4.665 Length, 45 Degree Valve
	13112	1.315 Head Diameter, OEM # 31431011, 31431991; NOTE: 35 Degree Valve	
Keeper	Both	121-1051	1 RD Bead Type, OEM # 230001, 731155M1
Guide	Both	140-3099	0.3148 I.D., 2.127 Length, 0.5025 O.D., OEM # 3313E001
Spring	Both	160-1543	1.836 Length, OEM # 780006, 731154M1; NOTE: For Single Spring Setup, Also Outer Spring For Dual Spring Setup

152 C.I., (2.5L), 3.152.4, Diesel, OHV, 6 Valve, ""Perkins"" MF-3.152.4 **10**
L3 152 CID BORE - 91.478mm/3.601""

PART		PART NO.	NOTES
Valve	Int	13101	1.534 Head Diameter, OEM # 31431741, 745534M1; NOTE: 45 Degree Valve
		13103	1.535 Head Diameter, OEM # 31431681, 31431981; NOTE: 35 Degree Valve
	Exh	00873	1.315 Head Diameter, OEM # 31431591, 910002, 737640M1; NOTE: 4.499 Length, 45 Degree Valve
		13102S	1.318 Head Diameter, Stellite Face, OEM # 31431731; NOTE: 4.665 Length, 45 Degree Valve
		13112	1.315 Head Diameter, OEM # 31431011, 31431991, 747581M1; NOTE: 35 Degree Valve

MASSEY FERGUSON / TRACTOR (Cont'd)

10 152 C.I., (2.5L), 3.152.4, Diesel, OHV, 6 Valve, ""Perkins"" MF-3.152.4
 (cont.) L3 152 CID BORE - 91.478mm/3.601""

PART		PART NO.	NOTES
Keeper	Both	121-1051	1 RD Bead Type,OEM # 230001, 731155M1
Guide	Int	140-3100	0.3148 I.D.,2.227 Length,0.5025 O.D.,OEM # 33261727, 745533M1
	Exh	140-1956	0.3150 I.D.,2.438 Length,0.5025 O.D.,OEM # 33261723, 732445M1
Spring	Both	160-1543	1.836 Length,Outer, OEM # 780006, 731154M1

11 176 C.I., (2.9L), G176, Gas, OHV, 8 Valve, ""Continental"" MF-G176
 L4 176 CID BORE - 90.8mm/3.575""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1437-3	1 ⁷ / ₁₆ O.D.,1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1348E-1N	1.348 O.D.,1.087 I.D.,0.2000 Depth,+10 O/S Available
Valve	Int	13105	1.328 Head Diameter,NOTE: Except LPG
	Exh	13106S	1.203 Head Diameter,Stellite Face,NOTE: Includes LPG
Guide	Both	140-1833	0.3432 I.D.,1.813 Length,0.6575 O.D.,OEM #'s 1019739M1,830762M91

12 201 C.I., (3.3L), 1103A-33, Diesel, OHV, 6 Valve, ""Perkins 1100 Series"" MF-1103A-33
 L3 201 CID BORE - 105mm/4.133""

PART		PART NO.	NOTES
Valve	Int	13137	1.823 Head Diameter,OEM # 3142H071
	Exh	13138	1.634 Head Diameter,OEM # 3142A151
Keeper	Both	121-1118	1 RD Bead Type,OEM # 3142W004
Guide	Both	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 3313A012
Spring	Both	160-1569	1.729 Length,Conical,OEM # 3174A016; NOTE: Alternative Aftermarket Design
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

13 203 C.I., (3.3L), 4.203/D4.203, Diesel, OHV, 8 Valve, ""Perkins"" MF-4.203
 L4 203 CID BORE - 91.44mm/3.60""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1880E-1	1.880 O.D.,1 ¹³ / ₃₂ I.D., ⁷ / ₃₂ Depth,OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1437-3N	1 ⁷ / ₁₆ O.D.,1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-1	1.681 O.D.,1-13/64 I.D., ⁵ / ₁₆ Depth,OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	00874	1.534 Head Diameter,OEM #'S 31431261, 731151M1, 31431281, 732811M1; NOTE: 45 Degree Valve
		13103	1.535 Head Diameter,OEM # 31431681, 31431981, 739060M1; NOTE: 35 Degree Valve
	Exh	00873	1.315 Head Diameter,OEM # 31431591, 910002, 737640M1; NOTE: 45 Degree Valve
		13112	1.315 Head Diameter,OEM # 31431011, 31431991, 746008M1; NOTE: 35 Degree Valve
Keeper	Both	121-1051	1 RD Bead Type,OEM #'S 230001, 731155M1
Stem Seal	Both	122-1212	Positive Type,Viton Material, Ring & Band Style,Machine OE Guide To 0.439 O.D. To Accept Seal
		322-1002	Positive Type,Teflon Material,All Teflon Style,From S/N C10001
Guide	Int	140-3100	0.3148 I.D.,2.227 Length,0.5025 O.D.,OEM # 33261727, 745533M1
	Both	140-1956	0.3150 I.D.,2.438 Length,0.5025 O.D.,OEM #'S 33261723, 732445M1

(Cont'd) **MASSEY FERGUSON / TRACTOR**

203 C.I., (3.3L), 4.203/D4.203, Diesel, OHV, 8 Valve, ""Perkins"" MF-4.203 **13**
L4 203 CID BORE - 91.44mm/3.60"" (cont.)

PART		PART NO.	NOTES
Spring	Both	160-1543	1.836 Length,Outer, OEM # 780006, 731154M1

203 C.I., (3.3L), 4.203.2, Diesel, OHV, 8 Valve, ""Perkins"" MF-4.203.2 **14**
L4 203 CID BORE - 91.44mm/3.60""

PART		PART NO.	NOTES
Valve	Int	13101	1.534 Head Diameter,OEM # 31431741; NOTE: 45 Degree Valve
		13103	1.535 Head Diameter,OEM # 31431681, 31431981, 745534M1; NOTE: 35 Degree Valve
	Exh	00873	1.315 Head Diameter,OEM # 31431591, 910002, 737640M1; NOTE: 4.499 Length, 45 Degree Valve
		13102S	1.318 Head Diameter,Stellite Face,OEM # 31431731; NOTE: 4.665 Length, 45 Degree Valve
		13112	1.315 Head Diameter,OEM # 31431011, 31431991, 746008M1; NOTE: 35 Degree Valve
Keeper	Both	121-1051	1 RD Bead Type,OEM #'S 230001, 731155M1
Guide	Int	140-3100	0.3148 I.D.,2.227 Length,0.5025 O.D.,OEM #'S, 33261727, 745533M1
	Exh	140-1956	0.3150 I.D.,2.438 Length,0.5025 O.D.,OEM #'S 33261723, 732445M1
Spring	Both	160-1543	1.836 Length,Outer, OEM # 780006, 731154M1

212 C.I., (3.5L), 4.212, Diesel, OHV, 8 Valve, ""Perkins"" MF-4.212 **15**
L4 212 CID BORE - 98.425mm/3.875""

PART		PART NO.	NOTES
Valve	Int	00883	1.744 Head Diameter,OEM #'S 31431641, 739027M1
	Exh	00882A	1.440 Head Diameter,OEM # 3142A052, 31431104, 31431109, 31431881, 741466M1, 747552M1
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108, 746543M1
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002, 3637056M1
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM# 3343J002, 748420M1
Spring	Both	160-1291	2.578 Length,Outer, OEM # 31745121, 735521M91
		160-1301	2.000 Length,Inner, OEM # 31744131, 735525M91
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

236 C.I., (3.9L), 4.236, Diesel, OHV, 8 Valve, ""Perkins"" MF-4.236 **16**
L4 236 CID BORE - 98.425mm/3.875""

PART		PART NO.	NOTES
Valve	Int	00883	1.744 Head Diameter,OEM #'S 31431641, 739027M1
		01783	1.741 Head Diameter,OEM # 31431315, 735820M1
	Exh	00882A	1.440 Head Diameter,OEM # 3142A052, 31431104, 31431109, 31431881, 741466M1, 747552M1
Keeper	Both	121-1018	1 RD Bead Type,OEM #'S 33173108, 736453M1
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM #'S 3343F002, 3637056M1
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM #'S 3343J002, 748420M1
Spring	Both	160-1291	2.578 Length,Outer, OEM #'S 31745121, 735525M91
		160-1301	2.000 Length,Inner, OEM #'S 31744131, 735525M91
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

MASSEY FERGUSON / TRACTOR (Cont'd)

17 236 C.I., (3.9L), T4.236, Diesel, OHV, 8 Valve, ""Perkins TURBO""

MF-T4.236

L4 236 CID

BORE - 98.425mm/3.875""

PART		PART NO.	NOTES
Valve	Int	01783	1.741 Head Diameter,OEM #'S 31431315, 735820M1; NOTE: 45 Degree Valve
	Exh	13135 00882A	1.740 Head Diameter,OEM # 3142H002; NOTE: 30 Degree Valve 1.440 Head Diameter,OEM # 3142A052, 31431104, 31431109, 31431881, 741466M1, 747552M1
Keeper	Both	121-1018	1 RD Bead Type,OEM #'S 33173108, 736453M1
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM #'S 3343F002, 3637056M1
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM #'S 3343J002, 748420M1
Spring	Both	160-1291	2.578 Length,Outer, OEM #'S 31745121, 735521M91
		160-1301	2.000 Length,Inner, OEM #'S 31744131, 735525M91
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

18 236 C.I., (3.9L), A4.236, Diesel, OHV, 8 Valve, ""Perkins""

MF-A4.236

L4 236 CID

BORE - 98.425mm/3.875""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1 ⁷ / ₈ O.D.,1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB2020E-1	2.020 O.D.,1.589 I.D.,0.2825 Depth,OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1562-6N	1 ⁹ / ₁₆ O.D.,1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-3	1.681 O.D.,1.251ST I.D., ³ / ₈ Depth,NOTE: Stepped I.D.,OEM# 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat
		SB1690E-1	1.690 O.D.,1.251ST I.D., ³ / ₈ Depth,NOTE: Stepped I.D.,OEM# 33152154, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	00883	1.744 Head Diameter,OEM # 31431641, 739027M1
	Exh	01887	1.772 Head Diameter,OEM # 3142L071, 3637042M1
		00882A	1.440 Head Diameter,OEM # 3142A052, 31431104, 31431109, 31431881, 741466M1, 747552M1
		01784	1.473 Head Diameter,OEM # 3142A051, 748309M1
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108, 736453M1
Stem Seal	Both	122-1015	Positive Type,Tef/Rub Material,1-Ring Style,Machine Guide To 0.562 O.D.
		122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117, 3637041M1
Guide	Int	140-1976	0.3755 I.D.,2.281 Length,0.6265 O.D.,OEM # 33261732
	Exh	140-1977	0.3755 I.D.,2.406 Length,0.6265 O.D.,OEM # 33261752
Spring	Both	160-1291	2.578 Length,Single Spring To S/N 236UA-19816, Outer From S/N 236UA-19817
		160-1301	2.000 Length,Inner, From S/N 236UA-19817

19 236 C.I., (3.9L), C4.236, Diesel, OHV, 8 Valve, ""Perkins""

MF-C4.236

L4 236 CID

BORE - 98.425mm/3.875""

PART		PART NO.	NOTES
Valve	Int	01783	1.741 Head Diameter,OEM #'S 31431315, 735820M1
	Exh	00882A	1.440 Head Diameter,OEM # 3142A052, 31431104, 31431109, 31431881, 741466M1, 747552M1
Keeper	Both	121-1018	1 RD Bead Type,OEM #'S 33173108, 736453M1
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM #'S 3343F002, 3637056M1
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM #'S 3343J002, 748420M1
Spring	Both	160-1291	2.578 Length,Outer, OEM #'S 31745121, 735521M91
		160-1301	2.000 Length,Inner, OEM #'S 31744131, 735525M91

(Cont'd) MASSEY FERGUSON / TRACTOR

236 C.I., (3.9L), C4.236, Diesel, OHV, 8 Valve, ""Perkins"" MF-C4.236 **19**
 L4 236 CID BORE - 98.425mm/3.875"" (cont.)

PART	PART NO.		NOTES
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

236 C.I., (3.9L), G4.236, Gas, OHV, 8 Valve, ""Perkins"" MF-G4.236 **20**
 L4 236 CID BORE - 98.425mm/3.875""

PART	PART NO.		NOTES
Valve Seat Insert	Int	SB1875-19	1 $\frac{7}{8}$ O.D.,1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB2020E-1	2.020 O.D.,1.589 I.D.,0.2825 Depth,OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1562-6N	1 $\frac{9}{16}$ O.D.,1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-3	1.681 O.D.,1.251ST I.D., $\frac{3}{8}$ Depth,NOTE: Stepped I.D.,OEM# 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat
		SB1690E-1	1.690 O.D.,1.251ST I.D., $\frac{3}{8}$ Depth,NOTE: Stepped I.D.,OEM# 33152154, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	01783	1.741 Head Diameter,OEM #S 31431871, 31431315, 735820M1, 741092M1
	Exh	01798	1.441 Head Diameter,OEM #S 31431701, 739177M1
Keeper	Both	121-1018	1 RD Bead Type,OEM #S 33173108, 736453M1
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM #S 3343F002, 3637056M1
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM #S 3343J002, 748420M1
Spring	Both	160-1291	2.578 Length,OEM #S 31745121, 735521M91; NOTE: For Single Spring Setup, Also Outer Spring For Dual Spring Setup
		160-1301	2.000 Length,OEM #S 31744131, 735525M91, NOTE: Inner
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

243 C.I., (4.0L), 4.401/T4.401, Diesel, OHV, 8 Valve, ""Perkins N/A & TURBO"" MF-1004.40/40T **21**
 L4 243 CID BORE - 100mm/3.937""

PART	PART NO.		NOTES
Valve	Int	05001	1.693 Head Diameter,OEM # 3142D041, 45 Degree
		13136	1.693 Head Diameter,OEM # 3142L081, 30 Degree
	Exh	05002S	1.620 Head Diameter,Stellite Face,OEM # 3142D031, 45 Degree
		13219	1.616 Head Diameter,OEM # 3142D051, 30 Degree
Keeper	Both	121-1118	1 RD Bead Type,OEM # 3142W004
Stem Seal	Int	122-1395	Positive Type,Viton Material,All Rubber Style,OEM # 2418M506, 2418M507
	Exh	122-1397	Positive Type,Viton Material,All Rubber Style,OEM # 2418M505
Guide	Int	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 3313A012
	Exh	140-3060	0.3547 I.D.,2.018 Length,0.5527 O.D.,OEM # 3318A705
Spring	Both	160-1498	1.847 Length,OEM # 3174P409
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

243 C.I., (4.0L), 1004.40, Diesel, OHV, 8 Valve, ""Perkins"" MF-1004.40 **22**
 L4 243 CID BORE - 100mm/3.937""

PART	PART NO.		NOTES
Valve	Int	01887	1.772 Head Diameter,OEM #S 3142L051, 748413M1
	Exh	01784	1.473 Head Diameter,OEM #S 3142A051, 748309M1
Keeper	Both	121-1018	1 RD Bead Type,OEM #S 33173108, 736453M1
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM #S 3343F002, 736297M1

MASSEY FERGUSON / TRACTOR (Cont'd)

22 243 C.I., (4.0L), 1004.40, Diesel, OHV, 8 Valve, ""Perkins"" MF-1004.40
(cont.) L4 243 CID BORE - 100mm/3.937""

PART		PART NO.	NOTES
Guide	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM #'S 3343J002, 748420M1
Spring	Both	160-1496	1.672 Length,Inner, OEM # 31744133, 740465M1
		160-1497	1.809 Length,Outer, OEM # 31745122, 740467M1
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

23 243 C.I., (4.0L), 1004.40T, Diesel, OHV, 8 Valve, ""Perkins TURBO"" MF-1004.40T
L4 243 CID BORE - 100mm/3.937""

PART		PART NO.	NOTES
Valve	Int	01887	1.772 Head Diameter,OEM #'S 3142L071, 3637042M1, 45 Degree
		05000	1.772 Head Diameter,OEM # 3142L072, 30 Degree
	Exh	01784	1.473 Head Diameter,OEM #'S 3142A051, 749309M1
Keeper	Both	121-1018	1 RD Bead Type,OEM #'S 33173108, 736453M1
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM #'S 3343F002, 736297M1
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM #'S 3343J002, 748420M1, W/ Counterbore
Spring	Both	160-1496	1.672 Length,Inner, OEM # 31744133, 740465M1
		160-1497	1.809 Length,Outer, OEM # 31745122, 740467M1
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

24 248 C.I., (4.1L), 4.248, Diesel, OHV, 8 Valve, ""Perkins"" MF-4.248
L4 248 CID BORE - 98.425mm/3.875""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1 ⁷ / ₈ O.D.,1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB2020E-1	2.020 O.D.,1.589 I.D.,0.2825 Depth,OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1562-6N	1 ⁹ / ₁₆ O.D.,1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-3	1.681 O.D.,1.251ST I.D., ³ / ₈ Depth,NOTE: Stepped I.D.,OEM# 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat
		SB1690E-1	1.690 O.D.,1.251ST I.D., ³ / ₈ Depth,NOTE: Stepped I.D.,OEM# 33152154, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	00883	1.744 Head Diameter,OEM #'s 31431641, 739027M1
		01783	1.741 Head Diameter,OEM # 31431315, 735820M1
	Exh	00882A	1.440 Head Diameter,OEM # 3142A052, 31431104, 31431109, 31431881, 741466M1, 747552M1
Keeper	Both	121-1018	1 RD Bead Type,OEM #'s 33173108, 763453M1
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM #'s 3343F002, 3637056M1
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM #'S 3343J002, 748420M1
Spring	Both	160-1291	2.578 Length,Outer, OEM #'S 31745121, 735521M91
		160-1301	2.000 Length,Inner, OEM #'S 31744131, 735525M91
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

25 248 C.I., (4.1L), 4.248.2, Diesel, OHV, 8 Valve, ""Perkins"" MF-4.248.2
L4 248 CID BORE - 98.425mm/3.875""

PART		PART NO.	NOTES
Valve	Int	01783	1.741 Head Diameter,OEM #'S 31431315, 735820M1
	Exh	00882A	1.440 Head Diameter,OEM # 3142A052, 31431104, 31431109, 31431881, 741466M1, 747552M1

(Cont'd) **MASSEY FERGUSON / TRACTOR**

248 C.I., (4.1L), 4.248.2, Diesel, OHV, 8 Valve, ""Perkins"" MF-4.248.2 **25**
L4 248 CID BORE - 98.425mm/3.875"" (cont.)

PART		PART NO.	NOTES
Keeper	Both	121-1018	1 RD Bead Type,OEM #S 33173108, 736453M1
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM #S 3343F002, 3637056M1
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM #S 3343J002, 748420M1
Spring	Both	160-1291	2.578 Length,Outer, OEM #S 31745121, 735521M91
		160-1301	2.000 Length,Inner, OEM #S 31744131, 735525M91
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

258 C.I., (4.2L), 1004.42/4.421, Diesel, OHV, 8 Valve, ""Perkins"" MF-1004.42 **26**
L4 258 CID BORE - 103mm/4.055""

PART		PART NO.	NOTES
Valve	Int	05003	1.772 Head Diameter,OEM # 3142H041
	Exh	05004	1.654 Head Diameter,OEM # 3142D061
Keeper	Both	121-1118	1 RD Bead Type,OEM # 3142W004
Stem Seal	Int	122-1395	Positive Type,Viton Material,All Rubber Style
	Exh	122-1397	Positive Type,Viton Material,All Rubber Style
Guide	Int	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 3313A012
	Exh	140-3060	0.3547 I.D.,2.018 Length,0.5527 O.D.,OEM # 3318A705
Spring	Both	160-1499	1.674 Length,OEM # 3174P412
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

318 C.I., (5.2L), 4.318/A4.318/4.318.2, Diesel, OHV, 8 Valve, ""Perkins"" MF-4.318.2 **27**
L4 318 CID BORE - 114.3mm/4.50""

PART		PART NO.	NOTES
Valve	Int	02167	1.845 Head Diameter,OEM #S 31431154, 738095M1
	Exh	02166	1.594 Head Diameter,OEM #S 31431671, 738944M91
Keeper	Both	121-1018	1 RD Bead Type,OEM #S 33173108, 736453M1
Guide	Both	140-7450	0.3750 I.D.,2.650 Length,0.6265 O.D.,OEM #S 33432532, 738094M1
Spring	Both	160-1291	2.578 Length,Outer, OEM #S 31745121, 735521M1
		160-1301	2.000 Length,Inner, OEM #S 31744131, 735525M91

354 C.I., (5.8L), 6.354, Diesel, OHV, 12 Valve, ""Perkins"" MF-6.354 **28**
L6 354 CID BORE - 98.425mm/3.875""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1 $\frac{7}{8}$ O.D.,1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB2020E-1	2.020 O.D.,1.589 I.D.,0.2825 Depth,OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1562-6N	1 $\frac{9}{16}$ O.D.,1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-3	1.681 O.D.,1.251ST I.D., $\frac{3}{8}$ Depth,NOTE: Stepped I.D.,OEM# 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat
		SB1690E-1	1.690 O.D.,1.251ST I.D., $\frac{3}{8}$ Depth,NOTE: Stepped I.D.,OEM# 33152154, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	01783	1.741 Head Diameter,OEM #S 31431315, 735820M1
	Exh	00882A	1.440 Head Diameter,OEM # 3142A052, 31431104, 31431109, 31431881, 741466M1, 747552M1
Keeper	Both	121-1018	1 RD Bead Type,OEM #S 33173108, 736453M1
Stem Seal	Both	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM #S 3343F002, 736297M1

MASSEY FERGUSON / TRACTOR (Cont'd)

28 354 C.I., (5.8L), 6.354, Diesel, OHV, 12 Valve, ""Perkins"" MF-6.354
 (cont.) L6 354 CID BORE - 98.425mm/3.875""

PART		PART NO.	NOTES
Guide	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM #'S 3343J002, 748420M1
Spring	Both	160-1291	2.578 Length,Outer, OEM #'S 31745121, 735521M1
		160-1301	2.000 Length,Inner, OEM #'S 31744131, 735525M91
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

29 354 C.I., (5.8L), T6.354, Diesel, OHV, 12 Valve, ""Perkins TURBO"" MF-T6.354
L6 354 CID BORE - 98.425mm/3.875""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1 ⁷ / ₈ O.D.,1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB2020E-1	2.020 O.D.,1.589 I.D.,0.2825 Depth,OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1562-6N	1 ¹ / ₁₆ O.D.,1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-3	1.681 O.D.,1.251ST I.D., ³ / ₈ Depth,NOTE: Stepped I.D.,OEM# 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat
		SB1690E-1	1.690 O.D.,1.251ST I.D., ³ / ₈ Depth,NOTE: Stepped I.D.,OEM# 33152154, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	01783	1.741 Head Diameter,OEM # 31431315, 735820M1
	Exh	00882A	1.440 Head Diameter
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108, 736453M1
Stem Seal	Both	122-1037	Umbrella Type,Poly Material,Umbrella Style
		122-1270	Umbrella Type,Viton Material,Umbrella Style
		122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002, 736297M1
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002, 748420M1
Spring	Both	160-1291	2.578 Length,Outer, OEM # 31745121, 735521M1
		160-1301	2.000 Length,Inner, OEM # 31744131, 735525M91
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

30 354 C.I., (5.8L), 6.354.1, Diesel, OHV, 12 Valve, ""Perkins"" MF-6.354.1
L6 354 CID BORE - 98.425mm/3.875""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1 ⁷ / ₈ O.D.,1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB2020E-1	2.020 O.D.,1.589 I.D.,0.2825 Depth,OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1562-6N	1 ¹ / ₁₆ O.D.,1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-3	1.681 O.D.,1.251ST I.D., ³ / ₈ Depth,NOTE: Stepped I.D.,OEM# 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat
		SB1690E-1	1.690 O.D.,1.251ST I.D., ³ / ₈ Depth,NOTE: Stepped I.D.,OEM# 33152154, OEM Replacement For Cylinder Head W/ Factory Installed
Valve	Int	01783	1.741 Head Diameter,OEM #'S 31431315, 735820M1
	Exh	13111	1.440 Head Diameter,OEM # 31431931
Keeper	Both	121-1018	1 RD Bead Type,OEM #'S 33173108, 736453M1
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM #'S 3343F002, 736297M1
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM #'S 3343J002, 748420M1
Spring	Both	160-1291	2.578 Length,Outer, OEM #'S 31745121, 735521M1
		160-1301	2.000 Length,Inner, OEM #""S 31744131, 735525M91

(Cont'd) **MASSEY FERGUSON / TRACTOR**

354 C.I., (5.8L), 6.354.1, Diesel, OHV, 12 Valve, ""Perkins"" MF-6.354.1 **30**
L6 354 CID BORE - 98.425mm/3.875"" (cont.)

PART		PART NO.	NOTES
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

354 C.I., (5.8L), 6.354.2, Diesel, OHV, 12 Valve, ""Perkins"" MF-6.354.2 **31**
L6 354 CID BORE - 98.476mm/3.877""

PART		PART NO.	NOTES
Valve	Int	01783	1.741 Head Diameter,OEM # 31431315, 735820M1
	Exh	00882A	1.440 Head Diameter,OEM # 3142A052, 31431104, 31431109, 31431881, 741466M1, 747552M1
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108, 736453M1
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002, 736297M1
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002, 748420M1
Spring	Both	160-1291	2.578 Length,Outer, OEM # 31745121, 735521M1
		160-1301	2.000 Length,Inner, OEM # 31744131, 735525M91
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

354 C.I., (5.8L), 6.354.4, Diesel, OHV, 12 Valve, ""Perkins"" MF-6.354.4 **32**
L6 354 CID BORE - 98.425mm/3.875""

PART		PART NO.	NOTES
Valve	Int	01783	1.741 Head Diameter,OEM # 31431315, 735082M1
	Exh	01784	1.473 Head Diameter,OEM # 3142A051, 748309M1
Keeper	Both	121-1018	1 RD Bead Type,OEM #S 33173108, 736453M1
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM #S 3343F002, 736297M1
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM #S 3343J002, 748420M1
Spring	Both	160-1291	2.578 Length,Outer, OEM #S 31745121, 735521M1
		160-1301	2.000 Length,Inner, OEM #S 31744131, 735525M91
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

354 C.I., (5.8L), T6.354.4, Diesel, OHV, 12 Valve, ""Perkins TURBO"" MF-T6.354.4 **33**
L6 354 CID BORE - 98.476mm/3.877""

PART		PART NO.	NOTES
Valve	Int	01783	1.741 Head Diameter,OEM # 31431315, 735820M1
	Exh	01784	1.473 Head Diameter,OEM # 3142A051, 748309M1
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108, 736453M1
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002, 736297M1
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002, 748420M1
Spring	Both	160-1291	2.578 Length,Outer, OEM # 31745121, 735521M1
		160-1301	2.000 Length,Inner, OEM # 31744131, 735525M91
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

365 C.I., (6.0L), T6.601/6.601, Diesel, OHV, 12 Valve, ""Perkins N/A & TURBO"" MF-T6.601 **34**
L6 365 CID BORE - 100.0mm/3.937""

PART		PART NO.	NOTES
Valve	Int	05001	1.693 Head Diameter,OEM # 3142D041, 45 Degree
		13136	1.693 Head Diameter,OEM # 3142L081, 30 Degree
	Exh	05002S	1.620 Head Diameter,Stellite Face,OEM # 3142D031, 45 Degree
		13219	1.616 Head Diameter,OEM # 3142D051, 30 Degree

MASSEY FERGUSON / TRACTOR (Cont'd)

34 365 C.I., (6.0L), T6.601/6.601, Diesel, OHV, 12 Valve, ""Perkins N/A & (cont.) TURBO""

MF-T6.601

L6 365 CID

BORE - 100.0mm/3.937""

PART		PART NO.	NOTES
Keeper	Both	121-1118	1 RD Bead Type,OEM # 3142W004
Stem Seal	Int	122-1395	Positive Type,Viton Material,All Rubber Style,OEM # 2418M506, 2418M507
	Exh	122-1397	Positive Type,Viton Material,All Rubber Style,OEM # 2418M505
Guide	Int	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 3313A012
	Exh	140-3060	0.3547 I.D.,2.018 Length,0.5527 O.D.,OEM # 3318A705
Spring	Both	160-1498	1.847 Length,OEM # 3174P409

35 365 C.I., (6.0L), 1006.60, Diesel, OHV, 12 Valve, ""Perkins""

MF-1006.60

L6 365 CID

BORE - 100.0mm/3.937""

PART		PART NO.	NOTES
Valve	Int	01887	1.772 Head Diameter,OEM #'S 3142L051, 748413M1
	Exh	01784	1.473 Head Diameter,OEM #'S 3142A051, 748309M1
Keeper	Both	121-1018	1 RD Bead Type,OEM #'S 33173108, 736453M1
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM #'S 3343F002, 736297M1
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM #'S 3343J002, 748420M1
Spring	Both	160-1496	1.672 Length,Inner, OEM # 31744133, 740465M1
		160-1497	1.809 Length,Outer, OEM # 31745122, 740467M1
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

36 365 C.I., (6.0L), 1006.60T, Diesel, OHV, 12 Valve, ""Perkins TURBO""

MF-1006.60T

L6 365 CID

BORE - 100.0mm/3.937""

PART		PART NO.	NOTES
Valve	Int	01887	1.772 Head Diameter,OEM # 3142L071, 3637042M1, 45 Degree NOTE: To ESN 557976X
		05000	1.772 Head Diameter,OEM # 3142L072, 30 Degree, NOTE: From ESN 557977X,
	Exh	01784	1.473 Head Diameter,OEM #'S 3142A051, 748390M1
Keeper	Both	121-1018	1 RD Bead Type,OEM #'S 33173108, 736453M1
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM #'S 3343F002, 736297M1
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM #'S 3343J002, 748420M1, W/Counterbore
Spring	Both	160-1496	1.672 Length,Inner, OEM # 31744133, 740465M1
		160-1497	1.809 Length,Outer, OEM # 31745122, 740467M1
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

37 372 C.I., (6.1L), 6.372, Diesel, OHV, 12 Valve, ""Perkins""

MF-6.372

L6 372 CID

BORE - 97.993mm/3.858""

PART		PART NO.	NOTES
Valve	Int	00883	1.744 Head Diameter,OEM #'S 31431641, 739027M1
	Exh	00882A	1.440 Head Diameter,OEM # 31431891, 3142A052
Keeper	Both	121-1018	1 RD Bead Type,OEM #'S 33173108, 736453M1
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM #'S 3343F002, 736297M1
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM #'S 3343J002, 748420M1
Spring	Both	160-1291	2.578 Length,Outer, OEM #'S 31745121, 735521M1
		160-1301	2.000 Length,Inner, OEM #'S 31744131, 735525M91

(Cont'd) **MASSEY FERGUSON / TRACTOR**

372 C.I., (6.1L), 6.372, Diesel, OHV, 12 Valve, ""Perkins"" MF-6.372 **37**
L6 372 CID BORE - 97.993mm/3.858"" (cont.)

PART		PART NO.	NOTES
Lifter	Both	VL549	Mechanical Type,OEM #31434163, 740671M1

372 C.I., (6.1L), 6.372.4, Diesel, OHV, 12 Valve, ""Perkins"" MF-6.372.4 **38**
L6 372 CID BORE - 97.993mm/3.858""

PART		PART NO.	NOTES
Valve	Int	00883	1.744 Head Diameter,OEM #S 31431641, 739027M1
	Exh	01784	1.473 Head Diameter,OEM #S 3142A051, 748309M1
Keeper	Both	121-1018	1 RD Bead Type,OEM #S 33173108, 736453M1
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM #S 3343F002, 736297M1
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM #S 3343J002, 748420M1
Spring	Both	160-1291	2.578 Length,Outer, OEM #S 31745121, 735521M1
		160-1301	2.000 Length,Inner, OEM #S 31744131, 735525M91
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

403 C.I., (6.6L), 1106-E60TA, Diesel, OHV, 12 Valve, ""Perkins 1100 Series TURBO"" MF-1106-E60TA **39**
L6 403 CID BORE - 100.0mm/3.937""

PART		PART NO.	NOTES
Valve	Int	13136	1.693 Head Diameter,OEM # 3142L081
	Exh	05002S	1.620 Head Diameter,Stellite Face,OEM # 3142D031
Keeper	Both	121-1118	1 RD Bead Type,OEM # 3142W004
Stem Seal	Int	122-1395	Positive Type,Viton Material,All Rubber Style,OEM # 2418M506, 2418M507
	Exh	122-1397	Positive Type,Viton Material,All Rubber Style,OEM # 2418M505
Guide	Int	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 3313A012
	Exh	140-3060	0.3547 I.D.,2.018 Length,0.5527 O.D.,OEM # 3318A705
Spring	Both	160-1498	1.847 Length,OEM # 3174P409
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

MAZDA / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
1272cc, (1.3L), SOHC, GAS, CARB, 8 Valve, TC (1976-78)	GLC, Mizer	1
1415cc, (1.4L), SOHC, GAS, CARB, 8 Valve, UC (1979-80)	GLC	2
1489cc, (1.5L), DOHC, GAS, FI, 16 Valve, Z5 (1995-98)	Protege	3
1490cc, (1.5L), SOHC, GAS, CARB, 8 Valve, E5 (1981-85)	GLC	4
1498cc, (1.5L), DOHC, GAS, FI, 16 Valve, Vin Y, Z, MZR (2011-14)	2	5
1587cc, (1.6L), SOHC, GAS, CARB, 8 Valve, NA (1971-77)	616, 808, B1600	6
1589cc, (1.6L), DOHC, GAS, FI, 16 Valve, ZM (1999-01)	Protege	7
1597cc, (1.6L), SOHC, GAS, FI, 8 Valve, B6 (1986-94)	323	8
1597cc, (1.6L), SOHC, GAS, FI, 16 Valve, B6 (1992-93)	MX-3	9
1597cc, (1.6L), DOHC, GAS, FI, 16 Valve, B6T, ""TURBO"" (1988-89)	323	10
1597cc, (1.6L), DOHC, GAS, FI, 16 Valve, B6 (1990-95)	Miata, MX-3	11
1796cc, (1.8L), SOHC, GAS, CARB, 8 Valve, VB (1977-78)	B1800	12
1839cc, (1.8L), SOHC, GAS, FI, 16 Valve, BPO12 (1990-94)	323, Protege	13

MAZDA / PASSENGER CAR OR TRUCK (Cont'd)

Engine	Models	Line No.
4 Cylinder		
1839cc, (1.8L), DOHC, SOHC, GAS, FI, 16 Valve, BP (1990-05)	Miata, Protege	14
1839cc, (1.8L), DOHC, GAS, FI, 16 Valve, FP (1999-00)	Protege	15
1970cc, (2.0L), SOHC, GAS, CARB, 8 Valve, MA (1979-84)	626, B2000	17
1991cc, (2.0L), DOHC, GAS, FI, 16 Valve, FS-DE (1993-03)	626, MX-6, Protege, Protege5	18
1991cc, (2.0L), DOHC, GAS, FI, 16 Valve, FS-DE, ""TURBO"" (2003-03)	Protege MazdaSpeed Turbo	19
121 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, ""Ford Zetec"" (2001-04)	Tribute	20
1998cc, (2.0L), SOHC, DIESEL, FI, 8 Valve, RF (1984-85)	626	21
1998cc, (2.0L), SOHC, GAS, CARB, 8 Valve, FE (1984-87)	626, B2000	22
1998cc, (2.0L), SOHC, GAS, FI, 8 Valve, FE (1986-87)	626	23
1998cc, (2.0L), SOHC, GAS, FI, 8 Valve, FE, ""TURBO"" (1986-87)	626 Turbo	24
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 7, 8, E, P, ""SKYACTIV-G"" (2011-21)	3, 3 Sport, CX-3, CX-30, CX-5, MX-5 Miata	25
2000cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F, G (2004-13)	3, 3 Sport	26
2000cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F, ""MX-5 Miata"" (2006-15)	MX-5 Miata	27
2184cc, (2.2L), SOHC, GAS, CARB, 8 Valve, F2 (1987-92)	B2200	28
2184cc, (2.2L), SOHC, GAS, FI, 8 Valve, F2 (1990-93)	B2200	29
2184cc, (2.2L), SOHC, GAS, FI, 12 Valve, F2 (1988-92)	626, MX-6	30
2184cc, (2.2L), SOHC, GAS, FI, 12 Valve, F2, ""TURBO"" (1988-92)	626 Turbo, MX-6 Turbo	31
2260cc, (2.3L), DOHC, GAS, FI, 16 Valve, Vin 3, 4, L, MZR (2003-10)	3, 5, 6	33
2260cc, (2.3L), DOHC, GAS, FI, 16 Valve, Vin 3, 4, L, M, MZR, ""TURBO"" (2006-13)	3, 6, CX-7	34
140 C.I., (2.3L), SOHC, GAS, FI, 8 Valve, Vin A, ""Ford"" (1994-97)	B2300	35
140 C.I., (2.3L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin D, H, Z, ""Ford Duratec"" (2001-09)	B2300, Tribute	36
152 C.I., (2.5L), DOHC, GAS, FI, 16 Valve, Vin 5, 6, 7, A, H, L, M, ""Ford Duratec"" (2009-15)	3, 3 Sport, 5, 6, CX-7, Tribute	37
152 C.I., (2.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin 3, ""Ford Duratec Hybrid"" (2009-10)	Tribute Hybrid	38
2488cc, (2.5L), DOHC, GAS, FI, 16 Valve, Vin 3, 5, 6, L, M, Y, ""SKYACTIV-G"" (2014-21)	3, 3 Sport, 6, CX-30, CX-5	39
2488cc, (2.5L), DOHC, GAS, FI, 16 Valve, Vin Y, ""SKYACTIV-G TURBO"" (2016-20)	6, CX-5, CX-9	40
152 C.I., (2.5L), SOHC, GAS, FI, 8 Valve, Vin C, ""Ford"" (1998-01)	B2500	41
2555cc, (2.6L), SOHC, GAS, CARB, 8 Valve, CE26, ""Mitsubishi"" (1987-88)	B2600	44
2606cc, (2.6L), SOHC, GAS, FI, 12 Valve, G6 (1989-93)	B2600	45
2606cc, (2.6L), SOHC, GAS, FI, 12 Valve, G60 (1989-94)	MPV	46
6 Cylinder		
1845cc, (1.8L), DOHC, GAS, FI, 24 Valve, K8 (1992-94)	MX-3	16

(Cont'd) **MAZDA / PASSENGER CAR OR TRUCK**

Engine	Models	Line No.
6 Cylinder		
2254cc, (2.3L), DOHC, GAS, FI, 24 Valve, KJ, ""Supercharged"" (1995-02)	Millenia	32
2497cc, (2.5L), DOHC, GAS, FI, 24 Valve, KL (1993-02)	626, Millenia, MX-6	42
155 C.I., (2.5L), DOHC, GAS, FI, 24 Valve, GY, ""Ford Duratec"" (2000-01)	MPV	43
2954cc, (3.0L), SOHC, GAS, FI, 18 Valve, CE, E30, JE39 (1988-98)	929, MPV	47
2954cc, (3.0L), DOHC, GAS, FI, 18 Valve, JE27, JE48, JE74 (1990-95)	929	48
181 C.I., (3.0L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 1, D, G, ""Ford Duratec"" (2001-11)	6, MPV, Tribute	49
182 C.I., (3.0L), OHV, FLEX, GAS, FI, 12 Valve, Vin U, V, ""Ford Vulcan"" (1994-07)	B3000	50
213 C.I., (3.5L), DOHC, GAS, FI, 24 Valve, ""Ford Duratec"" (2007-07)	CX-9	51
227 C.I., (3.7L), DOHC, GAS, FI, 24 Valve, Vin A, B, V, ""Ford Duratec"" (2008-15)	6, CX-9	52
4016cc, (4.0L), OHV, GAS, FI, 12 Valve, Vin X, VGE4, ""Ford"" (1991-00)	B4000, Navajo	53
245 C.I., (4.0L), SOHC, GAS, FI, 12 Valve, Vin E, ""Ford"" (2001-10)	B4000	54

1272cc, (1.3L), SOHC, GAS, CARB, 8 Valve, TC TC **1**
1976-78 L4 78 CID BORE - 73mm/2.87""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1976-78	SB1562-57	1 ¹ / ₁₆ O.D.,1.246T I.D.,0.2300 Depth
	Exh	1976-78	SB1375-54	1 ³ / ₁₆ O.D.,1.022T I.D.,0.2300 Depth
Keeper	Exh	1976-78	121-1026	1 RD Bead Type,0.090 Bead Dia.
Guide	Both	1976-78	140-9557	0.3180 I.D.,2.000 Length,0.5535 O.D.,W/ Snap Ring

1415cc, (1.4L), SOHC, GAS, CARB, 8 Valve, UC UC **2**
1979-80 L4 86 CID BORE - 77mm/3.03""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1979-80	SB1562-57	1 ¹ / ₁₆ O.D.,1.246T I.D.,0.2300 Depth
	Exh	1979-80	SB1375-54	1 ³ / ₁₆ O.D.,1.022T I.D.,0.2300 Depth
Keeper	Exh	1979-80	121-1026	1 RD Bead Type,0.090 Bead Dia.
Guide	Both	1979-80	140-8200	0.3165 I.D.,1.992 Length,0.5538 O.D.,W/ Snap Ring

1489cc, (1.5L), DOHC, GAS, FI, 16 Valve, Z5 MAZ1.5DC **3**
1995-98 L4 91 CID BORE - 75.3mm/2.97""

PART	YEARS	PART NO.	NOTES	
Stem Seal	Int	1995-98	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	1995-98	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1995-98	140-8587	0.2170 I.D.,1.750 Length,0.4355 O.D.,W/ Snap Ring

1490cc, (1.5L), SOHC, GAS, CARB, 8 Valve, E5 E5 **4**
1981-85 L4 91 CID BORE - 77mm/3.03""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1981-85	SB1562-57	1 ¹ / ₁₆ O.D.,1.246T I.D.,0.2300 Depth
	Exh	1981-85	SB1375-54	1 ³ / ₁₆ O.D.,1.022T I.D.,0.2300 Depth
Keeper	Exh	1981-85	121-1026	1 RD Bead Type,0.090 Bead Dia.

MAZDA / PASSENGER CAR OR TRUCK (Cont'd)

4 1490cc, (1.5L), SOHC, GAS, CARB, 8 Valve, E5 E5
 (cont.) 1981-85 L4 91 CID BORE - 77mm/3.03"

PART	YEARS	PART NO.	NOTES
Stem Seal	Both	1981-85 122-1132	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1981-85 140-8200	0.3165 I.D.,1.992 Length,0.5538 O.D.,W/ Snap Ring

5 1498cc, (1.5L), DOHC, GAS, FI, 16 Valve, Vin Y, Z, MZR MAZ1.5-MZR
 2011-14 L4 91 CID BORE - 78mm/3.07"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2011-14 121-1104	1 RD Bead Type
Stem Seal	Int	2011-14 122-1410	Positive Type,Viton Material,Top Hat Style
	Exh	2011-14 122-1411	Positive Type,Viton Material,Top Hat Style

6 1587cc, (1.6L), SOHC, GAS, CARB, 8 Valve, NA NA
 1971-77 L4 97 CID BORE - 78mm/3.07"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1971-77 SB1500-57	1½ O.D.,1.100T I.D.,0.3160 Depth
Valve	Int	1971-77 10061	1.656 Head Diameter
	Exh	1971-77 10060S	1.297 Head Diameter,Stellite Face
Keeper	Exh	1971-77 121-1026	1 RD Bead Type,0.090 Bead Dia.
Stem Seal	Both	1971-77 122-1132	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1971-77 140-9557	0.3180 I.D.,2.000 Length,0.5535 O.D.,W/ Snap Ring

7 1589cc, (1.6L), DOHC, GAS, FI, 16 Valve, ZM ZM
 1999-01 L4 97 CID BORE - 78mm/3.07"

PART	YEARS	PART NO.	NOTES
Stem Seal	Int	1999-01 122-1246	Positive Type,Viton Material,Metal Clad Style
	Exh	1999-01 122-1285	Positive Type,Viton Material,Metal Clad Style

8 1597cc, (1.6L), SOHC, GAS, FI, 8 Valve, B6 B6SC-8V
 1986-94 L4 97 CID BORE - 78mm/3.07"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1986-94 SB1625-62	1⅝ O.D.,1.320 I.D.,0.3000 Depth
	Exh	1986-94 SB1437-66	1⅞ O.D.,1.120 I.D.,0.3000 Depth
Stem Seal	Both	1986-94 122-1149	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1986-94 140-8205	0.2755 I.D.,1.990 Length,0.4745 O.D.,W/ Snap Ring
Lifter	Both	1986-94 VL146	Hydraulic Lash Adjuster Type

9 1597cc, (1.6L), SOHC, GAS, FI, 16 Valve, B6 B6SC-16V
 1992-93 L4 97 CID BORE - 78mm/3.07"

PART	YEARS	PART NO.	NOTES
Stem Seal	Both	1992-93 122-1285	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1992-93 140-8173	0.2370 I.D.,1.775 Length,0.4360 O.D.,W/ Snap Ring
Lifter	Both	1992-93 VL146	Hydraulic Lash Adjuster Type

10 1597cc, (1.6L), DOHC, GAS, FI, 16 Valve, B6T, ""TURBO"" B6T
 1988-89 L4 97 CID BORE - 78mm/3.07"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1988-89 SB1250-61	1¼ O.D.,0.976 I.D.,0.1800 Depth
	Exh	1988-89 SB1062-50	1⅞ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int	1988-89 10157	1.220 Head Diameter
	Exh	1988-89 10159	1.031 Head Diameter,Inconel
Stem Seal	Both	1988-89 122-1147	Positive Type,Viton Material,Metal Clad Style

(Cont'd) MAZDA / PASSENGER CAR OR TRUCK**1597cc, (1.6L), DOHC, GAS, FI, 16 Valve, B6T, ""TURBO""**
1988-89 L4 97 CID**B6T 10**
BORE - 78mm/3.07"" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Int	1988-89	140-8187	0.2371 I.D.,1.920 Length,0.4355 O.D.,W/ Snap Ring, Tapered End
	Exh	1988-89	140-8186	0.2371 I.D.,1.920 Length,0.4355 O.D.,W/ Snap Ring
Lifter	Both	1988-89	VL149	Hydraulic Bucket Type
Head Saver Shim		1988-89	230-2048	New Hgt. - 5.2680 - 5.2767; Min Hgt. - 5.2677

1597cc, (1.6L), DOHC, GAS, FI, 16 Valve, B6
1990-95 L4 97 CID**B6DC-16V 11**
BORE - 78mm/3.07""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1990-95	SB1250-61	1¼ O.D.,0.976 I.D.,0.1800 Depth
	Exh	1990-95	SB1062-50	1½ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int	1990-95	10157	1.220 Head Diameter
	Exh	1990-95	10159	1.031 Head Diameter,Inconel
Stem Seal	Int	1994-95	122-1246	Positive Type,Viton Material,Metal Clad Style,MX-3
	Exh	1994-95	122-1285	Positive Type,Viton Material,Metal Clad Style,MX-3
	Both	1990-93	122-1285	Positive Type,Viton Material,Metal Clad Style,Miata
Guide	Int	1990-95	140-8187	0.2371 I.D.,1.920 Length,0.4355 O.D.,W/ Snap Ring, Tapered End
	Exh	1990-95	140-8186	0.2371 I.D.,1.920 Length,0.4355 O.D.,W/ Snap Ring
Lifter	Both	1990-95	VL149	Hydraulic Bucket Type
Head Saver Shim		1990-93	230-2048	New Hgt.- 5.2680 - 5.2767; Min. Hgt. 5.2677, Except MX-3 1993-95

1796cc, (1.8L), SOHC, GAS, CARB, 8 Valve, VB
1977-78 L4 110 CID**VB 12**
BORE - 78mm/3.07""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1977-78	SB1500-57	1½ O.D.,1.100T I.D.,0.3160 Depth
Valve	Int	1977-78	10061	1.656 Head Diameter
	Exh	1977-78	10060S	1.297 Head Diameter,Stellite Face
Keeper	Exh	1977-78	121-1026	1 RD Bead Type,0.090 Bead Dia.

1839cc, (1.8L), SOHC, GAS, FI, 16 Valve, BPO12
1990-94 L4 112 CID**BPO12 13**
BORE - 83mm/3.27""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1990-94	SB1250-65	1¼ O.D.,1.030 I.D.,0.2150 Depth
	Exh	1990-94	SB1125-55	1½ O.D.,0.830 I.D.,0.2400 Depth
Stem Seal	Both	1990-94	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1990-94	140-8187	0.2371 I.D.,1.920 Length,0.4355 O.D.,W/ Snap Ring, Tapered End
	Exh	1990-94	140-8186	0.2371 I.D.,1.920 Length,0.4355 O.D.,W/ Snap Ring
Lifter	Both	1990-94	VL146	Hydraulic Lash Adjuster Type
Head Saver Shim		1990-94	230-2050	New Hgt.- 4.2280 - 4.2360; Min. Hgt - 4.2200

1839cc, (1.8L), DOHC, SOHC, GAS, FI, 16 Valve, BP
1990-05 L4 112 CID**BP 14**
BORE - 83mm/3.27""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1990-05	SB1437-74	17/16 O.D.,1.162 I.D.,0.2300 Depth
	Exh	1990-05	SB1250-56	1¼ O.D.,0.905T I.D.,0.2300 Depth
Valve	Int	1990-97	10234	1.298 Head Diameter,3.990 Overall Length
		1998-00	10788S	1.299 Head Diameter,Stellite Face,4.014 Overall Length, Miata 1998-00, Protege 1998 Only

MAZDA / PASSENGER CAR OR TRUCK (Cont'd)

14 1839cc, (1.8L), DOHC, SOHC, GAS, FI, 16 Valve, BP BP
 (cont.) 1990-05 L4 112 CID BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES	
Valve	Exh	1990-97	10235	1.103 Head Diameter,3.997 Overall Length
Stem Seal	Int	1996-05	122-1246	Positive Type,Viton Material,Metal Clad Style
	Exh	1996-05	122-1285	Positive Type,Viton Material,Metal Clad Style
	Both	1990-95	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1990-05	140-8173	0.2370 I.D.,1.775 Length,0.4360 O.D.,W/ Snap Ring
Lifter	Both	1990-97	VL149	Hydraulic Bucket Type
Head Saver Shim		1990-00	230-2011	New Hgt.- 5.2680 - 5.2760; Min. Hgt.- 5.2677

15 1839cc, (1.8L), DOHC, GAS, FI, 16 Valve, FP FP
 1999-00 L4 112 CID BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1999-00	10562	1.240 Head Diameter
	Exh	1999-00	10563	1.089 Head Diameter
Stem Seal	Int	1999-00	122-1246	Positive Type,Viton Material,Metal Clad Style
	Exh	1999-00	122-1285	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1999-00	140-8561	0.2370 I.D.,1.490 Length,0.4358 O.D.,W/ Snap Ring
Head Bolt Set		1999-00	220-1028	Torque To Yield,Services Engine
Head Saver Shim		1999-00	230-2089	New Hgt.- 4.900; Min. Hgt.- 4.894

16 1845cc, (1.8L), DOHC, GAS, FI, 24 Valve, K8 K8
 1992-94 V6 113 CID BORE - 75mm/2.95"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1992-94	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1992-94	140-8561	0.2370 I.D.,1.490 Length,0.4358 O.D.,W/ Snap Ring
Lifter	Both	1992-94	VL149	Hydraulic Bucket Type

17 1970cc, (2.0L), SOHC, GAS, CARB, 8 Valve, MA MA
 1979-84 L4 120 CID BORE - 80mm/3.15"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1979-84	SB1500-57	1½ O.D.,1.100T I.D.,0.3160 Depth
Valve	Int	1979-84	10061	1.656 Head Diameter
	Exh	1979-84	10060S	1.297 Head Diameter,Stellite Face
Keeper	Exh	1979-84	121-1026	1 RD Bead Type,0.090 Bead Dia.
Stem Seal	Both	1979-84	122-1132	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1979-84	140-9557	0.3180 I.D.,2.000 Length,0.5535 O.D.,W/ Snap Ring

18 1991cc, (2.0L), DOHC, GAS, FI, 16 Valve, FS-DE FS-DE
 1993-03 L4 122 CID BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1993-03	10562	1.240 Head Diameter
	Exh	1993-03	10563	1.089 Head Diameter
Stem Seal	Int	1994-03	122-1246	Positive Type,Viton Material,Metal Clad Style
	Exh	1994-03	122-1285	Positive Type,Viton Material,Metal Clad Style
	Both	1993-93	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1993-03	140-8561	0.2370 I.D.,1.490 Length,0.4358 O.D.,W/ Snap Ring
Lifter	Both	1993-97	VL149	Hydraulic Bucket Type
Head Bolt Set		1993-03	220-1028	Torque To Yield,Services Engine
Head Saver Shim		1993-03	230-2089	New Hgt.- 4.900; Min. Hgt.- 4.894

(Cont'd) MAZDA / PASSENGER CAR OR TRUCK**1991cc, (2.0L), DOHC, GAS, FI, 16 Valve, FS-DE, ""TURBO""**
2003-03 L4 122 CID**FS-DET 19****BORE - 86mm/3.39""**

PART	YEARS	PART NO.	NOTES
Valve	Int 2003-03	10562	1.240 Head Diameter
Stem Seal	Int 2003-03	122-1246	Positive Type,Viton Material,Metal Clad Style
	Exh 2003-03	122-1285	Positive Type,Viton Material,Metal Clad Style
Guide	Both 2003-03	140-8561	0.2370 I.D.,1.490 Length,0.4358 O.D.,W/ Snap Ring

121 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, ""Ford Zetec""
2001-04 L4 121 CID**MAZ2.0-DC-TRU 20****BORE - 84.8mm/3.34""**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 2001-04	SB1339E-2	34mm O.D.,26mm I.D.,8.5mm Depth,Note: Adjustable Cutter Required Due To Insufficient Room Between Intake Seats 1 ³ / ₁₆ O.D.,0.905 I.D.,0.2570 Depth
	Exh 2001-04	SB1187-51	
Valve	Int 2001-04	01745	1.260 Head Diameter
	Exh 2001-04	01746	1.102 Head Diameter
Keeper	Both 2001-04	121-1101	1 RD Bead Type
Stem Seal	Both 2001-04	122-1342	Positive Type,Viton Material,Top Hat Style
Guide	Both 2001-04	140-8662	0.2390 I.D.,1.420 Length,0.4727 O.D.
Spring	Int 2001-04	160-1580	1.694 Length,Conical
Head Bolt Set	2001-04	220-1121	Torque To Yield,Services Engine
Head Saver Shim	2001-04	230-2082	New Hgt. - 5.230 - 5.236; Min. Hgt. - 5.225

1998cc, (2.0L), SOHC, DIESEL, FI, 8 Valve, RF
1984-85 L4 122 CID**RF 21****BORE - 86mm/3.39""**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1984-85	SB1687-57	1 ¹¹ / ₁₆ O.D.,1.335T I.D.,0.2750 Depth 1 ¹ / ₂ O.D.,1.182T I.D.,0.2750 Depth
	Exh 1984-85	SB1500-72	
Stem Seal	Both 1984-85	122-1132	Positive Type,Viton Material,Metal Clad Style

1998cc, (2.0L), SOHC, GAS, CARB, 8 Valve, FE
1984-87 L4 122 CID**FE-CA 22****BORE - 86mm/3.39""**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1984-87	SB1812-50	1 ¹³ / ₁₆ O.D.,1.490T I.D.,0.3070 Depth 1 ¹ / ₂ O.D.,1.180T I.D.,0.3070 Depth
	Exh 1984-87	SB1500-54	
Valve	Int 1984-87	10236	1.732 Head Diameter
	Exh 1984-87	10237	1.417 Head Diameter
Keeper	Exh 1984-87	121-1026	1 RD Bead Type,0.090 Bead Dia.
Stem Seal	Both 1984-87	122-1132	Positive Type,Viton Material,Metal Clad Style
Guide	Both 1984-87	140-8172	0.3180 I.D.,2.177 Length,0.5531 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both 1984-87	160-1096	1.720 Length,Inner 1.958 Length,Outer
	Both 1984-87	160-1097	
Head Saver Shim	1984-87	230-2086	New Hgt. - 3.6200 - 3.6240; Min. Hgt. - 3.6120

1998cc, (2.0L), SOHC, GAS, FI, 8 Valve, FE
1986-87 L4 122 CID**FE-FI 23****BORE - 86mm/3.39""**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1986-87	SB1812-50	1 ¹³ / ₁₆ O.D.,1.490T I.D.,0.3070 Depth 1 ¹ / ₂ O.D.,1.180T I.D.,0.3070 Depth
	Exh 1986-87	SB1500-54	
Valve	Int 1986-87	10236	1.732 Head Diameter
	Exh 1986-87	10237	1.417 Head Diameter

MAZDA / PASSENGER CAR OR TRUCK (Cont'd)

23 1998cc, (2.0L), SOHC, GAS, FI, 8 Valve, FE FE-FI
 (cont.) 1986-87 L4 122 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES
Keeper	Exh	1986-87 121-1026	1 RD Bead Type,0.090 Bead Dia.
Stem Seal	Both	1986-87 122-1132	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1986-87 140-8172	0.3180 I.D.,2.177 Length,0.5531 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both	1986-87 1986-87 160-1096 160-1097	1.720 Length,Inner 1.958 Length,Outer
Head Saver Shim		1986-87 230-2086	New Hgt.- 3.6200 - 3.6240; Min. Hgt.- 3.6120

24 1998cc, (2.0L), SOHC, GAS, FI, 8 Valve, FE, ""TURBO"" FE-T
 1986-87 L4 122 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1986-87 1986-87 SB1812-50 SB1500-54	1 ¹³ / ₁₆ O.D.,1.490T I.D.,0.3070 Depth 1 ¹ / ₂ O.D.,1.180T I.D.,0.3070 Depth
Valve	Int Exh	1986-87 1986-87 10236 10237	1.732 Head Diameter 1.417 Head Diameter
Keeper	Exh	1986-87 121-1026	1 RD Bead Type,0.090 Bead Dia.
Stem Seal	Both	1986-87 122-1132	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1986-87 140-8172	0.3180 I.D.,2.177 Length,0.5531 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both	1986-87 1986-87 160-1096 160-1097	1.720 Length,Inner 1.958 Length,Outer

25 1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 7, 8, E, P, ""SKYACTIV-G"" MAZ2.0-SKYG
 2011-21 L4 122 CID BORE - 83.5mm/3.29"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2012-20 121-1104	1 RD Bead Type

26 2000cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F, G MAZ2.0-DC3
 2004-13 L4 122 CID BORE - 87.5mm/3.44"

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2004-13 2004-13 02006 02007	1.378 Head Diameter 1.181 Head Diameter
Keeper	Both	2004-13 121-1104	1 RD Bead Type
Stem Seal	Int Exh	2004-13 2004-13 122-1410 122-1411	Positive Type,Viton Material,Top Hat Style Positive Type,Viton Material,Top Hat Style
Guide	Both	2004-13 140-3070	0.2170 I.D.,1.535 Length,0.4345 O.D.
Spring	Both	2004-13 160-1568	1.908 Length,Conical
Head Bolt Set		2004-13 220-1111	Torque To Yield,Services Engine
Head Saver Shim		2004-13 230-2144	New Hgt. - Min. Hgt. N/A

27 2000cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F, ""MX-5 Miata"" MAZ2.0-MX5
 2006-15 L4 122 CID BORE - 87.5mm/3.44"

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2006-15 2006-15 02006 02007	1.378 Head Diameter 1.181 Head Diameter
Keeper	Both	2006-15 121-1104	1 RD Bead Type
Stem Seal	Int Exh	2006-15 2006-15 122-1410 122-1411	Positive Type,Viton Material,Top Hat Style Positive Type,Viton Material,Top Hat Style
Guide	Both	2006-15 140-3070	0.2170 I.D.,1.535 Length,0.4345 O.D.

(Cont'd) **MAZDA / PASSENGER CAR OR TRUCK**

2000cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F, ""MX-5 Miata"" MAZ2.0-MX5 **27**
2006-15 L4 122 CID BORE - 87.5mm/3.44"" (cont.)

PART	YEARS	PART NO.	NOTES	
Spring	Both	2006-08	160-1568	1.908 Length,Conical
		2009-15	160-1568	1.908 Length,Conical,W/ Auto Trans.
Head Bolt Set		2006-15	220-1111	Torque To Yield
Head Saver Shim		2006-15	230-2144	New Hgt. - Min. Hgt. N/A

2184cc, (2.2L), SOHC, GAS, CARB, 8 Valve, F2 F2-8VCA **28**
1987-92 L4 133 CID BORE - 87.5mm/3.44""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1987-92	SB1812-50	1 ¹³ / ₁₆ O.D., 1.490T I.D., 0.3070 Depth
	Exh	1987-92	SB1500-54	1 ¹ / ₂ O.D., 1.180T I.D., 0.3070 Depth
Valve	Int	1987-92	10236	1.732 Head Diameter
	Exh	1987-92	10237	1.417 Head Diameter
Keeper		1987-92	121-1026	1 RD Bead Type, 0.090 Bead Dia.
Stem Seal		1987-92	122-1132	Positive Type, Viton Material, Metal Clad Style
Guide		1987-92	140-8172	0.3180 I.D., 2.177 Length, 0.5531 O.D., W/ Snap Ring, +2 O/S Available
Spring	Both	1987-92	160-1096	1.720 Length, Inner
		1987-92	160-1097	1.958 Length, Outer
Lifter		1987-92	VL146	Hydraulic Lash Adjuster Type
Head Saver Shim		1987-92	230-2086	New Hgt. - 3.6200 - 3.6240; Min. Hgt. - 3.6120

2184cc, (2.2L), SOHC, GAS, FI, 8 Valve, F2 F2-8VFI **29**
1990-93 L4 133 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1990-93	SB1812-50	1 ¹³ / ₁₆ O.D., 1.490T I.D., 0.3070 Depth
	Exh	1990-93	SB1500-54	1 ¹ / ₂ O.D., 1.180T I.D., 0.3070 Depth
Valve	Int	1990-93	10236	1.732 Head Diameter
	Exh	1990-93	10237	1.417 Head Diameter
Keeper		1990-93	121-1026	1 RD Bead Type, 0.090 Bead Dia.
Stem Seal		1990-93	122-1132	Positive Type, Viton Material, Metal Clad Style
Guide		1990-93	140-8142	0.2765 I.D., 2.088 Length, 0.4760 O.D., W/ Snap Ring
Spring	Both	1990-93	160-1096	1.720 Length, Inner
		1990-93	160-1097	1.958 Length, Outer
Lifter		1990-93	VL146	Hydraulic Lash Adjuster Type
Head Saver Shim		1990-93	230-2086	New Hgt. - 3.6200 - 3.6240; Min. Hgt. - 3.6120

2184cc, (2.2L), SOHC, GAS, FI, 12 Valve, F2 F2-12VFI **30**
1988-92 L4 133 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-92	SB1375-56	1 ³ / ₈ O.D., 1.102 I.D., 0.2600 Depth
	Exh	1988-92	SB1437-75	1 ⁷ / ₁₆ O.D., 1.175 I.D., 0.2600 Depth
Valve	Int	1988-92	10162	1.280 Head Diameter
	Exh	1988-92	10163	1.339 Head Diameter
Stem Seal		1988-92	122-1149	Positive Type, Viton Material, Metal Clad Style
Guide		1988-92	140-8142	0.2765 I.D., 2.088 Length, 0.4760 O.D., W/ Snap Ring
Lifter		1988-92	VL146	Hydraulic Lash Adjuster Type
Head Saver Shim		1988-92	230-2086	New Hgt. - 3.6200 - 3.6240; Min. Hgt. - 3.6120

MAZDA / PASSENGER CAR OR TRUCK (Cont'd)

31 2184cc, (2.2L), SOHC, GAS, FI, 12 Valve, F2, ""TURBO"" F2-12VT
 1988-92 L4 133 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-92	SB1375-56	1 ³ / ₈ O.D., 1.102 I.D., 0.2600 Depth
	Exh	1988-92	SB1437-75	1 ⁷ / ₁₆ O.D., 1.175 I.D., 0.2600 Depth
Valve	Int	1988-92	10162	1.280 Head Diameter
	Exh	1988-92	10164	1.339 Head Diameter, Inconel
Guide	Both	1988-92	140-8142	0.2765 I.D., 2.088 Length, 0.4760 O.D., W/ Snap Ring
Lifter	Both	1988-92	VL146	Hydraulic Lash Adjuster Type
Head Saver Shim		1988-92	230-2086	New Hgt. - 3.6200 - 3.6240; Min. Hgt. - 3.6120

32 2254cc, (2.3L), DOHC, GAS, FI, 24 Valve, KJ, ""Supercharged"" KJ
 1995-02 V6 137 CID BORE - 80.3mm/3.16""

PART	YEARS	PART NO.	NOTES	
Stem Seal	Int	1995-02	122-1246	Positive Type, Viton Material, Metal Clad Style
	Exh	1995-02	122-1285	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1995-02	140-8187	0.2371 I.D., 1.920 Length, 0.4355 O.D., W/ Snap Ring, Tapered End
	Exh	1995-02	140-8186	0.2371 I.D., 1.920 Length, 0.4355 O.D., W/ Snap Ring

33 2260cc, (2.3L), DOHC, GAS, FI, 16 Valve, Vin 3, 4, L, MZR MAZ2.3-MZR
 2003-10 L4 138 CID BORE - 87.4mm/3.44""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	2003-10	SB1250-62	1 ¹ / ₄ O.D., 1.000 I.D., 0.3050 Depth
Valve	Int	2003-10	02006	1.378 Head Diameter
	Exh	2003-10	02007	1.181 Head Diameter
Keeper	Both	2003-10	121-1104	1 RD Bead Type
Stem Seal	Int	2003-10	122-1410	Positive Type, Viton Material, Top Hat Style
	Exh	2003-10	122-1411	Positive Type, Viton Material, Top Hat Style
Guide	Both	2003-10	140-3070	0.2170 I.D., 1.535 Length, 0.4345 O.D.
Head Bolt Set		2003-10	220-1111	Torque To Yield, Services Engine
Head Saver Shim		2003-10	230-2144	New Hgt. - 4.8818; Min. Hgt. N/A

34 2260cc, (2.3L), DOHC, GAS, FI, 16 Valve, Vin 3, 4, L, M, MZR, ""TURBO"" MAZ2.3T-MZR
 2006-13 L4 138 CID BORE - 87.4mm/3.44""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2006-13	13305	1.378 Head Diameter
	Exh	2006-13	13306	1.181 Head Diameter, Inconel
Keeper	Both	2006-13	121-1104	1 RD Bead Type
Stem Seal	Int	2006-13	122-1454	Positive Type, Viton Material, Top Hat Style
	Exh	2006-13	122-1455	Positive Type, Viton Material, Top Hat Style
Guide	Both	2006-13	140-3162	0.2372 I.D., 1.535 Length, 0.4352 O.D.
Head Bolt Set		2006-13	220-1111	Torque To Yield, Services Engine
Head Saver Shim		2006-13	230-2144	New Hgt. - 4.8818; Min. Hgt. N/A

35 140 C.I., (2.3L), SOHC, GAS, FI, 8 Valve, Vin A, ""Ford"" MAZ140-A
 1994-97 L4 140 CID BORE - 87.4mm/3.44""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1994-97	SB1812-2	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth
	Exh	1994-97	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ¹⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

(Cont'd) **MAZDA / PASSENGER CAR OR TRUCK**

140 C.I., (2.3L), SOHC, GAS, FI, 8 Valve, Vin A, ""Ford""
1994-97 L4 140 CID

MAZ140-A 35
BORE - 87.4mm/3.44"" (cont.)

PART	YEARS	PART NO.	NOTES	
Valve	Int	1994-94	01598	1.735 Head Diameter,W/ .3419 Stem Dia., 4 Groove
		1995-97	01743	1.735 Head Diameter,W/ 7mm Stem Dia., 3 Groove
	Exh	1994-94	01597	1.500 Head Diameter,W/ .3414 Stem Dia., 4 Groove
		1995-97	01744	1.500 Head Diameter,W/ 7mm Stem Dia., 3 Groove
Keeper	Both	1994-94	121-1019	4 RD Bead Type,W/ .341 Stem Dia.
		1995-97	121-1084	3 RD Bead Type,W/ 7mm Stem Dia.
Stem Seal	Int	1994-94	122-1200	Positive Type,Viton Material,Metal Clad Style,W/ .341 Stem Dia.
		1994-94	122-1199	Positive Type,Viton Material,Metal Clad Style,W/ .341 Stem Dia.
	Both	1994-94	122-1075	Positive Type,Viton Material,Ring & Band Style,W/ .341 Stem Dia.
		1995-97	122-1226	Positive Type,Viton Material,Metal Clad Style,W/ 7mm Stem Dia.
Guide	Int	1994-94	140-9206	0.3440 I.D.,2.188 Length,0.5020 O.D.,Flanged,W/ .341 Stem Dia.
		1994-94	140-9846	0.3440 I.D.,2.313 Length,0.5020 O.D.,Flanged,W/ .341 Stem Dia., -5 U/S I.D. Available (140-9846U)
	Both	1995-97	140-8274	0.2765 I.D.,1.930 Length,0.4953 O.D.,W/ 7mm Stem Dia., +2, +3 O/S Available
Spring	Both	1995-97	160-1383	2.020 Length
Lifter	Both	1994-97	VL83	Hydraulic Lash Adjuster Type
Head Bolt Set		1994-94	220-1006	Torque To Yield,Services Engine

140 C.I., (2.3L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin D, H, Z, ""Ford Duratec""

2001-09 L4 140 CID

MAZ140-D 36
BORE - 87.4mm/3.44""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	2001-09	SB1250-62	1¼ O.D.,1.000 I.D.,0.3050 Depth
Valve	Int	2001-09	02006	1.378 Head Diameter
		2001-09	02007	1.181 Head Diameter
Keeper	Both	2001-09	121-1104	1 RD Bead Type
Stem Seal	Int	2001-09	122-1410	Positive Type,Viton Material,Top Hat Style
		2001-09	122-1411	Positive Type,Viton Material,Top Hat Style
Guide	Both	2001-09	140-3070	0.2170 I.D.,1.535 Length,0.4345 O.D.
Spring	Both	2001-06	160-1506	1.776 Length,Conical
		2007-09	160-1568	1.908 Length,Conical
Head Bolt Set		2001-09	220-1111	Torque To Yield,Services Engine
Head Saver Shim		2001-09	230-2144	New Hgt. - Min. Hgt. N/A

152 C.I., (2.5L), DOHC, GAS, FI, 16 Valve, Vin 5, 6, 7, A, H, L, M, ""Ford Duratec""

2009-15 L4 152 CID

MAZ2.5-DC 37
BORE - 88.9mm/3.50""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2009-15	02006	1.378 Head Diameter
		2009-15	02007	1.181 Head Diameter
Keeper	Both	2009-15	121-1104	1 RD Bead Type
Stem Seal	Int	2009-15	122-1410	Positive Type,Viton Material,Top Hat Style
		2009-15	122-1411	Positive Type,Viton Material,Top Hat Style
Guide	Both	2009-15	140-3070	0.2170 I.D.,1.535 Length,0.4345 O.D.

MAZDA / PASSENGER CAR OR TRUCK (Cont'd)

37 152 C.I., (2.5L), DOHC, GAS, FI, 16 Valve, Vin 5, 6, 7, A, H, L, M, ""Ford Duratec"" MAZZ.5-DC
(cont.) 2009-15 L4 152 CID BORE - 88.9mm/3.50""

PART	YEARS	PART NO.	NOTES
Spring	Both	2009-15 160-1568	1.908 Length,Conical

38 152 C.I., (2.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin 3, ""Ford Duratec Hybrid"" MAZZ.5-DCE
2009-10 L4 152 CID BORE - 88.9mm/3.50""

PART	YEARS	PART NO.	NOTES
Valve	Int	2009-10 02006	1.378 Head Diameter
	Exh	2009-10 02007	1.181 Head Diameter
Keeper	Both	2009-10 121-1104	1 RD Bead Type
Stem Seal	Int	2009-10 122-1410	Positive Type,Viton Material,Top Hat Style
	Exh	2009-10 122-1411	Positive Type,Viton Material,Top Hat Style
Guide	Both	2009-10 140-3070	0.2170 I.D.,1.535 Length,0.4345 O.D.
Spring	Both	2009-10 160-1568	1.908 Length,Conical

39 2488cc, (2.5L), DOHC, GAS, FI, 16 Valve, Vin 3, 5, 6, L, M, Y, ""SKYACTIV-G"" MAZZ.5-SKYG
2014-21 L4 152 CID BORE - 88.9mm/3.50""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2014-20 121-1104	1 RD Bead Type

40 2488cc, (2.5L), DOHC, GAS, FI, 16 Valve, Vin Y, ""SKYACTIV-G TURBO"" MAZZ.5-SKYT
2016-20 L4 152 CID BORE - 88.9mm/3.50""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2016-20 121-1104	1 RD Bead Type

41 152 C.I., (2.5L), SOHC, GAS, FI, 8 Valve, Vin C, ""Ford"" MAZZ.5-SC
1998-01 L4 152 CID BORE - 96mm/3.78""

PART	YEARS	PART NO.	NOTES
Valve	Int	1998-01 01743	1.735 Head Diameter
	Exh	1998-01 01744	1.500 Head Diameter
Keeper	Both	1998-01 121-1084	3 RD Bead Type
Stem Seal	Both	1998-01 122-1226	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1998-01 140-8274	0.2765 I.D.,1.930 Length,0.4953 O.D.
Spring	Both	1998-01 160-1383	2.020 Length
Lifter	Both	1998-01 VL83	Hydraulic Lash Adjuster Type

42 2497cc, (2.5L), DOHC, GAS, FI, 24 Valve, KL KL
1993-02 V6 152 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES
Stem Seal	Int	1993-02 122-1246	Positive Type,Viton Material,Metal Clad Style
	Exh	1993-02 122-1285	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1993-02 140-8561	0.2370 I.D.,1.490 Length,0.4358 O.D.,W/ Snap Ring
Lifter	Both	1993-97 VL149	Hydraulic Bucket Type

43 155 C.I., (2.5L), DOHC, GAS, FI, 24 Valve, GY, ""Ford Duratec"" MAZZ.5-GY
2000-01 V6 155 CID BORE - 82.3mm/3.24""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2000-01 SB1375-55	1 $\frac{3}{8}$ O.D.,1.120 I.D.,0.3250 Depth
	Exh	2000-01 SB1125-52	1 $\frac{3}{8}$ O.D.,0.825T I.D.,0.2850 Depth,W/ 1.023 Valve Head Dia.
Valve	Int	2000-01 01728	1.260 Head Diameter

(Cont'd) MAZDA / PASSENGER CAR OR TRUCK

155 C.I., (2.5L), DOHC, GAS, FI, 24 Valve, GY, ""Ford Duratec"" MAZ2.5-GY **43**
 2000-01 V6 155 CID BORE - 82.3mm/3.24"" (cont.)

PART	YEARS	PART NO.	NOTES	
Valve	Exh	2000-01	01729	1.023 Head Diameter
Keeper	Both	2000-01	121-1082	3 RD Bead Type
Stem Seal	Both	2000-01	122-1229	Positive Type, Viton Material, Top Hat Style
Guide	Both	2000-01	140-8560	0.2370 I.D., 1.880 Length, 0.4953 O.D.
Spring	Both	2000-01	160-1490	1.847 Length
Lifter	Both	2000-01	VL107	Hydraulic Lash Adjuster Type
Rocker Components	Both	2000-01	180-1333	Roller Cam Follower

2555cc, (2.6L), SOHC, GAS, CARB, 8 Valve, CE26, ""Mitsubishi"" MAZ-CE26 **44**
 1987-88 L4 156 CID BORE - 91.1mm/3.59""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1987-88	SB1875-51	1 $\frac{7}{8}$ O.D., 1.575T I.D., 0.3170 Depth
	Exh	1987-88	SB1625-56	1 $\frac{5}{8}$ O.D., 1.298T I.D., 0.3170 Depth, +10, +30 O/S Available
Valve	Int	1987-88	10145	1.810 Head Diameter, Round Groove
	Exh	1987-88	10146	1.493 Head Diameter, Round Groove
Keeper	Both	1987-88	121-1039	1 RD Bead Type
Stem Seal	Both	1987-88	122-1075	Positive Type, Viton Material, Ring & Band Style
		1987-88	122-1086	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1987-88	140-7574	0.3150 I.D., 1.848 Length, 0.5143 O.D., +2 O/S Available
	Exh	1987-88	140-7575	0.3150 I.D., 2.046 Length, 0.5145 O.D., W/ Snap Ring, +2 & +6 O/S Available
Spring	Both	1987-88	160-1079	1.960 Length
Lifter	Both	1987-88	VL141	Hydraulic Lash Adjuster Type

2606cc, (2.6L), SOHC, GAS, FI, 12 Valve, G6 G6 **45**
 1989-93 L4 159 CID BORE - 92mm/3.62""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1989-93	SB1437-74	1 $\frac{7}{16}$ O.D., 1.162 I.D., 0.2300 Depth
	Exh	1989-93	SB1500-80	1 $\frac{1}{2}$ O.D., 1.250 I.D., 0.2300 Depth
Valve	Int	1989-93	10243	1.312 Head Diameter
	Exh	1989-93	10244	1.417 Head Diameter
Guide	Both	1989-93	140-8142	0.2765 I.D., 2.088 Length, 0.4760 O.D., W/ Snap Ring
Lifter	Both	1989-93	VL146	Hydraulic Lash Adjuster Type
Head Saver Shim		1989-93	230-2053	New Hgt. - 3.5413 - 3.5452; Min. Hgt. - 3.533

2606cc, (2.6L), SOHC, GAS, FI, 12 Valve, G60 G60 **46**
 1989-94 L4 159 CID BORE - 92mm/3.62""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1989-94	SB1437-74	1 $\frac{7}{16}$ O.D., 1.162 I.D., 0.2300 Depth
	Exh	1989-94	SB1500-80	1 $\frac{1}{2}$ O.D., 1.250 I.D., 0.2300 Depth
Valve	Int	1989-94	10243	1.312 Head Diameter
	Exh	1989-94	10244	1.417 Head Diameter
Stem Seal	Both	1989-94	122-1149	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1989-94	140-8142	0.2765 I.D., 2.088 Length, 0.4760 O.D., W/ Snap Ring
Lifter	Both	1989-94	VL146	Hydraulic Lash Adjuster Type

MAZDA / PASSENGER CAR OR TRUCK (Cont'd)

47 2954cc, (3.0L), SOHC, GAS, FI, 18 Valve, CE, E30, JE39 JE-SC18V
 1988-98 V6 180 CID BORE - 90mm/3.54"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-98	SB1437-66	1 ⁷ / ₁₆ O.D., 1.120 I.D., 0.3000 Depth
	Exh	1988-98	SB1625-62	1 ⁵ / ₈ O.D., 1.320 I.D., 0.3000 Depth
Keeper	Exh	1988-98	121-1026	1 RD Bead Type, 0.090 Bead Dia.
Stem Seal	Int	1988-98	122-1149	Positive Type, Viton Material, Metal Clad Style
	Exh	1988-98	122-1132	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1988-98	140-8205	0.2755 I.D., 1.990 Length, 0.4745 O.D., W/ Snap Ring
Lifter	Both	1988-98	VL146	Hydraulic Lash Adjuster Type

48 2954cc, (3.0L), DOHC, GAS, FI, 18 Valve, JE27, JE48, JE74 JE-DC24V
 1990-95 V6 180 CID BORE - 90mm/3.54"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1990-95	SB1437-75	1 ⁷ / ₁₆ O.D., 1.175 I.D., 0.2600 Depth
	Exh	1990-95	SB1312-57	1 ⁵ / ₁₆ O.D., 1.060 I.D., 0.2800 Depth
Valve	Int	1990-95	10247	1.366 Head Diameter
	Exh	1990-95	10248	1.217 Head Diameter
Stem Seal	Int	1993-95	122-1246	Positive Type, Viton Material, Metal Clad Style
	Exh	1993-95	122-1285	Positive Type, Viton Material, Metal Clad Style
	Both	1990-91	122-1149	Positive Type, Viton Material, Metal Clad Style
		1992-92	122-1147	Positive Type, Viton Material, Metal Clad Style

49 181 C.I., (3.0L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 1, D, G, ""Ford Duratec"" MAZ3.0-DC
 2001-11 V6 181 CID BORE - 89mm/3.504"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	2001-11	SB1250-56	1 ¹ / ₄ O.D., 0.905T I.D., 0.2300 Depth
Valve	Int	2001-11	01787	1.378 Head Diameter
	Exh	2001-11	01788	1.181 Head Diameter
Keeper	Both	2001-11	121-1082	3 RD Bead Type
Stem Seal	Both	2001-11	122-1229	Positive Type, Viton Material, Top Hat Style
Guide	Both	2001-11	140-8560	0.2370 I.D., 1.880 Length, 0.4953 O.D.
Spring	Both	2001-08	160-1490	1.847 Length
Lifter	Both	2001-11	VL107	Hydraulic Lash Adjuster Type
Rocker Components	Both	2001-11	180-1333	Roller Cam Follower
Head Saver Shim	2001-11	230-2130L	Left, New Hgt. - 5.1550 - 5.1630; Min. Hgt. N/A	
	2001-11	230-2130R	Right, New Hgt. - 5.1550 - 5.1630; Min. Hgt. N/A	

50 182 C.I., (3.0L), OHV, FLEX, GAS, FI, 12 Valve, Vin U, V, ""Ford Vulcan"" MAZ3.0-TRU
 1994-07 V6 182 CID BORE - 89mm/3.504"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1994-07	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1994-07	SB1437-3N	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., 7/32 Depth
Valve	Int	1994-99	01536	1.661 Head Diameter, 0.3130 Stem Dia.
		2000-07	02046	1.661 Head Diameter, 7mm Stem Dia.
	Exh	1994-99	01535	1.371 Head Diameter, 0.3125 Stem Dia.
		2000-07	02047	1.371 Head Diameter, 7mm Stem Dia.
Keeper	Both	1994-99	121-1083	3 RD Bead Type
		2000-07	121-1084	3 RD Bead Type, Use W/ 7mm Stem Dia.
Stem Seal	Int	1994-99	122-1065	Positive Type, Viton Material, Ring & Band Style, Use With 5/16 Stem Dia.

(Cont'd) MAZDA / PASSENGER CAR OR TRUCK

182 C.I., (3.0L), OHV, FLEX, GAS, FI, 12 Valve, Vin U, V, ""Ford Vulcan"" MAZ3.0-TRU 50
1994-07 V6 182 CID BORE - 89mm/3.504"" (cont.)

PART	YEARS	PART NO.	NOTES	
Stem Seal	Int	2000-07	122-1357	Positive Type,Viton Material,Ring & Band Style,Green,Use W/ 7mm Stem Dia.
	Exh	1994-99	122-1066	Positive Type,Viton Material,Ring & Band Style,Use With 5/16 Stem Dia.
		2000-07	122-1358	Positive Type,Viton Material,Ring & Band Style,Orange,Use W/7mm Stem Dia.
Guide	Both	1994-99	140-9204	0.3150 I.D.,2.200 Length,0.4390 O.D.,Use With 5/16 Stem Dia.
		2000-07	140-3048	0.2768 I.D.,2.500 Length,0.4747 O.D.,Use W/ 7mm Stem Dia., W/ Seal Boss; NOTE: W/.4747 O.D.
	2000-07	140-3066	0.2768 I.D.,2.200 Length,0.4390 O.D.,Use W/ 7mm Stem Dia., W/O Seal Boss; NOTE: W/.4390 O.D.	
Spring	Both	1994-99	160-1072	1.840 Length
		2000-07	160-1437	1.834 Length,Conical
Lifter	Both	1994-07	VL100	Hydraulic Roller Type
Rocker Components	Both	1994-07	180-1315	Rocker Arm
Push Rod	Both	1994-96	190-1524	5.332 Length
		1997-07	190-1541	5.297 Length
Head Bolt Set		1994-98	220-1005	Torque To Yield,Services Engine; To 7/13/98
		1998-07	220-1096	Torque To Yield,Services Engine; From 7/14/98

213 C.I., (3.5L), DOHC, GAS, FI, 24 Valve, ""Ford Duratec"" MAZ3.5-DC 51
2007-07 V6 213 CID BORE - 92.5mm/3.64""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2007-07	13225	1.457 Head Diameter
	Exh	2007-07	13226	1.220 Head Diameter
Keeper	Both	2007-07	121-1104	1 RD Bead Type
Stem Seal	Both	2007-07	122-1427	Positive Type,Viton Material,Top Hat Style
Spring	Both	2007-07	160-1599	1.858 Length,Conical

227 C.I., (3.7L), DOHC, GAS, FI, 24 Valve, Vin A, B, V, ""Ford Duratec"" MAZ3.7-DC 52
2008-15 V6 227 CID BORE - 95.5mm/3.76""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2008-15	13225	1.457 Head Diameter
	Exh	2008-15	13226	1.220 Head Diameter
Keeper	Both	2008-15	121-1104	1 RD Bead Type
Stem Seal	Both	2008-15	122-1427	Positive Type,Viton Material,Top Hat Style
Spring	Both	2008-14	160-1599	1.858 Length,Conical

4016cc, (4.0L), OHV, GAS, FI, 12 Valve, Vin X, VGE4, ""Ford"" MAZ-245X 53
1991-00 V6 245 CID BORE - 100.3mm/3.95""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1991-00	SB1812-4	1 ³ / ₁₆ O.D.,1 ¹ / ₁₆ I.D.,7/32 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1991-00	SB1437-2	1 ⁷ / ₁₆ O.D.,1 ⁷ / ₃₂ I.D.,7/32 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1991-00	10387	1.712 Head Diameter,+15 O/S Stem Available
	Exh	1991-00	10388	1.358 Head Diameter,+15 O/S Stem Available
Keeper	Int	1991-00	121-1011	1 SQ Bead Type
	Exh	1991-00	121-1083	3 RD Bead Type
Stem Seal	Both	1991-00	122-1067	Positive Type,Viton Material,Metal Clad Style

MAZDA / PASSENGER CAR OR TRUCK (Cont'd)

53 4016cc, (4.0L), OHV, GAS, FI, 12 Valve, Vin X, VGE4, ""Ford"" MAZ-245X
 (cont.) 1991-00 V6 245 CID BORE - 100.3mm/3.95""

PART	YEARS	PART NO.	NOTES	
Guide	Both	1991-00	140-7198	0.3175 I.D.,2.000 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1991-00	140-9198	0.3174 I.D.,2.000 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1991-00	160-1264	2.130 Length
Lifter	Both	1991-00	VL150	Hydraulic Roller Type
Rocker Components	Both	1991-00	180-1008	Rocker Arm
Push Rod	Both	1991-00	190-0471	5.475 Length
Head Bolt Set		1991-00	220-1016	Torque To Yield,Services Engine
Head Saver Shim		1991-00	230-2114L	Left,New Hgt. - N/A; Min. Hgt. - N/A
		1991-00	230-2114R	Right,New Hgt. - N/A; Min. Hgt. - N/A

54 245 C.I., (4.0L), SOHC, GAS, FI, 12 Valve, Vin E, ""Ford"" MAZ-245E
 2001-10 V6 245 CID BORE - 100.3mm/3.95""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2001-10	SB1875-50	1 $\frac{7}{8}$ O.D.,1.640 I.D.,0.2800 Depth,Note: Seat May Need To Be Machined In Order To Achieve Correct Depth
	Exh	2001-10	SB1625-54	1 $\frac{5}{8}$ O.D.,1.329 I.D.,0.2800 Depth
Valve	Int	2001-10	01913	1.811 Head Diameter,Includes Flex-Fuel
	Exh	2001-10	01914	1.535 Head Diameter,Includes Flex-Fuel
Keeper	Both	2001-10	121-1084	3 RD Bead Type
Stem Seal	Both	2001-10	122-1348	Positive Type,Viton Material,Top Hat Style
Guide	Both	2001-10	140-8663	0.2761 I.D.,1.740 Length,0.4724 O.D.,W/ Snap Ring
Spring	Both	2001-10	160-1504	1.696 Length,NOTE: Aftermarket Version Using Non-Ovate Wire, Must Replace All Springs
Lifter	Both	2001-10	VL176	Hydraulic Lash Adjuster Type
Rocker Components	Both	2001-10	180-1325	Roller Cam Follower
Head Bolt Set		2001-10	220-1106	Torque To Yield,Services Engine
Head Saver Shim		2001-10	230-2137L	Left,New Hgt. - 4.864"" - Min. Hgt. - N/A
		2001-10	230-2137R	Right,New Hgt. - 4.864"" - Min. Hgt. - N/A

MAZDA / INDUSTRIAL

Engine	Models	Line No.
4 Cylinder		
1490cc, (1.5L), E5, Gas, SOHC, 8 Valve, ""Forklift""	Forklift	1
1490cc, (1.5L), D5, Gas, DOHC, 16 Valve, ""Forklift""	Forklift	2
1490cc, (1.5L), UA, Gas, OHV, 8 valve, ""Forklift""	Forklift	3
1983cc, (2.0L), VA, Gas, SOHC, 8 Valve, ""Forklift""	Forklift	4
1998cc, (2.0L), FE, Gas, SOHC, 8 valve, ""Forklift""	Forklift	5
2184cc, (2.2L), F2, Gas, SOHC, 8 Valve, ""Forklift""	Forklift, Yale	6

1 1490cc, (1.5L), E5, Gas, SOHC, 8 Valve, ""Forklift"" IND-E5
 L4 90 CID BORE - 76.987mm/3.031""

PART	PART NO.	NOTES	
Valve Seat Insert	Int	SB1562-67	1 $\frac{1}{16}$ O.D.,1.255T I.D.,0.3190 Depth
	Exh	SB1375-54	1 $\frac{3}{8}$ O.D.,1.022T I.D.,0.2300 Depth
Guide	Both	140-8200	0.3165 I.D.,1.992 Length,0.5538 O.D.,W/ Snap Ring,OEM # 817323090

(Cont'd) MAZDA / INDUSTRIAL

1490cc, (1.5L), D5, Gas, DOHC, 16 Valve, ""Forklift"" **D5 2**
 L4 91 CID BORE - 77mm/3.031""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-57	1 $\frac{1}{16}$ O.D.,1.246T I.D.,0.2300 Depth
	Exh	SB1375-54	1 $\frac{3}{8}$ O.D.,1.022T I.D.,0.2300 Depth
Guide	Both	140-8200	0.3165 I.D.,1.992 Length,0.5538 O.D.,W/ Snap Ring,OEM # 817323090

1490cc, (1.5L), UA, Gas, OHV, 8 valve, ""Forklift"" **UA 3**
 L4 91 CID BORE - 75mm/2.953""

PART		PART NO.	NOTES
Valve	Int	13061	1.476 Head Diameter,OEM # 0107-12-111
	Exh	13062S	1.181 Head Diameter,Stellite Face,OEM # 0107-12-121
Stem Seal	Both	122-1382	Positive Type,Viton Material,Metal Clad Style,OEM # 0552-12-127
Guide	Both	140-8171	0.3180 I.D.,2.520 Length,0.5918 O.D.,OEM # 0552-10-104
Spring	Both	160-1513	1.962 Length,OEM # 0552-12-114

1983cc, (2.0L), VA, Gas, SOHC, 8 Valve, ""Forklift"" **VA 4**
 L4 121 CID BORE - 82mm/3.228""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-2	1 $\frac{5}{8}$ O.D.,1 $\frac{3}{8}$ I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material
	Exh	SB1375-3N	1 $\frac{3}{8}$ O.D.,1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth
Valve	Int	10744	1.553 Head Diameter,OEM # 0552-12-111
	Exh	10745	1.181 Head Diameter,OEM # 0552-12-121
Stem Seal	Both	122-1382	Positive Type,Viton Material,Metal Clad Style,OEM # 0552-12-127
Guide	Both	140-8171	0.3180 I.D.,2.520 Length,0.5918 O.D.,OEM # 0552-10-104
Spring	Both	160-1513	1.962 Length,OEM # 0552-12-114

1998cc, (2.0L), FE, Gas, SOHC, 8 valve, ""Forklift"" **IND-FE 5**
 L4 122 CID BORE - 86mm/3.386""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-50	1 $\frac{13}{16}$ O.D.,1.490T I.D.,0.3070 Depth
	Exh	SB1500-54	1 $\frac{1}{2}$ O.D.,1.180T I.D.,0.3070 Depth
Valve	Int	10236	1.732 Head Diameter,OEM # F8012111A, W/ 45 Degree Seat Angle
	Exh	10237	1.417 Head Diameter,OEM # F80112121A, W/ 45 Degree Seat Angle
Keeper	Int	121-1025	1 RD Bead Type
	Exh	121-1026	1 RD Bead Type,0.090 Bead Dia.
Stem Seal	Both	122-1132	Positive Type,Viton Material,Metal Clad Style,OEM # 901274801
Guide	Both	140-8172	0.3180 I.D.,2.177 Length,0.5531 O.D.,W/ Snap Ring,OEM # F8012390; +2 O/S Available
Spring	Both	160-1096	1.720 Length,Inner, OEM # 901294805
		160-1097	1.958 Length,Outer, OEM # 901294804
Head Saver Shim		230-2086	

2184cc, (2.2L), F2, Gas, SOHC, 8 Valve, ""Forklift"" **IND-F2 6**
 L4 133 CID BORE - 86.106mm/3.39""

PART		PART NO.	NOTES
Valve	Int	10236	1.732 Head Diameter,OEM # F80112111A
	Exh	10237	1.417 Head Diameter,OEM # F80112121A
Stem Seal	Both	122-1132	Positive Type,Viton Material,Metal Clad Style,OEM # 901274801
Guide	Both	140-8172	0.3180 I.D.,2.177 Length,0.5531 O.D.,W/ Snap Ring,OEM # F80123090
Spring	Both	160-1096	1.720 Length,Inner, OEM # 901294805
		160-1097	1.958 Length,Outer, OEM # 901294804

MERCEDES-BENZ / HEAVY DUTY

Engine	Models	Line No.
4 Cylinder		
4249cc, (4.3L), OM904, Diesel, OHV, 12 Valve, ""TURBO""		1
4801cc, (4.8L), OM924, Diesel, OHV, 12 Valve, ""TURBO""		2
6 Cylinder		
5657cc, (5.7L), OM352, Diesel, OHV, 12 Valve	Unimog U1100, U1300, Mercedes Benz 353.961	3
6374cc, (6.4L), OM906, Diesel, OHV, 18 Valve, ""TURBO""		4
7201cc, (7.2L), OM926, Diesel, OHV, 18 Valve, ""TURBO""		5
12,798cc, (12.8L), OM460, Diesel, OHV, 24 Valve, ""MBE4000 W/O EGR TURBO""	W/O EGR	6
12,798cc, (12.8L), OM460, Diesel, OHV, 24 Valve, ""MBE4000 With EGR TURBO""	With EGR	7

1 4249cc, (4.3L), OM904, Diesel, OHV, 12 Valve, ""TURBO"" **OM904**
L4 259 CID **BORE - 102.0mm/4.015""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1382E-2	1.382 O.D., 1.102T I.D., 0.3012 Depth, OEM # A9060530131
	Exh	SB1587E-1	1.587 O.D., 1.220R I.D., 0.3150 Depth, OEM # A9060530132, A9060531232
Valve	Int	13360	1.339 Head Diameter, OEM # A9060500326
	Exh	13361	1.496 Head Diameter, OEM # A9060500327
Keeper	Both	121-1132	1 RD Bead Type, OEM # A1020530026
Stem Seal	Both	122-1462	Positive Type, Viton Material, Metal Clad Style, OEM # A9060530358
Guide	Both	140-3176	0.3150 I.D., 2.362 Length, 0.5527 O.D., OEM # A9060530130
Spring	Int	160-1643	1.961 Length, OEM # A9060530120
Injector Tubes and Components		240-1047	Stainless Steel Material, Injector Tube, OEM # A9060170488
		240-1047R	Viton Material, O-Ring, Silver, OEM # A5419970345

2 4801cc, (4.8L), OM924, Diesel, OHV, 12 Valve, ""TURBO"" **OM924**
L4 292 CID **BORE - 106.0mm/4.173""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1382E-2	1.382 O.D., 1.102T I.D., 0.3012 Depth, OEM # A9060530131
	Exh	SB1587E-1	1.587 O.D., 1.220R I.D., 0.3150 Depth, OEM # A9060530132, A9060531232
Valve	Int	13360	1.339 Head Diameter, OEM # A9060500326
	Exh	13361	1.496 Head Diameter, OEM # A9060500327
Keeper	Both	121-1132	1 RD Bead Type, OEM # A1020530026
Stem Seal	Both	122-1462	Positive Type, Viton Material, Metal Clad Style, OEM # A9060530358
Guide	Both	140-3176	0.3150 I.D., 2.362 Length, 0.5527 O.D., OEM # A9060530130
Spring	Int	160-1643	1.961 Length, OEM # A9060530120
Injector Tubes and Components		240-1047	Stainless Steel Material, Injector Tube, OEM # A9060170488
		240-1047R	Viton Material, O-Ring, Silver, OEM # A5419970345

3 5657cc, (5.7L), OM352, Diesel, OHV, 12 Valve **OM352**
L6 345 CID **BORE - 97.0mm/3.819""**

PART		PART NO.	NOTES
Guide	Int	140-3071	0.3550 I.D., 2.835 Length, 0.5920 O.D., OEM # 3520531229
	Exh	140-3072	0.3940 I.D., 2.640 Length, 0.5920 O.D., OEM # A3660530230

(Cont'd) **MERCEDES-BENZ / HEAVY DUTY**

6374cc, (6.4L), OM906, Diesel, OHV, 18 Valve, ""TURBO"" **OM906 4**
L6 389 CID **BORE - 102.0mm/4.015""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1382E-2	1.382 O.D.,1.102T I.D.,0.3012 Depth,OEM # A9060530131
	Exh	SB1587E-1	1.587 O.D.,1.220R I.D.,0.3150 Depth,OEM # A9060530132, A9060531232
Valve	Int	13360	1.339 Head Diameter,OEM # A9060500326
	Exh	13361	1.496 Head Diameter,OEM # A9060500327
Keeper	Both	121-1132	1 RD Bead Type,OEM # A1020530026
Stem Seal	Both	122-1462	Positive Type,Viton Material,Metal Clad Style,OEM # A9060530358
Guide	Both	140-3176	0.3150 I.D.,2.362 Length,0.5527 O.D.,OEM # A9060530130
Spring	Int	160-1643	1.961 Length,OEM # A9060530120
Injector Tubes and Components		240-1047	Stainless Steel Material,Injector Tube,OEM # A9060170488
		240-1047R	Viton Material,O-Ring, Silver,OEM # A5419970345

7201cc, (7.2L), OM926, Diesel, OHV, 18 Valve, ""TURBO"" **OM926 5**
L6 439 CID **BORE - 106.0mm/4.173""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1382E-2	1.382 O.D.,1.102T I.D.,0.3012 Depth,OEM # A9060530131
	Exh	SB1587E-1	1.587 O.D.,1.220R I.D.,0.3150 Depth,OEM # A9060530132, A9060531232
Valve	Int	13360	1.339 Head Diameter,OEM # A9060500326
	Exh	13361	1.496 Head Diameter,OEM # A9060500327
Keeper	Both	121-1132	1 RD Bead Type,OEM # A1020530026
Stem Seal	Both	122-1462	Positive Type,Viton Material,Metal Clad Style,OEM # A9060530358
Guide	Both	140-3176	0.3150 I.D.,2.362 Length,0.5527 O.D.,OEM # A9060530130
Spring	Int	160-1643	1.961 Length,OEM # A9060530120
Injector Tubes and Components		240-1047	Stainless Steel Material,Injector Tube,OEM # A9060170488
		240-1047R	Viton Material,O-Ring, Silver,OEM # A5419970345

12,798cc, (12.8L), OM460, Diesel, OHV, 24 Valve, ""MBE4000 W/O EGR TURBO"" **6**
L6 781 CID **MBE4000**
BORE - 128.0mm/5.039""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1882E-1C	1.882 O.D.,1.595 I.D.,0.3190 Depth,OEM # A5410532531
	Exh	SB1696E-3	1.696 O.D.,1.350R I.D.,0.3190 Depth,OEM # A5410530532
Valve	Int	13379	1.791 Head Diameter,OEM # A4570530001, A4600530001
	Exh	13424	1.618 Head Diameter,OEM # A5410227A; NOTE: 45 Degree
Keeper	Both	121-1142	1 RD Bead Type,OEM # A5410530126
Stem Seal	Both	122-1491	Positive Type,Viton Material,Metal Clad Style,Orange,OEM # A0000535858
Guide	Both	140-3175	0.3547 I.D.,2.402 Length,0.5920 O.D.,OEM # A5410532730; NOTE: Without Internal O-Ring
Spring	Both	160-1648	2.788 Length,W/ Orange & Pink Stripe,OEM # A5410530020
Injector Tubes and Components		240-1047	Stainless Steel Material,Injector Tube,OEM # A9060170488
		240-1047R	Viton Material,O-Ring, Silver,OEM # A5419970345

12,798cc, (12.8L), OM460, Diesel, OHV, 24 Valve, ""MBE4000 With EGR TURBO"" **7**
L6 781 CID **MBE4000-EGR**
BORE - 128.0mm/5.039""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1882E-1C	1.882 O.D.,1.595 I.D.,0.3190 Depth,OEM # A5410532531

MERCEDES-BENZ / HEAVY DUTY (Cont'd)

7 12,798cc, (12.8L), OM460, Diesel, OHV, 24 Valve, ""MBE4000 With EGR
(cont.) TURBO""

L6 781 CID

MBE4000-EGR
BORE - 128.0mm/5.039""

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1696E-4	1.696 O.D., 1.350R I.D., 0.3055 Depth, OEM # A4570531332
Valve	Int	13379	1.791 Head Diameter, OEM # A4570530001, A4600530001
	Exh	13380	1.661 Head Diameter, OEM # A4570500327; NOTE: 36 Degree
Keeper	Both	121-1142	1 RD Bead Type, OEM # A5410530126
Stem Seal	Both	122-1492	Positive Type, Viton Material, Metal Clad Style, Green, OEM # A40000533558
Guide	Both	140-3175	0.3547 I.D., 2.402 Length, 0.5920 O.D., OEM # A5410532730; NOTE: Without Internal O-Ring
Spring	Both	160-1648	2.788 Length, W/ Orange & Pink Stripe, OEM # A5410530020
Injector Tubes and Components		240-1047	Stainless Steel Material, Injector Tube, OEM # A9060170488
		240-1047R	Viton Material, O-Ring, Silver, OEM # A5419970345

MERCEDES-BENZ / PASSENGER CAR

Engine	Models	Line No.
4 Cylinder		
1991cc, (2.0L), DOHC, ELECTRIC/GAS, GAS, FI, 16 Valve, 274.920, ""M274 TURBO"" (2015-21)	C300, C350e, E300, SLC300, SLK300	1
6 Cylinder		
2746cc, (2.8L), DOHC, GAS, CARB, FI, 24 Valve, ""M130"" (1973-80)	280, 280C, 280CE, 280E, 280S, 280SE	2
2987cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, OM642, ""TURBO"" (2007-13)	E320, E350, R320, R350, S350	3
8 Cylinder		
4520cc, (4.5L), SOHC, GAS, FI, 16 Valve, ""M117"" (1972-80)	280SE, 280SEL, 300SEL, 350SL, 450SE, 450SEL, 450SL, 450SLC	4

1 1991cc, (2.0L), DOHC, ELECTRIC/GAS, GAS, FI, 16 Valve, 274.920, ""M274
TURBO""

L4 122 CID

MBZ-274
BORE - 83mm/3.27""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2015-20 121-1098	3 RD Bead Type
Lifter	Both	2015-20 VL561	Hydraulic Lash Adjuster Type

2 2746cc, (2.8L), DOHC, GAS, CARB, FI, 24 Valve, ""M130""

L6 168 CID

MBZ-M130
BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1973-80 SB1625-64	1 $\frac{5}{8}$ O.D., 1.335T I.D., 0.4200 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

3 2987cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, OM642, ""TURBO""

V6 182 CID

MBZ-OM642
BORE - 83mm/3.27""

PART	YEARS	PART NO.	NOTES
Valve	Int	2007-13 13356	1.122 Head Diameter
	Exh	2007-13 13357	1.000 Head Diameter
Keeper	Both	2007-13 121-1098	3 RD Bead Type
Stem Seal	Both	2007-13 122-1456	Positive Type, Viton Material, Metal Clad Style
Spring	Int	2007-13 160-1639	1.830 Length

(Cont'd) **MERCEDES-BENZ / PASSENGER CAR**

2987cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, OM642, ""TURBO"" MBZ-OM642 **3**
2007-13 V6 182 CID BORE - 83mm/3.27"" (cont.)

PART	YEARS	PART NO.	NOTES	
Spring	Exh	2007-13	160-1640	1.835 Length
Lifter	Both	2007-13	VL561	Hydraulic Lash Adjuster Type

4520cc, (4.5L), SOHC, GAS, FI, 16 Valve, ""M117"" MBZ-M117 **4**
1972-80 V8 276 CID BORE - 92mm/3.62""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1972-80	SB1625-64	1 $\frac{1}{8}$ O.D., 1.335T I.D., 0.4200 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

MERCEDES-BENZ TRUCK / PASSENGER TRUCK

Engine	Models	Line No.
4 Cylinder		
1991cc, (2.0L), DOHC, GAS, FI, 16 Valve, 274.920, ""M274 TURBO"" (2016-21)	GLC300, Metris, Sprinter 1500, Sprinter 2500	1
2143cc, (2.1L), DOHC, DIESEL, FI, 16 Valve, 651.955, ""OM651 TURBO"" (2014-17)	Sprinter 2500, Sprinter 3500	2
6 Cylinder		
2987cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, ""OM642 TURBO"" (2010-21)	Sprinter 2500, Sprinter 3500, Sprinter 3500XD	3
3498cc, (3.5L), DOHC, FLEX, GAS, FI, 24 Valve, 276.955, ""M276"" (2012-18)	GLE350, ML350	4
8 Cylinder		
3982cc, (4.0L), DOHC, GAS, FI, 32 Valve, 176.980, ""M176 TURBO"" (2016-21)	G550, G550 4x4	5

1991cc, (2.0L), DOHC, GAS, FI, 16 Valve, 274.920, ""M274 TURBO"" MBT-M274 **1**
2016-21 L4 122 CID BORE - 83mm/3.27""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2016-20	121-1098	3 RD Bead Type
Lifter	Both	2016-20	VL561	Hydraulic Lash Adjuster Type

2143cc, (2.1L), DOHC, DIESEL, FI, 16 Valve, 651.955, ""OM651 TURBO"" MBT-OM651 **2**
2014-17 L4 131 CID BORE - 83.1mm/3.27""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2014-17	121-1098	3 RD Bead Type
Stem Seal	Both	2014-17	122-1456	Positive Type, Viton Material, Metal Clad Style

2987cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, ""OM642 TURBO"" MBT-OM642 **3**
2010-21 V6 183 CID BORE - 83mm/3.27""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2010-20	13356	1.122 Head Diameter, OEM # A6420530401 1.000 Head Diameter, OEM # A6420500527, NOTE Except 642.826 Engine Version
	Exh	2010-20	13357	
Keeper	Both	2010-20	121-1098	3 RD Bead Type, OEM # A0000531126
Stem Seal	Both	2010-20	122-1456	Positive Type, Viton Material, Metal Clad Style, OEM # A0000535658
Spring	Int	2010-20	160-1639	1.830 Length, OEM # A6680530020 1.835 Length, OEM # A6420530320
	Exh	2010-20	160-1640	
Lifter	Both	2010-20	VL561	Hydraulic Lash Adjuster Type, OEM # A6420500080

MERCEDES-BENZ TRUCK / PASSENGER TRUCK (Cont'd)

4 3498cc, (3.5L), DOHC, FLEX, GAS, FI, 24 Valve, 276.955, ""M276"" MBT-M276
 2012-18 V6 213 CID BORE - 93mm/3.66""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2012-18	121-1098	3 RD Bead Type
Lifter	Both	2012-18	VL561	Hydraulic Lash Adjuster Type

5 3982cc, (4.0L), DOHC, GAS, FI, 32 Valve, 176.980, ""M176 TURBO"" MBT-M176
 2016-21 V8 244 CID BORE - 83mm/3.27""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2016-20	121-1098	3 RD Bead Type
Lifter	Both	2016-20	VL561	Hydraulic Lash Adjuster Type

MERCURY / MARINE

Engine	Models	Line No.
4 Cylinder		
153 C.I., (2.5L), 153, Gas, CARB, OHV, 8 Valve, ""Mercuriser GM Engine""	110, 120	1
181 C.I., (3.0L), 181, Gas, CARB, OHV, 8 Valve, ""Mercuriser GM Engine""	140	2
224 C.I., (3.7L), 224, Gas, CARB, OHV, 8 Valve, ""Mercuriser Ford Engine""	470	3
6 Cylinder		
230 C.I., (3.8L), 230, Gas, CARB, OHV, 12 Valve, ""Mercuriser Chevrolet Engine""	150	4
250 C.I., (4.1L), 250, Gas, CARB, OHV, 12 Valve, ""Mercuriser Chevrolet Engine""	140, 160, 165	5
8 Cylinder		
283 C.I., (4.6L), 283, Gas, CARB, OHV, 16 Valve, ""Mercuriser Chevrolet Engine""	190	6
302 C.I., (5.0L), 302, Gas, CARB, OHV, 16 Valve, ""Mercuriser Ford Engine""		7
302 C.I., (5.0L), 302, Gas, CARB, OHV, 16 Valve, ""Mercuriser Chevrolet Engine""		8
305 C.I., (5.0L), 305, Gas, CARB, OHV, 16 Valve, ""Mercuriser Chevrolet Engine""	228	9
350 C.I., (5.7L), 350, Gas, CARB, OHV, 16 Valve, ""Mercuriser Chevrolet Engine""		10
351 C.I., (5.8L), 351, Gas, CARB, OHV, 16 Valve, ""Mercuriser Ford Engine""		11
454 C.I., (7.4L), 454, Gas, CARB, OHV, 16 Valve, ""Mercuriser Chevrolet Engine""	454 Gen IV & V	12
496 C.I., (8.1L), 496 L18, Gas, FI, OHV, 16 Valve, ""Mercuriser GM Vortec 8100 Engine""	496 Mag, 8.1S Horizon	13
502 C.I., (8.2L), 502, Gas, CARB, OHV, 16 Valve, ""Mercuriser Chevrolet Engine""		14

1 153 C.I., (2.5L), 153, Gas, CARB, OHV, 8 Valve, ""Mercuriser GM Engine"" MER153
 L4 153 CID BORE - 98.425mm/3.80""

PART	PART NO.	NOTES	
Valve Seat Insert	Int Exh	SB1812-3 SB1562-9	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth 1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	01193	1.720 Head Diameter, +3 & +15 O/S Stem Available

(Cont'd) MERCURY / MARINE

153 C.I., (2.5L), 153, Gas, CARB, OHV, 8 Valve, ""Mercruiser GM Engine"" MER153 **1**
 L4 153 CID BORE - 98.425mm/3.80"" (cont.)

PART		PART NO.	NOTES
Valve	Exh	01206S	1.500 Head Diameter,Stellite Face,+15 O/S Stem Available, To S/N 3377340
		01646S	1.500 Head Diameter,Inconel, Stellite Face,W/ .3719 Stem Dia., Optional
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type,Tef/Rub Material,1-Ring Style
		122-1037	Umbrella Type,Poly Material,Umbrella Style
		122-1043	O-Ring Type,Nitrile Material,O-Ring Style,Machine Guide To 0.562 O.D.
		122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 11/32 Std. Stem, Use 122-1238 +15 For Oversize Stems
		122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Int	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
Spring	Both	160-1117	2.030 Length,1st Design W/O Rotator
		160-1125	2.050 Length,W/ Damper,2nd Design, W/O Rotator
Lifter	Both	VL37	Hydraulic Type
Rocker Components	Both	181-1012	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		184-1038	Nut, 3/8
		183-1024	Smooth Ball, 3/8
Push Rod	Both	192-1330	9.682 Length

181 C.I., (3.0L), 181, Gas, CARB, OHV, 8 Valve, ""Mercruiser GM Engine"" MER181 **2**
 L4 181 CID BORE - 101.6mm/4.00""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-7	2.000 O.D.,113/16 I.D.,7/32 Depth
	Exh	SB1687-2	111/16 O.D.,17/16 I.D.,7/32 Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	01195	1.940 Head Diameter,+3 & +15 O/S Stem Available
	Exh	00919	1.600 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1077	Positive Type,Viton Material, Ring & Band Style
		122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 11/32 Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	140-7459	0.3430 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		140-9459	0.3430 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	140-7946	0.3430 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		140-9946	0.3430 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1125	2.050 Length,W/ Damper
Lifter	Both	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		VL73	Hydraulic Type
Rocker Components	Both	181-1012	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		184-1038	Nut, 3/8
		183-1024	Smooth Ball, 3/8
Push Rod	Both	192-1330	9.682 Length

MERCURY / MARINE (Cont'd)

3 224 C.I., (3.7L), 224, Gas, CARB, OHV, 8 Valve, ""Mercuriser Ford Engine"" **MER224**
L4 224 CID **BORE - 110.74mm/4.30""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2250-1	2 ¹ / ₄ O.D., 1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia.
Valve	Int	01272	2.083 Head Diameter, Can Be Used To Replace Early Valve W/ Shorter Tip To Groove Length, Must Use Late Spring, +15 O/S Stem Available
	Exh	01271	1.654 Head Diameter, Can Be Used To Replace Early Valve W/ Shorter Tip To Groove Length, Must Use Late Spring, +15 O/S Stem Available
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Both	140-9606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9606U)
Spring	Both	160-1161	2.068 Length, From S/N 4208730. Can Be Used To Replace Long Spring In Full Sets As Long As Late Valves Are Installed.
Lifter	Both	VL35	Hydraulic Type
Rocker Components	Both	180-1233	Rocker Arm, Stamped
		181-1034	Rocker Arm Kit, Includes (1) Stamped R. Arm, (1) Fulcrum, (1) ⁵ / ₁₆ Bolt
		184-1034	Bolt, ⁵ / ₁₆
		183-1022	Fulcrum
Push Rod	Both	190-1425	8.550 Length, +60 O/S (190-1425+60) Available

4 230 C.I., (3.8L), 230, Gas, CARB, OHV, 12 Valve, ""Mercuriser Chevrolet Engine"" **MER230**
L6 230 CID **BORE - 98.425mm/3.80""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth
	Exh	SB1562-9	1 ¹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	01193	1.720 Head Diameter, +3 & +15 O/S Stem Available
	Exh	01206S	1.500 Head Diameter, Stellite Face, +15 O/S Stem Available
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style, 1986 - Early 1987 Guide Height 5.8mm
		122-1074	Positive Type, Viton Material, Ring & Band Style, 1986 - Early 1987 Guide Height 5.8mm
		122-1075	Positive Type, Viton Material, Ring & Band Style
		122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ ¹¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Spring	Both	160-1125	2.050 Length, W/ Damper, W/ Rotator
		160-1148	1.900 Length, W/O Rotator
Lifter	Both	VL117RH	Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train.
		VL73	Hydraulic Type
Rocker Components	Both	181-1012	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut
		184-1038	Nut, ³ / ₈
		183-1024	Smooth Ball, ³ / ₈
Push Rod	Both	192-1330	9.682 Length

5 250 C.I., (4.1L), 250, Gas, CARB, OHV, 12 Valve, ""Mercuriser Chevrolet Engine"" **MER250**
L6 250 CID **BORE - 98.425mm/3.80""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth
	Exh	SB1562-9	1 ¹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material

(Cont'd) MERCURY / MARINE**250 C.I., (4.1L), 250, Gas, CARB, OHV, 12 Valve, ""Mercuriser Chevrolet Engine""****5****MER250 (cont.)****L6 250 CID****BORE - 98.425mm/3.80""**

PART		PART NO.	NOTES
Valve	Int	01193	1.720 Head Diameter,+3 & +15 O/S Stem Available
	Exh	01206S	1.500 Head Diameter,Stellite Face,+15 O/S Stem Available
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type,Tef/Rub Material,1-Ring Style,1986 - Early 1987 Guide Height 5.8mm
		122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		122-1048	Positive Type,Poly Material,2-Ring Style,W/ .341 Stem Dia.; Use W/ Factory Guide Boss
		122-1074 122-1238	Positive Type,Viton Material,Ring & Band Style Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
	Exh	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	160-1125	2.050 Length,W/ Damper,W/ Rotator
		160-1148	1.900 Length,W/O Rotator
Lifter	Both	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		VL73	Hydraulic Type
Rocker Components	Both	181-1012	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut, 3/8 Smooth Ball, 3/8
		184-1038	
		183-1024	
Push Rod	Both	192-1330	9.682 Length

283 C.I., (4.6L), 283, Gas, CARB, OHV, 16 Valve, ""Mercuriser Chevrolet Engine""**6****MER283****V8 283 CID****BORE - 98.425mm/3.80""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	SB1562-9	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	01193	1.720 Head Diameter,+3 & +15 O/S Stem Available
	Exh	01206S	1.500 Head Diameter,Stellite Face,+15 O/S Stem Available
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type,Tef/Rub Material,1-Ring Style
		122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
		122-1074	Positive Type,Viton Material,Ring & Band Style
		122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		322-1003	Positive Type,Teflon Material,All Teflon Style
Guide	Int	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
Spring	Both	160-1117	2.030 Length,W/ 1.220 O.D.
		160-1125	2.050 Length,W/ Damper
		160-1144	2.048 Length,W/ Damper
		160-1144HP	2.023 Length,W/ Damper,Hi-Perf.

MERCURY / MARINE (Cont'd)

6 283 C.I., (4.6L), 283, Gas, CARB, OHV, 16 Valve, ""Mercruiser Chevrolet
(cont.) Engine""

MER283

V8 283 CID

BORE - 98.425mm/3.80""

PART		PART NO.	NOTES
Spring	Both	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Lifter	Both	VL37	Hydraulic Type
Rocker Components	Both	180-1228 180-1239 180-1283 181-1011 181-1049 181-1061 184-1038 183-1017 183-1032	Rocker Arm Rocker Arm, Stamped, Long Slot Rocker Arm, Rail Type,Optional Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) $\frac{3}{8}$ Nut Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) $\frac{3}{8}$ Nut,High Perf., W/ 1.5:1 Ratio Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) $\frac{3}{8}$ Nut,Optional Nut, $\frac{3}{8}$ Smooth Ball, $\frac{3}{8}$ Grooved Ball, $\frac{3}{8}$
Push Rod	Both	192-1331	7.793 Length

7 302 C.I., (5.0L), 302, Gas, CARB, OHV, 16 Valve, ""Mercruiser Ford Engine"" MER302F
V8 302 CID BORE - 101.6mm/4.00""

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1812-3 SB1562-1 SB1625-1	$1\frac{13}{16}$ O.D., $1\frac{1}{2}$ T I.D., $\frac{7}{32}$ Depth $1\frac{9}{16}$ O.D., $1\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.461 Valve Head Dia. $1\frac{5}{8}$ O.D., $1\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.541 Valve Head Dia.
Valve	Int Exh	01328 01237 01327	1.782 Head Diameter,From S/N 4167000, +3 & +15 O/S Stem Available 1.541 Head Diameter,To S/N 4166999, +15 O/S Stem Available 1.461 Head Diameter,From S/N 4167000 To S/N 4615129
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014 122-1038 122-1074 122-1238 322-1003 322-1004	Positive Type,Tef/Rub Material,1-Ring Style Umbrella Type,Poly Material,Umbrella Style Positive Type,Viton Material,Ring & Band Style Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ $1\frac{1}{32}$ Std. Stem, Use 122-1238 +15 For Oversize Stems Positive Type,Teflon Material,All Teflon Style Positive Type,Teflon Material,All Teflon Style
Guide	Both	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Int Exh Both	160-1004 160-1024 160-1041 160-1151	2.060 Length 1.923 Length,W/ Rotator, W/ .185 Wire Dia. 1.965 Length 1.970 Length
Lifter	Both	VL35	Hydraulic Type
Rocker Components	Both	180-1234 180-1238 181-1035 181-1041 184-1022 184-1035 184-1038	Rocker Arm, Stamped Rocker Arm, Cast, Rail Type Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) $\frac{5}{16}$ Bolt Rocker Arm Kit, Includes (1) Cast Rail Type R. Arm, (1) Grooved Ball, (1) $\frac{3}{8}$ Nut, (1) $\frac{5}{16}$ Nut +6 Oversize Stud, $\frac{5}{16}$ Bolt W/Washer, $\frac{5}{16}$,From S/N BEO,001 Nut, $\frac{3}{8}$

(Cont'd) MERCURY / MARINE

302 C.I., (5.0L), 302, Gas, CARB, OHV, 16 Valve, ""Mercuriser Ford Engine"" MER302F 7
V8 302 CID BORE - 101.6mm/4.00"" (cont.)

PART		PART NO.	NOTES
Rocker Components	Both	184-1039	Nut, 5/16
		183-1020	Grooved Ball, 3/8
		183-1022	Fulcrum
		183-1030	Smooth Ball, 3/8
Push Rod	Both	192-1409	6.876 Length,- 60 U/S (192-1409U60) Available

302 C.I., (5.0L), 302, Gas, CARB, OHV, 16 Valve, ""Mercuriser Chevrolet Engine"" MER302GM 8
V8 302 CID BORE - 101.6mm/4.00""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	SB1562-9	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	01193	1.720 Head Diameter,+3 & +15 O/S Stem Available
	Exh	01206S	1.500 Head Diameter,Stellite Face,+15 O/S Stem Available
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type,Tef/Rub Material,1-Ring Style
		122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		122-1048	Positive Type,Poly Material,2-Ring Style,W/ .341 Stem Dia.; Use W/ Factory Guide Boss
		122-1074	Positive Type,Viton Material, Ring & Band Style
		122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
	Exh	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	160-1144	2.048 Length,W/ Damper,Exc. 1976-77 Exh
		160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Lifter	Both	VL37	Hydraulic Type
		VL63	Mechanical High Performance Type
Rocker Components	Both	180-1228	Rocker Arm
		180-1239	Rocker Arm, Stamped, Long Slot
		180-1283	Rocker Arm, Rail Type,Optional
		181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut,High Perf., W/ 1.5:1 Ratio
		181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional
		184-1038	Nut, 3/8
183-1017	Smooth Ball, 3/8		
183-1032	Grooved Ball, 3/8		
Push Rod	Both	192-1331	7.793 Length
Head Bolt Set		220-1018	This bolt is NOT Torque to Yield,1967-69, 2 Required

305 C.I., (5.0L), 305, Gas, CARB, OHV, 16 Valve, ""Mercuriser Chevrolet Engine"" MER305 9
V8 305 CID BORE - 94.894mm/3.70""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth,W/ 1.720 Valve Head Dia.
		SB1937-17	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D., ⁷ / ₃₂ Depth,W/ 1.840 Valve Head Dia.

MERCURY / MARINE (Cont'd)

9 305 C.I., (5.0L), 305, Gas, CARB, OHV, 16 Valve, ""Mercruiser Chevrolet Engine""

MER305

V8 305 CID

BORE - 94.894mm/3.70""

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1562-1	1 ¹⁵ / ₁₆ O.D., 1 ¹⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		SB1562-9	1 ¹⁵ / ₁₆ O.D., 1 ¹⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material, From S/N 4765100
Valve	Int	01193	1.720 Head Diameter, +3 & +15 O/S Stem Available
		01393	1.840 Head Diameter, +3 & +15 O/S Stem Available
	Exh	01206S	1.500 Head Diameter, Stellite Face, W/ .341 Stem Dia., +15 O/S Stem Available
		01294S	1.500 Head Diameter, Stellite Face, W/ .3718T Stem Dia., +15 O/S Stem Available
		01646S	1.500 Head Diameter, Inconel, Stellite Face, W/ .3719 Stem Dia., Optional
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Exh	122-1234	Umbrella Type, Nylon Material, Umbrella Style
	Both	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style
		122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		122-1048	Positive Type, Poly Material, 2-Ring Style, W/ .341 Stem Dia.; Use W/ Factory Guide Boss
		122-1074	Positive Type, Viton Material, Ring & Band Style
		122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ ¹¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
Spring	Exh	160-1009	1.910 Length, W/ Damper
	Both	160-1144	2.048 Length, W/ Damper, Exc. 1976-77 Exh
		160-1144HP	2.023 Length, W/ Damper, Hi-Perf.
		160-1407	2.140 Length, W/ Damper, Optional Hi-Perf.
Lifter	Both	VL37	Hydraulic Type
Rocker Components	Both	180-1228	Rocker Arm
		180-1239	Rocker Arm, Stamped, Long Slot
		180-1283	Rocker Arm, Rail Type, Optional
		181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut
		181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) ³ / ₈ Nut, High Perf., W/ 1.5:1 Ratio
		181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) ³ / ₈ Nut, Optional
		184-1038	Nut, ³ / ₈
		183-1017	Smooth Ball, ³ / ₈
		183-1032	Grooved Ball, ³ / ₈
Push Rod	Both	192-1331	7.793 Length

10 350 C.I., (5.7L), 350, Gas, CARB, OHV, 16 Valve, ""Mercruiser Chevrolet Engine""

MER350

V8 350 CID

BORE - 101.6mm/4.00""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth, W/ 1.720 Valve Head Dia.
		SB2000-7	2.000 O.D., 1 ¹³ / ₁₆ I.D., ⁷ / ₃₂ Depth, W/ 1.940 Valve Head Dia.
	Exh	SB1562-1	1 ¹⁵ / ₁₆ O.D., 1 ¹⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		SB1562-1N	1 ¹⁵ / ₁₆ O.D., 1 ¹⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, Optional ""N"" Material
		SB1562-9	1 ¹⁵ / ₁₆ O.D., 1 ¹⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material
		SB1625-3N	1 ⁵ / ₈ O.D., 1 ¹⁵ / ₁₆ I.D., ¹ / ₄ Depth, For Vortec Heads W/ Factory Installed Seats
Valve	Int	01193	1.720 Head Diameter, 0.342 Stem Dia., +3 & +15 O/S Stem Available

(Cont'd) MERCURY / MARINE**350 C.I., (5.7L), 350, Gas, CARB, OHV, 16 Valve, ""Mercuriser Chevrolet Engine""****10**
MER350 (cont.)**V8 350 CID****BORE - 101.6mm/4.00""**

PART		PART NO.	NOTES
Valve	Int	01195	1.940 Head Diameter,+3 & +15 O/S Stem Available
		01762R	1.940 Head Diameter,Vortec Heads
	Exh	01206S	1.500 Head Diameter,Stellite Face,+15 O/S Stem Available
		01294S	1.500 Head Diameter,Stellite Face,Chrome Plated, W/ .3718T Stem Dia., +15 O/S Stem Available
		01646S 01807S	1.500 Head Diameter,Inconel, Stellite Face,W/ .3719 Stem Dia., Optional 1.500 Head Diameter,Stellite Face,W/O Seal Groove, Vortec Heads, +15 O/S Stem Available
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type,Tef/Rub Material,1-Ring Style
		122-1037	Umbrella Type,Poly Material,Umbrella Style
		122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		122-1048	Positive Type,Poly Material,2-Ring Style,W/ .341 Stem Dia.; Use W/ Factory Guide Boss
		122-1074	Positive Type,Viton Material,Ring & Band Style
		122-1234	Umbrella Type,Nylon Material,Umbrella Style
		122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		122-1270	Umbrella Type,Viton Material,Umbrella Style
		322-1003 322-1004	Positive Type,Teflon Material,All Teflon Style,With 0.500 Guide Boss Positive Type,Teflon Material,All Teflon Style,With 0.531 Guide Boss
Guide	Int	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
		Exh	140-7999	0.3740 I.D.,2.200 Length,0.6205 O.D.,W/ Replaceable Exh. Guide, Use Caution When Removing Stepped O.D., NOTE: Drive Guide Out Toward Spring Seat
	Both		140-9946	0.3430 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
		140-8180	0.3430 I.D.,2.275 Length,0.5577 O.D.,Aluminum Heads, +2 O/S Available
Spring	Exh	160-1009	1.910 Length,W/ Damper
	Both	160-1144	2.048 Length,W/ Damper,Exc. 1973-80 Exh
		160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Rotator	Exh	161-1012	
Lifter	Both	VL37	Hydraulic Type
Rocker Components	Both	180-1228	Rocker Arm
		180-1239	Rocker Arm, Stamped, Long Slot
		180-1283	Rocker Arm, Rail Type,Optional
		181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut,High Perf., W/ 1.5:1 Ratio
		181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional
		184-1038	Nut, 3/8
		183-1017	Smooth Ball, 3/8
		183-1032	Grooved Ball, 3/8
Push Rod	Both	192-1331	7.793 Length

351 C.I., (5.8L), 351, Gas, CARB, OHV, 16 Valve, ""Mercuriser Ford Engine""**11**
MER351**V8 351 CID****BORE - 101.6mm/4.00""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1937-17	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D., ⁷ / ₃₂ Depth
	Exh	SB1625-1	1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

MERCURY / MARINE (Cont'd)

11 351 C.I., (5.8L), 351, Gas, CARB, OHV, 16 Valve, ""Mercruiser Ford Engine"" MER351
 (cont.) V8 351 CID BORE - 101.6mm/4.00""

PART		PART NO.	NOTES
Valve	Int	01238	1.842 Head Diameter,+15 O/S Stem Available
	Exh	01237	1.541 Head Diameter,+15 O/S Stem Available
Keeper	Exh	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type,Tef/Rub Material,1-Ring Style
		122-1047	Positive Type,Poly Material,2-Ring Style
		122-1074	Positive Type,Viton Material, Ring & Band Style
		322-1003	Positive Type,Teflon Material,All Teflon Style
Guide	Both	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Int	160-1044	2.040 Length
	Exh	160-1024	1.923 Length
Lifter	Both	VL35	Hydraulic Type
Rocker Components	Both	180-1234	Rocker Arm, Stamped
		180-1238	Rocker Arm, Cast, Rail Type
		181-1035	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) 5/16 Bolt
		181-1041	Rocker Arm Kit, Includes (1) Cast Rail Type R. Arm, (1) Grooved Ball, (1) 3/8 Nut, (1) 5/16 Nut
		184-1035	Bolt W/Washer, 5/16,From S/N BEO,001
		184-1039	Nut, 5/16
		183-1020	Grooved Ball, 3/8,W/ Cast Rocker Arms, 3/8 & 5/16 Nuts
		183-1022	Fulcrum
		183-1030	Smooth Ball, 3/8,W/ Cast Rocker Arms, 3/8 & 5/16 Nuts
Push Rod	Both	190-1443	8.182 Length,W/ Stamped Rocker Arms
		192-1399	8.152 Length,W/ Cast Iron Rocker Arms

12 454 C.I., (7.4L), 454, Gas, CARB, OHV, 16 Valve, ""Mercruiser Chevrolet Engine"" MER454
 V8 454 CID BORE - 107.95mm/4.20""

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB2250-35	2 1/4 O.D., 1 15/16 I.D., 7/32 Depth
		SB1812-4N	1 19/16 O.D., 1 9/16 I.D., 7/32 Depth,W/ 1.720 Valve Head Dia.
		SB2000-3N	2.000 O.D., 1 5/8 I.D., 19/64 Depth,Universal Oversize To Replace Factory Installed Seat W/ 1.881 Valve Head Dia.
Valve	Int Exh	01164	2.190 Head Diameter,From S/N 4501641 To S/N 4623114
		01261S	1.720 Head Diameter,Stellite Face,+15 O/S Stem Available
		01578S	1.720 Head Diameter,Inconel, Stellite Face,Optional
		01600	1.881 Head Diameter,Inconel
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type,Tef/Rub Material,1-Ring Style
		122-1031	Positive Type,Poly Material,2-Ring Style
		122-1045	Umbrella Type,Poly Material,Umbrella Style,For Use W/ Single Spring
Guide	Int	140-1973	0.3735 I.D.,2.420 Length,0.6255 O.D.
	Exh	140-1972	0.3740 I.D.,2.630 Length,0.6203 O.D.,Cast Iron Heads, Use Caution When Removing Stepped O.D.
Spring	Both	160-1003	2.120 Length,Dual Spring,111# @1.880 / 331# @1.380
		160-1011	2.078 Length,W/ Damper,Single Spring
		160-1141	2.050 Length,W/ Damper
		160-1507	2.162 Length,Conical
Rotator	Exh	161-1013	
Lifter	Both	VL163	Hydraulic Roller Type

(Cont'd) MERCURY / MARINE**454 C.I., (7.4L), 454, Gas, CARB, OHV, 16 Valve, ""Mercuriser Chevrolet Engine""****12**

MER454 (cont.)

V8 454 CID

BORE - 107.95mm/4.20""

PART		PART NO.	NOTES
Lifter	Both	VL37 VL63 VL73	Hydraulic Type Mechanical High Performance Type Hydraulic Type, Gen V
Rocker Components	Both	180-1229 181-1014 181-1048 184-1040 183-1026	Rocker Arm Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 7/16 Nut, High Perf. Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 7/16 Nut, High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More Nut, 7/16 Grooved Ball, 7/16
Push Rod	Int Exh	192-1337 192-1336	8.280 Length, First Design, 0.375 Dia. 9.252 Length, First Design, 0.375 Dia.

496 C.I., (8.1L), 496 L18, Gas, FI, OHV, 16 Valve, ""Mercuriser GM Vortec 8100 Engine""**13**

MER496

V8 496 CID

BORE - 108mm/4.25""

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB2250-1 SB1784E-1N	2 1/4 O.D., 1 15/16 I.D., 3/16 Depth, Non-Tapered I.D., Must Machine I.D. To Fit 1.784 O.D., 1.417T I.D., 0.2920 Depth, W/ Factory Installed Exh. Seat, Due To Seat Pocket Variances, Seat May Need To Be Topped
Valve	Int Exh	01164 02101 02126S	2.190 Head Diameter, Stainless Steel Alternate 2.187 Head Diameter 1.720 Head Diameter, Inconel, Stellite Face
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1345	Positive Type, Viton Material, Metal Clad Style
Guide	Int Exh	140-3025 140-3024	0.3735 I.D., 2.250 Length, 0.6265 O.D., Replaces Factory Integral Guide 0.3735 I.D., 2.620 Length, 0.6203 O.D., Guide MUST Be Removed From Spring Side Toward Combustion Chamber Of Cylinder Head
Spring	Both	160-1610	2.190 Length, Conical, OEM # 881672, 881672001
Rotator	Exh	161-1053	
Lifter	Both	VL163	Hydraulic Roller Type
Rocker Components	Both	180-1328 183-1035 184-1033	Rocker Arm, Stamped Smooth Ball, 7/16 Nut, 8mm
Push Rod	Int Exh	192-1510 192-1509	8.190 Length 9.132 Length
Head Bolt Set	Both	220-1084	Torque To Yield, 2 Required

502 C.I., (8.2L), 502, Gas, CARB, OHV, 16 Valve, ""Mercuriser Chevrolet Engine""**14**

MER502

V8 502 CID

BORE - 114mm/4.47""

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB2250-35 SB1812-4N SB2000-3N	2 1/4 O.D., 1 15/16 I.D., 7/32 Depth 1 13/16 O.D., 1 1/16 I.D., 7/32 Depth, W/ 1.720 Valve Head Dia. 2.000 O.D., 1 5/8 I.D., 19/64 Depth, Universal Oversize To Replace Factory Installed Seat W/ 1.881 Valve Head Dia.
Valve	Int Exh	01164 01261S 01578S 01600	2.190 Head Diameter 1.720 Head Diameter, Stellite Face, +15 O/S Stem Available 1.720 Head Diameter, Inconel, Stellite Face, Optional 1.881 Head Diameter, Inconel

MERCURY / MARINE (Cont'd)

14 502 C.I., (8.2L), 502, Gas, CARB, OHV, 16 Valve, ""Mercruiser Chevrolet
(cont.) Engine""

MER502

V8 502 CID

BORE - 114mm/4.47""

PART		PART NO.	NOTES
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type,Tef/Rub Material,1-Ring Style
		122-1031	Positive Type,Poly Material,2-Ring Style
		122-1045	Umbrella Type,Poly Material,Umbrella Style,For Use W/ Single Spring
Guide	Int	140-1973	0.3735 I.D.,2.420 Length,0.6255 O.D.
	Exh	140-1972	0.3740 I.D.,2.630 Length,0.6203 O.D.,Cast Iron Heads, Use Caution When Removing Stepped O.D.
		140-8256	0.3740 I.D.,2.755 Length,0.6205 O.D.,Gen VI
Spring	Both	160-1003	2.120 Length,Dual Spring,111# @1.880 / 331# @1.380
		160-1011	2.078 Length,W/ Damper,Single Spring
		160-1141	2.050 Length,W/ Damper
		160-1507	2.162 Length,Conical
Rotator	Exh	161-1013	
Lifter	Both	VL163	Hydraulic Roller Type
		VL37	Hydraulic Type
		VL63	Mechanical High Performance Type
		VL73	Hydraulic Type,Gen V
Rocker Components	Both	180-1229	Rocker Arm
		181-1014	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 7/16 Nut,High Perf.
		181-1048	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 7/16 Nut,High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More
		184-1040	Nut, 7/16
183-1026	Grooved Ball, 7/16		
Push Rod	Int	192-1337	8.280 Length,First Design, 0.375 Dia.
	Exh	192-1336	9.252 Length,First Design, 0.375 Dia.

MINI / PASSENGER CAR

Engine	Models	Line No.
4 Cylinder		
1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, N12B16A (2007-10)	Cooper	1
1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, N14B16A, ""TURBO"" (2007-10)	Cooper S, Cooper S Clubman	2
1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, N14B16C, ""TURBO"" (2009-12)	Cooper	3
1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, N16B16A (2011-16)	Cooper, Cooper Countryman, Cooper Paceman	4
1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, N18B16A, ""TURBO"" (2011-16)	Cooper, Cooper Countryman, Cooper Paceman	5
1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, N18B16C, ""TURBO"" (2013-16)	Cooper, Cooper Countryman, Cooper Paceman	6
1600cc, (1.6L), SOHC, GAS, FI, 16 Valve, W10B16A (2002-08)	Cooper	7
1600cc, (1.6L), SOHC, GAS, FI, 16 Valve, W11B16A ""Supercharged"" (2002-08)	Cooper	8
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, B48A20B, ""TURBO"" (2015-21)	Cooper, Cooper Clubman, Cooper Countryman	9

(Cont'd) **MINI / PASSENGER CAR**

1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, N12B16A **N12B16A 1**
2007-10 L4 97 CID **BORE - 77mm/3.03"**

PART		YEARS	PART NO.	NOTES
Valve	Int	2007-10	13321	1.181 Head Diameter
	Exh	2007-10	13322S	0.990 Head Diameter,Stellite Face
Keeper	Both	2007-10	121-1131	3 RD Bead Type
Stem Seal	Both	2007-10	122-1453	Positive Type,Viton Material,Top Hat Style
Spring	Both	2007-10	160-1625	1.700 Length,Conical

1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, N14B16A, ""TURBO"" **N14B16A 2**
2007-10 L4 97 CID **BORE - 77mm/3.03"**

PART		YEARS	PART NO.	NOTES
Valve	Int	2007-10	13323	1.134 Head Diameter
	Exh	2007-10	13325SN	1.031 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2007-10	121-1131	3 RD Bead Type
Stem Seal	Both	2007-10	122-1453	Positive Type,Viton Material,Top Hat Style
Guide	Both	2007-10	140-3169BR	0.1970 I.D.,1.750 Length,0.3560 O.D.
Spring	Both	2007-10	160-1625	1.700 Length,Conical
Head Saver Shim		2007-10	230-2168	New Hgt. N/A

1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, N14B16C, ""TURBO"" **N14B16C 3**
2009-12 L4 97 CID **BORE - 77mm/3.03"**

PART		YEARS	PART NO.	NOTES
Valve	Int	2009-10	13323	1.134 Head Diameter
	Exh	2011-12	13324	1.169 Head Diameter
		2009-12	13325SN	1.031 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2009-12	121-1131	3 RD Bead Type
Stem Seal	Both	2009-12	122-1453	Positive Type,Viton Material,Top Hat Style
Guide	Both	2009-12	140-3169BR	0.1970 I.D.,1.750 Length,0.3560 O.D.
Spring	Both	2009-12	160-1625	1.700 Length,Conical
Head Saver Shim		2009-12	230-2168	New Hgt. N/A

1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, N16B16A **N16B16A 4**
2011-16 L4 97 CID **BORE - 77mm/3.03"**

PART		YEARS	PART NO.	NOTES
Valve	Int	2011-16	13321	1.181 Head Diameter
	Exh	2011-16	13322S	0.990 Head Diameter,Stellite Face
Keeper	Both	2011-16	121-1131	3 RD Bead Type
Stem Seal	Both	2011-16	122-1453	Positive Type,Viton Material,Top Hat Style
Spring	Both	2011-16	160-1625	1.700 Length,Conical

1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, N18B16A, ""TURBO"" **N18B16A 5**
2011-16 L4 97 CID **BORE - 77mm/3.03"**

PART		YEARS	PART NO.	NOTES
Valve	Int	2011-16	13324	1.169 Head Diameter
	Exh	2011-16	13325SN	1.031 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2011-16	121-1131	3 RD Bead Type
Stem Seal	Both	2011-16	122-1453	Positive Type,Viton Material,Top Hat Style
Spring	Both	2011-16	160-1625	1.700 Length,Conical

MINI / PASSENGER CAR (Cont'd)

6 1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, N18B16C, ""TURBO"" N18B16C
 2013-16 L4 97 CID BORE - 77mm/3.03""

PART		YEARS	PART NO.	NOTES
Valve	Int	2013-16	13324	1.169 Head Diameter
	Exh	2013-16	13325SN	1.031 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2013-16	121-1131	3 RD Bead Type
Stem Seal	Both	2013-16	122-1453	Positive Type,Viton Material,Top Hat Style
Spring	Both	2013-16	160-1625	1.700 Length,Conical

7 1600cc, (1.6L), SOHC, GAS, FI, 16 Valve, W10B16A W10B16A
 2002-08 L4 98 CID BORE - 77mm/3.03""

PART		YEARS	PART NO.	NOTES
Valve	Int	2002-06	13222	1.191 Head Diameter
		2007-08	13321	1.181 Head Diameter
	Exh	2002-06	13223	0.915 Head Diameter,Inconel
		2007-08	13322S	0.990 Head Diameter,Stellite Face
Keeper	Both	2002-06	121-1087	3 RD Bead Type
		2007-08	121-1131	3 RD Bead Type
Stem Seal	Both	2002-06	122-1251	Positive Type,Viton Material,Top Hat Style
		2007-08	122-1453	Positive Type,Viton Material,Top Hat Style
Guide	Both	2002-06	140-3168	0.2361 I.D., 1.655 Length,0.4355 O.D.
Spring	Both	2002-06	160-1601	2.017 Length
		2007-08	160-1625	1.700 Length,Conical
Head Saver Shim		2002-08	230-2167	New Hgt. 3.820

8 1600cc, (1.6L), SOHC, GAS, FI, 16 Valve, W11B16A ""Supercharged"" W11B16A
 2002-08 L4 98 CID BORE - 77mm/3.03""

PART		YEARS	PART NO.	NOTES
Valve	Int	2002-06	13222	1.191 Head Diameter
		2007-08	13323	1.134 Head Diameter
	Exh	2002-06	13223	0.915 Head Diameter,Inconel
		2007-08	13325SN	1.031 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2002-06	121-1087	3 RD Bead Type
		2007-08	121-1131	3 RD Bead Type
Stem Seal	Both	2002-06	122-1251	Positive Type,Viton Material,Top Hat Style
		2007-08	122-1453	Positive Type,Viton Material,Top Hat Style
Guide	Both	2002-06	140-3168	0.2361 I.D., 1.655 Length,0.4355 O.D.
		2007-08	140-3169BR	0.1970 I.D., 1.750 Length,0.3560 O.D.
Spring	Both	2002-06	160-1601	2.017 Length
		2007-08	160-1625	1.700 Length,Conical
Head Saver Shim		2002-08	230-2167	New Hgt. 3.820

9 1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, B48A20B, ""TURBO"" B48A20B
 2015-21 L4 122 CID BORE - 82mm/3.23""

PART		YEARS	PART NO.	NOTES
Keeper	Both	2015-20	121-1131	3 RD Bead Type,NOTE: Intake Only In 2020 Model

MINNEAPOLIS MOLINE / HEAVY DUTY

Engine	Models	Line No.
4 Cylinder		
220 C.I., (3.6L), 220A4, Gas, OHV, 8 Valve		1
283 C.I., (4.6L), 283A4, Gas, OHV, 8 Valve		2

(Cont'd) **MINNEAPOLIS MOLINE / HEAVY DUTY**

Engine		Models		Line No.
4 Cylinder				
336 C.I., (5.5L), 336-4, Gas, OHV, 8 Valve				3
403 C.I., (6.6L), 403-4, Gas, OHV, 8 Valve				4
6 Cylinder				
425 C.I., (7.0L), 425-6A, LPG, OHV, 12 Valve				5
605 C.I., (9.9L), 605-6A, Gas, OHV, 12 Valve				6
800 C.I., (13.1L), HD800-6A, LPG, OHV, 12 Valve		From S/N 27000 000		7
12 Cylinder				
1210 C.I., (19.8L), 1210-12A, Gas, OHV, 24 Valve				8
220 C.I., (3.6L), 220A4, Gas, OHV, 8 Valve				220_A4 1
L4 220 CID		BORE - 95.3mm/3.752"		
PART		PART NO.		NOTES
Guide	Both	140-1974	0.3445 I.D.,2.310 Length,0.6260 O.D.	
283 C.I., (4.6L), 283A4, Gas, OHV, 8 Valve				283_A4 2
L4 283 CID		BORE - 107.9mm/4.248"		
PART		PART NO.		NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material	
	Exh	SB1625-1N		1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int	00160	1.718 Head Diameter,OEM # KE283B	
	Exh	00159	1.594 Head Diameter,OEM # KE284B	
Keeper	Both	121-1006	2 RD Bead Type,OEM # 10A6555	
Stem Seal	Both	122-1225	Positive Type,Tef/Rub Material,1-Ring Style,OEM # 10A27215	
Guide	Both	140-1914	0.4370 I.D.,3.125 Length,0.7515 O.D.,OEM # 10A6912	
		140-7371	0.4365 I.D.,3.000 Length,0.7510 O.D.,Machined For Seal, OEM # 10A26421	
336 C.I., (5.5L), 336-4, Gas, OHV, 8 Valve				336-4 3
L4 336 CID		BORE - 117.4mm/4.622"		
PART		PART NO.		NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material	
	Exh	SB1625-1N		1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int	00160	1.718 Head Diameter,OEM # KE283B	
	Exh	00159	1.594 Head Diameter,OEM # 10A10073	
Keeper	Both	121-1006	2 RD Bead Type,OEM # 10A6555	
Stem Seal	Both	122-1225	Positive Type,Tef/Rub Material,1-Ring Style,OEM # 10A27215	
Guide	Both	140-1914	0.4370 I.D.,3.125 Length,0.7515 O.D.,OEM # 10A6912	
		140-7371	0.4365 I.D.,3.000 Length,0.7510 O.D.,Machined For Seal, OEM # 10A26421	
403 C.I., (6.6L), 403-4, Gas, OHV, 8 Valve				403_4 4
L4 403 CID		BORE - 117.4mm/4.622"		
PART		PART NO.		NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material	
	Exh	SB1750-9		1 ³ / ₄ O.D.,1 ³ / ₈ I.D., ⁵ / ₁₆ Depth
Valve	Int	00160	1.718 Head Diameter,OEM # KE283B	
	Exh	00159	1.594 Head Diameter,OEM # KE284B	
Keeper	Both	121-1006	2 RD Bead Type,OEM # 10A6555	
Stem Seal	Both	122-1225	Positive Type,Tef/Rub Material,1-Ring Style,OEM # 10A27215	

MINNEAPOLIS MOLINE / HEAVY DUTY (Cont'd)

4 403 C.I., (6.6L), 403-4, Gas, OHV, 8 Valve 403_4
 (cont.) L4 403 CID BORE - 117.4mm/4.622"

PART		PART NO.	NOTES
Guide	Both	140-1914 140-7371	0.4370 I.D.,3.125 Length,0.7515 O.D.,OEM # 10A6912 0.4365 I.D.,3.000 Length,0.7510 O.D.,Machined For Seal, OEM # 10A26421

5 425 C.I., (7.0L), 425-6A, LPG, OHV, 12 Valve 425_6_A
 L6 425 CID BORE - 107.9mm/4.248"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1812-5 SB1625-1N	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material 1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int Exh	00160 00159	1.718 Head Diameter,OEM # 10R35 1.594 Head Diameter,OEM # 10R36
Keeper	Both	121-1006	2 RD Bead Type,OEM # 10A6555
Stem Seal	Both	122-1225	Positive Type,Tef/Rub Material,1-Ring Style,OEM # 10A27215
Guide	Int Exh	140-7421 140-7420	0.4370 I.D.,4.375 Length,0.7510 O.D.,OEM # 10A29502 0.4370 I.D.,3.875 Length,0.7510 O.D.,OEM # 10A29501

6 605 C.I., (9.9L), 605-6A, Gas, OHV, 12 Valve 605_6A
 L6 605 CID BORE - 117.4mm/4.622"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1812-5 SB1625-1N	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material 1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int Exh	00160 00159	1.718 Head Diameter,OEM # 10R35 1.594 Head Diameter,OEM # 10R36
Keeper	Both	121-1006	2 RD Bead Type,OEM # 10A6555
Stem Seal	Both	122-1225	Positive Type,Tef/Rub Material,1-Ring Style,OEM # 10A27215
Guide	Both	140-1914 140-7371	0.4370 I.D.,3.125 Length,0.7515 O.D.,OEM # 10A6912 0.4365 I.D.,3.000 Length,0.7510 O.D.,Machined For Seal, OEM # 10A26421

7 800 C.I., (13.1L), HD800-6A, LPG, OHV, 12 Valve HD800_6A
 L6 800 CID BORE - 134.925mm/5.312"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB2562-1 SB2187-1C	2 ⁹ / ₁₆ O.D.,2 ³ / ₁₆ I.D., ¹ / ₄ Depth 2 ³ / ₁₆ O.D.,1 ¹³ / ₁₆ I.D., ¹ / ₄ Depth,Stellite
Valve	Int Exh	00983 00982S 01474S	2.375 Head Diameter,From S/N 27000000, OEM # 10A20408 2.000 Head Diameter,Stellite Face,From S/N 27000000 45 Degree Seat, OEM # 10A19206 2.000 Head Diameter,Stellite Face,30 Degree Seat, OEM # 10A26125
Stem Seal	Both	122-1207	Positive Type,Tef/Rub Material,1-Ring Style,OEM # 10A20420
Guide	Both	140-7372	0.4990 I.D.,3.500 Length,0.8135 O.D.,OEM # 10A26467
Spring	Both	160-1429	3.302 Length,OEM # 10A19116

8 1210 C.I., (19.8L), 1210-12A, Gas, OHV, 24 Valve 1210_12A
 V12 1210 CID BORE - 117.4mm/4.622"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1812-5 SB1625-1N	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material 1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int Exh	00160 00159	1.718 Head Diameter,OEM # 10R35 1.594 Head Diameter,OEM # 10R36
Keeper	Both	121-1006	2 RD Bead Type,OEM # 10A6555

(Cont'd) **MINNEAPOLIS MOLINE / HEAVY DUTY**

1210 C.I., (19.8L), 1210-12A, Gas, OHV, 24 Valve
V12 1210 CID

1210_12A 8
BORE - 117.4mm/4.622" (cont.)

PART	PART NO.	NOTES
Stem Seal	Both 122-1225	Positive Type, Tef/Rub Material, 1-Ring Style, OEM # 10A27215
Guide	Both 140-1914 140-7371	0.4370 I.D., 3.125 Length, 0.7515 O.D., OEM # 10A6912 0.4365 I.D., 3.000 Length, 0.7510 O.D., Machined For Seal, OEM # 10A26421

MITSUBISHI / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
1468cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin K, G15B (1985-88)	Mirage	1
1468cc, (1.5L), SOHC, GAS, FI, 8 Valve, Vin X, 4G15 (1989-90)	Mirage	2
1468cc, (1.5L), SOHC, GAS, FI, 8 Valve, Vin J, G4DJ (1990-94)	Precis	3
1468cc, (1.5L), SOHC, GAS, FI, 12 Valve, Vin A, 4G15 (1991-02)	Mirage	4
1597cc, (1.6L), SOHC, GAS, FI, 8 Valve, Vin F, G32B, "TURBO" (1985-88)	Mirage Turbo	5
1597cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin Z, 4G61, "TURBO" (1989-89)	Mirage Turbo	6
1597cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin Y, 4G61 (1991-92)	Mirage	7
1755cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin B, T, 4G37 (1990-94)	Eclipse	8
1795cc, (1.8L), SOHC, GAS, CARB, 8 Valve, Vin 4, G62B (1983-83)	Cordia, Tredia	9
1795cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin G, G62B, "TURBO" (1984-88)	Cordia, Tredia	10
1834cc, (1.8L), SOHC, GAS, FI, 16 Valve, Vin C, D, 4G93 (1992-02)	Expo LRV, Mirage	11
1996cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin Y, 420A, "Chrysler" (1995-99)	Eclipse	12
1997cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin 5, D, G63B (1983-89)	Cordia, Mighty Max, Tredia	13
1997cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin V, 4G63 (1989-92)	Galant	14
1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin E, R, 4G63 (1989-94)	Eclipse, Galant	15
1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F, U, 4G63, "TURBO" (1990-99)	Eclipse, Galant	16
1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin C, D, 4G63, "TURBO" (2003-06)	Lancer	17
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin U, 4B11, "MIVEC" (2008-21)	Lancer, Outlander Sport, RVR	18
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin V, 4B11, "MIVEC TURBO" (2008-15)	Lancer	19
1998cc, (2.0L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin 5, 4B11, "MIVEC Hybrid" (2018-20)	Outlander PHEV	20
1999cc, (2.0L), SOHC, GAS, FI, 16 Valve, Vin E, 4G94 (2002-07)	Lancer	21

MITSUBISHI / PASSENGER CAR OR TRUCK (Cont'd)

Engine	Models	Line No.
4 Cylinder		
2346cc, (2.3L), SOHC, DIESEL, FI, 8 Valve, Vin 9, J, 4D55, ""TURBO"" (1983-85)	Mighty Max	22
2351cc, (2.4L), SOHC, GAS, FI, 12 Valve, Vin L, G64B (1985-88)	Galant, Van	23
2351cc, (2.4L), SOHC, GAS, FI, 8 Valve, Vin G, W, 4G64 (1989-94)	Expo, Expo LRV, Galant, Mighty Max, Van	24
2351cc, (2.4L), SOHC, GAS, FI, 16 Valve, Vin G, 4G64 (1993-05)	Eclipse, Expo, Expo LRV, Galant, Lancer, Montero Sport, Outlander	25
2351cc, (2.4L), DOHC, GAS, FI, 16 Valve, 4G64 (1994-95)	Galant	26
2360cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin 3, W, 4B12, ""MIVEC"" (2008-21)	Lancer, Outlander, Outlander Sport, RVR	27
2378cc, (2.4L), SOHC, GAS, FI, 16 Valve, Vin F, 4G69 (2005-12)	Eclipse, Galant, Lancer, Outlander	28
2555cc, (2.6L), SOHC, GAS, CARB, 8 Valve, Vin 7, E, G54B (1983-89)	Mighty Max, Montero	29
2555cc, (2.6L), SOHC, GAS, FI, 8 Valve, Vin H, N, G54B, ""TURBO"" (1986-89)	Starion	30
6 Cylinder		
2972cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin H, S, 6G72 (1988-99)	3000GT, Diamante, Galant, Mighty Max, Montero, Montero Sport, Sigma	31
2972cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin B, J, 6G72 (1991-99)	3000GT, Diamante	32
2972cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin C, K, 6G72, ""TURBO"" (1991-99)	3000GT	33
2972cc, (3.0L), SOHC, GAS, FI, 24 Valve, Vin H, L, P, 6G72 (1995-05)	Eclipse, Galant, Montero, Montero Sport	34
2998cc, (3.0L), SOHC, GAS, FI, 24 Valve, Vin X, 6B31, ""MIVEC"" (2007-20)	Outlander	35
3497cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin M, 6G74 (1994-96)	Montero	36
3497cc, (3.5L), SOHC, GAS, FI, 24 Valve, Vin P, R, 6G74 (1997-04)	Diamante, Montero, Montero Sport	37
226 C.I., (3.7L), SOHC, GAS, FI, 12 Valve, Vin K, ""Chrysler"" (2006-09)	Raider	38
3828cc, (3.8L), SOHC, GAS, FI, 24 Valve, Vin S, T, 6G75 (2003-12)	Eclipse, Endeavor, Galant, Montero	39
8 Cylinder		
287 C.I., (4.7L), SOHC, GAS, FI, 16 Valve, Vin N, ""Chrysler"" (2006-07)	Raider	40

1 1468cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin K, G15B G15B
1985-88 L4 90 CID BORE - 75.5mm/2.97""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1985-88	SB1437-51	1 ⁷ / ₁₆ O.D., 1.130T I.D., 0.2500 Depth
	Exh	1985-88	SB1312-53	1 ⁵ / ₁₆ O.D., 0.980T I.D., 0.2930 Depth
Keeper	Both	1985-88	121-1031	1 RD Bead Type
Stem Seal	Both	1985-88	122-1114	Positive Type, Viton Material, Metal Clad Style
Guide	Exh	1985-88	140-7589	0.2600 I.D., 1.950 Length, 0.4755 O.D.

(Cont'd) MITSUBISHI / PASSENGER CAR OR TRUCK

1468cc, (1.5L), SOHC, GAS, FI, 8 Valve, Vin X, 4G15 **4G15-8V 2**
 1989-90 L4 90 CID BORE - 75.5mm/2.97"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1989-90	SB1437-63	1 $\frac{7}{16}$ O.D.,1.181T I.D.,0.2800 Depth
	Exh	1989-90	SB1312-53	1 $\frac{5}{16}$ O.D.,0.980T I.D.,0.2930 Depth
Keeper	Both	1989-90	121-1031	1 RD Bead Type
Stem Seal	Both	1989-90	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Exh	1989-90	140-7589	0.2600 I.D.,1.950 Length,0.4755 O.D.

1468cc, (1.5L), SOHC, GAS, FI, 8 Valve, Vin J, G4DJ **G4DJ 3**
 1990-94 L4 90 CID BORE - 75.5mm/2.97"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1990-94	SB1437-63	1 $\frac{7}{16}$ O.D.,1.181T I.D.,0.2800 Depth
	Exh	1990-94	SB1312-53	1 $\frac{5}{16}$ O.D.,0.980T I.D.,0.2930 Depth
Keeper	Both	1990-94	121-1031	1 RD Bead Type
Stem Seal	Both	1990-94	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Exh	1990-94	140-7589	0.2600 I.D.,1.950 Length,0.4755 O.D.

1468cc, (1.5L), SOHC, GAS, FI, 12 Valve, Vin A, 4G15 **4G15-12V 4**
 1991-02 L4 90 CID BORE - 75.5mm/2.97"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1991-02	SB1125-52	1 $\frac{1}{8}$ O.D.,0.825T I.D.,0.2850 Depth,Use W/ Valve # 10495
		1991-02	SB1312-62	1 $\frac{5}{16}$ O.D.,1.065T I.D.,0.2850 Depth,Use W/ Valve # 10496
	Exh	1991-02	SB1437-61	1 $\frac{7}{16}$ O.D.,1.162 I.D.,0.3100 Depth
Valve	Int	1991-02	10495	1.023 Head Diameter
		1991-02	10496	1.220 Head Diameter
	Exh	1991-02	10497	1.299 Head Diameter
Keeper	Both	1991-02	121-1031	1 RD Bead Type
Stem Seal	Both	1991-02	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Exh	1991-02	140-7589	0.2600 I.D.,1.950 Length,0.4755 O.D.

1597cc, (1.6L), SOHC, GAS, FI, 8 Valve, Vin F, G32B, ""TURBO"" **G32BT 5**
 1985-88 L4 98 CID BORE - 76.9mm/3.03"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1985-88	SB1562-50	1 $\frac{9}{16}$ O.D.,1.260T I.D.,0.2800 Depth
	Exh	1985-88	SB1375-51	1 $\frac{3}{8}$ O.D.,1.060T I.D.,0.2800 Depth
Valve	Int	1985-88	10127	1.496 Head Diameter,Round Groove
	Exh	1985-88	10129	1.220 Head Diameter,Round Groove
Keeper	Both	1985-88	121-1039	1 RD Bead Type
Stem Seal	Both	1985-88	122-1086	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1985-88	140-7576	0.3150 I.D.,1.735 Length,0.5145 O.D.
	Exh	1985-88	140-7577	0.3150 I.D.,1.890 Length,0.5143 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both	1985-88	160-1030	1.822 Length

1597cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin Z, 4G61, ""TURBO"" **4G61-T 6**
 1989-89 L4 98 CID BORE - 76.9mm/3.03"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1989-89	SB1437-68	1 $\frac{7}{16}$ O.D.,1.135T I.D.,0.3160 Depth
	Exh	1989-89	SB1312-64	1 $\frac{5}{16}$ O.D.,1.045 I.D.,0.3160 Depth
Valve	Int	1989-89	10126A	1.339 Head Diameter,Nitride
		1989-89	10126R	1.378 Head Diameter,Performance Version W/ 1.0mm Larger Head Diameter

MITSUBISHI / PASSENGER CAR OR TRUCK (Cont'd)

6 1597cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin Z, 4G61, ""TURBO"" 4G61-T
 (cont.) 1989-89 L4 98 CID BORE - 76.9mm/3.03""

PART	YEARS	PART NO.	NOTES	
Valve	Exh	1989-89	10128A	1.201 Head Diameter,Nitride
	1989-89	10128R	1.221 Head Diameter,Performance Version W/ 0.5mm Larger Head Diameter	
Keeper	Both	1989-89	121-1031	1 RD Bead Type
Stem Seal	Both	1989-89	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1989-89	140-8193	0.2600 I.D.,1.795 Length,0.4755 O.D.,+2 O/S Available
		1989-89	340-1013BR	0.2598 I.D.,1.795 Length,0.4760 O.D.,Optional Bronze Guide
	Exh	1989-89	140-8194	0.2600 I.D.,1.990 Length,0.4755 O.D.,+2 O/S Available
		1989-89	340-1014BR	0.2598 I.D.,1.990 Length,0.4755 O.D.,Optional Bronze Guide
Lifter	Both	1989-89	VL135	Hydraulic Lash Adjuster Type

7 1597cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin Y, 4G61 4G61
 1991-92 L4 98 CID BORE - 76.9mm/3.03""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1991-92	SB1437-68	1 ⁷ / ₁₆ O.D.,1.135T I.D.,0.3160 Depth
	Exh	1991-92	SB1312-64	1 ⁵ / ₁₆ O.D.,1.045 I.D.,0.3160 Depth
Valve	Int	1991-92	10126A	1.339 Head Diameter,Nitride
		1991-92	10126R	1.378 Head Diameter,Performance Version W/ 1.0mm Larger Head Diameter
	Exh	1991-92	10128A	1.201 Head Diameter,Nitride
		1991-92	10128R	1.221 Head Diameter,Performance Version W/ 0.5mm Larger Head Diameter
Keeper	Both	1991-92	121-1031	1 RD Bead Type
Stem Seal	Both	1991-92	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1991-92	140-8193	0.2600 I.D.,1.795 Length,0.4755 O.D.,+2 O/S Available
		1991-92	340-1013BR	0.2598 I.D.,1.795 Length,0.4760 O.D.,Optional Bronze Guide
	Exh	1991-92	140-8194	0.2600 I.D.,1.990 Length,0.4755 O.D.,+2 O/S Available
		1991-92	340-1014BR	0.2598 I.D.,1.990 Length,0.4755 O.D.,Optional Bronze Guide
Lifter	Both	1991-92	VL135	Hydraulic Lash Adjuster Type

8 1755cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin B, T, 4G37 4G37
 1990-94 L4 107 CID BORE - 80.6mm/3.17""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1990-94	SB1500-75	1 ¹ / ₂ O.D.,1.180 I.D.,0.3000 Depth
Keeper	Both	1990-94	121-1039	1 RD Bead Type
Stem Seal	Both	1990-94	122-1086	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1990-94	140-7576	0.3150 I.D.,1.735 Length,0.5145 O.D.
	Exh	1990-94	140-7577	0.3150 I.D.,1.890 Length,0.5143 O.D.,W/ Snap Ring,+2 O/S Available
Lifter	Both	1990-94	VL141	Hydraulic Lash Adjuster Type
Head Saver Shim		1990-94	230-2085	New Hgt.- 3.484; Min. Hgt. 3.476

9 1795cc, (1.8L), SOHC, GAS, CARB, 8 Valve, Vin 4, G62B G62B
 1983-83 L4 109 CID BORE - 81mm/3.17""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1983-83	SB1750-61	1 ³ / ₄ O.D.,1.445T I.D.,0.3100 Depth
	Exh	1983-83	SB1500-62	1 ¹ / ₂ O.D.,1.220T I.D.,0.3100 Depth
Valve	Int	1983-83	10141	1.693 Head Diameter
	Exh	1983-83	10142	1.378 Head Diameter
Keeper	Both	1983-83	121-1039	1 RD Bead Type

(Cont'd) MITSUBISHI / PASSENGER CAR OR TRUCK**1795cc, (1.8L), SOHC, GAS, CARB, 8 Valve, Vin 4, G62B**
1983-83 L4 109 CID**G62B 9**
BORE - 81mm/3.17"" (cont.)

PART		YEARS	PART NO.	NOTES
Stem Seal	Both	1983-83	122-1086	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1983-83	140-7574	0.3150 I.D.,1.848 Length,0.5143 O.D.,+2 O/S Available 0.3150 I.D.,2.046 Length,0.5145 O.D.,W/ Snap Ring,+2 & +6 O/S Available
	Exh	1983-83	140-7575	
Spring	Both	1983-83	160-1031	1.875 Length

1795cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin G, G62B, ""TURBO""
1984-88 L4 109 CID**G62BT 10**
BORE - 81mm/3.17""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1984-88	SB1750-61	1¼ O.D.,1.445T I.D.,0.3100 Depth 1½ O.D.,1.220T I.D.,0.3100 Depth
	Exh	1984-88	SB1500-62	
Valve	Int	1984-88	10141	1.693 Head Diameter 1.378 Head Diameter
	Exh	1984-88	10142	
Keeper	Both	1984-88	121-1039	1 RD Bead Type
Stem Seal	Both	1984-88	122-1086	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1984-88	140-7574	0.3150 I.D.,1.848 Length,0.5143 O.D.,+2 O/S Available 0.3150 I.D.,2.046 Length,0.5145 O.D.,W/ Snap Ring,+2 & +6 O/S Available
	Exh	1984-88	140-7575	
Spring	Both	1984-85	160-1031	1.875 Length
		1985-88	160-1079	1.960 Length

1834cc, (1.8L), SOHC, GAS, FI, 16 Valve, Vin C, D, 4G93
1992-02 L4 112 CID**4G93 11**
BORE - 81mm/3.19""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1993-02	SB1250-60	1¼ O.D.,1.023T I.D.,0.2730 Depth 1¾ O.D.,0.905 I.D.,0.2570 Depth 1¾ O.D.,0.880 I.D.,0.2800 Depth
		1992-92	SB1187-51	
		1993-02	SB1187-54	
Valve	Int Exh	1992-02	10498	1.181 Head Diameter 1.063 Head Diameter
		1992-02	10499	
Keeper	Both	1992-02	121-1096	1 RD Bead Type
Stem Seal	Both	1992-02	122-1252	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1992-02	140-8554	0.2355 I.D.,1.790 Length,0.4360 O.D. 0.2360 I.D.,1.990 Length,0.4360 O.D.
	Exh	1992-02	140-8571	
Lifter	Both	1992-02	VL141	Hydraulic Lash Adjuster Type
Head Bolt Set		1992-02	220-1046	Torque To Yield,Services Engine
Head Saver Shim		1992-96	230-2081	New Hgt.- 4.209 - 4.217

1996cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin Y, 420A, ""Chrysler""
1995-99 L4 122 CID**420A 12**
BORE - 87.5mm/3.45""

PART		YEARS	PART NO.	NOTES
Valve	Int	1995-99	01730	1.370 Head Diameter,1 Groove 1.201 Head Diameter,1 Groove
	Exh	1995-99	01731	
Keeper	Both	1995-99	121-1086	1 RD Bead Type
Stem Seal	Both	1995-99	122-1251	Positive Type,Viton Material,Top Hat Style
Guide	Both	1995-99	140-8556	0.2355 I.D.,1.735 Length,0.4360 O.D.,+2 O/S Available
Spring	Both	1995-99	160-1347	1.840 Length
Lifter	Both	1995-99	VL173	Hydraulic Lash Adjuster Type
Rocker Components	Both	1995-99	180-1324	Roller Cam Follower

MITSUBISHI / PASSENGER CAR OR TRUCK (Cont'd)

12 1996cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin Y, 420A, ""Chrysler"" 420A
 (cont.) 1995-99 L4 122 CID BORE - 87.5mm/3.45""

PART	YEARS	PART NO.	NOTES
Head Bolt Set	1995-99	220-1072	Torque To Yield,Services Engine
Head Saver Shim	1995-99	230-2083	New Hgt.- 5.4115 - 5.4193; Min. Hgt. 5.4035

13 1997cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin 5, D, G63B G63B
 1983-89 L4 122 CID BORE - 85mm/3.35""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1983-89 1983-89	SB1750-61 SB1500-62	1¼ O.D.,1.445T I.D.,0.3100 Depth 1½ O.D.,1.220T I.D.,0.3100 Depth
Valve	Int Exh	1983-89 1983-89	10141 10142	1.693 Head Diameter 1.378 Head Diameter
Keeper	Both	1983-89	121-1039	1 RD Bead Type
Stem Seal	Both	1983-89	122-1086	Positive Type,Viton Material,Metal Clad Style
Guide	Int Exh	1983-89 1983-89	140-7574 140-7575	0.3150 I.D.,1.848 Length,0.5143 O.D.,+2 O/S Available 0.3150 I.D.,2.046 Length,0.5145 O.D.,W/ Snap Ring,+2 & +6 O/S Available
Spring	Both	1983-84 1984-89	160-1031 160-1079	1.875 Length 1.960 Length
Lifter	Both	1983-89	VL141	Hydraulic Lash Adjuster Type
Head Saver Shim		1983-89	230-2001	New Hgt.- 3.5430; Min. Hgt.- 3.5230

14 1997cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin V, 4G63 4G63-SC
 1989-92 L4 122 CID BORE - 85mm/3.35""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1989-92 1989-92	SB1750-61 SB1500-62	1¼ O.D.,1.445T I.D.,0.3100 Depth 1½ O.D.,1.220T I.D.,0.3100 Depth
Valve	Int Exh	1989-92 1989-92	10141 10142	1.693 Head Diameter 1.378 Head Diameter
Keeper	Both	1989-92	121-1039	1 RD Bead Type
Stem Seal	Both	1989-92	122-1086	Positive Type,Viton Material,Metal Clad Style
Guide	Int Exh	1989-92 1989-92	140-7574 140-7575	0.3150 I.D.,1.848 Length,0.5143 O.D.,+2 O/S Available 0.3150 I.D.,2.046 Length,0.5145 O.D.,W/ Snap Ring,+2 & +6 O/S Available
Spring	Both	1989-92	160-1079	1.960 Length
Lifter	Both	1989-92	VL141	Hydraulic Lash Adjuster Type
Head Saver Shim		1989-92	230-2001	New Hgt.- 3.5430; Min. Hgt.- 3.5230

15 1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin E, R, 4G63 G63-DC
 1989-94 L4 122 CID BORE - 85mm/3.35""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1989-94 1989-94	SB1437-68 SB1312-64	1⅞ O.D.,1.135T I.D.,0.3160 Depth 1⅞ O.D.,1.045 I.D.,0.3160 Depth
Valve	Int Exh	1989-94 1989-94 1989-94 1989-94	10126A 10126R 10128A 10128R	1.339 Head Diameter,Nitride 1.378 Head Diameter,Performance Version W/ 1.0mm Larger Head Diameter 1.201 Head Diameter,Nitride 1.221 Head Diameter,Performance Version W/ 0.5mm Larger Head Diameter
Keeper	Both	1989-94	121-1031	1 RD Bead Type
Stem Seal	Both	1989-94	122-1114	Positive Type,Viton Material,Metal Clad Style

(Cont'd) MITSUBISHI / PASSENGER CAR OR TRUCK**1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin E, R, 4G63**
1989-94 L4 122 CID**G63-DC 15**
BORE - 85mm/3.35" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Int	1989-94	140-8193	0.2600 I.D.,1.795 Length,0.4755 O.D.,+2 O/S Available 0.2598 I.D.,1.795 Length,0.4760 O.D.,Optional Bronze Guide 0.2600 I.D.,1.990 Length,0.4755 O.D.,+2 O/S Available 0.2598 I.D.,1.990 Length,0.4755 O.D.,Optional Bronze Guide
		1989-94	340-1013BR	
	Exh	1989-94	140-8194	
		1989-94	340-1014BR	
Lifter	Both	1989-94	VL135	Hydraulic Lash Adjuster Type
Head Saver Shim		1989-94	230-2001	New Hgt.- 5.1968 - 5.2010; Min. Hgt.- 5.1880

1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F, U, 4G63, ""TURBO""
1990-99 L4 122 CID**4G63-DCT 16**
BORE - 85mm/3.35"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1990-99	SB1437-68	1 ⁷ / ₁₆ O.D.,1.135T I.D.,0.3160 Depth 1 ⁵ / ₁₆ O.D.,1.045 I.D.,0.3160 Depth
	Exh	1990-99	SB1312-64	
Valve	Int	1990-99	10126A	1.339 Head Diameter,Nitride 1.378 Head Diameter,Performance Version W/ 1.0mm Larger Head Diameter 1.201 Head Diameter,Nitride 1.221 Head Diameter,Performance Version W/ 0.5mm Larger Head Diameter
		1990-99	10126R	
	Exh	1990-99	10128A	
		1990-99	10128R	
Keeper	Both	1990-99	121-1031	1 RD Bead Type
Stem Seal	Both	1990-99	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1990-99	140-8193	0.2600 I.D.,1.795 Length,0.4755 O.D.,+2 O/S Available 0.2598 I.D.,1.795 Length,0.4760 O.D.,Optional Bronze Guide 0.2600 I.D.,1.990 Length,0.4755 O.D.,+2 O/S Available 0.2598 I.D.,1.990 Length,0.4755 O.D.,Optional Bronze Guide
		1990-99	340-1013BR	
	Exh	1990-99	140-8194	
		1990-99	340-1014BR	
Lifter	Both	1990-99	VL135	Hydraulic Lash Adjuster Type
Head Saver Shim		1990-99	230-2001	New Hgt.- 5.1970; Min. Hgt.- 5.1890

1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin C, D, 4G63, ""TURBO""
2003-06 L4 122 CID**2.0-EVO 17**
BORE - 85mm/3.35"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2003-06	10126A	1.339 Head Diameter,Nitride 1.378 Head Diameter,Performance Version W/ 1.0mm Larger Head Diameter 1.201 Head Diameter,Nitride 1.221 Head Diameter,Performance Version W/ 0.5mm Larger Head Diameter
		2003-06	10126R	
	Exh	2003-06	10128A	
		2003-06	10128R	
Keeper	Both	2003-06	121-1031	1 RD Bead Type
Stem Seal	Both	2003-06	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2003-06	140-8193	0.2600 I.D.,1.795 Length,0.4755 O.D. 0.2598 I.D.,1.795 Length,0.4760 O.D.,Optional Bronze Guide 0.2600 I.D.,1.990 Length,0.4755 O.D. 0.2598 I.D.,1.990 Length,0.4755 O.D.,Optional Bronze Guide
		2003-06	340-1013BR	
	Exh	2003-06	140-8194	
		2003-06	340-1014BR	
Lifter	Both	2003-06	VL135	Hydraulic Lash Adjuster Type

1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin U, 4B11, ""MIVEC""
2008-21 L4 122 CID**4B11 18**
BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2008-16	13255	1.378 Head Diameter 1.142 Head Diameter
	Exh	2008-16	13256	
Keeper	Both	2008-20	121-1060	1 RD Bead Type
Stem Seal	Both	2008-20	122-1440	Positive Type,Viton Material,Top Hat Style

MITSUBISHI / PASSENGER CAR OR TRUCK (Cont'd)

18 1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin U, 4B11, ""MIVEC"" 4B11
 (cont.) 2008-21 L4 122 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES
Guide	Both	2008-20 140-3154	0.2168 I.D., 1.740 Length, 0.4358 O.D.

19 1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin V, 4B11, ""MIVEC TURBO"" 4B11T
 2008-15 L4 122 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2008-15 13255 2008-15 13397	1.378 Head Diameter 1.142 Head Diameter
Keeper	Both	2008-15 121-1060	1 RD Bead Type
Stem Seal	Both	2008-15 122-1440	Positive Type, Viton Material, Top Hat Style
Guide	Both	2008-15 140-3154	0.2168 I.D., 1.740 Length, 0.4358 O.D.

20 1998cc, (2.0L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin 5, 4B11, ""MIVEC Hybrid"" 4B11-E
 2018-20 L4 122 CID BORE - 86mm/3.40""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2018-20 121-1060	1 RD Bead Type
Stem Seal	Both	2018-20 122-1440	Positive Type, Viton Material, Top Hat Style
Guide	Both	2018-20 140-3154	0.2168 I.D., 1.740 Length, 0.4358 O.D.

21 1999cc, (2.0L), SOHC, GAS, FI, 16 Valve, Vin E, 4G94 4G94
 2002-07 L4 122 CID BORE - 81.5mm/3.21""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	2002-07 SB1250-60 2002-07 SB1187-54	1¼ O.D., 1.023T I.D., 0.2730 Depth 1¾ O.D., 0.880 I.D., 0.2800 Depth
Valve	Int Exh	2002-07 10498 2002-07 10499	1.181 Head Diameter 1.063 Head Diameter
Keeper	Both	2002-07 121-1096	1 RD Bead Type
Stem Seal	Both	2002-07 122-1252	Positive Type, Viton Material, Metal Clad Style
Guide	Int Exh	2002-07 140-8554 2002-07 140-8571	0.2355 I.D., 1.790 Length, 0.4360 O.D. 0.2360 I.D., 1.990 Length, 0.4360 O.D.
Lifter	Both	2002-07 VL141	Hydraulic Lash Adjuster Type
Head Bolt Set		2002-07 220-1046	Torque To Yield, Services Engine

22 2346cc, (2.3L), SOHC, DIESEL, FI, 8 Valve, Vin 9, J, 4D55, ""TURBO"" 4D55
 1983-85 L4 143 CID BORE - 90.9mm/3.58""

PART	YEARS	PART NO.	NOTES
Keeper	Both	1983-83 121-1034 1984-85 121-1039	1 SQ Bead Type 1 RD Bead Type
Stem Seal	Both	1983-85 122-1086	Positive Type, Viton Material, Metal Clad Style

23 2351cc, (2.4L), SOHC, GAS, FI, 12 Valve, Vin L, G64B G64B
 1985-88 L4 143 CID BORE - 86.5mm/3.41""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1985-88 SB1875-51 1985-88 SB1625-56	1⅞ O.D., 1.575T I.D., 0.3170 Depth 1⅝ O.D., 1.298T I.D., 0.3170 Depth, +10, +30 O/S Available
Valve	Int Exh	1985-88 10143 1985-88 10144	1.811 Head Diameter 1.496 Head Diameter
Keeper	Both	1985-88 121-1039	1 RD Bead Type
Stem Seal	Both	1985-88 122-1086	Positive Type, Viton Material, Metal Clad Style

(Cont'd) MITSUBISHI / PASSENGER CAR OR TRUCK**2351cc, (2.4L), SOHC, GAS, FI, 12 Valve, Vin L, G64B**
1985-88 L4 143 CID**G64B 23**
BORE - 86.5mm/3.41"" (cont.)

PART		YEARS	PART NO.	NOTES
Guide	Int	1985-88	140-7574	0.3150 I.D.,1.848 Length,0.5143 O.D.,+2 O/S Available
	Exh	1985-88	140-7575	0.3150 I.D.,2.046 Length,0.5145 O.D.,W/ Snap Ring,+2 & +6 O/S Available
Spring	Both	1985-88	160-1079	1.960 Length
Lifter	Both	1985-88	VL141	Hydraulic Lash Adjuster Type
Head Saver Shim		1985-88	230-2004	New Hgt.- 3.5430 - 3.5440; Min. Hgt.- 3.5230

2351cc, (2.4L), SOHC, GAS, FI, 8 Valve, Vin G, W, 4G64
1989-94 L4 143 CID**4G64-SC8V 24**
BORE - 86.5mm/3.41""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1989-94	SB1875-51	1 $\frac{7}{8}$ O.D.,1.575T I.D.,0.3170 Depth
	Exh	1989-94	SB1625-56	1 $\frac{5}{8}$ O.D.,1.298T I.D.,0.3170 Depth,+10, +30 O/S Available
Valve	Int	1989-94	10143	1.811 Head Diameter
	Exh	1989-94	10144	1.496 Head Diameter
Stem Seal	Both	1989-94	122-1086	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1989-94	140-7574	0.3150 I.D.,1.848 Length,0.5143 O.D.,+2 O/S Available
	Exh	1989-94	140-7575	0.3150 I.D.,2.046 Length,0.5145 O.D.,W/ Snap Ring,+2 & +6 O/S Available
Spring	Both	1989-94	160-1079	1.960 Length
Lifter	Both	1989-94	VL141	Hydraulic Lash Adjuster Type
Head Saver Shim		1989-94	230-2004	New Hgt.- 3.5430 - 3.5440; Min. Hgt.- 3.5230

2351cc, (2.4L), SOHC, GAS, FI, 16 Valve, Vin G, 4G64
1993-05 L4 143 CID**4G64-SC16V 25**
BORE - 86.5mm/3.41"" , 87mm/3.42""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1993-05	SB1375-62	1 $\frac{1}{8}$ O.D.,1.100T I.D.,0.3000 Depth
	Exh	1993-05	SB1250-59	1 $\frac{1}{4}$ O.D.,0.982 I.D.,0.3290 Depth
Valve	Int	1993-05	10534A	1.299 Head Diameter,Nitride
	Exh	1993-05	10535A	1.142 Head Diameter,Nitride
Keeper	Both	1993-05	121-1096	1 RD Bead Type
Stem Seal	Both	1993-05	122-1252	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1993-05	140-8554	0.2355 I.D.,1.790 Length,0.4360 O.D.,+2 O/S Available
	Exh	1993-05	140-8571	0.2360 I.D.,1.990 Length,0.4360 O.D.
Lifter	Both	1993-05	VL141	Hydraulic Lash Adjuster Type
Head Saver Shim		1993-98	230-2080	New Hgt. 4.720 - 4.730; Min. Hgt.- 4.712; NOTE: Except 1997-98 Montero
		1999-05	230-2149	New Hgt. 4.720-4.730; Min. Hgt. 4.712

2351cc, (2.4L), DOHC, GAS, FI, 16 Valve, 4G64
1994-95 L4 143 CID**4G64-DC 26**
BORE - 86.5mm/3.41""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1994-95	SB1437-68	1 $\frac{7}{16}$ O.D.,1.135T I.D.,0.3160 Depth
	Exh	1994-95	SB1312-64	1 $\frac{5}{16}$ O.D.,1.045 I.D.,0.3160 Depth
Valve	Int	1994-95	10126A	1.339 Head Diameter,Nitride
		1994-95	10126R	1.378 Head Diameter,Performance Version W/ 1.0mm Larger Head Diameter
	Exh	1994-95	10128A	1.201 Head Diameter,Nitride
		1994-95	10128R	1.221 Head Diameter,Performance Version W/ 0.5mm Larger Head Diameter
Keeper	Both	1994-95	121-1031	1 RD Bead Type

MITSUBISHI / PASSENGER CAR OR TRUCK (Cont'd)

26 2351cc, (2.4L), DOHC, GAS, FI, 16 Valve, 4G64 4G64-DC
 (cont.) 1994-95 L4 143 CID BORE - 86.5mm/3.41"

PART	YEARS	PART NO.	NOTES
Stem Seal	Both	1994-95 122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1994-95 140-8193	0.2600 I.D.,1.795 Length,0.4755 O.D.
		1994-95 340-1013BR	0.2598 I.D.,1.795 Length,0.4760 O.D.,Optional Bronze Guide
	Exh	1994-95 140-8194	0.2600 I.D.,1.990 Length,0.4755 O.D.
		1994-95 340-1014BR	0.2598 I.D.,1.990 Length,0.4755 O.D.,Optional Bronze Guide
Lifter	Both	1994-95 VL135	Hydraulic Lash Adjuster Type

27 2360cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin 3, W, 4B12, ""MIVEC"" 4B12
 2008-21 L4 144 CID BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES
Valve	Int	2008-16 13255	1.378 Head Diameter
	Exh	2008-16 13256	1.142 Head Diameter
Keeper	Both	2008-20 121-1060	1 RD Bead Type
Stem Seal	Both	2008-20 122-1440	Positive Type,Viton Material,Top Hat Style
Guide	Both	2008-20 140-3154	0.2168 I.D.,1.740 Length,0.4358 O.D.

28 2378cc, (2.4L), SOHC, GAS, FI, 16 Valve, Vin F, 4G69 4G69
 2005-12 L4 145 CID BORE - 87mm/3.42"

PART	YEARS	PART NO.	NOTES
Valve	Int	2005-12 13199	1.338 Head Diameter
	Exh	2005-12 13200	1.200 Head Diameter
Keeper	Both	2005-12 121-1096	1 RD Bead Type
Stem Seal	Both	2005-12 122-1252	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2005-12 140-8554	0.2355 I.D.,1.790 Length,0.4360 O.D.
	Exh	2005-12 140-8571	0.2360 I.D.,1.990 Length,0.4360 O.D.
Head Saver Shim		2005-09 230-2158	New Hgt.- 4.7244; Min. Hgt.- 4.7165

29 2555cc, (2.6L), SOHC, GAS, CARB, 8 Valve, Vin 7, E, G54B G54B
 1983-89 L4 156 CID BORE - 91.1mm/3.59"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1983-89 SB1875-51	1 $\frac{7}{8}$ O.D.,1.575T I.D.,0.3170 Depth
	Exh	1983-89 SB1625-56	1 $\frac{5}{8}$ O.D.,1.298T I.D.,0.3170 Depth,+10, +30 O/S Available
Valve	Int	1985-89 10145	1.810 Head Diameter,Round Groove
		1985-89 10146	1.493 Head Diameter,Round Groove,Optional Non-Stellite
	Exh	1985-89 10146S	1.493 Head Diameter,Stellite Face, Round Groove
Keeper	Both	1983-84 121-1034	1 SQ Bead Type
		1985-89 121-1039	1 RD Bead Type
Stem Seal	Both	1983-89 122-1086	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1983-89 140-7574	0.3150 I.D.,1.848 Length,0.5143 O.D.,+2 O/S Available
	Exh	1983-89 140-7575	0.3150 I.D.,2.046 Length,0.5145 O.D.,W/ Snap Ring,+2 & +6 O/S Available
Spring	Both	05/84-89 160-1079	1.960 Length
		1983-04/84 160-1031	1.875 Length
Lifter	Both	1983-89 VL141	Hydraulic Lash Adjuster Type
Head Saver Shim		1983-89 230-2005	New Hgt.- 3.5430; Min. Hgt.- 3.5230

30 2555cc, (2.6L), SOHC, GAS, FI, 8 Valve, Vin H, N, G54B, ""TURBO"" G54B-T
 1986-89 L4 156 CID BORE - 91.1mm/3.59"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1986-89 SB1875-51	1 $\frac{7}{8}$ O.D.,1.575T I.D.,0.3170 Depth

(Cont'd) MITSUBISHI / PASSENGER CAR OR TRUCK**2555cc, (2.6L), SOHC, GAS, FI, 8 Valve, Vin H, N, G54B, ""TURBO""**
1986-89 L4 156 CID**G54B-T 30**
BORE - 91.1mm/3.59"" (cont.)

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1986-89	SB1625-56	1 $\frac{5}{8}$ O.D., 1.298T I.D., 0.3170 Depth, +10, +30 O/S Available
Valve	Int	1986-89	10145	1.810 Head Diameter, Round Groove
	Exh	1986-89	10146S	1.493 Head Diameter, Stellite Face, Round Groove, Except Intercooled Turbo
Keeper	Both	1986-89	121-1039	1 RD Bead Type
Stem Seal	Both	1986-89	122-1086	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1986-89	140-7574	0.3150 I.D., 1.848 Length, 0.5143 O.D., +2 O/S Available
	Exh	1986-89	140-7575	0.3150 I.D., 2.046 Length, 0.5145 O.D., W/ Snap Ring, +2 & +6 O/S Available
Spring	Both	1986-89	160-1079	1.960 Length
Lifter	Both	1986-89	VL141	Hydraulic Lash Adjuster Type
Head Saver Shim		1986-89	230-2005	New Hgt. - 3.5430; Min. Hgt. - 3.5230

2972cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin H, S, 6G72
1988-99 V6 181 CID**6G72-SC12V 31**
BORE - 89mm/3.59"", 91.1mm/3.50""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1988-99	SB1750-61	1 $\frac{3}{4}$ O.D., 1.445T I.D., 0.3100 Depth
	Exh	1988-99	SB1562-69	1 $\frac{5}{16}$ O.D., 1.219 I.D., 0.3170 Depth, Also Available In Non-Magnetic (N) Material
		1988-99	SB1562-69N	1 $\frac{5}{16}$ O.D., 1.219 I.D., 0.3170 Depth, Optional LPG
Valve	Int	1988-99	10147	1.693 Head Diameter, 0.030 Shorter Than OEM
		1988-99	10624	1.693 Head Diameter, OEM Length
	Exh	1988-99	10148	1.378 Head Diameter, 0.030 Shorter Than OEM
		1988-99	10625	1.378 Head Diameter, OEM Length
Keeper	Both	1988-99	121-1039	1 RD Bead Type
Stem Seal	Both	1988-99	122-1086	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1988-99	140-7576	0.3150 I.D., 1.735 Length, 0.5145 O.D.
	Exh	1988-99	140-7577	0.3150 I.D., 1.890 Length, 0.5143 O.D., W/ Snap Ring, +2 O/S Available
Spring	Both	1988-99	160-1079	1.960 Length
Lifter	Both	1988-99	VL141	Hydraulic Lash Adjuster Type
Rocker Components	Both	1988-99	180-1207	Roller Rocker Arm
Head Bolt Set		1988-99	220-1021	Torque To Yield, Services Engine
Head Saver Shim		1988-94	230-2006	New Hgt. - 3.3030 - 3.3110; Min. Hgt. - 3.2950, 2 Required

2972cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin B, J, 6G72
1991-99 V6 181 CID**6G72-DC 32**
BORE - 91.1mm/3.59""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1991-99	SB1437-59	1 $\frac{7}{16}$ O.D., 1.180T I.D., 0.3050 Depth
	Exh	1991-99	SB1312-64	1 $\frac{5}{16}$ O.D., 1.045 I.D., 0.3160 Depth
Valve	Int	1991-99	10500	1.375 Head Diameter
	Exh	1991-99	10501	1.200 Head Diameter
Keeper	Both	1991-99	121-1031	1 RD Bead Type
Stem Seal	Both	1991-99	122-1114	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1991-99	140-8193	0.2600 I.D., 1.795 Length, 0.4755 O.D., +2 O/S Available
		1991-99	340-1013BR	0.2598 I.D., 1.795 Length, 0.4760 O.D., Optional Bronze Guide
	Exh	1991-99	140-8194	0.2600 I.D., 1.990 Length, 0.4755 O.D., +2 O/S Available
		1991-99	340-1014BR	0.2598 I.D., 1.990 Length, 0.4755 O.D., Optional Bronze Guide

MITSUBISHI / PASSENGER CAR OR TRUCK (Cont'd)

32 2972cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin B, J, 6G72 6G72-DC
 (cont.) 1991-99 V6 181 CID BORE - 91.1mm/3.59"

PART	YEARS	PART NO.	NOTES
Lifter	Both	1991-99 VL135	Hydraulic Lash Adjuster Type
Head Bolt Set		1991-99 220-1021	Torque To Yield,Services Engine
Head Saver Shim		1991-99 230-2007	New Hgt.- 5.2000 - 5.2100; Min. Hgt.- 5.1888, 2 Required

33 2972cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin C, K, 6G72, ""TURBO"" 6G72DC-T
 1991-99 V6 181 CID BORE - 91.1mm/3.59"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1991-99 1991-99 SB1437-59 SB1312-64	1 ⁷ / ₁₆ O.D., 1.180T I.D., 0.3050 Depth 1 ⁵ / ₁₆ O.D., 1.045 I.D., 0.3160 Depth
Valve	Int Exh	1991-99 1991-99 10500 10501	1.375 Head Diameter 1.200 Head Diameter
Keeper	Both	1991-99 121-1031	1 RD Bead Type
Stem Seal	Both	1991-99 122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int Exh	1991-99 1991-99 1991-99 1991-99 140-8193 340-1013BR 140-8194 340-1014BR	0.2600 I.D., 1.795 Length, 0.4755 O.D., +2 O/S Available 0.2598 I.D., 1.795 Length, 0.4760 O.D., Optional Bronze Guide 0.2600 I.D., 1.990 Length, 0.4755 O.D., +2 O/S Available 0.2598 I.D., 1.990 Length, 0.4755 O.D., Optional Bronze Guide
Lifter	Both	1991-99 VL135	Hydraulic Lash Adjuster Type
Head Bolt Set		1991-99 220-1021	Torque To Yield,Services Engine
Head Saver Shim		1991-99 230-2007	New Hgt.- 5.1968

34 2972cc, (3.0L), SOHC, GAS, FI, 24 Valve, Vin H, L, P, 6G72 6G72-SC24V
 1995-05 V6 181 CID BORE - 91.1mm/3.59"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1995-05 1995-05 SB1375-62 SB1250-59	1 ³ / ₈ O.D., 1.100T I.D., 0.3000 Depth 1 ¹ / ₄ O.D., 0.982 I.D., 0.3290 Depth
Valve	Int Exh	1995-05 1995-05 10534A 10535A	1.299 Head Diameter,Nitride 1.142 Head Diameter,Nitride
Keeper	Both	1995-05 121-1096	1 RD Bead Type
Stem Seal	Int Exh	1995-05 1995-05 122-1252 122-1253	Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style
Guide	Int Exh	1995-05 1995-05 140-8554 140-8569	0.2355 I.D., 1.790 Length, 0.4360 O.D. 0.2360 I.D., 1.990 Length, 0.4360 O.D., W/ Snap Ring
Lifter	Both	1995-05 VL141	Hydraulic Lash Adjuster Type

35 2998cc, (3.0L), SOHC, GAS, FI, 24 Valve, Vin X, 6B31, ""MIVEC"" 6B31
 2007-20 V6 182 CID BORE - 87.6mm/3.45"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2007-20 121-1096	1 RD Bead Type
Stem Seal	Int Exh	2007-20 2007-20 122-1252 122-1253	Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style
Guide	Int Exh	2007-20 2007-20 140-8554 140-8571	0.2355 I.D., 1.790 Length, 0.4360 O.D. 0.2360 I.D., 1.990 Length, 0.4360 O.D.
Lifter	Both	2007-20 VL141	Hydraulic Lash Adjuster Type

36 3497cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin M, 6G74 6G74-DC
 1994-96 V6 213 CID BORE - 93mm/3.66"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1994-96 SB1437-59	1 ⁷ / ₁₆ O.D., 1.180T I.D., 0.3050 Depth

(Cont'd) MITSUBISHI / PASSENGER CAR OR TRUCK**3497cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin M, 6G74**
1994-96 V6 213 CID**6G74-DC 36**
BORE - 93mm/3.66" (cont.)

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1994-96	SB1312-64	1 ⁵ / ₁₆ O.D.,1.045 I.D.,0.3160 Depth
Valve	Int	1994-96	10500	1.375 Head Diameter,0.258 (6.5mm) Stem Dia.
	Exh	1994-96	10501	1.200 Head Diameter,0.258 (6.5mm) Stem Dia.
Keeper	Both	1994-96	121-1031	1 RD Bead Type
Stem Seal	Both	1994-96	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1994-96	140-8193	0.2600 I.D.,1.795 Length,0.4755 O.D.,For .258 Stem Dia., +2 O/S Also Available
		1994-96	340-1013BR	0.2598 I.D.,1.795 Length,0.4760 O.D.,Optional Bronze Guide
	Exh	1994-96	140-8194	0.2600 I.D.,1.990 Length,0.4755 O.D.,For .258 Stem Dia., +2 O/S Also Available
		1994-96	340-1014BR	0.2598 I.D.,1.990 Length,0.4755 O.D.,Optional Bronze Guide
Lifter	Both	1994-96	VL135	Hydraulic Lash Adjuster Type
Head Bolt Set		1994-96	220-1021	Torque To Yield,Services Engine

3497cc, (3.5L), SOHC, GAS, FI, 24 Valve, Vin P, R, 6G74
1997-04 V6 215 CID**6G74-SC24V 37**
BORE - 93mm/3.66" "

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1997-04	SB1375-62	1 ³ / ₈ O.D.,1.100T I.D.,0.3000 Depth
	Exh	1997-04	SB1250-59	1 ¹ / ₄ O.D.,0.982 I.D.,0.3290 Depth
Valve	Int	1997-04	10534A	1.299 Head Diameter,Nitride
	Exh	1997-04	10535A	1.142 Head Diameter,Nitride
Keeper	Both	1997-04	121-1096	1 RD Bead Type
Stem Seal	Int	1997-04	122-1252	Positive Type,Viton Material,Metal Clad Style
	Exh	1997-04	122-1253	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1997-04	140-8554	0.2355 I.D.,1.790 Length,0.4360 O.D.
	Exh	1997-04	140-8571	0.2360 I.D.,1.990 Length,0.4360 O.D.
Lifter	Both	1997-04	VL141	Hydraulic Lash Adjuster Type

226 C.I., (3.7L), SOHC, GAS, FI, 12 Valve, Vin K, ""Chrysler""
2006-09 V6 226 CID**MIT3.7 38**
BORE - 93mm/3.66" "

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2006-09	SB2000-51	2.000 O.D.,1.690T I.D.,0.2700 Depth
		2006-09	SB2000-51PM	2.000 O.D.,1.690T I.D.,0.2700 Depth,OEM Equivalent PM Material
	Exh	2006-09	SB1500-50	1 ¹ / ₂ O.D.,1.203T I.D.,0.2800 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,Seat May Need To Be Machined In Order To Achieve Correct Depth
		2006-09	SB1500-50PM	1 ¹ / ₂ O.D.,1.203T I.D.,0.2800 Depth,OEM Equivalent PM Material; Seat May Need To Be Machined In Order To Achieve Correct Depth
		2006-09	SB1562-66	1 ⁹ / ₁₆ O.D.,1.265T I.D.,0.2800 Depth,NOTE: Alternate O.D., Check Casting Before Use
2006-09	SB1562-66PM	1 ⁹ / ₁₆ O.D.,1.265T I.D.,0.2800 Depth,OEM Equivalent PM Material; NOTE: Alternate O.D; Check Casting Before Use.		
Valve	Int	2006-09	01918	1.915 Head Diameter
	Exh	2006-09	02036	1.457 Head Diameter
Keeper	Both	2006-09	121-1093	3 RD Bead Type
Stem Seal	Both	2006-09	122-1344	Positive Type,Viton Material,Top Hat Style
Guide	Both	2006-09	140-3026	0.2752 I.D.,1.702 Length,0.4720 O.D.,+2 O/S Available

MITSUBISHI / PASSENGER CAR OR TRUCK (Cont'd)

38 226 C.I., (3.7L), SOHC, GAS, FI, 12 Valve, Vin K, ""Chrysler"" MIT3.7
 (cont.) 2006-09 V6 226 CID BORE - 93mm/3.66""

PART	YEARS	PART NO.	NOTES
Guide	Both	2006-09 140-3026H	0.2752 I.D., 1.702 Length, 0.4720 O.D., +2 O/S Available (140-3026H+2), NOTE: Optional Hardened Version; +2 O/S Available
Spring	Int	2006-09 160-1612	1.907 Length, Conical
	Exh	2006-09 160-1614	1.898 Length, Conical, W/ External Shroud
Lifter	Both	2006-09 VL562	Hydraulic Lash Adjuster Type
Head Bolt Set		2006-09 220-1097	Torque To Yield, Services Engine
Head Saver Shim		2006-09 230-2133	New Hgt. - 4.592; 2 Required

39 3828cc, (3.8L), SOHC, GAS, FI, 24 Valve, Vin S, T, 6G75 6G75
 2003-12 V6 230 CID BORE - 95mm/3.74""

PART	YEARS	PART NO.	NOTES
Valve	Int	2003-12 13347	1.437 Head Diameter, NOTE: W/ 4.344 Length
		2006-12 13349	1.437 Head Diameter, NOTE: W/ 4.303 Length
	Exh	2003-12 13348	1.260 Head Diameter, NOTE: W/ 4.414 Length
		2006-12 13350	1.260 Head Diameter, NOTE: W/ 4.468 Length
Keeper	Both	2003-12 121-1096	1 RD Bead Type
Stem Seal	Int	2003-12 122-1252	Positive Type, Viton Material, Metal Clad Style
	Exh	2003-12 122-1253	Positive Type, Viton Material, Metal Clad Style
Guide	Int	2003-12 140-8554	0.2355 I.D., 1.790 Length, 0.4360 O.D.
	Exh	2003-12 140-8571	0.2360 I.D., 1.990 Length, 0.4360 O.D.
Lifter	Both	2003-12 VL141	Hydraulic Lash Adjuster Type

40 287 C.I., (4.7L), SOHC, GAS, FI, 16 Valve, Vin N, ""Chrysler"" MIT4.7
 2006-07 V8 287 CID BORE - 93mm/3.66""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2006-07 SB2000-51	2.000 O.D., 1.690T I.D., 0.2700 Depth
		2006-07 SB2000-51PM	2.000 O.D., 1.690T I.D., 0.2700 Depth, OEM Equivalent PM Material
	Exh	2006-07 SB1500-50	1½ O.D., 1.203T I.D., 0.2800 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, Seat May Need To Be Machined To Achieve Correct Depth
		2006-07 SB1500-50PM	1½ O.D., 1.203T I.D., 0.2800 Depth, OEM Equivalent PM Material; Seat May Need To Be Machined In Order To Achieve Correct Depth
		2006-07 SB1562-66	1⅙ O.D., 1.265T I.D., 0.2800 Depth, NOTE: Alternate O.D., Check Casting Before Use
2006-07 SB1562-66PM	1⅙ O.D., 1.265T I.D., 0.2800 Depth, OEM Equivalent PM Material; NOTE: Alternate O.D; Check Casting Before Use.		
Valve	Int	2006-07 01918	1.915 Head Diameter
	Exh	2006-07 01919	1.457 Head Diameter
Keeper	Both	2006-07 121-1093	3 RD Bead Type
Stem Seal	Both	2006-07 122-1344	Positive Type, Viton Material, Top Hat Style
Guide	Both	2006-07 140-3026	0.2752 I.D., 1.702 Length, 0.4720 O.D., +2 O/S Available
		2006-07 140-3026H	0.2752 I.D., 1.702 Length, 0.4720 O.D., +2 O/S Available (140-3026H+2), NOTE: Optional Hardened Version; +2 O/S Available
Spring	Both	2006-07 160-1432	1.929 Length, Conical
Lifter	Both	2006-07 VL107	Hydraulic Lash Adjuster Type
Head Bolt Set		2006-07 220-1098	Torque To Yield, Services Engine
Head Saver Shim		2006-07 230-2125	New Hgt. 4.592; 2 Req.

(Cont'd) **MITSUBISHI / INDUSTRIAL**

Engine	Models	Line No.
4 Cylinder		
1440cc, (1.4L), 4G33, Gas, SOHC, 8 Valve, ""Forklift""	Forklift	1
1597cc, (1.6L), 4G32, Gas, SOHC, 8 Valve, ""Forklift""	Forklift	2
1995cc, (2.0L), 4G52, Gas, SOHC, 8 Valve, ""Forklift""	Forklift	3
1997cc, (2.0L), 4G63, Gas, SOHC, 8 Valve, ""Forklift""	Forklift	4
2351cc, (2.4L), 4G64, Gas, SOHC, 8 Valve, ""Forklift""	Forklift	5
2555cc, (2.6L), 4G54, Gas, SOHC, 8 Valve, ""Forklift""	Forklift	6
2606cc, (2.6L), S4E, Gas, SOHC, 8 Valve, ""Forklift""	Forklift	7
3327cc, (3.3L), S4S, Diesel, OHV, 8 Valve, ""Forklift""	Forklift	9
6 Cylinder		
2972cc, (3.0L), 6G72, Gas, SOHC, 12 Valve, ""Forklift""	Forklift	8
3917cc, (3.9L), S6E, Diesel, OHV, 12 Valve, ""Forklift""	Forklift	10
4998cc, (5.0L), S6S, Diesel, OHV, 12 Valve, ""Forklift""	Forklift	11

1440cc, (1.4L), 4G33, Gas, SOHC, 8 Valve, ""Forklift"" **IND4G33 1**
L4 88 CID **BORE - 73mm/2.874""**

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1562-50	1 ⁹ / ₁₆ O.D.,1.260T I.D.,0.2800 Depth
	Exh SB1375-51	1 ⁹ / ₈ O.D.,1.060T I.D.,0.2800 Depth
Valve	Int 10076	1.488 Head Diameter,Square Groove,Square Groove, OEM # MD000480
		1.496 Head Diameter,Round Groove,Round Groove, OEM # MD079524, MD079525
	Exh 10083	1.220 Head Diameter,Square Groove,Square Groove, OEM # MD000481
		1.220 Head Diameter,Round Groove,Round Groove, OEM # MD075927
Keeper	Both 121-1034	1 SQ Bead Type,OEM # MD008760
	121-1039	1 RD Bead Type,OEM # MD061895
Stem Seal	Both 122-1075	Positive Type,Viton Material, Ring & Band Style
	122-1086	Positive Type,Viton Material,Metal Clad Style,OEM # MD197467
Guide	Int 140-7576	0.3150 I.D.,1.735 Length,0.5145 O.D.,OEM # MD000461
	Exh 140-7577	0.3150 I.D.,1.890 Length,0.5143 O.D.,W/ Snap Ring,OEM # MD000471, +2 O/S Available
Spring	Both 160-1584	1.825 Length,OEM # MM130054

1597cc, (1.6L), 4G32, Gas, SOHC, 8 Valve, ""Forklift"" **IND4G32 2**
L4 98 CID **BORE - 76.901mm/3.0276""**

PART	PART NO.	NOTES
Valve	Int 10127	1.496 Head Diameter,Round Groove,OEM # MD075924, MD750925; Round Groove
	Exh 10129	1.220 Head Diameter,Round Groove,OEM # MD075927; Round Groove
Keeper	Both 121-1039	1 RD Bead Type,OEM # MD061895
Stem Seal	Both 122-1086	Positive Type,Viton Material,Metal Clad Style,OEM #S MD197467, MD000508
Guide	Int 140-7576	0.3150 I.D.,1.735 Length,0.5145 O.D.,OEM # MD000461
	Exh 140-7577	0.3150 I.D.,1.890 Length,0.5143 O.D.,W/ Snap Ring,OEM # MD000471
Spring	Both 160-1584	1.825 Length,OEM # MM130054

1995cc, (2.0L), 4G52, Gas, SOHC, 8 Valve, ""Forklift"" **IND4G52 3**
L4 122 CID **BORE - 83.998mm/3.307""**

PART	PART NO.	NOTES
Valve	Int 10065	1.689 Head Diameter,Square Groove,OEM # MD020580
	10141	1.693 Head Diameter,OEM # MD070691

MITSUBISHI / INDUSTRIAL (Cont'd)

3 1995cc, (2.0L), 4G52, Gas, SOHC, 8 Valve, ""Forklift"" IND4G52
 (cont.) L4 122 CID BORE - 83.998mm/3.307""

PART		PART NO.	NOTES
Valve	Exh	10064	1.376 Head Diameter, Square Groove, OEM # MD040539
		10142	1.378 Head Diameter, OEM # MD070693
Keeper	Both	121-1039	1 RD Bead Type, OEM # MD061895; NOTE: For Use With Valves 10141 and 10142
Stem Seal	Both	122-1086	Positive Type, Viton Material, Metal Clad Style, OEM #'S MD197467, MD000508
Guide	Int	140-7574	0.3150 I.D., 1.848 Length, 0.5143 O.D., OEM # MD020551
	Exh	140-7575	0.3150 I.D., 2.046 Length, 0.5145 O.D., W/ Snap Ring, OEM # MD020561
Spring	Both	160-1016	1.830 Length, OEM # MM130062

4 1997cc, (2.0L), 4G63, Gas, SOHC, 8 Valve, ""Forklift"" IND4G63
 L4 122 CID BORE - 85.001mm/3.3465""

PART		PART NO.	NOTES
Valve	Int	10141	1.693 Head Diameter, OEM # MD070691
		10143	1.811 Head Diameter, OEM # MD085253
	Exh	10142	1.378 Head Diameter, OEM # MD070693, MD070694
		10144	1.496 Head Diameter, OEM # MD085254
Keeper	Both	121-1039	1 RD Bead Type, OEM # MD061895
Stem Seal	Both	122-1086	Positive Type, Viton Material, Metal Clad Style, OEM #'S MD197467, MD000508
Guide	Int	140-7574	0.3150 I.D., 1.848 Length, 0.5143 O.D., OEM # MD020551
	Exh	140-7575	0.3150 I.D., 2.046 Length, 0.5145 O.D., W/ Snap Ring, OEM # MD020561
Spring	Both	160-1016	1.830 Length, OEM # MM130062

5 2351cc, (2.4L), 4G64, Gas, SOHC, 8 Valve, ""Forklift"" IND4G64
 L4 143 CID BORE - 86.512mm/3.406""

PART		PART NO.	NOTES
Valve	Int	10143	1.811 Head Diameter, OEM # MD085253
	Exh	10144	1.496 Head Diameter, OEM # MD085254
Stem Seal	Both	122-1086	Positive Type, Viton Material, Metal Clad Style, OEM #'S MD197467, MD000508
Guide	Int	140-7574	0.3150 I.D., 1.848 Length, 0.5143 O.D., OEM # MD020551
	Exh	140-7575	0.3150 I.D., 2.046 Length, 0.5145 O.D., W/ Snap Ring, OEM # MD020561
Spring	Both	160-1016	1.830 Length, OEM # MM130062
Lifter	Both	VL141	Hydraulic Lash Adjuster Type

6 2555cc, (2.6L), 4G54, Gas, SOHC, 8 Valve, ""Forklift"" IND4G54
 L4 156 CID BORE - 91.123mm/3.5875""

PART		PART NO.	NOTES
Valve	Int	10145	1.810 Head Diameter, Round Groove, OEM # MD083848
	Exh	10146S	1.493 Head Diameter, Stellite Face, Round Groove, OEM # MD083851
Stem Seal	Both	122-1086	Positive Type, Viton Material, Metal Clad Style, OEM #'S MD197467, MD000508
Guide	Int	140-7574	0.3150 I.D., 1.848 Length, 0.5143 O.D., OEM # MD020551
	Exh	140-7575	0.3150 I.D., 2.046 Length, 0.5145 O.D., W/ Snap Ring, OEM # MD020561
Spring	Both	160-1016	1.830 Length, OEM # MM130062
Lifter	Both	VL141	Hydraulic Lash Adjuster Type

(Cont'd) **MITSUBISHI / INDUSTRIAL**

2606cc, (2.6L), S4E, Gas, SOHC, 8 Valve, ""Forklift"" **INDS4E 7**
L4 159 CID **BORE - 94.005mm/3.701""**

PART		PART NO.	NOTES
Valve	Int	13051	1.654 Head Diameter,OEM # 3440410100
		13054	1.654 Head Diameter,OEM # 3440400100
	Exh	13052	1.382 Head Diameter,OEM # 3440411100
		13053	1.220 Head Diameter,OEM # 3060401100
Guide	Both	140-3102	0.3152 I.D.,2.205 Length,0.5130 O.D.,OEM # 3060125600

2972cc, (3.0L), 6G72, Gas, SOHC, 12 Valve, ""Forklift"" **IND6G72 8**
V6 181 CID **BORE - 89mm/3.590""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-61	1¾ O.D.,1.445T I.D.,0.3100 Depth
	Exh	SB1562-69	1⅞ O.D.,1.219 I.D.,0.3170 Depth,Also Available In Non-Magnetic (N) Material
		SB1562-69N	1⅞ O.D.,1.219 I.D.,0.3170 Depth,LPG
Valve	Int	10624	1.693 Head Diameter,OEM # MD088811
	Exh	10625	1.378 Head Diameter,OEM # MD088812
Keeper	Both	121-1039	1 RD Bead Type,OEM # MD061895
Stem Seal	Both	122-1086	Positive Type,Viton Material,Metal Clad Style,OEM # MD000508
Guide	Int	140-7576	0.3150 I.D.,1.735 Length,0.5145 O.D.
	Exh	140-7577	0.3150 I.D.,1.890 Length,0.5143 O.D.,W/ Snap Ring,+2 O/S Also Available
Spring	Both	160-1079	1.960 Length,OEM # MD073398
Lifter	Both	VL141	Hydraulic Lash Adjuster Type,OEM #'s MD339767, MD377560, MD377561
Rocker Components	Both	180-1207	Roller Rocker Arm,OEM # MD195450
Head Bolt Set		220-1021	Torque To Yield,Services Engine
Head Saver Shim		230-2006	New Hgt. - 3.3030 - 3.3110; Min. Hgt. - 3.2950, 2 Required

3327cc, (3.3L), S4S, Diesel, OHV, 8 Valve, ""Forklift"" **INDS4S 9**
L4 203 CID **BORE - 94.04mm/3.702""**

PART		PART NO.	NOTES
Valve	Int	13063	1.732 Head Diameter,OEM # 32A0411100
	Exh	13064	1.380 Head Diameter,OEM # 32A0410100
Stem Seal	Both	122-1116	Positive Type,ACM Material,Metal Clad Style,OEM # 32A0402801
Guide	Both	140-3097	0.3157 I.D.,1.970 Length,0.4737 O.D.,OEM # 32A0101600
Spring	Both	160-1514	1.934 Length,OEM # 3060421401, 3060421402

3917cc, (3.9L), S6E, Diesel, OHV, 12 Valve, ""Forklift"" **INDS6E 10**
L6 239 CID **BORE - 94.04mm/3.702""**

PART		PART NO.	NOTES
Valve	Int	13051	1.654 Head Diameter,OEM # 3440410100
		13054	1.654 Head Diameter,OEM # 3440400100
	Exh	13052	1.382 Head Diameter,OEM # 3440411100
		13053	1.220 Head Diameter,OEM # 3060401100
Guide	Both	140-3102	0.3152 I.D.,2.205 Length,0.5130 O.D.,OEM # 3060125600

4998cc, (5.0L), S6S, Diesel, OHV, 12 Valve, ""Forklift"" **INDS6S 11**
L6 305 CID **BORE - 94.04mm/3.702""**

PART		PART NO.	NOTES
Valve	Int	13063	1.732 Head Diameter,OEM # 32A0410100
	Exh	13064	1.380 Head Diameter,OEM # 32A0411100
Stem Seal	Both	122-1116	Positive Type,ACM Material,Metal Clad Style,OEM # 32A0402801
Guide	Both	140-3097	0.3157 I.D.,1.970 Length,0.4737 O.D.,OEM # 32A0101600

MITSUBISHI / INDUSTRIAL (Cont'd)

1 4998cc, (5.0L), S6S, Diesel, OHV, 12 Valve, ""Forklift"" INDS6S
 (cont.) L6 305 CID BORE - 94.04mm/3.702""

PART	PART NO.	NOTES
Spring	Both 160-1514	1.934 Length,OEM # 3060421401, 3060421402

MWM / HEAVY DUTY

Engine Models Line No.

6 Cylinder

6456cc, 394 C.I., (6.4L), 6.10T, Diesel, OHV, 12 Valve, ""10 Series TURBO"" 6.10, 6.10 Turbo, A180, A210LA 1

1 6456cc, 394 C.I., (6.4L), 6.10T, Diesel, OHV, 12 Valve, ""10 Series TURBO"" 6.10T
 L6 394 CID BORE - 103.0mm/4.055""

PART	PART NO.	NOTES
Guide	Both 140-3077	0.3550 I.D.,1.930 Length,0.5920 O.D.,OEM # 961083320024

NEW HOLLAND / TRACTOR

Engine Models Line No.

3 Cylinder

91 C.I., (1.5L), N843-C, Diesel, OHV, 6 Valve, ""Shibaura"" 1

4 Cylinder

135 C.I., (2.2L), N844L-C, Diesel, OHV, 8 Valve, ""Shibaura"" 2

135 C.I., (2.2L), N844LT-C, Diesel, OHV, 8 Valve, ""Shibaura TURBO"" 3

1 91 C.I., (1.5L), N843-C, Diesel, OHV, 6 Valve, ""Shibaura"" NH-N843C
 L3 91 CID BORE - 84.01mm/3.307""

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1558E-1PM	1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # SBA110136300
	Exh SB1400E-1PM	1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # SBAU10136460
Valve	Int 13326	1.457 Head Diameter,OEM # SBA120166350, SBA120166380; NOTE: Late
	Exh 13327	1.299 Head Diameter,OEM # SBA120176360, SBA120176380; NOTE: Late
Keeper	Both 121-1146	1 RD Bead Type,OEM # SBA120226070
Stem Seal	Int 122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # SBA120406070
	Exh 122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # SBA120406050
Guide	Both 140-3202	0.2756 I.D.,1.460 Length,0.5020 O.D.

2 135 C.I., (2.2L), N844L-C, Diesel, OHV, 8 Valve, ""Shibaura"" NH-N844L-C
 L4 135 CID BORE - 84.01mm/3.307""

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1558E-1PM	1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # SBA110136300
	Exh SB1400E-1PM	1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # SBAU10136460
Valve	Int 13326	1.457 Head Diameter,OEM # SBA120166350, SBA120166380; NOTE: Late
	Exh 13327	1.299 Head Diameter,OEM # SBA120176360, SBA120176380; NOTE: Late
Keeper	Both 121-1146	1 RD Bead Type,OEM # SBA120226070
Stem Seal	Int 122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # SBA120406070
	Exh 122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # SBA120406050
Guide	Both 140-3202	0.2756 I.D.,1.460 Length,0.5020 O.D.
Spring	Both 160-1638	1.382 Length,OEM # SBA198216700

(Cont'd) **NEW HOLLAND / TRACTOR**

135 C.I., (2.2L), N844LT-C, Diesel, OHV, 8 Valve, ""Shibaura TURBO"" NH-N844LT-C **3**
L4 135 CID BORE - 84.01mm/3.3075""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1558E-1PM	1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # SBA110136300
	Exh	SB1400E-1PM	1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # SBAU10136460
Valve	Int	13326	1.457 Head Diameter,OEM # SBA120166350, SBA120166380; NOTE: Late
	Exh	13327	1.299 Head Diameter,OEM # SBA120176360, SBA120176380; NOTE: Late
Keeper	Both	121-1146	1 RD Bead Type,OEM # SBA120226070
Stem Seal	Int	122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # SBA120406070
	Exh	122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # SAB120406050
Guide	Both	140-3202	0.2756 I.D.,1.460 Length,0.5020 O.D.
Spring	Both	160-1638	1.382 Length,OEM # SBA198216700

NISSAN / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
1189cc, (1.2L), OHV, GAS, CARB, 8 Valve, E1 (1960-65) . . .	320, 410, Bluebird	1
1237cc, (1.2L), OHV, GAS, CARB, 8 Valve, A12A (1980-82) .	210	2
1288cc, (1.3L), OHV, GAS, CARB, 8 Valve, Vin H, A13 (1974-74)	B210	3
1393cc, (1.4L), OHV, GAS, CARB, 8 Valve, Vin H, P, A14 (1975-82)	210, 310, B210, F10	4
1488cc, (1.5L), OHV, GAS, CARB, 8 Valve, Vin P, A15 (1979-82)	210, 310	5
1488cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin M, E15 (1982-82)	310	6
1488cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin H, M, E15S (1982-83)	Sentra	7
1488cc, (1.5L), SOHC, GAS, FI, 8 Valve, E15T, ""TURBO"" (1983-84)	Pulsar NX	8
1595cc, (1.6L), SOHC, GAS, CARB, 8 Valve, L16 (1968-73) .	510, 521 Pickup, 620 Pickup	9
1595cc, (1.6L), OHV, GAS, CARB, 8 Valve, R16 (1966-70) . .	1600, 411	10
1597cc, (1.6L), DOHC, GAS, FI, 8 Valve, CA16DE (1987-87)	Pulsar NX	11
1597cc, (1.6L), SOHC, GAS, CARB, 8 Valve, Vin M, P, E16 (1983-86)	Pulsar, Pulsar NX, Sentra	12
1597cc, (1.6L), SOHC, GAS, CARB, 8 Valve, Vin P, E16S (1986-87)	Sentra	13
1597cc, (1.6L), SOHC, GAS, FI, 8 Valve, Vin P, E16I (1987-88)	Pulsar NX, Sentra	14
1597cc, (1.6L), SOHC, GAS, FI, 8 Valve, Vin G, GA16I, ""Jet Valve"" (1989-90)	Pulsar NX, Sentra	15
1597cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin A, E, P, GA16DE (1991-99)	200SX, NX, Sentra	16
1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, HR16DE (2009-21)	Kicks, Micra, Versa, Versa Note	17
1618cc, (1.6L), DOHC, GAS, FI, 16 Valve, MR16DDT, ""TURBO"" (2011-19)	Juke, Sentra	18
1688cc, (1.7L), SOHC, DIESEL, FI, 8 Valve, Vin S, CD17 (1983-85)	Sentra	19
1770cc, (1.8L), SOHC, 8 Valve, GAS, CARB, 8 Valve, Vin H, P, L18 (1973-74)	610, 620 Pickup, 710	20

NISSAN / PASSENGER CAR OR TRUCK (Cont'd)

Engine	Models	Line No.
4 Cylinder		
1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, MR18DE (2007-14)	Cube, Versa	21
1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, MRA8DE (2013-19)	Sentra	22
1809cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin C, CA18E, ""TURBO"" (1984-86)	200SX Turbo	23
1809cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin C, CA18DE (1988-89)	Pulsar NX	24
1809cc, (1.8L), DOHC, GAS, FI, 16 Valve, QG18DE (2000-06)	Sentra	25
1952cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin H, L20B (1974-80)	200SX, 510, 610, 620, 710, 720	26
1952cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin P, Z20E (1980-81)	200SX	27
1952cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin H, Z20S (1980-81)	510	28
1952cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin F, Z20 (1983-84)	720 Pickup	29
1974cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin H, CA20S (1982-83)	Stanza	30
1974cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin H, P, CA20E (1984-89)	200SX, Multi, Stanza	31
1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, MR20DE (2007-21)	NV200, Sentra	32
1997cc, (2.0L), DOHC, ELECTRIC/GAS, FI, 16 Valve, MR20DD (2017-21)	Qashqai, Rogue, Rogue Sport	33
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin B, G, SR20DE (1991-01)	200SX, NX, Sentra	34
2164cc, (2.2L), OHV, DIESEL, FI, 8 Valve, Vin S, SD22 (1981-83)	720 Pickup Diesel	35
2187cc, (2.2L), SOHC, GAS, CARB, 8 Valve, Vin M, Z22 (1981-82)	720 Pickup	36
2187cc, (2.2L), SOHC, GAS, FI, 8 Valve, Vin R, Z22E (1982-83)	200SX	37
2389cc, (2.4L), SOHC, GAS, CARB, FI, 8 Valve, Vin N, Z24 (1983-86)	720, D21	38
2389cc, (2.4L), SOHC, GAS, FI, 8 Valve, Vin N, S, Z24I (1986-88)	720, Pathfinder, Van	39
2389cc, (2.4L), SOHC, GAS, FI, 12 Valve, Vin F, H, KA24E (1989-97)	240SX, Axxess, D21, Pickup, Stanza	40
2389cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin A, B, M, KA24DE (1991-04)	240SX, Altima, Frontier, Xterra	41
2488cc, (2.5L), OHV, DIESEL, FI, 8 Valve, Vin J, SD25 (1983-86)	720 Pickup Diesel	43
2488cc, (2.5L), DOHC, ELECTRIC/GAS, GAS, FI, 16 Valve, QR25DE (2002-20)	Altima, Frontier, Rogue, Rogue Select, Sentra, X-Trail	44
2488cc, (2.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, QR25DER, ""Supercharged Hybrid"" (2014-16)	Murano, Pathfinder	45
6 Cylinder		
2393cc, (2.4L), SOHC, GAS, FI, 12 Valve, Vin H, L24E (1977-84)	810, Maxima	42

(Cont'd) NISSAN / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
6 Cylinder		
2565cc, (2.6L), SOHC, GAS, CARB, 12 Valve, Vin R, L26 (1974-74)	260Z .....	.46
2753cc, (2.8L), SOHC, GAS, FI, 12 Valve, Vin H, L28E (1975-83)	280Z, 280ZX .....	.47
2753cc, (2.8L), SOHC, GAS, FI, 12 Valve, Vin C, L28ET, ""TURBO"" (1981-83)	280ZX Turbo .....	.48
2793cc, (2.8L), SOHC, DIESEL, FI, 12 Valve, Vin S, LD28 (1981-83)	810, Maxima .....	.49
2960cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin C, VG30T, ""TURBO"" (1984-89)	300ZX Turbo .....	.50
2960cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin 1, H, W, VG30, VG30E, VG30I (1984-98)	200SX, 300ZX, D21, Maxima, Pathfinder, Pickup, Quest .....	.51
2960cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin R, VG30DE (1990-96)	300ZX .....	.52
2960cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin C, VG30DETT, ""TURBO"" (1990-96)	300ZX Turbo .....	.53
2960cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin E, VE30DE (1992-94)	Maxima .....	.54
2988cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin C, VQ30DE (1995-01)	Maxima .....	.55
3275cc, (3.3L), SOHC, GAS, FI, 12 Valve, Vin A, VG33E (1996-04)	Frontier, Pathfinder, Quest, Xterra .....	.56
3275cc, (3.3L), SOHC, GAS, FI, 12 Valve, VG33ER, ""Supercharged"" (2001-04)	Frontier, Xterra .....	.57
3498cc, (3.5L), DOHC, GAS, FI, 24 Valve, VQ35DD (2017-20)	Pathfinder .....	.58
3498cc, (3.5L), DOHC, GAS, FI, 24 Valve, VQ35DE, ""Car"" (2002-19)	350Z, Altima, Maxima .....	.59
3498cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin A, VQ35DE, ""Truck"" (2001-20)	Murano, Pathfinder, Quest .....	.60
3498cc, (3.5L), DOHC, GAS, FI, 24 Valve, VQ35HR (2007-09)	350Z .....	.61
3696cc, (3.7L), DOHC, GAS, FI, 24 Valve, VQ37VHR (2009-20)	370Z .....	.62
3799cc, (3.8L), DOHC, GAS, FI, 24 Valve, VR38DETT, ""TURBO"" (2009-19)	GT-R .....	.63
3954cc, (4.0L), DOHC, FLEX, GAS, FI, 24 Valve, VQ40DE (2005-20)	Frontier, NV1500, NV2500, NV3500, Pathfinder, Xterra .....	.64
8 Cylinder		
5552cc, (5.6L), DOHC, FLEX, GAS, FI, 32 Valve, VK56DE (2004-17)	Armada, NV2500, NV3500, Pathfinder, Pathfinder Armada, Titan	65
5552cc, (5.6L), DOHC, GAS, FI, 32 Valve, VK56VD (2016-21)	Armada, NV2500, NV3500, Titan, Titan XD .....	.66

1189cc, (1.2L), OHV, GAS, CARB, 8 Valve, E1 **E1 1**
1960-65 **L4 73 CID** **BORE - 73mm/2.87""**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1960-65	SB1500-1	1½ O.D., 1¼ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1960-65	SB1312-6		15/16 O.D., 1¼ I.D., 7/32 Depth
Guide	Exh	1960-65	140-7498	0.3440 I.D., 2.200 Length, 0.5650 O.D.

NISSAN / PASSENGER CAR OR TRUCK (Cont'd)

2 1237cc, (1.2L), OHV, GAS, CARB, 8 Valve, A12A A12A
 1980-82 L4 76 CID BORE - 75mm/2.95"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1980-82	SB1500-56 1½ O.D.,1.275T I.D.,0.2500 Depth,NOTE: Optional, Seat May Need To Be Machined In Order To Achieve Correct Depth
	Exh	1980-82		SB1312-52 1⅝ O.D.,1.060T I.D.,0.2400 Depth
Valve	Int	1980-80	10031 1.462 Head Diameter
Keeper	Both	1980-82	121-1047 1 SQ Bead Type
Stem Seal	Both	1980-82	122-1082 Positive Type,Viton Material,Metal Clad Style
Guide	Both	1980-82	140-7542 0.3155 I.D.,1.930 Length,0.4745 O.D.,W/ Snap Ring,+2 O/S Available

3 1288cc, (1.3L), OHV, GAS, CARB, 8 Valve, Vin H, A13 A13
 1974-74 L4 79 CID BORE - 73mm/2.87"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1974-74	SB1500-56 1½ O.D.,1.275T I.D.,0.2500 Depth,NOTE: Optional, Seat May Need To Be Machined In Order To Achieve Correct Depth
	Exh	1974-74		SB1312-52 1⅝ O.D.,1.060T I.D.,0.2400 Depth
Valve	Int	1974-74	10031 1.462 Head Diameter
Keeper	Both	1974-74	121-1047 1 SQ Bead Type
Stem Seal	Both	1974-74	122-1082 Positive Type,Viton Material,Metal Clad Style
Guide	Int	1974-74	140-7545 0.3160 I.D.,1.930 Length,0.4745 O.D.,W/ Snap Ring, W/ Counterbore,+2 O/S Available
	Exh	1974-74		140-7542 0.3155 I.D.,1.930 Length,0.4745 O.D.,W/ Snap Ring,+2 O/S Available

4 1393cc, (1.4L), OHV, GAS, CARB, 8 Valve, Vin H, P, A14 A14
 1975-82 L4 85 CID BORE - 76mm/2.99"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1975-80	SB1500-56 1½ O.D.,1.275T I.D.,0.2500 Depth,NOTE: Optional, Seat May Need To Be Machined In Order To Achieve Correct Depth
	Exh	1975-82		SB1312-52 1⅝ O.D.,1.060T I.D.,0.2400 Depth
Valve	Int	1975-80	10031 1.462 Head Diameter
Keeper	Both	1975-82	121-1047 1 SQ Bead Type
Stem Seal	Both	1975-82	122-1082 Positive Type,Viton Material,Metal Clad Style
Guide	Int	1975-82	140-7545 0.3160 I.D.,1.930 Length,0.4745 O.D.,W/ Snap Ring, W/ Counterbore,+2 O/S Available
	Exh	1975-82		140-7542 0.3155 I.D.,1.930 Length,0.4745 O.D.,W/ Snap Ring,+2 O/S Available

5 1488cc, (1.5L), OHV, GAS, CARB, 8 Valve, Vin P, A15 A15
 1979-82 L4 91 CID BORE - 76mm/2.99"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1979-82	SB1500-56 1½ O.D.,1.275T I.D.,0.2500 Depth,NOTE: Optional, Seat May Need To Be Machined In Order To Achieve Correct Depth
	Exh	1979-82		SB1312-52 1⅝ O.D.,1.060T I.D.,0.2400 Depth
Valve	Int	1979-80	10031 1.462 Head Diameter
Keeper	Both	1979-82	121-1047 1 SQ Bead Type
Stem Seal	Both	1979-82	122-1116 Positive Type,ACM Material,Metal Clad Style
Guide	Int	1979-82	140-7545 0.3160 I.D.,1.930 Length,0.4745 O.D.,W/ Snap Ring, W/ Counterbore,+2 O/S Available
	Exh	1979-82		140-7542 0.3155 I.D.,1.930 Length,0.4745 O.D.,W/ Snap Ring,+2 O/S Available

(Cont'd) **NISSAN / PASSENGER CAR OR TRUCK**

1488cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin M, E15 **E15 6**
1982-82 L4 91 CID BORE - 76mm/2.99"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1982-82	SB1562-66	1 ⁹ / ₁₆ O.D.,1.265T I.D.,0.2800 Depth
	Exh	1982-82	SB1312-57	1 ⁵ / ₁₆ O.D.,1.060 I.D.,0.2800 Depth
Keeper	Both	1982-82	121-1059	1 RD Bead Type
Stem Seal	Both	1982-82	122-1141	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1982-82	140-7825	0.2760 I.D.,2.167 Length,0.4745 O.D.
Head Saver Shim		1982-82	230-2058	New Hgt.- 4.7240; Min. Hgt.- 4.7120

1488cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin H, M, E15S **E15S 7**
1982-83 L4 91 CID BORE - 76mm/2.99"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1982-83	SB1562-66	1 ⁹ / ₁₆ O.D.,1.265T I.D.,0.2800 Depth
	Exh	1982-83	SB1312-57	1 ⁵ / ₁₆ O.D.,1.060 I.D.,0.2800 Depth
Keeper	Both	1982-83	121-1059	1 RD Bead Type
Stem Seal	Both	1982-83	122-1141	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1982-83	140-7825	0.2760 I.D.,2.167 Length,0.4745 O.D.
Head Saver Shim		1982-83	230-2058	New Hgt.- 4.7200 - 4.7240; Min. Hgt.- 4.7120

1488cc, (1.5L), SOHC, GAS, FI, 8 Valve, E15T, ""TURBO"" **E15T 8**
1983-84 L4 91 CID BORE - 76mm/2.99"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1983-84	SB1312-62	1 ⁵ / ₁₆ O.D.,1.065T I.D.,0.2850 Depth
Keeper	Both	1983-84	121-1059	1 RD Bead Type
Stem Seal	Both	1983-84	122-1141	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1983-84	140-7825	0.2760 I.D.,2.167 Length,0.4745 O.D.

1595cc, (1.6L), SOHC, GAS, CARB, 8 Valve, L16 **L16 9**
1968-73 L4 97 CID BORE - 83mm/3.27"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1968-73	SB1812-50	1 ¹³ / ₁₆ O.D.,1.490T I.D.,0.3070 Depth
	Exh	1968-73	SB1500-54	1 ¹ / ₂ O.D.,1.180T I.D.,0.3070 Depth
Valve	Int	1968-73	10015	1.648 Head Diameter
	Exh	1968-73	10036S	1.382 Head Diameter,Stellite Face
Keeper	Both	1968-73	121-1047	1 SQ Bead Type
Stem Seal	Both	1968-73	122-1263	Positive Type,Viton Material, Ring & Spring Style
Guide	Both	1968-73	140-7499	0.3155 I.D.,2.313 Length,0.4745 O.D.,W/ Snap Ring

1595cc, (1.6L), OHV, GAS, CARB, 8 Valve, R16 **R16 10**
1966-70 L4 97 CID BORE - 87.2mm/3.43"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1966-70	SB1812-55	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D.,0.2780 Depth
	Exh	1966-70	SB1437-53	1 ⁷ / ₁₆ O.D.,1.090T I.D.,0.3540 Depth

1597cc, (1.6L), DOHC, GAS, FI, 8 Valve, CA16DE **CA16DE 11**
1987-87 L4 97 CID BORE - 84.5mm/3.32"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1987-87	SB1375-54	1 ³ / ₈ O.D.,1.022T I.D.,0.2300 Depth
	Exh	1987-87	SB1250-56	1 ¹ / ₄ O.D.,0.905T I.D.,0.2300 Depth
Keeper	Both	1987-87	121-1063	1 RD Bead Type
Stem Seal	Both	1987-87	122-1150	Positive Type,Viton Material,Metal Clad Style

NISSAN / PASSENGER CAR OR TRUCK (Cont'd)

11 1597cc, (1.6L), DOHC, GAS, FI, 8 Valve, CA16DE CA16DE
 (cont.) 1987-87 L4 97 CID BORE - 84.5mm/3.32"

PART	YEARS	PART NO.	NOTES	
Guide	Int	1987-87	140-8190	0.2365 I.D., 1.580 Length, 0.3950 O.D., Tapered Port End
	Exh	1987-87	140-8191	0.2365 I.D., 1.695 Length, 0.3948 O.D., Plain Port End

12 1597cc, (1.6L), SOHC, GAS, CARB, 8 Valve, Vin M, P, E16 E16
 1983-86 L4 97 CID BORE - 76mm/2.99"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1983-86	SB1562-66	1 $\frac{1}{16}$ O.D., 1.265T I.D., 0.2800 Depth
	Exh	1983-86	SB1312-57	1 $\frac{5}{16}$ O.D., 1.060 I.D., 0.2800 Depth
Valve	Int	1983-86	10255	1.460 Head Diameter, Except Canada
	Exh	1983-86	10256	1.185 Head Diameter, Except Canada
Keeper	Both	1983-86	121-1059	1 RD Bead Type
Stem Seal	Both	1983-86	122-1141	Positive Type, Viton Material, Metal Clad Style
Guide	Int	04/85-86	140-7825	0.2760 I.D., 2.167 Length, 0.4745 O.D.
Head Saver Shim		1983-86	230-2058	New Hgt. - 4.7200 - 4.7240; Min. Hgt. - 4.7120

13 1597cc, (1.6L), SOHC, GAS, CARB, 8 Valve, Vin P, E16S E16S
 1986-87 L4 97 CID BORE - 76mm/2.99"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1986-87	SB1562-66	1 $\frac{1}{16}$ O.D., 1.265T I.D., 0.2800 Depth
	Exh	1986-87	SB1312-57	1 $\frac{5}{16}$ O.D., 1.060 I.D., 0.2800 Depth
Valve	Int	1986-87	10255	1.460 Head Diameter
	Exh	1986-87	10256	1.185 Head Diameter
Keeper	Both	1986-87	121-1059	1 RD Bead Type
Stem Seal	Both	1986-87	122-1141	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1986-87	140-7825	0.2760 I.D., 2.167 Length, 0.4745 O.D.
Head Saver Shim		1986-87	230-2058	New Hgt. - 4.7200 - 4.7240; Min. Hgt. - 4.7120

14 1597cc, (1.6L), SOHC, GAS, FI, 8 Valve, Vin P, E16I E16I
 1987-88 L4 97 CID BORE - 76mm/2.99"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1987-88	SB1562-66	1 $\frac{1}{16}$ O.D., 1.265T I.D., 0.2800 Depth
	Exh	1987-88	SB1312-57	1 $\frac{5}{16}$ O.D., 1.060 I.D., 0.2800 Depth
Valve	Int	1987-88	10255	1.460 Head Diameter
	Exh	1987-88	10256	1.185 Head Diameter
Keeper	Both	1987-88	121-1059	1 RD Bead Type
Stem Seal	Both	1987-88	122-1141	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1987-88	140-7825	0.2760 I.D., 2.167 Length, 0.4745 O.D.
Head Saver Shim		1987-88	230-2058	New Hgt. - 4.7200 - 4.7240; Min. Hgt. - 4.7120

15 1597cc, (1.6L), SOHC, GAS, FI, 8 Valve, Vin G, GA16I, ""Jet Valve"" GA16I
 1989-90 L4 97 CID BORE - 76mm/2.99"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1989-90	SB1250-50	1 $\frac{1}{4}$ O.D., 0.965T I.D., $\frac{1}{4}$ Depth
	Exh	1989-90	SB1375-51	1 $\frac{3}{8}$ O.D., 1.060T I.D., 0.2800 Depth
Keeper	Both	1989-90	121-1063	1 RD Bead Type
Stem Seal	Int	1989-90	122-1150	Positive Type, Viton Material, Metal Clad Style
	Exh	1989-90	122-1158	Positive Type, Viton Material, Metal Clad Style

(Cont'd) **NISSAN / PASSENGER CAR OR TRUCK**

1597cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin A, E, P, GA16DE **GA16DE 16**
1991-99 L4 97 CID **BORE - 76mm/2.99"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1991-99	SB1250-54	1¼ O.D., 1.010T I.D., 0.2570 Depth
	Exh	1991-99	SB1062-50	1½ O.D., 0.790 I.D., 0.2540 Depth
Valve	Int	1991-99	10224	1.181 Head Diameter
	Exh	1995-99	10536	0.984 Head Diameter
Keeper	Both	1991-99	121-1064	1 RD Bead Type
Stem Seal	Both	1991-99	122-1162	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1991-99	140-8218	0.2170 I.D., 1.575 Length, 0.3760 O.D.
	Exh	1991-99	140-8213	0.2170 I.D., 1.575 Length, 0.3760 O.D.
Head Saver Shim		1991-96	230-2056	New Hgt. - 4.6380 - 4.6460; Min. Hgt. - 4.6300

1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, HR16DE **NIS-HR16DE 17**
2009-21 L4 98 CID **BORE - 78mm/3.07"**

PART	YEARS	PART NO.	NOTES	
Valve	Int	2009-11	13233	1.226 Head Diameter
	Exh	2009-11	13234	1.002 Head Diameter
Stem Seal	Both	2009-19	122-1433	Positive Type, Viton Material, Metal Clad Style
Spring	Both	2009-11	160-1603	1.706 Length

1618cc, (1.6L), DOHC, GAS, FI, 16 Valve, MR16DDT, ""TURBO"" **NIS-MR16DDT 18**
2011-19 L4 98 CID **BORE - 79.7mm/3.14"**

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2011-19	121-1064	1 RD Bead Type
Stem Seal	Both	12/13/2011	122-1162	Positive Type, Viton Material, Metal Clad Style

1688cc, (1.7L), SOHC, DIESEL, FI, 8 Valve, Vin S, CD17 **CD17 19**
1983-85 L4 103 CID **BORE - 80mm/3.15"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1983-85	SB1375-55	1¾ O.D., 1.120 I.D., 0.3250 Depth
Keeper	Both	1983-85	121-1067	1 SQ Bead Type
Stem Seal	Both	1983-85	122-1139	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1983-85	140-7826	0.2760 I.D., 1.770 Length, 0.4350 O.D., Pre Cut For Seal, Plain Port End
		1983-85	140-7827	0.2760 I.D., 1.770 Length, 0.4348 O.D.
		1983-85	140-8233	0.2765 I.D., 1.890 Length, 0.4350 O.D., Pre Cut For Seal, Tapered Port End, +2 Oversized O.D. Also Available

1770cc, (1.8L), SOHC, 8 Valve, GAS, CARB, 8 Valve, Vin H, P, L18 **L18 20**
1973-74 L4 108 CID **BORE - 85mm/3.35"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1973-74	SB1812-50	1 ¹³ / ₁₆ O.D., 1.490T I.D., 0.3070 Depth
	Exh	1973-74	SB1500-54	1½ O.D., 1.180T I.D., 0.3070 Depth
Valve	Int	1973-74	10015	1.648 Head Diameter
	Exh	1973-74	10036S	1.382 Head Diameter, Stellite Face
Keeper	Both	1973-74	121-1047	1 SQ Bead Type
Stem Seal	Both	1973-74	122-1263	Positive Type, Viton Material, Ring & Spring Style
Guide	Both	1973-74	140-7499	0.3155 I.D., 2.313 Length, 0.4745 O.D., W/ Snap Ring
Spring	Both	1973-74	160-1013	1.770 Length, Inner
		1973-74	160-1019	1.968 Length, Outer

NISSAN / PASSENGER CAR OR TRUCK (Cont'd)

21 1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, MR18DE NIS-MR18DE
 2007-14 L4 110 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES
Valve	Int	2007-14 2010-14	1.327 Head Diameter, W/.2165 Tip To Groove Length 1.337 Head Diameter, W/.1634 Tip To Groove Length, Cube Only
	Exh	2007-14	1.093 Head Diameter, W/.2311 Tip To Groove Length
Keeper	Both	2007-14	1 RD Bead Type
Stem Seal	Both	3/13/2007	122-1162 Positive Type, Viton Material, Metal Clad Style
Spring	Int	2007-12	160-1590 1.694 Length
	Exh	2007-12	160-1600 1.761 Length

22 1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, MRA8DE NIS-MRA8DE
 2013-19 L4 110 CID BORE - 79.7mm/3.14"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2013-19	121-1064 1 RD Bead Type
Stem Seal	Both	2013-19	122-1162 Positive Type, Viton Material, Metal Clad Style
Spring	Int	2013-19	160-1659 2.040 Length, Conical
	Exh	2013-19	160-1658 1.927 Length, Conical

23 1809cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin C, CA18E, ""TURBO"" CA18ET
 1984-86 L4 110 CID BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1984-86	SB1500-54 1½ O.D., 1.180T I.D., 0.3070 Depth
Keeper	Both	1984-86	121-1059 1 RD Bead Type
Stem Seal	Both	1984-86	122-1139 Positive Type, Viton Material, Metal Clad Style
Guide	Int	1984-86	140-7826 0.2760 I.D., 1.770 Length, 0.4350 O.D., Pre Cut For Seal, Plain Port End
	Exh	1984-86	140-7827 0.2760 I.D., 1.770 Length, 0.4348 O.D.
		1984-86	140-8233 0.2765 I.D., 1.890 Length, 0.4350 O.D., Pre Cut For Seal, Tapered Port End, +2 Oversized O.D. Also Available

24 1809cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin C, CA18DE CA18DE
 1988-89 L4 110 CID BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1988-89	SB1500-74 1½ O.D., 1.180T I.D., 0.2140 Depth
	Exh	1988-89	SB1250-56 1¼ O.D., 0.905T I.D., 0.2300 Depth
Keeper	Both	1988-89	121-1063 1 RD Bead Type
Stem Seal	Both	1988-89	122-1150 Positive Type, Viton Material, Metal Clad Style
Guide	Int	1988-89	140-8190 0.2365 I.D., 1.580 Length, 0.3950 O.D., Tapered Port End
	Exh	1988-89	140-8191 0.2365 I.D., 1.695 Length, 0.3948 O.D., Plain Port End

25 1809cc, (1.8L), DOHC, GAS, FI, 16 Valve, QG18DE QG18DE
 2000-06 L4 110 CID BORE - 80mm/3.15"

PART	YEARS	PART NO.	NOTES
Valve	Int	2000-06	10224 1.181 Head Diameter
	Exh	2000-06	10536 0.984 Head Diameter, Except Calif.
Keeper	Both	2000-06	121-1064 1 RD Bead Type
Stem Seal	Both	2000-06	122-1162 Positive Type, Viton Material, Metal Clad Style
Guide	Int	2000-06	140-8218 0.2170 I.D., 1.575 Length, 0.3760 O.D.
	Exh	2000-06	140-8213 0.2170 I.D., 1.575 Length, 0.3760 O.D.
Head Saver Shim		2000-06	230-2157 New Hgt. 4.638 - 4.648; Min. 4.630

(Cont'd) **NISSAN / PASSENGER CAR OR TRUCK**

1952cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin H, L20B **L20B 26**
1974-80 L4 119 CID BORE - 85mm/3.35"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1974-80	SB1812-52	1 ¹³ / ₁₆ O.D., 1.440T I.D., 0.3150 Depth
	Exh	1974-80	SB1500-53	1 ¹ / ₂ O.D., 1.180T I.D., 0.3070 Depth
Valve	Int	1974-80	10015	1.648 Head Diameter
	Exh	1974-80	10036S	1.382 Head Diameter, Stellite Face
Keeper	Both	1974-80	121-1047	1 SQ Bead Type
Stem Seal	Both	1974-80	122-1119	Positive Type, Viton Material, Ring & Spring Style
Guide	Both	1974-80	140-7499	0.3155 I.D., 2.313 Length, 0.4745 O.D., W/ Snap Ring
Spring	Both	1974-80	160-1013	1.770 Length, Inner
		1974-80	160-1019	1.968 Length, Outer

1952cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin P, Z20E **Z20E 27**
1980-81 L4 119 CID BORE - 85mm/3.35"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1980-81	SB1812-54	1 ¹³ / ₁₆ O.D., 1.405T I.D., 0.3150 Depth
	Exh	1980-81	SB1625-53	1 ⁵ / ₈ O.D., 1.255T I.D., 0.3000 Depth
Valve	Int	1980-81	10268	1.658 Head Diameter
	Exh	1980-81	10269	1.500 Head Diameter
Keeper	Both	1980-81	121-1047	1 SQ Bead Type
Stem Seal	Both	1980-81	122-1119	Positive Type, Viton Material, Ring & Spring Style
Guide	Both	1980-81	140-7499	0.3155 I.D., 2.313 Length, 0.4745 O.D., W/ Snap Ring

1952cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin H, Z20S **Z20S 28**
1980-81 L4 119 CID BORE - 85mm/3.35"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1980-81	SB1812-54	1 ¹³ / ₁₆ O.D., 1.405T I.D., 0.3150 Depth
	Exh	1980-81	SB1625-53	1 ⁵ / ₈ O.D., 1.255T I.D., 0.3000 Depth
Valve	Int	1980-81	10268	1.658 Head Diameter
	Exh	1980-81	10269	1.500 Head Diameter
Keeper	Both	1980-81	121-1047	1 SQ Bead Type
Stem Seal	Both	1980-81	122-1119	Positive Type, Viton Material, Ring & Spring Style
Guide	Both	1980-81	140-7499	0.3155 I.D., 2.313 Length, 0.4745 O.D., W/ Snap Ring

1952cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin F, Z20 **Z20 29**
1983-84 L4 119 CID BORE - 85mm/3.35"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1983-84	SB1812-54	1 ¹³ / ₁₆ O.D., 1.405T I.D., 0.3150 Depth
	Exh	1983-84	SB1625-53	1 ⁵ / ₈ O.D., 1.255T I.D., 0.3000 Depth
Keeper	Both	1983-84	121-1047	1 SQ Bead Type
Stem Seal	Both	1983-84	122-1119	Positive Type, Viton Material, Ring & Spring Style
Guide	Both	1983-84	140-7499	0.3155 I.D., 2.313 Length, 0.4745 O.D., W/ Snap Ring

1974cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin H, CA20S **CA20S 30**
1982-83 L4 120 CID BORE - 84.5mm/3.33"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1982-83	SB1500-54	1 ¹ / ₂ O.D., 1.180T I.D., 0.3070 Depth
Valve	Exh	1982-83	10271	1.381 Head Diameter
Keeper	Both	1982-83	121-1059	1 RD Bead Type
Stem Seal	Both	1982-83	122-1139	Positive Type, Viton Material, Metal Clad Style

NISSAN / PASSENGER CAR OR TRUCK (Cont'd)

30 1974cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin H, CA20S CA20S
 (cont.) 1982-83 L4 120 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES	
Guide	Int	1982-83	140-7826 0.2760 I.D., 1.770 Length, 0.4350 O.D., Pre Cut For Seal, Plain Port End	
	Exh	1982-83		140-7827
		1982-83		140-8233
			0.2760 I.D., 1.770 Length, 0.4348 O.D. 0.2765 I.D., 1.890 Length, 0.4350 O.D., Pre Cut For Seal, Tapered Port End, +2 Oversized O.D. Also Available	

31 1974cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin H, P, CA20E CA20E
 1984-89 L4 122 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1984-89	SB1500-54 1½ O.D., 1.180T I.D., 0.3070 Depth	
Valve	Int	1984-89	10270 1.617 Head Diameter	
	Exh	1984-89	10271 1.381 Head Diameter	
Keeper	Both	1984-89	121-1059 1 RD Bead Type	
Stem Seal	Both	1984-89	122-1139 Positive Type, Viton Material, Metal Clad Style	
Guide	Int	1984-89	140-7826 0.2760 I.D., 1.770 Length, 0.4350 O.D., Pre Cut For Seal, Plain Port End	
	Exh	1984-89		140-7827
		1984-89		140-8233
			0.2760 I.D., 1.770 Length, 0.4348 O.D. 0.2765 I.D., 1.890 Length, 0.4350 O.D., Pre Cut For Seal, Tapered Port End, +2 Oversized O.D. Also Available	

32 1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, MR20DE MR20DE
 2007-21 L4 122 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES
Valve	Int	2007-12	13213 1.337 Head Diameter, W/.2165 Tip To Groove Length
		2013-20	13398 1.337 Head Diameter, W/.1634 Tip To Groove Length
	Exh	2007-12	13214 1.093 Head Diameter, W/.2311 Tip To Groove Length
Keeper	Both	2007-20	121-1064 1 RD Bead Type
Stem Seal	Both	2007-20	122-1162 Positive Type, Viton Material, Metal Clad Style
Spring	Int	2007-12	160-1590 1.694 Length
		2013-18	160-1658 1.927 Length, Conical
	Exh	2007-12	160-1600 1.761 Length
		2013-18	160-1659 2.040 Length, Conical

33 1997cc, (2.0L), DOHC, ELECTRIC/GAS, FI, 16 Valve, MR20DD NIS-MR20DD
 2017-21 L4 122 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2017-20	121-1064 1 RD Bead Type
Stem Seal	Both	2017-18	122-1162 Positive Type, Viton Material, Metal Clad Style

34 1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin B, G, SR20DE NIS-SR20DE
 1991-01 L4 122 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES
Valve	Int	1991-94	10228 1.339 Head Diameter, 3.991 Overall Length
		2000-01	10794 1.339 Head Diameter, 3.872 Overall Length
	Exh	1991-96	10229 1.181 Head Diameter, 4.028 Overall Length
		2000-01	10795 1.181 Head Diameter, 3.909 Overall Length
Keeper	Both	1991-01	121-1063 1 RD Bead Type
Stem Seal	Both	1991-01	122-1150 Positive Type, Viton Material, Metal Clad Style
Guide	Int	1991-01	140-8216 0.2365 I.D., 1.690 Length, 0.3955 O.D., Tapered Port End
	Exh	1991-01	140-8217 0.2365 I.D., 1.690 Length, 0.3953 O.D., Plain Port End

(Cont'd) **NISSAN / PASSENGER CAR OR TRUCK**

2164cc, (2.2L), OHV, DIESEL, FI, 8 Valve, Vin S, SD22 SD22 **35**
1981-83 L4 132 CID BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1981-83	SB1437-60	1 ⁷ / ₁₆ O.D., 1.125 I.D., 0.2570 Depth
Spring	Both	1981-83	160-1482	1.955 Length

2187cc, (2.2L), SOHC, GAS, CARB, 8 Valve, Vin M, Z22 Z22 **36**
1981-82 L4 133 CID BORE - 87mm/3.43"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1981-82	SB1812-54	1 ¹³ / ₁₆ O.D., 1.405T I.D., 0.3150 Depth
	Exh	1981-82	SB1625-53	1 ⁵ / ₈ O.D., 1.255T I.D., 0.3000 Depth
Valve	Int	1981-82	10268	1.658 Head Diameter
	Exh	1981-82	10269	1.500 Head Diameter
Keeper	Both	1981-82	121-1047	1 SQ Bead Type
Stem Seal	Both	1981-82	122-1263	Positive Type, Viton Material, Ring & Spring Style
Guide	Both	1981-82	140-7828	0.3155 I.D., 2.660 Length, 0.4745 O.D., W/ Snap Ring

2187cc, (2.2L), SOHC, GAS, FI, 8 Valve, Vin R, Z22E Z22E **37**
1982-83 L4 133 CID BORE - 87mm/3.43"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1982-83	SB1812-54	1 ¹³ / ₁₆ O.D., 1.405T I.D., 0.3150 Depth
	Exh	1982-83	SB1625-53	1 ⁵ / ₈ O.D., 1.255T I.D., 0.3000 Depth
Valve	Int	1982-83	10268	1.658 Head Diameter
	Exh	1982-83	10269	1.500 Head Diameter
Keeper	Both	1982-83	121-1047	1 SQ Bead Type
Stem Seal	Both	1982-83	122-1263	Positive Type, Viton Material, Ring & Spring Style
Guide	Both	1982-83	140-7828	0.3155 I.D., 2.660 Length, 0.4745 O.D., W/ Snap Ring

2389cc, (2.4L), SOHC, GAS, CARB, FI, 8 Valve, Vin N, Z24 Z24 **38**
1983-86 L4 146 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1983-86	SB1812-56	1 ¹³ / ₁₆ O.D., 1.535 I.D., 0.2930 Depth
	Exh	1983-86	SB1625-60	1 ⁵ / ₈ O.D., 1 ¹ / ₄ T I.D., 0.2930 Depth
Valve	Int	1983-86	10268	1.658 Head Diameter
	Exh	1983-86	10269	1.500 Head Diameter
Keeper	Both	1983-86	121-1047	1 SQ Bead Type
Stem Seal	Both	1983-86	122-1119	Positive Type, Viton Material, Ring & Spring Style
Guide	Both	1983-86	140-7828	0.3155 I.D., 2.660 Length, 0.4745 O.D., W/ Snap Ring
Head Saver Shim		1983-86	230-2060	New Hgt. - 3.8860 - 3.9020; Min. Hgt. - 3.8780

2389cc, (2.4L), SOHC, GAS, FI, 8 Valve, Vin N, S, Z24I Z24I **39**
1986-88 L4 146 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1986-88	SB1812-56	1 ¹³ / ₁₆ O.D., 1.535 I.D., 0.2930 Depth
	Exh	1986-88	SB1625-60	1 ⁵ / ₈ O.D., 1 ¹ / ₄ T I.D., 0.2930 Depth
Valve	Int	1986-88	10268	1.658 Head Diameter
	Exh	1986-88	10269	1.500 Head Diameter
Keeper	Both	1986-88	121-1047	1 SQ Bead Type
Stem Seal	Both	1986-88	122-1119	Positive Type, Viton Material, Ring & Spring Style
Guide	Both	1986-88	140-7828	0.3155 I.D., 2.660 Length, 0.4745 O.D., W/ Snap Ring
Head Saver Shim		1986-88	230-2060	New Hgt. - 3.8860 - 3.9020; Min. Hgt. - 3.8780

NISSAN / PASSENGER CAR OR TRUCK (Cont'd)

40 2389cc, (2.4L), SOHC, GAS, FI, 12 Valve, Vin F, H, KA24E
1989-97 L4 146 CID

KA24E
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1989-97	SB1500-53	1½ O.D.,1.180T I.D.,0.3070 Depth
	Exh	1989-97	SB1687-56	1⅞ O.D.,1.375T I.D.,0.2950 Depth
Valve	Int	1989-97	10273	1.339 Head Diameter
	Exh	1989-97	10274S	1.575 Head Diameter,Stellite Face
Keeper	Both	1989-97	121-1062	1 RD Bead Type
Stem Seal	Int	1989-94	122-1139	Positive Type,Viton Material,Metal Clad Style
		1995-97	122-1262	Positive Type,Viton Material,Metal Clad Style
	Exh	1989-94	122-1159	Positive Type,Viton Material,Metal Clad Style
		1995-97	122-1119	Positive Type,Viton Material,Ring & Spring Style
Guide	Int	1989-97	140-8211	0.2760 I.D.,2.070 Length,0.4350 O.D.,Modification on O/A Length Required on Some 240SSX Castings.
	Exh	1989-97	140-8212	0.3155 I.D.,2.205 Length,0.4745 O.D.
Spring	Int	1989-97	160-1271	2.106 Length,Inner
		1989-97	160-1272	2.250 Length,Outer
Rocker Components	Int	1989-97	180-1240	Cam Follower,Front Side, Includes Lash Adj.
		1989-97	180-1265	Cam Follower,Includes Lash Adj., Rear Side
	Exh	1989-97	180-1266	Cam Follower,Includes Lash Adj., # 1, 3
		1989-97	180-1267	Cam Follower,Includes Lash Adj., # 2, 4
Head Saver Shim	1989-97	230-2059	New Hgt.- 3.8900 - 3.8980; Min. Hgt.- 3.8820	

41 2389cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin A, B, M, KA24DE
1991-04 L4 146 CID

KA24DE
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1991-04	SB1500-74	1½ O.D.,1.180T I.D.,0.2140 Depth
	Exh	1991-04	SB1312-52	1⅞ O.D.,1.060T I.D.,0.2400 Depth
Valve	Int	1991-98	10226	1.441 Head Diameter,Except 1998 Altima
		1998-04	10792	1.441 Head Diameter,0.274 Stem Dia., 0.234 Tip End Relief Dia., Exc. 1998 240SX; 2000-01 Altima; '98-04 Frontier; '00-04 Xterra
	Exh	2000-01	02181	1.441 Head Diameter,Altima
		1991-98	10227S	1.232 Head Diameter,Stellite Face,Except 1998 Altima
		1998-04	10793S	1.232 Head Diameter,Stellite Face,0.274 Stem Dia., 0.234 Tip End Relief Dia., Exc. 1998 240SX; 2000-01 Altima; '98-04 Frontier; '00-04 Xterra
2000-01	02182S	1.230 Head Diameter,Stellite Face,Altima		
Keeper	Both	1991-97	121-1062	1 RD Bead Type,'91-94 240SX; '93-97 Altima
		1995-98	121-1064	1 RD Bead Type,240SX
		1998-04	121-1063	1 RD Bead Type,'98-01 Altima; '98-04 Frontier; '00-04 Xterra
Stem Seal	Both	1991-04	122-1262	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1991-04	140-8211	0.2760 I.D.,2.070 Length,0.4350 O.D.,Modification on O/A Length Required on Some 240SX Castings.
	Exh	1991-04	140-8204	0.2760 I.D.,1.550 Length,0.4350 O.D.
Head Saver Shim		1991-94	230-2067	240SX Only. New Hgt.- 4.9720 - 4.9800; Min. Hgt.- 4.9640
		1993-01	230-2068	Altima Only. New Hgt.- 4.9720 - 4.9800; Min. Hgt.- 4.9640
		1995-04	230-2153	240SX,Frontier,Xterra; New Hgt. 4.972-4.980; Min. Hgt. 4.964

42 2393cc, (2.4L), SOHC, GAS, FI, 12 Valve, Vin H, L24E
1977-84 L6 146 CID

L24E
BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1977-84	SB1750-52	1¾ O.D.,1.455T I.D.,0.3070 Depth
	Exh	1977-84	SB1500-54	1½ O.D.,1.180T I.D.,0.3070 Depth

(Cont'd) **NISSAN / PASSENGER CAR OR TRUCK**

2393cc, (2.4L), SOHC, GAS, FI, 12 Valve, Vin H, L24E
1977-84 L6 146 CID

L24E **42**
BORE - 83mm/3.27"" (cont.)

PART	YEARS	PART NO.	NOTES	
Valve	Int	1977-84	10015	1.648 Head Diameter
	Exh	1977-84	10036S	1.382 Head Diameter,Stellite Face
Keeper	Both	1977-84	121-1047	1 SQ Bead Type
Stem Seal	Both	1977-84	122-1119	Positive Type,Viton Material,Ring & Spring Style
Guide	Both	1977-84	140-7499	0.3155 I.D.,2.313 Length,0.4745 O.D.,W/ Snap Ring
Spring	Both	1977-84	160-1013	1.770 Length,Inner
		1977-84	160-1019	1.968 Length,Outer

2488cc, (2.5L), OHV, DIESEL, FI, 8 Valve, Vin J, SD25
1983-86 L4 152 CID

SD25 **43**
BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1983-86	SB1625-59	1 $\frac{5}{8}$ O.D.,1.380 I.D.,0.2570 Depth
	Exh	1983-86	SB1500-70	1 $\frac{1}{2}$ O.D.,1.203 I.D.,0.2830 Depth
Valve	Int	1983-86	10275	1.575 Head Diameter
	Exh	1983-86	10276S	1.339 Head Diameter,Stellite Face
Stem Seal	Both	1983-86	122-1263	Positive Type,Viton Material,Ring & Spring Style
Guide	Both	1983-86	140-8209	0.3155 I.D.,2.045 Length,0.4743 O.D.
Spring	Both	1983-86	160-1482	1.955 Length

2488cc, (2.5L), DOHC, ELECTRIC/GAS, GAS, FI, 16 Valve, QR25DE
2002-20 L4 152 CID

NIS-QR25DE **44**
BORE - 88.9mm/3.50""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2002-15	13077	1.405 Head Diameter,W/.1851 Tip To Groove Length & 3.826 O.A.L.; NOTE: Altima & Sentra 2002-06, Frontier 2005-15, Except Rogue
		2007-13	13079	1.405 Head Diameter,W/.1515 Tip To Groove Length & 3.891 O.A.L.; NOTE: Altima & Sentra, Except Rogue & Frontier
	Exh	2002-14	13078	1.206 Head Diameter,W/.1851 Tip To Groove Length & 3.891 O.A.L.; NOTE: Altima & Sentra 2002-06, Frontier 2005-14, Except Rogue
		2007-13	13080	1.206 Head Diameter,W/.1535 Tip To Groove Length & 3.856 O.A.L.; NOTE: Altima & Sentra, Except Rogue & Frontier
Keeper	Both	2002-20	121-1064	1 RD Bead Type
Stem Seal	Both	2002-20	122-1150	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2002-20	140-8216	0.2365 I.D.,1.690 Length,0.3955 O.D.,Tapered Port End
	Exh	2002-20	140-8217	0.2365 I.D.,1.690 Length,0.3953 O.D.,Plain Port End
Spring	Int	2003-13	160-1590	1.694 Length
	Exh	2003-13	160-1591	1.754 Length
	Both	2002-02	160-1591	1.754 Length
Head Bolt Set		2002-20	220-1117	Torque To Yield,Services Engine
Head Saver Shim		2002-20	230-2139	New Hgt. - 5.095 - 5.100; Min. Hgt. - 5.085

2488cc, (2.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, QR25DER,
""Supercharged Hybrid""

NIS-QR25DER **45**
BORE - 88.9mm/3.50""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2014-16	121-1064	1 RD Bead Type
Stem Seal	Both	2014-16	122-1150	Positive Type,Viton Material,Metal Clad Style

NISSAN / PASSENGER CAR OR TRUCK (Cont'd)

46 2565cc, (2.6L), SOHC, GAS, CARB, 12 Valve, Vin R, L26 L26
 1974-74 L6 156 CID BORE - 83mm/3.26"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1974-74	SB1750-52	1 ³ / ₄ O.D., 1.455T I.D., 0.3070 Depth
	Exh	1974-74	SB1500-54	1 ¹ / ₂ O.D., 1.180T I.D., 0.3070 Depth
Valve	Int	1974-74	10015	1.648 Head Diameter
	Exh	1974-74	10036S	1.382 Head Diameter, Stellite Face
Keeper	Both	1974-74	121-1047	1 SQ Bead Type
Stem Seal	Both	1974-74	122-1263	Positive Type, Viton Material, Ring & Spring Style
Guide	Both	1974-74	140-7499	0.3155 I.D., 2.313 Length, 0.4745 O.D., W/ Snap Ring
Spring		1974-74	160-1013	1.770 Length, Inner
		1974-74	160-1019	1.968 Length, Outer

47 2753cc, (2.8L), SOHC, GAS, FI, 12 Valve, Vin H, L28E L28E
 1975-83 L6 168 CID BORE - 86mm/3.39"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1975-83	SB1812-51	1 ¹³ / ₁₆ O.D., 1.530T I.D., 0.3070 Depth
	Exh	1975-83	SB1500-54	1 ¹ / ₂ O.D., 1.180T I.D., 0.3070 Depth
Valve	Int	1975-80	10056	1.738 Head Diameter, 4.580 Overall Length
	Exh	1975-80	10036S	1.382 Head Diameter, Stellite Face, 4.619 Overall Length
Keeper	Both	1975-83	121-1047	1 SQ Bead Type
Stem Seal	Both	1975-83	122-1119	Positive Type, Viton Material, Ring & Spring Style
Guide	Both	1975-83	140-7499	0.3155 I.D., 2.313 Length, 0.4745 O.D., W/ Snap Ring
Spring		1975-83	160-1013	1.770 Length, Inner
		1975-83	160-1019	1.968 Length, Outer

48 2753cc, (2.8L), SOHC, GAS, FI, 12 Valve, Vin C, L28ET, ""TURBO"" L28ET
 1981-83 L6 168 CID BORE - 86mm/3.39"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1981-83	SB1812-51	1 ¹³ / ₁₆ O.D., 1.530T I.D., 0.3070 Depth
	Exh	1981-83	SB1500-54	1 ¹ / ₂ O.D., 1.180T I.D., 0.3070 Depth
Keeper	Both	1981-83	121-1047	1 SQ Bead Type
Stem Seal	Both	1981-83	122-1119	Positive Type, Viton Material, Ring & Spring Style
Guide	Both	1981-83	140-7499	0.3155 I.D., 2.313 Length, 0.4745 O.D., W/ Snap Ring
Spring		1981-83	160-1013	1.770 Length, Inner
		1981-83	160-1019	1.968 Length, Outer

49 2793cc, (2.8L), SOHC, DIESEL, FI, 12 Valve, Vin S, LD28 LD28
 1981-83 L6 170 CID BORE - 83mm/3.27"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1981-83	SB1437-61	1 ⁷ / ₁₆ O.D., 1.162 I.D., 0.3100 Depth
Keeper	Both	1981-83	121-1047	1 SQ Bead Type
Stem Seal	Both	1981-83	122-1263	Positive Type, Viton Material, Ring & Spring Style
Guide	Both	1981-83	140-7499	0.3155 I.D., 2.313 Length, 0.4745 O.D., W/ Snap Ring

50 2960cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin C, VG30T, ""TURBO"" VG30T
 1984-89 V6 181 CID BORE - 87mm/3.43"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1984-89	SB1812-55	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., 0.2780 Depth
Valve	Int	1984-89	10281	1.657 Head Diameter
	Exh	1984-89	10282	1.382 Head Diameter

(Cont'd) **NISSAN / PASSENGER CAR OR TRUCK**

2960cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin C, VG30T, ""TURBO"" VG30T **50**
1984-89 V6 181 CID BORE - 87mm/3.43"" (cont.)

PART	YEARS	PART NO.	NOTES	
Keeper	Both	1984-89	121-1059	1 RD Bead Type
Stem Seal	Int	1984-89	122-1139	Positive Type,Viton Material,Metal Clad Style
	Exh	1984-89	122-1119	Positive Type,Viton Material, Ring & Spring Style
Guide	Int	1984-89	140-7873	0.2760 I.D.,2.315 Length,0.4423 O.D.,Head Must Be Reamed To .440/.4408 For Guide Installation
	Exh	1984-89	140-8388	0.2760 I.D.,2.315 Length,0.4345 O.D.,Std. O.D.
		1984-89	140-8017	0.3160 I.D.,2.500 Length,0.4820 O.D.,Head Must Be Reamed To .4793/.4802 For Guide Installation
	1984-89	140-8389	0.3160 I.D.,2.500 Length,0.4740 O.D.,Std O.D.	
Spring	Both	1984-88	160-1216	2.065 Length,Outer
Rocker Components	Both	1984-89	180-1264	Cam Follower
Head Saver Shim		1984-89	230-2015	New Hgt.- 4.2047 - 4.2057; Min. Hgt.- 4.1967, 2 Required

2960cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin 1, H, W, VG30, VG30E, VG30I VG30-SC **51**
1984-98 V6 181 CID BORE - 87mm/3.43""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1984-98	SB1812-55	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D.,0.2780 Depth
Valve	Int	1984-98	10281	1.657 Head Diameter
	Exh	1984-95	10282	1.382 Head Diameter
		1996-98	10282S	1.382 Head Diameter,Stellite Face
Keeper	Both	1984-98	121-1059	1 RD Bead Type
Stem Seal	Int	1984-94	122-1262	Positive Type,Viton Material,Metal Clad Style,Maxima Only
		1994-98	122-1139	Positive Type,Viton Material,Metal Clad Style,Quest Only
	Exh	1984-94	122-1119	Positive Type,Viton Material, Ring & Spring Style,Maxima Only
		1994-98	122-1263	Positive Type,Viton Material, Ring & Spring Style,Quest Only
Guide	Int	1984-98	140-7873	0.2760 I.D.,2.315 Length,0.4423 O.D.,Head Must Be Reamed To .440/.4408 For Guide Installation
		1984-98	140-8388	0.2760 I.D.,2.315 Length,0.4345 O.D.,Std. O.D.
	Exh	1984-98	140-8017	0.3160 I.D.,2.500 Length,0.4820 O.D.,Head Must Be Reamed To .4793/.4802 For Guide Installation
		1984-98	140-8389	0.3160 I.D.,2.500 Length,0.4740 O.D.,Std O.D.
Spring	Both	1984-98	160-1216	2.065 Length,Outer
Rocker Components	Both	1984-98	180-1264	Cam Follower
Head Saver Shim		1984-98	230-2015	New Hgt.- 4.2047 - 4.2057; Min. Hgt.- 4.1967, 2 Required

2960cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin R, VG30DE NIS-VG30DE **52**
1990-96 V6 181 CID BORE - 87.1mm/3.43""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1990-96	SB1500-77	1 ¹ / ₂ O.D.,1.175T I.D.,0.2360 Depth
	Exh	1990-96	SB1312-63	1 ⁵ / ₁₆ O.D.,0.965T I.D.,0.2350 Depth
Valve	Int	1990-96	10284	1.339 Head Diameter
	Exh	1990-96	10285S	1.164 Head Diameter,Stellite Face
Keeper	Int	1990-96	121-1063	1 RD Bead Type
Stem Seal	Both	1990-96	122-1150	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1990-96	140-8543	0.2365 I.D.,1.815 Length,0.3955 O.D.
	Exh	1990-96	140-8544	0.2365 I.D.,1.940 Length,0.3953 O.D.

NISSAN / PASSENGER CAR OR TRUCK (Cont'd)

53 2960cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin C, VG30DETT, ""TURBO"" VG30DETT
1990-96 V6 181 CID BORE - 87.1mm/3.43""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1990-96	SB1500-77	1½ O.D.,1.175T I.D.,0.2360 Depth
	Exh	1990-96	SB1312-63	1⅝ O.D.,0.965T I.D.,0.2350 Depth
Valve	Int	1990-96	10284	1.339 Head Diameter
	Exh	1990-96	10285S	1.164 Head Diameter,Stellite Face
Keeper	Both	1990-96	121-1063	1 RD Bead Type
Stem Seal	Both	1990-96	122-1150	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1990-96	140-8543	0.2365 I.D.,1.815 Length,0.3955 O.D.
	Exh	1990-96	140-8544	0.2365 I.D.,1.940 Length,0.3953 O.D.

54 2960cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin E, VE30DE VE30DE
1992-94 V6 181 CID BORE - 87mm/3.43""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1992-94	SB1500-77	1½ O.D.,1.175T I.D.,0.2360 Depth
	Exh	1992-94	SB1312-52	1⅝ O.D.,1.060T I.D.,0.2400 Depth
Keeper	Both	1992-94	121-1063	1 RD Bead Type
Stem Seal	Both	1992-94	122-1150	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1992-94	140-8543	0.2365 I.D.,1.815 Length,0.3955 O.D.
	Exh	1992-94	140-8544	0.2365 I.D.,1.940 Length,0.3953 O.D.

55 2988cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin C, VQ30DE NIS-VQ30DE
1995-01 V6 182 CID BORE - 93mm/3.66""

PART	YEARS	PART NO.	NOTES	
Valve	Int	1995-01	10537	1.417 Head Diameter
	Exh	1995-01	10538	1.232 Head Diameter
Keeper	Both	1995-01	121-1064	1 RD Bead Type
Stem Seal	Both	1995-01	122-1150	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1995-01	140-8190	0.2365 I.D.,1.580 Length,0.3950 O.D.,Tapered Port End
	Exh	1995-01	140-8217	0.2365 I.D.,1.690 Length,0.3953 O.D.,Plain Port End

56 3275cc, (3.3L), SOHC, GAS, FI, 12 Valve, Vin A, VG33E NIS-VG33E
1996-04 V6 200 CID BORE - 91.5mm/3.60""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1996-04	SB1812-55	1⅞ O.D.,1½T I.D.,0.2780 Depth
Valve	Int	1996-04	10281	1.657 Head Diameter
	Exh	1996-04	10282S	1.382 Head Diameter,Stellite Face
Keeper	Both	1996-04	121-1059	1 RD Bead Type
Stem Seal	Int	1996-04	122-1262	Positive Type,Viton Material,Metal Clad Style
	Exh	1999-04	122-1263	Positive Type,Viton Material,Ring & Spring Style
Guide	Int	1996-04	140-8388	0.2760 I.D.,2.315 Length,0.4345 O.D.,Std O.D.
	Exh	1996-04	140-8389	0.3160 I.D.,2.500 Length,0.4740 O.D.,Std O.D.
Spring	Both	1996-04	160-1216	2.065 Length,Outer
Rocker Components	Both	1996-04	180-1264	Cam Follower

57 3275cc, (3.3L), SOHC, GAS, FI, 12 Valve, VG33ER, ""Supercharged"" VG33ER
2001-04 V6 200 CID BORE - 91.5mm/3.60""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2001-04	SB1812-55	1⅞ O.D.,1½T I.D.,0.2780 Depth
Valve	Int	2001-04	10281	1.657 Head Diameter
	Exh	2001-04	10282S	1.382 Head Diameter,Stellite Face

(Cont'd) **NISSAN / PASSENGER CAR OR TRUCK**

3275cc, (3.3L), SOHC, GAS, FI, 12 Valve, VG33ER, ""Supercharged"" VG33ER **57**
2001-04 V6 200 CID BORE - 91.5mm/3.60"" (cont.)

PART	YEARS	PART NO.	NOTES
Keeper	Both	2001-04 121-1059	1 RD Bead Type
Stem Seal	Int	2001-04 122-1263	Positive Type,Viton Material,Ring & Spring Style
	Exh	2001-04 122-1262	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2001-04 140-8388	0.2760 I.D.,2.315 Length,0.4345 O.D.,Std. O.D.
	Exh	2001-04 140-8389	0.3160 I.D.,2.500 Length,0.4740 O.D.,Std. O.D.
Spring	Both	2001-04 160-1216	2.065 Length,Outer
Rocker Components	Both	2001-04 180-1264	Cam Follower

3498cc, (3.5L), DOHC, GAS, FI, 24 Valve, VQ35DD NIS-VQ35DD **58**
2017-20 V6 213 CID BORE - 95.5mm/3.76""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2017-20 121-1064	1 RD Bead Type
Stem Seal	Both	2017-20 122-1150	Positive Type,Viton Material,Metal Clad Style

3498cc, (3.5L), DOHC, GAS, FI, 24 Valve, VQ35DE, ""Car"" NIS-VQ35DE-1 **59**
2002-19 V6 213 CID BORE - 95.5mm/3.76""

PART	YEARS	PART NO.	NOTES
Valve	Int	2002-07 13237	1.463 Head Diameter,'03-06 350Z;'02-06 Altima;'02-07 Maxima
		2007-13 13220	1.449 Head Diameter,'07-13 Altima;'09-13 Maxima
	Exh	2002-06 13238	1.234 Head Diameter,'03-06 350Z;'02-04 Altima & Maxima
		2007-14 13221	1.195 Head Diameter,'07-13 Altima;'09-14 Maxima
Keeper	Both	2002-19 121-1064	1 RD Bead Type
Stem Seal	Both	2002-19 122-1150	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2002-19 140-8190	0.2365 I.D.,1.580 Length,0.3950 O.D.,Tapered Port End
	Exh	2002-19 140-8217	0.2365 I.D.,1.690 Length,0.3953 O.D.,Plain Port End

3498cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin A, VQ35DE, ""Truck"" NIS-VQ35DE-2 **60**
2001-20 V6 213 CID BORE - 95.5mm/3.76""

PART	YEARS	PART NO.	NOTES
Valve	Int	2001-09 13237	1.463 Head Diameter,'03-07 Murano;'01-04 Pathfinder;'04-09 Quest
		2009-14 13220	1.449 Head Diameter,'09-14 Murano;'13 Pathfinder;'11-13 Quest
	Exh	2001-04 13238	1.234 Head Diameter,'03-07 Murano;'01-04 Pathfinder;'04 Quest
		2009-14 13221	1.195 Head Diameter,'09-14 Murano;'13 Pathfinder;'11-13 Quest
Keeper	Both	2001-20 121-1064	1 RD Bead Type
Stem Seal	Both	2001-20 122-1150	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2001-20 140-8190	0.2365 I.D.,1.580 Length,0.3950 O.D.,Tapered Port End
	Exh	2001-20 140-8217	0.2365 I.D.,1.690 Length,0.3953 O.D.,Plain Port End

3498cc, (3.5L), DOHC, GAS, FI, 24 Valve, VQ35HR NIS-VQ35HR **61**
2007-09 V6 213 CID BORE - 95.5mm/3.76""

PART	YEARS	PART NO.	NOTES
Valve	Int	2007-09 13220	1.449 Head Diameter,3.825 O/A Length
	Exh	2007-09 13221	1.195 Head Diameter,3.730 O/A Length
Keeper	Both	2007-09 121-1064	1 RD Bead Type
Stem Seal	Both	2007-09 122-1150	Positive Type,Viton Material,Metal Clad Style

NISSAN / PASSENGER CAR OR TRUCK (Cont'd)

62 3696cc, (3.7L), DOHC, GAS, FI, 24 Valve, VQ37VHR NIS-VQ37VHR
 2009-20 V6 225 CID BORE - 95.5mm/3.76"

PART	YEARS	PART NO.	NOTES
Valve	Exh	10/14/2009 13221	1.195 Head Diameter,3.730 O/A Length
Keeper	Both	2009-20 121-1064	1 RD Bead Type
Stem Seal	Both	12/15/2009 122-1150	Positive Type,Viton Material,Metal Clad Style,TO 12/15

63 3799cc, (3.8L), DOHC, GAS, FI, 24 Valve, VR38DETT, ""TURBO"" VR38DETT
 2009-19 V6 232 CID BORE - 95.5mm/3.76"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2009-19 121-1064	1 RD Bead Type
Stem Seal	Both	2009-19 122-1150	Positive Type,Viton Material,Metal Clad Style

64 3954cc, (4.0L), DOHC, FLEX, GAS, FI, 24 Valve, VQ40DE VQ40DE
 2005-20 V6 241 CID BORE - 95.5mm/3.76"

PART	YEARS	PART NO.	NOTES
Valve	Int	2005-13 13237	1.463 Head Diameter,3.798 O/A Length; NOTE: Old Style Valve, Will Not Work With New Style Short Lifter.
	Exh	2005-15 13238	
Keeper	Both	2005-20 121-1064	1 RD Bead Type
Stem Seal	Both	2005-20 122-1150	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2005-20 140-8216	0.2365 I.D., 1.690 Length,0.3955 O.D., Tapered Port End
	Exh	2005-20 140-8217	

65 5552cc, (5.6L), DOHC, FLEX, GAS, FI, 32 Valve, VK56DE NIS-VK56DE
 2004-17 V8 339 CID BORE - 98mm/3.85"

PART	YEARS	PART NO.	NOTES
Valve	Int	2004-13 13237	1.463 Head Diameter,3.798 O/A Length, Except Flex Fuel; NOTE: Old Style Valve, Will Not Work With New Style Short Lifter.
	Exh	2004-15 13238	
Keeper	Both	2004-17 121-1064	1 RD Bead Type
Stem Seal	Both	2004-17 122-1150	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2004-17 140-8216	0.2365 I.D., 1.690 Length,0.3955 O.D., Tapered Port End
	Exh	2004-17 140-8217	

66 5552cc, (5.6L), DOHC, GAS, FI, 32 Valve, VK56VD NIS-VK56VD
 2016-21 V8 339 CID BORE - 98mm/3.85"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2016-20 121-1064	1 RD Bead Type
Stem Seal	Both	2016-20 122-1150	Positive Type,Viton Material,Metal Clad Style

NISSAN / INDUSTRIAL

Engine	Models	Line No.
4 Cylinder		
1138cc, (1.1L), D11, Gas, OHV, 8 Valve, ""Forklift""	Forklift	1
1171cc, (1.2L), A12, Gas, OHV, 8 Valve, ""Forklift""	Forklift	2
1471cc, (1.5L), J15, Gas, OHV, 8 Valve, ""Forklift""	Forklift	3
1488cc, (1.5L), A15, Gas, OHV, 8 Valve, ""Forklift""	Forklift	4
1982cc, (2.0L), H20, Gas, OHV, 8 Valve, ""Forklift""	Forklift	5

(Cont'd) NISSAN / INDUSTRIAL

Engine	Models	Line No.
4 Cylinder		
1982cc, (2.0L), H20-2, Gas, OHV, 8 Valve, ""Forklift""	Forklift	6
2064cc, (2.1L), K21, Gas, OHV, 8 Valve, ""Forklift""	Forklift	7
2164cc, (2.2L), SD22, Diesel, OHV, 8 Valve, ""Forklift""	Forklift	8
2389cc, (2.4L), Z24, Gas, SOHC, 8 Valve, ""Forklift""	Forklift	9
2472cc, (2.5L), H25, Gas, OHV, 8 Valve, ""Forklift""	Forklift	10
2488cc, (2.5L), K25, Gas, OHV, 8 Valve, ""Forklift""	Forklift	11
2488cc, (2.5L), SD25, Diesel, OHV, 8 Valve, ""Forklift""	Forklift	12
2663cc, (2.7L), TD27, Diesel, OHV, 8 Valve, ""Forklift TURBO""	Forklift	13
6 Cylinder		
2974cc, (3.0L), H30, Gas, OHV, 12 Valve, ""Forklift""	Forklift	14
3245cc, (3.3L), SD33, Diesel, OHV, 12 Valve, ""Forklift""	Forklift	15
3956cc, (4.0L), P40, Gas, OHV, 12 Valve, ""Forklift""	Forklift	16
4169cc, (4.2L), TB42, Gas, OHV, 12 Valve, ""Forklift""	Forklift	17
4169cc, (4.2L), TD42, Diesel, OHV, 12 Valve, ""Forklift N/A & TURBO""	Forklift	18
4479cc, (4.5L), TB45, Gas, OHV, 12 Valve, ""Forklift""	Forklift	19
5653cc, (5.7L), FD6, Diesel, OHV, 12 Valve, ""Forklift""	Forklift	20

1138cc, (1.1L), D11, Gas, OHV, 8 Valve, ""Forklift"" **D11** **1**
L4 69 CID **BORE - 73mm/2.874""**

PART	PART NO.	NOTES
Valve	Int 10030	1.382 Head Diameter,OEM # 13201H1000
	Exh 10034S	1.140 Head Diameter,Stellite Face,OEM # 13202H1000
Stem Seal	Both 122-1082	Positive Type,Viton Material,Metal Clad Style,OEM # 13207H6200
Guide	Int 140-7545	0.3160 I.D.,1.930 Length,0.4745 O.D.,W/ Snap Ring, W/ Counterbore,OEM # 13211H1000
	Exh 140-7542	0.3155 I.D.,1.930 Length,0.4745 O.D.,W/ Snap Ring,OEM # 13213H1000
Spring	Both 160-1515	2.112 Length,OEM # 1320348600

1171cc, (1.2L), A12, Gas, OHV, 8 Valve, ""Forklift"" **IND-A12** **2**
L4 71 CID **BORE - 73mm/2.874""**

PART	PART NO.	NOTES
Valve	Int 10030	1.382 Head Diameter,OEM # 13201H1000
	Exh 10034S	1.140 Head Diameter,Stellite Face,OEM # 13202H1000
Stem Seal	Both 122-1082	Positive Type,Viton Material,Metal Clad Style,OEM # 13207H6200
Guide	Int 140-7545	0.3160 I.D.,1.930 Length,0.4745 O.D.,W/ Snap Ring, W/ Counterbore,OEM # 13211H1000
	Exh 140-7542	0.3155 I.D.,1.930 Length,0.4745 O.D.,W/ Snap Ring,OEM # 13213H1000
Spring	Both 160-1515	2.112 Length,OEM # 1320348600

1471cc, (1.5L), J15, Gas, OHV, 8 Valve, ""Forklift"" **J15** **3**
L4 90 CID **BORE - 78mm/3.07""**

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1625-4	1 $\frac{5}{8}$ O.D.,1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth,+20 O/S Available
Valve	Int 10748	1.492 Head Diameter,Wide Groove, Old Style, OEM # 1320101W00
	10750	1.492 Head Diameter,Narrow Groove, New Style, OEM # 1320101W01
	Exh 10749	1.260 Head Diameter,Wide Groove, Old Style, OEM # 1320201W00
	10751	1.254 Head Diameter,Narrow Groove, New Style, OEM # 1320201W01

NISSAN / INDUSTRIAL (Cont'd)

3 1471cc, (1.5L), J15, Gas, OHV, 8 Valve, ""Forklift"" J15
 (cont.) L4 90 CID BORE - 78mm/3.07""

PART		PART NO.	NOTES
Stem Seal	Both	122-1387	Positive Type,Viton Material,Metal Clad Style,OEM # 13207B5100
Guide	Int	140-7495	0.3440 I.D.,1.870 Length,0.5650 O.D.,OEM # 1321101W10
	Exh	140-7498	0.3440 I.D.,2.200 Length,0.5650 O.D.,OEM # 1321301W10
Spring	Both	160-1516	1.920 Length,OEM # 1320321002

4 1488cc, (1.5L), A15, Gas, OHV, 8 Valve, ""Forklift"" A15
 L4 91 CID BORE - 75.99mm/2.972""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-56	1½ O.D.,1.275T I.D.,0.2500 Depth,NOTE: Optional, Seat May Need To Be Machined In Order To Achieve Correct Depth
	Exh	SB1312-52	1⅝ O.D.,1.060T I.D.,0.2400 Depth
Valve	Int	10031	1.462 Head Diameter,OEM # 13201H6200
Keeper	Both	121-1047	1 SQ Bead Type,OEM # 13210U0100
Stem Seal	Both	122-1082	Positive Type,Viton Material,Metal Clad Style,OEM # 13207H6200
Guide	Int	140-7545	0.3160 I.D.,1.930 Length,0.4745 O.D.,W/ Snap Ring, W/ Counterbore,OEM # 13212H8510
	Exh	140-7542	0.3155 I.D.,1.930 Length,0.4745 O.D.,W/ Snap Ring,OEM # 13213H2311

5 1982cc, (2.0L), H20, Gas, OHV, 8 Valve, ""Forklift"" H20
 L4 121 CID BORE - 87.2mm/3.433""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-1	1⅞ O.D.,1⅜ I.D.,¼ Depth,+10 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh	SB1437-6	1⅞ O.D.,1⅞ I.D.,⅝ Depth
Valve	Int	10752	1.653 Head Diameter,OEM # 13201F1800
	Exh	10753	1.260 Head Diameter,OEM # 13202P5100
Stem Seal	Both	122-1377	Positive Type,Viton Material,Top Hat Style,OEM # 1320766700
Guide	Int	140-7495	0.3440 I.D.,1.870 Length,0.5650 O.D.,OEM # 1321130001
	Exh	140-7498	0.3440 I.D.,2.200 Length,0.5650 O.D.,OEM # 1321330001
Spring	Both	160-1482	1.955 Length,OEM # 1320332200

6 1982cc, (2.0L), H20-2, Gas, OHV, 8 Valve, ""Forklift"" H20-2
 L4 121 CID BORE - 87.2mm/3.433""

PART		PART NO.	NOTES
Valve	Int	02243	1.384 Head Diameter,7mm Stem Dia., OEM # 1320150K00
	Exh	02244	1.185 Head Diameter,7mm Stem Dia., OEM # 1320250K02
Keeper	Both	121-1059	1 RD Bead Type,OEM # 1321001M01
Stem Seal	Both	122-1139	Positive Type,Viton Material,Metal Clad Style,7mm Stem Dia., OEM # 1320753F00
Guide	Int	140-3000	0.2770 I.D.,1.660 Length,0.4390 O.D.,7mm Valve Stem
	Exh	140-3001	0.2770 I.D.,1.990 Length,0.4390 O.D.,7mm Valve Stem
Spring	Both	160-1136	1.760 Length,H20-II Only, OEM # 1320350K00

7 2064cc, (2.1L), K21, Gas, OHV, 8 Valve, ""Forklift"" K21
 L4 126 CID BORE - 89.025mm/3.505""

PART		PART NO.	NOTES
Valve	Int	13084	1.503 Head Diameter,OEM # 13201FY500
	Exh	13085	1.267 Head Diameter,OEM # 13202FU400
Keeper	Both	121-1067	1 SQ Bead Type,OEM # 1321016A00

(Cont'd) NISSAN / INDUSTRIAL**2064cc, (2.1L), K21, Gas, OHV, 8 Valve, ""Forklift""**

L4 126 CID

K21 7**BORE - 89.025mm/3.505"" (cont.)**

PART		PART NO.	NOTES
Stem Seal	Both	122-1139	Positive Type, Viton Material, Metal Clad Style, OEM # 1320753F00, 1320753G00
Guide	Both	140-7826	0.2760 I.D., 1.770 Length, 0.4350 O.D., Pre Cut For Seal, Plain Port End, OEM # 13212FY500
Spring	Both	160-1505	1.807 Length, OEM # 13203FY50A
Head Saver Shim		230-2193	New Hgt. - 4.016; Min. Hgt. - N/A

2164cc, (2.2L), SD22, Diesel, OHV, 8 Valve, ""Forklift""

L4 132 CID

IND-SD22 8**BORE - 83.007mm/3.2680""**

PART		PART NO.	NOTES
Valve	Int	10288	1.496 Head Diameter, OEM # 13201Y5200
	Exh	10289S	1.260 Head Diameter, OEM # 13202Y5200
Stem Seal	Both	122-1263	Positive Type, Viton Material, Ring & Spring Style, OEM # 1320781W00
Guide	Both	140-8209	0.3155 I.D., 2.045 Length, 0.4743 O.D., OEM # 13211V1700, 13213V1700
Spring	Both	160-1482	1.955 Length, OEM # 13203T7200

2389cc, (2.4L), Z24, Gas, SOHC, 8 Valve, ""Forklift""

L4 146 CID

IND-Z24 9**BORE - 89.00mm/3.503""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-60	1 $\frac{5}{8}$ O.D., 1 $\frac{1}{4}$ T I.D., 0.2930 Depth
	Exh	SB1812-56	1 $\frac{13}{16}$ O.D., 1.535 I.D., 0.2930 Depth
Valve	Int	10268	1.658 Head Diameter, OEM # 13201N8501
	Exh	10269	1.500 Head Diameter, OEM # 13202N8500
Keeper	Both	121-1047	1 SQ Bead Type, OEM # 13210U0100
Stem Seal	Both	122-1119	Positive Type, Viton Material, Ring & Spring Style, OEM # 1320781W00
Guide	Both	140-7828	0.3155 I.D., 2.660 Length, 0.4745 O.D., W/ Snap Ring, OEM # 13213W0500, 13213W0510
Head Saver Shim		230-2060	New Hgt - 3.8860 - 3.9020; Min. Hgt. - 3.7870

2472cc, (2.5L), H25, Gas, OHV, 8 Valve, ""Forklift""

L4 151 CID

H25 10**BORE - 92mm/3.6280""**

PART		PART NO.	NOTES
Valve	Int	02243	1.384 Head Diameter, OEM # 1320150K00
	Exh	02244	1.185 Head Diameter, OEM # 1320250K02
Keeper	Both	121-1059	1 RD Bead Type, OEM # 1321001M01
Stem Seal	Both	122-1139	Positive Type, Viton Material, Metal Clad Style, OEM # 1320753F00
Guide	Int	140-3000	0.2770 I.D., 1.660 Length, 0.4390 O.D.
	Exh	140-3001	0.2770 I.D., 1.990 Length, 0.4390 O.D.
Spring	Both	160-1136	1.760 Length, OEM # 1320250K00

2488cc, (2.5L), K25, Gas, OHV, 8 Valve, ""Forklift""

L4 152 CID

K25 11**BORE - 89.025mm/3.505""**

PART		PART NO.	NOTES
Valve	Int	13084	1.503 Head Diameter, OEM # 13201FY500
	Exh	13085	1.267 Head Diameter, OEM # 13202FU400
Keeper	Both	121-1067	1 SQ Bead Type, OEM # 1321016A00
Stem Seal	Both	122-1139	Positive Type, Viton Material, Metal Clad Style, OEM # 1320753F00, 1320753G00

NISSAN / INDUSTRIAL (Cont'd)

11 2488cc, (2.5L), K25, Gas, OHV, 8 Valve, ""Forklift"" K25
 (cont.) L4 152 CID BORE - 89.025mm/3.505""

PART		PART NO.	NOTES
Guide	Both	140-7826	0.2760 I.D., 1.770 Length, 0.4350 O.D., Pre Cut For Seal, Plain Port End, OEM # 13212FY500
Spring	Both	160-1505	1.807 Length, OEM # 13203FY50A
Head Saver Shim		230-2193	New Hgt. - 4.016; Min. Hgt. - N/A

12 2488cc, (2.5L), SD25, Diesel, OHV, 8 Valve, ""Forklift"" IND-SD25
 L4 152 CID BORE - 89.90mm/3.54""

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1625-59 SB1500-70	1 ⁵ / ₈ O.D., 1.380 I.D., 0.2570 Depth 1 ¹ / ₂ O.D., 1.203 I.D., 0.2830 Depth
Valve	Int Exh	10275 10276S	1.575 Head Diameter, OEM # 13201L2000 1.339 Head Diameter, Stellite Face, OEM # 13202L2000
Stem Seal	Both	122-1263	Positive Type, Viton Material, Ring & Spring Style, OEM # 1320781W00
Guide	Both	140-8209	0.3155 I.D., 2.045 Length, 0.4743 O.D., OEM # 13211V1700, 13213V1700
Spring	Both	160-1482	1.955 Length, OEM # 13203T7200

13 2663cc, (2.7L), TD27, Diesel, OHV, 8 Valve, ""Forklift TURBO"" TD27
 L4 163 CID BORE - 96.012mm/3.78""

PART		PART NO.	NOTES
Valve	Int Exh	13058 13059	1.712 Head Diameter, OEM # 1320143G01 1.496 Head Diameter, OEM # 1320243G01
Guide	Both	140-3093	0.3153 I.D., 1.970 Length, 0.4740 O.D., OEM # 1321254T01
Spring	Both	160-1518	2.067 Length, OEM # 1320243G10

14 2974cc, (3.0L), H30, Gas, OHV, 12 Valve, ""Forklift"" H30
 L6 182 CID BORE - 87.2mm/3.433""

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1687-1 SB1437-6	1 ¹¹ / ₁₆ O.D., 1 ¹⁹ / ₃₂ I.D., 1/4 Depth, +10 O/S Available, Also Available In Non-Magnetic (N) Material 1 ⁷ / ₁₆ O.D., 1 ¹ / ₈ I.D., 5/16 Depth
Valve	Int Exh	10752 10753	1.653 Head Diameter, OEM # 13201F1800 1.260 Head Diameter, OEM # 13202P5100
Stem Seal	Both	122-1377	Positive Type, Viton Material, Top Hat Style, OEM # 1320766700
Guide	Int Exh	140-7495 140-7498	0.3440 I.D., 1.870 Length, 0.5650 O.D., OEM # 1321258001 0.3440 I.D., 2.200 Length, 0.5650 O.D., OEM # 1321358001
Spring	Both	160-1482	1.955 Length, OEM # 13203T7200

15 3245cc, (3.3L), SD33, Diesel, OHV, 12 Valve, ""Forklift"" SD33
 L6 198 CID BORE - 82.979mm/3.2669""

PART		PART NO.	NOTES
Valve	Int Exh	10288 10289S	1.496 Head Diameter, OEM # 13201Y5200 1.260 Head Diameter, OEM # 13202Y5200
Guide	Both	140-8209	0.3155 I.D., 2.045 Length, 0.4743 O.D., OEM # 13211V1700, 13213V1700
Spring	Both	160-1482	1.955 Length, OEM # 13203T7200

16 3956cc, (4.0L), P40, Gas, OHV, 12 Valve, ""Forklift"" P40
 L6 241 CID BORE - 85.690mm/3.3736""

PART		PART NO.	NOTES
Stem Seal	Both	122-1387	Positive Type, Viton Material, Metal Clad Style, OEM # 13207C6000; NOTE: Late Castings

(Cont'd) **NISSAN / INDUSTRIAL**

3956cc, (4.0L), P40, Gas, OHV, 12 Valve, ""Forklift"" **P40 16**
BORE - 85.690mm/3.3736"" (cont.)
L6 241 CID

PART		PART NO.	NOTES
Stem Seal	Both	122-1431	Umbrella Type,Poly Material,Umbrella Style,OEM# 1320758000; Note: Early Castings
Guide	Int	140-3088	0.3420 I.D.,2.480 Length,0.5640 O.D.,OEM # 13212C6001
	Exh	140-3089	0.3420 I.D.,2.640 Length,0.5640 O.D.,OEM # 13213C6001
Spring	Both	160-1517	2.311 Length,OEM # 13203C8000

4169cc, (4.2L), TB42, Gas, OHV, 12 Valve, ""Forklift"" **TB42 17**
BORE - 95.999mm/3.7795""
L6 254 CID

PART		PART NO.	NOTES
Valve	Int	13065	1.854 Head Diameter,OEM # 1320103J10, 13201VC000
	Exh	13066	1.500 Head Diameter,Stellite Face,OEM # 1320203J00, 13202VC000
Keeper	Both	121-1047	1 SQ Bead Type,OEM # 13210U0100
Stem Seal	Both	122-1119	Positive Type,Viton Material,Ring & Spring Style,OEM # 1320781W00
Guide	Int	140-3091	0.3153 I.D.,2.130 Length,0.4820 O.D.,OEM # 1321203J10
	Exh	140-3092	0.3153 I.D.,2.090 Length,0.4820 O.D.,OEM # 1321303J10

4169cc, (4.2L), TD42, Diesel, OHV, 12 Valve, ""Forklift N/A & TURBO"" **TD42 18**
BORE - 96.03mm/3.7807""
L6 254 CID

PART		PART NO.	NOTES
Valve	Int	13058	1.712 Head Diameter,OEM # 1320143G01
	Exh	13059	1.496 Head Diameter,OEM # 1320243G01
Guide	Both	140-3093	0.3153 I.D.,1.970 Length,0.4740 O.D.,OEM # 1321254T01
Spring	Both	160-1518	2.067 Length,OEM # 1320243G10

4479cc, (4.5L), TB45, Gas, OHV, 12 Valve, ""Forklift"" **TB45 19**
BORE - 99.5mm/3.917""
L6 273 CID

PART		PART NO.	NOTES
Valve	Int	13065	1.854 Head Diameter,OEM # 13201VC000
	Exh	13066	1.500 Head Diameter,Stellite Face,OEM # 13202VC000
Keeper	Both	121-1047	1 SQ Bead Type,OEM # 13210U0100
Stem Seal	Both	122-1119	Positive Type,Viton Material,Ring & Spring Style,OEM # 1320742L00
		122-1159	Positive Type,Viton Material,Metal Clad Style,OEM # 1320740F00
Spring	Both	160-1564	1.686 Length,Inner, OEM # 13204VB005
		160-1565	1.901 Length,Outer, OEM # 13203VB005

5653cc, (5.7L), FD6, Diesel, OHV, 12 Valve, ""Forklift"" **FD6 20**
BORE - 100.025mm/3.938""
L6 345 CID

PART		PART NO.	NOTES
Valve	Int	13057	1.850 Head Diameter,OEM # 13201Z5000
	Exh	13134S	1.496 Head Diameter,Stellite Face,OEM # 1320275001, 13202T9000
Guide	Both	140-3086	0.3544 I.D.,2.365 Length,0.5535 O.D.,OEM # 13211Z5001

OLIVER / TRACTOR

Engine	Models	Line No.
6 Cylinder		
231 C.I., (3.8L), 188D, Diesel, OHV, 12 Valve, ""Waukesha""	Wheel Tractor, 188D, Super 188 D, 88D, 880D	1
231 C.I., (3.8L), 1600, Diesel, OHV, 12 Valve, ""Waukesha""	1600	2
283 C.I., (4.6L), 1650, Diesel, OHV, 12 Valve, ""Waukesha""	1655, 1800, 1850	3

OLIVER / TRACTOR (Cont'd)

1 231 C.I., (3.8L), 188D, Diesel, OHV, 12 Valve, ""Waukesha"" **188-D_SUP**
L6 231 CID **BORE - 90mm/3.543""**

PART		PART NO.	NOTES
Guide	Int	140-1954	0.3745 I.D.,3.188 Length,0.6258 O.D.
	Exh	140-1953	0.3745 I.D.,2.313 Length,0.6260 O.D.

2 231 C.I., (3.8L), 1600, Diesel, OHV, 12 Valve, ""Waukesha"" **1600**
L6 231 CID **BORE - 90mm/3.543""**

PART		PART NO.	NOTES
Guide	Exh	140-1927	0.3745 I.D.,2.625 Length,0.6257 O.D.

3 283 C.I., (4.6L), 1650, Diesel, OHV, 12 Valve, ""Waukesha"" **1650**
L6 283 CID **BORE - 98.4mm/3.875""**

PART		PART NO.	NOTES
Guide	Int	140-1923	0.3745 I.D.,2.938 Length,0.6258 O.D.
	Exh	140-1924	0.3745 I.D.,2.250 Length,0.6260 O.D.

OMC / MARINE

Engine	Models	Line No.
4 Cylinder		
153 C.I., (2.5L), 153, Gas, CARB, OHV, 8 Valve, ""GM Engine""	100, 110, & 120 H.P.	1
181 C.I., (3.0L), 181, Gas, CARB, OHV, 8 Valve, ""GM Engine""	140 H.P.	2
6 Cylinder		
250 C.I., (4.1L), 250, Gas, CARB, OHV, 12 Valve, ""Chevrolet Engine""	165 H.P.	3
8 Cylinder		
283 C.I., (4.6L), 283, Gas, CARB, OHV, 16 Valve, ""Chevrolet Engine""	185 H.P.	4
302 C.I., (5.0L), 302, Gas, CARB, OHV, 16 Valve, ""Ford Engine""	170, 175 & 190 H.P.	5
307 C.I., (5.0L), 307, Gas, CARB, OHV, 16 Valve, ""Chevrolet Engine""	210, 215, 225, 230, 235, 245 H.P.	6
350 C.I., (5.7L), 350, Gas, CARB, OHV, 16 Valve, ""Chevrolet Engine""	250, 260, & 290 H.P.	7
351 C.I., (5.8L), 351, Gas, CARB, OHV, 16 Valve, ""Ford Engine""		8

1 153 C.I., (2.5L), 153, Gas, CARB, OHV, 8 Valve, ""GM Engine"" **OMC153**
L4 153 CID **BORE - 98.425mm/3.80""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	SB1562-9	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	01193	1.720 Head Diameter,+3 & +15 O/S Stem Available
	Exh	01206S	1.500 Head Diameter,Stellite Face,+15 O/S Stem Available
		01646S	1.500 Head Diameter,Inconel, Stellite Face,W/ .3719 Stem Dia., LPG
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type,Tef/Rub Material,1-Ring Style,Machine Guide To 0.562 O.D.
		122-1037	Umbrella Type,Poly Material,Umbrella Style
		122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		122-1270	Umbrella Type,Viton Material,Umbrella Style

153 C.I., (2.5L), 153, Gas, CARB, OHV, 8 Valve, ""GM Engine""
L4 153 CID**OMC153 1**
BORE - 98.425mm/3.80"" (cont.)

PART		PART NO.	NOTES
Guide	Int	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
Spring	Both	160-1117	2.030 Length,1st Design
		160-1125	2.050 Length,W/ Damper,2nd Design, W/O Rotator
Lifter	Both	VL37	Hydraulic Type
Rocker Components	Both	181-1012 184-1038 183-1024	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut, 3/8 Smooth Ball, 3/8
Push Rod	Both	192-1330	9.682 Length

181 C.I., (3.0L), 181, Gas, CARB, OHV, 8 Valve, ""GM Engine""
L4 181 CID**OMC181 2**
BORE - 101.6mm/4.00""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth,W/ 1.720 Valve Head Dia.
		SB2000-7	2.000 O.D.,1 ¹³ / ₁₆ I.D., ⁷ / ₃₂ Depth,W/ 1.940 Valve Head Dia.
	Exh	SB1562-9	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material,W/ 1.500 Valve Head
		SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.600 Valve Head Dia.
Valve	Int	01193	1.720 Head Diameter,+3 & +15 O/S Stem Available
		01195	1.940 Head Diameter,+3 & +15 O/S Stem Available
	Exh	00919	1.600 Head Diameter
		01206S	1.500 Head Diameter,Stellite Face,+15 O/S Stem Available
		01646S	1.500 Head Diameter,Inconel, Stellite Face,W/.3719 Stem Dia.
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1075 122-1238	Positive Type,Viton Material,Ring & Band Style Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	140-9459	0.3430 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	140-9946	0.3430 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1076	2.110 Length
Lifter	Both	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		VL73	Hydraulic Type
Rocker Components	Both	180-1040 180-1041 187-1014	Rocker Arm, Stamped Steel,R.H. Rocker Arm, Stamped Steel,L.H. Retainer
Push Rod	Both	192-1330	9.682 Length

250 C.I., (4.1L), 250, Gas, CARB, OHV, 12 Valve, ""Chevrolet Engine""
L6 250 CID**OMC250 3**
BORE - 98.425mm/3.80""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	SB1562-9	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	01193	1.720 Head Diameter,+3 & +15 O/S Stem Available
	Exh	01206S	1.500 Head Diameter,Stellite Face,+15 O/S Stem Available
Keeper	Both	121-1003	1 SQ Bead Type

OMC / MARINE (Cont'd)

3 250 C.I., (4.1L), 250, Gas, CARB, OHV, 12 Valve, ""Chevrolet Engine"" **OMC250**
 (cont.) L6 250 CID BORE - 98.425mm/3.80""

PART		PART NO.	NOTES
Stem Seal	Both	122-1037	Umbrella Type,Poly Material,Umbrella Style
		122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
		122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 11/32 Std. Stem, Use 122-1238 +15 For Oversize Stems
		122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Both	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	160-1125	2.050 Length,W/ Damper
		160-1148	1.900 Length
Lifter	Both	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		VL73	Hydraulic Type
Rocker Components	Both	181-1012	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut, 3/8 Smooth Ball, 3/8
		184-1038	
		183-1024	
Push Rod	Both	192-1330	9.682 Length

4 283 C.I., (4.6L), 283, Gas, CARB, OHV, 16 Valve, ""Chevrolet Engine"" **OMC283**
 V8 283 CID BORE - 98.425mm/3.80""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3	1 19/16 O.D.,1 1/2 T I.D.,7/32 Depth
	Exh	SB1562-9	1 1/16 O.D.,1 5/16 T I.D.,7/32 Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	01193	1.720 Head Diameter,+3 & +15 O/S Stem Available
	Exh	01206S	1.500 Head Diameter,Stellite Face,+15 O/S Stem Available
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1037	Umbrella Type,Poly Material,Umbrella Style
		122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
		122-1074	Positive Type,Viton Material,Ring & Band Style
		122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 11/32 Std. Stem, Use 122-1238 +15 For Oversize Stems
		122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Int	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
Spring	Both	160-1117	2.030 Length,W/ 1.220 O.D.
		160-1125	2.050 Length,W/ Damper
		160-1144	2.048 Length,W/ Damper
		160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Lifter	Both	VL37	Hydraulic Type
Rocker Components	Both	180-1228	Rocker Arm
		180-1283	Rocker Arm, Rail Type,Optional
		181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional
		184-1038	Nut, 3/8
		183-1017	Smooth Ball, 3/8

283 C.I., (4.6L), 283, Gas, CARB, OHV, 16 Valve, ""Chevrolet Engine"" **OMC283 4**
 V8 283 CID **BORE - 98.425mm/3.80"" (cont.)**

PART		PART NO.	NOTES
Push Rod	Both	192-1331	7.793 Length

302 C.I., (5.0L), 302, Gas, CARB, OHV, 16 Valve, ""Ford Engine"" **OMC302F 5**
 V8 302 CID **BORE - 101.6mm/4.00""**

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1812-3 SB1562-1	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth, W/ 1.782 Valve Head Dia. 1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.451 or 1.461 Valve Head Dia.
Valve	Int Exh	01137 01328 01135 01135S 01327	1.781 Head Diameter, 170 & 175 HP, +15 O/S Stem Available 1.782 Head Diameter, 190 HP W/ A11 & M Suffixes, +3 & +15 O/S Stem Available 1.451 Head Diameter, 170 & 175 HP Note: Does Not Require Lash Cap, +3 & +15 O/S Stem Available 1.451 Head Diameter, Stellite Face, 170 & 175 HP Note: Does Not Require Lash Cap, +3 & +15 O/S Stem Available; Optional Stellite Face Valve 1.461 Head Diameter, 190 HP W/ A11 & M Suffixes
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1038 122-1075 122-1238	Umbrella Type, Poly Material, Umbrella Style Positive Type, Viton Material, Ring & Band Style Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ ¹¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Both	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	160-1004 160-1024 160-1041 160-1151	2.060 Length 1.923 Length, W/ Rotator, W/ .185 Wire Dia. 1.965 Length 1.970 Length
Lifter	Both	VL35	Hydraulic Type
Rocker Components	Both	180-1234 180-1238 181-1035 181-1041 184-1022 184-1035 184-1038 184-1039 183-1020 183-1022 183-1030	Rocker Arm, Stamped Rocker Arm, Cast, Rail Type Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) ⁵ / ₁₆ Bolt, From S/N BEO,001 Rocker Arm Kit, Includes (1) Cast Rail Type R. Arm, (1) Grooved Ball, (1) ³ / ₈ Nut, (1) ⁵ / ₁₆ Nut, To S/N BEO,001 +6 Oversize Stud, ⁵ / ₁₆ Bolt W/Washer, ⁵ / ₁₆ , From S/N BEO,001 Nut, ³ / ₈ Nut, ⁵ / ₁₆ Grooved Ball, ³ / ₈ Fulcrum, From S/N BEO,001 Smooth Ball, ³ / ₈
Push Rod	Both	192-1409	6.876 Length, - 60 U/S (192-1409U60) Available

307 C.I., (5.0L), 307, Gas, CARB, OHV, 16 Valve, ""Chevrolet Engine"" **OMC307 6**
 V8 307 CID **BORE - 98.425mm/3.80""**

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1812-3 SB2000-7 SB1562-9	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth, W/ 1.720 Valve Head Dia. 2.000 O.D., 1 ¹³ / ₁₆ I.D., ⁷ / ₃₂ Depth, W/ 1.940 Valve Head Dia. 1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	01193 01195	1.720 Head Diameter, +3 & +15 O/S Stem Available 1.940 Head Diameter, +3 & +15 O/S Stem Available

OMC / MARINE (Cont'd)

6 307 C.I., (5.0L), 307, Gas, CARB, OHV, 16 Valve, ""Chevrolet Engine"" OMC307
 (cont.) V8 307 CID BORE - 98.425mm/3.80""

PART		PART NO.	NOTES
Valve	Exh	01206S	1.500 Head Diameter,Stellite Face,+15 O/S Stem Available
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014 122-1074 122-1238	Positive Type,Tef/Rub Material,1-Ring Style Positive Type,Viton Material,Ring & Band Style Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 11/32 Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Both	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	160-1009 160-1144 160-1144HP 160-1407	1.910 Length,W/ Damper 2.048 Length,W/ Damper 2.023 Length,W/ Damper,Hi-Perf. 2.140 Length,W/ Damper,Optional Hi-Perf.
Lifter	Both	VL37	Hydraulic Type
Rocker Components	Both	180-1228 180-1239 180-1283 181-1011 181-1049 181-1061 184-1038 183-1017 183-1032	Rocker Arm Rocker Arm, Stamped, Long Slot Rocker Arm, Rail Type,Optional Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut,High Perf., W/ 1.5:1 Ratio Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional Nut, 3/8 Smooth Ball, 3/8 Grooved Ball, 3/8
Push Rod	Both	192-1331	7.793 Length

7 350 C.I., (5.7L), 350, Gas, CARB, OHV, 16 Valve, ""Chevrolet Engine"" OMC350
 V8 350 CID BORE - 101.6mm/4.00""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3 SB2000-7	1 13/16 O.D.,1 1/2 I.D.,7/32 Depth,W/ 1.720 Valve Head Dia. 2.000 O.D.,1 13/16 I.D.,7/32 Depth,W/ 1.940 Valve Head Dia.
	Exh	SB1562-1 SB1562-1N SB1562-9 SB1625-3N	1 1/16 O.D.,1 5/16 I.D.,7/32 Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1 1/16 O.D.,1 5/16 I.D.,7/32 Depth,Optional ""N"" Material 1 1/16 O.D.,1 5/16 I.D.,7/32 Depth,Also Available In Non-Magnetic (N) Material 1 5/8 O.D.,1 5/16 I.D.,1/4 Depth,For Vortec Heads W/ Factory Installed Seats
Valve	Int	01193 01195	1.720 Head Diameter,250,260,290 HP, +3 & +15 O/S Stem Available 1.940 Head Diameter,250,260 HP, +3 & +15 O/S Stem Available
	Exh	01762R 01192 01206S 01294S 01646S	1.940 Head Diameter,Vortec Heads W/O Seal Groove 1.500 Head Diameter,260 HP W/ M & M1 Suffixes, +3 & +15 O/S Stem Available 1.500 Head Diameter,Stellite Face,Except 260 HP W/ M & M1 Suffixes. Except 290 HP, +15 O/S Stem Available 1.500 Head Diameter,Stellite Face,290 HP, +15 O/S Stem Available 1.500 Head Diameter,Inconel, Stellite Face,W/ .3719 Stem Dia., Optional
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014 122-1037 122-1043 122-1048 122-1074	Positive Type,Tef/Rub Material,1-Ring Style Umbrella Type,Poly Material,Umbrella Style O-Ring Type,Nitrile Material,O-Ring Style Positive Type,Poly Material,2-Ring Style,W/ .341 Stem Dia.; Use W/ Factory Guide Boss Positive Type,Viton Material,Ring & Band Style

350 C.I., (5.7L), 350, Gas, CARB, OHV, 16 Valve, ""Chevrolet Engine""**OMC350 7**
BORE - 101.6mm/4.00"" (cont.)

PART		PART NO.	NOTES
Stem Seal	Both	122-1234	Umbrella Type,Nylon Material,Umbrella Style
		122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		122-1270	Umbrella Type,Viton Material,Umbrella Style
		322-1003	Positive Type,Teflon Material,All Teflon Style,With 0.500 Guide Boss
		322-1004	Positive Type,Teflon Material,All Teflon Style,With 0.531 Guide Boss
Guide	Int	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
	Exh	140-7999	0.3740 I.D.,2.200 Length,0.6205 O.D.,W/ Replaceable Exh. Guide, Use Caution When Removing Stepped O.D., NOTE: Drive Guide Out Toward Spring Seat
		140-9107	0.3740 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Exc. 1970-74 Sprint W/ .342 Valve Stem Dia.
		140-9946	0.3430 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Both	140-8180	0.3430 I.D.,2.275 Length,0.5577 O.D.,Aluminum Heads
Spring	Exh	160-1009	1.910 Length,W/ Damper,1973-80 Exh
	Both	160-1144	2.048 Length,W/ Damper,Exc. 1973-80 Exh
		160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Rotator	Exh	161-1012	
Lifter	Both	VL37	Hydraulic Type
Rocker Components	Both	180-1228	Rocker Arm
		180-1239	Rocker Arm, Stamped, Long Slot
		180-1283	Rocker Arm, Rail Type,Optional
		181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut,High Perf., W/ 1.5:1 Ratio
		181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional
		184-1038	Nut, 3/8
		183-1017	Smooth Ball, 3/8
183-1032	Grooved Ball, 3/8		
Push Rod	Both	192-1331	7.793 Length

351 C.I., (5.8L), 351, Gas, CARB, OHV, 16 Valve, ""Ford Engine""**OMC351 8**
BORE - 101.6mm/4.00""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D.,7/32 Depth,W/ 1.782 Valve Head Dia.
		SB1937-17	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D.,7/32 Depth,W/ 1.842 Valve Head Dia.
	Exh	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D.,7/32 Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.461 Valve Head Dia.
SB1625-1		1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D.,7/32 Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.541 Valve Head Dia.	
Valve	Int	01238	1.842 Head Diameter,+15 O/S Stem Available
		01328	1.782 Head Diameter,+3 & +15 O/S Stem Available
	Exh	01237	1.541 Head Diameter,+15 O/S Stem Available
		01327	1.461 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type,Fits 1968-76
Stem Seal	Both	122-1038	Umbrella Type,Poly Material,Umbrella Style
		122-1047	Positive Type,Poly Material,2-Ring Style
		122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems

OMC / MARINE (Cont'd)

8 351 C.I., (5.8L), 351, Gas, CARB, OHV, 16 Valve, ""Ford Engine"" OMC351
 (cont.) V8 351 CID BORE - 101.6mm/4.00""

PART		PART NO.	NOTES
Guide	Both	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	160-1024 160-1044	1.923 Length 2.040 Length
Lifter	Both	VL35	Hydraulic Type
Rocker Components	Both	180-1234 180-1238 181-1035 181-1041 184-1022 184-1035 184-1039 183-1020 183-1022 183-1030	Rocker Arm, Stamped Rocker Arm, Cast, Rail Type Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) 5/16 Bolt Rocker Arm Kit, Includes (1) Cast Rail Type R. Arm, (1) Grooved Ball, (1) 3/8 Nut, (1) 5/16 Nut +6 Oversize Stud, 5/16 Bolt W/Washer, 5/16 Nut, 5/16 Grooved Ball, 3/8,W/ Cast Rocker Arms Fulcrum Smooth Ball, 3/8,W/ Cast Rocker Arms
Push Rod	Both	190-1443 192-1399	8.182 Length,W/ Stamped Rocker Arms 8.152 Length,W/ Cast Iron Rocker Arms

PACCAR / HEAVY DUTY

Engine	Models	Line No.
6 Cylinder		
787 C.I., (12.9L), MX/MX10, Diesel, OHV, 24 Valve, ""TURBO""		1
787 C.I., (12.9L), MX13, Diesel, OHV, 24 Valve, ""TURBO""		2

1 787 C.I., (12.9L), MX/MX10, Diesel, OHV, 24 Valve, ""TURBO"" MX
L6 787 CID BORE - 130.0mm/5.118""

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1835E-2 SB1717E-1	1.835 O.D.,1.470T I.D.,0.2400 Depth 1.717 O.D.,1.355T I.D.,0.2400 Depth
Valve	Int Exh	13459 13460	1.732 Head Diameter 1.610 Head Diameter
Keeper	Exh	121-1145	1 RD Bead Type
Stem Seal	Both	122-1506	Positive Type,Viton Material,Metal Clad Style
Guide	Both	140-3211	0.3920 I.D.,2.850 Length,0.6313 O.D.
Spring	Int Exh	160-1695 160-1702 160-1696 160-1697	2.556 Length,W/Yellow Stripe,OEM# 1813104; NOTE: 1.191 O.D., Yellow Stripe 2.500 Length,W/Orange Stripe,OEM# 1850087; NOTE: 1.105 O.D., Orange Stripe 2.460 Length,Inner 2.779 Length,Outer
Injector Tubes and Components		240-1035R 240-1056	Aflas Material,O-Ring, Brown Stainless Steel Material

2 787 C.I., (12.9L), MX13, Diesel, OHV, 24 Valve, ""TURBO"" MX13
L6 787 CID BORE - 130.0mm/5.118""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1835E-2	1.835 O.D.,1.470T I.D.,0.2400 Depth

(Cont'd) **PACCAR / HEAVY DUTY**

787 C.I., (12.9L), MX13, Diesel, OHV, 24 Valve, ""TURBO""

MX13 **2**

L6 787 CID

BORE - 130.0mm/5.118"" (cont.)

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1717E-1	1.717 O.D.,1.355T I.D.,0.2400 Depth
Valve	Int	13459	1.732 Head Diameter
	Exh	13460	1.610 Head Diameter
Keeper	Both	121-1145	1 RD Bead Type
Stem Seal	Both	122-1506	Positive Type,Viton Material,Metal Clad Style
Guide	Both	140-3211	0.3920 I.D.,2.850 Length,0.6313 O.D.
Spring	Int	160-1695	2.556 Length,W/Yellow Stripe,OEM# 1813104; NOTE: 1.191 O.D., Yellow Stripe
		160-1702	2.500 Length,W/Orange Stripe,OEM# 1850087; NOTE: 1.105 O.D., Orange Stripe
	Exh	160-1696	2.460 Length,Inner
		160-1697	2.779 Length,Outer
Injector Tubes and Components		240-1035R	Aflas Material,O-Ring, Brown
		240-1056	Stainless Steel Material

PERKINS / HEAVY DUTY

Engine	Models	Line No.
3 Cylinder		
91 C.I., (1.5L), 403C.15, Diesel, OHV, 6 Valve, ""Shibaura 400C Series""		1
152 C.I., (2.5L), A3.152, Diesel, OHV, 6 Valve		7
152 C.I., (2.5L), D3.152, Diesel, OHV, 6 Valve, ""Direct Injected""		8
152 C.I., (2.5L), G3.152, Gas, OHV, 6 Valve		9
152 C.I., (2.5L), T3.152, Diesel, OHV, 6 Valve, ""TURBO""		10
152 C.I., (2.5L), 3.152.4, Diesel, OHV, 6 Valve		11
201 C.I., (3.3L), 1103-33T/1103-33TA, Diesel, OHV, 6 Valve, ""1100 Series TURBO""	1100 Series Turbo	15
201 C.I., (3.3L), 1103A/1103B/1103C, Diesel, OHV, ""1100 Series""	1100 Series Naturally Aspirated	16
4 Cylinder		
107 C.I., (1.8L), 4.107, Diesel, OHV, 8 Valve	Industrial	2
107 C.I., (1.8L), 4.108, Diesel, OHV, 8 Valve	Industrial	3
122 C.I., (2.0L), 104.19, Diesel, OHV, 8 Valve, ""100 Series""		4
135 C.I., (2.2L), 404C.22, Diesel, OHV, 8 Valve, ""Shibaura 400C Series""		5
135 C.I., (2.2L), 404C.22T, Diesel, OHV, 8 Valve, ""Shibaura 400C Series TURBO""		6
159 C.I., (2.6L), 704.26, Diesel, OHV, 8 Valve, ""700 Series""	700 Series	12
183 C.I., (3.0L), 704.30, Diesel, OHV, 8 Valve, ""700 Series""	700 Series	13
183 C.I., (3.0L), 704.30T, Diesel, OHV, 8 Valve, ""700 Series TURBO""	700 Series Turbo	14
203 C.I., (3.3L), 4.203/D4.203, Diesel, OHV, 8 Valve, ""Direct Injected""		17
203 C.I., (3.3L), 4.203.2, Diesel, OHV, 8 Valve		18
212 C.I., (3.5L), 4.212, Diesel, OHV, 8 Valve		19

PERKINS / HEAVY DUTY (Cont'd)

Engine	Models	Line No.
4 Cylinder		
236 C.I., (3.9L), 4.236, Diesel, OHV, 8 Valve		20
236 C.I., (3.9L), A4.236, Diesel, OHV, 8 Valve		21
236 C.I., (3.9L), C4.236, Diesel, OHV, 8 Valve		22
236 C.I., (3.9L), G4.236, Gas, OHV, 8 Valve		23
236 C.I., (3.9L), T4.236, Diesel, OHV, 8 Valve, ""TURBO""		24
243 C.I., (4.0L), 1004.40, Diesel, OHV, 8 Valve		25
243 C.I., (4.0L), 4.401/T4.401, Diesel, OHV, 8 Valve, ""N/A & TURBO""		26
243 C.I., (4.0L), 1004.40T, Diesel, OHV, 8 Valve, ""TURBO""		27
248 C.I., (4.1L), 4.248, Diesel, OHV, 8 Valve		28
248 C.I., (4.1L), 4.248.2, Diesel, OHV, 8 Valve		29
258 C.I., (4.2L), 1004.42/4.421, Diesel, OHV, 8 Valve		30
268 C.I., (4.4L), 1104C-44/1104C-E44, Diesel, OHV, 8 Valve, ""1100C Series""	1100C Series	31
268 C.I., (4.4L), 1104C-44T/1104C-E44T, Diesel, OHV, 8 Valve ""1100C Series TURBO""	1100C Series	32
268 C.I., (4.4L), 1104D-44, Diesel, OHV, 8 Valve, ""1100D Series""	1100D Series	33
268 C.I., (4.4L), 1104D-44T/1104D-44TA, Diesel, OHV, 8 Valve, ""1100D Series TURBO""	1100D Series	34
318 C.I., (5.2L), 4.318/A4.318, Diesel, OHV, 8 Valve	Industrial Engines	36
6 Cylinder		
305 C.I., (5.0L), 6.305, Diesel, OHV, 12 Valve		35
354 C.I., (5.8L), A6.354, Diesel, OHV, 12 Valve		37
354 C.I., (5.8L), ATC6.354, Diesel, OHV, 12 Valve, ""TURBO""		38
354 C.I., (5.8L), D6.354, 6.354, Diesel, OHV, 12 Valve		39
354 C.I., (5.8L), T6.354, Diesel, OHV, 12 Valve, ""TURBO""		40
354 C.I., (5.8L), T6.354.4, Diesel, OHV, 12 Valve, ""TURBO""		41
354 C.I., (5.8L), 6.354.1, Diesel, OHV, 12 Valve		42
354 C.I., (5.8L), 6.354.2, Diesel, OHV, 12 Valve		43
365 C.I., (6.0L), T6.601, Diesel, OHV, 12 Valve, ""N/A & TURBO""		44
365 C.I., (6.0L), 1006.60, Diesel, OHV, 12 Valve		45
365 C.I., (6.0L), 1006.60T, Diesel, OHV, 12 Valve, ""TURBO""		46
366 C.I., (6.0L), 1106C-E60TA, Diesel, OHV, 12 Valve, ""1100 Series""	1100 Series	47
372 C.I., (6.1L), 6.372, Diesel, OHV, 12 Valve		48
372 C.I., (6.1L), 6.372.4, Diesel, OHV, 12 Valve		49

1 91 C.I., (1.5L), 403C.15, Diesel, OHV, 6 Valve, ""Shibaura 400C Series"" **403C.15**
L3 91 CID **BORE - 84.01mm/3.307""**

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1558E-1PM	1.558 O.D., 1.320 I.D., 0.2170 Depth, OEM # 110136300
	Exh SB1400E-1PM	1.400 O.D., 1.170 I.D., 0.2170 Depth, OEM # U10136460
Valve	Int 13326	1.457 Head Diameter, OEM # 120166350, 120166380; NOTE: Late

(Cont'd) PERKINS / HEAVY DUTY

91 C.I., (1.5L), 403C.15, Diesel, OHV, 6 Valve, ""Shibaura 400C Series"" **403C.15 1**
L3 91 CID **BORE - 84.01mm/3.307"" (cont.)**

PART		PART NO.	NOTES
Valve	Exh	13327	1.299 Head Diameter,OEM # 120176360, 120176380; NOTE: Late
Keeper	Both	121-1146	1 RD Bead Type,OEM # 120226070
Stem Seal	Int	122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # 120406070
	Exh	122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # 120406050, U20406140
Guide	Both	140-3202	0.2756 I.D.,1.460 Length,0.5020 O.D.

107 C.I., (1.8L), 4.107, Diesel, OHV, 8 Valve **4.107 2**
L4 107 CID **BORE - 79.4mm/3.126""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-7	1 ⁹ / ₁₆ O.D.,1 ¹ / ₄ I.D., ¹ / ₄ Depth,Oversized O.D., NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	SB1312-4	1 ⁵ / ₁₆ O.D.,1.000 I.D., ¹ / ₄ Depth,Oversized O.D., NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	13099	1.412 Head Diameter,OEM # 910060, 910064
	Exh	13100	1.190 Head Diameter,OEM # 910061
Keeper	Both	121-1051	1 RD Bead Type,OEM # 230001
Stem Seal	Both	122-1412	Umbrella Type,Viton Material,Umbrella Style,OEM # 33817403
Guide	Int	140-3099	0.3148 I.D.,2.127 Length,0.5025 O.D.,OEM # 3313E001
	Exh	140-1956	0.3150 I.D.,2.438 Length,0.5025 O.D.,OEM # 33261723

107 C.I., (1.8L), 4.108, Diesel, OHV, 8 Valve **4.108 3**
L4 107 CID **BORE - 79.4mm/3.126""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-7	1 ⁹ / ₁₆ O.D.,1 ¹ / ₄ I.D., ¹ / ₄ Depth,Oversized O.D., NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	SB1312-4	1 ⁵ / ₁₆ O.D.,1.000 I.D., ¹ / ₄ Depth,Oversized O.D., NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	13099	1.412 Head Diameter,OEM # 910060, 910064
	Exh	13100	1.190 Head Diameter,OEM # 910061
Keeper	Both	121-1051	1 RD Bead Type,OEM # 230001
Stem Seal	Both	122-1412	Umbrella Type,Viton Material,Umbrella Style,OEM # 33817403
Guide	Int	140-3099	0.3148 I.D.,2.127 Length,0.5025 O.D.,OEM # 3313E001
	Exh	140-1956	0.3150 I.D.,2.438 Length,0.5025 O.D.,OEM # 33261723

122 C.I., (2.0L), 104.19, Diesel, OHV, 8 Valve, ""100 Series"" **104.19 4**
L4 122 CID **BORE - 84.01mm/3.307""**

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1400E-1PM	1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # U10136460; NOTE: Check S/N
Keeper	Both	121-1146	1 RD Bead Type,OEM # 120226070
Stem Seal	Int	122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # 120406070
	Exh	122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # 120406050
Spring	Both	160-1638	1.382 Length,OEM # 198216700

135 C.I., (2.2L), 404C.22, Diesel, OHV, 8 Valve, ""Shibaura 400C Series"" **404C.22 5**
L4 135 CID **BORE - 84.01mm/3.307""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1558E-1PM	1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # 110136300
	Exh	SB1400E-1PM	1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # U10136460
Valve	Int	13326	1.457 Head Diameter,OEM # 120166350, 120166380; NOTE: Late

PERKINS / HEAVY DUTY (Cont'd)

5 135 C.I., (2.2L), 404C.22, Diesel, OHV, 8 Valve, ""Shibaura 400C Series"" 404C.22
(cont.) L4 135 CID BORE - 84.01mm/3.307""

PART		PART NO.	NOTES
Valve	Exh	13327	1.299 Head Diameter,OEM # 120176360, 120176380; NOTE: Late
Keeper	Both	121-1146	1 RD Bead Type,OEM # 120226070
Stem Seal	Int	122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # 120406070
	Exh	122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # 120406050, U20406140
Guide	Both	140-3202	0.2756 I.D.,1.460 Length,0.5020 O.D.
Spring	Both	160-1638	1.382 Length,OEM # 198216700

6 135 C.I., (2.2L), 404C.22T, Diesel, OHV, 8 Valve, "" Shibaura 400C Series TURBO"" 404C.22T
L4 135 CID BORE - 84.01mm/3.307""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1558E-1PM	1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # 110136300
	Exh	SB1400E-1PM	1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # U10136460
Valve	Int	13326	1.457 Head Diameter,OEM # 120166350, 120166380; NOTE: Late
	Exh	13327	1.299 Head Diameter,OEM # 120176360, 120176380; NOTE: Late
Keeper	Both	121-1146	1 RD Bead Type,OEM # 120226070
Stem Seal	Int	122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # 120406070
	Exh	122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # 120406050, U20406140
Guide	Both	140-3202	0.2756 I.D.,1.460 Length,0.5020 O.D.
Spring	Both	160-1638	1.382 Length,OEM # 198216700

7 152 C.I., (2.5L), A3.152, Diesel, OHV, 6 Valve A3.152
L3 152 CID BORE - 91.44mm/3.60""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D.,1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1880E-1	1.880 O.D.,1 ¹³ / ₃₂ I.D., ⁷ / ₃₂ Depth,OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1437-3N	1 ⁷ / ₁₆ O.D.,1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-1	1.681 O.D.,1-13/64 I.D., ⁵ / ₁₆ Depth,OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	00874	1.534 Head Diameter,OEM # 31431281 & 31431261
	Exh	00873	1.315 Head Diameter,OEM # 31431271
Keeper	Both	121-1051	1 RD Bead Type,OEM # 230001
Stem Seal	Both	122-1212	Positive Type,Viton Material, Ring & Band Style, Machine OE Guide To 0.439 O.D. To Accept Seal
		322-1002	Positive Type,Teflon Material,All Teflon Style,From S/N C10001
Guide	Both	140-1956	0.3150 I.D.,2.438 Length,0.5025 O.D.,OEM # 33261723
Spring	Both	160-1543	1.836 Length,OEM # 780006; NOTE: For Single Spring Setup, Also Outer Spring For Dual Spring Setup

8 152 C.I., (2.5L), D3.152, Diesel, OHV, 6 Valve, ""Direct Injected"" D3.152
L3 152 CID BORE - 91.44mm/3.60""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D.,1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,Universal Size Seat For Heads W/O Factory Installed Seat

(Cont'd) PERKINS / HEAVY DUTY**152 C.I., (2.5L), D3.152, Diesel, OHV, 6 Valve, ""Direct Injected""****D3.152 8**

L3 152 CID

BORE - 91.44mm/3.60"" (cont.)

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1880E-1	1.880 O.D., 1 ¹³ / ₃₂ I.D., ⁷ / ₃₂ Depth, OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1437-3N	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-1	1.681 O.D., 1-13/64 I.D., ⁵ / ₁₆ Depth, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	00874	1.534 Head Diameter, OEM # 31431261, 31431281; NOTE: 45 Degree Valve
		13103	1.535 Head Diameter, OEM # 31431681, 31431981; NOTE: 35 Degree Valve
	Exh	00873	1.315 Head Diameter, OEM # 31431271, 31431591; NOTE: 45 Degree Valve
		13112	1.315 Head Diameter, OEM # 31431011, 31431991, From S/N UA391045DSL; NOTE: 35 Degree Valve
Keeper	Both	121-1051	1 RD Bead Type, OEM # 230001
Stem Seal	Both	122-1212	Positive Type, Viton Material, Ring & Band Style, Machine OE Guide To 0.439 O.D. To Accept Seal
		322-1002	Positive Type, Teflon Material, All Teflon Style, From S/N C10001
Guide	Both	140-1956	0.3150 I.D., 2.438 Length, 0.5025 O.D., OEM # 33261723
Spring	Both	160-1543	1.836 Length, OEM # 780006; NOTE: For Single Spring Setup, Also Outer Spring For Dual Spring Setup

152 C.I., (2.5L), G3.152, Gas, OHV, 6 Valve**G3.152 9**

L3 152 CID

BORE - 91.478mm/3.601""

PART		PART NO.	NOTES
Valve	Int	13101	1.534 Head Diameter, OEM # 31431741; NOTE: 45 Degree Valve
		13103	1.535 Head Diameter, OEM # 31431681, 31431981; NOTE: 35 Degree Valve
	Exh	00873	1.315 Head Diameter, OEM # 31431591, 910002, 737640M1; NOTE: 4.499 Length, 45 Degree Valve
		13102S	1.318 Head Diameter, Stellite Face, OEM # 31431731; NOTE: 4.665 Length, 45 Degree Valve
	13112	1.315 Head Diameter, OEM # 31431011, 31431991; NOTE: 35 Degree Valve	
Keeper	Both	121-1051	1 RD Bead Type, OEM # 230001
Guide	Both	140-3099	0.3148 I.D., 2.127 Length, 0.5025 O.D., OEM # 3313E001
Spring	Both	160-1543	1.836 Length, OEM # 780006; NOTE: For Single Spring Setup, Also Outer Spring For Dual Spring Setup

152 C.I., (2.5L), T3.152, Diesel, OHV, 6 Valve, ""TURBO""**T3.152 10**

L3 152 CID

BORE - 91.478mm/3.601""

PART		PART NO.	NOTES
Valve	Int	13101	1.534 Head Diameter, OEM # 31431741; NOTE: 45 Degree Valve
		13103	1.535 Head Diameter, OEM # 31431681, 31431981; NOTE: 35 Degree Valve
	Exh	00873	1.315 Head Diameter, OEM # 31431591, 910002, 737640M1; NOTE: 4.499 Length, 45 Degree Valve
		13102S	1.318 Head Diameter, Stellite Face, OEM # 31431731; NOTE: 4.665 Length, 45 Degree Valve
	13112	1.315 Head Diameter, OEM # 31431011, 31431991; NOTE: 35 Degree Valve	
Keeper	Both	121-1051	1 RD Bead Type, OEM # 230001
Guide	Int	140-3100	0.3148 I.D., 2.227 Length, 0.5025 O.D., OEM # 33261727
	Exh	140-1956	0.3150 I.D., 2.438 Length, 0.5025 O.D., OEM # 33261723

PERKINS / HEAVY DUTY (Cont'd)

10 152 C.I., (2.5L), T3.152, Diesel, OHV, 6 Valve, ""TURBO"" T3.152
 (cont.) L3 152 CID BORE - 91.478mm/3.601""

PART		PART NO.	NOTES
Spring	Both	160-1543	1.836 Length,OEM # 780006; NOTE: For Single Spring Setup, Also Outer Spring For Dual Spring Setup

11 152 C.I., (2.5L), 3.152.4, Diesel, OHV, 6 Valve 3.152.4
L3 152 CID BORE - 91.478mm/3.601""

PART		PART NO.	NOTES
Valve	Int	13101	1.534 Head Diameter,Intake; OEM # 31431741; NOTE: 45 Degree Valve
		13103	1.535 Head Diameter,OEM # 31431681, 31431981; NOTE: 35 Degree Valve
	Exh	00873	1.315 Head Diameter,OEM # 31431591, 910002, 737640M1; NOTE: 4.499 Length, 45 Degree Valve
		13102S	1.318 Head Diameter,Stellite Face,OEM # 31431731; NOTE: 4.665 Length, 45 Degree Valve
		13112	1.315 Head Diameter,OEM # 31431011, 31431991; NOTE: 35 Degree Valve
Keeper	Both	121-1051	1 RD Bead Type,OEM # 230001
Guide	Int	140-3100	0.3148 I.D.,2.227 Length,0.5025 O.D.,OEM # 33261727
	Exh	140-1956	0.3150 I.D.,2.438 Length,0.5025 O.D.,OEM # 33261723
Spring	Both	160-1543	1.836 Length,OEM # 780006; NOTE: For Single Spring Setup, Also Outer Spring For Dual Spring Setup

12 159 C.I., (2.6L), 704.26, Diesel, OHV, 8 Valve, ""700 Series"" 704.26
L4 159 CID BORE - 91.0125mm/3.583""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1782E-2	1.782 O.D.,1.535T I.D.,0.2450 Depth,OEM # 3314A041
	Exh	SB1518E-1	1.518 O.D.,1.245T I.D.,0.2450 Depth,OEM # 3314A031
Valve	Int	13141	1.735 Head Diameter,OEM # 3142H011
	Exh	13142	1.465 Head Diameter,OEM # 3142A101
Keeper	Both	121-1093	3 RD Bead Type,OEM # 3142W003
Stem Seal	Both	122-1475	Positive Type,Viton Material,All Rubber Style,OEM # 2418M508
Guide	Both	140-3105	0.2752 I.D.,1.790 Length,0.4740 O.D.,OEM # 3318A702
Spring	Both	160-1502	1.500 Length,OEM # 3174P408

13 183 C.I., (3.0L), 704.30, Diesel, OHV, 8 Valve, ""700 Series"" 704.3
L4 183 CID BORE - 97.0mm/3.819""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1782E-2	1.782 O.D.,1.535T I.D.,0.2450 Depth,OEM # 3314A041
	Exh	SB1518E-1	1.518 O.D.,1.245T I.D.,0.2450 Depth,OEM # 3314A031
Valve	Int	13141	1.735 Head Diameter,OEM # 3142H011
	Exh	13142	1.465 Head Diameter,OEM # 3142A101
Keeper	Both	121-1093	3 RD Bead Type,OEM # 3142W003
Stem Seal	Both	122-1475	Positive Type,Viton Material,All Rubber Style,OEM # 2418M508
Guide	Both	140-3105	0.2752 I.D.,1.790 Length,0.4740 O.D.,OEM # 3318A702
Spring	Both	160-1502	1.500 Length,OEM # 3174P408

14 183 C.I., (3.0L), 704.30T, Diesel, OHV, 8 Valve, ""700 Series TURBO"" 704.30T
L4 183 CID BORE - 97.0mm/3.819""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1782E-2	1.782 O.D.,1.535T I.D.,0.2450 Depth,OEM # 3314A041
	Exh	SB1518E-1	1.518 O.D.,1.245T I.D.,0.2450 Depth,OEM # 3314A031
Valve	Int	13143	1.735 Head Diameter,OEM # 3142H051

(Cont'd) PERKINS / HEAVY DUTY

183 C.I., (3.0L), 704.30T, Diesel, OHV, 8 Valve, ""700 Series TURBO"" **704.30T 14**
 L4 183 CID BORE - 97.0mm/3.819"" (cont.)

PART		PART NO.	NOTES
Valve	Exh	13142	1.465 Head Diameter,OEM # 3142A101
Keeper	Both	121-1093	3 RD Bead Type,OEM # 3142W003
Stem Seal	Both	122-1475	Positive Type,Viton Material,All Rubber Style,OEM # 2418M508
Guide	Both	140-3105	0.2752 I.D.,1.790 Length,0.4740 O.D.,OEM # 3318A702
Spring	Both	160-1502	1.500 Length,OEM # 3174P408

201 C.I., (3.3L), 1103-33T/1103-33TA, Diesel, OHV, 6 Valve, ""1100 Series TURBO"" **1103-33T 15**
 L3 201 CID BORE - 105mm/4.133""

PART		PART NO.	NOTES
Valve	Int	13137	1.823 Head Diameter,OEM # 3142H071
	Exh	13138	1.634 Head Diameter,OEM # 3142A151
Keeper	Both	121-1118	1 RD Bead Type,OEM # 3142W004
Guide	Both	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 3313A012
Spring	Both	160-1569	1.729 Length,Conical,OEM # 3174A016; NOTE: Alternative Aftermarket Design
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

201 C.I., (3.3L), 1103A/1103B/1103C, Diesel, OHV, ""1100 Series"" **1103A-33 16**
 L3 201 CID BORE - 105mm/4.133""

PART		PART NO.	NOTES
Valve	Int	13137	1.823 Head Diameter,OEM # 3142H071
	Exh	13138	1.634 Head Diameter,OEM # 3142A151
Keeper	Both	121-1118	1 RD Bead Type,OEM # 3142W004
Guide	Both	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 3313A012
Spring	Both	160-1569	1.729 Length,Conical,OEM # 3174A016; NOTE: Alternative Aftermarket Design
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

203 C.I., (3.3L), 4.203/D4.203, Diesel, OHV, 8 Valve, ""Direct Injected"" **4.203 17**
 L4 203 CID BORE - 91.44mm/3.60""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1880E-1	1.880 O.D.,1 ¹³ / ₃₂ I.D., ⁷ / ₃₂ Depth,OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1437-3N	1 ⁷ / ₁₆ O.D.,1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-1	1.681 O.D.,1-13/64 I.D., ⁵ / ₁₆ Depth,OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	00874	1.534 Head Diameter,OEM # 31431281 & 31431261; NOTE: 45 Degree Valve
		13103	1.535 Head Diameter,OEM # 31431681, 31431981; NOTE: 35 Degree Valve
	Exh	00873	1.315 Head Diameter,OEM # 31431591, 910002, To S/N 2820092; NOTE: 45 Degree Valve
		13112	1.315 Head Diameter,OEM # 31431011, 31431991, To S/N U589379L; NOTE: 35 Degree Valve
Keeper	Both	121-1051	1 RD Bead Type,OEM # 2230001

PERKINS / HEAVY DUTY (Cont'd)

17 203 C.I., (3.3L), 4.203/D4.203, Diesel, OHV, 8 Valve, ""Direct Injected"" 4.203
 (cont.) L4 203 CID BORE - 91.44mm/3.60""

PART		PART NO.	NOTES
Stem Seal	Both	122-1212	Positive Type,Viton Material,Ring & Band Style,Machine OE Guide To 0.439 O.D. To Accept Seal
		322-1002	Positive Type,Teflon Material,All Teflon Style,From S/N C10001
Guide	Int	140-3100	0.3148 I.D.,2.227 Length,0.5025 O.D.,OEM # 33261727
	Exh	140-1956	0.3150 I.D.,2.438 Length,0.5025 O.D.,OEM # 33261723
Spring	Both	160-1543	1.836 Length,Outer, OEM # 780006

18 203 C.I., (3.3L), 4.203.2, Diesel, OHV, 8 Valve 4.203.2
 L4 203 CID BORE - 91.44mm/3.60""

PART		PART NO.	NOTES
Valve	Int	13101	1.534 Head Diameter,OEM # 31431741; NOTE: 45 Degree Valve
		13103	1.535 Head Diameter,OEM # 31431681, 31431981; NOTE: 35 Degree Valve
	Exh	00873	1.315 Head Diameter,OEM # 31431591, 910002, 737640M1; NOTE: 4.499 Length, 45 Degree Valve
		13102S	1.318 Head Diameter,Stellite Face,OEM # 31431731; NOTE: 4.665 Length, 45 Degree Valve
		13112	1.315 Head Diameter,OEM # 31431011, 31431991; NOTE: 35 Degree Valve
Keeper	Both	121-1051	1 RD Bead Type,OEM # 230001
Guide	Int	140-3100	0.3148 I.D.,2.227 Length,0.5025 O.D.,OEM # 33261727
	Exh	140-1956	0.3150 I.D.,2.438 Length,0.5025 O.D.,OEM # 33261723
Spring	Both	160-1543	1.836 Length,Outer, OEM # 780006

19 212 C.I., (3.5L), 4.212, Diesel, OHV, 8 Valve D4.212
 L4 212 CID BORE - 98.425mm/3.875""

PART		PART NO.	NOTES
Valve	Int	00883	1.744 Head Diameter,OEM # 31431641
	Exh	00882A	1.440 Head Diameter,OEM # 3142A052, 31431104, 31431109, 31431881
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM# 3343J002
Spring	Both	160-1291	2.578 Length,Outer, OEM # 31745121
		160-1301	2.000 Length,Inner, OEM # 31744131
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

20 236 C.I., (3.9L), 4.236, Diesel, OHV, 8 Valve 4.236
 L4 236 CID BORE - 98.50mm/3.878""

PART		PART NO.	NOTES
Valve	Int	00883	1.744 Head Diameter,OEM # 31431641
		01783	1.741 Head Diameter,OEM # 31431315
	Exh	00882A	1.440 Head Diameter,OEM # 3142A052, 31431104, 31431109, 31431881
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002
Spring	Both	160-1291	2.578 Length,Outer, OEM # 31745121
		160-1301	2.000 Length,Inner, OEM # 31744131
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

(Cont'd) PERKINS / HEAVY DUTY**236 C.I., (3.9L), A4.236, Diesel, OHV, 8 Valve****A4.236 21**

L4 236 CID

BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1 $\frac{7}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth, Universal Size Seat For Heads W/O Factory Installed Seat
		SB2020E-1	2.020 O.D., 1.589 I.D., 0.2825 Depth, OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1562-6N	1 $\frac{9}{16}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth, Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-3	1.681 O.D., 1.251ST I.D., $\frac{3}{8}$ Depth, NOTE: Stepped I.D., OEM# 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat
		SB1690E-1	1.690 O.D., 1.251ST I.D., $\frac{3}{8}$ Depth, NOTE: Stepped I.D., OEM# 33152154, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	00883	1.744 Head Diameter, OEM # 31431641
		01887	1.772 Head Diameter, OEM # 3142L071
	Exh	00882A	1.440 Head Diameter, OEM # 3142A052, 31431104, 31431109, 31431881
		01784	1.473 Head Diameter, OEM # 3142A051
Keeper	Both	121-1018	1 RD Bead Type, OEM # 33173108
Stem Seal	Both	122-1015	Positive Type, Tef/Rub Material, 1-Ring Style, Machine Guide To 0.562 O.D.
		122-1398	Positive Type, Poly Material, All Rubber Style, OEM # 33817117
Guide	Int	140-1976	0.3755 I.D., 2.281 Length, 0.6265 O.D., OEM # 33261732
	Exh	140-1977	0.3755 I.D., 2.406 Length, 0.6265 O.D., OEM # 33261752
Spring	Both	160-1291	2.578 Length, Single Spring To S/N 236UA-19816, Outer From S/N 236UA-19817
		160-1301	2.000 Length, Inner, From S/N 236UA-19817

236 C.I., (3.9L), C4.236, Diesel, OHV, 8 Valve**C4.236 22**

L4 236 CID

BORE - 98.476mm.3.877"

PART		PART NO.	NOTES
Valve	Int	01783	1.741 Head Diameter, OEM # 31431315
	Exh	00882A	1.440 Head Diameter, OEM # 3142A052, 31431104, 31431109, 31431881
Keeper	Both	121-1018	1 RD Bead Type, OEM # 33173108
Stem Seal	Both	122-1398	Positive Type, Poly Material, All Rubber Style, OEM # 33817117
Guide	Int	140-3063	0.3740 I.D., 2.281 Length, 0.6264 O.D., OEM # 3343F002
	Exh	140-3064	0.3740 I.D., 2.407 Length, 0.6264 O.D., OEM # 3343J002
Spring	Both	160-1291	2.578 Length, Outer, OEM # 31745121
		160-1301	2.000 Length, Inner, OEM # 31744131
Lifter	Both	VL549	Mechanical Type, OEM # 31434163

236 C.I., (3.9L), G4.236, Gas, OHV, 8 Valve**G4.236 23**

L4 236 CID

BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1 $\frac{7}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth, Universal Size Seat For Heads W/O Factory Installed Seat
		SB2020E-1	2.020 O.D., 1.589 I.D., 0.2825 Depth, OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1562-6N	1 $\frac{9}{16}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth, Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-3	1.681 O.D., 1.251ST I.D., $\frac{3}{8}$ Depth, NOTE: Stepped I.D., OEM# 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat
		SB1690E-1	1.690 O.D., 1.251ST I.D., $\frac{3}{8}$ Depth, NOTE: Stepped I.D., OEM# 33152154, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	01783	1.741 Head Diameter, OEM # 31431871
	Exh	01798	1.441 Head Diameter, OEM # 31431701
Keeper	Both	121-1018	1 RD Bead Type, OEM # 33173108

PERKINS / HEAVY DUTY (Cont'd)

23 236 C.I., (3.9L), G4.236, Gas, OHV, 8 Valve G4.236
 (cont.) L4 236 CID BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002
Spring	Both	160-1291	2.578 Length,NOTE: For Single Spring Setup, Also Outer Spring For Dual Spring Setup
		160-1301	2.000 Length,Inner, OEM # 31744131
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

24 236 C.I., (3.9L), T4.236, Diesel, OHV, 8 Valve, ""TURBO"" T4.236
L4 236 CID BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve	Int	01783	1.741 Head Diameter,OEM # 31431315; NOTE: 45 Degree Valve
		13135	1.740 Head Diameter,OEM # 3142H002; NOTE: 30 Degree Valve
	Exh	00882A	1.440 Head Diameter,OEM # 3142A052, 31431104, 31431109, 31431881
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002
Spring	Both	160-1291	2.578 Length,Outer, OEM # 31745121
		160-1301	2.000 Length,Inner, OEM # 31744131
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

25 243 C.I., (4.0L), 1004.40, Diesel, OHV, 8 Valve 1004.4
L4 243 CID BORE - 100mm/3.937"

PART		PART NO.	NOTES
Valve	Int	01887	1.772 Head Diameter,OEM # 3142L051
	Exh	01784	1.473 Head Diameter,OEM # 3142A051
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002 & 3343F041
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002 & 3343J021, W/ Counterbore
Spring	Both	160-1496	1.672 Length,Inner, OEM # 31744133
		160-1497	1.809 Length,Outer, OEM # 31745122
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

26 243 C.I., (4.0L), 4.401/T4.401, Diesel, OHV, 8 Valve, ""N/A & TURBO"" 1004.40/40T
L4 243 CID BORE - 100mm/3.937"

PART		PART NO.	NOTES
Valve	Int	05001	1.693 Head Diameter,OEM # 3142D041, 45 Degree
		13136	1.693 Head Diameter,OEM # 3142L081, 30 Degree
	Exh	05002S	1.620 Head Diameter,Stellite Face,OEM # 3142D031, 45 Degree
		13219	1.616 Head Diameter,OEM # 3142D051, 30 Degree
Keeper	Both	121-1118	1 RD Bead Type,OEM # 3142W004
Stem Seal	Int	122-1395	Positive Type,Viton Material,All Rubber Style,OEM # 2418M506, 2418M507
	Exh	122-1397	Positive Type,Viton Material,All Rubber Style,OEM # 2418M505
Guide	Int	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 3313A012
	Exh	140-3060	0.3547 I.D.,2.018 Length,0.5527 O.D.,OEM # 3318A705
Spring	Both	160-1498	1.847 Length,OEM # 3174P409
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

(Cont'd) PERKINS / HEAVY DUTY**243 C.I., (4.0L), 1004.40T, Diesel, OHV, 8 Valve, ""TURBO""****1004.40T 27**

L4 243 CID

BORE - 100mm/3.937""

PART		PART NO.	NOTES
Valve	Int	01887	1.772 Head Diameter,OEM # 3142L071, 45 Degree, NOTE: To ESN U608300W (1992)
		05000	1.772 Head Diameter,OEM # 3142L072, 30 Degree, NOTE: From ESN U608301W (1992)
	Exh	01784	1.473 Head Diameter,OEM # 3142A051
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002 & 3343F041
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002 & 3343J021, W/ Counterbore
Spring	Both	160-1496	1.672 Length,Inner, OEM # 31744133
		160-1497	1.809 Length,Outer, OEM # 31745122
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

248 C.I., (4.1L), 4.248, Diesel, OHV, 8 Valve**4.248 28**

L4 248 CID

BORE - 98.425mm/3.875""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1 $\frac{7}{8}$ O.D.,1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB2020E-1	2.020 O.D.,1.589 I.D.,0.2825 Depth,OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1562-6N	1 $\frac{9}{16}$ O.D.,1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-3	1.681 O.D.,1.251ST I.D., $\frac{3}{8}$ Depth,NOTE: Stepped I.D.,OEM# 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat
		SB1690E-1	1.690 O.D.,1.251ST I.D., $\frac{3}{8}$ Depth,NOTE: Stepped I.D.,OEM# 33152154, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	00883	1.744 Head Diameter,OEM # 31431641
		01783	1.741 Head Diameter,OEM # 31431315
	Exh	00882A	1.440 Head Diameter,OEM # 3142A052, 31431104, 31431109, 31431881
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002
Spring	Both	160-1291	2.578 Length,Outer, OEM # 31745121
		160-1301	2.000 Length,Inner, OEM # 31744131
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

248 C.I., (4.1L), 4.248.2, Diesel, OHV, 8 Valve**4.248.2 29**

L4 248 CID

BORE - 98.425mm/3.875""

PART		PART NO.	NOTES
Valve	Int	01783	1.741 Head Diameter,OEM # 31431315
	Exh	00882A	1.440 Head Diameter,OEM # 3142A052, 31431104, 31431109, 31431881
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002
Spring	Both	160-1291	2.578 Length,Outer, OEM # 31745121
		160-1301	2.000 Length,Inner, OEM # 31744131
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

PERKINS / HEAVY DUTY (Cont'd)

30 258 C.I., (4.2L), 1004.42/4.421, Diesel, OHV, 8 Valve

1004.42

L4 258 CID

BORE - 103mm/4.055"

PART		PART NO.	NOTES
Valve	Int	05003	1.772 Head Diameter,OEM # 3142H041
	Exh	05004	1.654 Head Diameter,OEM # 3142D061
Keeper	Both	121-1118	1 RD Bead Type,OEM # 3142W004
Stem Seal	Int	122-1395	Positive Type,Viton Material,All Rubber Style,OEM # 2418M506, 2418M507
	Exh	122-1397	Positive Type,Viton Material,All Rubber Style,OEM # 2418M505
Guide	Int	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 3313A012
	Exh	140-3060	0.3547 I.D.,2.018 Length,0.5527 O.D.,OEM # 3318A705
Spring	Both	160-1499	1.674 Length,OEM # 3174P412
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

31 268 C.I., (4.4L), 1104C-44/1104C-E44, Diesel, OHV, 8 Valve, ""1100C Series"" 1104C-E44

L4 268 CID

BORE - 105mm/4.133"

PART		PART NO.	NOTES
Valve	Int	13137	1.823 Head Diameter,OEM # 3142H071
	Exh	13138	1.634 Head Diameter,OEM # 3142A151
Keeper	Both	121-1118	1 RD Bead Type,OEM # 3142W004
Stem Seal	Int	122-1434	Positive Type,Viton Material,Top Hat Style,OEM # 2418M519; NOTE: Green
	Exh	122-1435	Positive Type,Viton Material,Top Hat Style,OEM # 2418M517; NOTE: Brown
Guide	Both	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 3313A012
Spring	Both	160-1569	1.729 Length,Conical,OEM # 3174A016; NOTE: Alternative Aftermarket Design
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

32 268 C.I., (4.4L), 1104C-44T/1104C-E44T, Diesel, OHV, 8 Valve ""1100C Series TURBO""

1104C-E44T

L4 268 CID

BORE - 105mm/4.133"

PART		PART NO.	NOTES
Valve	Int	13137	1.823 Head Diameter,OEM # 3142H071
	Exh	13138	1.634 Head Diameter,OEM # 3142A151
Keeper	Both	121-1118	1 RD Bead Type,OEM # 3142W004
Stem Seal	Int	122-1434	Positive Type,Viton Material,Top Hat Style,OEM # 2418M519; NOTE: Green
	Exh	122-1435	Positive Type,Viton Material,Top Hat Style,OEM # 2418M517; NOTE: Brown
Guide	Both	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 3313A012
Spring	Both	160-1569	1.729 Length,Conical,OEM # 3174A016; NOTE: Alternative Aftermarket Design
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

33 268 C.I., (4.4L), 1104D-44, Diesel, OHV, 8 Valve, ""1100D Series""

1104D-44

L4 268 CID

BORE - 105mm/4.133"

PART		PART NO.	NOTES
Valve	Int	13363	1.831 Head Diameter,OEM # 3142H101
	Exh	13364	1.638 Head Diameter,OEM # 3142A171
Keeper	Both	121-1133	3 RD Bead Type,OEM # 2714A002
Stem Seal	Int	122-1434	Positive Type,Viton Material,Top Hat Style,OEM # 2418M519; NOTE: Green

(Cont'd) PERKINS / HEAVY DUTY**268 C.I., (4.4L), 1104D-44, Diesel, OHV, 8 Valve, ""1100D Series""****1104D-44 33**

L4 268 CID

BORE - 105mm/4.133"" (cont.)

PART		PART NO.	NOTES
Stem Seal	Exh	122-1435	Positive Type, Viton Material, Top Hat Style, OEM # 2418M517; NOTE: Brown
Guide	Both	140-3059	0.3555 I.D., 2.018 Length, 0.5135 O.D., OEM # 3313A012
Spring	Both	160-1645	2.016 Length, Conical, OEM # 3174A031, T417479

268 C.I., (4.4L), 1104D-44T/1104D-44TA, Diesel, OHV, 8 Valve, ""1100D Series TURBO""**1104D-44T****34**

L4 268 CID

BORE - 105mm/4.133""

PART		PART NO.	NOTES
Valve	Int	13363	1.831 Head Diameter, OEM # 3142H101
	Exh	13364	1.638 Head Diameter, OEM # 3142A171
Keeper	Both	121-1133	3 RD Bead Type, OEM # 2714A002
Stem Seal	Int	122-1434	Positive Type, Viton Material, Top Hat Style, OEM # 2418M519; NOTE: Green
	Exh	122-1435	Positive Type, Viton Material, Top Hat Style, OEM # 2418M517; NOTE: Brown
Guide	Both	140-3059	0.3555 I.D., 2.018 Length, 0.5135 O.D., OEM # 3313A012
Spring	Both	160-1645	2.016 Length, Conical, OEM # 3174A031, T417479

305 C.I., (5.0L), 6.305, Diesel, OHV, 12 Valve**6.305 35**

L6 305 CID

BORE - 91.44mm/3.60""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, Universal Size Seat For Heads W/O Factory Installed Seat
		SB1880E-1	1.880 O.D., 1 $\frac{13}{32}$ I.D., $\frac{7}{32}$ Depth, OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1437-3N	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, For Cylinder Head W/O Factory Installed Seat
		SB1681E-1	1.681 O.D., 1-13/64 I.D., $\frac{5}{16}$ Depth, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	00874	1.534 Head Diameter, OEM # 31431281 & 31431261
	Exh	00873	1.315 Head Diameter, OEM # 31431271
Keeper	Both	121-1051	1 RD Bead Type, OEM # 230001
Stem Seal	Both	122-1212	Positive Type, Viton Material, Ring & Band Style, Machine OE Guide To 0.439 O.D. To Accept Seal
		322-1002	Positive Type, Teflon Material, All Teflon Style, From S/N C10001
Guide	Both	140-1956	0.3150 I.D., 2.438 Length, 0.5025 O.D., OEM # 33261723

318 C.I., (5.2L), 4.318/A4.318, Diesel, OHV, 8 Valve**4.318 36**

L4 318 CID

BORE - 114.3mm/4.50""

PART		PART NO.	NOTES
Valve	Int	02167	1.845 Head Diameter, OEM # 31431154
	Exh	02166	1.594 Head Diameter, OEM # 31431671
Keeper	Both	121-1018	1 RD Bead Type, OEM # 33173108
Guide	Both	140-7450	0.3750 I.D., 2.650 Length, 0.6265 O.D., OEM # 33432532
Spring	Both	160-1291	2.578 Length, Outer, OEM # 31745121
		160-1301	2.000 Length, Inner, OEM # 31744131

PERKINS / HEAVY DUTY (Cont'd)

37 354 C.I., (5.8L), A6.354, Diesel, OHV, 12 Valve

A6.354

L6 354 CID

BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1 ⁷ / ₈ O.D., 1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth, Universal Size Seat For Heads W/O Factory Installed Seat
		SB2020E-1	2.020 O.D., 1.589 I.D., 0.2825 Depth, OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1562-6N	1 ⁹ / ₁₆ O.D., 1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth, Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-3	1.681 O.D., 1.251ST I.D., ³ / ₈ Depth, NOTE: Stepped I.D., OEM# 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat
		SB1690E-1	1.690 O.D., 1.251ST I.D., ³ / ₈ Depth, NOTE: Stepped I.D., OEM# 33152154, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	00883	1.744 Head Diameter, OEM # 31431641
		01887	1.772 Head Diameter, OEM # 3142L071
	Exh	00882A	1.440 Head Diameter, OEM # 3142A052, 31431104, 31431109, 3143188
		01784	1.473 Head Diameter, OEM # 3142A051
Keeper	Both	121-1018	1 RD Bead Type, OEM # 33173108
Stem Seal	Both	122-1037	Umbrella Type, Poly Material, Umbrella Style
		122-1270	Umbrella Type, Viton Material, Umbrella Style
		122-1398	Positive Type, Poly Material, All Rubber Style, OEM # 33817117
Guide	Int	140-3063	0.3740 I.D., 2.281 Length, 0.6264 O.D., OEM # 3343F002
	Exh	140-3064	0.3740 I.D., 2.407 Length, 0.6264 O.D., OEM # 3343J002
Spring	Both	160-1291	2.578 Length, Outer, OEM # 31745121
		160-1301	2.000 Length, Inner, OEM # 31744131
Lifter	Both	VL549	Mechanical Type, OEM # 31434163

38 354 C.I., (5.8L), ATC6.354, Diesel, OHV, 12 Valve, ""TURBO""

ATC6.354

L6 354 CID

BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1 ⁷ / ₈ O.D., 1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth, Universal Size Seat For Heads W/O Factory Installed Seat
		SB2020E-1	2.020 O.D., 1.589 I.D., 0.2825 Depth, OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1562-6N	1 ⁹ / ₁₆ O.D., 1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth, Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-3	1.681 O.D., 1.251ST I.D., ³ / ₈ Depth, NOTE: Stepped I.D., OEM # 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat
		SB1690E-1	1.690 O.D., 1.251ST I.D., ³ / ₈ Depth, NOTE: Stepped I.D., OEM# 33152154, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	00883	1.744 Head Diameter, OEM # 31431641
		01783	1.741 Head Diameter, OEM # 31431871
		01887	1.772 Head Diameter, OEM # 3142L071
	Exh	00882A	1.440 Head Diameter, OEM # 3142A052, 31431104, 31431109, 3143188
01784		1.473 Head Diameter, OEM # 3142A051	
Keeper	Both	121-1018	1 RD Bead Type, OEM # 33173108
Stem Seal	Both	122-1037	Umbrella Type, Poly Material, Umbrella Style
		122-1270	Umbrella Type, Viton Material, Umbrella Style
		122-1398	Positive Type, Poly Material, All Rubber Style, OEM # 33817117
Guide	Int	140-3063	0.3740 I.D., 2.281 Length, 0.6264 O.D., OEM # 3343F002
	Exh	140-3064	0.3740 I.D., 2.407 Length, 0.6264 O.D., OEM # 3343J002
Spring	Both	160-1291	2.578 Length, Outer, OEM # 31745121
		160-1301	2.000 Length, Inner, OEM # 31744131
Lifter	Both	VL549	Mechanical Type, OEM #31434163

(Cont'd) PERKINS / HEAVY DUTY**354 C.I., (5.8L), D6.354, 6.354, Diesel, OHV, 12 Valve****D6.354 39**

L6 354 CID

BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1 $\frac{7}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth, Universal Size Seat For Heads W/O Factory Installed Seat
		SB2020E-1	2.020 O.D., 1.589 I.D., 0.2825 Depth, OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1562-6N	1 $\frac{9}{16}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth, Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-3	1.681 O.D., 1.251ST I.D., $\frac{3}{8}$ Depth, NOTE: Stepped I.D., OEM# 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat
		SB1690E-1	1.690 O.D., 1.251ST I.D., $\frac{3}{8}$ Depth, NOTE: Stepped I.D., OEM# 33152154, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	01783	1.741 Head Diameter, OEM # 31431315
	Exh	00882A	1.440 Head Diameter, OEM # 3142A052, 31431104, 31431109, 3143188
Keeper	Both	121-1018	1 RD Bead Type, OEM # 33173108
Stem Seal	Both	122-1270	Umbrella Type, Viton Material, Umbrella Style
		122-1398	Positive Type, Poly Material, All Rubber Style, OEM # 33817117
Guide	Int	140-3063	0.3740 I.D., 2.281 Length, 0.6264 O.D., OEM # 3343F002
	Exh	140-3064	0.3740 I.D., 2.407 Length, 0.6264 O.D., OEM # 3343J002
Spring	Both	160-1291	2.578 Length, Outer, OEM # 31745121
		160-1301	2.000 Length, Inner, OEM # 31744131
Lifter	Both	VL549	Mechanical Type, OEM # 31434163

354 C.I., (5.8L), T6.354, Diesel, OHV, 12 Valve, ""TURBO""**T6.354 40**

L6 354 CID

BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1 $\frac{7}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth, Universal Size Seat For Heads W/O Factory Installed Seat
		SB2020E-1	2.020 O.D., 1.589 I.D., 0.2825 Depth, OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1562-6N	1 $\frac{9}{16}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth, Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-3	1.681 O.D., 1.251ST I.D., $\frac{3}{8}$ Depth, NOTE: Stepped I.D., OEM# 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat
		SB1690E-1	1.690 O.D., 1.251ST I.D., $\frac{3}{8}$ Depth, NOTE: Stepped I.D., OEM# 33152154, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	01783	1.741 Head Diameter, OEM # 31431315
	Exh	00882A	1.440 Head Diameter, OEM # 3142A052, 31431104, 31431109, 3143188
Keeper	Both	121-1018	1 RD Bead Type, OEM # 33173108
Stem Seal	Both	122-1037	Umbrella Type, Poly Material, Umbrella Style
		122-1270	Umbrella Type, Viton Material, Umbrella Style
		122-1398	Positive Type, Poly Material, All Rubber Style, OEM # 33817117
Guide	Int	140-3063	0.3740 I.D., 2.281 Length, 0.6264 O.D., OEM # 3343F002
	Exh	140-3064	0.3740 I.D., 2.407 Length, 0.6264 O.D., OEM # 3343J002
Spring	Both	160-1291	2.578 Length, Outer, OEM # 31745121
		160-1301	2.000 Length, Inner, OEM # 31744131
Lifter	Both	VL549	Mechanical Type, OEM # 31434163

354 C.I., (5.8L), T6.354.4, Diesel, OHV, 12 Valve, ""TURBO""**T6.354.4 41**

L6 354 CID

BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve	Int	01783	1.741 Head Diameter, OEM # 31431315
	Exh	01784	1.473 Head Diameter, OEM # 3142A051
Keeper	Both	121-1018	1 RD Bead Type, OEM # 33173108

PERKINS / HEAVY DUTY (Cont'd)

41 354 C.I., (5.8L), T6.354.4, Diesel, OHV, 12 Valve, ""TURBO"" T6.354.4
 (cont.) L6 354 CID BORE - 98.425mm/3.875""

PART		PART NO.	NOTES
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002
Spring	Both	160-1291	2.578 Length,Outer, OEM # 31745121
		160-1301	2.000 Length,Inner, OEM # 31744131
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

42 354 C.I., (5.8L), 6.354.1, Diesel, OHV, 12 Valve 6.354.1
L6 354 CID BORE - 98.476mm/3.877""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1 ⁷ / ₈ O.D.,1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB2020E-1	2.020 O.D.,1.589 I.D.,0.2825 Depth,OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1562-6N	1 ⁹ / ₁₆ O.D.,1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-3	1.681 O.D.,1.251ST I.D., ³ / ₈ Depth,NOTE: Stepped I.D.,OEM# 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat
		SB1690E-1	1.690 O.D.,1.251ST I.D., ³ / ₈ Depth,NOTE: Stepped I.D.,OEM# 33152154, OEM Replacement For Cylinder Head W/ Factory Installed
Valve	Int	01783	1.741 Head Diameter,OEM # 31431315
	Exh	13111	1.440 Head Diameter,OEM # 31431931
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002
Spring	Both	160-1291	2.578 Length,Outer, OEM # 31745121
		160-1301	2.000 Length,Inner, OEM # 31744131
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

43 354 C.I., (5.8L), 6.354.2, Diesel, OHV, 12 Valve 6.354.2
L6 354 CID BORE - 98.476mm/3.877""

PART		PART NO.	NOTES
Valve	Int	01783	1.741 Head Diameter,OEM # 31431315
	Exh	00882A	1.440 Head Diameter,OEM # 3142A052, 31431104, 31431109, 3143188
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002
Spring	Both	160-1291	2.578 Length,Outer, OEM # 31745121
		160-1301	2.000 Length,Inner, OEM # 31744131
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

44 365 C.I., (6.0L), T6.601, Diesel, OHV, 12 Valve, ""N/A & TURBO"" T6.601
L6 365 CID BORE - 100mm/3.937""

PART		PART NO.	NOTES
Valve	Int	05001	1.693 Head Diameter,OEM # 3142D041, 45 Degree
		13136	1.693 Head Diameter,OEM # 3142L081, 30 Degree
	Exh	05002S	1.620 Head Diameter,Stellite Face,OEM # 3142D031, 45 Degree
		13219	1.616 Head Diameter,OEM # 3142D051, 30 Degree

(Cont'd) PERKINS / HEAVY DUTY**365 C.I., (6.0L), T6.601, Diesel, OHV, 12 Valve, ""N/A & TURBO""****T6.601 44**

L6 365 CID

BORE - 100mm/3.937"" (cont.)

PART		PART NO.	NOTES
Keeper	Both	121-1118	1 RD Bead Type,OEM # 3142W004
Stem Seal	Int	122-1395	Positive Type,Viton Material,All Rubber Style,OEM # 2418M506, 2418M507
	Exh	122-1397	Positive Type,Viton Material,All Rubber Style,OEM # 2418M505
Guide	Int	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 3313A012
	Exh	140-3060	0.3547 I.D.,2.018 Length,0.5527 O.D.,OEM # 3318A705
Spring	Both	160-1498	1.847 Length,OEM # 3174P409

365 C.I., (6.0L), 1006.60, Diesel, OHV, 12 Valve**1006.6 45**

L6 365 CID

BORE - 100mm/3.937""

PART		PART NO.	NOTES
Valve	Int	01887	1.772 Head Diameter,OEM # 3142L051
	Exh	01784	1.473 Head Diameter,OEM # 3142A051
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002 & 3343F041
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002 & 3343J021, W/ Counterbore
Spring	Both	160-1496	1.672 Length,Inner, OEM # 31744133
		160-1497	1.809 Length,Outer, OEM # 31745122
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

365 C.I., (6.0L), 1006.60T, Diesel, OHV, 12 Valve, ""TURBO""**1006.60T 46**

L6 365 CID

BORE - 100mm/3.937""

PART		PART NO.	NOTES
Valve	Int	01887	1.772 Head Diameter,OEM # 3142L071, 45 Degree, NOTE: To ESN 557976X
		05000	1.772 Head Diameter,OEM # 3142L072, 30 Degree, NOTE: From ESN 557977X
	Exh	01784	1.473 Head Diameter,OEM # 3142A051
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002 & 3343F041
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002 & 3343J021, W/ Counterbore
Spring	Both	160-1496	1.672 Length,Inner, OEM # 31744133
		160-1497	1.809 Length,Outer, OEM # 31745122
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

366 C.I., (6.0L), 1106C-E60TA, Diesel, OHV, 12 Valve, ""1100 Series""**1106C-E60TA 47**

L6 366 CID

BORE - 100mm/3.937""

PART		PART NO.	NOTES
Valve	Int	13136	1.693 Head Diameter,OEM # 3142L081
	Exh	05002S	1.620 Head Diameter,Stellite Face,OEM # 3142D031
Keeper	Both	121-1118	1 RD Bead Type,OEM # 3142W004
Stem Seal	Int	122-1395	Positive Type,Viton Material,All Rubber Style,OEM # 2418M506, 2418M507
	Exh	122-1397	Positive Type,Viton Material,All Rubber Style,OEM # 2418M505
Guide	Int	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 3313A012
	Exh	140-3060	0.3547 I.D.,2.018 Length,0.5527 O.D.,OEM # 3318A705
Spring	Both	160-1498	1.847 Length,OEM # 3174P409

PERKINS / HEAVY DUTY (Cont'd)

47 366 C.I., (6.0L), 1106C-E60TA, Diesel, OHV, 12 Valve, ""1100 Series"" 1106C-E60TA
(cont.) L6 366 CID BORE - 100mm/3.937""

PART	PART NO.	NOTES
Lifter	Both VL549	Mechanical Type,OEM # 31434163

48 372 C.I., (6.1L), 6.372, Diesel, OHV, 12 Valve 6.372
L6 372 CID BORE - 97.99mm/3.858""

PART	PART NO.	NOTES
Valve	Int 00883 Exh 00882A	1.744 Head Diameter,OEM # 31431641 1.440 Head Diameter,OEM # 31431891, 3142A052
Keeper	Both 121-1018	1 RD Bead Type,OEM # 33173108
Stem Seal	Both 122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int 140-3063 Exh 140-3064	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002 0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002
Spring	Both 160-1291 160-1301	2.578 Length,OEM # 31745121 2.000 Length,OEM # 31744131
Lifter	Both VL549	Mechanical Type,OEM # 31434163

49 372 C.I., (6.1L), 6.372.4, Diesel, OHV, 12 Valve 6.372.4
L6 372 CID BORE - 97.99mm/3.858""

PART	PART NO.	NOTES
Valve	Int 00883 Exh 01784	1.744 Head Diameter,OEM # 31431641 1.473 Head Diameter,OEM # 3142A051
Keeper	Both 121-1018	1 RD Bead Type,OEM # 33173108
Stem Seal	Both 122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int 140-3063 Exh 140-3064	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002 0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002
Spring	Both 160-1291 160-1301	2.578 Length,OEM # 31745121 2.000 Length,OEM # 31744131
Lifter	Both VL549	Mechanical Type,OEM # 31434163

SAAB / PASSENGER CAR

Engine	Models	Line No.
4 Cylinder		
1985cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin B (1973-74)	99	1
1985cc, (2.0L), SOHC, GAS, CARB, FI, 8 Valve, Vin 3, 4, D, J, L, S (1973-80)	900, 99	2
1985cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin 3, 4, J, S, B201I, ""N/A & TURBO"" (1981-88)	900	3
1985cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin L, B202L, ""TURBO"" (1986-93)	900 Turbo, 9000 Turbo	4
1985cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin Y, B207L, B207R, ""TURBO"" (2003-11)	9-3, 9-3X	5
1994cc, (2.0L), DOHC, GAS, FI, 16 Valve, EJ205, ""Subaru TURBO"" (2005-05)	9-2X Turbo	6
2458cc, (2.5L), SOHC, GAS, FI, 16 Valve, EJ253, ""Subaru"" (2005-06)	9-2X	7
2458cc, (2.5L), DOHC, GAS, FI, 16 Valve, EJ255, ""Subaru TURBO"" (2006-06)	9-2X	8

(Cont'd) **SAAB / PASSENGER CAR**

Engine	Models	Line No.		
6 Cylinder				
2498cc, (2.5L), DOHC, GAS, FI, 24 Valve, Vin V, B258I, "GM Ecotec" (1994-97)	900	9		
2800cc, (2.8L), DOHC, GAS, FI, 24 Valve, Vin 6, J, R, U, A28NER, B284, B284R, "GM LP9/LAU TURBO" (2006-11)	9-3, 9-4X, 9-5	10		
2961cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin W, B308I, "GM Ecotec" (1995-97)	9000	11		
2961cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin Z, B308E, "GM Ecotec TURBO" (1999-03)	5-Sep	12		
256 C.I., (4.2L), DOHC, GAS, FI, 24 Valve, Vin S, "GM LL8 Vortec" (2006-09)	9-7x	13		
8 Cylinder				
325 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin M, "GM LH6 AFM Vortec" (2006-09)	9-7x	14		
364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin H, "GM LS2 Vortec" (2008-09)	9-7x	15		
1985cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin B				
1973-74	L4 121 CID	SAB-2.0SC_CA BORE - 90mm/3.54" 1		
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1973-74 1973-74	SB1750-65 SB1500-70	1¼ O.D., 1.468 I.D., 0.2760 Depth, Aluminum Cylinder Head 1½ O.D., 1.203 I.D., 0.2830 Depth
1985cc, (2.0L), SOHC, GAS, CARB, FI, 8 Valve, Vin 3, 4, D, J, L, S				
1973-80	L4 121 CID	SAB-2.0SC_FI BORE - 90mm/3.54" 2		
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1973-80 1973-80	SB1750-65 SB1500-70	1¼ O.D., 1.468 I.D., 0.2760 Depth 1½ O.D., 1.203 I.D., 0.2830 Depth
1985cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin 3, 4, J, S, B201I, "N/A & TURBO"				
1981-88	L4 121 CID	SAB-B201I BORE - 86.5mm/3.41" 3		
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1981-88 1981-88	SB1750-65 SB1500-70	1¼ O.D., 1.468 I.D., 0.2760 Depth, Aluminum Cylinder Head 1½ O.D., 1.203 I.D., 0.2830 Depth
Stem Seal	Both	1981-88 1981-88	122-1075 122-1086	Positive Type, Viton Material, Ring & Band Style Positive Type, Viton Material, Metal Clad Style
1985cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin L, B202L, "TURBO"				
1986-93	L4 121 CID	SAB-B202LT BORE - 86.5mm/3.41" 4		
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1986-93 1986-93	SB1375-51 SB1312-68	1⅜ O.D., 1.060T I.D., 0.2800 Depth 1⅝ O.D., 0.975 I.D., 0.2800 Depth, W/ 1.181 Valve Head Dia.
1985cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin Y, B207L, B207R, "TURBO"				
2003-11	L4 122 CID	SAB-B207 BORE - 86mm/3.39" 5		
PART	YEARS	PART NO.	NOTES	
Valve	Int Exh	2003-04 2005-11 2003-11	13331 13293 13332SN	1.380 Head Diameter 1.382 Head Diameter 1.185 Head Diameter, Stellite Face, Sodium Filled
Keeper	Both	2003-11	121-1098	3 RD Bead Type
Stem Seal	Both	2003-11	122-1355	Positive Type, Viton Material, Top Hat Style
Guide	Both	2003-11	140-3029	0.2365 I.D., 1.420 Length, 0.3950 O.D.

SAAB / PASSENGER CAR (Cont'd)

5 1985cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin Y, B207L, B207R, ""TURBO"" SAB-B207
(cont.) 2003-11 L4 122 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES
Spring	Both	2003-11 160-1508	1.678 Length
Lifter	Both	2003-11 VL175	Hydraulic Lash Adjuster Type

6 1994cc, (2.0L), DOHC, GAS, FI, 16 Valve, EJ205, ""Subaru TURBO"" SAB-EJ205
2005-05 H4 122 CID BORE - 92mm/3.62""

PART	YEARS	PART NO.	NOTES
Valve	Int	2005-05 13201	1.417 Head Diameter
	Exh	2005-05 13203S	1.260 Head Diameter,Stellite Face
Keeper	Both	2005-05 121-1129	1 RD Bead Type
Stem Seal	Int	2005-05 122-1180	Positive Type,Viton Material,Metal Clad Style
	Exh	2005-05 122-1181	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2005-05 140-3118	0.2360 I.D.,1.556 Length,0.4360 O.D.
	Exh	2005-05 140-3119	0.2360 I.D.,1.872 Length,0.4360 O.D.

7 2458cc, (2.5L), SOHC, GAS, FI, 16 Valve, EJ253, ""Subaru"" SAB-EJ253SC
2005-06 H4 150 CID BORE - 99.5mm/3.92""

PART	YEARS	PART NO.	NOTES
Valve	Int	2005-06 10806	1.417 Head Diameter
	Exh	2005-06 10807	1.239 Head Diameter
Stem Seal	Int	2005-06 122-1180	Positive Type,Viton Material,Metal Clad Style
	Exh	2005-06 122-1181	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2005-06 140-8203	0.2365 I.D.,2.065 Length,0.4363 O.D.,+1 O/S Available
Spring	Both	2005-06 160-1621	2.137 Length
Head Saver Shim		2005-06 230-2156	New Hgt. 3.839; Min. Hgt. 3.835; NOTE: 2 Required

8 2458cc, (2.5L), DOHC, GAS, FI, 16 Valve, EJ255, ""Subaru TURBO"" SAB-EJ255DC
2006-06 H4 150 CID BORE - 99.5mm/3.92""

PART	YEARS	PART NO.	NOTES
Valve	Int	2006-06 13201	1.417 Head Diameter
	Exh	2006-06 13203S	1.260 Head Diameter,Stellite Face
Keeper	Both	2006-06 121-1129	1 RD Bead Type
Stem Seal	Int	2006-06 122-1180	Positive Type,Viton Material,Metal Clad Style
	Exh	2006-06 122-1181	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2006-06 140-3118	0.2360 I.D.,1.556 Length,0.4360 O.D.
	Exh	2006-06 140-3119	0.2360 I.D.,1.872 Length,0.4360 O.D.
Head Bolt Set		2006-06 220-1110	Torque To Yield,Services Engine
Head Saver Shim		2006-06 230-2194	New Hgt. - 5.020; Min. Hgt. - 5.008

9 2498cc, (2.5L), DOHC, GAS, FI, 24 Valve, Vin V, B258I, ""GM Ecotec"" SAB-B258I
1994-97 V6 152 CID BORE - 81.9mm/3.21""

PART	YEARS	PART NO.	NOTES
Valve	Int	1994-97 10784	1.260 Head Diameter
	Exh	1994-97 02040S	1.142 Head Diameter,Recommended OEM Nickel Base Inconel Material, Stellite Face
		1994-97 22040S	1.142 Head Diameter,Alternative Austenitic Material, Stellite Face
Stem Seal	Both	1994-97 122-1329	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1994-97 140-3010	0.2362 I.D.,1.773 Length,0.3950 O.D.
	Exh	1994-97 140-3011	0.2362 I.D.,1.378 Length,0.3950 O.D.

(Cont'd) SAAB / PASSENGER CAR

2800cc, (2.8L), DOHC, GAS, FI, 24 Valve, Vin 6, J, R, U, A28NER, B284, B284R, ""GM LP9/LAU TURBO""
 2006-11 V6 170 CID

10
 SAB-2.8LP9

BORE - 89mm/3.50""

PART		YEARS	PART NO.	NOTES
Valve	Int	2006-11	13211	1.384 Head Diameter
	Exh	2006-11	13230	1.142 Head Diameter
Keeper	Both	2006-11	121-1127	1 RD Bead Type
Stem Seal	Both	2006-11	122-1418	Positive Type,Viton Material,Top Hat Style
Guide	Both	2006-11	140-3112	0.2365 I.D.,1.655 Length,0.4358 O.D.
Spring	Both	2006-11	160-1588	1.729 Length,Conical
Lifter	Both	2006-11	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2006-11	180-1323	Cam Follower

2961cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin W, B308I, ""GM Ecotec""
 1995-97 V6 181 CID

11
 SAB-B308I

BORE - 86mm/3.39""

PART		YEARS	PART NO.	NOTES
Valve	Int	1995-97	10784	1.260 Head Diameter
	Exh	1995-97	02040S	1.142 Head Diameter,Recommended OEM Nickel Base Inconel Material, Stellite Face
		1995-97	22040S	1.142 Head Diameter,Alternative Austenitic Material, Stellite Face
Keeper	Both	1995-97	121-1098	3 RD Bead Type
Stem Seal	Both	1995-97	122-1329	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1995-97	140-3010	0.2362 I.D.,1.773 Length,0.3950 O.D.
	Exh	1995-97	140-3011	0.2362 I.D.,1.378 Length,0.3950 O.D.
Head Bolt Set		1995-97	220-1092	Torque To Yield,2 Required
Head Saver Shim		1995-97	230-2173	New Hgt. - 5.272 - 5.280; Min Hgt. - 5.272

2961cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin Z, B308E, ""GM Ecotec TURBO""

12
 SAB-B308E

1999-03 V6 181 CID

BORE - 86mm/3.39""

PART		YEARS	PART NO.	NOTES
Valve	Int	1999-03	10784	1.260 Head Diameter
	Exh	1999-03	02040S	1.142 Head Diameter,Recommended OEM Nickel Base Inconel Material, Stellite Face
		1999-03	22040S	1.142 Head Diameter,Alternative Austenitic Material, Stellite Face
Keeper	Both	1999-03	121-1098	3 RD Bead Type
Stem Seal	Both	1999-03	122-1329	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1999-03	140-3010	0.2362 I.D.,1.773 Length,0.3950 O.D.
	Exh	1999-03	140-3011	0.2362 I.D.,1.378 Length,0.3950 O.D.
Head Bolt Set		1999-03	220-1092	Torque To Yield,2 Required

256 C.I., (4.2L), DOHC, GAS, FI, 24 Valve, Vin S, ""GM LL8 Vortec""
 2006-09 L6 256 CID

13
 SAB-4.2GM

BORE - 93mm/3.66""

PART		YEARS	PART NO.	NOTES
Valve	Int	2006-09	13179	1.525 Head Diameter
	Exh	2006-09	13046	1.323 Head Diameter
Keeper	Both	2006-09	121-1098	3 RD Bead Type
Stem Seal	Both	2006-09	122-1394	Positive Type,Viton Material,Top Hat Style
Guide	Both	2006-09	140-8556	0.2355 I.D.,1.735 Length,0.4360 O.D.
Spring	Both	2006-09	160-1579	1.760 Length,Conical

SAAB / PASSENGER CAR (Cont'd)

13 256 C.I., (4.2L), DOHC, GAS, FI, 24 Valve, Vin S, ""GM LL8 Vortec"" SAB-4.2GM
 (cont.) 2006-09 L6 256 CID BORE - 93mm/3.66""

PART	YEARS	PART NO.	NOTES
Lifter	Both	2006-09 VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2006-09 180-1323	Cam Follower
Head Bolt Set		2006-09 220-1101	Torque To Yield,Services Engine

14 325 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin M, ""GM LH6 AFM Vortec"" SAB-5.3GM
 2006-09 V8 323 CID BORE - 96mm/3.78""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2006-09 SB2062-50	2 ¹ / ₁₆ O.D., 1.750 I.D., 0.4200 Depth, Also Available In Non-Magnetic (N) Material
	Exh	2006-09 SB1625-64	1 ⁵ / ₈ O.D., 1.335T I.D., 0.4200 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		2006-09 SB1625-64PM	1 ⁵ / ₈ O.D., 1.335T I.D., 0.4200 Depth, OEM Equivalent PM Material,
Valve	Int	2006-07 2008-09 01934 02000	1.890 Head Diameter 2.000 Head Diameter
	Exh	2006-09 01935	1.551 Head Diameter
Keeper	Both	2006-09 121-1085	1 RD Bead Type
Stem Seal	Int	2006-09 122-1337	Positive Type, Viton Material, Top Hat Style
	Exh	2006-09 122-1338	Positive Type, Viton Material, Top Hat Style
Guide	Both	2006-09 140-3053	0.3154 I.D., 2.115 Length, 0.5000 O.D., +2 O/S Available (140-3053+2)
		2006-09 140-3053H	0.3154 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional Hardened Version
		2006-09 140-3053U	0.3054 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional - 010 Undersized I.D.
		2006-09 340-1046BR	0.3150 I.D., 2.120 Length, 0.5010 O.D., NOTE: Optional Bronze Version
Spring	Both	2006-09 160-1488	2.130 Length, Conical
Lifter	Both	2006-09 VL558	AFM Hydraulic Roller Type, W/Spring, Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2006-09 VL558E	AFM Hydraulic Roller Type, W/Spring, Active Fuel Management, 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2006-09 VL558FG	AFM Lifter Guide-Front Type, OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2006-09 VL558RG	AFM Lifter Guide-Rear Type, OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2006-09 VL559	Hydraulic Roller Type, Oil Hole Is Positioned In Line With Roller Pin., Non-Active Fuel Management; OEM # 17122490; 8 Required
Rocker Components	Both	2006-09 180-1337	Rocker Arm, Roller Pivot Assy., NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2006-09 190-1537	7.397 Length
Head Bolt Set		2006-09 220-1103	Torque To Yield, NOTE: Services Engine

15 364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin H, ""GM LS2 Vortec"" SAB-6.0GM
 2008-09 V8 364 CID BORE - 101.6mm/4.00""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2008-09 SB2062-51	2 ¹ / ₁₆ O.D., 1.750T I.D., 0.3900 Depth, Also Available In Non-Magnetic (N) Material
		2008-09 SB2062-51PM	2 ¹ / ₁₆ O.D., 1.750T I.D., 0.3900 Depth, OEM Equivalent PM Material

(Cont'd) **SAAB / PASSENGER CAR**

364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin H, ""GM LS2 Vortec""
2008-09 V8 364 CID

SAB-6.0GM **15**
BORE - 101.6mm/4.00"" (cont.)

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	2008-09	SB1625-64	1½ O.D., 1.335T I.D., 0.4200 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		2008-09	SB1625-64PM	1½ O.D., 1.335T I.D., 0.4200 Depth, OEM Equivalent PM Material,
Valve	Int	2008-09	02000	2.000 Head Diameter
	Exh	2008-09	01935	1.551 Head Diameter
Keeper	Both	2008-09	121-1085	1 RD Bead Type
Stem Seal	Int	2008-09	122-1337	Positive Type, Viton Material, Top Hat Style
	Exh	2008-09	122-1338	Positive Type, Viton Material, Top Hat Style
Guide	Both	2008-09	140-3053	0.3154 I.D., 2.115 Length, 0.5000 O.D., +2 O/S Available (140-3053+2)
		2008-09	140-3053H	0.3154 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional Hardened Version
		2008-09	140-3053U	0.3054 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional - 010 Undersized I.D.
		2008-09	340-1046BR	0.3150 I.D., 2.120 Length, 0.5010 O.D., NOTE: Optional Bronze Version
Spring	Both	2008-09	160-1488	2.130 Length, Conical
Lifter	Both	2008-09	VL559	Hydraulic Roller Type, Oil Hole Is Positioned In Line With Roller Pin., Non-Active Fuel Management; OEM # 17122490
		2008-09	VL559G	Non-AFM Lifter Guide Type, Non-AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
Rocker Components	Both	2008-09	180-1337	Rocker Arm, Roller Pivot Assy., NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2008-09	190-1537	7.397 Length
Head Bolt Set		2008-09	220-1103	Torque To Yield, NOTE: Services Engine
Head Saver Shim		2008-09	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

SCION / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
1329cc, (1.3L), DOHC, GAS, FI, 16 Valve, Vin J, 1NR-FE (2012-15)	iQ	1
1497cc, (1.5L), DOHC, GAS, FI, 16 Valve, 1NZ-FE (2004-06)	xA, xB	2
1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin U, 2ZR-FE (2008-14)	xD	3
2362cc, (2.4L), DOHC, GAS, FI, 16 Valve, 2AZ-FE (2005-15)	tC, xB	4
2494cc, (2.5L), DOHC, GAS, FI, 16 Valve, 2AR-FE (2011-16)	tC	5

1329cc, (1.3L), DOHC, GAS, FI, 16 Valve, Vin J, 1NR-FE SCI_1NR-FE **1**
2012-15 L4 81 CID BORE - 72.5mm/2.85""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2012-15	121-1100	1 RD Bead Type
Stem Seal	Int	2012-15	122-1266	Positive Type, Viton Material, Metal Clad Style
	Exh	2012-15	122-1282	Positive Type, Viton Material, Metal Clad Style

1497cc, (1.5L), DOHC, GAS, FI, 16 Valve, 1NZ-FE SCI_1NZ-FE **2**
2004-06 L4 91 CID BORE - 75mm/2.95""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2004-06	02241	1.205 Head Diameter

SCION / PASSENGER CAR OR TRUCK (Cont'd)

2 1497cc, (1.5L), DOHC, GAS, FI, 16 Valve, 1NZ-FE SCI_1NZ-FE
 (cont.) 2004-06 L4 91 CID BORE - 75mm/2.95"

PART	YEARS	PART NO.	NOTES
Valve	Exh	2004-06 02240	1.004 Head Diameter

3 1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin U, 2ZR-FE SCI_2ZR-FE
 2008-14 L4 110 CID BORE - 80.5mm/3.17"

PART	YEARS	PART NO.	NOTES
Valve	Int	2008-14 13365	1.260 Head Diameter
	Exh	2008-14 13366	1.084 Head Diameter
Keeper	Both	2008-14 121-1100	1 RD Bead Type
Stem Seal	Int	2008-14 122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2008-14 122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2008-14 140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Both	2008-14 140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

4 2362cc, (2.4L), DOHC, GAS, FI, 16 Valve, 2AZ-FE SCI_2AZ-FE
 2005-15 L4 144 CID BORE - 88.5mm/3.48"

PART	YEARS	PART NO.	NOTES
Valve	Int	2005-15 10798	1.339 Head Diameter
	Exh	2005-15 10799	1.161 Head Diameter
Keeper	Both	2005-15 121-1100	1 RD Bead Type
Stem Seal	Int	2005-15 122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2005-15 122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2005-15 140-8585	0.2175 I.D.,1.590 Length,0.4075 O.D.
Head Saver Shim		2005-15 230-2143	New Hgt. - 5.090; Min. Hgt. - N/A

5 2494cc, (2.5L), DOHC, GAS, FI, 16 Valve, 2AR-FE SCI_2AR-FE
 2011-16 L4 152 CID BORE - 90mm/3.54"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2011-16 121-1100	1 RD Bead Type
Stem Seal	Int	2011-16 122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2011-16 122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2011-16 140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh	2011-16 140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

SHIBAURA / HEAVY DUTY

Engine Models Line No.

- 3 Cylinder**
- 91 C.I., (1.5L), N843-C, Diesel, OHV, 6 Valve 1
- 4 Cylinder**
- 135 C.I., (2.2L), N844L-C, Diesel, OHV, 8 Valve 2
- 135 C.I., (2.2L), N844LT-C, Diesel, OHV, 8 Valve, ""TURBO"" 3

1 91 C.I., (1.5L), N843-C, Diesel, OHV, 6 Valve SHB-N843C
 L3 91 CID BORE - 84.01mm/3.307"

PART	PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1558E-1PM SB1400E-1PM
		1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # SBA110136300 1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # SBAU10136460
Valve	Int Exh	13326 13327
		1.457 Head Diameter,OEM # SBA120166350, SBA120166380; NOTE: Late 1.299 Head Diameter,OEM # SBA120176360, SBA120176380; NOTE: Late
Keeper	Both	121-1146
		1 RD Bead Type,OEM # SBA120226070

(Cont'd) **SHIBAURA / HEAVY DUTY**

91 C.I., (1.5L), N843-C, Diesel, OHV, 6 Valve
L3 91 CID

SHB-N843C 1
BORE - 84.01mm/3.307"" (cont.)

PART		PART NO.	NOTES
Stem Seal	Int	122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # SBA120406070
	Exh	122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # SBA120406050
Guide	Both	140-3202	0.2756 I.D.,1.460 Length,0.5020 O.D.

135 C.I., (2.2L), N844L-C, Diesel, OHV, 8 Valve
L4 135 CID

SHB-N844L-C 2
BORE - 84.01mm/3.307""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1558E-1PM	1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # SBA110136300
	Exh	SB1400E-1PM	1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # SBAU10136460
Valve	Int	13326	1.457 Head Diameter,OEM # SBA120166350, SBA120166380; NOTE: Late
	Exh	13327	1.299 Head Diameter,OEM # SBA120176360, SBA120176380; NOTE: Late
Keeper	Both	121-1146	1 RD Bead Type,OEM # SBA120226070
Stem Seal	Int	122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # SBA120406070
	Exh	122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # SBA120406050
Guide	Both	140-3202	0.2756 I.D.,1.460 Length,0.5020 O.D.
Spring	Both	160-1638	1.382 Length,OEM # SBA198216700

135 C.I., (2.2L), N844LT-C, Diesel, OHV, 8 Valve, ""TURBO""
L4 135 CID

SHB-N844LT-C 3
BORE - 84.01mm/3.307""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1558E-1PM	1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # SBA110136300
	Exh	SB1400E-1PM	1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # SBAU10136460
Valve	Int	13326	1.457 Head Diameter,OEM # SBA120166350, SBA120166380; NOTE: Late
	Exh	13327	1.299 Head Diameter,OEM # SBA120176360, SBA120176380; NOTE: Late
Keeper	Both	121-1146	1 RD Bead Type,OEM # SBA120226070
Stem Seal	Int	122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # SBA120406070
	Exh	122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # SBA120406050
Guide	Both	140-3202	0.2756 I.D.,1.460 Length,0.5020 O.D.
Spring	Both	160-1638	1.382 Length,OEM # SBA198216700

STUDEBAKER / PASSENGER CAR

Engine	Models	Line No.
6 Cylinder		
170 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, ""L-HEAD"" (1946-60)	Champion, Hawk, Lark, Silver Hawk, Taxi	1
8 Cylinder		
259 C.I., (4.2L), OHV, GAS, CARB, 16 Valve (1955-64)	Challenger, Commander, Cruiser, Daytona, Gran, Hawk, Lark, Police Car, Power Hawk, President, Silver Hawk	2

170 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, ""L-HEAD""
1946-60 L6 170 CID

STU170 1
BORE - 76.2mm/3.00""

PART		YEARS	PART NO.	NOTES
Guide	Both	1946-60	140-1503	0.3130 I.D.,2.125 Length,0.6578 O.D.

259 C.I., (4.2L), OHV, GAS, CARB, 16 Valve
1955-64 V8 259 CID

STU259 2
BORE - 90.5mm/3.56""

PART		YEARS	PART NO.	NOTES
Guide	Int	1955-64	140-1690	0.3435 I.D.,3.000 Length,0.5645 O.D.
	Exh	1955-64	140-1689	0.3445 I.D.,2.625 Length,0.5643 O.D.

SUBARU / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
3 Cylinder		
1189cc, (1.2L), SOHC, GAS, CARB, 9 Valve, Vin 7, 8, EF12 (1987-91)	Justy	1
1189cc, (1.2L), SOHC, GAS, FI, 9 Valve, Vin 7, 8, EF12 (1990-94)	Justy	2
4 Cylinder		
1595cc, (1.6L), OHV, GAS, CARB, 8 Valve, Vin 2, 3, EA71 (1976-87)	Brat, DL, FE, GF, GL, GLF, Standard	3
1781cc, (1.8L), OHV, SOHC, GAS, CARB, 8 Valve, Vin 4, 5, EA81 (1980-87)	Brat, DL, GL, GLF, Standard	4
1781cc, (1.8L), OHV, GAS, FI, 8 Valve, Vin 5, EA81T, ""TURBO"" (1983-84)	Brat, GL	5
1781cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin 4, 5, 7, EA82 (1985-89)	DL, GL, GL-10, XT	6
1781cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin 4, 5, 7, EA82T, ""TURBO"" (1985-90)	GL, GL-10, Loyale, RX, XT	7
1781cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin 4, 5, EA82S (1990-94)	Loyale, XT	8
1781cc, (1.8L), SOHC, GAS, FI, 16 Valve, Vin 1, 2, EJ18 (1993-97)	Impreza	9
1994cc, (2.0L), DOHC, GAS, FI, 16 Valve, EJ205, ""TURBO"" (2002-05)	Impreza	10
1995cc, (2.0L), DOHC, GAS, FI, 16 Valve, FB20B, FB20D (2012-21)	Crosstrek, Impreza, XV Crosstrek	11
1995cc, (2.0L), DOHC, ELECTRIC/GAS, FI, 16 Valve, FB20V, ""Hybrid"" (2019-21)	Crosstrek	12
1995cc, (2.0L), DOHC, ELECTRIC/GAS, FI, 16 Valve, FB20X, ""Hybrid"" (2014-16)	Crosstrek, XV Crosstrek	13
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin A, FA20D (2013-20)	BRZ	14
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, FA20F, ""TURBO"" (2014-20)	Forester, WRX	15
2212cc, (2.2L), SOHC, GAS, FI, 16 Valve, Vin 3, 4, 6, EJ222, EJ223, EJ22E, EJ22EZ (1990-01)	Impreza, Legacy	16
2212cc, (2.2L), SOHC, GAS, FI, 16 Valve, Vin 6, EJ22, ""TURBO"" (1991-94)	Legacy	17
2387cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin A, FA24, ""TURBO"" (2019-21)	Ascent	18
2458cc, (2.5L), DOHC, GAS, FI, 16 Valve, Vin 6, EJ25D (1996-99)	Forester, Impreza, Legacy	19
2458cc, (2.5L), SOHC, GAS, FI, 16 Valve, Vin 6, EJ251, EJ252, EJ253, EJ259 (1999-12)	Baja, Forester, Impreza, Legacy, Outback	20
2458cc, (2.5L), DOHC, GAS, FI, 16 Valve, EJ255 (2004-14)	Baja, Forester, Impreza, Legacy, Outback, WRX	21
2458cc, (2.5L), DOHC, GAS, FI, 16 Valve, EJ257, ""TURBO"" (2004-19)	Impreza, WRX STI	22
2498cc, (2.5L), DOHC, GAS, FI, 16 Valve, FB25BA (2011-18)	Forester	23
2498cc, (2.5L), DOHC, GAS, FI, 16 Valve, FB25BC (2011-13)	Forester	24
2498cc, (2.5L), DOHC, GAS, FI, 16 Valve, FB25 (2013-19)	Legacy, Outback	25

(Cont'd) **SUBARU / PASSENGER CAR OR TRUCK**

Engine	Models	Line No.		
6 Cylinder				
2672cc, (2.7L), SOHC, GAS, FI, 12 Valve, Vin 8, 9, ER27 (1988-91)	XT	26		
3000cc, (3.0L), DOHC, GAS, FI, 24 Valve, EZ30D (2001-09)	B9 Tribeca, Legacy, Outback	27		
3318cc, (3.3L), DOHC, GAS, FI, 24 Valve, Vin 3, 8, EG33D (1992-97)	SVX	28		
3630cc, (3.6L), DOHC, GAS, FI, 24 Valve, EZ36D (2008-19)	Legacy, Outback, Tribeca	29		
1189cc, (1.2L), SOHC, GAS, CARB, 9 Valve, Vin 7, 8, EF12		EF12_CA 1		
1987-91	L3 73 CID	BORE - 78mm/3.07"		
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1987-91	SB1250-59	1¼ O.D.,0.982 I.D.,0.3290 Depth,Due To Various Factory Seat Depths, This Seat May Need To Be Topped In Order To Accommodate Certain Heads
	Exh	1987-91	SB1437-65	17/16 O.D.,1.105 I.D.,0.3220 Depth,Due To Various Factory Seat Depths, This Seat May Need To Be Topped In Order To Accommodate Certain Heads
Stem Seal	Both	1987-91	122-1187	Positive Type,Viton Material,Metal Clad Style
1189cc, (1.2L), SOHC, GAS, FI, 9 Valve, Vin 7, 8, EF12		EF12-FI 2		
1990-94	L3 73 CID	BORE - 78mm/3.07"		
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1990-94	SB1250-59	1¼ O.D.,0.982 I.D.,0.3290 Depth,Due To Various Factory Seat Depths, This Seat May Need To Be Topped In Order To Accommodate Certain Heads
	Exh	1990-94	SB1437-65	17/16 O.D.,1.105 I.D.,0.3220 Depth,Due To Various Factory Seat Depths, This Seat May Need To Be Topped In Order To Accommodate Certain Heads
Stem Seal	Both	1990-94	122-1187	Positive Type,Viton Material,Metal Clad Style
1595cc, (1.6L), OHV, GAS, CARB, 8 Valve, Vin 2, 3, EA71		EA71 3		
1976-87	H4 97 CID	BORE - 92mm/3.62"		
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1976-87	SB1812-52	1 ¹³ / ₁₆ O.D.,1.440T I.D.,0.3150 Depth
	Exh	1976-87	SB1500-58	1½ O.D.,1.200T I.D.,0.3150 Depth
Guide	Both	1976-87	140-8143	0.3153 I.D.,2.260 Length,0.5145 O.D.
1781cc, (1.8L), OHV, SOHC, GAS, CARB, 8 Valve, Vin 4, 5, EA81		EA81 4		
1980-87	H4 109 CID	BORE - 92mm/3.62"		
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1980-87	SB1812-52	1 ¹³ / ₁₆ O.D.,1.440T I.D.,0.3150 Depth
	Exh	1980-87	SB1500-58	1½ O.D.,1.200T I.D.,0.3150 Depth
Guide	Both	1980-87	140-8143	0.3153 I.D.,2.260 Length,0.5145 O.D.
1781cc, (1.8L), OHV, GAS, FI, 8 Valve, Vin 5, EA81T, ""TURBO""		EA81T 5		
1983-84	H4 109 CID	BORE - 92mm/3.62"		
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1983-84	SB1812-52	1 ¹³ / ₁₆ O.D.,1.440T I.D.,0.3150 Depth
	Exh	1983-84	SB1500-58	1½ O.D.,1.200T I.D.,0.3150 Depth
Guide	Both	1983-84	140-8143	0.3153 I.D.,2.260 Length,0.5145 O.D.
1781cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin 4, 5, 7, EA82		EA82 6		
1985-89	H4 109 CID	BORE - 92mm/3.62"		
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1985-89	SB1812-52	1 ¹³ / ₁₆ O.D.,1.440T I.D.,0.3150 Depth

SUBARU / PASSENGER CAR OR TRUCK (Cont'd)

6 1781cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin 4, 5, 7, EA82 EA82
 (cont.) 1985-89 H4 109 CID BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1985-89 SB1500-58	1½ O.D.,1.200T I.D.,0.3150 Depth

7 1781cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin 4, 5, 7, EA82T, ""TURBO"" EA82T
 1985-90 H4 109 CID BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1985-90 SB1812-52	1 ¹³ / ₁₆ O.D.,1.440T I.D.,0.3150 Depth
	Exh	1985-90 SB1500-58	1½ O.D.,1.200T I.D.,0.3150 Depth
Stem Seal	Exh	1985-90 122-1187	Positive Type,Viton Material,Metal Clad Style

8 1781cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin 4, 5, EA82S EA82S
 1990-94 H4 109 CID BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1990-94 SB1812-52	1 ¹³ / ₁₆ O.D.,1.440T I.D.,0.3150 Depth
	Exh	1990-94 SB1500-58	1½ O.D.,1.200T I.D.,0.3150 Depth
Stem Seal	Exh	1990-94 122-1187	Positive Type,Viton Material,Metal Clad Style

9 1781cc, (1.8L), SOHC, GAS, FI, 16 Valve, Vin 1, 2, EJ18 EJ18E
 1993-97 H4 109 CID BORE - 87.9mm/3.46"

PART	YEARS	PART NO.	NOTES
Stem Seal	Exh	1993-97 122-1187	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1993-97 140-8203	0.2365 I.D.,2.065 Length,0.4363 O.D.,+1 O/S Available
Lifter	Both	1993-97 VL146	Hydraulic Lash Adjuster Type

10 1994cc, (2.0L), DOHC, GAS, FI, 16 Valve, EJ205, ""TURBO"" EJ205
 2002-05 H4 122 CID BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES
Valve	Int	2002-05 13201	1.417 Head Diameter
	Exh	2002-05 13203S	1.260 Head Diameter,Stellite Face
Keeper	Both	2002-05 121-1129	1 RD Bead Type
Stem Seal	Int	2002-05 122-1180	Positive Type,Viton Material,Metal Clad Style
	Exh	2002-05 122-1181	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2002-05 140-3118	0.2360 I.D.,1.556 Length,0.4360 O.D.
	Exh	2002-05 140-3119	0.2360 I.D.,1.872 Length,0.4360 O.D.

11 1995cc, (2.0L), DOHC, GAS, FI, 16 Valve, FB20B, FB20D FB20
 2012-21 H4 122 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2012-20 121-1130	1 RD Bead Type
Stem Seal	Int	2012-20 122-1429	Positive Type,Viton Material,Metal Clad Style
		2012-20 122-1430	Positive Type,Viton Material,Metal Clad Style

12 1995cc, (2.0L), DOHC, ELECTRIC/GAS, FI, 16 Valve, FB20V, ""Hybrid"" FB20V
 2019-21 H4 122 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2019-20 121-1130	1 RD Bead Type
Stem Seal	Int	2019-20 122-1429	Positive Type,Viton Material,Metal Clad Style
	Exh	2019-20 122-1430	Positive Type,Viton Material,Metal Clad Style

(Cont'd) **SUBARU / PASSENGER CAR OR TRUCK**

1995cc, (2.0L), DOHC, ELECTRIC/GAS, FI, 16 Valve, FB20X, ""Hybrid"" **FB20X 13**
2014-16 H4 122 CID BORE - 84mm/3.31""

PART	YEARS	PART NO.	NOTES
Keeper	Both 2014-15	121-1130	1 RD Bead Type
Stem Seal	Int 2014-15	122-1429	Positive Type,Viton Material,Metal Clad Style
	Exh 2014-15	122-1430	Positive Type,Viton Material,Metal Clad Style

1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin A, FA20D **FA20D 14**
2013-20 H4 122 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES
Keeper	Both 2013-20	121-1130	1 RD Bead Type
Stem Seal	Int 2013-20	122-1429	Positive Type,Viton Material,Metal Clad Style
	Exh 2013-20	122-1430	Positive Type,Viton Material,Metal Clad Style

1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, FA20F, ""TURBO"" **FA20F 15**
2014-20 H4 122 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES
Keeper	Both 2014-20	121-1130	1 RD Bead Type
Stem Seal	Int 2014-20	122-1429	Positive Type,Viton Material,Metal Clad Style
	Exh 2014-20	122-1430	Positive Type,Viton Material,Metal Clad Style

2212cc, (2.2L), SOHC, GAS, FI, 16 Valve, Vin 3, 4, 6, EJ222, EJ223, EJ22E, EJ22EZ **EJ22 16**
1990-01 H4 135 CID BORE - 96.9mm/3.82""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1990-98	SB1375-55	1 $\frac{3}{8}$ O.D.,1.120 I.D.,0.3250 Depth
	Exh 1990-98	SB1250-63	1 $\frac{1}{4}$ O.D.,0.930 I.D.,0.3250 Depth
Valve	Int 1990-98	10299	1.280 Head Diameter
	1999-01	10806	1.417 Head Diameter
	Exh 1990-98	10300	1.102 Head Diameter
	1999-01	10807	1.239 Head Diameter
Keeper	Both 1990-01	121-1129	1 RD Bead Type
Stem Seal	Int 1990-01	122-1180	Positive Type,Viton Material,Metal Clad Style
	Exh 1990-01	122-1181	Positive Type,Viton Material,Metal Clad Style
Guide	Both 1990-01	140-8203	0.2365 I.D.,2.065 Length,0.4363 O.D.,+1 O/S Available
Spring	Both 1999-01	160-1621	2.137 Length
Lifter	Both 1990-98	VL146	Hydraulic Lash Adjuster Type
Head Bolt Set	1990-01	220-1047	Torque To Yield,Services Engine

2212cc, (2.2L), SOHC, GAS, FI, 16 Valve, Vin 6, EJ22, ""TURBO"" **EJ22T 17**
1991-94 H4 135 CID BORE - 96.9mm/3.82""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1991-94	SB1375-55	1 $\frac{3}{8}$ O.D.,1.120 I.D.,0.3250 Depth
	Exh 1991-94	SB1250-63	1 $\frac{1}{4}$ O.D.,0.930 I.D.,0.3250 Depth
Valve	Int 1991-94	10299	1.280 Head Diameter
	Exh 1991-94	10300	1.102 Head Diameter
Keeper	Both 1991-94	121-1129	1 RD Bead Type
Stem Seal	Int 1991-94	122-1180	Positive Type,Viton Material,Metal Clad Style
	Exh 1991-94	122-1181	Positive Type,Viton Material,Metal Clad Style
Guide	Both 1991-94	140-8203	0.2365 I.D.,2.065 Length,0.4363 O.D.,+1 O/S Available
Lifter	Both 1991-94	VL146	Hydraulic Lash Adjuster Type
Head Bolt Set	1991-94	220-1047	Torque To Yield,Services Engine

SUBARU / PASSENGER CAR OR TRUCK (Cont'd)

18 2387cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin A, FA24, ""TURBO"" FA24
 2019-21 H4 146 CID BORE - 94mm/3.70""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2019-20	121-1130	1 RD Bead Type
Stem Seal	Int	2019-20	122-1429	Positive Type,Viton Material,Metal Clad Style
	Exh	2019-20	122-1430	Positive Type,Viton Material,Metal Clad Style

19 2458cc, (2.5L), DOHC, GAS, FI, 16 Valve, Vin 6, EJ25D EJ25D
 1996-99 H4 150 CID BORE - 99.5mm/3.92""

PART	YEARS	PART NO.	NOTES	
Valve	Int	1997-98	13139S	1.417 Head Diameter,Stellite Face,4.169 Overall Length
		1999-99	10806	1.417 Head Diameter,4.748 Overall Length
	Exh	1997-98	13140S	1.260 Head Diameter,Stellite Face,4.181 Overall Length
		1999-99	10807	1.239 Head Diameter,4.791 Overall Length
Keeper	Both	1996-99	121-1129	1 RD Bead Type
Stem Seal	Int	1996-99	122-1180	Positive Type,Viton Material,Metal Clad Style
	Exh	1996-99	122-1181	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1999-99	140-3118	0.2360 I.D., 1.556 Length,0.4360 O.D.
	Exh	1999-99	140-3119	0.2360 I.D., 1.872 Length,0.4360 O.D.
	Both	1997-98	140-8203	0.2365 I.D.,2.065 Length,0.4363 O.D.,+1 O/S Available
Spring	Both	1999-99	160-1621	2.137 Length
Head Bolt Set		1996-99	220-1110	Torque To Yield,Services Engine
Head Saver Shim		1997-99	230-2156	New Hgt. 5.0197 - 5.020; Min. Hgt. 5.008; NOTE: 2 Required

20 2458cc, (2.5L), SOHC, GAS, FI, 16 Valve, Vin 6, EJ251, EJ252, EJ253, EJ259 EJ25-SC
 1999-12 H4 150 CID BORE - 99.5mm/3.92""

PART	YEARS	PART NO.	NOTES	
Valve	Int	1999-12	10806	1.417 Head Diameter
	Exh	1999-12	10807	1.239 Head Diameter
Keeper	Both	1999-12	121-1129	1 RD Bead Type
Stem Seal	Int	1999-12	122-1180	Positive Type,Viton Material,Metal Clad Style
	Exh	1999-12	122-1181	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1999-12	140-8203	0.2365 I.D.,2.065 Length,0.4363 O.D.,+1 O/S Available
Spring	Both	1999-06	160-1621	2.137 Length
		2007-12	160-1622	2.182 Length
Head Saver Shim		1999-12	230-2156	New Hgt. 3.839; Min. Hgt. 3.835; NOTE: 2 Required

21 2458cc, (2.5L), DOHC, GAS, FI, 16 Valve, EJ255 EJ255
 2004-14 H4 150 CID BORE - 99.5mm/3.92""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2004-14	13201	1.417 Head Diameter
	Exh	2004-14	13203S	1.260 Head Diameter,Stellite Face
Keeper	Both	2004-14	121-1129	1 RD Bead Type
Stem Seal	Int	2004-14	122-1180	Positive Type,Viton Material,Metal Clad Style
	Exh	2004-14	122-1181	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2004-14	140-3118	0.2360 I.D., 1.556 Length,0.4360 O.D.
	Exh	2004-14	140-3119	0.2360 I.D., 1.872 Length,0.4360 O.D.
Head Bolt Set		2004-12	220-1110	Torque To Yield,Services Engine
Head Saver Shim		2006-13	230-2194	New Hgt. - 5.020; Min. Hgt. - 5.008

(Cont'd) **SUBARU / PASSENGER CAR OR TRUCK**

2458cc, (2.5L), DOHC, GAS, FI, 16 Valve, EJ257, ""TURBO"" EJ257 **22**
2004-19 H4 150 CID BORE - 99.5mm/3.92""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2004-19	13201	1.417 Head Diameter
	Exh	2004-19	13203S	1.260 Head Diameter,Stellite Face
Keeper	Both	2004-19	121-1129	1 RD Bead Type
Stem Seal	Int	2004-19	122-1180	Positive Type,Viton Material,Metal Clad Style
	Exh	2004-19	122-1181	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2004-19	140-3118	0.2360 I.D.,1.556 Length,0.4360 O.D.
	Exh	2004-19	140-3119	0.2360 I.D.,1.872 Length,0.4360 O.D.
Head Saver Shim		2006-19	230-2194	New Hgt. - 5.020; Min. Hgt. - 5.008

2498cc, (2.5L), DOHC, GAS, FI, 16 Valve, FB25BA FB25BA **23**
2011-18 H4 152 CID BORE - 94mm/3.70""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2011-18	121-1130	1 RD Bead Type
Stem Seal	Int	2011-18	122-1429	Positive Type,Viton Material,Metal Clad Style
	Exh	2011-18	122-1430	Positive Type,Viton Material,Metal Clad Style

2498cc, (2.5L), DOHC, GAS, FI, 16 Valve, FB25BC FB25BC **24**
2011-13 H4 152 CID BORE - 94mm/3.70""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2011-15	121-1130	1 RD Bead Type
Stem Seal	Int	2011-15	122-1429	Positive Type,Viton Material,Metal Clad Style
	Exh	2011-15	122-1430	Positive Type,Viton Material,Metal Clad Style

2498cc, (2.5L), DOHC, GAS, FI, 16 Valve, FB25 FB25 **25**
2013-19 H4 152 CID BORE - 94mm/3.70""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2013-19	121-1130	1 RD Bead Type
Stem Seal	Int	2013-19	122-1429	Positive Type,Viton Material,Metal Clad Style
	Exh	2013-19	122-1430	Positive Type,Viton Material,Metal Clad Style

2672cc, (2.7L), SOHC, GAS, FI, 12 Valve, Vin 8, 9, ER27 ER27 **26**
1988-91 H6 163 CID BORE - 92mm/3.62""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-91	SB1812-52	1 ³ / ₁₆ O.D.,1.440T I.D.,0.3150 Depth
	Exh	1988-91	SB1500-58	1 ¹ / ₂ O.D.,1.200T I.D.,0.3150 Depth
Stem Seal	Both	1988-91	122-1187	Positive Type,Viton Material,Metal Clad Style

3000cc, (3.0L), DOHC, GAS, FI, 24 Valve, EZ30D EZ30D **27**
2001-09 H6 183 CID BORE - 89.2mm/3.51""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2001-04	13257	1.378 Head Diameter
		2005-09	13259	1.378 Head Diameter
	Exh	2001-04	13258	1.201 Head Diameter
		2005-09	13260	1.201 Head Diameter
Keeper	Both	2001-09	121-1130	1 RD Bead Type
Stem Seal	Int	2005-09	122-1429	Positive Type,Viton Material,Metal Clad Style
	Exh	2005-09	122-1430	Positive Type,Viton Material,Metal Clad Style
	Both	2001-04	122-1428	Positive Type,Viton Material,Metal Clad Style

SUBARU / PASSENGER CAR OR TRUCK (Cont'd)

28 3318cc, (3.3L), DOHC, GAS, FI, 24 Valve, Vin 3, 8, EG33D EG33D
 1992-97 H6 202 CID BORE - 96.9mm/3.82"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Int	1992-97	122-1180	Positive Type,Viton Material,Metal Clad Style
	Exh	1992-97	122-1181	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1992-97	140-8564	0.2365 I.D.,1.280 Length,0.4365 O.D.
	Exh	1992-97	140-8565	0.2365 I.D.,1.595 Length,0.4365 O.D.

29 3630cc, (3.6L), DOHC, GAS, FI, 24 Valve, EZ36D EZ36D
 2008-19 H6 222 CID BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2008-19	13261	1.417 Head Diameter
	Exh	2008-19	13262	1.260 Head Diameter
Keeper	Both	2008-19	121-1130	1 RD Bead Type
Stem Seal	Int	2008-19	122-1429	Positive Type,Viton Material,Metal Clad Style
	Exh	2008-19	122-1430	Positive Type,Viton Material,Metal Clad Style

SUPERIOR / HEAVY DUTY

Engine Models Line No.

8 Cylinder

6597 C.I., (108.1L), G825, Natural Gas, OHV, 16 Valve,
 ""Naturally Aspirated"" 1

1 6597 C.I., (108.1L), G825, Natural Gas, OHV, 16 Valve, ""Naturally Aspirated"" G825
 L8 6597 CID BORE - 254.0mm/10.0"

PART	PART NO.	NOTES	
Guide	Both	140-6479	0.8745 I.D.,6.125 Length,1.3763 O.D.,1.3763 O.D.
		140-6929	0.8745 I.D.,6.125 Length,1.3778 O.D.,Same as 140-6479, but with +.0015 O.D.

SUZUKI / PASSENGER CAR OR TRUCK

Engine Models Line No.

4 Cylinder

1298cc, (1.3L), DOHC, GAS, FI, 16 Valve, G13K (1989-94) .	Swift	.....	1
1298cc, (1.3L), SOHC, GAS, FI, 8 Valve, G13A (1989-97) . . .	Samurai, Swift	.....	2
1298cc, (1.3L), SOHC, GAS, FI, 8 Valve, G13BA (1990-95) . .	Samurai, Swift	.....	3
1298cc, (1.3L), SOHC, GAS, FI, 16 Valve, G13BB (1998-01)	Swift	.....	4
1325cc, (1.3L), SOHC, GAS, CARB, 8 Valve, G13A (1986-89)	Samurai, Sidekick	.....	5
1590cc, (1.6L), SOHC, GAS, FI, 8 Valve, G16KC (1989-95) . .	Sidekick	.....	6
1590cc, (1.6L), SOHC, GAS, FI, 16 Valve, Vin 0, 1, 3, G16KV (1992-98)	Esteem, Sidekick, X-90	.....	7
1590cc, (1.6L), SOHC, GAS, FI, 16 Valve, G16S (1995-02) . .	Esteem, Sidekick, Vitara, X-90	.....	8
1840cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 2, 4, J18A (1996-02)	Esteem, Sidekick	.....	9
1995cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 5, J20B (2007-13)	SX4, SX4 Crossover	.....	10
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin Z, ""GM E-TEC II"" (2004-08)	Forenza, Reno	.....	11
2000cc, (2.0L), DOHC, GAS, FI, 16 Valve, J20A (1999-03) . .	Aerio, Vitara	.....	12
2290cc, (2.3L), DOHC, GAS, FI, 16 Valve, J23A (2004-07) . .	Aerio	.....	13

(Cont'd) **SUZUKI / PASSENGER CAR OR TRUCK**

Engine	Models	Line No.
4 Cylinder		
2393cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin 0, 9, J24B (2009-13)	Grand Vitara, Kizashi	14
2500cc, (2.5L), DOHC, GAS, FI, 16 Valve, QR25DE, ""Nissan"" (2009-12)	Equator	16
6 Cylinder		
2500cc, (2.5L), DOHC, GAS, FI, 24 Valve, H25A (2001-05)	Grand Vitara, Vitara	15
2737cc, (2.7L), DOHC, GAS, FI, 24 Valve, H27A (2001-08)	Grand Vitara, XL-7	17
3195cc, (3.2L), DOHC, GAS, FI, 24 Valve, Vin 1, N32A (2009-10)	Grand Vitara	18
3564cc, (3.6L), DOHC, GAS, FI, 24 Valve, N36A (2007-09)	XL-7	19
3954cc, (4.0L), DOHC, GAS, FI, 24 Valve, VQ40DE, ""Nissan"" (2009-12)	Equator	20

1298cc, (1.3L), DOHC, GAS, FI, 16 Valve, G13K **G13K 1**
1989-94 L4 79 CID BORE - 74mm/2.91""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1989-94	SB1187-52	1 $\frac{1}{16}$ O.D.,0.934T I.D.,0.2570 Depth
Stem Seal	Both 1989-94	122-1155	Positive Type,Viton Material,Metal Clad Style
Guide	Both 1989-94	140-8144	0.2170 I.D.,1.690 Length,0.4365 O.D.
Lifter	Both 1989-94	VL120	Hydraulic Bucket Type
Head Saver Shim	1989-94	230-2031	Min. Hgt.- 5.1750

1298cc, (1.3L), SOHC, GAS, FI, 8 Valve, G13A **G13A-FI 2**
1989-97 L4 79 CID BORE - 74mm/2.91""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1989-97	SB1562-77	1 $\frac{1}{16}$ O.D.,1.170 I.D.,0.2670 Depth
	Exh 1989-97	SB1375-64	1 $\frac{3}{8}$ O.D.,1.000 I.D.,0.2800 Depth
Valve	Int 1989-97	10103	1.417 Head Diameter
	Exh 1989-97	10302	1.181 Head Diameter
Keeper	Both 1989-97	121-1061	1 RD Bead Type,W/ .273 Stem Dia.
Stem Seal	Both 1989-97	122-1142	Positive Type,Viton Material,Metal Clad Style
Guide	Both 1989-97	140-8016	0.2757 I.D.,1.895 Length,0.4758 O.D.
Spring	Both 1989-97	160-1318	1.958 Length
Head Saver Shim	1989-97	230-2031	New Hgt.- 3.7500 - 3.7550; Min. Hgt.- 3.7400

1298cc, (1.3L), SOHC, GAS, FI, 8 Valve, G13BA **G13BA 3**
1990-95 L4 79 CID BORE - 74mm/2.91""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1990-95	SB1562-77	1 $\frac{1}{16}$ O.D.,1.170 I.D.,0.2670 Depth
	Exh 1990-95	SB1375-64	1 $\frac{3}{8}$ O.D.,1.000 I.D.,0.2800 Depth
Valve	Int 1990-95	10103	1.417 Head Diameter
	Exh 1990-95	10302	1.181 Head Diameter
Keeper	Both 1990-95	121-1061	1 RD Bead Type,W/ .273 Stem Dia.
Stem Seal	Both 1990-95	122-1142	Positive Type,Viton Material,Metal Clad Style
Guide	Both 1990-95	140-8016	0.2757 I.D.,1.895 Length,0.4758 O.D.
Spring	Both 1990-95	160-1318	1.958 Length

SUZUKI / PASSENGER CAR OR TRUCK (Cont'd)

4 1298cc, (1.3L), SOHC, GAS, FI, 16 Valve, G13BB G13BB
 1998-01 L4 79 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1998-01	10516	1.149 Head Diameter
	Exh	1998-01	10517	0.986 Head Diameter
Keeper	Both	1998-01	121-1060	1 RD Bead Type
Stem Seal	Both	1998-01	122-1155	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1998-01	140-8324	0.2163 I.D.,1.260 Length,0.4365 O.D.

5 1325cc, (1.3L), SOHC, GAS, CARB, 8 Valve, G13A G13A-CA
 1986-89 L4 81 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1986-89	SB1562-77	1 ¹ / ₁₆ O.D.,1.170 I.D.,0.2670 Depth
	Exh	1986-89	SB1375-64	1 ³ / ₈ O.D.,1.000 I.D.,0.2800 Depth
Valve	Int	1986-89	10103	1.417 Head Diameter
	Exh	1986-89	10302	1.181 Head Diameter
Keeper	Both	1986-89	121-1061	1 RD Bead Type,W/ .273 Stem Dia.
Stem Seal	Both	1986-89	122-1142	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1986-89	140-8016	0.2757 I.D.,1.895 Length,0.4758 O.D.
Spring	Both	1989-89	160-1318	1.958 Length
Head Saver Shim		1986-89	230-2031	New Hgt.- 3.7500 - 3.7550; Min. Hgt.- 3.7400

6 1590cc, (1.6L), SOHC, GAS, FI, 8 Valve, G16KC G16KC
 1989-95 L4 97 CID BORE - 75.2mm/2.96"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1989-95	SB1500-79	1 ¹ / ₂ O.D.,1.295 I.D.,0.2620 Depth
	Exh	1989-95	SB1375-56	1 ³ / ₈ O.D.,1.102 I.D.,0.2600 Depth
Valve	Int	1989-95	10172	1.441 Head Diameter
Keeper	Both	1989-95	121-1061	1 RD Bead Type,W/ .273 Stem Dia.
Stem Seal	Both	1989-95	122-1142	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1989-95	140-8016	0.2757 I.D.,1.895 Length,0.4758 O.D.
Spring	Both	1989-95	160-1318	1.958 Length
Head Saver Shim		1989-95	230-2032	New Hgt.- 3.7500; Min. Hgt.- 3.7400

7 1590cc, (1.6L), SOHC, GAS, FI, 16 Valve, Vin 0, 1, 3, G16KV G16KV
 1992-98 L4 97 CID BORE - 75.2mm/2.96"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1992-98	SB1250-54	1 ¹ / ₄ O.D.,1.010T I.D.,0.2570 Depth
	Exh	1992-98	SB1062-50	1 ¹ / ₁₆ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int	1992-98	10516	1.149 Head Diameter
	Exh	1992-98	10517	0.986 Head Diameter
Keeper	Both	1992-98	121-1060	1 RD Bead Type
Stem Seal	Both	1992-98	122-1155	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1992-98	140-8324	0.2163 I.D.,1.260 Length,0.4365 O.D.
Head Saver Shim		1992-98	230-2032	New Hgt.- 4.7250; Min. Hgt.- 4.7150

8 1590cc, (1.6L), SOHC, GAS, FI, 16 Valve, G16S G16S
 1995-02 L4 97 CID BORE - 75.2mm/2.96"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1995-02	SB1250-54	1 ¹ / ₄ O.D.,1.010T I.D.,0.2570 Depth
	Exh	1995-02	SB1062-50	1 ¹ / ₁₆ O.D.,0.790 I.D.,0.2540 Depth

(Cont'd) **SUZUKI / PASSENGER CAR OR TRUCK**

1590cc, (1.6L), SOHC, GAS, FI, 16 Valve, G16S **G16S 8**
1995-02 L4 97 CID **BORE - 75.2mm/2.96"** (cont.)

PART		YEARS	PART NO.	NOTES
Valve	Int	1995-02	10516	1.149 Head Diameter
	Exh	1995-02	10517	0.986 Head Diameter
Keeper	Both	1995-02	121-1060	1 RD Bead Type
Stem Seal	Both	1995-02	122-1155	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1995-02	140-8324	0.2163 I.D.,1.260 Length,0.4365 O.D.

1840cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 2, 4, J18A **J18A 9**
1996-02 L4 112 CID **BORE - 78mm/3.07"**, 84mm/3.31"

PART		YEARS	PART NO.	NOTES
Valve	Int	1996-02	10786	1.297 Head Diameter
	Exh	1996-02	10787S	1.102 Head Diameter,Stellite Face
Keeper	Both	1996-02	121-1099	1 RD Bead Type
Stem Seal	Both	1996-02	122-1246	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1996-02	140-3127	0.2365 I.D.,1.380 Length,0.4367 O.D.,W/ Counterbore
Lifter	Both	1996-02	VL120	Hydraulic Bucket Type
Head Saver Shim		1996-02	230-2159	New Hgt. 4.805; Min. Hgt. N/A

1995cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 5, J20B **J20B 10**
2007-13 L4 122 CID **BORE - 84mm/3.31"**

PART		YEARS	PART NO.	NOTES
Valve	Int	2007-09	13197	1.299 Head Diameter
	Exh	2007-09	13198	1.102 Head Diameter
Keeper	Both	2007-09	121-1099	1 RD Bead Type,W/6mm Stem
		2010-13	121-1060	1 RD Bead Type,W/5.5mm Stem
Stem Seal	Both	2007-09	122-1246	Positive Type,Viton Material,Metal Clad Style,W/6mm Stem
		2010-13	122-1155	Positive Type,Viton Material,Metal Clad Style,W/5.5mm Stem
Head Saver Shim		2007-09	230-2159	New Hgt. N/A; Min. Hgt. N/A

1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin Z , ""GM E-TEC II"" **SUZ2.0-ETEC 11**
2004-08 L4 122 CID **BORE - 86.4mm/3.40"**

PART		YEARS	PART NO.	NOTES
Valve	Int	2004-08	10784	1.260 Head Diameter
	Exh	2004-08	02040S	1.142 Head Diameter,Recommended OEM Nickel Base Inconel Material, Stellite Face
		2004-08	22040S	1.142 Head Diameter,Alternative Austenitic Material, Stellite Face
Keeper	Both	2004-08	121-1098	3 RD Bead Type
Stem Seal	Both	2004-08	122-1329	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2004-08	140-3010	0.2362 I.D.,1.773 Length,0.3950 O.D.
	Exh	2004-08	140-3011	0.2362 I.D.,1.378 Length,0.3950 O.D.
Head Saver Shim		2004-08	230-2151	New Hgt. 5.2746-5.2766; Min. Hgt. 5.2716

2000cc, (2.0L), DOHC, GAS, FI, 16 Valve, J20A **J20A 12**
1999-03 L4 122 CID **BORE - 84.1mm/3.31"**

PART		YEARS	PART NO.	NOTES
Valve	Int	1999-03	10786	1.297 Head Diameter
	Exh	1999-03	10787S	1.102 Head Diameter,Stellite Face
Keeper	Both	1999-03	121-1099	1 RD Bead Type
Stem Seal	Both	1999-03	122-1246	Positive Type,Viton Material,Metal Clad Style

SUZUKI / PASSENGER CAR OR TRUCK (Cont'd)

12 2000cc, (2.0L), DOHC, GAS, FI, 16 Valve, J20A J20A
 (cont.) 1999-03 L4 122 CID BORE - 84.1mm/3.31"

PART	YEARS	PART NO.	NOTES
Guide	Both	1999-03 140-3127	0.2365 I.D., 1.380 Length, 0.4367 O.D., W/ Counterbore
Lifter	Both	1999-03 VL120	Hydraulic Bucket Type
Head Saver Shim	1999-03	230-2159	New Hgt. 4.798-4.800; Min. Hgt. N/A

13 2290cc, (2.3L), DOHC, GAS, FI, 16 Valve, J23A J23A
 2004-07 L4 140 CID BORE - 90mm/3.54"

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2004-07 13276 2004-07 13277	1.375 Head Diameter 1.181 Head Diameter
Keeper	Both	2004-07 121-1099	1 RD Bead Type
Stem Seal	Both	2004-07 122-1246	Positive Type, Viton Material, Metal Clad Style
Lifter	Both	2004-07 VL120	Hydraulic Bucket Type

14 2393cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin 0, 9, J24B J24B
 2009-13 L4 146 CID BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2009-13 121-1060	1 RD Bead Type
Stem Seal	Both	2009-13 122-1155	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2009-13 140-3128	0.2165 I.D., 1.580 Length, 0.4170 O.D., W/ Counterbore

15 2500cc, (2.5L), DOHC, GAS, FI, 24 Valve, H25A H25A
 2001-05 V6 153 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2001-05 10786 2001-05 10787S	1.297 Head Diameter 1.102 Head Diameter, Stellite Face
Keeper	Both	2001-05 121-1099	1 RD Bead Type
Stem Seal	Both	2001-05 122-1246	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2001-05 140-3127	0.2365 I.D., 1.380 Length, 0.4367 O.D., W/ Counterbore
Lifter	Both	2001-05 VL120	Hydraulic Bucket Type

16 2500cc, (2.5L), DOHC, GAS, FI, 16 Valve, QR25DE, ""Nissan"" SUZ-QR25DE
 2009-12 L4 153 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2009-12 13077 2009-12 13078	1.405 Head Diameter 1.206 Head Diameter
Keeper	Both	2009-12 121-1064	1 RD Bead Type
Stem Seal	Both	2009-12 122-1150	Positive Type, Viton Material, Metal Clad Style
Guide	Int Exh	2009-12 140-8216 2009-12 140-8217	0.2365 I.D., 1.690 Length, 0.3955 O.D., Tapered Port End 0.2365 I.D., 1.690 Length, 0.3953 O.D., Plain Port End
Spring	Int Exh	2009-12 160-1590 2009-12 160-1591	1.694 Length 1.754 Length
Head Saver Shim	2009-12	230-2139	New Hgt. - 5.095 - 5.100; Min. Hgt. - 5.085

17 2737cc, (2.7L), DOHC, GAS, FI, 24 Valve, H27A H27A
 2001-08 V6 167 CID BORE - 89mm/3.46"

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2001-05 10786 2006-08 13197 2001-05 10787S	1.297 Head Diameter, NOTE: W/ 3.394 Length 1.299 Head Diameter, NOTE: W/ 3.685 Length 1.102 Head Diameter, Stellite Face, NOTE: W/ 3.379 Length

(Cont'd) **SUZUKI / PASSENGER CAR OR TRUCK**

2737cc, (2.7L), DOHC, GAS, FI, 24 Valve, H27A
2001-08 V6 167 CID

H27A **17**
BORE - 89mm/3.46"" (cont.)

PART	YEARS	PART NO.	NOTES
Valve	Exh 2006-08	13198	1.102 Head Diameter,NOTE: W/ 3.673 Length
Keeper	Both 2001-08	121-1099	1 RD Bead Type
Stem Seal	Both 2001-08	122-1246	Positive Type,Viton Material,Metal Clad Style
Guide	Both 2001-08	140-3127	0.2365 I.D.,1.380 Length,0.4367 O.D.,W/ Counterbore
Lifter	Both 2001-05	VL120	Hydraulic Bucket Type

3195cc, (3.2L), DOHC, GAS, FI, 24 Valve, Vin 1, N32A
2009-10 V6 195 CID

N32A **18**
BORE - 89mm/3.46""

PART	YEARS	PART NO.	NOTES
Valve	Int 2009-10 Exh 2009-10	13204 13205	1.386 Head Diameter 1.205 Head Diameter
Keeper	Both 2009-10	121-1127	1 RD Bead Type
Stem Seal	Both 2009-10	122-1418	Positive Type,Viton Material,Top Hat Style
Guide	Both 2009-10	140-3112	0.2365 I.D.,1.655 Length,0.4358 O.D.
Spring	Both 2009-10	160-1588	1.729 Length,Conical
Lifter	Both 2009-10	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both 2009-10	180-1323	Cam Follower

3564cc, (3.6L), DOHC, GAS, FI, 24 Valve, N36A
2007-09 V6 220 CID

N36A **19**
BORE - 94mm/3.70""

PART	YEARS	PART NO.	NOTES
Valve	Int 2007-09 Exh 2007-09	13210 13205	1.457 Head Diameter 1.205 Head Diameter
Keeper	Both 2007-09	121-1127	1 RD Bead Type
Stem Seal	Both 2007-09	122-1418	Positive Type,Viton Material,Top Hat Style
Guide	Both 2007-09	140-3112	0.2365 I.D.,1.655 Length,0.4358 O.D.
Spring	Both 2007-09	160-1588	1.729 Length,Conical
Lifter	Both 2007-09	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both 2007-09	180-1323	Cam Follower

3954cc, (4.0L), DOHC, GAS, FI, 24 Valve, VQ40DE, ""Nissan""
2009-12 V6 241 CID

SUZ-VQ40DE **20**
BORE - 95.5mm/3.76""

PART	YEARS	PART NO.	NOTES
Valve	Int 2009-12 Exh 2009-12	13237 13238	1.463 Head Diameter,3.798 O/A Length 1.234 Head Diameter,3.700 O/A Length
Keeper	Both 2009-12	121-1064	1 RD Bead Type
Stem Seal	Both 2009-12	122-1150	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2009-12 Exh 2009-12	140-8216 140-8217	0.2365 I.D.,1.690 Length,0.3955 O.D.,Tapered Port End 0.2365 I.D.,1.690 Length,0.3953 O.D.,Plain Port End

THERMO KING / HEAVY DUTY

Engine	Models	Line No.
4 Cylinder		
1983cc, (2.0L), C201, Diesel, OHV, 8 Valve	Industrial	1
2098cc, (2.1L), TK486, Diesel, OHV, 8 Valve, ""Yanmar 4 Stroke Water Cooled""		2

THERMO KING / HEAVY DUTY (Cont'd)

Engine	Models	Line No.
4 Cylinder		
2098cc, (2.1L), TK486V, Diesel, OHV, 8 Valve, ""Yanmar 4 Stroke Water Cooled""		3

1 1983cc, (2.0L), C201, Diesel, OHV, 8 Valve **C201**
 L4 121 CID **BORE - 83mm/3.268""**

PART	PART NO.	NOTES
Valve	Int 10214	1.496 Head Diameter, OEM # 112727
	Exh 10215S	1.260 Head Diameter, Stellite Face, OEM # 112719

2 2098cc, (2.1L), TK486, Diesel, OHV, 8 Valve, ""Yanmar 4 Stroke Water Cooled"" **TK486**
 L4 126 CID **BORE - 86mm/3.386""**

PART	PART NO.	NOTES
Valve	Int 13415	1.378 Head Diameter, OEM # 129100-11100
	Exh 13416	1.181 Head Diameter, OEM # 129100-11130
Keeper	Both 121-1138	1 SQ Bead Type, OEM # 27310-080001
Stem Seal	Int 122-1483	Positive Type, Viton Material, Metal Clad Style, OEM # 124460-11340
	Exh 122-1484	Positive Type, Viton Material, Metal Clad Style, OEM # 121400-11340
Guide	Int 140-3190	0.3158 I.D., 1.930 Length, 0.5128 O.D., OEM # 120130-11860
	Exh 140-3191	0.3158 I.D., 1.810 Length, 0.5128 O.D., OEM # 129150-11810
Spring	Both 160-1665	1.760 Length, OEM # 129795-11120

3 2098cc, (2.1L), TK486V, Diesel, OHV, 8 Valve, ""Yanmar 4 Stroke Water Cooled"" **TK486V**
 L4 126 CID **BORE - 83mm/3.386""**

PART	PART NO.	NOTES
Valve	Int 13414	1.417 Head Diameter, OEM # 129004-11130
	Exh 13416	1.181 Head Diameter, OEM # 129100-11130
Keeper	Both 121-1138	1 SQ Bead Type, OEM # 27310-080001
Stem Seal	Int 122-1483	Positive Type, Viton Material, Metal Clad Style, OEM # 124460-11340
	Exh 122-1484	Positive Type, Viton Material, Metal Clad Style, OEM # 121400-11340
Guide	Int 140-3190	0.3158 I.D., 1.930 Length, 0.5128 O.D., OEM # 120130-11860
	Exh 140-3191	0.3158 I.D., 1.810 Length, 0.5128 O.D., OEM # 129150-11810
Spring	Both 160-1665	1.760 Length, OEM # 129795-11120

TOYOTA / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
1166cc, (1.2L), OHV, GAS, CARB, 8 Valve, Vin K, 3K-C (1969-79)	Corolla	1
1290cc, (1.3L), OHV, GAS, CARB, 8 Valve, Vin K, 4K-C (1981-82)	Starlet	2
1290cc, (1.3L), OHV, GAS, FI, 8 Valve, Vin K, 4K-E (1983-84)	Starlet	3
1452cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin A, 1A-C (1980-80)	Tercel	4
1452cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin A, 3A-C (1981-88)	Tercel	5
1456cc, (1.5L), SOHC, GAS, CARB, 12 Valve, Vin E, 3E (1987-90)	Tercel	6
1456cc, (1.5L), SOHC, GAS, FI, 12 Valve, Vin E, 3E-E (1990-94)	Tercel	7

(Cont'd) TOYOTA / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
1496cc, (1.5L), DOHC, GAS, FI, 16 Valve, P5, ""Mazda SKYACTIV"" (2016-20)	Yaris, Yaris iA	8
1497cc, (1.5L), DOHC, GAS, FI, 16 Valve, Vin C, E, 5E-FE (1992-99)	Paseo, Tercel	9
1497cc, (1.5L), DOHC, GAS, FI, 16 Valve, 1NZ-FE (2000-19)	Echo, Yaris	10
1497cc, (1.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, 1NZ-FXE, ""Hybrid"" (2001-19)	Prius, Prius C	11
1587cc, (1.6L), SOHC, GAS, CARB, 8 Valve, Vin A, 4A-C (1983-87)	Corolla	12
1587cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin A, 4A-GE (1988-91)	Corolla	13
1587cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin A, 4A-GEC (1986-87)	Corolla	14
1587cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin A, 4A-GELC (1987-89)	Corolla, MR2	15
1587cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin A, 4A-GZE, ""Supercharged"" (1988-89)	MR2 Supercharged	16
1587cc, (1.6L), DOHC, GAS, CARB, 16 Valve, Vin A, 4A-F (1988-89)	Corolla	17
1587cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin A, 4A-FE (1988-97)	Celica, Corolla	18
1587cc, (1.6L), SOHC, GAS, CARB, 8 Valve, Vin A, 4A-LC (1986-88)	Corolla	19
1588cc, (1.6L), OHV, GAS, CARB, 8 Valve, Vin T, 2T-C (1971-79)	Carina, Corolla	20
1762cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin A, B, 7A-FE (1993-97)	Celica, Corolla	21
1770cc, (1.8L), OHV, GAS, CARB, 8 Valve, Vin T, 3T-C (1980-82)	Corolla	22
1794cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin R, 1ZZ-FE (1998-08)	Celica, Corolla, Matrix, MR2 Spyder	23
1795cc, (1.8L), DOHC, GAS, FI, 16 Valve 2ZZ-GE (2000-06)	Celica, Corolla, Matrix	24
1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin K, L, U, 2ZR-FE (2009-19)	Corolla, Matrix	25
1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin P, 2ZR-FAE (2014-21)	Corolla, Corolla iM	26
1798cc, (1.8L), DOHC, ELECTRIC/GAS, FI, 16 Valve, 2ZR-FXE, ""Hybrid"" (2010-21)	Corolla, Prius, Prius AWD-e, Prius Plug-In, Prius Prime, Prius V	27
1839cc, (1.8L), SOHC, DIESEL, FI, 8 Valve, Vin C, 1C-TLC, ""TURBO"" (1984-85)	Camry Turbo Diesel	28
1968cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin R, 18R-C (1972-74)	Celica, Corona, Hi-Lux, Mark II, Pickup	29
1987cc, (2.0L), DOHC, GAS, FI, 16 Valve, 3ZR-FAE (2018-21)	C-HR	30
1995cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin S, 2S-ELC (1983-86)	Camry, Celica	31
1998cc, (2.0L), OHV, GAS, FI, 8 Valve, Vin Y, 3Y-EC (1984-85)	Van	32
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin S, 3SF-E, ""Car"" (1987-91)	Camry, Celica	33

TOYOTA / PASSENGER CAR OR TRUCK (Cont'd)

Engine	Models	Line No.
4 Cylinder		
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin P, 3SF-E, ""Truck"" (1996-00)	RAV4	34
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin S, 3SG-ELC (1986-89)	Celica	35
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin S, 3SG-TE, ""TURBO"" (1988-95)	Celica, MR2	36
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, 1AZ-FE (2001-03)	RAV4	37
2164cc, (2.2L), DOHC, GAS, FI, 16 Valve, Vin G, S, 5SF-E (1990-01)	Camry, Celica, MR2, Solara	38
2188cc, (2.2L), SOHC, DIESEL, FI, 8 Valve, Vin L (1981-83)	Pickup Diesel	39
2189cc, (2.2L), SOHC, GAS, CARB, 8 Valve, Vin R, 20R (1975-80)	Celica, Corona, Pickup	40
2237cc, (2.2L), OHV, GAS, FI, 8 Valve, Vin Y, 4Y-EC (1986-89)	Van	41
2362cc, (2.4L), DOHC, GAS, FI, 16 Valve, 2AZ-FE (2001-13)	Camry, Corolla, Highlander, Matrix, RAV4, Solara	43
2362cc, (2.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin B, 2AZ-FXE (2007-11)	Camry	44
2366cc, (2.4L), SOHC, GAS, CARB, 8 Valve, Vin R, 22R (1981-90)	4Runner, Celica, Corona, Pickup	45
2366cc, (2.4L), SOHC, GAS, FI, 8 Valve, Vin R, 22R-E (1989-95)	4Runner, Pickup	46
2366cc, (2.4L), SOHC, GAS, FI, 8 Valve, Vin R, 22R-EC (1986-89)	4Runner, Pickup	47
2366cc, (2.4L), SOHC, GAS, FI, 8 Valve, Vin R, 22R-TEC, ""TURBO"" (1986-88)	4Runner Turbo, Pickup Turbo	48
2438cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin A, 2TZ-FE (1991-95)	Previa	49
2438cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin A, K, 2TZ-FZE, ""Supercharged"" (1994-97)	Previa	50
2438cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin L, U, 2RZ-FE (1995-04)	Tacoma	51
2446cc, (2.4L), SOHC, DIESEL, FI, 8 Valve, Vin H, L, 2L (1984-87)	Land Cruiser, Pickup	52
2487cc, (2.5L), DOHC, GAS, FI, 16 Valve, A25A-FKS (2018-21)	Camry, RAV4	53
2487cc, (2.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, A25A-FXS, ""Hybrid"" (2018-21)	Avalon, Camry, Highlander, RAV4, RAV4 Prime, Venza	54
2494cc, (2.5L), DOHC, GAS, FI, 16 Valve, 2AR-FE (2009-18)	RAV4	55
2494cc, (2.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin D, 2AR-FXE, ""Hybrid"" (2012-18)	Avalon, Camry, RAV4	56
2672cc, (2.7L), DOHC, GAS, FI, 16 Valve, 1AR-FE (2009-19)	Highlander, Venza	60
2694cc, (2.7L), DOHC, GAS, FI, 16 Valve, Vin X, 2TR-FE (2005-21)	4Runner, Tacoma	61
2694cc, (2.7L), DOHC, GAS, FI, 16 Valve, Vin M, U, 3RZ-FE (1994-04)	4Runner, T100, Tacoma	62
6 Cylinder		
2253cc, (2.3L), SOHC, GAS, CARB, 12 Valve, Vin R, 2M (1968-72)	Corona, Crown, Mark II	42
2508cc, (2.5L), DOHC, GAS, FI, 24 Valve, Vin V, 2VZ-FE (1988-91)	Camry	57

(Cont'd) TOYOTA / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
6 Cylinder		
2563cc, (2.6L), SOHC, GAS, CARB, 12 Valve, Vin M, 4M (1971-79)	Corona, Cressida, Crown, Mark II	58
2563cc, (2.6L), SOHC, GAS, FI, 12 Valve, Vin M, 4M-E (1979-80)	Celica, Cressida	59
2759cc, (2.8L), SOHC, GAS, FI, 12 Valve, Vin M, 5M-E (1981-82)	Celica, Cressida	63
2754cc, (2.8L), DOHC, GAS, FI, 12 Valve, Vin M, 5M-GE (1982-88)	Celica, Cressida	64
2954cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin M, 7MG-E (1987-92)	Cressida, Supra	65
2954cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin M, 7MG-TE, ""TURBO"" (1987-92)	Supra Twin Turbo	66
2959cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin V, 3VZ-E (1988-95)	4Runner, Pickup, T100	67
2959cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin V, 3VZ-FE (1992-93)	Camry	68
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin F, G, 1MZ-FE (1994-06)	Avalon, Camry, Highlander, Sienna, Solara	69
2997cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin D, J, 2JZ-GE (1994-98)	Supra	70
2997cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin E, J, 2JZ-GTE, ""TURBO"" (1994-98)	Supra Turbo	71
3310cc, (3.3L), DOHC, ELECTRIC/GAS, GAS, FI, 24 Valve, 3MZ-FE (2004-10)	Camry, Highlander, Sienna, Solara	72
3378cc, (3.4L), DOHC, GAS, FI, 24 Valve, Vin N, 5VZ-FE (1995-04)	4Runner, T100, Tacoma, Tundra	73
3456cc, (3.5L), DOHC, GAS, FI, 24 Valve, 2GR-FE (2005-18) (2016-21)	Avalon, Camry	74
3456cc, (3.5L), DOHC, GAS, FI, 24 Valve, 2GR-FKS (2016-21)	Avalon, Camry, Highlander, Sienna, Tacoma	75
3456cc, (3.5L), DOHC, ELECTRIC/GAS, FI, 24 Valve, 2GR-FXE, ""Hybrid"" (2011-16)	Highlander	76
3456cc, (3.5L), DOHC, ELECTRIC/GAS, FI, 24 Valve, 2GR-FXS, ""Hybrid"" (2017-19)	Highlander	77
3878cc, (3.9L), OHV, GAS, CARB, 12 Valve, F, FJ (1960-74)	Land Cruiser	78
3956cc, (4.0L), OHV, GAS, FI, 12 Valve, Vin F, 3F-E (1988-92)	Land Cruiser	79
3956cc, (4.0L), DOHC, GAS, FI, 24 Valve, 1GR-FE (2003-21)	4Runner, FJ Cruiser, Tacoma, Tundra	80
4227cc, (4.2L), OHV, GAS, CARB, 12 Valve, Vin F, 2F (1975-87)	Land Cruiser	81
4477cc, (4.5L), DOHC, GAS, FI, 24 Valve, Vin D, J, 1FZ-FE (1993-97)	Land Cruiser	82
8 Cylinder		
4608cc, (4.6L), DOHC, GAS, FI, 32 Valve, 1UR-FE (2010-19)	Sequoia, Tundra	83
4663cc, (4.7L), DOHC, GAS, FI, 32 Valve, 2UZ-FE (1998-09)	4Runner, Land Cruiser, Sequoia, Tundra	84
5663cc, (5.7L), DOHC, GAS, FI, 32 Valve, 3UR-FE (2007-21)	Land Cruiser, Sequoia, Tundra	85
5663cc, (5.7L), DOHC, FLEX, FI, 32 Valve, 3UR-FBE (2009-19)	Sequoia, Tundra	86

TOYOTA / PASSENGER CAR OR TRUCK (Cont'd)

1 1166cc, (1.2L), OHV, GAS, CARB, 8 Valve, Vin K, 3K-C 3K-C
 1969-79 L4 71 CID BORE - 75mm/2.95"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1969-79	SB1500-56	1½ O.D.,1.275T I.D.,0.2500 Depth
	Exh	1969-79	SB1250-50	1¼ O.D.,0.965T I.D.,¼ Depth
Valve	Int	11/74-79	10307	1.417 Head Diameter
	Exh	11/74-79	10308	1.142 Head Diameter
Keeper	Both	11/74-79	121-1023	1 SQ Bead Type
Stem Seal	Both	11/74-79	122-1127	Positive Type,Viton Material,Metal Clad Style

2 1290cc, (1.3L), OHV, GAS, CARB, 8 Valve, Vin K, 4K-C 4K-C
 1981-82 L4 79 CID BORE - 75mm/2.95"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1981-82	SB1500-56	1½ O.D.,1.275T I.D.,0.2500 Depth
	Exh	1981-82	SB1250-50	1¼ O.D.,0.965T I.D.,¼ Depth
Valve	Int	1981-82	10307	1.417 Head Diameter
	Exh	1981-82	10308	1.142 Head Diameter
Keeper	Both	1981-82	121-1023	1 SQ Bead Type
Stem Seal	Both	1981-82	122-1127	Positive Type,Viton Material,Metal Clad Style

3 1290cc, (1.3L), OHV, GAS, FI, 8 Valve, Vin K, 4K-E 4K-E
 1983-84 L4 79 CID BORE - 75mm/2.95"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1983-84	SB1500-56	1½ O.D.,1.275T I.D.,0.2500 Depth
	Exh	1983-84	SB1250-50	1¼ O.D.,0.965T I.D.,¼ Depth
Valve	Int	1983-84	10307	1.417 Head Diameter
	Exh	1983-84	10308	1.142 Head Diameter
Keeper	Both	1983-84	121-1023	1 SQ Bead Type
Stem Seal	Both	1983-84	122-1088	Positive Type,Viton Material,Metal Clad Style

4 1452cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin A, 1A-C 1A-C
 1980-80 L4 89 CID BORE - 77.5mm/3.05"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1980-80	SB1500-71	1½ O.D.,1.240 I.D.,0.3170 Depth
	Exh	1980-80	SB1312-59	1⅝ O.D.,1.044 I.D.,0.2730 Depth
Valve	Int	1980-80	10107	1.417 Head Diameter
	Exh	1980-80	10106	1.220 Head Diameter
Guide	Int	1980-80	140-8020	0.2757 I.D.,1.690 Length,0.4550 O.D.,W/ Snap Ring
	Exh	1980-80	140-8021	0.2757 I.D.,1.930 Length,0.4550 O.D.,W/ Snap Ring
Spring	Both	1980-80	160-1055	1.760 Length

5 1452cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin A, 3A-C 3A-C
 1981-88 L4 89 CID BORE - 77.5mm/3.05"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1981-88	SB1500-71	1½ O.D.,1.240 I.D.,0.3170 Depth
	Exh	1981-88	SB1312-59	1⅝ O.D.,1.044 I.D.,0.2730 Depth
Valve	Int	1981-88	10107	1.417 Head Diameter
	Exh	1981-88	10106	1.220 Head Diameter
Guide	Int	1981-88	140-8020	0.2757 I.D.,1.690 Length,0.4550 O.D.,W/ Snap Ring
	Exh	1981-88	140-8021	0.2757 I.D.,1.930 Length,0.4550 O.D.,W/ Snap Ring
Spring	Both	1981-88	160-1055	1.760 Length

(Cont'd) TOYOTA / PASSENGER CAR OR TRUCK**1456cc, (1.5L), SOHC, GAS, CARB, 12 Valve, Vin E, 3E**
1987-90 L4 89 CID**3E 6**
BORE - 73mm/2.87"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1987-90	SB1250-53	1¼ O.D., 1.024 I.D., 0.2570 Depth, Outer (Front)
Valve	Int 1987-90	10309	0.945 Head Diameter, Inner (Rear)
	1987-90	10310	1.181 Head Diameter, Outer (Front)
	Exh 1987-90	10311	1.220 Head Diameter
Keeper	Both 1987-90	121-1058	1 RD Bead Type
Stem Seal	Both 1987-90	122-1147	Positive Type, Viton Material, Metal Clad Style
Guide	Both 1987-90	140-8195	0.2371 I.D., 1.600 Length, 0.4355 O.D.
Head Saver Shim	1987-90	230-2069	New Hgt. - 5.0120 - 5.0150; Min. Hgt. - 5.0000

1456cc, (1.5L), SOHC, GAS, FI, 12 Valve, Vin E, 3E-E
1990-94 L4 89 CID**3E-E 7**
BORE - 73mm/2.87"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1990-94	SB1062-50	1½ O.D., 0.790 I.D., 0.2540 Depth, Inner (Rear)
	1990-94	SB1250-53	1¼ O.D., 1.024 I.D., 0.2570 Depth, Outer (Front)
	Exh 1990-94	SB1312-68	1⅝ O.D., 0.975 I.D., 0.2800 Depth
Valve	Int 1990-94	10309	0.945 Head Diameter, Inner (Rear)
	1990-94	10310	1.181 Head Diameter, Outer (Front)
	Exh 1990-94	10311	1.220 Head Diameter
Keeper	Both 1990-94	121-1058	1 RD Bead Type
Stem Seal	Both 1990-94	122-1147	Positive Type, Viton Material, Metal Clad Style
Guide	Both 1990-94	140-8195	0.2371 I.D., 1.600 Length, 0.4355 O.D.
Head Bolt Set	1990-94	220-1059	Torque To Yield, Services Engine
Head Saver Shim	1990-94	230-2069	New Hgt. - 5.0020 - 5.0050; Min. Hgt. - 4.9900

1496cc, (1.5L), DOHC, GAS, FI, 16 Valve, P5, ""Mazda SKYACTIV""
2016-20 L4 91 CID**P5 8**
BORE - 74.5mm/2.93"

PART	YEARS	PART NO.	NOTES
Valve	Int 2016-18	02241	1.205 Head Diameter, Except Yaris iA
	Exh 2016-18	02240	1.004 Head Diameter, Except Yaris iA

1497cc, (1.5L), DOHC, GAS, FI, 16 Valve, Vin C, E, 5E-FE
1992-99 L4 91 CID**5E-FE 9**
BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES
Valve	Int 1992-99	10137	1.122 Head Diameter
	Exh 1992-99	10138	0.965 Head Diameter
Keeper	Both 1992-99	121-1058	1 RD Bead Type
Stem Seal	Both 1992-99	122-1147	Positive Type, Viton Material, Metal Clad Style
Guide	Int 1992-99	140-8147	0.2370 I.D., 1.520 Length, 0.4360 O.D.
	Exh 1992-99	140-8195	0.2371 I.D., 1.600 Length, 0.4355 O.D.
Head Bolt Set	1992-99	220-1050	Torque To Yield, Services Engine
Head Saver Shim	1992-99	230-2107	New Hgt. - 4.22 (Intake Side)

1497cc, (1.5L), DOHC, GAS, FI, 16 Valve, 1NZ-FE
2000-19 L4 91 CID**1NZ-FE 10**
BORE - 75mm/2.95"

PART	YEARS	PART NO.	NOTES
Valve	Int 2000-19	02241	1.205 Head Diameter
	Exh 2000-19	02240	1.004 Head Diameter

TOYOTA / PASSENGER CAR OR TRUCK (Cont'd)

11 1497cc, (1.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, 1NZ-FXE, ""Hybrid"" 1NZ-FXE
 2001-19 L4 91 CID BORE - 75mm/2.95""

PART		YEARS	PART NO.	NOTES
Valve	Int	2001-19	02241	1.205 Head Diameter
	Exh	2001-19	02240	1.004 Head Diameter

12 1587cc, (1.6L), SOHC, GAS, CARB, 8 Valve, Vin A, 4A-C 4A-C
 1983-87 L4 97 CID BORE - 81mm/3.18""

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1983-87	SB1500-71	1½ O.D.,1.240 I.D.,0.3170 Depth
	Exh	1983-87	SB1312-59	1⅝ O.D.,1.044 I.D.,0.2730 Depth
Valve	Int	1983-87	10107	1.417 Head Diameter
	Exh	1983-87	10106	1.220 Head Diameter
Guide	Int	1983-87	140-8020	0.2757 I.D.,1.690 Length,0.4550 O.D.,W/ Snap Ring
	Exh	1983-87	140-8021	0.2757 I.D.,1.930 Length,0.4550 O.D.,W/ Snap Ring
Spring	Both	1983-87	160-1055	1.760 Length
Head Saver Shim		1983-87	230-2018	New Hgt.- 3.4000 - 3.4100; Min. Hgt.- 3.3850

13 1587cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin A, 4A-GE 4A-GE
 1988-91 L4 97 CID BORE - 81mm/3.18""

PART		YEARS	PART NO.	NOTES
Valve	Int	1988-91	10176	1.201 Head Diameter
	Exh	1988-91	10177	1.004 Head Diameter
Keeper	Both	1988-91	121-1058	1 RD Bead Type
Stem Seal	Both	1988-91	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1988-91	140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available

14 1587cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin A, 4A-GEC 4A-GEC
 1986-87 L4 97 CID BORE - 81mm/3.18""

PART		YEARS	PART NO.	NOTES
Valve	Int	1986-87	10176	1.201 Head Diameter
	Exh	1986-87	10177	1.004 Head Diameter
Keeper	Both	1986-87	121-1058	1 RD Bead Type
Stem Seal	Both	1986-87	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1986-87	140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available

15 1587cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin A, 4A-GELC 4A-GELC
 1987-89 L4 97 CID BORE - 81mm/3.18""

PART		YEARS	PART NO.	NOTES
Valve	Int	1987-89	10176	1.201 Head Diameter
	Exh	1987-89	10177	1.004 Head Diameter
Keeper	Both	1987-89	121-1058	1 RD Bead Type
Stem Seal	Both	1987-89	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1987-89	140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available

16 1587cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin A, 4A-GZE, ""Supercharged"" 4A-GZE
 1988-89 L4 97 CID BORE - 81mm/3.18""

PART		YEARS	PART NO.	NOTES
Valve	Int	1988-89	10176	1.201 Head Diameter
	Exh	1988-89	10177	1.004 Head Diameter

(Cont'd) TOYOTA / PASSENGER CAR OR TRUCK

1587cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin A, 4A-GZE, ""Supercharged"" **4A-GZE 16**
 1988-89 L4 97 CID **BORE - 81mm/3.18"" (cont.)**

PART	YEARS	PART NO.	NOTES	
Keeper	Both	1988-89	121-1058	1 RD Bead Type
Stem Seal	Both	1988-89	122-1147	Positive Type,Viton Material,Metal Clad Style,Int Only From 4/89
Guide	Both	1988-89	140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available

1587cc, (1.6L), DOHC, GAS, CARB, 16 Valve, Vin A, 4A-F **4A-F 17**
 1988-89 L4 97 CID **BORE - 81mm/3.18""**

PART	YEARS	PART NO.	NOTES	
Valve	Int	1988-89	10314	1.181 Head Diameter
	Exh	1988-89	10315	0.967 Head Diameter
Keeper	Both	1988-89	121-1058	1 RD Bead Type
Stem Seal	Both	1988-89	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1988-89	140-8147	0.2370 I.D.,1.520 Length,0.4360 O.D.
Spring	Both	1988-89	160-1252	1.796 Length
Head Saver Shim		1988-89	230-2033	New Hgt. 4.570; Min Hgt. N/A

1587cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin A, 4A-FE **4A-FE 18**
 1988-97 L4 97 CID **BORE - 81mm/3.18""**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-97	SB1250-54	1¼ O.D.,1.010T I.D.,0.2570 Depth
	Exh	1988-97	SB1062-50	1⅞ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int	1988-89	10314	1.181 Head Diameter,3.597 Overall Length
		1990-97	10506	1.221 Head Diameter,3.445 Overall Length
	Exh	1988-89	10315	0.967 Head Diameter,3.618 Overall Length
		1990-97	10507	0.965 Head Diameter,3.466 Overall Length
Keeper	Both	1988-97	121-1058	1 RD Bead Type
Stem Seal	Both	1988-97	122-1147	Positive Type,Viton Material,Metal Clad Style,Int Only From 11/91
Guide	Both	1988-97	140-8147	0.2370 I.D.,1.520 Length,0.4360 O.D.
Spring	Both	1988-92	160-1252	1.796 Length
Head Bolt Set		1988-97	220-1035	Torque To Yield,Services Engine
Head Saver Shim		1988-93	230-2033	New Hgt. - 4.570 - Min. Hgt. - NOTE: Corolla To 6/92, Celica ST
		1993-97	230-2097	Corrolla

1587cc, (1.6L), SOHC, GAS, CARB, 8 Valve, Vin A, 4A-LC **4A-LC 19**
 1986-88 L4 97 CID **BORE - 81mm/3.18""**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1986-88	SB1500-71	1½ O.D.,1.240 I.D.,0.3170 Depth
	Exh	1986-88	SB1312-59	1⅝ O.D.,1.044 I.D.,0.2730 Depth
Valve	Int	1986-88	10107	1.417 Head Diameter
	Exh	1986-88	10106	1.220 Head Diameter
Guide	Int	1986-88	140-8020	0.2757 I.D.,1.690 Length,0.4550 O.D.,W/ Snap Ring
	Exh	1986-88	140-8021	0.2757 I.D.,1.930 Length,0.4550 O.D.,W/ Snap Ring
Spring	Both	1986-88	160-1055	1.760 Length
Head Saver Shim		1986-88	230-2018	New Hgt.- 3.4000 - 3.4100; Min. Hgt.- 3.3850

TOYOTA / PASSENGER CAR OR TRUCK (Cont'd)

20 1588cc, (1.6L), OHV, GAS, CARB, 8 Valve, Vin T, 2T-C 2T-C
 1971-79 L4 97 CID BORE - 85mm/3.35"

PART	YEARS	PART NO.	NOTES
Keeper	Both	1971-79 121-1023	1 SQ Bead Type
Stem Seal	Both	1971-79 122-1127	Positive Type,Viton Material,Metal Clad Style
Lifter	Both	1971-79 VL81	Mechanical Type

21 1762cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin A, B, 7A-FE 7A-FE
 1993-97 L4 107 CID BORE - 81mm/3.18"

PART	YEARS	PART NO.	NOTES
Valve	Int	1993-97 10506	1.221 Head Diameter
	Exh	1993-97 10507	0.965 Head Diameter
Keeper	Both	1993-97 121-1058	1 RD Bead Type
Stem Seal	Both	1993-97 122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1993-97 140-8147	0.2370 I.D.,1.520 Length,0.4360 O.D.
Spring	Both	1993-97 160-1358	1.745 Length
Head Bolt Set		1993-97 220-1035	Torque To Yield,Services Engine
Head Saver Shim		1993-97 230-2100	New Hgt. - 4.567

22 1770cc, (1.8L), OHV, GAS, CARB, 8 Valve, Vin T, 3T-C 3T-C
 1980-82 L4 108 CID BORE - 85mm/3.34"

PART	YEARS	PART NO.	NOTES
Keeper	Both	1980-82 121-1023	1 SQ Bead Type
Stem Seal	Both	1980-82 122-1127	Positive Type,Viton Material,Metal Clad Style

23 1794cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin R, 1ZZ-FE 1ZZ-FE
 1998-08 L4 109 CID BORE - 79mm/3.11"

PART	YEARS	PART NO.	NOTES
Valve	Int	1998-05 10735	1.260 Head Diameter,Corolla 1998-99, Celica GT & MR2 1998-05
	Exh	2000-08 10780	1.220 Head Diameter,Corolla 2000-06, Matrix
		1998-05 10736	1.081 Head Diameter,Corolla 1998-99, Celica GT & MR2 1998-05
		2000-08 10781	1.024 Head Diameter,Corolla 2000-06, Matrix
Keeper	Both	1998-08 121-1100	1 RD Bead Type
Stem Seal	Int	1998-08 122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	1998-08 122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1998-08 140-8584	0.2175 I.D.,1.360 Length,0.4073 O.D.
Spring	Both	2000-08 160-1444	1.709 Length
Head Bolt Set		1998-08 220-1119	Torque To Yield,Services Engine
Head Saver Shim		1998-08 230-2147	New Hgt. 4.520 - 4.527: Min. Hgt. N/A

24 1795cc, (1.8L), DOHC, GAS, FI, 16 Valve 2ZZ-GE 2ZZ-GE
 2000-06 L4 110 CID BORE - 82mm/3.23"

PART	YEARS	PART NO.	NOTES
Valve	Int	2000-06 02177	1.339 Head Diameter
	Exh	2000-06 02178S	1.142 Head Diameter,Stellite Face
Stem Seal	Both	2000-06 122-1347	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2000-06 340-1011BR	0.2165 I.D.,1.695 Length,0.4155 O.D.,Optional Bronze Guide
Head Bolt Set		2000-06 220-1119	Torque To Yield,Services Engine

(Cont'd) TOYOTA / PASSENGER CAR OR TRUCK

1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin K, L, U, 2ZR-FE **2ZR-FE 25**
 2009-19 L4 110 CID BORE - 80.5mm/3.17"

PART		YEARS	PART NO.	NOTES
Valve	Int	2009-20	13365	1.260 Head Diameter
	Exh	2009-20	13366	1.084 Head Diameter
Keeper	Both	2009-20	121-1100	1 RD Bead Type
Stem Seal	Int	2009-20	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2009-20	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2009-20	140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh	2009-20	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin P, 2ZR-FAE **2ZR-FAE 26**
 2014-21 L4 110 CID BORE - 80.5mm/3.17"

PART		YEARS	PART NO.	NOTES
Valve	Int	2014-19	13365	1.260 Head Diameter
	Exh	2014-19	13366	1.084 Head Diameter
Keeper	Both	2017-19	121-1100	1 RD Bead Type
Stem Seal	Int	2014-19	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2014-19	122-1282	Positive Type,Viton Material,Metal Clad Style

1798cc, (1.8L), DOHC, ELECTRIC/GAS, FI, 16 Valve, 2ZR-FXE, ""Hybrid"" **2ZR-FXE 27**
 2010-21 L4 110 CID BORE - 80.5mm/3.17"

PART		YEARS	PART NO.	NOTES
Valve	Int	2010-20	13365	1.260 Head Diameter
	Exh	2010-20	13366	1.084 Head Diameter
Keeper	Both	2010-20	121-1100	1 RD Bead Type
Stem Seal	Int	2010-20	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2010-20	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2010-20	140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh	2010-20	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

1839cc, (1.8L), SOHC, DIESEL, FI, 8 Valve, Vin C, 1C-TLC, ""TURBO"" **1C-TLC 28**
 1984-85 L4 112 CID BORE - 83mm/3.26"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1984-85	SB1625-11	1 $\frac{5}{8}$ O.D.,1 $\frac{11}{32}$ I.D., $\frac{7}{32}$ Depth,+6 O/S Available,Adjustable Cutter Must Be Used To Allow For Proper Press Fit
	Exh	1984-85	SB1375-54	1 $\frac{3}{8}$ O.D.,1.022T I.D.,0.2300 Depth
Stem Seal	Both	1984-85	122-1088	Positive Type,Viton Material,Metal Clad Style

1968cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin R, 18R-C **18R-C 29**
 1972-74 L4 120 CID BORE - 88.5mm/3.48"

PART		YEARS	PART NO.	NOTES
Keeper	Both	1972-74	121-1023	1 SQ Bead Type

1987cc, (2.0L), DOHC, GAS, FI, 16 Valve, 3ZR-FAE **3ZR-FAE 30**
 2018-21 L4 121 CID BORE - 80.5mm/3.17"

PART		YEARS	PART NO.	NOTES
Valve	Int	2018-20	13365	1.260 Head Diameter
	Exh	2018-20	13366	1.084 Head Diameter
Keeper	Both	2018-20	121-1100	1 RD Bead Type
Stem Seal	Int	2018-20	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2018-20	122-1282	Positive Type,Viton Material,Metal Clad Style

TOYOTA / PASSENGER CAR OR TRUCK (Cont'd)

31 1995cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin S, 2S-ELC 2S-ELC
 1983-86 L4 122 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES
Keeper	Both	1983-86 121-1023	1 SQ Bead Type
Stem Seal	Both	1983-86 122-1127	Positive Type,Viton Material,Metal Clad Style

32 1998cc, (2.0L), OHV, GAS, FI, 8 Valve, Vin Y, 3Y-EC 3Y-EC
 1984-85 L4 122 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES
Valve	Int	1984-85 10322	1.575 Head Diameter
	Exh	1984-85 10323	1.417 Head Diameter
Stem Seal	Both	1984-85 122-1127	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1984-85 140-8201	0.3160 I.D.,1.970 Length,0.5145 O.D.,W/ Snap Ring
	Exh	1984-85 140-8202	0.3160 I.D.,2.045 Length,0.5143 O.D.,W/ Snap Ring
Spring	Both	1984-85 160-1307	1.846 Length

33 1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin S, 3SF-E, ""Car"" 3SF-E_CAR
 1987-91 L4 122 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1987-91 SB1062-50	1 ¹ / ₁₆ O.D.,0.790 I.D.,0.2540 Depth
Keeper	Both	1987-91 121-1058	1 RD Bead Type
Stem Seal	Both	1987-91 122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1987-91 140-8147	0.2370 I.D.,1.520 Length,0.4360 O.D.
	Exh	1987-91 140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both	1987-91 160-1252	1.796 Length
Head Bolt Set		1987-91 220-1060	Torque To Yield,Services Engine
Head Saver Shim		1987-91 230-2063	New Hgt.- 4.9650; Min. Hgt.- 4.9500

34 1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin P, 3SF-E, ""Truck"" 3SF-E_TRU
 1996-00 L4 122 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1996-00 SB1375-56	1 ³ / ₈ O.D.,1.102 I.D.,0.2600 Depth
	Exh	1996-00 SB1062-50	1 ¹ / ₁₆ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int	1996-00 10421	1.260 Head Diameter,3.842 Overall Length
	Exh	1996-00 10420	1.063 Head Diameter,3.876 Overall Length
Keeper	Both	1996-00 121-1058	1 RD Bead Type
Stem Seal	Both	1996-00 122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1996-00 140-8147	0.2370 I.D.,1.520 Length,0.4360 O.D.
	Exh	1996-00 140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available

35 1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin S, 3SG-ELC 3SG-ELC
 1986-89 L4 122 CID BORE - 86mm/3.38"

PART	YEARS	PART NO.	NOTES
Keeper	Both	1986-89 121-1058	1 RD Bead Type
Stem Seal	Both	1986-89 122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1986-89 140-8147	0.2370 I.D.,1.520 Length,0.4360 O.D.
	Exh	1986-89 140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring

(Cont'd) **TOYOTA / PASSENGER CAR OR TRUCK**

1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin S, 3SG-TE, ""TURBO"" 3SG-TE **36**
1988-95 L4 122 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES
Keeper	Both 1988-95	121-1058	1 RD Bead Type
Stem Seal	Both 1988-95	122-1246	Positive Type,Viton Material,Metal Clad Style

1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, 1AZ-FE 1AZ-FE **37**
2001-03 L4 122 CID BORE - 86mm/3.39""

PART	YEARS	PART NO.	NOTES
Valve	Int 2001-03 Exh 2001-03	10798 10799	1.339 Head Diameter 1.161 Head Diameter
Keeper	Both 2001-03	121-1100	1 RD Bead Type
Stem Seal	Int 2001-03 Exh 2001-03	122-1266 122-1282	Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style

2164cc, (2.2L), DOHC, GAS, FI, 16 Valve, Vin G, S, 5SF-E 5SF-E **38**
1990-01 L4 132 CID BORE - 87mm/3.43""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1990-01 Exh 1990-01	SB1375-56 SB1187-51	1 $\frac{3}{8}$ O.D.,1.102 I.D.,0.2600 Depth 1 $\frac{3}{16}$ O.D.,0.905 I.D.,0.2570 Depth
Valve	Int 1992-01 Exh 1992-01	10421 10420	1.260 Head Diameter,3.842 Overall Length 1.063 Head Diameter,3.876 Overall Length
Keeper	Both 1990-01	121-1058	1 RD Bead Type
Stem Seal	Int 2000-01 Exh 2000-01 Both 1990-99	122-1147 122-1246 122-1147	Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style
Guide	Int 1995-01 Exh 1995-01 Both 1990-94	140-8147 140-8038 140-8038	0.2370 I.D.,1.520 Length,0.4360 O.D. 0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring 0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both 1990-92	160-1252	1.796 Length,Celica, MR2 Only
Head Bolt Set	1990-01	220-1060	Torque To Yield,Services Engine
Head Saver Shim	1990-01	230-2065	New Hgt.- 4.9630 - 4.9670; Min. Hgt.- 4.9530

2188cc, (2.2L), SOHC, DIESEL, FI, 8 Valve, Vin L L **39**
1981-83 L4 134 CID BORE - 88.5mm/3.48""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1981-83	SB1437-67	1 $\frac{7}{16}$ O.D.,1.180T I.D.,0.2550 Depth

2189cc, (2.2L), SOHC, GAS, CARB, 8 Valve, Vin R, 20R 20R **40**
1975-80 L4 134 CID BORE - 88.5mm/3.48""

PART	YEARS	PART NO.	NOTES
Valve	Int 1975-80 Exh 1975-80	10048 10037	1.692 Head Diameter 1.419 Head Diameter
Keeper	Both 1975-80	121-1023	1 SQ Bead Type
Stem Seal	Both 1975-80	122-1127	Positive Type,Viton Material,Metal Clad Style
Guide	Both 1975-80	140-7523	0.3160 I.D.,2.260 Length,0.5145 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both 1977-80	160-1038	1.800 Length
Rocker Components	Both 1975-80	180-1326	Rocker Arm, Cast Aluminum,W/ Adjusting Screw, Replaces Early Cast Iron Rocker Arm

TOYOTA / PASSENGER CAR OR TRUCK (Cont'd)

41 2237cc, (2.2L), OHV, GAS, FI, 8 Valve, Vin Y, 4Y-EC 4Y-EC
 1986-89 L4 137 CID BORE - 91mm/3.59"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1986-89	10322	1.575 Head Diameter
	Exh	1986-89	10323	1.417 Head Diameter
Stem Seal	Both	1986-89	122-1127	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1986-89	140-8201	0.3160 I.D.,1.970 Length,0.5145 O.D.,W/ Snap Ring
	Exh	1986-89	140-8202	0.3160 I.D.,2.045 Length,0.5143 O.D.,W/ Snap Ring
Spring	Both	1986-89	160-1307	1.846 Length
Head Saver Shim		1986-89	230-2150	New Hgt. 4.390-4.410; Min. Hgt. N/A

42 2253cc, (2.3L), SOHC, GAS, CARB, 12 Valve, Vin R, 2M 2M
 1968-72 L6 138 CID BORE - 85mm/3.35"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	1968-72	121-1023	1 SQ Bead Type

43 2362cc, (2.4L), DOHC, GAS, FI, 16 Valve, 2AZ-FE 2AZ-FE
 2001-13 L4 144 CID BORE - 88.5mm/3.48"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2001-13	10798	1.339 Head Diameter
	Exh	2001-13	10799	1.161 Head Diameter
Keeper	Both	2001-13	121-1100	1 RD Bead Type
Stem Seal	Int	2001-13	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2001-13	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2001-13	140-8585	0.2175 I.D.,1.590 Length,0.4075 O.D.
Head Saver Shim		2001-13	230-2143	New Hgt. - 5.090; Min. Hgt. - N/A

44 2362cc, (2.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin B, 2AZ-FXE 2AZ-FXE
 2007-11 L4 144 CID BORE - 88.5mm/3.48"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2007-11	10798	1.339 Head Diameter
	Exh	2007-11	10799	1.161 Head Diameter
Keeper	Both	2007-11	121-1100	1 RD Bead Type
Stem Seal	Int	2007-11	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2007-11	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2007-11	140-8585	0.2175 I.D.,1.590 Length,0.4075 O.D.
Head Saver Shim		2007-11	230-2143	New Hgt. - 5.090; Min. Hgt. - N/A

45 2366cc, (2.4L), SOHC, GAS, CARB, 8 Valve, Vin R, 22R 22R
 1981-90 L4 144 CID BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1981-90	SB1937-52	1 ¹⁵ / ₁₆ O.D.,1.573T I.D.,0.3790 Depth
	Exh	1981-90	SB1562-67	1 ⁹ / ₁₆ O.D.,1.255T I.D.,0.3190 Depth
Valve	Int	1981-90	10328A	1.770 Head Diameter,Nitride
	Exh	1981-90	10330A	1.457 Head Diameter,Nitride
Keeper	Both	1981-90	121-1023	1 SQ Bead Type
Stem Seal	Both	1981-90	122-1127	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1981-90	140-7523	0.3160 I.D.,2.260 Length,0.5145 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both	1981-84	160-1038	1.800 Length
		1985-90	160-1106	1.923 Length

(Cont'd) **TOYOTA / PASSENGER CAR OR TRUCK**

2366cc, (2.4L), SOHC, GAS, CARB, 8 Valve, Vin R, 22R
1981-90 L4 144 CID

22R 45
BORE - 92mm/3.62"" (cont.)

PART	YEARS	PART NO.	NOTES
Rocker Components	Both 1981-90	180-1326	Rocker Arm, Cast Aluminum,W/ Adjusting Screw, Replaces Early Cast Iron Rocker Arm
Head Bolt Set	1987-90	220-1113	Torque To Yield,Services Engine
Head Saver Shim	1981-90	230-2066	New Hgt.- 3.9500- 3.9600; Min. Hgt.- 3.9400

2366cc, (2.4L), SOHC, GAS, FI, 8 Valve, Vin R, 22R-E
1989-95 L4 144 CID

22R-E 46
BORE - 92mm/3.62""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1989-95 Exh 1989-95	SB1937-52 SB1562-67	1 ¹⁵ / ₁₆ O.D.,1.573T I.D.,0.3790 Depth 1 ⁹ / ₁₆ O.D.,1.255T I.D.,0.3190 Depth
Valve	Int 1989-95 Exh 1989-95	10328A 10330A	1.770 Head Diameter,Nitride 1.457 Head Diameter,Nitride
Keeper	Both 1989-95	121-1023	1 SQ Bead Type
Stem Seal	Int 1989-95 Exh 1989-95	122-1163 122-1127	Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style
Guide	Both 1989-95	140-7523	0.3160 I.D.,2.260 Length,0.5145 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both 1989-95	160-1106	1.923 Length
Rocker Components	Both 1989-95	180-1326	Rocker Arm, Cast Aluminum,W/ Adjusting Screw, Replaces Early Cast Iron Rocker Arm
Head Bolt Set	1989-95	220-1113	Torque To Yield,Services Engine
Head Saver Shim	1989-95	230-2066	New Hgt.- 3.7900 - 3.8000; Min. Hgt.- 3.7800

2366cc, (2.4L), SOHC, GAS, FI, 8 Valve, Vin R, 22R-EC
1986-89 L4 144 CID

22R-EC 47
BORE - 92mm/3.62""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1986-89 Exh 1986-89	SB1937-52 SB1562-67	1 ¹⁵ / ₁₆ O.D.,1.573T I.D.,0.3790 Depth 1 ⁹ / ₁₆ O.D.,1.255T I.D.,0.3190 Depth
Valve	Int 1986-89 Exh 1986-89	10328A 10330A	1.770 Head Diameter,Nitride 1.457 Head Diameter,Nitride
Keeper	Both 1986-89	121-1023	1 SQ Bead Type
Stem Seal	Both 1986-89	122-1088	Positive Type,Viton Material,Metal Clad Style
Guide	Both 1986-89	140-7523	0.3160 I.D.,2.260 Length,0.5145 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both 1986-89	160-1106	1.923 Length
Rocker Components	Both 1986-89	180-1326	Rocker Arm, Cast Aluminum,W/ Adjusting Screw, Replaces Early Cast Iron Rocker Arm
Head Bolt Set	1986-89	220-1113	Torque To Yield,Services Engine
Head Saver Shim	1986-89	230-2066	New Hgt.- 3.7900 - 3.8000; Min. Hgt.- 3.7800

2366cc, (2.4L), SOHC, GAS, FI, 8 Valve, Vin R, 22R-TEC, ""TURBO""
1986-88 L4 144 CID

22R-TEC 48
BORE - 92mm/3.62""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1986-88 Exh 1986-88	SB1937-52 SB1562-67	1 ¹⁵ / ₁₆ O.D.,1.573T I.D.,0.3790 Depth 1 ⁹ / ₁₆ O.D.,1.255T I.D.,0.3190 Depth
Valve	Int 1986-88	10328A	1.770 Head Diameter,Nitride
Keeper	Both 1986-88	121-1023	1 SQ Bead Type

TOYOTA / PASSENGER CAR OR TRUCK (Cont'd)

48 2366cc, (2.4L), SOHC, GAS, FI, 8 Valve, Vin R, 22R-TEC, ""TURBO"" 22R-TEC
 (cont.) 1986-88 L4 144 CID BORE - 92mm/3.62""

PART	YEARS	PART NO.	NOTES	
Guide	Both	1986-88	140-7523	0.3160 I.D.,2.260 Length,0.5145 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both	1986-88	160-1106	1.923 Length
Rocker Components	Both	1986-88	180-1326	Rocker Arm, Cast Aluminum,W/ Adjusting Screw, Replaces Early Cast Iron Rocker Arm

49 2438cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin A, 2TZ-FE 2TZ-FE
 1991-95 L4 149 CID BORE - 95mm/3.74""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1991-95	SB1562-66	1 ¹ / ₁₆ O.D.,1.265T I.D.,0.2800 Depth
	Exh	1991-95	SB1312-67	1 ⁵ / ₁₆ O.D.,1.042 I.D.,0.2380 Depth
Valve	Int	1991-95	10473	1.417 Head Diameter
	Exh	1991-95	10474	1.201 Head Diameter
Keeper	Both	1991-95	121-1058	1 RD Bead Type
Stem Seal	Both	1991-95	122-1246	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1991-95	140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available
	Exh	1991-95	140-8273	0.2365 I.D.,1.890 Length,0.4353 O.D.,W/ Snap Ring
Head Bolt Set		1991-95	220-1043	Torque To Yield,Services Engine

50 2438cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin A, K, 2TZ-FZE, 2TZ-FZE
 ""Supercharged"" BORE - 95mm/3.74""
 1994-97 L4 149 CID

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1994-97	SB1562-66	1 ¹ / ₁₆ O.D.,1.265T I.D.,0.2800 Depth
	Exh	1994-97	SB1312-67	1 ⁵ / ₁₆ O.D.,1.042 I.D.,0.2380 Depth
Valve	Int	1994-97	10473	1.417 Head Diameter
	Exh	1994-97	10474	1.201 Head Diameter
Keeper	Exh	1994-97	121-1058	1 RD Bead Type
Stem Seal	Both	1994-97	122-1246	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1994-97	140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available
	Exh	1994-97	140-8273	0.2365 I.D.,1.890 Length,0.4353 O.D.,W/ Snap Ring
Head Bolt Set		1994-97	220-1043	Torque To Yield,Services Engine

51 2438cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin L, U, 2RZ-FE 2RZ-FE
 1995-04 L4 149 CID BORE - 95mm/3.74""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1995-04	SB1562-66	1 ¹ / ₁₆ O.D.,1.265T I.D.,0.2800 Depth
	Exh	1995-04	SB1312-67	1 ⁵ / ₁₆ O.D.,1.042 I.D.,0.2380 Depth
Valve	Int	1995-04	10321	1.476 Head Diameter
	Exh	1995-04	10474	1.201 Head Diameter
Keeper	Both	1995-04	121-1058	1 RD Bead Type
Stem Seal	Int	1995-04	122-1147	Positive Type,Viton Material,Metal Clad Style
	Exh	1995-04	122-1285	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1995-04	140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available
	Exh	1995-04	140-8273	0.2365 I.D.,1.890 Length,0.4353 O.D.,W/ Snap Ring
Head Bolt Set		1995-04	220-1043	Torque To Yield,Services Engine

(Cont'd) **TOYOTA / PASSENGER CAR OR TRUCK**

2438cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin L, U, 2RZ-FE **2RZ-FE 51**
1995-04 L4 149 CID BORE - 95mm/3.74"" (cont.)

PART	YEARS	PART NO.	NOTES
Head Saver Shim	1995-04	230-2142	New Hgt. - 5.135 - 5.139; Min. Hgt. - N/A

2446cc, (2.4L), SOHC, DIESEL, FI, 8 Valve, Vin H, L, 2L **2L 52**
1984-87 L4 149 CID BORE - 92mm/3.62""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1984-87	SB1437-67	1 ⁷ / ₁₆ O.D.,1.180T I.D.,0.2550 Depth
Spring	Int 1984-84	160-1038	1.800 Length,Outer

2487cc, (2.5L), DOHC, GAS, FI, 16 Valve, A25A-FKS **A25A-FKS 53**
2018-21 L4 152 CID BORE - 87.5mm/3.44""

PART	YEARS	PART NO.	NOTES
Keeper	Both 2018-20	121-1100	1 RD Bead Type
Stem Seal	Int 2018-20	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh 2018-20	122-1282	Positive Type,Viton Material,Metal Clad Style

2487cc, (2.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, A25A-FXS, ""Hybrid"" **A25A-FXS 54**
2018-21 L4 152 CID BORE - 87.5mm/3.44""

PART	YEARS	PART NO.	NOTES
Keeper	Both 2018-20	121-1100	1 RD Bead Type
Stem Seal	Int 2018-20	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh 2018-20	122-1282	Positive Type,Viton Material,Metal Clad Style

2494cc, (2.5L), DOHC, GAS, FI, 16 Valve, 2AR-FE **2AR-FE 55**
2009-18 L4 152 CID BORE - 90mm/3.54""

PART	YEARS	PART NO.	NOTES
Keeper	Both 2009-18	121-1100	1 RD Bead Type
Stem Seal	Int 2009-18	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh 2009-18	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2009-18	140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh 2009-18	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

2494cc, (2.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin D, 2AR-FXE, ""Hybrid"" **2AR-FXE 56**
2012-18 L4 152 CID BORE - 90mm/3.54""

PART	YEARS	PART NO.	NOTES
Keeper	Both 2012-18	121-1100	1 RD Bead Type
Stem Seal	Int 2012-18	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh 2012-18	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2012-18	140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh 2012-18	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

2508cc, (2.5L), DOHC, GAS, FI, 24 Valve, Vin V, 2VZ-FE **2VZ-FE 57**
1988-91 V6 153 CID BORE - 87.5mm/3.45""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1988-91	SB1375-50	1 ³ / ₈ O.D.,1.109T I.D.,0.2550 Depth,Also Available In Non-Magnetic (N) Material
	Exh 1988-91	SB1187-53	1 ³ / ₁₆ O.D.,0.935 I.D.,0.2350 Depth
Keeper	Both 1988-91	121-1058	1 RD Bead Type
Stem Seal	Both 1988-91	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Both 1988-91	140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available

TOYOTA / PASSENGER CAR OR TRUCK (Cont'd)

57 2508cc, (2.5L), DOHC, GAS, FI, 24 Valve, Vin V, 2VZ-FE 2VZ-FE
 (cont.) 1988-91 V6 153 CID BORE - 87.5mm/3.45"

PART	YEARS	PART NO.	NOTES
Head Bolt Set	1988-91	220-1048	Torque To Yield,Services Engine

58 2563cc, (2.6L), SOHC, GAS, CARB, 12 Valve, Vin M, 4M 4M
 1971-79 L6 156 CID BORE - 80mm/3.14"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1978-79 Exh 1978-79	SB1625-52 SB1437-56	1 ⁵ / ₈ O.D.,1.260T I.D.,0.3150 Depth 1 ⁷ / ₁₆ O.D.,1.110T I.D.,0.3150 Depth
Keeper	Both 1971-79	121-1023	1 SQ Bead Type

59 2563cc, (2.6L), SOHC, GAS, FI, 12 Valve, Vin M, 4M-E 4M-E
 1979-80 L6 156 CID BORE - 80mm/3.14"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1979-80 Exh 1979-80	SB1625-52 SB1437-56	1 ⁵ / ₈ O.D.,1.260T I.D.,0.3150 Depth 1 ⁷ / ₁₆ O.D.,1.110T I.D.,0.3150 Depth
Keeper	Both 1979-80	121-1023	1 SQ Bead Type

60 2672cc, (2.7L), DOHC, GAS, FI, 16 Valve, 1AR-FE 1AR-FE
 2009-19 L4 163 CID BORE - 90mm/3.54"

PART	YEARS	PART NO.	NOTES
Keeper	Both 2009-19	121-1100	1 RD Bead Type
Stem Seal	Int 2009-19 Exh 2009-19	122-1266 122-1282	Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style
Guide	Int 2009-19 Exh 2009-19	140-3134 140-3135	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available 0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

61 2694cc, (2.7L), DOHC, GAS, FI, 16 Valve, Vin X, 2TR-FE 2TR-FE
 2005-21 L4 164 CID BORE - 95mm/3.74"

PART	YEARS	PART NO.	NOTES
Valve	Int 2005-19 Exh 2005-20	13208 13209	1.476 Head Diameter 1.240 Head Diameter
Keeper	Both 2005-20	121-1100	1 RD Bead Type
Stem Seal	Int 2005-20 Exh 2005-20	122-1266 122-1282	Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style
Guide	Both 2005-20	140-3130	0.2175 I.D.,1.715 Length,0.4075 O.D.
Head Saver Shim	2005-21	230-2203	New Hgt.-5.615". Min. Hgt.-5.600"

62 2694cc, (2.7L), DOHC, GAS, FI, 16 Valve, Vin M, U, 3RZ-FE 3RZ-FE
 1994-04 L4 164 CID BORE - 95mm/3.74"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1994-04 Exh 1994-04	SB1562-66 SB1312-67	1 ¹ / ₁₆ O.D.,1.265T I.D.,0.2800 Depth 1 ⁵ / ₁₆ O.D.,1.042 I.D.,0.2380 Depth
Valve	Int 1994-04 Exh 1994-04	10321 10474	1.476 Head Diameter 1.201 Head Diameter
Keeper	Both 1994-04	121-1058	1 RD Bead Type
Stem Seal	Int 1994-04 Exh 1994-04	122-1147 122-1285	Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style
Guide	Int 1994-04 Exh 1994-04	140-8038 140-8273	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available 0.2365 I.D.,1.890 Length,0.4353 O.D.,W/ Snap Ring
Head Bolt Set	1994-04	220-1043	Torque To Yield,Services Engine

(Cont'd) **TOYOTA / PASSENGER CAR OR TRUCK**

2694cc, (2.7L), DOHC, GAS, FI, 16 Valve, Vin M, U, 3RZ-FE **3RZ-FE 62**
1994-04 L4 164 CID BORE - 95mm/3.74"^{***} (cont.)

PART	YEARS	PART NO.	NOTES
Head Saver Shim	1994-04	230-2142	New Hgt. - 5.315; Min. Hgt. - N/A

2759cc, (2.8L), SOHC, GAS, FI, 12 Valve, Vin M, 5M-E **5M-E 63**
1981-82 L6 171 CID BORE - 83mm/3.26"^{***}

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1981-82	SB1437-56	1 ⁷ / ₁₆ O.D.,1.110T I.D.,0.3150 Depth
Keeper	Both 1981-82	121-1023	1 SQ Bead Type

2754cc, (2.8L), DOHC, GAS, FI, 12 Valve, Vin M, 5M-GE **5M-GE 64**
1982-88 L6 168 CID BORE - 83mm/3.26"^{***}

PART	YEARS	PART NO.	NOTES
Keeper	Both 1982-88	121-1023	1 SQ Bead Type
Stem Seal	Both 1982-88	122-1127	Positive Type,Viton Material,Metal Clad Style
Guide	Both 1982-88	140-8018	0.3160 I.D.,1.870 Length,0.5140 O.D.,W/ Snap Ring

2954cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin M, 7MG-E **7MG-E 65**
1987-92 L6 181 CID BORE - 83mm/3.26"^{***}

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1987-92	SB1187-52	1 ³ / ₁₆ O.D.,0.934T I.D.,0.2570 Depth
Valve	Int 1987-92	10337	1.260 Head Diameter
	Exh 1987-92	10338S	1.083 Head Diameter,Stellite Face
Keeper	Both 1987-92	121-1058	1 RD Bead Type
Stem Seal	Both 1987-92	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Int 1987-92	140-8208	0.2370 I.D.,1.455 Length,0.4350 O.D.,W/ Snap Ring
	Exh 1987-92	140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both 1987-92	160-1253	1.620 Length
Head Saver Shim	1987-92	230-2042	New Hgt. - 4.5700 - 4.5750; Min. Hgt.- 4.5600

2954cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin M, 7MG-TE, ""TURBO"" **7MG-TE 66**
1987-92 L6 180 CID BORE - 83mm/3.26"^{***}

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1987-92	SB1187-52	1 ³ / ₁₆ O.D.,0.934T I.D.,0.2570 Depth
Valve	Int 1987-92	10337	1.260 Head Diameter
	Exh 1987-92	10338S	1.083 Head Diameter,Stellite Face
Keeper	Both 1987-92	121-1058	1 RD Bead Type
Stem Seal	Both 1987-92	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Int 1987-92	140-8208	0.2370 I.D.,1.455 Length,0.4350 O.D.,W/ Snap Ring
	Exh 1987-92	140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both 1987-92	160-1253	1.620 Length
Head Saver Shim	1987-92	230-2042	New Hgt.- 4.5700 - 4.5750; Min. Hgt.- 4.5600

2959cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin V, 3VZ-E **3VZ-E 67**
1988-95 V6 180 CID BORE - 87.5mm/3.45"^{***}

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1988-95	SB1750-68	1 ³ / ₄ O.D.,1.415 I.D.,0.3160 Depth
	Exh 1988-95	SB1562-69N	1 ⁹ / ₁₆ O.D.,1.219 I.D.,0.3170 Depth,Optional Non-Magnetic (N) Material
	1988-95	SB1562-72	1 ⁹ / ₁₆ O.D.,1.180 I.D.,0.3160 Depth

TOYOTA / PASSENGER CAR OR TRUCK (Cont'd)

67 2959cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin V, 3VZ-E 3VZ-E
 (cont.) 1988-95 V6 180 CID BORE - 87.5mm/3.45"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1988-95	10339SA	1.654 Head Diameter,Stellite Face, Nitride
	Exh	1988-95	10340A	1.378 Head Diameter,Nitride
Stem Seal	Int	1988-93	122-1163	Positive Type,Viton Material,Metal Clad Style
	Exh	1988-93	122-1127	Positive Type,Viton Material,Metal Clad Style
	Both	1994-95	122-1163	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1988-95	140-8207	0.3160 I.D.,1.820 Length,0.5140 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both	1988-95	160-1319	1.876 Length,Alternative Ovate Wire Design
Head Bolt Set		1988-95	220-1052	Torque To Yield,Services Engine
Head Saver Shim		1988-95	230-2026L	Left,New Hgt.- 5.312 - 5.315, Min. Hgt. 5.302
		1988-95	230-2026R	Right,New Hgt.- 5.312 - 5.315, Min. Hgt. 5.302

68 2959cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin V, 3VZ-FE 3VZ-FE
 1992-93 V6 180 CID BORE - 87.5mm/3.45"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1992-93	SB1437-72	1 ⁷ / ₁₆ O.D.,1.150T I.D.,0.2570 Depth
	Exh	1992-93	SB1187-53	1 ³ / ₁₆ O.D.,0.935 I.D.,0.2350 Depth
Valve	Int	1992-93	10305	1.339 Head Diameter
	Exh	1992-93	10306S	1.073 Head Diameter,Stellite Face
Keeper	Both	1992-93	121-1058	1 RD Bead Type
Stem Seal	Int	1992-93	122-1165	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1992-93	140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available
Head Bolt Set		1992-93	220-1048	Torque To Yield,Services Engine

69 2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin F, G, 1MZ-FE 1MZ-FE
 1994-06 V6 183 CID BORE - 87.5mm/3.45"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1994-06	SB1437-72	1 ⁷ / ₁₆ O.D.,1.150T I.D.,0.2570 Depth
	Exh	1994-06	SB1187-53	1 ³ / ₁₆ O.D.,0.935 I.D.,0.2350 Depth
Valve	Int	1994-06	10552	1.339 Head Diameter
	Exh	1994-06	10553S	1.073 Head Diameter,Stellite Face
Keeper	Both	1994-06	121-1100	1 RD Bead Type
Stem Seal	Int	1994-06	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	1994-06	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1994-06	140-8584	0.2175 I.D.,1.360 Length,0.4073 O.D.
	Exh	1994-06	140-8585	0.2175 I.D.,1.590 Length,0.4075 O.D.,+2 O/S Available

70 2997cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin D, J, 2JZ-GE 2JZ-GE
 1994-98 L6 183 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1994-98	SB1437-72	1 ⁷ / ₁₆ O.D.,1.150T I.D.,0.2570 Depth
	Exh	1994-98	SB1250-58	1 ¹ / ₄ O.D.,0.955 I.D.,0.2550 Depth
Valve	Int	1994-98	10518	1.319 Head Diameter
Stem Seal	Both	1994-98	122-1147	Positive Type,Viton Material,Metal Clad Style,Optional
		1994-98	122-1246	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1994-98	140-8147	0.2370 I.D.,1.520 Length,0.4360 O.D.
	Exh	1994-98	140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available

(Cont'd) TOYOTA / PASSENGER CAR OR TRUCK

2997cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin E, J, 2JZ-GTE, ""TURBO"" **2JZ-GTE 71**
 1994-98 L6 183 CID **BORE - 86mm/3.39""**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1994-98	SB1437-72	17/16 O.D.,1.150T I.D.,0.2570 Depth
	Exh	1994-98	SB1250-58	1¼ O.D.,0.955 I.D.,0.2550 Depth
Valve	Int	1994-98	10518	1.319 Head Diameter
Stem Seal	Both	1994-98	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1994-98	140-8147	0.2370 I.D.,1.520 Length,0.4360 O.D.
	Exh	1994-98	140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available

3310cc, (3.3L), DOHC, ELECTRIC/GAS, GAS, FI, 24 Valve, 3MZ-FE **3MZ-FE 72**
 2004-10 V6 202 CID **BORE - 91.95mm/3.62""**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2004-10	SB1437-72	17/16 O.D.,1.150T I.D.,0.2570 Depth
	Exh	2004-10	SB1187-53	1¾ O.D.,0.935 I.D.,0.2350 Depth
Valve	Int	2004-10	10552	1.339 Head Diameter
	Exh	2004-10	10553S	1.073 Head Diameter,Stellite Face
Keeper	Both	2004-10	121-1100	1 RD Bead Type
Stem Seal	Int	2004-10	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2004-10	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2004-10	140-8584	0.2175 I.D.,1.360 Length,0.4073 O.D.
	Exh	2004-10	140-8585	0.2175 I.D.,1.590 Length,0.4075 O.D.

3378cc, (3.4L), DOHC, GAS, FI, 24 Valve, Vin N, 5VZ-FE **5VZ-FE 73**
 1995-04 V6 206 CID **BORE - 93.5mm/3.68""**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1995-04	SB1437-72	17/16 O.D.,1.150T I.D.,0.2570 Depth
	Exh	1995-04	SB1187-53	1¾ O.D.,0.935 I.D.,0.2350 Depth
Valve	Int	1995-04	10305	1.339 Head Diameter
	Exh	1995-04	10306S	1.073 Head Diameter,Stellite Face
Keeper	Both	1995-04	121-1058	1 RD Bead Type
Stem Seal	Int	1995-04	122-1165	Positive Type,Viton Material,Metal Clad Style
	Exh	1995-04	122-1285	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1995-04	140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available
Head Bolt Set		1995-04	220-1048	Torque To Yield,Services Engine
Head Saver Shim		1995-04	230-2127L	Left,New Hgt.- 4.805 - 4.808, Min. Hgt. N/A
		1995-04	230-2127R	Right,New Hgt.- 4.805 - 4.808, Min. Hgt. N/A

3456cc, (3.5L), DOHC, GAS, FI, 24 Valve, 2GR-FE **2GRFE 74**
 2005-18 V6 211 CID **BORE - 94mm/3.70""**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2005-18	SB1527E-1	1.527 O.D.,1.310T I.D.,0.2580 Depth,+30 O/S Available
	Exh	2005-18	SB1288E-1	1.288 O.D.,1.107T I.D.,0.2580 Depth,+30 O/S Available
Valve	Int	2005-18	13086	1.496 Head Diameter
	Exh	2005-18	13087	1.260 Head Diameter
Keeper	Both	2005-18	121-1100	1 RD Bead Type
Stem Seal	Int	2005-18	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2005-18	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2005-18	140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh	2005-18	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

TOYOTA / PASSENGER CAR OR TRUCK (Cont'd)

74 3456cc, (3.5L), DOHC, GAS, FI, 24 Valve, 2GR-FE 2GRFE
 (cont.) 2005-18 V6 211 CID BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES
Head Saver Shim	2005-18	230-2205L	New Hgt.-4.6535", Min. Hgt.-4.6435"; NOTE: Left Side
	2005-18	230-2205R	New Hgt.-4.6535", Min. Hgt.-4.6435"; NOTE: Right Side

75 3456cc, (3.5L), DOHC, GAS, FI, 24 Valve, 2GR-FKS 2GR-FKS
 2016-21 V6 211 CID BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 2016-20	SB1527E-1	1.527 O.D., 1.310T I.D., 0.2580 Depth, +30 O/S Available
	Exh 2016-20	SB1288E-1	1.288 O.D., 1.107T I.D., 0.2580 Depth, +30 O/S Available
Valve	Int 2016-20	13086	1.496 Head Diameter
	Exh 2016-20	13087	1.260 Head Diameter
Keeper	Both 2016-20	121-1100	1 RD Bead Type
Stem Seal	Int 2016-20	122-1266	Positive Type, Viton Material, Metal Clad Style
	Exh 2016-20	122-1282	Positive Type, Viton Material, Metal Clad Style
Guide	Exh 2016-20	140-3135	0.2175 I.D., 1.850 Length, 0.4073 O.D., +2 O/S Available

76 3456cc, (3.5L), DOHC, ELECTRIC/GAS, FI, 24 Valve, 2GR-FXE, ""Hybrid"" 2GR-FXE
 2011-16 V6 211 CID BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 2011-16	SB1527E-1	1.527 O.D., 1.310T I.D., 0.2580 Depth, +30 O/S Available
	Exh 2011-16	SB1288E-1	1.288 O.D., 1.107T I.D., 0.2580 Depth, +30 O/S Available
Valve	Int 2011-16	13086	1.496 Head Diameter
	Exh 2011-16	13087	1.260 Head Diameter
Keeper	Both 2011-16	121-1100	1 RD Bead Type
Stem Seal	Int 2011-16	122-1266	Positive Type, Viton Material, Metal Clad Style
	Exh 2011-16	122-1282	Positive Type, Viton Material, Metal Clad Style
Guide	Int 2011-16	140-3134	0.2175 I.D., 1.630 Length, 0.4073 O.D., +2 O/S Available
	Exh 2011-16	140-3135	0.2175 I.D., 1.850 Length, 0.4073 O.D., +2 O/S Available

77 3456cc, (3.5L), DOHC, ELECTRIC/GAS, FI, 24 Valve, 2GR-FXS, ""Hybrid"" 2GR-FXS
 2017-19 V6 211 CID BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 2017-19	SB1527E-1	1.527 O.D., 1.310T I.D., 0.2580 Depth, +30 O/S Available
	Exh 2017-19	SB1288E-1	1.288 O.D., 1.107T I.D., 0.2580 Depth, +30 O/S Available
Valve	Int 2017-19	13086	1.496 Head Diameter
	Exh 2017-19	13087	1.260 Head Diameter
Keeper	Both 2017-19	121-1100	1 RD Bead Type
Stem Seal	Int 2017-19	122-1266	Positive Type, Viton Material, Metal Clad Style
	Exh 2017-19	122-1282	Positive Type, Viton Material, Metal Clad Style
Guide	Exh 2017-19	140-3135	0.2175 I.D., 1.850 Length, 0.4073 O.D., +2 O/S Available

78 3878cc, (3.9L), OHV, GAS, CARB, 12 Valve, F, FJ F-FJ
 1960-74 L6 237 CID BORE - 90mm/3.543"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1960-74	SB1937-51	1 ¹⁵ / ₁₆ O.D., 1.540T I.D., 0.3150 Depth
	Exh 1960-74	SB1625-58	1 ⁵ / ₈ O.D., 1.280T I.D., 0.3150 Depth
Valve	Int 1960-74	10070	1.811 Head Diameter
	Exh 1960-74	10069	1.478 Head Diameter
Stem Seal	Both 1960-74	122-1125	Positive Type, Viton Material, Metal Clad Style
Guide	Int 1960-65	140-7528	0.3160 I.D., 2.765 Length, 0.5645 O.D.
	1966-74	140-7532	0.3155 I.D., 2.130 Length, 0.5535 O.D.

(Cont'd) TOYOTA / PASSENGER CAR OR TRUCK**3878cc, (3.9L), OHV, GAS, CARB, 12 Valve, F, FJ**
1960-74 L6 237 CID**F-FJ 78****BORE - 90mm/3.543''' (cont.)**

PART	YEARS	PART NO.	NOTES	
Guide	Exh	1960-65	140-7527	0.3155 I.D.,2.360 Length,0.5645 O.D.
		1966-74	140-7529	0.3160 I.D.,2.322 Length,0.5525 O.D.
Spring	Both	1960-74	160-1025	2.000 Length

3956cc, (4.0L), OHV, GAS, FI, 12 Valve, Vin F, 3F-E
1988-92 L6 241 CID**3F-E 79****BORE - 94mm/3.70'''**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-92	SB1937-51	1 ¹⁵ / ₁₆ O.D.,1.540T I.D.,0.3150 Depth
	Exh	1988-92	SB1625-58	1 ⁵ / ₈ O.D.,1.280T I.D.,0.3150 Depth
Valve	Int	1988-92	10070	1.811 Head Diameter
	Exh	1988-92	10342S	1.476 Head Diameter,Stellite Face
Keeper	Exh	1988-92	121-1023	1 SQ Bead Type
Stem Seal	Both	1988-92	122-1125	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1988-92	140-7532	0.3155 I.D.,2.130 Length,0.5535 O.D.
	Exh	1988-92	140-7529	0.3160 I.D.,2.322 Length,0.5525 O.D.
Spring	Both	1988-92	160-1025	2.000 Length

3956cc, (4.0L), DOHC, GAS, FI, 24 Valve, 1GR-FE
2003-21 V6 241 CID**1GR-FE 80****BORE - 94mm/3.70'''**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2003-20	SB1527E-1	1.527 O.D.,1.310T I.D.,0.2580 Depth,+30 O/S Available
	Exh	2003-20	SB1288E-1	1.288 O.D.,1.107T I.D.,0.2580 Depth,+30 O/S Available
Valve	Int	2003-15	13088	1.437 Head Diameter
		2010-20	13086	1.496 Head Diameter,W/4.165 O.A.L.
	Exh	2003-15	13089S	1.161 Head Diameter,Stellite Face
		2010-20	13087	1.260 Head Diameter,W/4.345 O.A.L.
Keeper	Both	2003-20	121-1100	1 RD Bead Type
Stem Seal	Int	2003-20	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2003-20	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2003-20	140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh	2003-20	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

4227cc, (4.2L), OHV, GAS, CARB, 12 Valve, Vin F, 2F
1975-87 L6 258 CID**2F 81****BORE - 94mm/3.70'''**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1975-87	SB1937-51	1 ¹⁵ / ₁₆ O.D.,1.540T I.D.,0.3150 Depth
	Exh	1975-87	SB1625-58	1 ⁵ / ₈ O.D.,1.280T I.D.,0.3150 Depth
Valve	Int	1975-87	10070	1.811 Head Diameter
	Exh	1975-87	10069	1.478 Head Diameter
Stem Seal	Both	1975-87	122-1125	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1975-87	140-7528	0.3160 I.D.,2.765 Length,0.5645 O.D.
		1975-87	140-7532	0.3155 I.D.,2.130 Length,0.5535 O.D.
	Exh	1975-87	140-7527	0.3155 I.D.,2.360 Length,0.5645 O.D.
		1975-87	140-7529	0.3160 I.D.,2.322 Length,0.5525 O.D.
Spring	Both	1975-87	160-1025	2.000 Length

4477cc, (4.5L), DOHC, GAS, FI, 24 Valve, Vin D, J, 1FZ-FE
1993-97 L6 273 CID**1FZ-FE 82****BORE - 100mm/3.94'''**

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1993-97	122-1130	Positive Type,Viton Material,Metal Clad Style

TOYOTA / PASSENGER CAR OR TRUCK (Cont'd)

82 4477cc, (4.5L), DOHC, GAS, FI, 24 Valve, Vin D, J, 1FZ-FE 1FZ-FE
 (cont.) 1993-97 L6 273 CID BORE - 100mm/3.94"

PART	YEARS	PART NO.	NOTES	
Guide	Both	1993-97	140-8586	0.2765 I.D., 1.660 Length, 0.4548 O.D., +2 O/S Available

83 4608cc, (4.6L), DOHC, GAS, FI, 32 Valve, 1UR-FE 1UR-FE
 2010-19 V8 281 CID BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2010-19	SB1527E-1	1.527 O.D., 1.310T I.D., 0.2580 Depth, +30 O/S Available
	Exh	2010-19	SB1288E-1	1.288 O.D., 1.107T I.D., 0.2580 Depth, +30 O/S Available
Valve	Int	2010-19	13086	1.496 Head Diameter
	Exh	2010-19	13087	1.260 Head Diameter
Keeper	Both	2010-19	121-1100	1 RD Bead Type
Stem Seal	Int	2010-19	122-1266	Positive Type, Viton Material, Metal Clad Style
	Exh	2010-19	122-1282	Positive Type, Viton Material, Metal Clad Style
Guide	Int	2010-19	140-3134	0.2175 I.D., 1.630 Length, 0.4073 O.D., +2 O/S Available
	Exh	2010-19	140-3135	0.2175 I.D., 1.850 Length, 0.4073 O.D., +2 O/S Available

84 4663cc, (4.7L), DOHC, GAS, FI, 32 Valve, 2UZ-FE 2UZ-FE
 1998-09 V8 285 CID BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1998-09	13273	1.358 Head Diameter
	Exh	1998-09	13274S	1.142 Head Diameter, Stellite Face
Keeper	Both	1998-09	121-1100	1 RD Bead Type
Stem Seal	Both	1998-09	122-1282	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1998-09	140-8584	0.2175 I.D., 1.360 Length, 0.4073 O.D.
	Exh	1998-09	140-8585	0.2175 I.D., 1.590 Length, 0.4075 O.D.
Head Saver Shim		1998-09	230-2195L	Left, New Hgt. - 4.805 - 4.808; Min. Hgt. - N/A
		1998-09	230-2195R	Right, New Hgt. - 4.805 - 4.808; Min. Hgt. - N/A

85 5663cc, (5.7L), DOHC, GAS, FI, 32 Valve, 3UR-FE 3UR-FE
 2007-21 V8 345 CID BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2007-20	SB1527E-1	1.527 O.D., 1.310T I.D., 0.2580 Depth, +30 O/S Available
	Exh	2007-20	SB1288E-1	1.288 O.D., 1.107T I.D., 0.2580 Depth, +30 O/S Available
Valve	Int	2007-20	13086	1.496 Head Diameter
	Exh	2007-20	13087	1.260 Head Diameter
Keeper	Both	2007-20	121-1100	1 RD Bead Type
Stem Seal	Int	2007-20	122-1266	Positive Type, Viton Material, Metal Clad Style
	Exh	2007-20	122-1282	Positive Type, Viton Material, Metal Clad Style
Guide	Int	2007-20	140-3134	0.2175 I.D., 1.630 Length, 0.4073 O.D., +2 O/S Available
	Exh	2007-20	140-3135	0.2175 I.D., 1.850 Length, 0.4073 O.D., +2 O/S Available
Head Saver Shim		2007-21	230-2204L	New Hgt.-4.6455-4.6460", Min. Hgt.-N/A; NOTE: Left Side
		2007-21	230-2204R	New Hgt.-4.6455-4.6460", Min. Hgt.-N/A; NOTE: Right Side

86 5663cc, (5.7L), DOHC, FLEX, FI, 32 Valve, 3UR-FBE 3UR-FBE
 2009-19 V8 345 CID BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2009-19	SB1527E-1	1.527 O.D., 1.310T I.D., 0.2580 Depth, +30 O/S Available
	Exh	2009-19	SB1288E-1	1.288 O.D., 1.107T I.D., 0.2580 Depth, +30 O/S Available
Valve	Int	2009-19	13086	1.496 Head Diameter
	Exh	2009-19	13087	1.260 Head Diameter
Keeper	Both	2009-19	121-1100	1 RD Bead Type

(Cont'd) **TOYOTA / PASSENGER CAR OR TRUCK**

5663cc, (5.7L), DOHC, FLEX, FI, 32 Valve, 3UR-FBE
2009-19 V8 345 CID

3UR-FBE 86
BORE - 94mm/3.70" (cont.)

PART	YEARS	PART NO.	NOTES	
Stem Seal	Int	2009-19	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2009-19	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2009-19	140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh	2009-19	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

TOYOTA / INDUSTRIAL

Engine	Models	Line No.
4 Cylinder		
1345cc, (1.3L), 3P, Gas, SOHC, 8 Valve, ""Industrial""	Industrial	1
1486cc, (1.5L), 5K, Gas, OHV, 8 Valve, ""Forklift""	Forklift	2
1493cc, (1.5L), 4P, Gas, SOHC, 8 Valve, ""Forklift""	Forklift	3
1490cc, (1.5L), 2R, Gas, DOHC, 16 Valve, ""Forklift""	Forklift	4
1994cc, (2.0L), 5R, Gas, OHV, 8 Valve, ""Forklift""	Forklift	5
2237cc, (2.2L), 4Y, Gas, OHV, 8 Valve, ""Forklift""	Forklift	6
2481cc, (2.5L), 2J, Diesel, OHV, 8 Valve, ""Industrial""	Industrial	7
2796cc, (2.8L), 5P, Gas, SOHC, 8 Valve, ""Forklift""	Forklift	8
6 Cylinder		
3576cc, (3.6L), H, Gas, OHV, 12 Valve, ""Industrial""	Industrial	9
3878cc, (3.9L), F, Gas, OHV, 12 Valve, ""Industrial""	Industrial	10
3955cc, (3.9L), 3F, Gas, OHV, 12 Valve, ""Industrial""	Industrial	11
3980cc, (4.0L), 2H, Diesel, OHV, 12 Valve ""Industrial""	Industrial	12
4230cc, (4.2L), 2F, Gas, OHV, 12 Valve, ""Industrial""	Industrial	13

1345cc, (1.3L), 3P, Gas, SOHC, 8 Valve, ""Industrial"" **3P 1**
L4 82 CID BORE - 76.6mm/3.016"

PART	PART NO.	NOTES	
Valve	Int	13060	1.413 Head Diameter,OEM # 13711-23011
	Exh	13070	1.169 Head Diameter,OEM # 13715-23011
Keeper	Both	121-1023	1 SQ Bead Type,OEM # 90913-03005
Guide	Both	140-8170	0.3150 I.D.,2.010 Length,0.5530 O.D.,OEM # 11122-23011
Spring	Both	160-1521	1.801 Length,OEM # 90501-42627

1486cc, (1.5L), 5K, Gas, OHV, 8 Valve, ""Forklift"" **5K 2**
L4 91 CID BORE - 80.5mm/3.1698"

PART	PART NO.	NOTES	
Valve Seat Insert	Int	SB1500-56	1½ O.D.,1.275T I.D.,0.2500 Depth
	Exh	SB1250-50	1¼ O.D.,0.965T I.D.,¼ Depth
Valve	Int	10307	1.417 Head Diameter,OEM # 1371124011
	Exh	10308	1.142 Head Diameter,OEM # 1371524013
Keeper	Both	121-1023	1 SQ Bead Type,OEM # 9091303005
Stem Seal	Both	122-1088	Positive Type,Viton Material,Metal Clad Style,OEM # 9091302075
Guide	Both	140-8170	0.3150 I.D.,2.010 Length,0.5530 O.D.

1493cc, (1.5L), 4P, Gas, SOHC, 8 Valve, ""Forklift"" **4P 3**
L4 91 CID BORE - 76.6mm/3.016"

PART	PART NO.	NOTES	
Valve Seat Insert	Int	SB1625-4	1⅝ O.D.,1⅝ I.D.,7/32 Depth,+20 O/S Available

TOYOTA / INDUSTRIAL (Cont'd)

3 1493cc, (1.5L), 4P, Gas, SOHC, 8 Valve, ""Forklift"" 4P
 (cont.) L4 91 CID BORE - 76.6mm/3.016""

PART		PART NO.	NOTES
Valve	Int	10758	1.493 Head Diameter,OEM # 1371123020, 1 Round Groove & 1 Square Groove
		10760	1.496 Head Diameter,OEM # 1371123021, 1 Square Groove
	Exh	10759	1.168 Head Diameter,OEM # 1371523020, 1 Round Groove & 1 Square Groove
		10761	1.781 Head Diameter,OEM # 1371523021, 1 Square Groove
Keeper	Both	121-1023	1 SQ Bead Type,OEM # 9091303005
Stem Seal	Both	122-1125	Positive Type,Viton Material,Metal Clad Style,OEM # 9091302033
Guide	Both	140-8170	0.3150 I.D.,2.010 Length,0.5530 O.D.,OEM # 1112223011
Spring	Both	160-1521	1.801 Length,OEM # 9050142627

4 1490cc, (1.5L), 2R, Gas, DOHC, 16 Valve, ""Forklift"" 2R
 L4 91 CID BORE - 78mm/3.071""

PART		PART NO.	NOTES
Valve	Int	10770	1.535 Head Diameter,OEM # 1371131012; Square Port Late
		10772	1.575 Head Diameter,OEM # 1371131030; Round Port Early
	Exh	10771	1.300 Head Diameter,OEM # 1371531012; Square Port Late
		10773	1.338 Head Diameter,OEM # 1371531030, Round Port Early
Keeper	Both	121-1023	1 SQ Bead Type,OEM # 9091303005
Guide	Both	140-8170	0.3150 I.D.,2.010 Length,0.5530 O.D.,OEM # 1112231020

5 1994cc, (2.0L), 5R, Gas, OHV, 8 Valve, ""Forklift"" 5R
 L4 122 CID BORE - 88mm/3.464""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
	Exh	SB1562-7		1^{9}/_{16} O.D.,1^{1}/_{4} I.D.,^{1}/_{4} Depth
Valve	Int	10754	1.692 Head Diameter,Late W/ 2 Round Groove Valve, OEM # 1371144012
		10756	1.689 Head Diameter,Late W/ 1 Round Groove Valve, OEM # 1371144013
	Exh	10757	1.453 Head Diameter,Late W/ 1 Round Groove Valve, OEM # 1371544013
Stem Seal	Both	122-1389	Positive Type,Viton Material,Metal Clad Style,Late, OEM # 9091302042
Guide	Both	140-8169	0.3350 I.D.,1.970 Length,0.5530 O.D.,Late, OEM # 1112240011
Spring	Both	160-1523	1.783 Length,Late, OEM # 9050144777
Lifter	Both	VL81	Mechanical Type,OEM # 1375144040

6 2237cc, (2.2L), 4Y, Gas, OHV, 8 Valve, ""Forklift"" 4Y
 L4 137 CID BORE - 81mm/3.189""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-55	1 ¹¹ / ₁₆ O.D.,1.340 I.D.,0.3150 Depth
	Exh	SB1500-58		1^{1}/_{2} O.D.,1.200T I.D.,0.3150 Depth,Optional O/S O.D.
Valve	Int	10322	1.575 Head Diameter,OEM # 1371171010
	Exh	10323	1.417 Head Diameter,OEM # 1371571010
Stem Seal	Both	122-1127	Positive Type,Viton Material,Metal Clad Style,OEM # 9091302065
Guide	Int	140-8201	0.3160 I.D.,1.970 Length,0.5145 O.D.,W/ Snap Ring,OEM # 1112271020
	Exh	140-8202		0.3160 I.D.,2.045 Length,0.5143 O.D.,W/ Snap Ring,OEM # 1112671020
Spring	Both	160-1307	1.846 Length,OEM # 9050147005
Head Saver Shim		230-2150	New Hgt. 4.390-4.410; Min. Hgt. N/A

(Cont'd) TOYOTA / INDUSTRIAL

2481cc, (2.5L), 2J, Diesel, OHV, 8 Valve, ""Industrial"" **2J 7**
 L4 151 CID BORE - 88mm/3.464""

PART		PART NO.	NOTES
Valve	Int	13068	1.594 Head Diameter,OEM # 1371148010, 1371176008
	Exh	13069	1.320 Head Diameter,OEM # 1371548010, 1371576009
Guide	Int	140-8161	0.3555 I.D.,2.365 Length,0.5535 O.D.,OEM # 1112246010
	Exh	140-8168	0.3555 I.D.,2.200 Length,0.5540 O.D.,OEM # 1112646010

2796cc, (2.8L), 5P, Gas, SOHC, 8 Valve, ""Forklift"" **5P 8**
 L4 169 CID BORE - 93mm/3.66""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-9	1 $\frac{3}{4}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{5}{16}$ Depth
	Exh	SB1562-7	1 $\frac{9}{16}$ O.D.,1 $\frac{1}{4}$ I.D., $\frac{1}{4}$ Depth
Valve	Int	10768	1.732 Head Diameter,Late Style Round Groove, OEM # 1371178102
	Exh	10769	1.319 Head Diameter,Late Style Round Groove, OEM # 1371578102
Guide	Int	140-8161	0.3555 I.D.,2.365 Length,0.5535 O.D.,OEM # 1112246010
	Exh	140-8168	0.3555 I.D.,2.200 Length,0.5540 O.D.,OEM # 1112646010

3576cc, (3.6L), H, Gas, OHV, 12 Valve, ""Industrial"" **H 9**
 L6 218 CID BORE - 88mm/3.464""

PART		PART NO.	NOTES
Valve	Int	10762	1.652 Head Diameter,OEM # 1371168010
	Exh	10763	1.370 Head Diameter,OEM # 1371568010
Stem Seal	Both	122-1037	Umbrella Type,Poly Material,Umbrella Style,OEM # 9091302021
Guide	Int	140-8168	0.3555 I.D.,2.200 Length,0.5540 O.D.,OEM # 1112646010
	Exh	140-8161	0.3555 I.D.,2.365 Length,0.5535 O.D.,OEM # 1112246010

3878cc, (3.9L), F, Gas, OHV, 12 Valve, ""Industrial"" **F 10**
 L6 237 CID BORE - 90mm/3.50""

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1937-51	1 $\frac{15}{16}$ O.D.,1.540T I.D.,0.3150 Depth
	Exh	SB1625-58	1 $\frac{7}{8}$ O.D.,1.280T I.D.,0.3150 Depth
Valve	Int	10070	1.811 Head Diameter,OEM # 1371160021
	Exh	10069	1.478 Head Diameter,OEM # 1371560032
Stem Seal	Both	122-1125	Positive Type,Viton Material,Metal Clad Style
Guide	Int	140-7532	0.3155 I.D.,2.130 Length,0.5535 O.D.,OEM # 1112261011
	Exh	140-7529	0.3160 I.D.,2.322 Length,0.5525 O.D.,OEM # 1112661011
Spring	Both	160-1025	2.000 Length,OEM # 9050145342

3955cc, (3.9L), 3F, Gas, OHV, 12 Valve, ""Industrial"" **3F 11**
 L6 241 CID BORE - 94.031mm/3.7020""

PART		PART NO.	NOTES
Valve	Int	10070	1.811 Head Diameter,OEM # 13711-61010
	Exh	10342S	1.476 Head Diameter,Stellite Face,OEM # 13715-61040
Guide	Int	140-7532	0.3155 I.D.,2.130 Length,0.5535 O.D.,OEM # 11122-61011
	Exh	140-7529	0.3160 I.D.,2.322 Length,0.5525 O.D.,OEM # 11126-61011
Spring	Both	160-1025	2.000 Length,OEM # 90501-45342

3980cc, (4.0L), 2H, Diesel, OHV, 12 Valve ""Industrial"" **2H 12**
 L6 243 CID BORE - 91mm/3.50""

PART		PART NO.	NOTES
Valve	Int	10762	1.652 Head Diameter,OEM # 1371168010
	Exh	10763	1.370 Head Diameter,OEM # 1371568010
Guide	Int	140-8168	0.3555 I.D.,2.200 Length,0.5540 O.D.,OEM # 1112646010

TOYOTA / INDUSTRIAL (Cont'd)

12 3980cc, (4.0L), 2H, Diesel, OHV, 12 Valve ""Industrial"" 2H
 (cont.) L6 243 CID BORE - 91mm/3.50""

PART	PART NO.	NOTES
Guide	Exh 140-8161	0.3555 I.D.,2.365 Length,0.5535 O.D.,OEM # 1112246010

13 4230cc, (4.2L), 2F, Gas, OHV, 12 Valve, ""Industrial"" 2F
 L6 258 CID BORE - 94mm/3.70""

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1937-51 Exh SB1625-58	1 ¹⁵ / ₁₆ O.D.,1.540T I.D.,0.3150 Depth 1 ⁵ / ₈ O.D.,1.280T I.D.,0.3150 Depth
Valve	Int 10070 Exh 10069	1.811 Head Diameter,OEM # 1371160021 1.478 Head Diameter,OEM # 1371560032
Stem Seal	Both 122-1125	Positive Type,Viton Material,Metal Clad Style
Guide	Int 140-7528 Exh 140-7527	0.3160 I.D.,2.765 Length,0.5645 O.D.,Early Model, OEM # 1112261011 0.3155 I.D.,2.360 Length,0.5645 O.D.,Early Model, OEM # 1112661011
Spring	Both 160-1025	2.000 Length,OEM # 9050145342

VOLKSWAGEN / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
1395cc, (1.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, CNLA, ""TSi Hybrid TURBO"" (2013-16)	Jetta Hybrid	1
1395cc, (1.4L), DOHC, GAS, FI, 16 Valve, CZTA, ""TSi TURBO"" (2016-18)	Jetta	2
1457cc, (1.5L), SOHC, GAS, CARB, FI, 8 Valve, EH, FX (1978-80)	Rabbit, Scirocco	3
1471cc, (1.5L), SOHC, GAS, CARB, FC, FG, XR, XS, XV, XW, XY, XZ (1974-75)	Dasher, Rabbit, Scirocco	4
1471cc, (1.5L), SOHC, DIESEL, FI, 8 Valve, CK (1977-80)	Dasher, Rabbit	5
1588cc, (1.6L), SOHC, GAS, FI, 8 Valve, EE, EJ, YG, YH, YK (1976-80)	Dasher, Jetta, Rabbit, Rabbit Convertible, Scirocco	6
1588cc, (1.6L), SOHC, DIESEL, FI, 8 Valve, Vin F, G, H, CR, CS, IV, JK, ME (1981-92)	Dasher, Golf, Jetta, Rabbit, Vanagon	7
1588cc, (1.6L), SOHC, DIESEL, FI, 8 Valve, Vin H, CY, MD, MF, ""TURBO"" (1983-86)	Jetta, Quantum	8
1715cc, (1.7L), SOHC, GAS, CARB, FI, 8 Valve, Vin A, B, EN, JF, WT (1981-84)	Jetta, Quantum, Rabbit, Rabbit Convertible, Rabbit Pickup, Scirocco	9
1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin A, B, C, JH (1983-89)	Cabriolet, Jetta, Rabbit, Rabbit Convertible, Scirocco	10
1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin A, B, K, GX, JN, PF, RV, UM (1984-92)	Fox, Golf, Jetta, Quantum	11
1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin B, HT (1985-86)	Golf, Jetta	12
1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin B, RD (1985-88)	Golf, Jetta	13
1780cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin B, C, PL (1987-89)	Golf, Jetta, Scirocco	14
1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin A, B, C, K, 2H, ABG, PF (1987-92)	Cabriolet, Fox, Golf, Jetta	15
1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin B, C, PG, ""Supercharged"" (1990-92)	Corrado	16

(Cont'd) VOLKSWAGEN / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
1781cc, (1.8L), DOHC, GAS, FI, 20 Valve, AEB, APH, ATW, AUG, AWD, AWM, AWP, AWV, AWW, BKF, ""TURBO"" (1998-06)	Beetle, Golf, Jetta, Passat	17
1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, CPKA, ""TURBO"" (2014-18)	Beetle, Jetta, Passat	18
1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, CPRA, ""TURBO"" (2014-18)	Beetle, Jetta, Passat	19
1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, CNSA (2015-16) .	Golf	20
1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, CNSB (2015-16) .	Golf	21
1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, CXBA (2015-19) .	Golf, Golf SportWagen	22
1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, CXBB (2015-19) .	Golf, Golf Alltrack, Golf SportWagen	23
1896cc, (1.9L), SOHC, DIESEL, FI, 8 Valve, Vin G, 1Z, ""TURBO"" (1996-97)	Passat	24
1896cc, (1.9L), SOHC, DIESEL, FI, 8 Valve, Vin F, G, J, AHU, ""TDI TURBO"" (1997-99)	Golf, Jetta, Passat	25
1896cc, (1.9L), SOHC, DIESEL, FI, 8 Valve, Vin F, ALH, ""TDI TURBO"" (1998-04)	Beetle, Golf, Jetta	26
1896cc, (1.9L), SOHC, DIESEL, FI, 8 Valve, BEW, ""TDI TURBO"" (2004-06)	Beetle, Golf, Jetta	27
1896cc, (1.9L), SOHC, DIESEL, FI, 8 Valve, BRM, ""TDI TURBO"" (2005-06)	Jetta	28
1915cc, (1.9L), OHV, GAS, FI, 8 Valve, Vin B, DH (1983-85) .	Transporter, Vanagon	29
1967cc, (2.0L), SOHC, DIESEL, FI, 8 Valve, BHW, ""TDI TURBO"" (2004-05)	Passat	30
1968cc, (2.0L), DOHC, DIESEL, FI, 16 Valve, CBEA, ""TDI TURBO"" (2009-09)	Jetta	31
1968cc, (2.0L), DOHC, DIESEL, FI, 16 Valve, CJAA, ""TDI TURBO"" (2010-14)	Beetle, Golf, Jetta	32
1968cc, (2.0L), DOHC, DIESEL, FI, 16 Valve, CKRA, ""TDI TURBO"" (2012-14)	Passat	33
1968cc, (2.0L), DOHC, DIESEL, FI, 16 Valve, CRUA, ""TDI TURBO"" (2015-15)	Golf, Golf SportWagen	34
1968cc, (2.0L), DOHC, DIESEL, FI, 16 Valve, CVCA, ""TDI TURBO"" (2015-15)	Beetle, Jetta, Passat	35
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin B, C, E, J, 9A (1990-93)	Golf, Jetta, Passat	36
1984cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin A, B, C, L, ABA (1993-02)	Cabrio, Golf, Jetta, Passat	37
1984cc, (2.0L), SOHC, GAS, FI, 8 Valve, AEG, AVH, BBW, BDC, BEV, BGD (1998-06)	Beetle, Golf, Jetta	38
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, BPY, ""TURBO"" (2006-09)	Eos, GTI, Jetta, Passat	39
1984cc, (2.0L), SOHC, GAS, FI, 8 Valve, CBPA (2011-15) . .	Jetta	40
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CBFA, ""TURBO"" (2008-17)	Beetle, CC, Eos, Golf, GTI, Jetta, Passat, Passat CC	41
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CCTA, ""TURBO"" (2008-18)	Beetle, CC, Eos, Golf, GTI, Jetta, Passat, Passat CC, Tiguan, Tiguan Limited	42
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CPLA, ""TURBO"" (2013-18)	Beetle, Jetta	43

VOLKSWAGEN / PASSENGER CAR OR TRUCK (Cont'd)

Engine	Models	Line No.
4 Cylinder		
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CPPA, ""TURBO"" (2014-18)	Beetle, Jetta	44
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CRZA, ""TURBO"" (2012-13)	Golf R	45
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CXCA, ""TURBO"" (2015-16)	GTI	46
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CXCB, ""TURBO"" (2016-18)	GTI	47
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CYFB, ""TURBO"" (2015-17)	Golf R	48
2109cc, (2.1L), OHV, GAS, FI, 8 Valve, Vin B, MV (1986-91)	Transporter, Vanagon	49
5 Cylinder		
2226cc, (2.2L), SOHC, GAS, FI, 10 Valve, Vin B, E, JT, KX (1985-88)	Quantum	50
2459cc, (2.5L), SOHC, GAS, FI, 10 Valve, Vin C, D, E, AAF, ACU (1993-95)	EuroVan, Transporter	51
2480cc, (2.5L), DOHC, GAS, FI, 20 Valve, BGP, BGQ, BPR, BPS (2005-10)	Beetle, Jetta, Rabbit	52
2480cc, (2.5L), DOHC, GAS, FI, 20 Valve, Vin M, CBTA (2008-14)	Beetle, Golf, Jetta, Passat, Rabbit	53
2480cc, (2.5L), DOHC, GAS, FI, 20 Valve, Vin Z, CBUA (2008-14)	Beetle, Golf, Jetta, Passat, Rabbit	54
6 Cylinder		
2771cc, (2.8L), DOHC, GAS, FI, 30 Valve, Vin A, D, H, AHA, ATQ (1998-05)	Passat	55
2771cc, (2.8L), SOHC, GAS, FI, 12 Valve, Vin D, E, F, AAA, AFP, ""VR6"" (1992-01)	Corrado, Golf, Jetta, Passat	56
2792cc, (2.8L), DOHC, GAS, FI, 24 Valve, BDF, ""VR-6"" (2002-05)	Golf, Jetta	57
2967cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, CATA, ""TDI TURBO"" (2009-12)	Touareg	58
2967cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, CNRB, ""TDI TURBO"" (2013-16)	Touareg	59
2995cc, (3.0L), DOHC, ELECTRIC/GAS, FI, 24 Valve, CGFA, ""Hybrid Supercharged"" (2011-15)	Touareg	60
3189cc, (3.2L), DOHC, GAS, FI, 24 Valve, BAA, BJS, BMX, BUB, ""VR6"" (2004-08)	Eos, R32, Touareg	61
3597cc, (3.6L), DOHC, GAS, FI, 24 Valve, BLV, ""VR6"" (2006-11)	CC, Passat, Passat CC	62
3597cc, (3.6L), DOHC, GAS, FI, 24 Valve, BHK, ""VR6"" (2007-10)	Touareg	63
3597cc, (3.6L), DOHC, GAS, FI, 24 Valve, CDVB (2012-18)	Passat	64
3597cc, (3.6L), DOHC, GAS, FI, 24 Valve, CGRA, ""VR6"" (2011-17)	Touareg	65
3597cc, (3.6L), DOHC, GAS, FI, 24 Valve, CNNA, ""VR6"" (2012-17)	CC	66
8 Cylinder		
4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, BAR (2007-09)	Touareg	67
4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, AXQ, BGH (2004-07)	Phaeton, Touareg	68

(Cont'd) VOLKSWAGEN / PASSENGER CAR OR TRUCK

Engine		Models			Line No.
10 Cylinder					
4921cc, (5.0L), SOHC, DIESEL, FI, 20 Valve, BKW, BWF, "TDI TURBO" (2005-08) Touareg 69					
1395cc, (1.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, CNLA, "TSi Hybrid TURBO"					1
2013-16	L4	85 CID	BORE - 74.5mm/2.93"		1.4-CNLA
PART	YEARS	PART NO.		NOTES	
Lifter	Both	2013-16	VL569	Hydraulic Lash Adjuster Type	
1395cc, (1.4L), DOHC, GAS, FI, 16 Valve, CZTA, "TSi TURBO"					2
2016-18	L4	85 CID	BORE - 74.5mm/2.93"		CZTA
PART	YEARS	PART NO.		NOTES	
Lifter	Both	2016-18	VL569	Hydraulic Lash Adjuster Type	
1457cc, (1.5L), SOHC, GAS, CARB, FI, 8 Valve, EH, FX					3
1978-80	L4	90 CID	BORE - 79.5mm/3.13"		VKW1457
PART	YEARS	PART NO.		NOTES	
Valve Seat Insert	Int	1978-80	SB1437-50	17/16 O.D.,1.140T I.D.,0.3050 Depth	
	Exh	1978-80	SB1312-50	15/16 O.D.,1.086T I.D.,0.3050 Depth	
		1978-80	SB1312-56	15/16 O.D.,1.086 I.D.,0.3050 Depth,Optional Straight I.D.	
Keeper	Both	1978-80	121-1020	1 RD Bead Type	
Stem Seal	Both	1978-80	122-1089	Positive Type,Viton Material,Metal Clad Style	
Guide	Both	1978-80	140-7359	0.3155 I.D.,1.435 Length,0.4765 O.D.	
1471cc, (1.5L), SOHC, GAS, CARB, FC, FG, XR, XS, XV, XW, XY, XZ					4
1974-75	L4	90 CID	BORE - 76.5mm/3.01"		VKW1471
PART	YEARS	PART NO.		NOTES	
Valve Seat Insert	Int	1974-75	SB1437-50	17/16 O.D.,1.140T I.D.,0.3050 Depth	
	Exh	1974-75	SB1312-50	15/16 O.D.,1.086T I.D.,0.3050 Depth	
		1974-75	SB1312-56	15/16 O.D.,1.086 I.D.,0.3050 Depth,Optional Straight I.D.	
Keeper	Both	1974-75	121-1020	1 RD Bead Type	
Stem Seal	Both	1974-75	122-1089	Positive Type,Viton Material,Metal Clad Style	
Guide	Both	1974-75	140-7359	0.3155 I.D.,1.435 Length,0.4765 O.D.	
1471cc, (1.5L), SOHC, DIESEL, FI, 8 Valve, CK					5
1977-80	L4	90 CID	BORE - 76.5mm/3.01"		CK
PART	YEARS	PART NO.		NOTES	
Valve Seat Insert	Int	1977-80	SB1437-50	17/16 O.D.,1.140T I.D.,0.3050 Depth	
	Exh	1977-80	SB1312-50	15/16 O.D.,1.086T I.D.,0.3050 Depth	
		1977-80	SB1312-56	15/16 O.D.,1.086 I.D.,0.3050 Depth,Optional Straight I.D.	
Keeper	Both	1977-80	121-1020	1 RD Bead Type	
Stem Seal	Both	1977-80	122-1089	Positive Type,Viton Material,Metal Clad Style	
Guide	Both	1977-80	140-7359	0.3155 I.D.,1.435 Length,0.4765 O.D.	
1588cc, (1.6L), SOHC, GAS, FI, 8 Valve, EE, EJ, YG, YH, YK					6
1976-80	L4	97 CID	BORE - 79.5mm/3.13"		VKW1.6EY
PART	YEARS	PART NO.		NOTES	
Valve Seat Insert	Int	1976-80	SB1437-50	17/16 O.D.,1.140T I.D.,0.3050 Depth	
	Exh	1976-80	SB1312-50	15/16 O.D.,1.086T I.D.,0.3050 Depth	
		1976-80	SB1312-56	15/16 O.D.,1.086 I.D.,0.3050 Depth,Optional Straight I.D.	
Keeper	Both	1976-80	121-1020	1 RD Bead Type	
Stem Seal	Both	1976-80	122-1089	Positive Type,Viton Material,Metal Clad Style	

VOLKSWAGEN / PASSENGER CAR OR TRUCK (Cont'd)

6 1588cc, (1.6L), SOHC, GAS, FI, 8 Valve, EE, EJ, YG, YH, YK VKW1.6EY
 (cont.) 1976-80 L4 97 CID BORE - 79.5mm/3.13"

PART	YEARS	PART NO.	NOTES
Guide	Both	1976-80 140-7359	0.3155 I.D., 1.435 Length, 0.4765 O.D.

7 1588cc, (1.6L), SOHC, DIESEL, FI, 8 Valve, Vin F, G, H, CR, CS, IV, JK, ME VKW1.6D
 1981-92 L4 97 CID BORE - 75.2mm/3.13"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1981-92 1981-92 1981-92	SB1437-50 SB1312-50 SB1312-56	1 ⁷ / ₁₆ O.D., 1.140T I.D., 0.3050 Depth 1 ⁵ / ₁₆ O.D., 1.086T I.D., 0.3050 Depth 1 ⁵ / ₁₆ O.D., 1.086 I.D., 0.3050 Depth, Optional Straight I.D.
Valve	Int Exh	1981-85 1981-85	10367 10370S	1.337 Head Diameter, 4.126 Overall Length, 3 Groove 1.227 Head Diameter, Stellite Face, 4.118 Overall Length, 3 Groove
Keeper	Both	1981-85 1981-92	121-1020 121-1083	1 RD Bead Type 3 RD Bead Type
Stem Seal	Both	1981-92	122-1089	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1981-92	140-7359	0.3155 I.D., 1.435 Length, 0.4765 O.D.
Lifter	Both	1986-92	VL116	Hydraulic Bucket Type

8 1588cc, (1.6L), SOHC, DIESEL, FI, 8 Valve, Vin H, CY, MD, MF, ""TURBO"" VKW1.6TD
 1983-86 L4 97 CID BORE - 79.5mm/3.13"

PART	YEARS	PART NO.	NOTES	
Valve	Int Exh	1983-86 1983-86	10367 10370S	1.337 Head Diameter, 4.126 Overall Length, 3 Groove 1.227 Head Diameter, Stellite Face, 4.118 Overall Length, 3 Groove
Keeper	Both	1983-86	121-1083	3 RD Bead Type
Stem Seal	Both	1983-86	122-1089	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1983-86	140-7359	0.3155 I.D., 1.435 Length, 0.4765 O.D.

9 1715cc, (1.7L), SOHC, GAS, CARB, FI, 8 Valve, Vin A, B, EN, JF, WT VKW1.7
 1981-84 L4 105 CID BORE - 79.5mm/3.13"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1981-84 1981-84 1981-84	SB1437-50 SB1312-50 SB1312-56	1 ⁷ / ₁₆ O.D., 1.140T I.D., 0.3050 Depth 1 ⁵ / ₁₆ O.D., 1.086T I.D., 0.3050 Depth 1 ⁵ / ₁₆ O.D., 1.086 I.D., 0.3050 Depth, Optional Straight I.D.
Keeper	Both	1981-84 1981-84	121-1020 121-1083	1 RD Bead Type 3 RD Bead Type
Stem Seal	Both	1981-84	122-1089	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1981-84	140-7359	0.3155 I.D., 1.435 Length, 0.4765 O.D., Exc. 1982-84 Exh.

10 1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin A, B, C, JH VKW1.8-SC8V
 1983-89 L4 109 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1983-89 1983-89	SB1625-50 SB1375-55	1 ⁵ / ₈ O.D., 1.340T I.D., 0.3070 Depth 1 ³ / ₈ O.D., 1.120 I.D., 0.3250 Depth
Keeper	Both	1983-89	121-1083	3 RD Bead Type
Stem Seal	Both	1983-89	122-1089	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1983-89	140-7359	0.3155 I.D., 1.435 Length, 0.4765 O.D.
Lifter	Both	1983-89	VL116	Hydraulic Bucket Type
Head Saver Shim		1983-89	230-2047	New Hgt. - 5.2380; Min. Hgt. - 5.2150

(Cont'd) VOLKSWAGEN / PASSENGER CAR OR TRUCK**1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin A, B, K, GX, JN, PF, RV,
UM****11**

1984-92

L4 109 CID

VKW1.8-SC8V_GX
BORE - 81mm/3.19"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1984-92	SB1625-50	1% O.D., 1.340T I.D., 0.3070 Depth
	Exh	1984-92	SB1375-55	1% O.D., 1.120 I.D., 0.3250 Depth
Keeper	Both	1984-92	121-1083	3 RD Bead Type
Stem Seal	Both	1984-92	122-1089	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1984-92	140-7359	0.3155 I.D., 1.435 Length, 0.4765 O.D.
Lifter	Both	1984-92	VL116	Hydraulic Bucket Type
Head Saver Shim		1984-92	230-2047	New Hgt. - 5.2380; Min. Hgt. - 5.2150

1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin B, HT**12**

1985-86

L4 109 CID

VKW1.8-SC8V_HT
BORE - 81mm/3.19"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1985-86	SB1625-50	1% O.D., 1.340T I.D., 0.3070 Depth
	Exh	1985-86	SB1375-55	1% O.D., 1.120 I.D., 0.3250 Depth
Keeper	Both	1985-86	121-1083	3 RD Bead Type
Stem Seal	Both	1985-86	122-1089	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1985-86	140-7359	0.3155 I.D., 1.435 Length, 0.4765 O.D.
Lifter	Both	1985-86	VL116	Hydraulic Bucket Type
Head Saver Shim		1985-86	230-2047	New Hgt. - 5.2380; Min. Hgt. - 5.2150

1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin B, RD**13**

1985-88

L4 109 CID

VKW1.8-SC8V_RD
BORE - 81mm/3.19"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1985-88	SB1625-50	1% O.D., 1.340T I.D., 0.3070 Depth
	Exh	1985-88	SB1375-55	1% O.D., 1.120 I.D., 0.3250 Depth
Keeper	Both	1985-88	121-1083	3 RD Bead Type
Stem Seal	Both	1985-88	122-1089	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1985-88	140-7359	0.3155 I.D., 1.435 Length, 0.4765 O.D.
Lifter	Both	1985-88	VL116	Hydraulic Bucket Type
Head Saver Shim		1985-88	230-2047	New Hgt. - 5.2380; Min. Hgt. - 5.2150

1780cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin B, C, PL**14**

1987-89

L4 109 CID

VKW1.8-DC
BORE - 81mm/3.19"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1987-89	SB1312-64	1 $\frac{1}{16}$ O.D., 1.045 I.D., 0.3160 Depth
	Exh	1987-89	SB1125-54	1% O.D., 0.900 I.D., 0.3250 Depth
Stem Seal	Both	1987-89	122-1250	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1987-89	140-8139	0.2765 I.D., 1.488 Length, 0.4763 O.D.
		1987-89	340-1018BR	0.2756 I.D., 1.495 Length, 0.4750 O.D., Optional Bronze Guide
Lifter	Both	1987-89	VL116	Hydraulic Bucket Type
Head Saver Shim		1987-89	230-2047	New Hgt. - 5.2380; Min. Hgt. - 5.2150

1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin A, B, C, K, 2H, ABG, PF**15**

1987-92

L4 109 CID

VKW1.8-SC8V_2H
BORE - 81mm/3.19"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1987-92	SB1625-50	1% O.D., 1.340T I.D., 0.3070 Depth
	Exh	1987-92	SB1375-55	1% O.D., 1.120 I.D., 0.3250 Depth
Keeper	Both	1987-92	121-1083	3 RD Bead Type

VOLKSWAGEN / PASSENGER CAR OR TRUCK (Cont'd)

15 1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin A, B, C, K, 2H, ABG, PF VKW1.8-SC8V_2H
(cont.) 1987-92 L4 109 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Stem Seal	Both	1987-92 122-1089	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1987-92 140-7359	0.3155 I.D.,1.435 Length,0.4765 O.D.
Lifter	Both	1987-92 VL116	Hydraulic Bucket Type
Head Saver Shim		1987-92 230-2047	New Hgt.- 5.2380; Min. Hgt.- 5.2150

16 1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin B, C, PG, VKW1.8-SC8V_PG
"Supercharged" 1990-92 L4 109 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1990-92 SB1625-50	1 $\frac{5}{8}$ O.D.,1.340T I.D.,0.3070 Depth
	Exh	1990-92 SB1375-55	1 $\frac{5}{8}$ O.D.,1.120 I.D.,0.3250 Depth
Keeper	Both	1990-92 121-1083	3 RD Bead Type
Stem Seal	Both	1990-92 122-1089	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1990-92 140-7359	0.3155 I.D.,1.435 Length,0.4765 O.D.
Lifter	Both	1990-92 VL116	Hydraulic Bucket Type
Head Saver Shim		1990-92 230-2047	New Hgt.- 5.2380; Min. Hgt.- 5.2150

17 1781cc, (1.8L), DOHC, GAS, FI, 20 Valve, AEB, APH, ATW, AUG, AWD, AWM, AWP, AWW, AWW, BKF, "TURBO" 1.8-DCT20V
1998-06 L4 109 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1998-06 SB1125-53	1 $\frac{1}{2}$ O.D.,0.890T I.D.,0.2370 Depth,NOTE: Seat May Need To Be Machined .020"- .030" To Achieve Correct Depth
	Exh	1998-06 SB1250-54	1 $\frac{1}{4}$ O.D.,1.010T I.D.,0.2570 Depth,NOTE: Seat May Need To Be Machined .020"- .030" To Achieve Correct Depth
Valve	Int	1998-06 10804S	1.059 Head Diameter,Stellite Face
	Exh	1998-06 10805S	1.177 Head Diameter,Stellite Face,W/.222 Tip To Groove Length, OEM # 058109611E
Keeper	Both	1998-06 121-1098	3 RD Bead Type
Stem Seal	Both	1998-06 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1998-06 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Spring	Int	1998-06 160-1471	1.615 Length
	Exh	1998-06 160-1472	1.725 Length
Lifter	Int	1998-06 VL523	Hydraulic Bucket Type
	Exh	1998-06 VL524	Hydraulic Bucket Type
Head Bolt Set		2000-06 220-1120	Torque To Yield,Services Engine
Head Saver Shim		1998-06 230-2138	New Hgt. - N/A - Min. Hgt. - 5.480"

18 1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, CPKA, "TURBO" CPKA
2014-18 L4 110 CID BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2014-18 121-1098	3 RD Bead Type
Stem Seal	Both	2014-18 122-1363	Positive Type,Viton Material,Metal Clad Style

19 1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, CPRA, "TURBO" CPRA
2014-18 L4 110 CID BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2014-18 121-1098	3 RD Bead Type
Stem Seal	Both	2014-18 122-1363	Positive Type,Viton Material,Metal Clad Style

(Cont'd) VOLKSWAGEN / PASSENGER CAR OR TRUCK

1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, CNSA **CNSA 20**
 2015-16 L4 110 CID BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2015-16 121-1098	3 RD Bead Type

1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, CNSB **CNSB 21**
 2015-16 L4 110 CID BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2015-16 121-1098	3 RD Bead Type

1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, CXBA **CXBA 22**
 2015-19 L4 110 CID BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2015-19 121-1098	3 RD Bead Type

1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, CXBB **CXBB 23**
 2015-19 L4 110 CID BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2015-19 121-1098	3 RD Bead Type
Stem Seal	Both	2015-19 122-1363	Positive Type,Viton Material,Metal Clad Style

1896cc, (1.9L), SOHC, DIESEL, FI, 8 Valve, Vin G, 1Z, ""TURBO"" **1.9-1Z 24**
 1996-97 L4 116 CID BORE - 79.5mm/3.13"

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	1996-97 10731 1996-97 10732S	1.415 Head Diameter,7mm Stem Dia., NOTE: W/ 3.813 Length 1.238 Head Diameter,Stellite Face,7mm Stem Dia., NOTE: W/ 3.813 Length
Keeper	Both	1996-97 121-1128	3 RD Bead Type,W/ 7mm Stem Dia.
Stem Seal	Both	1996-97 122-1250	Positive Type,Viton Material,Metal Clad Style,W/ 7mm Stem Dia.
Guide	Both	1996-97 140-8139 1996-97 340-1018BR	0.2765 I.D.,1.488 Length,0.4763 O.D.,W/ 7mm Stem Dia. 0.2756 I.D.,1.495 Length,0.4750 O.D.,W/ 7mm Stem Dia., Optional Bronze Guide
Spring	Both	1996-97 160-1471	1.615 Length,Inner Only

1896cc, (1.9L), SOHC, DIESEL, FI, 8 Valve, Vin F, G, J, AHU, ""TDI TURBO"" **25**
 1997-99 L4 116 CID VKW1.9-AHU
BORE - 79.5mm/3.13"

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	1997-99 10731 1997-99 10732S	1.415 Head Diameter,7mm Stem Dia., NOTE: W/ 3.813 Length 1.238 Head Diameter,Stellite Face,7mm Stem Dia., NOTE: W/ 3.813 Length
Keeper	Both	1997-99 121-1128	3 RD Bead Type,W/ 7mm Stem Dia.
Stem Seal	Both	1997-99 122-1250	Positive Type,Viton Material,Metal Clad Style,W/ 7mm Stem Dia.
Guide	Both	1997-99 140-8139 1997-99 340-1018BR	0.2765 I.D.,1.488 Length,0.4763 O.D.,W/ 7mm Stem Dia. 0.2756 I.D.,1.495 Length,0.4750 O.D.,W/ 7mm Stem Dia., Optional Bronze Guide
Spring	Both	1997-98 160-1471	1.615 Length,Inner Only

1896cc, (1.9L), SOHC, DIESEL, FI, 8 Valve, Vin F, ALH, ""TDI TURBO"" **26**
 1998-04 L4 116 CID VKW1.9-ALH
BORE - 79.5mm/3.13"

PART	YEARS	PART NO.	NOTES
Valve	Int	1998-03 10731 2004-04 13174	1.415 Head Diameter,7mm Stem Dia., NOTE: W/ 3.813 Length 1.398 Head Diameter,7mm Stem Dia., NOTE: W/ 3.497 Length

VOLKSWAGEN / PASSENGER CAR OR TRUCK (Cont'd)

26 1896cc, (1.9L), SOHC, DIESEL, FI, 8 Valve, Vin F, ALH, ""TDI TURBO"" VKW1.9-ALH
(cont.) 1998-04 L4 116 CID BORE - 79.5mm/3.13""

PART	YEARS	PART NO.	NOTES	
Valve	Exh	1998-03	10732S	1.238 Head Diameter,Stellite Face,7mm Stem Dia., NOTE: W/ 3.813 Length
Keeper	Both	1998-04	121-1128	3 RD Bead Type,W/ 7mm Stem Dia.
Stem Seal	Both	1998-04	122-1250	Positive Type,Viton Material,Metal Clad Style,W/ 7mm Stem Dia.
Guide	Both	1998-04	140-8139	0.2765 I.D.,1.488 Length,0.4763 O.D.,W/ 7mm Stem Dia.
		1998-04	340-1018BR	0.2756 I.D.,1.495 Length,0.4750 O.D.,W/ 7mm Stem Dia., Optional Bronze Guide

27 1896cc, (1.9L), SOHC, DIESEL, FI, 8 Valve, BEW, ""TDI TURBO"" VKW1.9-BEW
2004-06 L4 116 CID BORE - 79.5mm/3.13""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2004-06	10731	1.415 Head Diameter,7mm Stem Dia., NOTE: W/ 3.813 Length
		2004-06	13174	1.398 Head Diameter,7mm Stem Dia., NOTE: W/ 3.497 Length
	Exh	2004-06	10732S	1.238 Head Diameter,Stellite Face,7mm Stem Dia., NOTE: W/ 3.813 Length
Keeper	Both	2004-06	121-1128	3 RD Bead Type,W/ 7mm Stem Dia.
Stem Seal	Both	2004-06	122-1250	Positive Type,Viton Material,Metal Clad Style,W/ 7mm Stem Dia.
Guide	Both	2004-06	140-8139	0.2765 I.D.,1.488 Length,0.4763 O.D.,W/ 7mm Stem Dia.
		2004-06	340-1018BR	0.2756 I.D.,1.495 Length,0.4750 O.D.,W/ 7mm Stem Dia., Optional Bronze Guide

28 1896cc, (1.9L), SOHC, DIESEL, FI, 8 Valve, BRM, ""TDI TURBO"" VKW1.9-BRM
2005-06 L4 116 CID BORE - 79.5mm/3.13""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2005-06	13337	1.415 Head Diameter
	Exh	2005-06	13338S	1.238 Head Diameter,Stellite Face,NOTE: W/3.504 Length
Keeper	Both	2005-06	121-1128	3 RD Bead Type,W/ 7mm Stem Dia.
Stem Seal	Both	2005-06	122-1250	Positive Type,Viton Material,Metal Clad Style,W/ 7mm Stem Dia.

29 1915cc, (1.9L), OHV, GAS, FI, 8 Valve, Vin B, DH DH
1983-85 H4 117 CID BORE - 94mm/3.70""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1983-85	SB1625-50	1 ⁵ / ₈ O.D.,1.340T I.D.,0.3070 Depth
	Exh	1983-85	SB1437-61	1 ⁷ / ₁₆ O.D.,1.162 I.D.,0.3100 Depth
Valve	Int	1983-85	10348	1.570 Head Diameter
	Exh	1983-85	10349S	1.334 Head Diameter,Stellite Face
Keeper	Both	1983-85	121-1083	3 RD Bead Type

30 1967cc, (2.0L), SOHC, DIESEL, FI, 8 Valve, BHW, ""TDI TURBO"" BHW
2004-05 L4 120 CID BORE - 81mm/3.19""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2004-05	13337	1.415 Head Diameter
	Exh	2004-05	13338S	1.238 Head Diameter,Stellite Face,NOTE: W/3.504 Length
Keeper	Both	2004-05	121-1128	3 RD Bead Type
Stem Seal	Both	2004-05	122-1250	Positive Type,Viton Material,Metal Clad Style

(Cont'd) VOLKSWAGEN / PASSENGER CAR OR TRUCK

1968cc, (2.0L), DOHC, DIESEL, FI, 16 Valve, CBEA, ""TDI TURBO"" **CBEA 31**
 2009-09 L4 120 CID BORE - 81mm/3.19""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2009-09 121-1098	3 RD Bead Type
Stem Seal	Both	2009-09 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2009-09 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

1968cc, (2.0L), DOHC, DIESEL, FI, 16 Valve, CJAA, ""TDI TURBO"" **CJAA 32**
 2010-14 L4 120 CID BORE - 81mm/3.19""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2010-14 121-1098	3 RD Bead Type
Stem Seal	Both	2010-14 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2010-14 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

1968cc, (2.0L), DOHC, DIESEL, FI, 16 Valve, CKRA, ""TDI TURBO"" **CKRA 33**
 2012-14 L4 120 CID BORE - 81mm/3.19""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2012-14 121-1098	3 RD Bead Type
Stem Seal	Both	2012-14 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2012-14 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

1968cc, (2.0L), DOHC, DIESEL, FI, 16 Valve, CRUA, ""TDI TURBO"" **CRUA 34**
 2015-15 L4 120 CID BORE - 81mm/3.19""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2015-15 121-1098	3 RD Bead Type
Stem Seal	Both	2015-15 122-1363	Positive Type,Viton Material,Metal Clad Style

1968cc, (2.0L), DOHC, DIESEL, FI, 16 Valve, CVCA, ""TDI TURBO"" **CVCA 35**
 2015-15 L4 120 CID BORE - 81mm/3.19""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2015-15 121-1098	3 RD Bead Type
Stem Seal	Both	2015-15 122-1363	Positive Type,Viton Material,Metal Clad Style

1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin B, C, E, J, 9A **9A 36**
 1990-93 L4 121 CID BORE - 82.5mm/3.25""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1990-93 SB1312-64	1 $\frac{5}{16}$ O.D.,1.045 I.D.,0.3160 Depth
	Exh	1990-93 SB1125-54	1 $\frac{1}{8}$ O.D.,0.900 I.D.,0.3250 Depth
Stem Seal	Both	1990-93 122-1250	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1990-93 140-8139	0.2765 I.D.,1.488 Length,0.4763 O.D.
		1990-93 340-1018BR	0.2756 I.D.,1.495 Length,0.4750 O.D.,Optional Bronze Guide
Lifter	Both	1990-93 VL116	Hydraulic Bucket Type

1984cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin A, B, C, L, ABA **ABA 37**
 1993-02 L4 121 CID BORE - 82.5mm/3.25""

PART	YEARS	PART NO.	NOTES
Valve	Int	1993-95 10554S	1.555 Head Diameter,Stellite Face,0.156 Tip To Groove
		1996-02 10733	1.555 Head Diameter,0.135 Tip To Groove
	Exh	1993-95 10555S	1.295 Head Diameter,Stellite Face,0.126 Tip To Groove
		1996-02 10734S	1.295 Head Diameter,Stellite Face,0.108 Tip To Groove
Keeper	Both	1993-02 121-1128	3 RD Bead Type
Stem Seal	Both	1993-02 122-1250	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1993-02 140-8558	0.2765 I.D.,1.435 Length,0.4763 O.D.

VOLKSWAGEN / PASSENGER CAR OR TRUCK (Cont'd)

37 1984cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin A, B, C, L, ABA
 (cont.) 1993-02 L4 121 CID BORE - 82.5mm/3.25" ABA

PART	YEARS	PART NO.	NOTES
Lifter	Both	1993-02 VL116	Hydraulic Bucket Type

38 1984cc, (2.0L), SOHC, GAS, FI, 8 Valve, AEG, AVH, BBW, BDC, BEV, BGD VKW2.0-SC8V
 1998-06 L4 121 CID BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES
Valve	Int	1998-06 10733	1.555 Head Diameter, 0.135 Tip To Groove
	Exh	1998-06 10734S	1.295 Head Diameter, Stellite Face, 0.108 Tip To Groove
Keeper	Both	1998-06 121-1128	3 RD Bead Type
Stem Seal	Both	1998-06 122-1250	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1998-06 140-8558	0.2765 I.D., 1.435 Length, 0.4763 O.D.
Lifter	Both	1998-06 VL116	Hydraulic Bucket Type
Head Bolt Set		1998-06 220-1108	Torque To Yield, Services Engine

39 1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, BPY, ""TURBO""
 2006-09 L4 121 CID BORE - 82.6mm/3.25" VKW2.0-DCT16V

PART	YEARS	PART NO.	NOTES
Valve	Int	2006-09 13315S	1.333 Head Diameter, Stellite Face
	Exh	2006-09 13316SN	1.102 Head Diameter, Stellite Face, Sodium Filled
Keeper	Both	2006-09 121-1098	3 RD Bead Type
Stem Seal	Both	2006-09 122-1363	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2006-09 140-3159BR	0.2362 I.D., 1.415 Length, 0.4355 O.D.
Lifter	Both	2006-09 VL569	Hydraulic Lash Adjuster Type
Head Bolt Set		2006-09 220-1108	Torque To Yield, Services Engine

40 1984cc, (2.0L), SOHC, GAS, FI, 8 Valve, CBPA
 2011-15 L4 121 CID BORE - 82.5mm/3.25" CBPA

PART	YEARS	PART NO.	NOTES
Valve	Int	2011-15 10733	1.555 Head Diameter
	Exh	2011-15 10734S	1.295 Head Diameter, Stellite Face
Keeper	Both	2011-15 121-1128	3 RD Bead Type
Stem Seal	Both	2011-15 122-1250	Positive Type, Viton Material, Metal Clad Style

41 1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CBFA, ""TURBO""
 2008-17 L4 121 CID BORE - 82.5mm/3.25" CBFA

PART	YEARS	PART NO.	NOTES
Valve	Int	2008-17 13315S	1.333 Head Diameter, Stellite Face
	Exh	2008-17 13316SN	1.102 Head Diameter, Stellite Face, Sodium Filled
Keeper	Both	2008-17 121-1098	3 RD Bead Type
Stem Seal	Both	2008-17 122-1363	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2008-17 140-3159BR	0.2362 I.D., 1.415 Length, 0.4355 O.D.
Lifter	Both	2008-17 VL569	Hydraulic Lash Adjuster Type

42 1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CCTA, ""TURBO""
 2008-18 L4 121 CID BORE - 82.5mm/3.25" CCTA

PART	YEARS	PART NO.	NOTES
Valve	Int	2008-18 13315S	1.333 Head Diameter, Stellite Face
	Exh	2008-18 13316SN	1.102 Head Diameter, Stellite Face, Sodium Filled
Keeper	Both	2008-18 121-1098	3 RD Bead Type
Stem Seal	Both	2008-18 122-1363	Positive Type, Viton Material, Metal Clad Style

(Cont'd) VOLKSWAGEN / PASSENGER CAR OR TRUCK

1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CCTA, ""TURBO"" **CCTA 42**
 2008-18 L4 121 CID BORE - 82.5mm/3.25"" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Both	2008-18	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2008-18	VL569	Hydraulic Lash Adjuster Type

1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CPLA, ""TURBO"" **CPLA 43**
 2013-18 L4 121 CID BORE - 82.5mm/3.25""

PART	YEARS	PART NO.	NOTES	
Valve	Int Exh	2013-13 2013-13	13315S 13316SN	1.333 Head Diameter,Stellite Face 1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2013-18	121-1098	3 RD Bead Type
Stem Seal	Both	2013-18	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-18	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2013-18	VL569	Hydraulic Lash Adjuster Type

1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CPPA, ""TURBO"" **CPPA 44**
 2014-18 L4 121 CID BORE - 82.6mm/3.25""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2014-18	121-1098	3 RD Bead Type
Stem Seal	Both	2014-18	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2014-18	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2018-18	VL569	Hydraulic Lash Adjuster Type

1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CRZA, ""TURBO"" **CRZA 45**
 2012-13 L4 121 CID BORE - 82.6mm/3.25""

PART	YEARS	PART NO.	NOTES	
Valve	Int Exh	2012-13 2012-13	13315S 13316SN	1.333 Head Diameter,Stellite Face 1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2012-13	121-1098	3 RD Bead Type
Stem Seal	Both	2012-13	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2012-13	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2012-13	VL569	Hydraulic Lash Adjuster Type

1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CXCA, ""TURBO"" **CXCA 46**
 2015-16 L4 121 CID BORE - 82.5mm/3.25""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2015-16	121-1098	3 RD Bead Type

1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CXCB, ""TURBO"" **CXCB 47**
 2016-18 L4 121 CID BORE - 82.5mm/3.25""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2016-18	121-1098	3 RD Bead Type
Stem Seal	Both	2016-18	122-1363	Positive Type,Viton Material,Metal Clad Style
Lifter	Both	2016-18	VL569	Hydraulic Lash Adjuster Type

1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CYFB, ""TURBO"" **CYFB 48**
 2015-17 L4 121 CID BORE - 82.5mm/3.25""

PART	YEARS	PART NO.	NOTES	
Valve	Exh	2015-17	13318	1.102 Head Diameter
Keeper	Both	2015-17	121-1098	3 RD Bead Type
Stem Seal	Both	2015-17	122-1363	Positive Type,Viton Material,Metal Clad Style

VOLKSWAGEN / PASSENGER CAR OR TRUCK (Cont'd)

49 2109cc, (2.1L), OHV, GAS, FI, 8 Valve, Vin B, MV MV
 1986-91 H4 129 CID BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1986-91	SB1625-50	1 $\frac{5}{8}$ O.D., 1.340T I.D., 0.3070 Depth
	Exh	1986-91	SB1437-61	1 $\frac{7}{16}$ O.D., 1.162 I.D., 0.3100 Depth
Valve	Int	1986-91	10348	1.570 Head Diameter
	Exh	1986-91	10349S	1.334 Head Diameter, Stellite Face
Keeper	Both	1986-91	121-1083	3 RD Bead Type

50 2226cc, (2.2L), SOHC, GAS, FI, 10 Valve, Vin B, E, JT, KX VKW2.2
 1985-88 L5 136 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1985-88	SB1625-50	1 $\frac{5}{8}$ O.D., 1.340T I.D., 0.3070 Depth
	Exh	1985-88	SB1375-55	1 $\frac{3}{8}$ O.D., 1.120 I.D., 0.3250 Depth
Keeper	Both	1985-88	121-1083	3 RD Bead Type
Stem Seal	Both	1985-88	122-1089	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1985-88	140-7359	0.3155 I.D., 1.435 Length, 0.4765 O.D.
Lifter	Both	1985-88	VL116	Hydraulic Bucket Type

51 2459cc, (2.5L), SOHC, GAS, FI, 10 Valve, Vin C, D, E, AAF, ACU AAF
 1993-95 L5 150 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	1993-95	121-1083	3 RD Bead Type
Stem Seal	Both	1993-95	122-1089	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1993-95	140-7359	0.3155 I.D., 1.435 Length, 0.4765 O.D.
Lifter	Both	1993-95	VL116	Hydraulic Bucket Type

52 2480cc, (2.5L), DOHC, GAS, FI, 20 Valve, BGP, BGQ, BPR, BPS VKW2.5-DC20V
 2005-10 L5 151 CID BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2005-10	13317	1.276 Head Diameter
	Exh	2005-10	13318	1.102 Head Diameter
Keeper	Both	2005-10	121-1098	3 RD Bead Type
Stem Seal	Both	2005-10	122-1363	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2005-10	140-3159BR	0.2362 I.D., 1.415 Length, 0.4355 O.D.
Lifter	Both	2005-10	VL569	Hydraulic Lash Adjuster Type

53 2480cc, (2.5L), DOHC, GAS, FI, 20 Valve, Vin M, CBTA 2.5-CBTA
 2008-14 L5 151 CID BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2008-14	13317	1.276 Head Diameter
	Exh	2008-14	13318	1.102 Head Diameter
Keeper	Both	2008-14	121-1098	3 RD Bead Type
Stem Seal	Both	2008-14	122-1363	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2008-14	140-3159BR	0.2362 I.D., 1.415 Length, 0.4355 O.D.
Lifter	Both	2008-14	VL569	Hydraulic Lash Adjuster Type

54 2480cc, (2.5L), DOHC, GAS, FI, 20 Valve, Vin Z, CBUA 2.5-CBUA
 2008-14 L5 151 CID BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2008-14	13317	1.276 Head Diameter
	Exh	2008-14	13318	1.102 Head Diameter

(Cont'd) VOLKSWAGEN / PASSENGER CAR OR TRUCK**2480cc, (2.5L), DOHC, GAS, FI, 20 Valve, Vin Z, CBUA**
2008-14 L5 151 CID**2.5-CBUA 54**
BORE - 82.5mm/3.25" (cont.)

PART	YEARS	PART NO.	NOTES
Keeper	Both	2008-14 121-1098	3 RD Bead Type
Stem Seal	Both	2008-14 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2008-14 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2008-14 VL569	Hydraulic Lash Adjuster Type

2771cc, (2.8L), DOHC, GAS, FI, 30 Valve, Vin A, D, H, AHA, ATQ
1998-05 V6 169 CID**VKW2.8_AHA_ATQ 55**
BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1998-05 SB1125-53	1½ O.D.,0.890T I.D.,0.2370 Depth,NOTE: Seat May Need To Be Machined .020"- .030" To Achieve Correct Depth
	Exh	1998-05 SB1250-54	1¼ O.D.,1.010T I.D.,0.2570 Depth,NOTE: Seat May Need To Be Machined .020"- .030" To Achieve Correct Depth
Valve	Int	1998-05 10804S	1.059 Head Diameter,Stellite Face
	Exh	1998-05 10803S	1.177 Head Diameter,Stellite Face,W/.157 Tip To Groove Length, OEM # 058109611M
		1998-05 10805S	1.177 Head Diameter,Stellite Face,W/.222 Tip To Groove Length, OEM # 058109611E
Keeper	Both	1998-05 121-1098	3 RD Bead Type
Stem Seal	Both	1998-05 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1998-05 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Spring	Int	1998-05 160-1471	1.615 Length
	Exh	1998-05 160-1472	1.725 Length
Lifter	Int	1998-05 VL523	Hydraulic Bucket Type
	Exh	1998-05 VL524	Hydraulic Bucket Type

2771cc, (2.8L), SOHC, GAS, FI, 12 Valve, Vin D, E, F, AAA, AFP, ""VR6""
1992-01 V6 170 CID**AAA-VR6-12V 56**
BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES
Valve	Int	1992-01 10556	1.535 Head Diameter
Keeper	Both	1992-01 121-1128	3 RD Bead Type
Stem Seal	Both	1992-01 122-1250	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1992-01 140-8139	0.2765 I.D.,1.488 Length,0.4763 O.D.
		1992-01 340-1018BR	0.2756 I.D.,1.495 Length,0.4750 O.D.,Optional Bronze Guide
Lifter	Both	1992-01 VL116	Hydraulic Bucket Type

2792cc, (2.8L), DOHC, GAS, FI, 24 Valve, BDF, ""VR-6""
2002-05 V6 170 CID**BDF-VR6-24V 57**
BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Valve	Int	2002-02 10556	1.535 Head Diameter,W/ 7mm Stem Dia.
Keeper	Both	2002-02 121-1128	3 RD Bead Type,W/ 7mm Stem Dia.
		2002-05 121-1098	3 RD Bead Type,W/ 6mm Stem Dia.
Stem Seal	Both	2002-02 122-1250	Positive Type,Viton Material,Metal Clad Style,W/ 7mm Stem Dia.
		2002-05 122-1363	Positive Type,Viton Material,Metal Clad Style,W/ 6mm Stem Dia.
Guide	Both	2002-02 140-8139	0.2765 I.D.,1.488 Length,0.4763 O.D.,W/ 7mm Stem Dia.
		2002-02 340-1018BR	0.2756 I.D.,1.495 Length,0.4750 O.D.,W/ 7mm Stem Dia., Optional Bronze Guide
		2002-05 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.,W/6mm Stem Dia.

VOLKSWAGEN / PASSENGER CAR OR TRUCK (Cont'd)

58 2967cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, CATA, ""TDI TURBO"" CATA
 2009-12 V6 181 CID BORE - 83mm/3.27""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2009-12 121-1098	3 RD Bead Type
Stem Seal	Both	2009-12 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2009-12 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

59 2967cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, CNRB, ""TDI TURBO"" CNRB
 2013-16 V6 181 CID BORE - 83mm/3.27""

PART	YEARS	PART NO.	NOTES
Keeper	Both	2013-16 121-1098	3 RD Bead Type
Stem Seal	Both	2013-16 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-16 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

60 2995cc, (3.0L), DOHC, ELECTRIC/GAS, FI, 24 Valve, CGFA, ""Hybrid Supercharged"" CGFA
 2011-15 V6 183 CID BORE - 84.5mm/3.33""

PART	YEARS	PART NO.	NOTES
Valve	Int	2011-15 13314	1.333 Head Diameter
	Exh	2011-12 13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2011-15 121-1098	3 RD Bead Type
Stem Seal	Both	2011-15 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2011-15 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2011-15 VL569	Hydraulic Lash Adjuster Type

61 3189cc, (3.2L), DOHC, GAS, FI, 24 Valve, BAA, BJS, BMX, BUB, ""VR6"" VKW3.2-DC24V
 2004-08 V6 195 CID BORE - 84mm/3.31""

PART	YEARS	PART NO.	NOTES
Valve	Int	2004-08 13310	1.307 Head Diameter,136.36mm Overall Length
		2004-08 13312	1.307 Head Diameter,102.46mm Overall Length
	Exh	2004-08 13311S	1.189 Head Diameter,Stellite Face,136.20mm Overall Length
		2004-08 13313S	1.189 Head Diameter,Stellite Face,102.20mm Overall Length
Keeper	Both	2004-08 121-1098	3 RD Bead Type
Stem Seal	Both	2004-08 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2004-08 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

62 3597cc, (3.6L), DOHC, GAS, FI, 24 Valve, BLV, ""VR6"" VKW3.6-BLV
 2006-11 V6 219 CID BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES
Valve	Int	2006-07 13315S	1.333 Head Diameter,Stellite Face
		2008-11 13312	1.307 Head Diameter,102.46mm Overall Length
	Exh	2006-07 13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
		2008-11 13313S	1.189 Head Diameter,Stellite Face,102.20mm Overall Length
Keeper	Both	2006-11 121-1098	3 RD Bead Type
Stem Seal	Both	2006-11 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2006-11 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2006-08 VL569	Hydraulic Lash Adjuster Type

63 3597cc, (3.6L), DOHC, GAS, FI, 24 Valve, BHK, ""VR6"" VKW3.6-BHK
 2007-10 V6 219 CID BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES
Valve	Int	2007-10 13310	1.307 Head Diameter,136.36mm Overall Length
		2007-10 13312	1.307 Head Diameter,102.46mm Overall Length

(Cont'd) VOLKSWAGEN / PASSENGER CAR OR TRUCK**3597cc, (3.6L), DOHC, GAS, FI, 24 Valve, BHK, ""VR6""**
2007-10 V6 219 CID**VKW3.6-BHK 63**
BORE - 89mm/3.50"" (cont.)

PART		YEARS	PART NO.	NOTES
Valve	Exh	2007-10	13311S	1.189 Head Diameter,Stellite Face,136.20mm Overall Length
		2007-10	13313S	1.189 Head Diameter,Stellite Face,102.20mm Overall Length
Keeper	Both	2007-10	121-1098	3 RD Bead Type
Stem Seal	Both	2007-10	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2007-10	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

3597cc, (3.6L), DOHC, GAS, FI, 24 Valve, CDVB
2012-18 V6 219 CID**CDVB 64**
BORE - 89mm/3.50""

PART		YEARS	PART NO.	NOTES
Valve	Int	2012-17	13310	1.307 Head Diameter,136.36mm Overall Length
		2012-17	13312	1.307 Head Diameter,102.46mm Overall Length
	Exh	2012-17	13311S	1.189 Head Diameter,Stellite Face,136.20mm Overall Length
		2012-17	13313S	1.189 Head Diameter,Stellite Face,102.20mm Overall Length
Keeper	Both	2012-17	121-1098	3 RD Bead Type
Stem Seal	Both	2012-17	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2012-17	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

3597cc, (3.6L), DOHC, GAS, FI, 24 Valve, CGRA, ""VR6""
2011-17 V6 219 CID**CGRA 65**
BORE - 89mm/3.50""

PART		YEARS	PART NO.	NOTES
Valve	Int	2011-17	13310	1.307 Head Diameter,136.36mm Overall Length
		2011-17	13312	1.307 Head Diameter,102.46mm Overall Length
	Exh	2011-17	13311S	1.189 Head Diameter,Stellite Face,136.20mm Overall Length
		2011-17	13313S	1.189 Head Diameter,Stellite Face,102.20mm Overall Length
Keeper	Both	2011-17	121-1098	3 RD Bead Type
Stem Seal	Both	2011-17	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2011-17	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

3597cc, (3.6L), DOHC, GAS, FI, 24 Valve, CNNA, ""VR6""
2012-17 V6 219 CID**CNNA 66**
BORE - 89mm/3.50""

PART		YEARS	PART NO.	NOTES
Valve	Int	2012-17	13312	1.307 Head Diameter,102.46mm Overall Length
	Exh	2012-17	13313S	1.189 Head Diameter,Stellite Face,102.20mm Overall Length
Keeper	Both	2012-17	121-1098	3 RD Bead Type
Stem Seal	Both	2012-17	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2012-17	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, BAR
2007-09 V8 254 CID**4.2-BAR 67**
BORE - 84.5mm/3.33""

PART		YEARS	PART NO.	NOTES
Valve	Int	2007-09	13314	1.333 Head Diameter
	Exh	2007-09	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2007-09	121-1098	3 RD Bead Type
Stem Seal	Both	2007-09	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2007-09	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2007-09	VL569	Hydraulic Lash Adjuster Type

VOLKSWAGEN / PASSENGER CAR OR TRUCK (Cont'd)

68 4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, AXQ, BGH
2004-07 V8 254 CID

VKW4.2-DC40V
BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2004-06	13319S	1.059 Head Diameter,Stellite Face
		2007-07	13314	1.333 Head Diameter
	Exh	2004-06	13320SN	1.177 Head Diameter,Stellite Face, Sodium Filled
		2007-07	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2004-07	121-1098	3 RD Bead Type
Stem Seal	Both	2004-07	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2004-07	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

69 4921cc, (5.0L), SOHC, DIESEL, FI, 20 Valve, BKW, BWF, ""TDI TURBO""
2005-08 V10 300 CID

VKW5.0-TDI
BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2006-08	13337	1.415 Head Diameter
	Exh	2006-08	13338S	1.238 Head Diameter,Stellite Face,NOTE: W/3.504 Length
Keeper	Both	2005-08	121-1128	3 RD Bead Type
Stem Seal	Both	2005-08	122-1250	Positive Type,Viton Material,Metal Clad Style

VOLVO / HEAVY DUTY

Engine	Models	Line No.
6 Cylinder		
661 C.I., (10.8L), D11, Diesel, SOHC, 24 Valve, ""TURBO""		1
740 C.I., (12.1L), VED12D, Diesel, SOHC, 24 Valve, ""TURBO""		2
780 C.I., (12.8L), D13, Diesel, SOHC, 24 Valve, ""TURBO""		3
984 C.I., (16.1L), D16, Diesel, SOHC, 24 Valve, ""TURBO""		4

1 661 C.I., (10.8L), D11, Diesel, SOHC, 24 Valve, ""TURBO""
L6 661 CID

D11D
BORE - 123.0mm/4.843"

PART	PART NO.	NOTES	
Valve Seat Insert	Int	SB1658E-1C	1.658 O.D.,1.300R I.D.,0.2880 Depth,OEM # 20737849
	Exh	SB1579E-1C	1.579 O.D.,1.210R I.D.,0.2525 Depth,OEM # 20732758
Valve	Int	13375S	1.575 Head Diameter,Inconel, Stellite Face,OEM # 20737856
	Exh	13376S	1.496 Head Diameter,Stellite Face,OEM # 20564020, 21430918
Keeper	Both	121-1083	3 RD Bead Type
Stem Seal	Both	122-1469	Positive Type,Viton Material,Metal Clad Style,OEM # 20864662, 21990221
Guide	Both	140-3157	0.3157 I.D.,3.285 Length,0.5905 O.D.,OEM # 3165303, 3183283, 20817645, 20904074, 20905400, 20919484
Spring	Both	160-1619	2.765 Length,OEM # 3183211; Inner
		160-1620	3.035 Length,OEM # 3183210, 21310068; Outer
Injector Tubes and Components	240-1046R	Viton Material,O-Ring, Black,OEM # 3165747, 20536487	
	240-1052	Copper Material,Injector Tube,OEM # 20981856, 21274700, 21351717, 85125557; NOTE: Late Copper, Check Casting To Confirm Material; This Sleeve Requires The Use Of An Internal Washer OEM # 21261987; (Use W/ 240-1046R O-Ring)	
	240-1053	Stainless Steel Material,Injector Tube,OEM # 21401136, 85137065; NOTE: Late Stainless Steel; (Use W/ 240-1046R O-Ring)	

(Cont'd) VOLVO / HEAVY DUTY

740 C.I., (12.1L), VED12D, Diesel, SOHC, 24 Valve, ""TURBO"" **VED12D 2**
 L6 740 CID **BORE - 130.988mm/5.1570""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1696E-1C	1.696 O.D.,1.260R I.D.,0.2860 Depth,OEM # 20482579
	Exh	SB1696E-2C	1.696 O.D.,1.295R I.D.,0.3160 Depth,OEM # 3169366, 20412798, 21484834
Valve	Int	13300S	1.575 Head Diameter,Inconel, Stellite Face,OEM # 3169490, 20463800
	Exh	13301S	1.575 Head Diameter,Inconel, Stellite Face,OEM # 8148574, 20441945, 20441486
Keeper	Both	121-1141	1 RD Bead Type,OEM # 1677875
Stem Seal	Both	122-1451	Positive Type,Viton Material,Metal Clad Style,OEM # 859171, 21501189
Guide	Both	140-3157	0.3157 I.D.,3.285 Length,0.5905 O.D.,OEM # 1546437, 3165303, 3183283, 20817645, 20904074, 20905400, 20919484
Spring	Exh	160-1619	2.765 Length,OEM # 3183211; NOTE: Inner Spring For Exhaust
	Both	160-1620	3.035 Length,OEM # 3183210, 21310068; Single Spring For Intake, Outer For Exhaust
Injector Tubes and Components		240-1046R	Viton Material,O-Ring, Black,OEM # 3165747, 20536487
		240-1052	Copper Material,Injector Tube,OEM # 20981856, 21274700, 21351717, 85125557; NOTE: Late Copper, Check Casting To Confirm Material; This Sleeve Requires The Use Of An Internal Washer OEM # 21261987; (Use W/ 240-1046R O-Ring)
		240-1053	Stainless Steel Material,Injector Tube,OEM # 21401136, 85137065; NOTE: Late Stainless Steel; (Use W/ 240-1046R O-Ring)

780 C.I., (12.8L), D13, Diesel, SOHC, 24 Valve, ""TURBO"" **D13D 3**
 L6 780 CID **BORE - 131.00mm/5.157""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1776E-1C	1.776 O.D.,1.340R I.D.,0.2975 Depth,OEM # 2074084; NOTE: With 0.2975"" Depth
	Exh	SB1697E-2	1.697 O.D.,1.300R I.D.,0.2950 Depth,OEM # 20530103; NOTE: With 0.2950"" Depth
Valve	Int	13377S	1.654 Head Diameter,Inconel, Stellite Face,OEM # 20740798
	Exh	13378S	1.575 Head Diameter,Stellite Face,OEM # 20768519
Keeper	Both	121-1083	3 RD Bead Type
Stem Seal	Both	122-1469	Positive Type,Viton Material,Metal Clad Style,OEM # 20864662, 21990221
Guide	Both	140-3157	0.3157 I.D.,3.285 Length,0.5905 O.D.,OEM # 3165303, 3183283, 20817645, 20904074, 20905400, 20919484
Spring	Exh	160-1619	2.765 Length,OEM # 3183211; NOTE: Inner Spring For Exhaust
	Both	160-1620	3.035 Length,OEM # 3183210, 21310068; Single Spring For Intake, Outer For Exhaust
Injector Tubes and Components		240-1046R	Viton Material,O-Ring, Black,OEM # 3165747, 20536487
		240-1052	Copper Material,Injector Tube,OEM # 20981856, 21274700, 21351717, 85125557; NOTE: Late Copper, Check Casting To Confirm Material; This Sleeve Requires The Use Of An Internal Washer OEM # 21261987; (Use W/ 240-1046R O-Ring)
		240-1053	Stainless Steel Material,Injector Tube,OEM # 21401136, 85137065; NOTE: Late Stainless Steel; (Use W/ 240-1046R O-Ring)

984 C.I., (16.1L), D16, Diesel, SOHC, 24 Valve, ""TURBO"" **D16D 4**
 L6 984 CID **BORE - 144.00mm/5.669""**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2051E-6	2.051 O.D.,1.650T I.D.,0.3000 Depth,OEM # 20709467
	Exh	SB1932E-1	1.932 O.D.,1.555R I.D.,0.3075 Depth,OEM # 20564028

VOLVO / HEAVY DUTY (Cont'd)

4 984 C.I., (16.1L), D16, Diesel, SOHC, 24 Valve, ""TURBO"" D16D
 (cont.) L6 984 CID BORE - 144.00mm/5.669""

PART	PART NO.	NOTES
Valve	Int 13434S Exh 13435S	1.931 Head Diameter, Inconel, Stellite Face, OEM # 20739057 1.813 Head Diameter, Inconel, Stellite Face, OEM # 20513285
Keeper	Both 121-1073	1 RD Bead Type, OEM # 8170995
Stem Seal	Both 122-1504	Positive Type, Viton Material, Metal Clad Style, OEM #'S 20787121, 20924435
Guide	Both 140-3207	0.3932 I.D., 3.285 Length, 0.6297 O.D., OEM #'S 20916916, 21067953
Injector Tubes and Components	240-1046R 240-1052 240-1053	Viton Material, O-Ring, Black, OEM # 3165747, 20536487 Copper Material, Injector Tube, OEM # 20981856, 21274700, 21351717, 85125557; NOTE: Late Copper, Check Casting To Confirm Material; This Sleeve Requires The Use Of An Internal Washer OEM # 21261987; (Use W/ 240-1046R O-Ring) Stainless Steel Material, Injector Tube, OEM # 21401136, 85137065; NOTE: Late Stainless Steel; (Use W/ 240-1046R O-Ring)

VOLVO / INDUSTRIAL

Engine **Models** **Line No.**

6 Cylinder

334 C.I., (5.5L), TD61/TD61F, Diesel, OHV, 12 Valve, ""TURBO""	1
334 C.I., (5.5L), TD63, Diesel, OHV, 12 Valve, ""TURBO""	2
410 C.I., (6.7L), TD70 A,B,C,E,F,G,H, Diesel, OHV, 12 Valve, ""TURBO""	3
410 C.I., (6.7L), TD71, Diesel, OHV, 12 Valve, ""TURBO""	4
586 C.I., (9.6L), TD100/TD101/TD102/TD103ES, Diesel, OHV, 12 Valve, ""TURBO""	5
731 C.I., (12.0L), TD120/TD121, Diesel, OHV, 12 Valve, ""TURBO""	6

1 334 C.I., (5.5L), TD61/TD61F, Diesel, OHV, 12 Valve, ""TURBO"" TD61
L6 334 CID BORE - 98.42mm/3.877""

PART	PART NO.	NOTES
Guide	Both 140-3074	0.3152 I.D., 2.540 Length, 0.6297 O.D., OEM # 477877, 477792; Model TD61

2 334 C.I., (5.5L), TD63, Diesel, OHV, 12 Valve, ""TURBO"" TD63
L6 334 CID BORE - 98.42mm/3.877""

PART	PART NO.	NOTES
Guide	Both 140-3074	0.3152 I.D., 2.540 Length, 0.6297 O.D., OEM # 477877, 477792; Model TD63

3 410 C.I., (6.7L), TD70 A,B,C,E,F,G,H, Diesel, OHV, 12 Valve, ""TURBO"" TD70
L6 410 CID BORE - 104.8mm/4.125""

PART	PART NO.	NOTES
Guide	Both 140-3076	0.4349 I.D., 2.593 Length, 0.7084 O.D., OEM # 15451354; Models TD70A, TD70B, TD70C

4 410 C.I., (6.7L), TD71, Diesel, OHV, 12 Valve, ""TURBO"" TD71
L6 410 CID BORE - 104.8mm/4.125""

PART	PART NO.	NOTES
Guide	Both 140-3074	0.3152 I.D., 2.540 Length, 0.6297 O.D., OEM # 477877, 477792

(Cont'd) VOLVO / INDUSTRIAL**586 C.I., (9.6L), TD100/TD101/TD102/TD103ES, Diesel, OHV, 12 Valve, ""TURBO""****5**

TD100C

L6 586 CID

BORE - 120.6mm/4.75""

PART		PART NO.	NOTES
Guide	Int	140-3075	0.4348 I.D.,3.220 Length,0.7084 O.D.,OEM # 4223202
	Exh	140-3076	0.4349 I.D.,2.593 Length,0.7084 O.D.,OEM # 15451354

731 C.I., (12.0L), TD120/TD121, Diesel, OHV, 12 Valve, ""TURBO""

TD120

6

L6 731 CID

BORE - 130.2mm/5.125""

PART		PART NO.	NOTES
Guide	Int	140-3075	0.4348 I.D.,3.220 Length,0.7084 O.D.,OEM # 4223202
	Exh	140-3076	0.4349 I.D.,2.593 Length,0.7084 O.D.,OEM # 15451354

VOLVO / PASSENGER CAR

Engine	Models	Line No.
4 Cylinder		
1948cc, (1.9L), DOHC, GAS, FI, 16 Valve, B4204T3, ""TURBO"" (2001-03)	S40, V40	1
1948cc, (1.9L), DOHC, GAS, FI, 16 Valve, B4204T4, ""TURBO"" (2003-04)	S40, V40	2
1969cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 27, 49, B4204T9, ""Supecharged/TURBO"" (2015-18)	S60, V60, XC60	3
1969cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 40, B4204T11, ""TURBO"" (2015-18)	S60, S60 Cross Country, S80, V60, V60 Cross Country, XC70	4
1969cc, (2.0L), DOHC, GAS, FI, 16 Valve, B4204T12, ""TURBO"" (2016-16)	S60	5
1969cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 40, B4204T18, ""TURBO"" (2019-20)	XC40	6
1969cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 10, B4204T23, ""TURBO"" (2016-21)	S60, S90, V60, V60 Cross Country, V90, V90 Cross Country, XC60, XC90	7
1969cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin A2, B4204T27, ""Supecharged/TURBO"" (2016-21)	S60, S90, V60, V90, V90 Cross Country, XC60, XC90	8
1969cc, (2.0L), DOHC, ELECTRIC/GAS, FI, 16 Valve, B4204T28, ""Supecharged/TURBO Hybrid"" (2016-21)	S60, S90, XC60, XC90	9
1969cc, (2.0L), DOHC, ELECTRIC/GAS, FI, 16 Valve, B4204T39, ""Supercharged/TURBO Hybrid"" (2020-21)	S60, V60, XC60	10
1969cc, (2.0L), DOHC, GAS, FI, 16 Valve, B4204T47, ""TURBO"" (2019-20)	XC40	11
1990cc, (2.0L), OHV, GAS, CARB, FI, 8 Valve, B20A, B20B, B20E, B20F (1969-75)	142, 144, 145, 1800, 242, 244, 245	12
2127cc, (2.1L), SOHC, GAS, FI, 8 Valve, Vin 4, 41, 45, ""B21F"" (1976-82)	242, 244, 245, 264	13
2127cc, (2.1L), SOHC, GAS, FI, 8 Valve, Vin 4, B21FT, ""TURBO"" (1981-85)	242, 244, 245	14
2316cc, (2.3L), SOHC, GAS, FI, 8 Valve, Vin 8, B23F (1983-84)	242, 244, 245	15
2316cc, (2.3L), SOHC, GAS, FI, 8 Valve, Vin 8, B23FT, ""TURBO"" (1984-84)	760	16
2316cc, (2.3L), SOHC, GAS, FI, 8 Valve, Vin 8, 88, B230F, B230FD (1985-95)	240, 244, 245, 740, 745, 940	17
2316cc, (2.3L), SOHC, GAS, FI, 8 Valve, Vin 8, B230FT, ""TURBO"" (1985-95)	740, 745, 760, 780, 940	18

VOLVO / PASSENGER CAR (Cont'd)

Engine	Models	Line No.
5 Cylinder		
2319cc, (2.3L), DOHC, GAS, FI, 20 Valve, B5234FT, ""TURBO"" (1994-94)	850	19
2319cc, (2.3L), DOHC, GAS, FI, 20 Valve, Vin 53, B5234T3, ""TURBO"" (2001-03)	C70, S60, V70	20
2319cc, (2.3L), DOHC, GAS, FI, 20 Valve, B5234T9, ""TURBO"" (2003-04)	C70	21
2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, B5244S (2001-07)	S60, V70	24
2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, B5244S4 (2004-10)	C30, S40, V50	25
2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, B5244S6 (2003-06)	S60, V70	26
2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, B5244S7 (2005-10)	S40, V50	27
2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, Vin 56, B5244T, ""TURBO"" (2000-02)	C70, S70, V70	28
2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, B5244T3, ""TURBO"" (2001-03)	S60, V70	29
2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, B5244T5, ""TURBO"" (2005-09)	S60, V70	30
2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, B5244T7, ""TURBO"" (2003-04)	C70	31
2521cc, (2.5L), DOHC, GAS, FI, 20 Valve, Vin 59, B5254T2, ""TURBO"" (2003-09)	S60, S80, V70, XC70, XC90	32
2521cc, (2.5L), DOHC, GAS, FI, 20 Valve, B5254T3, ""TURBO"" (2004-07)	C70, S40, V50	33
2521cc, (2.5L), DOHC, GAS, FI, 20 Valve, B5254T4, ""TURBO"" (2004-07)	S60, V70	34
2521cc, (2.5L), DOHC, GAS, FI, 20 Valve, B5254T5, ""TURBO"" (2012-12)	S60	35
2521cc, (2.5L), DOHC, GAS, FI, 20 Valve, B5254T7, ""TURBO"" (2008-13)	C30, C70, S40, V50	36
2521cc, (2.5L), DOHC, GAS, FI, 20 Valve, B5254T12, ""TURBO"" (2013-16)	S60, S60 Cross Country, V60, V60 Cross Country, XC70	37
6 Cylinder		
2383cc, (2.4L), SOHC, DIESEL, FI, 12 Valve, Vin 7, D24 (1980-84)	244, 245, 264, 265, 760	22
2383cc, (2.4L), SOHC, DIESEL, FI, 12 Valve, Vin 7, D24T, ""TURBO"" (1983-86)	740, 745, 760	23
2673cc, (2.7L), SOHC, GAS, FI, 12 Valve, B27F (1976-79)	262, 264, 265	38
2849cc, (2.8L), SOHC, GAS, FI, 12 Valve, Vin 6, B28F (1980-85)	262, 264, 265, 760	39
2917cc, (2.9L), DOHC, GAS, FI, 24 Valve, B6294S (2000-03)	S80	40
2917cc, (2.9L), DOHC, GAS, FI, 24 Valve, B6294S2 (2004-04)	S80	41
2917cc, (2.9L), DOHC, GAS, FI, 24 Valve, Vin 91, B6294T, ""TURBO"" (2002-05)	S80, XC90	42
2953cc, (3.0L), DOHC, GAS, FI, 24 Valve, B6304T2, ""TURBO"" (2008-10)	S80, XC70	43
2953cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin 90, B6304T4, ""TURBO"" (2011-16)	S60, S80, V60, XC60, XC70	44

(Cont'd) **VOLVO / PASSENGER CAR**

Engine	Models	Line No.
6 Cylinder		
2980cc, (3.0L), OHV, GAS, CARB, 12 Valve, B30A (1970-71)	164	45
2980cc, (3.0L), OHV, GAS, FI, 12 Valve, B30E (1972-75)	164	46
3192cc, (3.2L), DOHC, GAS, FI, 24 Valve, Vin 98, B6324S (2007-10)	S80, V70, XC70	47
3192cc, (3.2L), DOHC, GAS, FI, 24 Valve, B6324S2 (2010-10)	S80, V70, XC60, XC70	48
3192cc, (3.2L), DOHC, GAS, FI, 24 Valve, Vin 94, B6324S4 (2011-15)	S80, XC60, XC70	49
3192cc, (3.2L), DOHC, GAS, FI, 24 Valve, Vin 95, B6324S5 (2011-15)	S80, XC60, XC70, XC90	50

1948cc, (1.9L), DOHC, GAS, FI, 16 Valve, B4204T3, ""TURBO"" B4204T3 **1**
2001-03 L4 119 CID BORE - 83mm/3.27""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2001-03	13302	1.220 Head Diameter
	Exh	2001-03	13303	1.063 Head Diameter, Inconel
Keeper	Both	2001-03	121-1098	3 RD Bead Type
Stem Seal	Both	2001-03	122-1452	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2001-03	140-3180	0.2364 I.D., 1.778 Length, 0.4720 O.D.

1948cc, (1.9L), DOHC, GAS, FI, 16 Valve, B4204T4, ""TURBO"" B4204T4 **2**
2003-04 L4 119 CID BORE - 83mm/3.27""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2003-04	13302	1.220 Head Diameter
	Exh	2003-04	13303	1.063 Head Diameter, Inconel
Keeper	Both	2003-04	121-1098	3 RD Bead Type
Stem Seal	Both	2003-04	122-1452	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2003-04	140-3180	0.2364 I.D., 1.778 Length, 0.4720 O.D.

1969cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 27, 49, B4204T9, ""Supecharged/TURBO"" B4204T9 **3**
2015-18 L4 120 CID BORE - 82mm/3.23""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2015-18	121-1098	3 RD Bead Type

1969cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 40, B4204T11, ""TURBO"" B4204T11 **4**
2015-18 L4 120 CID BORE - 82mm/3.23""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2015-18	121-1098	3 RD Bead Type

1969cc, (2.0L), DOHC, GAS, FI, 16 Valve, B4204T12, ""TURBO"" B4204T12 **5**
2016-16 L4 120 CID BORE - 82mm/3.23""

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2016-16	121-1098	3 RD Bead Type

1969cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 40, B4204T18, ""TURBO"" B4204T18 **6**
2019-20 L4 120 CID BORE - 82mm/3.23""

PART	YEARS	PART NO.	NOTES
Keeper	2019-20	121-1098	3 RD Bead Type

VOLVO / PASSENGER CAR (Cont'd)

7	1969cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 10, B4204T23, ""TURBO""				B4204T23
	2016-21	L4	120 CID		BORE - 82mm/3.23""
	PART	YEARS	PART NO.	NOTES	
Keeper	Both	2016-20	121-1098	3 RD Bead Type	
8	1969cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin A2, B4204T27, ""Supecharged/TURBO""				B4204T27
	2016-21	L4	120 CID		BORE - 82mm/3.23""
	PART	YEARS	PART NO.	NOTES	
Keeper	Both	2016-20	121-1098	3 RD Bead Type	
9	1969cc, (2.0L), DOHC, ELECTRIC/GAS, FI, 16 Valve, B4204T28, ""Supecharged/TURBO Hybrid""				B4204T28
	2016-21	L4	120 CID		BORE - 82mm/3.23""
	PART	YEARS	PART NO.	NOTES	
Keeper	Both	2016-20	121-1098	3 RD Bead Type	
10	1969cc, (2.0L), DOHC, ELECTRIC/GAS, FI, 16 Valve, B4204T39, ""Supercharged/TURBO Hybrid""				B4204T39
	2020-21	L4	120 CID		BORE - 82mm/3.23""
	PART	YEARS	PART NO.	NOTES	
Keeper	Both	2020-20	121-1098	3 RD Bead Type	
11	1969cc, (2.0L), DOHC, GAS, FI, 16 Valve, B4204T47, ""TURBO""				B4204T47
	2019-20	L4	120 CID		BORE - 82mm/3.23""
	PART	YEARS	PART NO.	NOTES	
Keeper		2019-20	121-1098	3 RD Bead Type	
12	1990cc, (2.0L), OHV, GAS, CARB, FI, 8 Valve, B20A, B20B, B20E, B20F				B20
	1969-75	L4	121 CID		BORE - 89mm/3.50""
	PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1969-75	SB1437-51	1 ⁷ / ₁₆ O.D., 1.130T I.D., 0.2500 Depth	
13	2127cc, (2.1L), SOHC, GAS, FI, 8 Valve, Vin 4, 41, 45, ""B21F""				B21F
	1976-82	L4	130 CID		BORE - 92mm/3.62""
	PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1976-82	SB1875-57	1 ⁷ / ₈ O.D., 1.505T I.D., 0.2800 Depth	
	Exh	1976-82	SB1562-78	1 ⁹ / ₁₆ O.D., 1.230 I.D., 0.2780 Depth	
Valve	Int	1976-82	10406	1.732 Head Diameter	
Keeper	Both	1976-82	121-1083	3 RD Bead Type	
Stem Seal	Both	1976-82	122-1082	Positive Type, Viton Material, Metal Clad Style	
14	2127cc, (2.1L), SOHC, GAS, FI, 8 Valve, Vin 4, B21FT, ""TURBO""				B21FT
	1981-85	L4	130 CID		BORE - 92mm/3.62""
	PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1981-85	SB1875-57	1 ⁷ / ₈ O.D., 1.505T I.D., 0.2800 Depth	
	Exh	1981-85	SB1562-78	1 ⁹ / ₁₆ O.D., 1.230 I.D., 0.2780 Depth	
Valve	Int	1981-85	10406	1.732 Head Diameter	
Keeper	Both	1981-85	121-1083	3 RD Bead Type	
Stem Seal	Both	1981-85	122-1082	Positive Type, Viton Material, Metal Clad Style	
15	2316cc, (2.3L), SOHC, GAS, FI, 8 Valve, Vin 8, B23F				B23F
	1983-84	L4	141 CID		BORE - 96mm/3.78""
	PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1983-84	SB1875-57	1 ⁷ / ₈ O.D., 1.505T I.D., 0.2800 Depth	

(Cont'd) **VOLVO / PASSENGER CAR**

2316cc, (2.3L), SOHC, GAS, FI, 8 Valve, Vin 8, B23F **B23F 15**
1983-84 L4 141 CID **BORE - 96mm/3.78"** (cont.)

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1983-84	SB1562-78	1 $\frac{1}{16}$ O.D.,1.230 I.D.,0.2780 Depth
Valve	Int	1983-84	10406	1.732 Head Diameter
Keeper	Both	1983-84	121-1083	3 RD Bead Type
Stem Seal	Both	1983-84	122-1082	Positive Type,Viton Material,Metal Clad Style

2316cc, (2.3L), SOHC, GAS, FI, 8 Valve, Vin 8, B23FT, ""TURBO"" **B23FT 16**
1984-84 L4 141 CID **BORE - 96mm/3.78"**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1984-84	SB1875-57	1 $\frac{7}{8}$ O.D.,1.505T I.D.,0.2800 Depth
	Exh	1984-84	SB1562-78	1 $\frac{1}{16}$ O.D.,1.230 I.D.,0.2780 Depth
Valve	Int	1984-84	10406	1.732 Head Diameter
Keeper	Both	1984-84	121-1083	3 RD Bead Type

2316cc, (2.3L), SOHC, GAS, FI, 8 Valve, Vin 8, 88, B230F, B230FD **B230F 17**
1985-95 L4 141 CID **BORE - 96mm/3.78"**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1985-95	SB1875-57	1 $\frac{7}{8}$ O.D.,1.505T I.D.,0.2800 Depth
	Exh	1985-95	SB1562-78	1 $\frac{1}{16}$ O.D.,1.230 I.D.,0.2780 Depth
Valve	Int	1985-95	10406	1.732 Head Diameter
Keeper	Both	1985-95	121-1083	3 RD Bead Type
Stem Seal	Int	1985-95	122-1082	Positive Type,Viton Material,Metal Clad Style
Head Saver Shim		1985-95	230-2049	New Hgt.- 5.7530; Min. Hgt.- 5.7320

2316cc, (2.3L), SOHC, GAS, FI, 8 Valve, Vin 8, B230FT, ""TURBO"" **B230FT 18**
1985-95 L4 141 CID **BORE - 96mm/3.78"**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1985-95	SB1875-57	1 $\frac{7}{8}$ O.D.,1.505T I.D.,0.2800 Depth
	Exh	1985-95	SB1562-78	1 $\frac{1}{16}$ O.D.,1.230 I.D.,0.2780 Depth
Valve	Int	1985-95	10406	1.732 Head Diameter
Keeper	Both	1985-95	121-1083	3 RD Bead Type
Stem Seal	Int	1985-95	122-1082	Positive Type,Viton Material,Metal Clad Style
Head Saver Shim		1985-95	230-2049	New Hgt.- 5.7530; Min. Hgt.- 5.7320

2319cc, (2.3L), DOHC, GAS, FI, 20 Valve, B5234FT, ""TURBO"" **B5234FT 19**
1994-94 L5 142 CID **BORE - 81mm/3.19"**

PART		YEARS	PART NO.	NOTES
Guide	Both	1994-96	140-8552	0.2745 I.D.,1.770 Length,0.4723 O.D.

2319cc, (2.3L), DOHC, GAS, FI, 20 Valve, Vin 53, B5234T3, ""TURBO"" **B5234T3 20**
2001-03 L5 142 CID **BORE - 81mm/3.19"**

PART		YEARS	PART NO.	NOTES
Valve	Int	2001-03	13302	1.220 Head Diameter
	Exh	2001-03	13303	1.063 Head Diameter,Inconel
Keeper	Both	2001-03	121-1098	3 RD Bead Type
Stem Seal	Both	2001-03	122-1452	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2001-03	140-3180	0.2364 I.D.,1.778 Length,0.4720 O.D.

VOLVO / PASSENGER CAR (Cont'd)

21 2319cc, (2.3L), DOHC, GAS, FI, 20 Valve, B5234T9, ""TURBO"" B5234T9
 2003-04 L5 142 CID BORE - 81mm/3.19""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2003-04	13302	1.220 Head Diameter
	Exh	2003-04	13303	1.063 Head Diameter,Inconel
Keeper	Both	2003-04	121-1098	3 RD Bead Type
Stem Seal	Both	2003-04	122-1452	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2003-04	140-3180	0.2364 I.D.,1.778 Length,0.4720 O.D.

22 2383cc, (2.4L), SOHC, DIESEL, FI, 12 Valve, Vin 7, D24 D24
 1980-84 L6 145 CID BORE - 76.5mm/3.01""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1980-84	SB1500-62	1½ O.D.,1.220T I.D.,0.3100 Depth
	Exh	1980-84	SB1312-62	1⅝ O.D.,1.065T I.D.,0.2850 Depth
Keeper	Both	1980-84	121-1020	1 RD Bead Type
		1980-84	121-1083	3 RD Bead Type
Stem Seal	Both	1980-84	122-1082	Positive Type,Viton Material,Metal Clad Style

23 2383cc, (2.4L), SOHC, DIESEL, FI, 12 Valve, Vin 7, D24T, ""TURBO"" D24T
 1983-86 L6 145 CID BORE - 76.5mm/3.01""

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1983-86	SB1500-62	1½ O.D.,1.220T I.D.,0.3100 Depth
	Exh	1983-86	SB1312-62	1⅝ O.D.,1.065T I.D.,0.2850 Depth
Keeper	Both	1983-86	121-1020	1 RD Bead Type
		1983-86	121-1083	3 RD Bead Type
Stem Seal	Both	1983-86	122-1082	Positive Type,Viton Material,Metal Clad Style

24 2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, B5244S B5244S
 2001-07 L5 149 CID BORE - 83mm/3.27""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2001-07	13302	1.220 Head Diameter
	Exh	2001-07	13304S	1.063 Head Diameter,Stellite Face
Keeper	Both	2001-07	121-1098	3 RD Bead Type
Stem Seal	Both	2001-07	122-1452	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2001-07	140-3180	0.2364 I.D.,1.778 Length,0.4720 O.D.

25 2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, B5244S4 B5244S4
 2004-10 L5 149 CID BORE - 83mm/3.27""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2004-10	13302	1.220 Head Diameter
	Exh	2004-10	13304S	1.063 Head Diameter,Stellite Face
Keeper	Both	2004-10	121-1098	3 RD Bead Type
Stem Seal	Both	2004-10	122-1452	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2004-10	140-3180	0.2364 I.D.,1.778 Length,0.4720 O.D.

26 2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, B5244S6 B5244S6
 2003-06 L5 149 CID BORE - 83mm/3.27""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2003-06	13302	1.220 Head Diameter
	Exh	2003-06	13304S	1.063 Head Diameter,Stellite Face
Keeper	Both	2003-06	121-1098	3 RD Bead Type
Stem Seal	Both	2003-06	122-1452	Positive Type,Viton Material,Metal Clad Style

(Cont'd) **VOLVO / PASSENGER CAR**

2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, B5244S6 B5244S6 **26**
2003-06 L5 149 CID BORE - 83mm/3.27" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Both	2003-06 140-3180	0.2364 I.D.,1.778 Length,0.4720 O.D.

2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, B5244S7 B5244S7 **27**
2005-10 L5 149 CID BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2005-10 13302 2005-10 13304S	1.220 Head Diameter 1.063 Head Diameter,Stellite Face
Keeper	Both	2005-10 121-1098	3 RD Bead Type
Stem Seal	Both	2005-10 122-1452	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2005-10 140-3180	0.2364 I.D.,1.778 Length,0.4720 O.D.

2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, Vin 56, B5244T, ""TURBO"" B5244T **28**
2000-02 L5 149 CID BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2000-02 13302 2000-02 13303	1.220 Head Diameter 1.063 Head Diameter,Inconel
Keeper	Both	2000-02 121-1098	3 RD Bead Type
Stem Seal	Both	2000-02 122-1452	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2000-02 140-3180	0.2364 I.D.,1.778 Length,0.4720 O.D.

2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, B5244T3, ""TURBO"" B5244T3 **29**
2001-03 L5 149 CID BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2001-03 13302 2001-03 13303	1.220 Head Diameter 1.063 Head Diameter,Inconel
Keeper	Both	2001-03 121-1098	3 RD Bead Type
Stem Seal	Both	2001-03 122-1452	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2001-03 140-3180	0.2364 I.D.,1.778 Length,0.4720 O.D.

2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, B5244T5, ""TURBO"" B5244T5 **30**
2005-09 L5 149 CID BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2005-09 13302 2005-09 13303	1.220 Head Diameter 1.063 Head Diameter,Inconel
Keeper	Both	2005-09 121-1098	3 RD Bead Type
Stem Seal	Both	2005-09 122-1452	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2005-09 140-3180	0.2364 I.D.,1.778 Length,0.4720 O.D.

2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, B5244T7, ""TURBO"" B5244T7 **31**
2003-04 L5 149 CID BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2003-04 13302 2003-04 13303	1.220 Head Diameter 1.063 Head Diameter,Inconel
Keeper	Both	2003-04 121-1098	3 RD Bead Type
Stem Seal	Both	2003-04 122-1452	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2003-04 140-3180	0.2364 I.D.,1.778 Length,0.4720 O.D.

VOLVO / PASSENGER CAR (Cont'd)

32 2521cc, (2.5L), DOHC, GAS, FI, 20 Valve, Vin 59, B5254T2, ""TURBO"" B5254T2
 2003-09 L5 154 CID BORE - 83mm/3.26""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2003-09	13302	1.220 Head Diameter
	Exh	2003-09	13303	1.063 Head Diameter,Inconel
Keeper	Both	2003-09	121-1098	3 RD Bead Type
Stem Seal	Both	2003-09	122-1452	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2003-09	140-3180	0.2364 I.D.,1.778 Length,0.4720 O.D.

33 2521cc, (2.5L), DOHC, GAS, FI, 20 Valve, B5254T3, ""TURBO"" B5254T3
 2004-07 L5 154 CID BORE - 83mm/3.26""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2004-07	13302	1.220 Head Diameter
	Exh	2004-07	13303	1.063 Head Diameter,Inconel
Keeper	Both	2004-07	121-1098	3 RD Bead Type
Stem Seal	Both	2004-07	122-1452	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2004-07	140-3180	0.2364 I.D.,1.778 Length,0.4720 O.D.

34 2521cc, (2.5L), DOHC, GAS, FI, 20 Valve, B5254T4, ""TURBO"" B5254T4
 2004-07 L5 154 CID BORE - 83mm/3.26""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2004-07	13302	1.220 Head Diameter
	Exh	2004-07	13303	1.063 Head Diameter,Inconel
Keeper	Both	2004-07	121-1098	3 RD Bead Type
Stem Seal	Both	2004-07	122-1452	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2004-07	140-3180	0.2364 I.D.,1.778 Length,0.4720 O.D.

35 2521cc, (2.5L), DOHC, GAS, FI, 20 Valve, B5254T5, ""TURBO"" B5254T5
 2012-12 L5 154 CID BORE - 83mm/3.26""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2012-12	13302	1.220 Head Diameter
	Exh	2012-12	13303	1.063 Head Diameter,Inconel
Keeper	Both	2012-12	121-1098	3 RD Bead Type
Stem Seal	Both	2012-12	122-1452	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2012-12	140-3180	0.2364 I.D.,1.778 Length,0.4720 O.D.

36 2521cc, (2.5L), DOHC, GAS, FI, 20 Valve, B5254T7, ""TURBO"" B5254T7
 2008-13 L5 154 CID BORE - 83mm/3.26""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2008-13	13302	1.220 Head Diameter
	Exh	2008-13	13303	1.063 Head Diameter,Inconel
Keeper	Both	2008-13	121-1098	3 RD Bead Type
Stem Seal	Both	2008-13	122-1452	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2008-13	140-3180	0.2364 I.D.,1.778 Length,0.4720 O.D.

37 2521cc, (2.5L), DOHC, GAS, FI, 20 Valve, B5254T12, ""TURBO"" B5254T12
 2013-16 L5 154 CID BORE - 83mm/3.26""

PART	YEARS	PART NO.	NOTES	
Valve	Int	2013-16	13302	1.220 Head Diameter
	Exh	2013-16	13303	1.063 Head Diameter,Inconel
Keeper	Both	2013-16	121-1098	3 RD Bead Type
Stem Seal	Both	2013-16	122-1452	Positive Type,Viton Material,Metal Clad Style

(Cont'd) **VOLVO / PASSENGER CAR**

2521cc, (2.5L), DOHC, GAS, FI, 20 Valve, B5254T12, ""TURBO"" B5254T12 **37**
2013-16 L5 154 CID BORE - 83mm/3.26"" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Both 2013-16	140-3180	0.2364 I.D.,1.778 Length,0.4720 O.D.

2673cc, (2.7L), SOHC, GAS, FI, 12 Valve, B27F B27F **38**
1976-79 V6 163 CID BORE - 88mm/3.47""

PART	YEARS	PART NO.	NOTES
Stem Seal	Both 1976-79	122-1082	Positive Type,Viton Material,Metal Clad Style

2849cc, (2.8L), SOHC, GAS, FI, 12 Valve, Vin 6, B28F B28F **39**
1980-85 V6 174 CID BORE - 90.9mm/3.58""

PART	YEARS	PART NO.	NOTES
Stem Seal	Both 1980-85	122-1082	Positive Type,Viton Material,Metal Clad Style

2917cc, (2.9L), DOHC, GAS, FI, 24 Valve, B6294S B6294S **40**
2000-03 L6 178 CID BORE - 83mm/3.27""

PART	YEARS	PART NO.	NOTES
Keeper	Both 2000-03	121-1098	3 RD Bead Type
Stem Seal	Both 2000-03	122-1452	Positive Type,Viton Material,Metal Clad Style
Guide	Both 2000-03	140-3180	0.2364 I.D.,1.778 Length,0.4720 O.D.

2917cc, (2.9L), DOHC, GAS, FI, 24 Valve, B6294S2 B6294S2 **41**
2004-04 L6 178 CID BORE - 83mm/3.27""

PART	YEARS	PART NO.	NOTES
Valve	Int 2004-04 Exh 2004-04	13302 13304S	1.220 Head Diameter 1.063 Head Diameter,Stellite Face
Keeper	Both 2004-04	121-1098	3 RD Bead Type
Stem Seal	Both 2004-04	122-1452	Positive Type,Viton Material,Metal Clad Style
Guide	Both 2004-04	140-3180	0.2364 I.D.,1.778 Length,0.4720 O.D.

2917cc, (2.9L), DOHC, GAS, FI, 24 Valve, Vin 91, B6294T, ""TURBO"" B6294T **42**
2002-05 L6 178 CID BORE - 83mm/3.27""

PART	YEARS	PART NO.	NOTES
Valve	Int 2002-05 Exh 2002-05	13302 13303	1.220 Head Diameter 1.063 Head Diameter,Inconel
Keeper	Both 2002-05	121-1098	3 RD Bead Type
Stem Seal	Both 2002-05	122-1452	Positive Type,Viton Material,Metal Clad Style
Guide	Both 2002-05	140-3180	0.2364 I.D.,1.778 Length,0.4720 O.D.

2953cc, (3.0L), DOHC, GAS, FI, 24 Valve, B6304T2, ""TURBO"" B6304T2 **43**
2008-10 L6 180 CID BORE - 82mm/3.23""

PART	YEARS	PART NO.	NOTES
Keeper	Both 2008-10	121-1098	3 RD Bead Type

2953cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin 90, B6304T4, ""TURBO"" B6304T4 **44**
2011-16 L6 180 CID BORE - 82mm/3.23""

PART	YEARS	PART NO.	NOTES
Keeper	Both 2011-15	121-1098	3 RD Bead Type

2980cc, (3.0L), OHV, GAS, CARB, 12 Valve, B30A B30A **45**
1970-71 L6 182 CID BORE - 89mm/3.50""

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1970-71	SB1437-51	17/16 O.D.,1.130T I.D.,0.2500 Depth

VOLVO / PASSENGER CAR (Cont'd)

46 2980cc, (3.0L), OHV, GAS, FI, 12 Valve, B30E B30E
 1972-75 L6 182 CID BORE - 88.9mm/3.50"'''

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1972-75 SB1437-51	1 ⁷ / ₁₆ O.D., 1.130T I.D., 0.2500 Depth

47 3192cc, (3.2L), DOHC, GAS, FI, 24 Valve, Vin 98, B6324S B6324S
 2007-10 L6 195 CID BORE - 84mm/3.31"'''

PART	YEARS	PART NO.	NOTES
Keeper	Both	2007-10 121-1098	3 RD Bead Type

48 3192cc, (3.2L), DOHC, GAS, FI, 24 Valve, B6324S2 B6324S2
 2010-10 L6 195 CID BORE - 84mm/3.31"'''

PART	YEARS	PART NO.	NOTES
Keeper	Both	2010-10 121-1098	3 RD Bead Type

49 3192cc, (3.2L), DOHC, GAS, FI, 24 Valve, Vin 94, B6324S4 B6324S4
 2011-15 L6 195 CID BORE - 84mm/3.31"'''

PART	YEARS	PART NO.	NOTES
Keeper	Both	2011-15 121-1098	3 RD Bead Type

50 3192cc, (3.2L), DOHC, GAS, FI, 24 Valve, Vin 95, B6324S5 B6324S5
 2011-15 L6 195 CID BORE - 84mm/3.31"'''

PART	YEARS	PART NO.	NOTES
Keeper	Both	2011-15 121-1098	3 RD Bead Type

WAUKESHA / HEAVY DUTY

Engine	Models	Line No.
4 Cylinder		
144 C.I., (2.4L), 180GKB, Gas, OHV, 8 Valve		1
155 C.I., (2.5L), VRG155, Gas, OHV, 8 Valve		2
6 Cylinder		
310 C.I., (5.1L), VRD310, Diesel, OHV, 12 Valve, "Industrial"		3
554 C.I., (9.1L), 140GZB, Gas, OHV, 12 Valve		4
818 C.I., (13.4L), 145GZB, Gas, OHV, 12 Valve		5
818 C.I., (13.4L), F817G, Gas, OHV, 12 Valve		6
1196 C.I., (19.6L), 6WAKBC, Gas, OHV, 12 Valve		7
1905 C.I., (31.2L), F1905G, Natural Gas, OHV, 12 valve		8
2895 C.I., (47.4L), F2895D, Diesel, OHV, 12 Valve		9
12 Cylinder		
7042 C.I., (115.4L), L7042G, Diesel, OHV, 24 Valve		10
7044 C.I., (115.4L), L7044G, Diesel, OHV, 24 Valve		11
16 Cylinder		
9390 C.I., (153.9L), P9390G, Diesel, OHV, 32 Valve		12

1 144 C.I., (2.4L), 180GKB, Gas, OHV, 8 Valve 180GKB
 L4 144 CID BORE - 92.075mm/3.625"'''

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1562-1	1 ¹ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 7 ¹ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh SB1500-3	
Valve	Int 00912	1.454 Head Diameter, OEM # 180336A

(Cont'd) **WAUKESHA / HEAVY DUTY**

144 C.I., (2.4L), 180GKB, Gas, OHV, 8 Valve **180GKB 1**
L4 144 CID BORE - 92.075mm/3.625" (cont.)

PART		PART NO.	NOTES
Valve	Exh	00793	1.395 Head Diameter,OEM # 190336A
Keeper	Both	121-1000	2 RD Bead Type
Guide	Int	140-1947	0.3745 I.D.,2.500 Length,0.6265 O.D.,OEM # 106608A

155 C.I., (2.5L), VRG155, Gas, OHV, 8 Valve **VRG155 2**
L4 155 CID BORE - 92.075mm/3.625" (cont.)

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1500-3		1^{1}/_{2} O.D.,1^{1}/_{4} I.D.,^{1}/_{4} Depth,+3 O/S Available
Valve	Int	00912	1.454 Head Diameter,OEM # 180336
	Exh	00793	1.395 Head Diameter,OEM # 190336A
Keeper	Both	121-1000	2 RD Bead Type
Guide	Int	140-1952	0.3745 I.D.,2.406 Length,0.6260 O.D.,W/ Old Style Seal, OEM # 222209
		140-7398	0.3745 I.D.,2.406 Length,0.6260 O.D.,W/ New Style Seal, OEM # 224609C
	Exh	140-1953	0.3745 I.D.,2.313 Length,0.6260 O.D.,OEM # 106609A

310 C.I., (5.1L), VRD310, Diesel, OHV, 12 Valve, ""Industrial"" **VRD310 3**
L6 310 CID BORE - 98.4mm/3.874" (cont.)

PART		PART NO.	NOTES
Guide	Both	140-1965	0.3745 I.D.,3.500 Length,0.6260 O.D.,OEM # 164904A

554 C.I., (9.1L), 140GZB, Gas, OHV, 12 Valve **140GZB 4**
L6 554 CID BORE - 114.2mm/4.496" (cont.)

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2187-4	2 ³ / ₁₆ O.D.,1 ⁷ / ₈ I.D., ⁹ / ₃₂ Depth
	Exh	SB1750-0		1^{3}/_{4} O.D.,1^{1}/_{8} I.D.,^{3}/_{8} Depth

818 C.I., (13.4L), 145GZB, Gas, OHV, 12 Valve **145GZB 5**
L6 818 CID BORE - 136.42mm/5.371" (cont.)

PART		PART NO.	NOTES
Valve	Int	00734	2.557 Head Diameter,OEM # 145436-A
	Exh	00819S	2.005 Head Diameter,Stellite Face,OEM # 145336, 145336-A
Guide	Int	140-1593	0.4995 I.D.,5.438 Length,0.8765 O.D.,OEM # 145009

818 C.I., (13.4L), F817G, Gas, OHV, 12 Valve **F817G 6**
L6 818 CID BORE - 136.42mm/5.371" (cont.)

PART		PART NO.	NOTES
Valve	Int	00734	2.557 Head Diameter,OEM # 145436-A
	Exh	00819S	2.005 Head Diameter,Stellite Face,OEM # 145336, 145336-A

1196 C.I., (19.6L), 6WAKBC, Gas, OHV, 12 Valve **6WAKBC 7**
L6 1196 CID BORE - 158.75mm/6.25" (cont.)

PART		PART NO.	NOTES
Valve	Int	00555	2.645 Head Diameter,OEM # 123036-L
	Exh	00554	2.227 Head Diameter,OEM # 123136-G
Guide	Both	140-7476	0.5005 I.D.,4.325 Length,0.8765 O.D.,Non-Flanged, OEM # 125009J

1905 C.I., (31.2L), F1905G, Natural Gas, OHV, 12 valve **F1905G 8**
L6 1905 CID BORE - 177.8mm/7.00" (cont.)

PART		PART NO.	NOTES
Guide	Int	140-6202	0.6245 I.D.,6.000 Length,1.0020 O.D.,OEM # 97109D

WAUKESHA / HEAVY DUTY (Cont'd)

8 1905 C.I., (31.2L), F1905G, Natural Gas, OHV, 12 valve F1905G
 (cont.) L6 1905 CID BORE - 177.8mm/7.00"

PART	PART NO.	NOTES
Guide	Exh 140-6201	0.6245 I.D.,5.188 Length,1.0020 O.D.,OEM # 97009F

9 2895 C.I., (47.4L), F2895D, Diesel, OHV, 12 Valve F2895D
 L6 2895 CID BORE - 215.9mm/8.50"

PART	PART NO.	NOTES
Guide	Int 140-8011	0.5550 I.D.,5.188 Length,1.0020 O.D.,Late Type, Guides Must Be Reamed In Place To .5608/.5615. Always Press Wet Guide Out Toward Valve Seat And In From Valve Seat Side
	Exh 140-7892	
		0.5550 I.D.,5.188 Length,1.0020 O.D.,Use In Cyl. Head W/ Rectangular Water Outlet & Water Cooled Guides

10 7042 C.I., (115.4L), L7042G, Diesel, OHV, 24 Valve L7042G
 V12 7042 CID BORE - 238.125mm/9.375"

PART	PART NO.	NOTES
Guide	Int 140-8011	0.5550 I.D.,5.188 Length,1.0020 O.D.,Late Type, Guides Must Be Reamed In Place To .5608/.5615. Always Press Wet Guide Out Toward Valve Seat And In From Valve Seat Side
	Exh 140-7892	
		0.5550 I.D.,5.188 Length,1.0020 O.D.,Use In Cyl. Head W/ Rectangular Water Outlet & Water Cooled Guides

11 7044 C.I., (115.4L), L7044G, Diesel, OHV, 24 Valve L7044G
 V12 7044 CID BORE - 238.125mm/9.375"

PART	PART NO.	NOTES
Guide	Int 140-3132	0.5620 I.D.,5.520 Length,1.0025 O.D.,OEM # 204209E
	Exh 140-3133	
		0.5620 I.D.,4.820 Length,1.0025 O.D.,OEM # 204209A, 204209D, 204209F

12 9390 C.I., (153.9L), P9390G, Diesel, OHV, 32 Valve P9390G
 V16 9390 CID BORE - 238.125mm/9.375"

PART	PART NO.	NOTES
Guide	Int 140-8011	0.5550 I.D.,5.188 Length,1.0020 O.D.,Late Type, Guides Must Be Reamed In Place To .5608/.5615. Always Press Wet Guide Out Toward Valve Seat And In From Valve Seat Side
	Exh 140-7892	
		0.5550 I.D.,5.188 Length,1.0020 O.D.,Use In Cyl. Head W/ Rectangular Water Outlet & Water Cooled Guides

WISCONSIN / HEAVY DUTY

Engine	Models	Line No.
1 Cylinder		
19 C.I., (.03L), AD, ADH, Gas, OHV, 2 Valve		1
23 C.I., (.04L), AE, AEH, AEM, AEN, Gas, OHV, 2 Valve		2
2 Cylinder		
46 C.I., (.08L), TE, TED, VE4, VE41, VE4D, Gas, OHV, 4 Valve		3
54 C.I., (.09L), TF, TFD, TH, THD, TJD, Gas, OHV, 4 Valve		4
4 Cylinder		
108 C.I., (1.8L), VF4, VF4D, VH4, VH4D, VH4DM, Gas, OHV, 8 Valve		5
154 C.I., (2.5L), V460D, 461D, Diesel, OHV, 8 Valve		6
154 C.I., (2.5L), VG4D, Gas, OHV, 8 Valve, ""Industrial""		7
177 C.I., (2.9L), V465, Gas, OHV, 8 Valve		8

(Cont'd) **WISCONSIN / HEAVY DUTY**

19 C.I., (.03L), AD, ADH, Gas, OHV, 2 Valve AD **1**
L1 19 CID BORE - 69.85mm/2.75"

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1375-5	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., 17/64 Depth
Valve	Both	00249	1.313 Head Diameter
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1723 140-1909	0.3115 I.D., 2.500 Length, 0.5018 O.D., Optional Repair Guide 0.3135 I.D., 2.064 Length, 0.4385 O.D.

23 C.I., (.04L), AE, AEH, AEM, AEN, Gas, OHV, 2 Valve AE **2**
L1 23 CID BORE - 76.2mm/3.00"

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1375-5	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., 17/64 Depth
Valve	Both	00249	1.313 Head Diameter
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1723 140-1909	0.3115 I.D., 2.500 Length, 0.5018 O.D., Optional Repair Guide 0.3135 I.D., 2.064 Length, 0.4385 O.D.

46 C.I., (.08L), TE, TED, VE4, VE41, VE4D, Gas, OHV, 4 Valve T_V3.0 **3**
L2 46 CID BORE - 76.2mm/3.00"

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1375-5	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., 17/64 Depth
Valve	Exh Both	00598S 00249	1.250 Head Diameter, Stellite Face 1.313 Head Diameter
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1723 140-1907	0.3115 I.D., 2.500 Length, 0.5018 O.D., Optional Repair Guide 0.3135 I.D., 1.813 Length, 0.4390 O.D.

54 C.I., (.09L), TF, TFD, TH, THD, TJD, Gas, OHV, 4 Valve T3.25 **4**
L2 54 CID BORE - 82.55mm/3.25"

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1375-5	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., 17/64 Depth
Valve	Exh Both	00598S 00249	1.250 Head Diameter, Stellite Face 1.313 Head Diameter
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1723 140-1909	0.3115 I.D., 2.500 Length, 0.5018 O.D., Optional Repair Guide 0.3135 I.D., 2.064 Length, 0.4385 O.D.

108 C.I., (1.8L), VF4, VF4D, VH4, VH4D, VH4DM, Gas, OHV, 8 Valve V3.25 **5**
L4 108 CID BORE - 82.55mm/3.25"

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1375-5	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., 17/64 Depth
Valve	Exh Both	00598S 00249	1.250 Head Diameter, Stellite Face 1.313 Head Diameter
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1723 140-1909	0.3115 I.D., 2.500 Length, 0.5018 O.D., Optional Repair Guide 0.3135 I.D., 2.064 Length, 0.4385 O.D.

154 C.I., (2.5L), V460D, 461D, Diesel, OHV, 8 Valve V3.5 **6**
L4 154 CID BORE - 88.8mm/3.496"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1625-2 SB1375-5	1 $\frac{3}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{1}{4}$ Depth, Also Available In Non-Magnetic (N) Material 1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., 17/64 Depth

WISCONSIN / HEAVY DUTY (Cont'd)

6 154 C.I., (2.5L), V460D, 461D, Diesel, OHV, 8 Valve V3.5
 (cont.) L4 154 CID BORE - 88.8mm/3.496"

PART	PART NO.	NOTES
Guide	Both 140-6053	0.3435 I.D., 2.125 Length, 0.4695 O.D.

7 154 C.I., (2.5L), VG4D, Gas, OHV, 8 Valve, ""Industrial"" VG4D
 L4 154 CID BORE - 88.8mm/3.496"

PART	PART NO.	NOTES
Guide	Both 140-1908	0.3135 I.D., 2.500 Length, 0.4385 O.D., Also Fits AG, AGN, VM4/D, VP4/D

8 177 C.I., (2.9L), V465, Gas, OHV, 8 Valve V465
 L4 177 CID BORE - 95.2mm/3.748"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1625-2 Exh SB1375-5	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{1}{4}$ Depth, Also Available In Non-Magnetic (N) Material 1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., 17/64 Depth

WITTE / HEAVY DUTY

Engine	Models	Line No.
--------	--------	----------

1 Cylinder		
BD, Diesel, OHV, 2 Valve		1

1 BD, Diesel, OHV, 2 Valve BD
 L1 0 CID BORE - 127.0mm/5.00"

PART	PART NO.	NOTES
Guide	Both 140-6529	0.3745 I.D., 3.625 Length, 0.7520 O.D.

YANMAR / TRACTOR

Engine	Models	Line No.
--------	--------	----------

3 Cylinder		
1,491cc, (1.5L), 3TNE84D, Diesel, OHV, 6 Valve		1
1,491cc, (1.5L), 3TNE84T, Diesel, OHV, 6 Valve, ""N/A & TURBO""		2
1,639cc, (1.6L), 3TNE88, Diesel, OHV, 6 Valve		3
1,639cc, (1.6L), 3TNE88, Diesel, OHV, 6 Valve		4
4 Cylinder		
1,999cc, (2.0L), 4TNE84D, Diesel, OHV, 8 Valve		5
1,999cc, (2.0L), 4TNE84T, Diesel, OHV, 8 Valve, ""TURBO""		6
1,999cc, (2.0L), 4TNE84, Diesel, OHV, 8 Valve		7
1,999cc, (2.0L), 4TNE84T, Diesel, OHV, 16 Valve, ""TURBO""		8
2,098cc, (2.1L), TK486, Diesel, OHV, 8 Valve, ""4 Stroke Water Cooled""		9
2,098cc, (2.1L), TK486V, Diesel, OHV, 8 Valve, ""4 Stroke Water Cooled""		10
2,196cc, (2.2L), 4TNE88, Diesel, OHV, 8 Valve		11
2,196cc, (2.2L), 4TNE88, Diesel, OHV, 8 Valve		12
2,769cc, (2.8L), 4TNE94, Diesel, OHV, 8 Valve	Industrial Forklift	13
3,048cc, (3.1L), 4TNE94, Diesel, OHV, 8 Valve	Industrial Forklift	14
3,310cc, (3.3L), 4TNE98, Diesel, OHV, 8 Valve	Industrial Forklift	15
3,327cc, (3.3L), 4TNE98, Diesel, OHV, 16 Valve	Industrial Forklift	16
4,408cc, (4.4L), 4TNE106D, Diesel, OHV, 8 Valve		17

(Cont'd) YANMAR / TRACTOR

Engine	Models	Line No.
4 Cylinder		
4,408cc, (4.4L), 4TNE106T, Diesel, OHV, 8 Valve, ""TURBO""		18
4,408cc, (4.4L), 4TNV106D, Diesel, OHV, 8 Valve		19
4,408cc, (4.4L), 4TNV106T, Diesel, OHV, 8 Valve, ""TURBO""		20
4,408cc, (4.4L), 4TNV106D, Diesel, OHV, 16 Valve		21
4,408cc, (4.4L), 4TNV106T, Diesel, OHV, 16 Valve, ""TURBO""		22

1,491cc, (1.5L), 3TNE84D, Diesel, OHV, 6 Valve **3TNE84D** **1**
L3 91 CID BORE - 84mm/3.307""

PART	PART NO.		NOTES
Valve	Int	13415	1.378 Head Diameter,OEM # 129100-11100
	Exh	13416	1.181 Head Diameter,OEM # 129100-11130
Keeper	Both	121-1138	1 SQ Bead Type,OEM # 27310-080001
Stem Seal	Int	122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # 124460-11340
	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # 121400-11340
Guide	Int	140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # 120130-11860
	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # 129150-11810
Spring	Both	160-1665	1.760 Length,OEM # 129795-11120

1,491cc, (1.5L), 3TNV84/T, Diesel, OHV, 6 Valve, ""N/A & TURBO"" **3TNV84/T** **2**
L3 91 CID BORE - 84mm/3.307""

PART	PART NO.		NOTES
Valve	Int	13414	1.417 Head Diameter,OEM # 129004-11130
	Exh	13416	1.181 Head Diameter,OEM # 129100-11130
Keeper	Both	121-1138	1 SQ Bead Type,OEM # 27310-080001
Stem Seal	Int	122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # 124460-11340
	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # 121400-11340
Guide	Int	140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # 120130-11860
	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # 129150-11810
Spring	Both	160-1665	1.760 Length,OEM # 129795-11120

1,639cc, (1.6L), 3TNE88, Diesel, OHV, 6 Valve **3TNE88** **3**
L3 100 CID BORE - 88mm/3.465""

PART	PART NO.		NOTES
Valve	Int	13415	1.378 Head Diameter,OEM # 129100-11100
	Exh	13416	1.181 Head Diameter,OEM # 129100-11130
Keeper	Both	121-1138	1 SQ Bead Type,OEM # 27310-080001
Stem Seal	Int	122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # 124460-11340
	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # 121400-11340
Guide	Int	140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # 120130-11860
	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # 129150-11810
Spring	Both	160-1665	1.760 Length,OEM # 129795-11120

1,639cc, (1.6L), 3TNV88, Diesel, OHV, 6 Valve **3TNV88** **4**
L3 100 CID BORE - 88mm/3.465""

PART	PART NO.		NOTES
Valve	Int	13413	1.496 Head Diameter,OEM # 129005-11100
	Exh	13416	1.181 Head Diameter,OEM # 129100-11130

YANMAR / TRACTOR (Cont'd)

4 1,639cc, (1.6L), 3TNV88, Diesel, OHV, 6 Valve 3TNV88
 (cont.) L3 100 CID BORE - 88mm/3.465"

PART		PART NO.	NOTES
Keeper	Both	121-1138	1 SQ Bead Type,OEM # 27310-080001
Stem Seal	Int	122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # 124460-11340
	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # 121400-11340
Guide	Int	140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # 120130-11860
	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # 129150-11810
Spring	Both	160-1665	1.760 Length,OEM # 129795-11120

5 1,999cc, (2.0L), 4TNE84D, Diesel, OHV, 8 Valve 4TNE84D
 L4 122 CID BORE - 84mm/3.307"

PART		PART NO.	NOTES
Valve	Int	13415	1.378 Head Diameter,OEM # 129100-11100
	Exh	13416	1.181 Head Diameter,OEM # 129100-11130
Keeper	Both	121-1138	1 SQ Bead Type,OEM # 27310-080001
Stem Seal	Int	122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # 124460-11340
	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # 121400-11340
Guide	Int	140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # 120130-11860
	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # 129150-11810
Spring	Both	160-1665	1.760 Length,OEM # 129795-11120

6 1,999cc, (2.0L), 4TNE84T, Diesel, OHV, 8 Valve, ""TURBO"" 4TNE84T
 L4 122 CID BORE - 84mm/3.307"

PART		PART NO.	NOTES
Valve	Int	13415	1.378 Head Diameter,OEM # 129100-11100
	Exh	13416	1.181 Head Diameter,OEM # 129100-11130
Keeper	Both	121-1138	1 SQ Bead Type,OEM # 27310-080001
Stem Seal	Int	122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # 124460-11340
	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # 121400-11340
Guide	Int	140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # 120130-11860
	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # 129150-11810
Spring	Both	160-1665	1.760 Length,OEM # 129795-11120

7 1,999cc, (2.0L), 4TNV84, Diesel, OHV, 8 Valve 4TNV84
 L4 122 CID BORE - 84mm/3.307"

PART		PART NO.	NOTES
Valve	Int	13414	1.417 Head Diameter,OEM # 129004-11130
	Exh	13416	1.181 Head Diameter,OEM # 129100-11130
Keeper	Both	121-1138	1 SQ Bead Type,OEM # 27310-080001
Stem Seal	Int	122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # 124460-11340
	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # 121400-11340
Guide	Int	140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # 120130-11860
	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # 129150-11810
Spring	Both	160-1665	1.760 Length,OEM # 129795-11120

8 1,999cc, (2.0L), 4TNV84T, Diesel, OHV, 16 Valve, ""TURBO"" 4TNV84T-16V
 L4 122 CID BORE - 84mm/3.307"

PART		PART NO.	NOTES
Valve	Int	13407	1.102 Head Diameter,OEM # 129508-11100
	Exh	13408	0.965 Head Diameter,OEM # 129508-11110
Keeper	Both	121-1074	1 RD Bead Type

(Cont'd) YANMAR / TRACTOR

1,999cc, (2.0L), 4TNV84T, Diesel, OHV, 16 Valve, ""TURBO"" **4TNV84T-16V 8**
L4 122 CID **BORE - 84mm/3.307"" (cont.)**

PART		PART NO.	NOTES
Stem Seal	Int	122-1480	Positive Type,Viton Material,Metal Clad Style,OEM # 119717-11340
	Exh	122-1481	Positive Type,Viton Material,Metal Clad Style,OEM # 119717-11350
Guide	Both	140-3188	0.2365 I.D.,1.378 Length,0.3945 O.D.,OEM # 119717-11800
Spring	Both	160-1662	1.462 Length,OEM # 129508-11130

2,098cc, (2.1L), TK486, Diesel, OHV, 8 Valve, ""4 Stroke Water Cooled"" **YANTK486 9**
L4 126 CID **BORE - 86mm/3.386""**

PART		PART NO.	NOTES
Valve	Int	13415	1.378 Head Diameter,OEM # 129100-11100
	Exh	13416	1.181 Head Diameter,OEM # 129100-11130
Keeper	Both	121-1138	1 SQ Bead Type,OEM # 27310-080001
Stem Seal	Int	122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # 124460-11340
	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # 121400-11340
Guide	Int	140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # 120130-11860
	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # 129150-11810
Spring	Both	160-1665	1.760 Length,OEM # 129795-11120

2,098cc, (2.1L), TK486V, Diesel, OHV, 8 Valve, ""4 Stroke Water Cooled"" **YANTK486V 10**
L4 126 CID **BORE - 86mm/3.386""**

PART		PART NO.	NOTES
Valve	Int	13414	1.417 Head Diameter,OEM # 129004-11130
	Exh	13416	1.181 Head Diameter,OEM # 129100-11130
Keeper	Both	121-1138	1 SQ Bead Type,OEM # 27310-080001
Stem Seal	Int	122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # 124460-11340
	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # 121400-11340
Guide	Int	140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # 120130-11860
	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # 129150-11810
Spring	Both	160-1665	1.760 Length,OEM # 129795-11120

2,196cc, (2.2L), 4TNE88, Diesel, OHV, 8 Valve **4TNE88 11**
L4 134 CID **BORE - 88mm/3.465""**

PART		PART NO.	NOTES
Valve	Int	13415	1.378 Head Diameter,OEM # 129100-11100
	Exh	13416	1.181 Head Diameter,OEM # 129100-11130
Keeper	Both	121-1138	1 SQ Bead Type,OEM # 27310-080001
Stem Seal	Int	122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # 124460-11340
	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # 121400-11340
Guide	Int	140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # 120130-11860
	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # 129150-11810
Spring	Both	160-1665	1.760 Length,OEM # 129795-11120

2,196cc, (2.2L), 4TNV88, Diesel, OHV, 8 Valve **4TNV88 12**
L4 134 CID **BORE - 88mm/3.465""**

PART		PART NO.	NOTES
Valve	Int	13413	1.496 Head Diameter,OEM # 129005-11100
	Exh	13416	1.181 Head Diameter,OEM # 129100-11130
Keeper	Both	121-1138	1 SQ Bead Type,OEM # 27310-080001
Stem Seal	Int	122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # 124460-11340
	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # 121400-11340

YANMAR / TRACTOR (Cont'd)

12 2,196cc, (2.2L), 4TNV88, Diesel, OHV, 8 Valve 4TNV88
 (cont.) L4 134 CID BORE - 88mm/3.465"

PART		PART NO.	NOTES
Guide	Int	140-3190	0.3158 I.D., 1.930 Length, 0.5128 O.D., OEM # 120130-11860
	Exh	140-3191	0.3158 I.D., 1.810 Length, 0.5128 O.D., OEM # 129150-11810
Spring	Both	160-1665	1.760 Length, OEM # 129795-11120

13 2,769cc, (2.8L), 4TNE94, Diesel, OHV, 8 Valve 4TNE94
 L4 169 CID BORE - 94mm/3.701"

PART		PART NO.	NOTES
Valve	Int	13411	1.614 Head Diameter, OEM # 129900-11100
	Exh	13412	1.378 Head Diameter, OEM # 129900-11110
Keeper	Both	121-1138	1 SQ Bead Type, OEM # 27310-080001
Stem Seal	Both	122-1484	Positive Type, Viton Material, Metal Clad Style, OEM # 121400-11340
Guide	Both	140-3191	0.3158 I.D., 1.810 Length, 0.5128 O.D., OEM # 129150-11810
Spring	Both	160-1664	1.880 Length, OEM # 129900-11120

14 3,048cc, (3.1L), 4TNV94, Diesel, OHV, 8 Valve 4TNV94
 L4 186 CID BORE - 94mm/3.701"

PART		PART NO.	NOTES
Valve	Int	13405	1.299 Head Diameter, OEM # 129907-11100
	Exh	13406	1.102 Head Diameter, OEM # 129907-11110
Keeper	Both	121-1137	1 SQ Bead Type, OEM # 27310-070001
Stem Seal	Both	122-1479	Positive Type, Viton Material, Metal Clad Style, OEM # 124950-11340
Guide	Both	140-3187	0.2760 I.D., 1.695 Length, 0.4735 O.D., OEM # 129907-11800
Spring	Both	160-1661	1.580 Length, OEM # 129907-11120

15 3,310cc, (3.3L), 4TNE98, Diesel, OHV, 8 Valve 4TNE98
 L4 202 CID BORE - 98mm/3.858"

PART		PART NO.	NOTES
Valve	Int	13411	1.614 Head Diameter, OEM # 129900-11100
	Exh	13412	1.378 Head Diameter, OEM # 129900-11110
Keeper	Both	121-1138	1 SQ Bead Type, OEM # 27310-080001
Stem Seal	Both	122-1484	Positive Type, Viton Material, Metal Clad Style, OEM # 121400-11340
Guide	Both	140-3191	0.3158 I.D., 1.810 Length, 0.5128 O.D., OEM # 129150-11810
Spring	Both	160-1664	1.880 Length, OEM # 129900-11120

16 3,327cc, (3.3L), 4TNV98, Diesel, OHV, 16 Valve 4TNV98
 L4 203 CID BORE - 98mm/3.858"

PART		PART NO.	NOTES
Valve	Int	13405	1.299 Head Diameter, OEM # 129907-11100
	Exh	13406	1.102 Head Diameter, OEM # 129907-11110
Keeper	Both	121-1137	1 SQ Bead Type, OEM # 27310-070001
Stem Seal	Both	122-1479	Positive Type, Viton Material, Metal Clad Style, OEM # 124950-11340
Guide	Both	140-3187	0.2760 I.D., 1.695 Length, 0.4735 O.D., OEM # 129907-11800
Spring	Both	160-1661	1.580 Length, OEM # 129907-11120

17 4,408cc, (4.4L), 4TNE106D, Diesel, OHV, 8 Valve 4TNE106D
 L4 269 CID BORE - 106mm/4.173"

PART		PART NO.	NOTES
Valve	Int	13409	1.752 Head Diameter, OEM # 123900-11100
	Exh	13410	1.535 Head Diameter, OEM # 123900-11110

(Cont'd) YANMAR / TRACTOR**4,408cc, (4.4L), 4TNE106D, Diesel, OHV, 8 Valve**

L4 269 CID

4TNE106D 17

BORE - 106mm/4.173"" (cont.)

PART		PART NO.	NOTES
Keeper	Both	121-1139	1 SQ Bead Type,OEM # 27310-090001
Stem Seal	Both	122-1482	Positive Type,Viton Material,Metal Clad Style,OEM # 121850-11150
Guide	Both	140-3189	0.3545 I.D.,1.990 Length,0.5325 O.D.,OEM # 119000-11810
Spring	Both	160-1663	2.006 Length,OEM # 123900-11120

4,408cc, (4.4L), 4TNE106T, Diesel, OHV, 8 Valve, ""TURBO""

L4 269 CID

4TNE106T 18

BORE - 106mm/4.173""

PART		PART NO.	NOTES
Valve	Int Exh	13409 13410	1.752 Head Diameter,OEM # 123900-11100 1.535 Head Diameter,OEM # 123900-11110
Keeper	Both	121-1139	1 SQ Bead Type,OEM # 27310-090001
Stem Seal	Both	122-1482	Positive Type,Viton Material,Metal Clad Style,OEM # 121850-11150
Guide	Both	140-3189	0.3545 I.D.,1.990 Length,0.5325 O.D.,OEM # 119000-11810
Spring	Both	160-1663	2.006 Length,OEM # 123900-11120

4,408cc, (4.4L), 4TNV106D, Diesel, OHV, 8 Valve

L4 269 CID

4TNV106D-8V 19

BORE - 106mm/4.173""

PART		PART NO.	NOTES
Valve	Int Exh	13409 13410	1.752 Head Diameter,OEM # 123900-11100 1.535 Head Diameter,OEM # 123900-11110
Keeper	Both	121-1139	1 SQ Bead Type,OEM # 27310-090001
Stem Seal	Both	122-1482	Positive Type,Viton Material,Metal Clad Style,OEM # 121850-11150
Guide	Both	140-3189	0.3545 I.D.,1.990 Length,0.5325 O.D.,OEM # 119000-11810
Spring	Both	160-1663	2.006 Length,OEM # 123900-11120

4,408cc, (4.4L), 4TNV106T, Diesel, OHV, 8 Valve, ""TURBO""

L4 269 CID

4TNV106T-8V 20

BORE - 106mm/4.173""

PART		PART NO.	NOTES
Valve	Int Exh	13409 13410	1.752 Head Diameter,OEM # 123900-11100 1.535 Head Diameter,OEM # 123900-11110
Keeper	Both	121-1139	1 SQ Bead Type,OEM # 27310-090001
Stem Seal	Both	122-1482	Positive Type,Viton Material,Metal Clad Style,OEM # 121850-11150
Guide	Both	140-3189	0.3545 I.D.,1.990 Length,0.5325 O.D.,OEM # 119000-11810
Spring	Both	160-1663	2.006 Length,OEM # 123900-11120

4,408cc, (4.4L), 4TNV106D, Diesel, OHV, 16 Valve

L4 269 CID

4TNV106D-16V 21

BORE - 106mm/4.173""

PART		PART NO.	NOTES
Valve	Int Exh	13403 13404	1.437 Head Diameter,OEM # 123907-11100 1.220 Head Diameter,OEM # 123907-11110
Keeper	Both	121-1137	1 SQ Bead Type,OEM # 27310-070001
Stem Seal	Both	122-1478	Positive Type,Viton Material,Metal Clad Style,OEM # 124160-11340
Guide	Int Exh	140-3185 140-3186	0.2760 I.D.,1.910 Length,0.4735 O.D.,OEM # 123907-11800 0.2760 I.D.,1.770 Length,0.4735 O.D.,OEM # 123907-11810
Spring	Both	160-1660	1.739 Length,OEM # 123907-11120

YANMAR / TRACTOR (Cont'd)

22 4,408cc, (4.4L), 4TNV106T, Diesel, OHV, 16 Valve, ""TURBO""
L4 269 CID

4TNV106T-16V
BORE - 106mm/4.173""

PART		PART NO.	NOTES
Valve	Int	13403	1.437 Head Diameter,OEM # 123907-11100
	Exh	13404	1.220 Head Diameter,OEM # 123907-11110
Keeper	Both	121-1137	1 SQ Bead Type,OEM # 27310-070001
Stem Seal	Both	122-1478	Positive Type,Viton Material,Metal Clad Style,OEM # 124160-11340
Guide	Int	140-3185	0.2760 I.D.,1.910 Length,0.4735 O.D.,OEM # 123907-11800
	Exh	140-3186	0.2760 I.D.,1.770 Length,0.4735 O.D.,OEM # 123907-11810
Spring	Both	160-1660	1.739 Length,OEM # 123907-11120

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB1000-1	3/4		1	3/16	45	
SB1000-2	13/16		1	3/16	45	
SB1000-3	1/2		1	7/16	45	
SB1043E-1N	20.5mm		26.5mm	6.5mm	45	
SB1062-2	7/8		1 1/16	3/16	45	
SB1062-3	25/32		1 1/16	3/16	45	
SB1062-4	25/32		1 1/16	1/4	45	
SB1062-5	13/16		1 1/16	3/16	45	
SB1062-50	0.790		1 1/16	0.2540	45	
SB1062-51	0.870		1 1/16	0.1950	45	
SB1062-6	9/16		1 1/16	7/16	45	
SB1083E-2N	21.5mm		27.5mm	6.5mm	45	
SB1088E-1	0.890T	0.955	1.088	0.2210	45	
SB1102E-1	20mm		28mm	8mm	45	
SB1102E-1N	20mm		28mm	8mm	45	
SB1122E-1N	22mm		28.5mm	7mm	45	
SB1125-1	7/8		1 1/8	7/32	45	
SB1125-10	3/4		1 1/8	1/4	45	
SB1125-11	5/8		1 1/8	7/16	45	
SB1125-2	13/16		1 1/8	3/16	45	
SB1125-4	7/8		1 1/8	1/4	45	
SB1125-5	7/8		1 1/8	3/16	45	
SB1125-51	0.854		1 1/8	0.2370	45	
SB1125-52	0.825T	0.925	1 1/8	0.2850	45	
SB1125-53	0.890T	0.976	1 1/8	0.2370	45	
SB1125-54	0.900		1 1/8	0.3250	45	
SB1125-55	0.830		1 1/8	0.2400	45	
SB1125-6	15/16		1 1/8	3/16	45	
SB1125-7	7/8		1 1/8	5/16	45	
SB1125-8	15/16		1 1/8	7/32	45	
SB1142E-2	21mm		29mm	8.5mm	45	
SB1142E-2N	21mm		29mm	8.5mm	45	
SB1160E-1	0.960T	1.032	1.160	0.2210	45	
SB1161E-1	0.910T	0.975	1.161	0.2220	30	010,020,030,040,062
SB1161E-1+010	0.910T	0.975	1.171	0.2220	30	
SB1161E-1+020	0.910T	0.975	1.181	0.2220	30	
SB1161E-1+030	0.910T	0.975	1.191	0.2220	30	
SB1161E-1+040	0.910T	0.975	1.201	0.2220	30	
SB1161E-1+062	0.910T	0.975	1.223	0.2220	30	
SB1161E-2N	23mm		29.5mm	7mm	45	
SB1175E-1	0.945T	1.032	1.175	0.2210	45	
SB1181E-1	22mm		30mm	8.5mm	45	
SB1181E-1N	22mm		30mm	8.5mm	45	
SB1184E-1	0.983		1.184	0.2365	45	
SB1187-1	1.000		1 3/16	3/16	45	
SB1187-12	1 1/16		1 3/16	7/16	45	
SB1187-2	7/8		1 3/16	1/4	45	
SB1187-4	15/16		1 3/16	3/16	45	
SB1187-5	15/16		1 3/16	1/4	45	
SB1187-51	0.905		1 3/16	0.2570	45	
SB1187-52	0.934T	0.995	1 3/16	0.2570	45	
SB1187-53	0.935		1 3/16	0.2350	45	
SB1187-54	0.880		1 3/16	0.2800	45	
SB1187-7	1.000		1 3/16	7/32	45	
SB1201E-2N	24mm		30.5mm	7mm	45	
SB1218E-1	1.020T	1.123	1.218	0.2210	45	
SB1221E-2	23mm		31mm	8.5mm	45	
SB1221E-2N	23mm		31mm	8.5mm	45	
SB1240E-2N	25.5mm		31.5mm	7mm	45	
SB1250-0	1.000		1 1/4	3/8	45	

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB1250-1	1.000		1¼	7/32	45	
SB1250-12	1.000		1¼	5/16	45	
SB1250-13	¾		1¼	7/16	45	
SB1250-15N	0.905		1¼	¼	45	
SB1250-2	1.000		1¼	3/16	45	
SB1250-3	1.000		1¼	¼	45	
SB1250-4	7/8		1¼	3/16	45	
SB1250-50	0.965T	1.060	1¼	¼	45	
SB1250-52	0.910T	1.052	1¼	0.2850	45	
SB1250-53	1.024		1¼	0.2570	45	
SB1250-54	1.010T	1.056	1¼	0.2570	45	
SB1250-56	0.905T	1.005	1¼	0.2300	45	
SB1250-58	0.955		1¼	0.2550	45	
SB1250-59	0.982		1¼	0.3290	45	
SB1250-60	1.023T	1.110	1¼	0.2730	45	
SB1250-61	0.976		1¼	0.1800	45	
SB1250-62	1.000		1¼	0.3050	45	
SB1250-63	0.930		1¼	0.3250	45	
SB1250-64	0.970		1¼	0.2700	45	
SB1250-65	1.030		1¼	0.2150	45	
SB1250-66PM	0.985T	1.103	1¼	¼	45	
SB1260E-1	24mm		32mm	8.5mm	45	
SB1260E-1N	24mm		32mm	8.5mm	45	
SB1262E-1	0.975T	1.045	1.262	¼	30	005,010,020,030,040,062
SB1262E-1+005	0.975T	1.045	1.267	¼	30	
SB1262E-1+010	0.975T	1.045	1.272	¼	30	
SB1262E-1+020	0.975T	1.045	1.282	¼	30	
SB1262E-1+030	0.975T	1.045	1.292	¼	30	
SB1262E-1+040	0.975T	1.045	1.302	¼	30	
SB1262E-1+062	0.975T	1.045	1.324	¼	30	
SB1264E-1	0.977T	1.098	1.264	0.2370	45	005
SB1264E-1+005	0.977T	1.098	1.269	0.2370	45	
SB1288E-1	1.107T	1.142	1.288	0.2580	45	030
SB1288E-1+030	1.107T	1.142	1.318	0.2580	45	
SB1299E-1	25mm		33mm	8.5mm	45	
SB1299E-1N	25mm		33mm	8.5mm	45	
SB1312-0	1½		1½	3/8	45	
SB1312-1	1½		1½	3/16	45	
SB1312-10	1½		1½	5/16	45	
SB1312-11	1¾		1½	7/32	45	
SB1312-13	1½		1½	7/32	45	
SB1312-16	1¾		1½	7/16	45	
SB1312-2	1.000		1½	3/16	45	
SB1312-3	1.000		1½	7/32	45	
SB1312-4	1.000		1½	¼	45	
SB1312-5	1.000		1½	5/16	45	
SB1312-50	1.086T	1.153	1½	0.3050	45	
SB1312-52	1.060T	1.087	1½	0.2400	45	
SB1312-53	0.980T	1.106	1½	0.2930	45	
SB1312-56	1.086		1½	0.3050	45	
SB1312-57	1.060		1½	0.2800	45	
SB1312-59	1.044		1½	0.2730	45	
SB1312-6	1½		1½	7/32	45	
SB1312-62	1.065T	1.120	1½	0.2850	45	
SB1312-63	0.965T	1.075	1½	0.2350	45	
SB1312-64	1.045		1½	0.3160	45	
SB1312-67	1.042		1½	0.2380	45	
SB1312-68	0.975		1½	0.2800	45	
SB1312-7	1½		1½	3/16	45	
SB1312-9	1½		1½	¼	45	

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB1322E-1	1.114T	1.135	1.322	0.2360	45	
SB1339E-2	26mm		34mm	8.5mm	45	
SB1339E-2N	26mm		34mm	8.5mm	45	
SB1343E-1	1.069T	1.180	1.343	0.2370	45	005
SB1343E-1+005	1.069T	1.180	1.348	0.2370	45	
SB1348E-1N	1.087		1.348	0.2000	45	010
SB1348E-1N+010	1.087		1.358	0.2000	45	
SB1358E-1N	28mm		34.5mm	7mm	45	
SB1375-0	1 $\frac{1}{8}$		1 $\frac{3}{8}$	$\frac{3}{8}$	45	
SB1375-1	1 $\frac{1}{8}$		1 $\frac{3}{8}$	$\frac{7}{32}$	45	030
SB1375-1+030	1 $\frac{1}{8}$		1.410	$\frac{7}{32}$	45	
SB1375-10	1 $\frac{5}{16}$		1 $\frac{3}{8}$	$\frac{5}{16}$	45	
SB1375-18	1 $\frac{1}{16}$		1 $\frac{3}{8}$	$\frac{5}{16}$	45	
SB1375-1N	1 $\frac{1}{8}$		1 $\frac{3}{8}$	$\frac{7}{32}$	45	
SB1375-2	1 $\frac{1}{8}$		1 $\frac{3}{8}$	$\frac{1}{4}$	45	
SB1375-22	1 $\frac{3}{16}$		1 $\frac{3}{8}$	$\frac{7}{32}$	45	
SB1375-25	1 $\frac{3}{32}$		1 $\frac{3}{8}$	0.2030	45	
SB1375-26	1.000		1 $\frac{3}{8}$	$\frac{9}{32}$	45	
SB1375-27	$\frac{7}{8}$		1 $\frac{3}{8}$	$\frac{7}{16}$	45	
SB1375-3	1 $\frac{1}{16}$		1 $\frac{3}{8}$	$\frac{3}{16}$	45	
SB1375-3N	1 $\frac{1}{16}$		1 $\frac{3}{8}$	$\frac{3}{16}$	45	
SB1375-4	1 $\frac{1}{8}$		1 $\frac{3}{8}$	$\frac{3}{16}$	45	
SB1375-5	1 $\frac{1}{8}$		1 $\frac{3}{8}$	17/64	45	
SB1375-50	1.109T	1.218	1 $\frac{3}{8}$	0.2550	45	
SB1375-50N	1.109T	1.218	1 $\frac{3}{8}$	0.2550	45	
SB1375-51	1.060T	1.150	1 $\frac{3}{8}$	0.2800	45	
SB1375-52	1.000T	1.109	1 $\frac{3}{8}$	0.4100	45	
SB1375-54	1.022T	1.085	1 $\frac{3}{8}$	0.2300	45	
SB1375-55	1.120		1 $\frac{3}{8}$	0.3250	45	
SB1375-56	1.102		1 $\frac{3}{8}$	0.2600	45	
SB1375-6	1 $\frac{1}{16}$		1 $\frac{3}{8}$	$\frac{7}{32}$	45	
SB1375-60	1.107T	1.217	1 $\frac{3}{8}$	0.2370	45	
SB1375-61	1.130T	1.272	1 $\frac{3}{8}$	0.3040	45	
SB1375-61N	1.130T	1.272	1 $\frac{3}{8}$	0.3040	45	
SB1375-62	1.100T	1.210	1 $\frac{3}{8}$	0.3000	45	
SB1375-63	1.057T	1.110	1 $\frac{3}{8}$	0.2400	45	
SB1375-64	1.000		1 $\frac{3}{8}$	0.2800	45	
SB1375-65	1.165		1 $\frac{3}{8}$	0.3100	45	
SB1375-7	1 $\frac{1}{16}$		1 $\frac{3}{8}$	$\frac{1}{4}$	45	
SB1375-8	1.000		1 $\frac{3}{8}$	$\frac{3}{16}$	45	
SB1375E-1	1.100T	1.140	1.375	0.2270	30	010
SB1375E-1+010	1.100T	1.140	1.385	0.2270	30	
SB1375E-2N	1.100T	1.130	1.375	0.2270	45	005,010,020
SB1375E-2N+005	1.100T	1.130	1.380	0.2270	45	
SB1375E-2N+010	1.100T	1.130	1.385	0.2270	45	
SB1375E-2N+020	1.100T	1.130	1.395	0.2270	45	
SB1378E-1	26mm		35mm	9mm	45	
SB1378E-1N	26mm		35mm	9mm	45	
SB1381E-1	1.161T	1.240	1.381	0.2550	30	
SB1382E-2	1.102T	1.146	1.382	0.3012	N/A	
SB1398E-1N	28.5mm		35.5mm	7.5mm	45	
SB1400E-1PM	1.170	1.205	1.400	0.2170	45	
SB1417E-1	27mm		36mm	9mm	45	
SB1417E-1N	27mm		36mm	9mm	45	
SB1420E-2	1.185R	1.272	1.420	0.2365	30	
SB1437-1	1 $\frac{1}{4}$		1 $\frac{7}{16}$	$\frac{7}{32}$	45	
SB1437-10	1 $\frac{1}{8}$		1 $\frac{7}{16}$	$\frac{3}{16}$	45	
SB1437-14	1 $\frac{7}{32}$		1 $\frac{7}{16}$	$\frac{1}{4}$	45	
SB1437-17	1.000		1 $\frac{7}{16}$	$\frac{1}{4}$	45	
SB1437-18	1.000		1 $\frac{7}{16}$	$\frac{5}{16}$	45	

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB1437-1N	1¼		17/16	7/32	45	
SB1437-2	17/32		17/16	7/32	45	
SB1437-22	1½		17/16	5/16	45	
SB1437-24	1¾		17/16	3/16	45	
SB1437-25	1¾		17/16	5/16	45	
SB1437-28	1¼		17/16	3/16	45	
SB1437-2N	17/32		17/16	7/32	45	
SB1437-2PM	17/32		17/16	7/32	45	
SB1437-3	1¾		17/16	7/32	45	
SB1437-30	1¼		17/16	5/16	45	
SB1437-32	15/16		17/16	7/16	45	
SB1437-3N	1¾		17/16	7/32	45	
SB1437-3PM	1¾		17/16	7/32	45	
SB1437-4	1½		17/16	7/32	45	
SB1437-5	1¾		17/16	¼	45	
SB1437-50	1.140T	1.241	17/16	0.3050	45	
SB1437-51	1.130T	1.311	17/16	0.2500	45	
SB1437-53	1.090T	1.101	17/16	0.3540	45	
SB1437-56	1.110T	1.215	17/16	0.3150	45	
SB1437-58	1.095T	1.262	17/16	0.2370	45	
SB1437-59	1.180T	1.245	17/16	0.3050	45	
SB1437-6	1½		17/16	5/16	45	
SB1437-60	1.125		17/16	0.2570	45	
SB1437-61	1.162		17/16	0.3100	45	
SB1437-62	1.200		17/16	0.2970	45	
SB1437-63	1.181T	1.285	17/16	0.2800	45	
SB1437-65	1.105		17/16	0.3220	45	
SB1437-66	1.120		17/16	0.3000	45	
SB1437-67	1.180T	1.270	17/16	0.2550	45	
SB1437-68	1.135T	1.250	17/16	0.3160	45	
SB1437-69	1.140T	1.228	17/16	0.2370	45	
SB1437-72	1.150T	1.243	17/16	0.2570	45	
SB1437-73	1.142T	1.265	17/16	0.3360	45	
SB1437-74	1.162		17/16	0.2300	45	
SB1437-75	1.175		17/16	0.2600	45	
SB1437-8	1½		17/16	¼	45	
SB1437-9	1½		17/16	3/16	45	
SB1437E-2	1.125T	1.219	1.437	0.2365	30	
SB1437E-3N	29.5mm		36.5mm	7.5mm	45	
SB1441E-1	1-13/64T	1.245	1.441	0.2150	30	
SB1442E-1	1-9/64T	1.200	1.442	¼	30	005,020,030,040,063
SB1442E-1+005	1-9/64T	1.200	1.447	¼	30	
SB1442E-1+020	1-9/64T	1.200	1.462	¼	30	
SB1442E-1+030	1-9/64T	1.200	1.472	¼	30	
SB1442E-1+040	1-9/64T	1.200	1.482	¼	30	
SB1442E-1+063	1-9/64T	1.200	1.505	¼	30	
SB1442E-2	17/32		1.442	1½	45	
SB1457E-2	28mm		37mm	9mm	45	
SB1457E-2N	28mm		37mm	9mm	45	
SB1459E-1	1.200		1.459	0.2170	24.5	
SB1476E-2	1.200T	1.277	1.476	0.2445	30	
SB1476E-3N	30.5mm		37.5mm	7.5mm	45	
SB1479E-1C	1.210T	1.295	1.479	0.2570	45	
SB1480E-2	1.288T	1.299	1.480	¼	45	010
SB1480E-2+010	1.288T	1.299	1.490	¼	45	
SB1486E-1	1.270		1.486	0.2910	30	
SB1496E-1	29mm		38mm	9mm	45	
SB1496E-1N	29mm		38mm	9mm	45	
SB1500-0	1¼		1½	3/8	45	
SB1500-1	1¼		1½	7/32	45	

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB1500-10	1 ³ / ₁₆		1 ¹ / ₂	5 ⁵ / ₁₆	45	
SB1500-11	1 ⁷ / ₃₂		1 ¹ / ₂	1 ¹ / ₄	45	
SB1500-12	1 ¹ / ₄		1 ¹ / ₂	5 ⁵ / ₁₆	45	
SB1500-13	1 ¹ / ₄		1 ¹ / ₂	3 ³ / ₁₆	45	
SB1500-19	1.000		1 ¹ / ₂	3 ³ / ₈	45	
SB1500-1N	1 ¹ / ₄		1 ¹ / ₂	7 ⁷ / ₃₂	45	
SB1500-1PM	1 ¹ / ₄		1 ¹ / ₂	7 ⁷ / ₃₂	45	
SB1500-2	1 ³ / ₁₆		1 ¹ / ₂	7 ⁷ / ₃₂	45	
SB1500-23	1 ¹ / ₁₆		1 ¹ / ₂	5 ⁵ / ₁₆	45	
SB1500-26	1 ³ / ₁₆		1 ¹ / ₂	3 ³ / ₈	45	
SB1500-28	1 ¹ / ₄		1 ¹ / ₂	9 ⁹ / ₃₂	45	
SB1500-29	1 ⁵ / ₁₆		1 ¹ / ₂	3 ³ / ₁₆	45	
SB1500-3	1 ¹ / ₄		1 ¹ / ₂	1 ¹ / ₄	45	003
SB1500-3+003	1 ¹ / ₄		1.507	1 ¹ / ₄	45	
SB1500-30	1 ⁵ / ₁₆		1 ¹ / ₂	7 ⁷ / ₃₂	45	
SB1500-33	1.000		1 ¹ / ₂	7 ⁷ / ₁₆	45	
SB1500-4	1 ⁷ / ₃₂ T	1 ¹¹ / ₃₂	1 ¹ / ₂	7 ⁷ / ₃₂	45	
SB1500-5	1 ¹ / ₈		1 ¹ / ₂	3 ³ / ₁₆	45	
SB1500-50	1.203T	1.266	1 ¹ / ₂	0.2800	45	
SB1500-50N	1.203T	1.266	1 ¹ / ₂	0.2800	45	
SB1500-50PM	1.203T	1.266	1 ¹ / ₂	0.2800	45	
SB1500-53	1.180T	1.241	1 ¹ / ₂	0.3070	45	
SB1500-54	1.180T	1.325	1 ¹ / ₂	0.3070	45	
SB1500-56	1.275T	1.318	1 ¹ / ₂	0.2500	45	
SB1500-57	1.100T	1.213	1 ¹ / ₂	0.3160	45	
SB1500-58	1.200T	1.220	1 ¹ / ₂	0.3150	45	
SB1500-6	1 ³ / ₁₆		1 ¹ / ₂	1 ¹ / ₄	45	
SB1500-62	1.220T	1.284	1 ¹ / ₂	0.3100	45	
SB1500-63	1.210T	1.248	1 ¹ / ₂	0.3450	45	
SB1500-70	1.203		1 ¹ / ₂	0.2830	45	
SB1500-71	1.240		1 ¹ / ₂	0.3170	45	
SB1500-73	1.230		1 ¹ / ₂	0.2780	45	
SB1500-73N	1.230		1 ¹ / ₂	0.2780	45	
SB1500-74	1.180T	1.280	1 ¹ / ₂	0.2140	45	
SB1500-75	1.180		1 ¹ / ₂	0.3000	45	
SB1500-77	1.175T	1.235	1 ¹ / ₂	0.2360	45	
SB1500-79	1.295		1 ¹ / ₂	0.2620	45	
SB1500-8	1 ¹ / ₈		1 ¹ / ₂	7 ⁷ / ₃₂	45	
SB1500-80	1.250		1 ¹ / ₂	0.2300	45	
SB1500-9	1 ¹ / ₈		1 ¹ / ₂	5 ⁵ / ₁₆	45	
SB1505E-1	1 ¹ / ₄		1.504	0.3350	45	
SB1516E-1	1 ¹ / ₄		1.516	1 ¹ / ₄	45	
SB1516E-2N	31.5mm		38.5mm	7.5mm	45	
SB1518E-1	1.245T	1.325	1.518	0.2450	45	
SB1527E-1	1.310T	1.398	1.527	0.2580	45	030
SB1527E-1+030	1.310T	1.398	1.557	0.2580	45	
SB1535E-1	30mm		39mm	9mm	45	
SB1535E-1N	30mm		39mm	9mm	45	
SB1536E-2N	1.255T	1.405	1.536	0.3585	45	015
SB1536E-2N+015	1.255T	1.405	1.551	0.3585	45	
SB1538E-2	1.240T	1.395	1.538	0.2550	45	
SB1538E-3	1.280T	1.347	1.538	0.2560	45	
SB1539E-2	1.297T	1.390	1.539	0.2760	N/A	
SB1539E-5	1.240R	1.345	1.538	0.2540	45	
SB1540E-1	1.295		1.540	0.2610	30	
SB1541E-1	1.275T	1.402	1.541	0.2410	N/A	
SB1554E-1	1.280T	1.324	1.554	0.2360	30	010,020
SB1554E-1+010	1.280T	1.324	1.564	0.2360	30	
SB1554E-1+020	1.280T	1.324	1.574	0.2360	30	
SB1554E-2	1.301T	1.348	1.554	0.1900	45	010,020

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB1554E-2+010	1.301T	1.348	1.564	0.1900	45	
SB1554E-2+020	1.301T	1.348	1.574	0.1900	45	
SB1555E-1N	32.5mm		39.5mm	7.5mm	45	
SB1558E-1PM	1.320		1.558	0.2170	45	
SB1562-0	1 ³ / ₁₆		1 ⁹ / ₁₆	³ / ₈	45	
SB1562-1	1 ³ / ₁₆		1 ⁹ / ₁₆	⁷ / ₃₂	45	005,010
SB1562-1+005	1 ³ / ₁₆		1.572	⁷ / ₃₂	45	
SB1562-1+010	1 ³ / ₁₆		1.577	⁷ / ₃₂	45	
SB1562-11	1 ³ / ₁₆		1 ⁹ / ₁₆	⁵ / ₁₆	30	
SB1562-12	1 ³ / ₈		1 ⁹ / ₁₆	⁷ / ₃₂	45	
SB1562-13	1 ³ / ₁₆		1 ⁹ / ₁₆	⁷ / ₃₂	45	
SB1562-15	1 ¹ / ₈		1 ⁹ / ₁₆	¹ / ₄	45	
SB1562-16	1 ¹ / ₄		1 ⁹ / ₁₆	³ / ₁₆	45	
SB1562-17	1 ¹ / ₄		1 ⁹ / ₁₆	⁵ / ₁₆	45	
SB1562-18	1 ⁵ / ₁₆		1 ⁹ / ₁₆	⁵ / ₁₆	45	
SB1562-1N	1 ⁵ / ₁₆		1 ⁹ / ₁₆	⁷ / ₃₂	45	
SB1562-1PM	1 ⁵ / ₁₆		1 ⁹ / ₁₆	⁷ / ₃₂	45	
SB1562-2	1 ⁵ / ₁₆ T	1 ³ / ₈	1 ⁹ / ₁₆	¹ / ₄	45	
SB1562-26	1 ¹ / ₁₆		1 ⁹ / ₁₆	³ / ₈	45	
SB1562-28	1 ¹ / ₈		1 ⁹ / ₁₆	⁵ / ₁₆	45	
SB1562-29	1 ¹ / ₈		1 ⁹ / ₁₆	³ / ₈	45	
SB1562-2N	1 ⁵ / ₁₆ T	1 ³ / ₈	1 ⁹ / ₁₆	¹ / ₄	45	
SB1562-3	1 ¹¹ / ₃₂		1 ⁹ / ₁₆	⁷ / ₃₂	45	
SB1562-31	1 ³ / ₁₆		1 ⁹ / ₁₆	¹ / ₄	45	
SB1562-34	1 ³ / ₁₆ T	1 ¹ / ₄	1 ⁹ / ₁₆	0.3100	45	
SB1562-35	1 ¹ / ₄		1 ⁹ / ₁₆	³ / ₈	45	
SB1562-36	1 ⁵ / ₁₆		1 ⁹ / ₁₆	³ / ₁₆	45	
SB1562-36N	1 ⁵ / ₁₆		1 ⁹ / ₁₆	³ / ₁₆	45	
SB1562-39	1 ⁵ / ₁₆		1 ⁹ / ₁₆	³ / ₈	45	
SB1562-4	1 ⁵ / ₁₆		1 ⁹ / ₁₆	¹ / ₄	45	010
SB1562-4+010	1 ⁵ / ₁₆		1.577	¹ / ₄	45	
SB1562-42	1 ³ / ₁₆ T	1 ³ / ₈	1 ⁹ / ₁₆	⁷ / ₃₂	45	
SB1562-44	1 ¹ / ₁₆		1 ⁹ / ₁₆	⁷ / ₁₆	45	
SB1562-46N	1 ¹ / ₄		1 ⁹ / ₁₆	⁹ / ₃₂	45	
SB1562-5	1 ³ / ₈		1 ⁹ / ₁₆	¹ / ₄	45	
SB1562-50	1.260T	1.412	1 ⁹ / ₁₆	0.2800	45	
SB1562-51	1.245T	1.268	1 ⁹ / ₁₆	0.3540	45	
SB1562-54	1.220T	1.356	1 ⁹ / ₁₆	0.3440	45	
SB1562-57	1.246T	1.303	1 ⁹ / ₁₆	0.2300	45	
SB1562-6	1 ¹ / ₄		1 ⁹ / ₁₆	⁷ / ₃₂	45	
SB1562-66	1.265T	1.294	1 ⁹ / ₁₆	0.2800	45	
SB1562-66PM	1.265T	1.294	1 ⁹ / ₁₆	0.2800	45	
SB1562-67	1.255T	1.307	1 ⁹ / ₁₆	0.3190	45	
SB1562-69	1.219		1 ⁹ / ₁₆	0.3170	45	
SB1562-69N	1.219		1 ⁹ / ₁₆	0.3170	45	
SB1562-6N	1 ¹ / ₄		1 ⁹ / ₁₆	⁷ / ₃₂	45	
SB1562-6PM	1 ¹ / ₄		1 ⁹ / ₁₆	⁷ / ₃₂	45	
SB1562-7	1 ¹ / ₄		1 ⁹ / ₁₆	¹ / ₄	45	
SB1562-72	1.180		1 ⁹ / ₁₆	0.3160	45	
SB1562-74	1.290T	1.325	1 ⁹ / ₁₆	0.3240	45	
SB1562-77	1.170		1 ⁹ / ₁₆	0.2670	45	
SB1562-78	1.230		1 ⁹ / ₁₆	0.2780	45	
SB1562-8	1 ⁵ / ₁₆		1 ⁹ / ₁₆	⁷ / ₃₂	30	
SB1562-9	1 ⁵ / ₁₆ T	1 ³ / ₈	1 ⁹ / ₁₆	⁷ / ₃₂	45	
SB1562-9N	1 ⁵ / ₁₆ T	1 ³ / ₈	1 ⁹ / ₁₆	⁷ / ₃₂	45	
SB1575E-3	30mm		40mm	9.5mm	45	
SB1575E-3N	30mm		40mm	9.5mm	45	
SB1577E-1	1.340T	1.412	1.577	0.2200	30	010,020
SB1577E-1+010	1.340T	1.412	1.587	0.2200	30	
SB1577E-1+020	1.340T	1.412	1.597	0.2200	30	

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB1578E-1	1.300T	1.331	1.578	0.3170	45	
SB1579E-1C	1.210R	1.369	1.579	0.2525	30	
SB1584E-1	1.328T	1.397	1.584	1/4	30	010
SB1584E-1+010	1.328T	1.397	1.594	1/4	30	
SB1587E-1	1.220R	1.353	1.587	0.3150	45	
SB1594E-1N	33mm		40.5mm	8mm	45	
SB1600E-1	1.340		1.600	0.3000	45	020
SB1600E-1+020	1.340		1.620	0.3000	45	
SB1609E-1	1.400		1.609	1/4	30	
SB1614E-1	31mm		41mm	9.5mm	45	
SB1614E-1N	31mm		41mm	9.5mm	45	
SB1618E-2	1.340R	1.442	1.618	0.2800	20	
SB1624E-1N	1-21/64		1.624	3/8	45	
SB1625-1	1 3/8		1 5/8	7/32	45	005,010
SB1625-1+005	1 3/8		1.635	7/32	45	
SB1625-1+010	1 3/8		1.640	7/32	45	
SB1625-10	1 5/16		1 5/8	5/16	45	
SB1625-11	1 11/32		1 5/8	7/32	45	006
SB1625-11+006	1 11/32		1.636	7/32	45	
SB1625-14	1 3/8		1 5/8	5/16	45	
SB1625-15	1 3/8		1 5/8	17/64	45	
SB1625-17	1 7/16		1 5/8	7/32	45	
SB1625-18	1 5/16		1 5/8	9/32	45	
SB1625-1N	1 3/8		1 5/8	7/32	45	
SB1625-1PM	1 3/8		1 5/8	7/32	45	
SB1625-2	1 3/8		1 5/8	1/4	45	
SB1625-20	1 5/16		1 5/8	0.3950	45	
SB1625-29	1 1/4		1 5/8	3/8	45	
SB1625-2N	1 3/8		1 5/8	1/4	45	
SB1625-3	1 5/16		1 5/8	1/4	45	
SB1625-30	1 5/16		1 5/8	3/16	45	
SB1625-33	1 3/8		1 5/8	3/16	45	
SB1625-35	1 7/16		1 5/8	3/16	45	
SB1625-36	1 7/16		1 5/8	1/4	45	
SB1625-39	1 13/32		1 5/8	1/4	45	
SB1625-3N	1 5/16		1 5/8	1/4	45	
SB1625-4	1 5/16		1 5/8	7/32	45	020
SB1625-4+020	1 5/16		1.650	7/32	45	
SB1625-41	1 1/8		1 5/8	7/16	45	
SB1625-4N	1 5/16		1 5/8	7/32	45	
SB1625-4PM	1 5/16		1 5/8	7/32	45	
SB1625-5	1 11/32		1 5/8	1/4	45	
SB1625-50	1.340T	1.426	1 5/8	0.3070	45	
SB1625-52	1.260T	1.427	1 5/8	0.3150	45	
SB1625-53	1.255T	1.437	1 5/8	0.3000	45	
SB1625-54	1.329		1 5/8	0.2800	45	
SB1625-55	1.333T	1.495	1 5/8	0.2370	45	
SB1625-56	1.298T	1.382	1 5/8	0.3170	45	010,030
SB1625-56+010	1.298T	1.382	1.642	0.3170	45	
SB1625-56+030	1.298T	1.382	1.662	0.3170	45	
SB1625-58	1.280T	1.361	1 5/8	0.3150	45	
SB1625-59	1.380		1 5/8	0.2570	45	
SB1625-6	1 1/4		1 5/8	1/4	45	
SB1625-60	1 1/4T	1.408	1 5/8	0.2930	45	
SB1625-62	1.320		1 5/8	0.3000	45	
SB1625-62PM	1.320		1 5/8	0.3000	45	
SB1625-63	1.345T	1.380	1 5/8	0.2900	45	
SB1625-64	1.335T	1.387	1 5/8	0.4200	45	
SB1625-64N	1.335T	1.387	1 5/8	0.4200	45	
SB1625-64PM	1.335T	1.387	1 5/8	0.4200	45	

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB1625-67PM	1.350T	1.435	1 $\frac{5}{8}$	$\frac{1}{4}$	45	
SB1625-7	1 $\frac{1}{4}$		1 $\frac{5}{8}$	$\frac{5}{16}$	45	
SB1625-8	1 $\frac{3}{16}$		1 $\frac{5}{8}$	$\frac{3}{8}$	45	
SB1625-9	1 $\frac{1}{4}$		1 $\frac{5}{8}$	$\frac{7}{32}$	45	
SB1626E-1N	1.348T	1.406	1.626	0.3650	45	
SB1628E-1N	1.348T	1.524	1.628	0.3650	45	010,013
SB1628E-1N+010	1.348T	1.524	1.638	0.3650	45	
SB1628E-1N+013	1.348T	1.524	1.641	0.3650	45	
SB1628E-2	1 $\frac{11}{32}$ T	1.380	1.628	$\frac{1}{4}$	30	010,020,030
SB1628E-2+010	1 $\frac{11}{32}$ T	1.380	1.638	$\frac{1}{4}$	30	
SB1628E-2+020	1 $\frac{11}{32}$ T	1.380	1.648	$\frac{1}{4}$	30	
SB1628E-2+030	1 $\frac{11}{32}$ T	1.380	1.658	$\frac{1}{4}$	30	
SB1628E-3	1.357T	1.414	1.628	0.2490	30	010,020,030
SB1628E-3+010	1.357T	1.414	1.638	0.2490	30	
SB1628E-3+020	1.357T	1.414	1.648	0.2490	30	
SB1628E-3+030	1.357T	1.414	1.658	0.2490	30	
SB1628E-3SA	1.357		1.628	0.2490	30	
SB1628E-3T	1.357T	1.414	1.628	0.2700	30	
SB1630E-1	1.335		1.630	0.3120	45	005,010,020
SB1630E-1+005	1.335		1.635	0.3120	45	
SB1630E-1+010	1.335		1.640	0.3120	45	
SB1630E-1+020	1.335		1.650	0.3120	45	
SB1630E-1N	1.335		1.630	0.3120	45	
SB1634E-2N	33.5mm		41.5mm	8mm	45	
SB1634E-3	1.360T	1.466	1.634	0.3000	45	
SB1634E-3N	1.360T	1.466	1.634	0.3000	45	
SB1634E-3PM	1.360T	1.466	1.634	0.3000	45	
SB1638E-1N	1.412		1.638	0.2180	45	
SB1638E-2	1.400		1.638	0.2180	30	
SB1638E-2T	1.400		1.638	0.2370	30	
SB1640E-1	1 $\frac{3}{8}$		1.640	$\frac{1}{4}$	45	
SB1654E-1N	1.367		1.654	0.3120	45	
SB1654E-3	32mm		42mm	9.5mm	45	
SB1654E-3N	32mm		42mm	9.5mm	45	
SB1656E-1	1.410		1.656	0.2580	30	
SB1656E-2	1.273T	1.387	1.656	0.3170	30	
SB1656E-3	1.410		1.656	0.2180	30	
SB1657E-1	1.312T	1.460	1.657	0.3950	45	
SB1658E-1C	1.300R	1.433	1.658	0.2880	30	
SB1669E-1	1.372T	1.429	1.669	0.2720	37	
SB1669E-2N	1.415T	1.530	1.669	0.2765	45	
SB1670E-1	1.420		1.670	0.3020	30	
SB1671E-1N	1.367		1.671	0.3100	45	
SB1673E-1N	34.5mm		42.5mm	8mm	45	
SB1676E-1	1.400T	1.486	1.676	0.2370	30	
SB1676E-2	1.437		1.676	0.2190	30	
SB1678E-1	1.446		1.678	0.3120	45	
SB1681E-1	1-13/64		1.681	$\frac{5}{16}$	45	
SB1681E-3	1.251ST	1.351	1.681	$\frac{3}{8}$	45	
SB1687-0	1 $\frac{5}{16}$		1 $\frac{11}{16}$	$\frac{3}{8}$	45	
SB1687-1	1 $\frac{13}{32}$		1 $\frac{11}{16}$	$\frac{1}{4}$	45	010
SB1687-1+010	1 $\frac{13}{32}$		1.702	$\frac{1}{4}$	45	
SB1687-10	1 $\frac{3}{8}$ T	1 $\frac{7}{16}$	1 $\frac{11}{16}$	$\frac{5}{16}$	45	
SB1687-10N	1 $\frac{3}{8}$ T	1 $\frac{7}{16}$	1 $\frac{11}{16}$	$\frac{5}{16}$	45	
SB1687-11	1 $\frac{5}{16}$		1 $\frac{11}{16}$	$\frac{5}{16}$	45	
SB1687-12	1 $\frac{3}{8}$		1 $\frac{11}{16}$	$\frac{3}{8}$	45	
SB1687-13	1 $\frac{7}{16}$		1 $\frac{11}{16}$	$\frac{5}{16}$	45	
SB1687-14	1 $\frac{7}{16}$		1 $\frac{11}{16}$	$\frac{3}{8}$	45	
SB1687-15	1 $\frac{7}{16}$		1 $\frac{11}{16}$	$\frac{5}{32}$	45	
SB1687-16	1 $\frac{7}{16}$		1 $\frac{11}{16}$	$\frac{3}{16}$	45	

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB1687-17	1½		1 ¹¹ / ₁₆	7/32	45	
SB1687-18	1¾		1 ¹¹ / ₁₆	9/32	45	
SB1687-19	1¼		1 ¹¹ / ₁₆	¼	45	
SB1687-1N	1 ¹³ / ₃₂		1 ¹¹ / ₁₆	¼	45	
SB1687-2	1 ⁷ / ₁₆		1 ¹¹ / ₁₆	7/32	45	010
SB1687-2+010	1 ⁷ / ₁₆		1.702	7/32	45	
SB1687-22	1¼		1 ¹¹ / ₁₆	7/32	45	
SB1687-23	1¼		1 ¹¹ / ₁₆	5/16	45	
SB1687-27	1 ¹¹ / ₃₂		1 ¹¹ / ₁₆	7/32	45	
SB1687-29	1¾		1 ¹¹ / ₁₆	3/16	45	
SB1687-2N	1 ⁷ / ₁₆		1 ¹¹ / ₁₆	7/32	45	
SB1687-2PM	1 ⁷ / ₁₆		1 ¹¹ / ₁₆	7/32	45	
SB1687-3	1 ⁷ / ₁₆		1 ¹¹ / ₁₆	¼	45	
SB1687-32	1½		1 ¹¹ / ₁₆	3/16	45	
SB1687-33	1½		1 ¹¹ / ₁₆	¼	45	
SB1687-35	1½		1 ¹¹ / ₁₆	3/8	45	
SB1687-3N	1 ⁷ / ₁₆		1 ¹¹ / ₁₆	¼	45	
SB1687-4	1 ¹¹ / ₃₂		1 ¹¹ / ₁₆	5/16	45	
SB1687-42	1¾		1 ¹¹ / ₁₆	7/16	45	
SB1687-4N	1 ¹¹ / ₃₂		1 ¹¹ / ₁₆	5/16	45	
SB1687-5	1¾		1 ¹¹ / ₁₆	7/32	45	
SB1687-51	1.390T	1.452	1 ¹¹ / ₁₆	0.3050	45	
SB1687-54	1.450		1 ¹¹ / ₁₆	0.2970	45	
SB1687-55	1.340		1 ¹¹ / ₁₆	0.3150	45	
SB1687-56	1.375T	1.475	1 ¹¹ / ₁₆	0.2950	45	
SB1687-58	1.397T	1.469	1 ¹¹ / ₁₆	0.2750	45	
SB1687-5N	1¾		1 ¹¹ / ₁₆	7/32	45	
SB1687-6	1 ⁵ / ₁₆		1 ¹¹ / ₁₆	¼	45	
SB1687-7	1¾		1 ¹¹ / ₁₆	¼	45	005
SB1687-7+005	1¾		1.697	¼	45	
SB1687-8	1¾		1 ¹¹ / ₁₆	5/16	45	
SB1687-9	1 ⁹ / ₁₆		1 ¹¹ / ₁₆	7/32	45	
SB1687-9N	1 ⁹ / ₁₆		1 ¹¹ / ₁₆	7/32	45	
SB1687E-1N	1 ⁷ / ₁₆ T	1.546	1.687	0.3650	45	See SB1693E-1N
SB1687E-4N	1.410		1.687	0.3650	20	010,020
SB1687E-4N+010	1.410		1.697	0.3650	20	
SB1687E-4N+020	1.410		1.707	0.3650	20	
SB1687E-5C	1.318T	1.358	1.687	0.3150	20	010,020
SB1687E-5C+010	1.318T	1.358	1.697	0.3150	20	
SB1687E-5C+020	1.318T	1.358	1.707	0.3150	20	
SB1687E-6C	1.437T	1.546	1.687	0.3650	45	
SB1690E-1	1.251ST	1.351	1.690	3/8	45	
SB1691E-1	1 ⁷ / ₁₆		1.691	0.1810	30	010
SB1691E-1+010	1 ⁷ / ₁₆		1.701	0.1810	30	
SB1691E-2	1 ⁷ / ₁₆		1.693	0.2000	30	010
SB1691E-2+010	1 ⁷ / ₁₆		1.701	0.2000	30	
SB1692E-1N	1.430		1.693	0.2480	30	005,015,030
SB1692E-1N+005	1.430		1.698	0.2480	30	
SB1692E-1N+015	1.430		1.708	0.2480	30	
SB1692E-1N+030	1.430		1.723	0.2480	30	
SB1693E-1N	1 ⁷ / ₁₆ T	1.546	1.693	0.3650	45	010,020,030
SB1693E-1N+010	1 ⁷ / ₁₆ T	1.546	1.703	0.3650	45	
SB1693E-1N+020	1 ⁷ / ₁₆ T	1.546	1.713	0.3650	45	
SB1693E-1N+030	1 ⁷ / ₁₆ T	1.546	1.723	0.3650	45	
SB1693E-2	1 ⁷ / ₁₆ T	1.546	1.693	3/8	45	020,030
SB1693E-2+020	1 ⁷ / ₁₆ T	1.546	1.713	3/8	45	
SB1693E-2+030	1 ⁷ / ₁₆ T	1.546	1.723	3/8	45	
SB1693E-4	33mm		43mm	9.5mm	45	
SB1693E-4N	33mm		43mm	9.5mm	45	
SB1693E-8N	1.458		1.693	0.2340	45	005

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB1693E-8N+005	1.458		1.698	0.2340	45	
SB1695E-1	1.348T	1.482	1.695	0.2430	30	010
SB1695E-1+010	1.345T	1.482	1.705	0.2420	30	
SB1696E-1C	1.260R	1.359	1.696	0.2860	30	
SB1696E-2C	1.295R	1.439	1.696	0.3160	30	
SB1696E-3	1.350R	1.452	1.696	0.3190	45	
SB1696E-4	1.350R	1.453	1.696	0.3055	36	
SB1697E-1	1.450T	1.542	1.697	0.2760	45	
SB1697E-2	1.300R	1.426	1.697	0.2950	40	
SB1711E-1C	1.416T	1.525	1.711	0.3780	45	
SB1717E-1	1.355T	1.415	1.717	0.2400	30	
SB1722E-1	1.357T	1.574	1.722	0.2650	45	
SB1722E-3	1.382T	1.455	1.722	0.2650	20	
SB1725E-2N	1.460		1.725	0.2510	30	
SB1727E-2N	1.310T	1.421	1.727	0.3800	45	
SB1732E-1	34mm		44mm	9.5mm	45	
SB1732E-1N	34mm		44mm	9.5mm	45	
SB1733E-2N	1.455T	1.597	1.733	0.3650	45	
SB1744E-1N	1.445		1.744	0.3120	45	
SB1750-0	1 $\frac{3}{8}$		1 $\frac{3}{4}$	$\frac{3}{8}$	45	
SB1750-1	1 $\frac{1}{2}$		1 $\frac{3}{4}$	$\frac{1}{4}$	45	010
SB1750-1+010	1 $\frac{1}{2}$		1.765	$\frac{1}{4}$	45	
SB1750-10	1 $\frac{1}{4}$		1 $\frac{3}{4}$	$\frac{1}{4}$	45	
SB1750-11	1 $\frac{7}{16}$		1 $\frac{3}{4}$	$\frac{3}{16}$	45	
SB1750-12	1.438T	1.610	1 $\frac{3}{4}$	0.2030	45	
SB1750-13	1 $\frac{1}{2}$		1 $\frac{3}{4}$	$\frac{5}{16}$	45	
SB1750-17	1 $\frac{5}{16}$		1 $\frac{3}{4}$	$\frac{5}{16}$	45	
SB1750-1N	1 $\frac{1}{2}$		1 $\frac{3}{4}$	$\frac{1}{4}$	45	
SB1750-2	1 $\frac{1}{2}$		1 $\frac{3}{4}$	$\frac{7}{32}$	45	010
SB1750-2+010	1 $\frac{1}{2}$		1.765	$\frac{7}{32}$	45	
SB1750-20	1 $\frac{1}{4}$		1 $\frac{3}{4}$	$\frac{5}{16}$	45	
SB1750-24	1 $\frac{5}{16}$		1 $\frac{3}{4}$	$\frac{3}{8}$	45	
SB1750-25	1 $\frac{5}{16}$		1 $\frac{3}{4}$	$\frac{7}{16}$	45	
SB1750-2N	1 $\frac{1}{2}$		1 $\frac{3}{4}$	$\frac{7}{32}$	45	
SB1750-2PM	1 $\frac{1}{2}$		1 $\frac{3}{4}$	$\frac{7}{32}$	45	
SB1750-3	1 $\frac{7}{16}$		1 $\frac{3}{4}$	$\frac{7}{32}$	45	
SB1750-32	1 $\frac{7}{16}$		1 $\frac{3}{4}$	$\frac{3}{8}$	45	
SB1750-33	1 $\frac{7}{16}$		1 $\frac{3}{4}$	$\frac{7}{16}$	45	
SB1750-34	1 $\frac{1}{2}$		1 $\frac{3}{4}$	$\frac{3}{16}$	45	
SB1750-36	1 $\frac{1}{2}$		1 $\frac{3}{4}$	$\frac{3}{8}$	45	
SB1750-38	1 $\frac{9}{16}$		1 $\frac{3}{4}$	$\frac{7}{32}$	45	
SB1750-39	1 $\frac{9}{16}$		1 $\frac{3}{4}$	$\frac{1}{4}$	45	
SB1750-3N	1 $\frac{7}{16}$		1 $\frac{3}{4}$	$\frac{7}{32}$	45	
SB1750-4	1 $\frac{7}{16}$		1 $\frac{3}{4}$	$\frac{1}{4}$	45	
SB1750-43	1 $\frac{1}{4}$		1 $\frac{3}{4}$	$\frac{7}{16}$	45	
SB1750-4N	1 $\frac{7}{16}$		1 $\frac{3}{4}$	$\frac{1}{4}$	45	
SB1750-5	1 $\frac{7}{16}$		1 $\frac{3}{4}$	$\frac{5}{16}$	45	
SB1750-51	1.410T	1.600	1 $\frac{3}{4}$	0.2800	45	
SB1750-52	1.455T	1.595	1 $\frac{3}{4}$	0.3070	45	
SB1750-6	1 $\frac{5}{16}$		1 $\frac{3}{4}$	$\frac{1}{4}$	45	
SB1750-60	1.437T	1.555	1 $\frac{3}{4}$	0.3020	45	
SB1750-61	1.445T	1.617	1 $\frac{3}{4}$	0.3100	45	
SB1750-65	1.468		1 $\frac{3}{4}$	0.2760	45	
SB1750-68	1.415		1 $\frac{3}{4}$	0.3160	45	
SB1750-7	1 $\frac{3}{8}$		1 $\frac{3}{4}$	$\frac{7}{32}$	45	
SB1750-8	1 $\frac{3}{8}$		1 $\frac{3}{4}$	$\frac{1}{4}$	45	
SB1750-8N	1 $\frac{3}{8}$		1 $\frac{3}{4}$	$\frac{1}{4}$	45	
SB1750-9	1 $\frac{3}{8}$		1 $\frac{3}{4}$	$\frac{5}{16}$	45	
SB1756E-1	1.445T	1.618	1.756	0.2170	20	
SB1756E-2C	1.445T	1.697	1.756	0.2370	45	

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB1772E-2	34.5mm		45mm	10mm	45	
SB1772E-2N	34.5mm		45mm	10mm	45	
SB1775E-1	1.458T	1.680	1.775	0.3000	45	
SB1775E-3	1.450T	1.555	1.775	0.3330	45	
SB1775E-4	1.450R	1.573	1.775	0.3330	30	
SB1776E-1C	1.340R	1.470	1.776	0.2975	25	
SB1781E-1N	1.476		1.781	0.3110	45	
SB1782E-1	1.490T	1.623	1.782	0.3400	30	015
SB1782E-1+015	1.490T	1.623	1.797	0.3400	30	
SB1782E-2	1.535T	1.595	1.782	0.2450	45	
SB1784E-1N	1.417T	1.563	1.784	0.2920	45	
SB1792E-1	1.535		1.792	0.2570	30	
SB1803E-1	1.571		1.803	0.3120	45	
SB1811E-1	35.5mm		46mm	10mm	45	
SB1811E-1N	35.5mm		46mm	10mm	45	
SB1811E-2N	1.548T	1.650	1.811	0.3340	45	015
SB1811E-2N+015	1.548T	1.650	1.826	0.3340	45	
SB1811E-3	1.548T	1.650	1.811	0.3340	45	
SB1812-0	1 ⁷ / ₁₆		1 ¹³ / ₁₆	3 ⁵ / ₁₆	45	
SB1812-1	1 ⁹ / ₁₆		1 ¹³ / ₁₆	1 ¹ / ₄	45	
SB1812-10	1 ⁹ / ₁₆		1 ¹³ / ₁₆	5 ¹ / ₁₆	45	
SB1812-11	1 ⁷ / ₁₆		1 ¹³ / ₁₆	5 ¹ / ₁₆	45	
SB1812-12	1 ⁵ / ₈		1 ¹³ / ₁₆	7 ¹ / ₃₂	45	
SB1812-13	1 ³ / ₈		1 ¹³ / ₁₆	7 ¹ / ₃₂	45	
SB1812-14	1 ³ / ₈		1 ¹³ / ₁₆	1 ¹ / ₄	45	
SB1812-15	1 ³ / ₈		1 ¹³ / ₁₆	5 ¹ / ₁₆	45	
SB1812-16	1 ³ / ₈		1 ¹³ / ₁₆	3 ⁵ / ₁₆	45	
SB1812-17	1 ⁷ / ₁₆		1 ¹³ / ₁₆	7 ¹ / ₃₂	45	
SB1812-18	1 ¹ / ₂		1 ¹³ / ₁₆	3 ⁵ / ₁₆	45	
SB1812-19	1 ⁹ / ₁₆		1 ¹³ / ₁₆	3 ⁵ / ₁₆	45	
SB1812-1N	1 ⁹ / ₁₆		1 ¹³ / ₁₆	1 ¹ / ₄	45	
SB1812-2	1 ¹ / ₂		1 ¹³ / ₁₆	7 ¹ / ₃₂	45	
SB1812-20	1 ¹ / ₂		1 ¹³ / ₁₆	7 ¹ / ₁₆	45	
SB1812-21N	1 ¹⁵ / ₃₂		1 ¹³ / ₁₆	5 ¹ / ₁₆	45	
SB1812-24	1 ⁵ / ₁₆		1 ¹³ / ₁₆	5 ¹ / ₁₆	45	
SB1812-25	1 ⁵ / ₁₆		1 ¹³ / ₁₆	3 ⁵ / ₁₆	45	
SB1812-3	1 ¹ / ₂ T	1 ⁵ / ₈	1 ¹³ / ₁₆	7 ¹ / ₃₂	45	
SB1812-34	1 ¹ / ₂		1 ¹³ / ₁₆	3 ¹ / ₁₆	45	
SB1812-36	1 ⁹ / ₁₆		1 ¹³ / ₁₆	3 ¹ / ₁₆	45	
SB1812-38	1 ⁹ / ₁₆		1 ¹³ / ₁₆	1 ¹ / ₄	45	
SB1812-4	1 ⁹ / ₁₆		1 ¹³ / ₁₆	7 ¹ / ₃₂	45	
SB1812-4N	1 ⁹ / ₁₆		1 ¹³ / ₁₆	7 ¹ / ₃₂	45	
SB1812-4PM	1 ⁹ / ₁₆		1 ¹³ / ₁₆	7 ¹ / ₃₂	45	
SB1812-5	1 ¹ / ₂		1 ¹³ / ₁₆	1 ¹ / ₄	45	
SB1812-50	1.490T	1.588	1 ¹³ / ₁₆	0.3070	45	
SB1812-51	1.530T	1.670	1 ¹³ / ₁₆	0.3070	45	
SB1812-52	1.440T	1.490	1 ¹³ / ₁₆	0.3150	45	
SB1812-53	1.420T	1.620	1 ¹³ / ₁₆	0.3150	45	
SB1812-54	1.405T	1.592	1 ¹³ / ₁₆	0.3150	45	
SB1812-55	1 ¹ / ₂ T	1.555	1 ¹³ / ₁₆	0.2780	45	
SB1812-56	1.535		1 ¹³ / ₁₆	0.2930	45	
SB1812-5N	1 ¹ / ₂		1 ¹³ / ₁₆	1 ¹ / ₄	45	
SB1812-7	1 ⁷ / ₁₆		1 ¹³ / ₁₆	1 ¹ / ₄	45	
SB1812-8	1 ¹ / ₂ T	1 ⁹ / ₁₆	1 ¹³ / ₁₆	7 ¹ / ₃₂	45	
SB1812-9	1 ¹ / ₂		1 ¹³ / ₁₆	5 ¹ / ₁₆	45	
SB1812-9N	1 ¹ / ₂		1 ¹³ / ₁₆	5 ¹ / ₁₆	45	
SB1812E-1	1 ⁹ / ₁₆ T	1.662	1.812	0.3650	45	See SB1818E-1
SB1812E-3	1.540T	1.610	1.812	0.3650	30	See SB1817E-3
SB1812E-4	1.450		1.812	0.1860	30	005,010,020,030
SB1812E-4+005	1.450		1.817	0.1860	30	

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB1812E-4+010	1.450		1.822	0.1860	30	
SB1812E-4+020	1.450		1.832	0.1860	30	
SB1812E-4+030	1.450		1.842	0.1860	30	
SB1812E-4T	1.520		1.812	0.2240	30	
SB1812E-6N	1.540		1.812	0.3650	20	010,020
SB1812E-6N+010	1.540		1.822	0.3650	20	
SB1812E-6N+020	1.540		1.832	0.3650	20	
SB1812E-7	1.535		1.812	0.3650	30	
SB1812E-8	1.530T	1.580	1.812	0.3650	30	
SB1812E-9	1.430		1.812	0.1860	30	005,010,020
SB1812E-9+005	1.430		1.817	0.1860	30	
SB1812E-9+010	1.430		1.822	0.1860	30	
SB1812E-9+020	1.430		1.832	0.1860	30	
SB1813E-1	1.540		1.813	0.3150	20	010,020
SB1813E-1+010	1.540		1.823	0.3150	20	
SB1813E-1+020	1.540		1.833	0.3150	20	
SB1814E-1	1.600		1.814	0.3150	45	
SB1814E-4C	1.550		1.814	0.2400	45	
SB1815E-1	1.595		1.815	1/4	45	
SB1815E-2	1.570		1.815	0.2610	30	
SB1817E-3	1.540T	1.610	1.817	0.3650	30	010,020,030,040
SB1817E-3+010	1.540T	1.610	1.827	0.3650	30	
SB1817E-3+020	1.540T	1.610	1.837	0.3650	30	
SB1817E-3+030	1.540T	1.610	1.847	0.3650	30	
SB1817E-3+040	1.540T	1.610	1.857	0.3650	30	
SB1818E-1	1 1/16T	1.662	1.818	0.3650	45	
SB1818E-2	1 1/16T	1.662	1.818	3/8	45	020
SB1818E-2+020	1 1/16T	1.662	1.838	3/8	45	
SB1819E-1	1.571		1.819	0.2830	30	005,010,020
SB1819E-1+005	1.571		1.824	0.2830	30	
SB1819E-1+010	1.571		1.829	0.2830	30	
SB1819E-1+020	1.571		1.839	0.2830	30	
SB1823E-1	1.560T	1.569	1.823	0.2730	30	
SB1828E-1	1 1/16		1.828	3/8	45	
SB1831E-1	1.555		1.831	0.2800	30	005,015,030
SB1831E-1+005	1.555		1.836	0.2800	30	
SB1831E-1+015	1.555		1.846	0.2800	30	
SB1831E-1+030	1.555		1.861	0.2800	30	
SB1831E-2	1.550		1.831	0.2530	20	005,015,030
SB1831E-2+005	1.550		1.836	0.2530	20	
SB1831E-2+015	1.550		1.846	0.2530	20	
SB1831E-2+030	1.550		1.861	0.2530	20	
SB1832E-1	1.510T	1.585	1.832	0.2410	30	
SB1835E-1	1.490R	1.631	1.835	0.2950	45	
SB1835E-2	1.470T	1.562	1.835	0.2400	20	
SB1835E-3C	1.515T	1.558	1.835	0.1880	20	
SB1835E-4	1.515T	1.558	1.835	0.1880	20	
SB1841E-1	1.560		1.841	0.2510	20	
SB1847E-1	1 1/16		1.846	9/32	30	
SB1850E-2	36.5mm		47mm	10mm	45	
SB1850E-2N	36.5mm		47mm	10mm	45	
SB1853E-1	1.498T	1.700	1.853	0.2730	30	
SB1853E-2	1.495T	1.556	1.853	0.2710	20	
SB1853E-3	1.515T	1.645	1.853	0.3080	45	
SB1854E-1	1.610T	1.680	1.854	0.2770	45	
SB1854E-2	1.609T	1.705	1.854	0.2775	45	
SB1856E-1	1.550T		1.857	0.2570	30	010
SB1856E-1+010	1.550T		1.867	0.2570	30	
SB1856E-2	1.325T	1.530	1.856	0.3100	30	
SB1857E-1	1.575T	1.660	1.857	0.2290	45	

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB1857E-1T	1.575T	1.660	1.857	0.2500	45	
SB1857E-2	1.573T	1.617	1.857	0.2290	20	
SB1858E-1N	1.608		1.858	0.2090	30	
SB1874E-2	1.556T	1.726	1.874	0.2380	45	010
SB1874E-2+010	1.556T	1.726	1.884	0.2380	45	
SB1874E-3	1.525R	1.603	1.874	0.2950	30	
SB1874E-4N	1.525R	1.603	1.874	0.2950	30	
SB1875-0	1½		1⅞	⅜	45	
SB1875-1	1⅝		1⅞	¼	45	
SB1875-11	1⅞		1⅞	⅝	45	
SB1875-12	1⅞		1⅞	¼	45	
SB1875-13	1½		1⅞	⅞	45	
SB1875-14	1½		1⅞	⅝	45	
SB1875-16	1⅞		1⅞	⅜	45	
SB1875-17	1⅝		1⅞	⅝	45	
SB1875-18	1⅝		1⅞	⅜	45	
SB1875-19	1⅞		1⅞	⅞	45	
SB1875-1N	1⅝		1⅞	¼	45	
SB1875-2	1⅞		1⅞	¼	45	
SB1875-20	1⅞		1⅞	⅞	45	
SB1875-21	1½		1⅞	⅞	45	
SB1875-32	1⅞		1⅞	⅝	45	
SB1875-33	1⅞		1⅞	⅜	45	
SB1875-35	1⅞		1⅞	¼	45	
SB1875-38	1⅝		1⅞	⅝	45	
SB1875-39	1⅝		1⅞	⅞	45	
SB1875-4	1⅝		1⅞	⅞	45	
SB1875-5	1⅝		1⅞	¼	45	
SB1875-50	1.640		1⅞	0.2800	45	
SB1875-51	1.575T	1.692	1⅞	0.3170	45	
SB1875-53	1.505T	1.689	1⅞	0.3800	45	
SB1875-54	1.575T	1.672	1⅞	0.2900	45	
SB1875-56	1.600T	1.673	1⅞	0.2520	45	
SB1875-56N	1.600T	1.673	1⅞	0.2520	45	
SB1875-57	1.505T	1.630	1⅞	0.2800	45	
SB1875-6	1⅝		1⅞	⅞	45	
SB1875-7	1⅞		1⅞	¼	45	
SB1875-8	1½T	1⅝	1⅞	⅞	45	
SB1875-9	1½		1⅞	¼	45	
SB1880E-1	1⅞		1.880	⅞	45	
SB1880E-2	1⅞T	1.625	1.880	⅞	30	020
SB1880E-2+020	1⅞T	1.625	1.900	⅞	30	
SB1882E-1C	1.595		1.882	0.3190	30	
SB1890E-2	37.5mm		48mm	10mm	45	
SB1890E-2N	37.5mm		48mm	10mm	45	
SB1891E-1	1.615T	1.637	1.891	0.3060	30	010,020,030
SB1891E-1+010	1.615T	1.637	1.901	0.3060	30	
SB1891E-1+020	1.615T	1.637	1.911	0.3060	30	
SB1891E-1+030	1.615T	1.637	1.921	0.3060	30	
SB1891E-2	1.615T	1.655	1.891	0.3060	30	
SB1894E-1	1.570T	1.660	1.894	0.2920	30	
SB1894E-4	1.580T	1.643	1.894	0.2410	30	
SB1899E-1	1⅞T	1.600	1.898	0.2750	30	
SB1900E-1	1.650		1.900	0.3000	45	
SB1900E-2	1.645		1.900	0.2500	45	020
SB1900E-2+020	1.645		1.920	0.2500	45	
SB1900E-3	1.650		1.900	0.2200	30	
SB1912E-1	1⅝		1.912	⅞	45	020
SB1912E-1+020	1⅝		1.932	⅞	45	
SB1919E-1N	1.665		1.919	0.2500	45	

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB1929E-1	38.5mm		49mm	10mm	45	
SB1929E-1N	38.5mm		49mm	10mm	45	
SB1932E-1	1.555R	1.650	1.932	0.3075	45	
SB1933E-2	1.454T	1.778	1.933	0.2410	30	
SB1934E-1	1.562		1.934	0.3100	20	
SB1937-0	1 ⁹ / ₁₆		1 ¹⁵ / ₁₆	3 ⁷ / ₈	45	
SB1937-1	1 ¹¹ / ₁₆		1 ¹⁵ / ₁₆	1 ¹ / ₄	45	
SB1937-10	1 ¹ / ₂		1 ¹⁵ / ₁₆	3 ⁷ / ₈	45	
SB1937-12	1.578T	1.720	1 ¹⁵ / ₁₆	0.2030	30	
SB1937-15	1 ¹¹ / ₁₆		1 ¹⁵ / ₁₆	9 ³ / ₃₂	45	
SB1937-17	1 ¹¹ / ₁₆		1 ¹⁵ / ₁₆	7 ³ / ₃₂	45	
SB1937-19	1 ³ / ₄		1 ¹⁵ / ₁₆	7 ³ / ₃₂	45	
SB1937-2	1 ⁵ / ₈		1 ¹⁵ / ₁₆	1 ¹ / ₄	45	
SB1937-23	1 ¹¹ / ₁₆		1 ¹⁵ / ₁₆	3 ¹ / ₁₆	45	
SB1937-27	1 ⁹ / ₁₆		1 ¹⁵ / ₁₆	7 ³ / ₃₂	45	
SB1937-3	1 ⁹ / ₁₆		1 ¹⁵ / ₁₆	5 ¹ / ₁₆	45	
SB1937-30	1 ¹¹ / ₁₆		1 ¹⁵ / ₁₆	5 ¹ / ₁₆	45	
SB1937-39	1 ⁷ / ₁₆		1 ¹⁵ / ₁₆	7 ¹ / ₁₆	45	
SB1937-4	1 ⁹ / ₁₆		1 ¹⁵ / ₁₆	1 ¹ / ₄	45	
SB1937-4N	1 ⁹ / ₁₆		1 ¹⁵ / ₁₆	1 ¹ / ₄	45	
SB1937-5	1 ⁵ / ₈		1 ¹⁵ / ₁₆	9 ³ / ₃₂	45	
SB1937-51	1.540T	1.718	1 ¹⁵ / ₁₆	0.3150	45	
SB1937-52	1.573T	1.620	1 ¹⁵ / ₁₆	0.3790	45	
SB1937-55	1.640T	1.730	1 ¹⁵ / ₁₆	0.2900	45	
SB1937-6	1 ⁵ / ₈		1 ¹⁵ / ₁₆	7 ³ / ₃₂	45	
SB1937-7	1 ⁵ / ₈		1 ¹⁵ / ₁₆	5 ¹ / ₁₆	45	
SB1937-8	1 ⁵ / ₈		1 ¹⁵ / ₁₆	3 ⁷ / ₈	45	
SB1937-9	1 ¹ / ₂		1 ¹⁵ / ₁₆	1 ¹ / ₄	45	
SB1940E-2	1.515T	1.631	1.940	0.3010	30	
SB1946E-1N	1.574		1.946	0.3150	45	
SB1951E-1	1.510T	1.642	1.951	0.2900	30	010
SB1951E-1+010	1.510T	1.642	1.961	0.2900	20	
SB1953E-2C	1.640T	1.670	1.953	0.2150	45	
SB1953E-3	1.640T	1.828	1.953	0.1950	20	005
SB1953E-3+005	1.640T	1.828	1.958	0.1950	20	
SB1953E-4	1.640T	1.819	1.953	0.1950	20	005,010
SB1953E-4+005	1.640T	1.819	1.958	0.1950	20	
SB1953E-4+010	1.640T	1.819	1.963	0.1950	20	
SB1953E-4C	1.640T	1.819	1.953	0.1950	20	
SB1957ST	1.563T	1.755	1.957	0.3130	30	
SB1969E-2	39mm		50mm	10.5mm	45	
SB1969E-2N	39mm		50mm	10.5mm	45	
SB1969E-3	1.704		1.969	0.2340	30	
SB1969E-4N	1.726T	1.656	1.969	0.2480	30	
SB1973E-1	1.658T	1.875	1.973	0.3000	45	
SB1991E-1N	1.616T	1.672	1.991	0.3090	45	
SB1999E-1	1.712T	1.767	1.999	0.3860	30	
SB2000-0	1 ⁵ / ₈		2.000	3 ⁷ / ₈	45	
SB2000-1	1 ³ / ₄		2.000	7 ³ / ₃₂	45	
SB2000-10	1 ⁹ / ₁₆		2.000	1 ¹ / ₄	45	
SB2000-11	1 ⁹ / ₁₆		2.000	5 ¹ / ₁₆	45	
SB2000-12	1 ⁵ / ₈		2.000	7 ³ / ₃₂	45	
SB2000-13	1 ⁵ / ₈		2.000	1 ¹ / ₄	45	
SB2000-13N	1 ⁵ / ₈		2.000	1 ¹ / ₄	45	
SB2000-14	1 ⁵ / ₈		2.000	5 ¹ / ₁₆	45	
SB2000-15	1 ¹¹ / ₁₆		2.000	7 ³ / ₃₂	45	
SB2000-16	1 ¹¹ / ₁₆		2.000	1 ¹ / ₄	45	
SB2000-17	1 ³ / ₄		2.000	1 ¹ / ₄	45	
SB2000-18	1 ³ / ₄		2.000	5 ¹ / ₁₆	45	
SB2000-1N	1 ³ / ₄		2.000	7 ³ / ₃₂	45	

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB2000-2	1 ¹¹ / ₁₆		2.000	9/32	45	
SB2000-24	1 ¹ / ₂		2.000	7/16	45	
SB2000-25	1.600		2.000	9/32	45	
SB2000-27	1 ⁵ / ₈		2.000	7/16	45	
SB2000-29	1 ¹¹ / ₁₆		2.000	5/16	45	
SB2000-3	1 ⁵ / ₈		2.000	19/64	45	
SB2000-33	1 ⁹ / ₁₆		2.000	7/32	45	
SB2000-34	1 ⁹ / ₁₆		2.000	3/8	45	
SB2000-36	1 ³ / ₄		2.000	3/16	45	
SB2000-38	1 ¹³ / ₁₆		2.000	1/4	45	
SB2000-3C	1 ⁵ / ₈		2.000	19/64	45	
SB2000-3N	1 ⁵ / ₈		2.000	19/64	45	
SB2000-4	1 ¹¹ / ₁₆		2.000	3/8	45	
SB2000-50	1.625T	1.800	2.000	0.3680	45	
SB2000-51	1.690T	1.765	2.000	0.2700	45	
SB2000-51PM	1.690T	1.765	2.000	0.2700	45	
SB2000-6	1 ⁵ / ₈		2.000	9/32	45	
SB2000-7	1 ¹³ / ₁₆		2.000	7/32	45	
SB2000-8	1 ⁷ / ₁₆		2.000	1/4	45	
SB2000-9	1 ¹ / ₂		2.000	3/8	45	
SB2001E-1	1.712T	1.870	2.001	0.3860	30	010,013
SB2001E-1+010	1.712T	1.870	2.011	0.3850	30	
SB2001E-1+013	1.712T	1.870	2.014	0.3850	30	
SB2001E-2	1.712T	1.870	2.001	0.3560	30	
SB2003E-1	1 ¹¹ / ₁₆		2.003	9/32	30	See SB2006E-1
SB2003E-1N	1 ¹¹ / ₁₆		2.003	9/32	30	See SB2006E-1N
SB2003E-3N	1 ¹¹ / ₁₆		2.003	0.2340	30	See SB2006E-3N
SB2003E-6N	1.625		2.003	0.2795	45	005,010
SB2003E-6N+005	1.625		2.008	0.2795	45	
SB2003E-6N+010	1.625		2.013	0.2795	45	
SB2004E-2	1 ¹¹ / ₁₆ T	1.748	2.003	7/16	30	See SB2006E-2
SB2004E-3N	1.685T	1.735	2.004	0.3170	30	005,010,020
SB2004E-3N+005	1.685T	1.735	2.009	0.3170	30	
SB2004E-3N+010	1.685T	1.735	2.014	0.3170	30	
SB2004E-3N+020	1.685T	1.735	2.024	0.3170	30	
SB2004E-4N	1.688		2.004	0.4380	30	
SB2006E-1	1 ¹¹ / ₁₆		2.006	9/32	30	005,010,020,030
SB2006E-1+005	1 ¹¹ / ₁₆		2.011	9/32	30	
SB2006E-1+010	1 ¹¹ / ₁₆		2.016	9/32	30	
SB2006E-1+020	1 ¹¹ / ₁₆		2.026	9/32	30	
SB2006E-1+030	1 ¹¹ / ₁₆		2.036	9/32	30	
SB2006E-1N	1 ¹¹ / ₁₆		2.006	9/32	30	005,010,020
SB2006E-1N+005	1 ¹¹ / ₁₆		2.011	9/32	30	
SB2006E-1N+010	1 ¹¹ / ₁₆		2.016	9/32	30	
SB2006E-1N+020	1 ¹¹ / ₁₆		2.026	9/32	30	
SB2006E-2	1 ¹¹ / ₁₆ T	1.748	2.006	7/16	30	010,020,030
SB2006E-2+010	1 ¹¹ / ₁₆ T	1.748	2.016	7/16	30	
SB2006E-2+020	1 ¹¹ / ₁₆ T	1.748	2.026	7/16	30	
SB2006E-2+030	1 ¹¹ / ₁₆ T	1.748	2.036	7/16	30	
SB2006E-3N	1 ¹¹ / ₁₆		2.006	0.2340	30	
SB2006E-5	1.690		2.006	0.2140	30	010,020,030
SB2006E-5+010	1.690		2.016	0.2140	30	
SB2006E-5+020	1.690		2.026	0.2140	30	
SB2006E-5+030	1.690		2.036	0.2140	30	
SB2006E-6C	1.630		2.006	0.2800	45	
SB2006E-7C	1.690		2.006	0.2150	30	
SB2008E-2	40mm		51mm	10.5mm	45	
SB2008E-2N	40mm		51mm	10.5mm	45	
SB2013E-1	1.770T	1.801	2.013	0.2885	45	
SB2020E-1	1.589		2.020	0.2825	45	

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB2047E-1	41mm		52mm	10.5mm	45	
SB2047E-1N	41mm		52mm	10.5mm	45	
SB2049E-1	1 ²⁵ / ₃₂ T	1.871	2.049	1 ¹ / ₃₂	30	005,010,020
SB2049E-1+005	1 ²⁵ / ₃₂ T	1.871	2.054	1 ¹ / ₃₂	30	
SB2049E-1+010	1 ²⁵ / ₃₂ T	1.871	2.059	1 ¹ / ₃₂	30	
SB2049E-1+020	1 ²⁵ / ₃₂ T	1.871	2.069	1 ¹ / ₃₂	30	
SB2051E-4	1.744T	1.957	2.051	0.2410	30	
SB2051E-5	1.744T	1.792	2.051	0.2410	30	
SB2051E-6	1.650T	1.749	2.051	0.3000	24.5	
SB2062-1	1 ¹³ / ₁₆ T	1 ⁷ / ₈	2 ¹ / ₁₆	1 ¹ / ₄	45	
SB2062-11	1 ⁵ / ₈		2 ¹ / ₁₆	1 ¹ / ₄	45	
SB2062-13	1 ⁹ / ₁₆		2 ¹ / ₁₆	3 ³ / ₈	45	
SB2062-15	1 ⁵ / ₈		2 ¹ / ₁₆	3 ³ / ₈	45	
SB2062-19	1 ⁹ / ₁₆		2 ¹ / ₁₆	5 ⁵ / ₁₆	45	
SB2062-2	1 ³ / ₄		2 ¹ / ₁₆	9 ⁹ / ₃₂	45	
SB2062-20	1 ⁹ / ₁₆		2 ¹ / ₁₆	7 ⁷ / ₁₆	45	
SB2062-21	1 ⁵ / ₈		2 ¹ / ₁₆	5 ⁵ / ₁₆	45	
SB2062-22	1 ¹¹ / ₁₆		2 ¹ / ₁₆	7 ⁷ / ₃₂	45	
SB2062-23	1 ¹¹ / ₁₆		2 ¹ / ₁₆	3 ³ / ₈	45	
SB2062-24	1 ¹¹ / ₁₆		2 ¹ / ₁₆	7 ⁷ / ₁₆	45	
SB2062-25	1 ³ / ₄		2 ¹ / ₁₆	7 ⁷ / ₃₂	45	
SB2062-27	1 ³ / ₄		2 ¹ / ₁₆	5 ⁵ / ₁₆	45	
SB2062-28	1 ³ / ₄		2 ¹ / ₁₆	1 ¹ / ₃₂	45	
SB2062-29	1 ¹³ / ₁₆		2 ¹ / ₁₆	7 ⁷ / ₃₂	45	
SB2062-3	1 ¹³ / ₁₆		2 ¹ / ₁₆	1 ¹ / ₄	45	
SB2062-30	1 ¹³ / ₁₆		2 ¹ / ₁₆	3 ³ / ₁₆	45	
SB2062-31	1 ¹³ / ₁₆		2 ¹ / ₁₆	5 ⁵ / ₁₆	45	
SB2062-4	1 ¹¹ / ₁₆		2 ¹ / ₁₆	1 ¹ / ₄	45	
SB2062-5	1 ¹¹ / ₁₆		2 ¹ / ₁₆	5 ⁵ / ₁₆	45	
SB2062-50	1.750		2 ¹ / ₁₆	0.4200	45	
SB2062-50N	1.750		2 ¹ / ₁₆	0.4200	45	
SB2062-51	1.750T	1.810	2 ¹ / ₁₆	0.3900	45	
SB2062-51N	1.750T	1.810	2 ¹ / ₁₆	0.3900	45	
SB2062-51PM	1.750T	1.810	2 ¹ / ₁₆	0.3900	45	
SB2062-52	1 ³ / ₄		2 ¹ / ₁₆	0.2800	45	
SB2062-52PM	1 ³ / ₄		2 ¹ / ₁₆	0.2800	45	
SB2062-6	1 ⁹ / ₁₆		2 ¹ / ₁₆	1 ¹ / ₄	45	
SB2062-8	1 ¹¹ / ₁₆		2 ¹ / ₁₆	9 ⁹ / ₃₂	45	
SB2062-9	1 ⁵ / ₈		2 ¹ / ₁₆	7 ⁷ / ₁₆	45	
SB2087E-2	42mm		53mm	10.5mm	45	
SB2087E-2N	42mm		53mm	10.5mm	45	
SB2088E-1	1.692		2.088	0.2990	30	015,030
SB2088E-1+015	1.692		2.103	0.2990	30	
SB2088E-1+030	1.692		2.118	0.2990	30	
SB2100E-1	1.782		2.100	0.2670	30	
SB2125-0	1 ³ / ₄		2 ¹ / ₈	3 ³ / ₈	45	
SB2125-1	1 ¹³ / ₁₆		2 ¹ / ₈	1 ¹ / ₄	45	
SB2125-10	1 ³ / ₄		2 ¹ / ₈	9 ⁹ / ₃₂	45	
SB2125-11	1 ³ / ₄		2 ¹ / ₈	7 ⁷ / ₃₂	45	
SB2125-15	1 ¹¹ / ₁₆		2 ¹ / ₈	5 ⁵ / ₁₆	30	
SB2125-16	1 ¹¹ / ₁₆		2 ¹ / ₈	1 ¹ / ₄	45	
SB2125-2	1 ⁷ / ₈		2 ¹ / ₈	1 ¹ / ₄	45	
SB2125-21	1 ⁹ / ₁₆		2 ¹ / ₈	3 ³ / ₈	45	
SB2125-26	1 ⁵ / ₈		2 ¹ / ₈	3 ³ / ₈	45	
SB2125-3	1 ¹⁵ / ₁₆		2 ¹ / ₈	3 ³ / ₁₆	45	
SB2125-30	1 ³ / ₄		2 ¹ / ₈	7 ⁷ / ₁₆	45	
SB2125-31	1 ¹³ / ₁₆		2 ¹ / ₈	7 ⁷ / ₃₂	45	
SB2125-32	1 ¹³ / ₁₆		2 ¹ / ₈	5 ⁵ / ₁₆	45	
SB2125-33	1 ¹³ / ₁₆		2 ¹ / ₈	3 ³ / ₈	45	
SB2125-34	1 ⁷ / ₈		2 ¹ / ₈	7 ⁷ / ₃₂	45	

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB2125-38	1 ¹³ / ₁₆		2 ¹ / ₈	3 ³ / ₁₆	45	
SB2125-39	1 ¹⁵ / ₁₆		2 ¹ / ₈	7 ³ / ₃₂	45	
SB2125-4	1 ²⁹ / ₃₂		2 ¹ / ₈	1 ¹ / ₄	45	
SB2125-6	1 ⁵ / ₈		2 ¹ / ₈	9 ³ / ₃₂	45	
SB2125-7	1 ³ / ₄		2 ¹ / ₈	1 ¹ / ₄	45	
SB2125-8	1 ³ / ₄		2 ¹ / ₈	5 ¹ / ₁₆	45	
SB2126E-1	43mm		54mm	10.5mm	45	
SB2126E-1N	43mm		54mm	10.5mm	45	
SB2126E-2	1.752T	1.806	2.126	0.3230	20	
SB2129E-1	1 ¹³ / ₁₆ T	1.863	2.129	7 ¹ / ₁₆	30	See SB2131E-1
SB2129E-2	1.752T	1.868	2.129	0.3060	30	
SB2131E-1	1 ¹³ / ₁₆ T	1.863	2.131	7 ¹ / ₁₆	30	010,020,030
SB2131E-1+010	1 ¹³ / ₁₆ T	1.863	2.141	7 ¹ / ₁₆	30	
SB2131E-1+020	1 ¹³ / ₁₆ T	1.863	2.151	7 ¹ / ₁₆	30	
SB2131E-1+030	1 ¹³ / ₁₆ T	1.863	2.161	7 ¹ / ₁₆	30	
SB2136E-1N	1.705T	1.785	2.136	0.3190	45	020
SB2136E-1N+020	1.705T	1.785	2.156	0.3190	45	
SB2136E-2PM	1.705		2.136	0.2950	30	
SB2136E-3PM	1.652		2.136	0.3100	37	
SB2150E-1	1-55/64		2.150	0.2920	30	010,020
SB2150E-1+010	1-55/64		2.160	0.2920	30	
SB2150E-1+020	1-55/64		2.170	0.2920	30	
SB2165E-1	44mm		55mm	11mm	45	
SB2165E-1N	44mm		55mm	11mm	45	
SB2187-1	1 ¹³ / ₁₆		2 ³ / ₁₆	1 ¹ / ₄	45	
SB2187-11	1 ⁷ / ₈		2 ³ / ₁₆	3 ¹ / ₁₆	45	
SB2187-12	1 ⁷ / ₈		2 ³ / ₁₆	1 ¹ / ₄	45	
SB2187-15	1 ³ / ₄		2 ³ / ₁₆	7 ³ / ₃₂	45	
SB2187-1C	1 ¹³ / ₁₆		2 ³ / ₁₆	1 ¹ / ₄	45	
SB2187-2	1 ¹³ / ₁₆		2 ³ / ₁₆	9 ³ / ₃₂	45	
SB2187-27	1 ¹⁵ / ₁₆		2 ³ / ₁₆	1 ¹ / ₄	45	
SB2187-3	1 ³ / ₄		2 ³ / ₁₆	9 ³ / ₃₂	45	
SB2187-31	1 ¹¹ / ₁₆		2 ³ / ₁₆	7 ¹ / ₁₆	45	
SB2187-4	1 ⁷ / ₈		2 ³ / ₁₆	9 ³ / ₃₂	45	
SB2187-50	1.820T	2.024	2 ³ / ₁₆	0.3410	45	
SB2187-50PM	1.820T	2.024	2 ³ / ₁₆	0.3410	45	
SB2187-7	1 ³ / ₄		2 ³ / ₁₆	7 ¹ / ₁₆	45	
SB2187-8	1 ³ / ₄		2 ³ / ₁₆	3 ¹ / ₈	45	
SB2187-9	1 ¹³ / ₁₆		2 ³ / ₁₆	3 ¹ / ₈	45	
SB2205E-2	45mm		56mm	11mm	45	
SB2212E-1N	1.960		2.212	0.2500	45	
SB2220E-1	1.843		2.220	0.3120	45	
SB2244E-1	46mm		57mm	11mm	45	
SB2250-1	1 ¹⁵ / ₁₆		2 ¹ / ₄	3 ¹ / ₁₆	45	
SB2250-10	2.000		2 ¹ / ₄	9 ³ / ₃₂	45	
SB2250-12	1 ¹⁵ / ₁₆		2 ¹ / ₄	9 ³ / ₃₂	45	
SB2250-13	1 ⁷ / ₈		2 ¹ / ₄	3 ¹ / ₈	45	
SB2250-15	1 ¹⁵ / ₁₆		2 ¹ / ₄	1 ¹ / ₄	45	
SB2250-16	1 ⁵ / ₈		2 ¹ / ₄	3 ¹ / ₈	45	
SB2250-17	1 ³ / ₄		2 ¹ / ₄	7 ¹ / ₁₆	45	
SB2250-18	1 ¹³ / ₁₆		2 ¹ / ₄	7 ¹ / ₁₆	45	
SB2250-2	1 ⁷ / ₈		2 ¹ / ₄	9 ³ / ₃₂	45	
SB2250-20	1 ⁷ / ₈		2 ¹ / ₄	5 ¹ / ₁₆	45	
SB2250-21	1 ⁵ / ₈		2 ¹ / ₄	5 ¹ / ₁₆	45	
SB2250-35	1 ¹⁵ / ₁₆		2 ¹ / ₄	7 ³ / ₃₂	45	
SB2250-36	2.000		2 ¹ / ₄	7 ³ / ₃₂	45	
SB2250-37	2.000		2 ¹ / ₄	1 ¹ / ₄	45	
SB2250-5	1 ³ / ₄		2 ¹ / ₄	7 ³ / ₃₂	45	
SB2250-50	1 ⁷ / ₈		2 ¹ / ₄	3 ¹ / ₈	45	
SB2250-50PM	1 ⁷ / ₈		2 ¹ / ₄	3 ¹ / ₈	45	

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB2250-7	1 $\frac{3}{4}$		2 $\frac{1}{4}$	$\frac{3}{8}$	45	
SB2250-8	1 $\frac{13}{16}$		2 $\frac{1}{4}$	$\frac{1}{4}$	45	
SB2250-9	1 $\frac{7}{8}$		2 $\frac{1}{4}$	$\frac{1}{4}$	45	
SB2284E-2	47mm		58mm	11mm	45	
SB2312-1	1 $\frac{7}{8}$		2 $\frac{5}{16}$	$\frac{9}{32}$	45	
SB2312-11	1 $\frac{13}{16}$		2 $\frac{5}{16}$	$\frac{3}{8}$	45	
SB2312-16	1 $\frac{15}{16}$		2 $\frac{5}{16}$	$\frac{1}{4}$	45	
SB2312-2	1 $\frac{15}{16}$		2 $\frac{5}{16}$	$\frac{9}{32}$	45	
SB2312-6	1 $\frac{3}{4}$		2 $\frac{5}{16}$	$\frac{1}{4}$	30	
SB2312-8	1 $\frac{13}{16}$		2 $\frac{5}{16}$	$\frac{7}{16}$	45	
SB2312-9	2.000		2 $\frac{5}{16}$	$\frac{1}{4}$	45	
SB2323E-2	48mm		59mm	11mm	45	
SB2366E-2N	1.977		2.366	0.3920	45	
SB2367E-1	2.045		2.367	0.3820	30	
SB2368E-2N	1.890		2.368	0.4600	20	See SB2388E-1N
SB2368E-3N	1.890T	1.935	2.368	0.4600	20	See SB2388E-2N
SB2375-15	1 $\frac{7}{8}$		2 $\frac{3}{8}$	$\frac{7}{16}$	45	
SB2375-2	2.000		2 $\frac{3}{8}$	$\frac{9}{32}$	45	
SB2375-2N	2.000		2 $\frac{3}{8}$	$\frac{9}{32}$	45	
SB2381E-1	1.930		2.381	0.3225	30	010
SB2381E-1+010	1.930		2.391	0.3225	30	
SB2381E-1C	1.930		2.381	0.3225	30	
SB2381E-2	2.030		2.381	0.3225	30	010
SB2381E-2+010	2.030		2.391	0.3225	30	
SB2381E-2C	2.030		2.381	0.3225	30	
SB2387E-1	1.970T	2.047	2.387	0.3820	30	
SB2387E-2	1.890		2.387	0.3610	20	
SB2388E-1N	1.890T	1.932	2.388	0.4600	20	
SB2388E-2N	1.890T	1.935	2.388	0.4600	20	
SB2402E-1	49mm		61mm	11.5mm	45	
SB2402E-1N	49mm		61mm	11.5mm	45	
SB2435E-1	2 $\frac{1}{8}$ T	2.207	2.435	$\frac{5}{8}$	30	010
SB2435E-1+010	2 $\frac{1}{8}$ T	2.207	2.445	$\frac{5}{8}$	30	
SB2435E-2N	2 $\frac{1}{8}$		2.435	0.6250	30	
SB2441E-1	50mm		62mm	11.5mm	45	
SB2441E-1N	50mm		62mm	11.5mm	45	
SB2444E-1	2.046		2.444	0.2990	30	015,030,062
SB2444E-1+015	2.046		2.459	0.2990	30	
SB2444E-1+030	2.046		2.474	0.2990	30	
SB2444E-1+062	2.046		2.506	0.2990	30	
SB2503E-1	2.000		2.503	$\frac{1}{2}$	45	See SB2506E-1
SB2503E-2	2 $\frac{1}{16}$ T	2.160	2.503	$\frac{1}{2}$	45	See SB2506E-2
SB2506E-1	2.000		2.506	$\frac{1}{2}$	45	020
SB2506E-1+020	2.000		2.526	$\frac{1}{2}$	45	
SB2506E-2	2 $\frac{1}{16}$ T	2.160	2.506	$\frac{1}{2}$	45	020
SB2506E-2+020	2 $\frac{1}{16}$ T	2.160	2.526	$\frac{1}{2}$	45	
SB2520E-1	52mm		64mm	11.5mm	45	
SB2562-1	2 $\frac{3}{16}$		2 $\frac{9}{16}$	$\frac{1}{4}$	30	
SB2590E-1	2 $\frac{9}{32}$ T	2.360	2.590	$\frac{5}{8}$	30	010,020
SB2590E-1+010	2 $\frac{9}{32}$ T	2.360	2.600	$\frac{5}{8}$	30	
SB2590E-1+020	2 $\frac{9}{32}$ T	2.360	2.610	$\frac{5}{8}$	30	
SB2677E-1	55mm		68mm	12mm	45	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1/2		1	1.0045	7/16	45	SB1000-3	
9/16		1 1/16	1.0670	7/16	45	SB1062-6	
5/8		1 1/8	1.1295	7/16	45	SB1125-11	
11/16		1 3/16	1.1920	7/16	45	SB1187-12	
3/4		1	1.0045	3/16	45	SB1000-1	
3/4		1 1/8	1.1295	1/4	45	SB1125-10	
3/4		1 1/4	1.2545	7/16	45	SB1250-13	
25/32		1 1/16	1.0670	3/16	45	SB1062-3	
25/32		1 1/16	1.0670	1/4	45	SB1062-4	
20mm		28mm	1.1024	8mm	45	SB1102E-1	
20mm		28mm	1.1024	8mm	45	SB1102E-1N	
0.790		1 1/16	1.0695	0.2540	45	SB1062-50	
20.5mm		26.5mm	1.0430	6.5mm	45	SB1043E-1N	
13/16		1	1.0045	3/16	45	SB1000-2	
13/16		1 1/16	1.0670	3/16	45	SB1062-5	
13/16		1 1/8	1.1295	3/16	45	SB1125-2	
13/16		1 5/16	1.3170	7/16	45	SB1312-16	
0.825T	0.925	1 1/8	1.1320	0.2850	45	SB1125-52	
21mm		29mm	1.1417	8.5mm	45	SB1142E-2N	
21mm		29mm	1.1417	8.5mm	45	SB1142E-2	
0.830		1 1/8	1.1320	0.2400	45	SB1125-55	
21.5mm		27.5mm	1.0827	6.5mm	45	SB1083E-2N	
0.854		1 1/8	1.1320	0.2370	45	SB1125-51	
22mm		30mm	1.1811	8.5mm	45	SB1181E-1	
22mm		30mm	1.1811	8.5mm	45	SB1181E-1N	
22mm		28.5mm	1.1220	7mm	45	SB1122E-1N	
0.870		1 1/16	1.0695	0.1950	45	SB1062-51	
7/8		1 1/16	1.0670	3/16	45	SB1062-2	
7/8		1 1/8	1.1295	3/16	45	SB1125-5	
7/8		1 1/8	1.1295	7/32	45	SB1125-1	
7/8		1 1/8	1.1295	1/4	45	SB1125-4	
7/8		1 1/8	1.1295	5/16	45	SB1125-7	
7/8		1 3/16	1.1920	1/4	45	SB1187-2	
7/8		1 1/4	1.2545	3/16	45	SB1250-4	
7/8		1 3/8	1.3795	7/16	45	SB1375-27	
0.880		1 3/16	1.1945	0.2800	45	SB1187-54	
0.890T	0.955	1.088	1.0888	0.2210	45	SB1088E-1	
0.890T	0.976	1 1/8	1.1320	0.2370	45	SB1125-53	
0.900		1 1/8	1.1320	0.3250	45	SB1125-54	
0.905		1 1/4	1.2550	1/4	45	SB1250-15N	
0.905		1 3/16	1.1945	0.2570	45	SB1187-51	
0.905T	1.005	1 1/4	1.2570	0.2300	45	SB1250-56	
23mm		29.5mm	1.1614	7mm	45	SB1161E-2N	
23mm		31mm	1.2205	8.5mm	45	SB1221E-2	
23mm		31mm	1.2205	8.5mm	45	SB1221E-2N	
0.910T	0.975	1.161	1.1610	0.2220	30	SB1161E-1	010,020,030,040,062
0.910T	0.975	1.171	1.1710	0.2220	30	SB1161E-1+010	
0.910T	0.975	1.181	1.1810	0.2220	30	SB1161E-1+020	
0.910T	0.975	1.191	1.1910	0.2220	30	SB1161E-1+030	
0.910T	0.975	1.201	1.2010	0.2220	30	SB1161E-1+040	
0.910T	0.975	1.223	1.2230	0.2220	30	SB1161E-1+062	
0.910T	1.052	1 1/4	1.2570	0.2850	45	SB1250-52	
0.930		1 1/4	1.2570	0.3250	45	SB1250-63	
0.934T	0.995	1 3/16	1.1945	0.2570	45	SB1187-52	
0.935		1 3/16	1.1945	0.2350	45	SB1187-53	
15/16		1 3/16	1.1920	1/4	45	SB1187-5	
15/16		1 1/8	1.1295	3/16	45	SB1125-6	
15/16		1 1/8	1.1295	7/32	45	SB1125-8	
15/16		1 3/16	1.1920	3/16	45	SB1187-4	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
15/16		13/8	1.3795	5/16	45	SB1375-10	
15/16		17/16	1.4420	7/16	45	SB1437-32	
24mm		30.5mm	1.2008	7mm	45	SB1201E-2N	
0.945T	1.032	1.175	1.1755	0.2210	45	SB1175E-1	
24mm		32mm	1.2598	8.5mm	45	SB1260E-1N	
24mm		32mm	1.2598	8.5mm	45	SB1260E-1	
0.955		1 1/4	1.2570	0.2550	45	SB1250-58	
0.960T	1.032	1.160	1.1600	0.2210	45	SB1160E-1	
0.965T	1.060	1 1/4	1.2570	1/4	45	SB1250-50	
0.965T	1.075	15/16	1.3195	0.2350	45	SB1312-63	
0.970		1 1/4	1.2570	0.2700	45	SB1250-64	
0.975T	1.045	1.267	1.2670	1/4	30	SB1262E-1+005	
0.975T	1.045	1.272	1.2720	1/4	30	SB1262E-1+010	
0.975T	1.045	1.282	1.2820	1/4	30	SB1262E-1+020	
0.975T	1.045	1.292	1.2920	1/4	30	SB1262E-1+030	
0.975T	1.045	1.302	1.3020	1/4	30	SB1262E-1+040	
0.975		15/16	1.3195	0.2800	45	SB1312-68	
0.975T	1.045	1.324	1.3240	1/4	30	SB1262E-1+062	
0.976		1 1/4	1.2570	0.1800	45	SB1250-61	
0.975T	1.045	1.262	1.2620	1/4	30	SB1262E-1	005,010,020,030,040,062
0.977T	1.098	1.264	1.2645	0.2370	45	SB1264E-1	005
0.977T	1.098	1.269	1.2695	0.2370	45	SB1264E-1+005	
0.980T	1.106	15/16	1.3195	0.2930	45	SB1312-53	
0.982		1 1/4	1.2570	0.3290	45	SB1250-59	
0.983		1.184	1.1840	0.2365	45	SB1184E-1	
25mm		33mm	1.2992	8.5mm	45	SB1299E-1	
25mm		33mm	1.2992	8.5mm	45	SB1299E-1N	
0.985T	1.103	1 1/4	1.2570	1/4	45	SB1250-66PM	
1.000		13/16	1.1920	3/16	45	SB1187-1	
1.000		13/16	1.1920	7/32	45	SB1187-7	
1.000		1 1/4	1.2545	3/16	45	SB1250-2	
1.000		1 1/4	1.2545	7/32	45	SB1250-1	
1.000		1 1/4	1.2545	1/4	45	SB1250-3	
1.000		1 1/4	1.2545	5/16	45	SB1250-12	
1.000		1 1/4	1.2545	3/8	45	SB1250-0	
1.000		1 1/4	1.2570	0.3050	45	SB1250-62	
1.000		15/16	1.3170	3/16	45	SB1312-2	
1.000		15/16	1.3170	7/32	45	SB1312-3	
1.000		15/16	1.3170	1/4	45	SB1312-4	
1.000		15/16	1.3170	5/16	45	SB1312-5	
1.000		1 3/8	1.3795	3/16	45	SB1375-8	
1.000		1 3/8	1.3795	9/32	45	SB1375-26	
1.000		1 3/8	1.3820	0.2800	45	SB1375-64	
1.000T	1.109	1 3/8	1.3820	0.4100	45	SB1375-52	
1.000		17/16	1.4420	1/4	45	SB1437-17	
1.000		17/16	1.4420	5/16	45	SB1437-18	
1.000		1 1/2	1.5045	3/8	45	SB1500-19	
1.000		1 1/2	1.5045	7/16	45	SB1500-33	
25.5mm		31.5mm	1.2401	7mm	45	SB1240E-2N	
1.010T	1.056	1 1/4	1.2570	0.2570	45	SB1250-54	
1.020T	1.123	1.218	1.2185	0.2210	45	SB1218E-1	
1.022T	1.085	1 3/8	1.3820	0.2300	45	SB1375-54	
1.023T	1.110	1 1/4	1.2570	0.2730	45	SB1250-60	
1.024		1 1/4	1.2570	0.2570	45	SB1250-53	
26mm		34mm	1.3386	8.5mm	45	SB1339E-2	
26mm		34mm	1.3386	8.5mm	45	SB1339E-2N	
26mm		35mm	1.3780	9mm	45	SB1378E-1	
26mm		35mm	1.3780	9mm	45	SB1378E-1N	
1.030		1 1/4	1.2570	0.2150	45	SB1250-65	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1.042		1 ⁵ / ₁₆	1.3195	0.2380	45	SB1312-67	
1.044		1 ⁵ / ₁₆	1.3195	0.2730	45	SB1312-59	
1.045		1 ⁵ / ₁₆	1.3195	0.3160	45	SB1312-64	
1.057T	1.110	1 ³ / ₈	1.3820	0.2400	45	SB1375-63	
1.060T	1.087	1 ⁵ / ₁₆	1.3195	0.2400	45	SB1312-52	
1.060		1 ⁵ / ₁₆	1.3195	0.2800	45	SB1312-57	
1.060T	1.150	1 ³ / ₈	1.3820	0.2800	45	SB1375-51	
1 ¹ / ₁₆		1 ⁵ / ₁₆	1.3170	³ / ₁₆	45	SB1312-1	
1 ¹ / ₁₆		1 ⁵ / ₁₆	1.3170	⁷ / ₃₂	45	SB1312-6	
1 ¹ / ₁₆		1 ⁵ / ₁₆	1.3170	¹ / ₄	45	SB1312-9	
1 ¹ / ₁₆		1 ⁵ / ₁₆	1.3170	⁵ / ₁₆	45	SB1312-10	
1 ¹ / ₁₆		1 ⁵ / ₁₆	1.3170	³ / ₈	45	SB1312-0	
1 ¹ / ₁₆		1 ³ / ₈	1.3795	³ / ₁₆	45	SB1375-3N	
1 ¹ / ₁₆		1 ³ / ₈	1.3795	³ / ₁₆	45	SB1375-3	
1 ¹ / ₁₆		1 ³ / ₈	1.3795	⁷ / ₃₂	45	SB1375-6	
1 ¹ / ₁₆		1 ³ / ₈	1.3795	¹ / ₄	45	SB1375-7	
1 ¹ / ₁₆		1 ³ / ₈	1.3795	⁵ / ₁₆	45	SB1375-18	
27mm		36mm	1.4173	9mm	45	SB1417E-1	
27mm		36mm	1.4173	9mm	45	SB1417E-1N	
1 ¹ / ₁₆		1 ⁷ / ₁₆	1.4420	³ / ₁₆	45	SB1437-9	
1 ¹ / ₁₆		1 ⁷ / ₁₆	1.4420	⁵ / ₁₆	45	SB1437-22	
1 ¹ / ₁₆		1 ¹ / ₂	1.5045	⁵ / ₁₆	45	SB1500-23	
1 ¹ / ₁₆		1 ⁹ / ₁₆	1.5670	³ / ₈	45	SB1562-26	
1 ¹ / ₁₆		1 ⁹ / ₁₆	1.5670	⁷ / ₁₆	45	SB1562-44	
1.065T	1.120	1 ⁵ / ₁₆	1.3195	0.2850	45	SB1312-62	
1.069T	1.180	1.343	1.3430	0.2370	45	SB1343E-1	005
1.069T	1.180	1.348	1.3480	0.2370	45	SB1343E-1+005	
1.086		1 ⁵ / ₁₆	1.3195	0.3050	45	SB1312-56	
1.086T	1.153	1 ⁵ / ₁₆	1.3195	0.3050	45	SB1312-50	
1.087		1.348	1.3480	0.2000	45	SB1348E-1N	010
1.087		1.358	1.3580	0.2000	45	SB1348E-1N+010	
1.090T	1.101	1 ⁷ / ₁₆	1.4445	0.3540	45	SB1437-53	
1 ³ / ₃₂		1 ⁵ / ₁₆	1.3170	⁷ / ₃₂	45	SB1312-11	
1 ³ / ₃₂		1 ³ / ₈	1.3795	0.2030	45	SB1375-25	
1.095T	1.262	1 ⁷ / ₁₆	1.4445	0.2370	45	SB1437-58	
28mm		37mm	1.4571	9mm	45	SB1457E-2N	
28mm		37mm	1.4571	9mm	45	SB1457E-2	
1.100T	1.210	1 ³ / ₈	1.3820	0.3000	45	SB1375-62	
1.100T	1.213	1 ¹ / ₂	1.5070	0.3160	45	SB1500-57	
1.100T	1.130	1.375	1.3750	0.2270	45	SB1375E-2N	005,010,020
1.100T	1.140	1.375	1.3750	0.2270	30	SB1375E-1	010
1.100T	1.130	1.380	1.3800	0.2270	45	SB1375E-2N+005	
1.100T	1.130	1.385	1.3850	0.2270	45	SB1375E-2N+010	
1.100T	1.140	1.385	1.3850	0.2270	30	SB1375E-1+010	
1.100T	1.130	1.395	1.3950	0.2270	45	SB1375E-2N+020	
1.102		1 ³ / ₈	1.3820	0.2600	45	SB1375-56	
28mm		34.5mm	1.3582	7mm	45	SB1358E-1N	
1.102T	1.146	1.382	1.3819	0.3012	N/A	SB1382E-2	
1.105		1 ⁷ / ₁₆	1.4445	0.3220	45	SB1437-65	
1.107T	1.217	1 ³ / ₈	1.3820	0.2370	45	SB1375-60	
1.107T	1.142	1.288	1.2880	0.2580	45	SB1288E-1	030
1.107T	1.142	1.318	1.3180	0.2580	45	SB1288E-1+030	
1.109T	1.218	1 ³ / ₈	1.3820	0.2550	45	SB1375-50N	
1.109T	1.218	1 ³ / ₈	1.3820	0.2550	45	SB1375-50	
1.110T	1.215	1 ⁷ / ₁₆	1.4445	0.3150	45	SB1437-56	
1.114T	1.135	1.322	1.3220	0.2360	45	SB1322E-1	
1.120		1 ³ / ₈	1.3820	0.3250	45	SB1375-55	
1.120		1 ⁷ / ₁₆	1.4445	0.3000	45	SB1437-66	
28.5mm		35.5mm	1.3976	7.5mm	45	SB1398E-1N	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1.125T	1.219	1.437	1.4370	0.2365	30	SB1437E-2	
1 $\frac{1}{8}$		1 $\frac{5}{16}$	1.3170	3 $\frac{1}{16}$	45	SB1312-7	
1 $\frac{1}{8}$		1 $\frac{5}{16}$	1.3170	7 $\frac{32}$	45	SB1312-13	
1 $\frac{1}{8}$		1 $\frac{3}{8}$	1.3795	3 $\frac{1}{16}$	45	SB1375-4	
1 $\frac{1}{8}$		1 $\frac{3}{8}$	1.3795	7 $\frac{32}$	45	SB1375-1	030
1 $\frac{1}{8}$		1 $\frac{3}{8}$	1.3795	1 $\frac{4}$	45	SB1375-2	
1 $\frac{1}{8}$		1 $\frac{3}{8}$	1.3795	17 $\frac{64}$	45	SB1375-5	
1 $\frac{1}{8}$		1 $\frac{3}{8}$	1.3795	3 $\frac{8}$	45	SB1375-0	
1 $\frac{1}{8}$		1 $\frac{3}{8}$	1.3800	7 $\frac{32}$	45	SB1375-1N	
1 $\frac{1}{8}$		1.410	1.4095	7 $\frac{32}$	45	SB1375-1+030	
1 $\frac{1}{8}$		1 $\frac{7}{16}$	1.4420	3 $\frac{1}{16}$	45	SB1437-10	
1 $\frac{1}{8}$		1 $\frac{7}{16}$	1.4420	7 $\frac{32}$	45	SB1437-4	
1 $\frac{1}{8}$		1 $\frac{7}{16}$	1.4420	1 $\frac{4}$	45	SB1437-8	
1 $\frac{1}{8}$		1 $\frac{7}{16}$	1.4420	5 $\frac{16}$	45	SB1437-6	
1.125		1 $\frac{7}{16}$	1.4445	0.2570	45	SB1437-60	
1 $\frac{1}{8}$		1 $\frac{1}{2}$	1.5045	3 $\frac{1}{16}$	45	SB1500-5	
1 $\frac{1}{8}$		1 $\frac{1}{2}$	1.5045	7 $\frac{32}$	45	SB1500-8	
1 $\frac{1}{8}$		1 $\frac{1}{2}$	1.5045	5 $\frac{16}$	45	SB1500-9	
1 $\frac{1}{8}$		1 $\frac{9}{16}$	1.5670	1 $\frac{4}$	45	SB1562-15	
1 $\frac{1}{8}$		1 $\frac{9}{16}$	1.5670	5 $\frac{16}$	45	SB1562-28	
1 $\frac{1}{8}$		1 $\frac{9}{16}$	1.5670	3 $\frac{8}$	45	SB1562-29	
1 $\frac{1}{8}$		1 $\frac{5}{8}$	1.6300	7 $\frac{16}$	45	SB1625-41	
1.130T	1.272	1 $\frac{3}{8}$	1.3820	0.3040	45	SB1375-61	
1.130T	1.272	1 $\frac{3}{8}$	1.3820	0.3040	45	SB1375-61N	
1.130T	1.311	1 $\frac{7}{16}$	1.4420	0.2500	45	SB1437-51	
1.135T	1.250	1 $\frac{7}{16}$	1.4445	0.3160	45	SB1437-68	
1.140T	1.228	1 $\frac{7}{16}$	1.4445	0.2370	45	SB1437-69	
1.140T	1.241	1 $\frac{7}{16}$	1.4445	0.3050	45	SB1437-50	
1.142T	1.265	1 $\frac{7}{16}$	1.4445	0.3360	45	SB1437-73	
29mm		38mm	1.4961	9mm	45	SB1496E-1N	
29mm		38mm	1.4961	9mm	45	SB1496E-1	
1-9/64T	1.200	1.442	1.4420	1 $\frac{4}$	30	SB1442E-1	005,020,030,040,063
1.150T	1.243	1 $\frac{7}{16}$	1.4445	0.2570	45	SB1437-72	
1-9/64T	1.200	1.447	1.4470	1 $\frac{4}$	30	SB1442E-1+005	
1-9/64T	1.200	1.462	1.4620	1 $\frac{4}$	30	SB1442E-1+020	
1-9/64T	1.200	1.472	1.4720	1 $\frac{4}$	30	SB1442E-1+030	
1-9/64T	1.200	1.482	1.4820	1 $\frac{4}$	30	SB1442E-1+040	
1-9/64T	1.200	1.505	1.5050	1 $\frac{4}$	30	SB1442E-1+063	
29.5mm		36.5mm	1.4370	7.5mm	45	SB1437E-3N	
1.161T	1.240	1.381	1.3810	0.2550	30	SB1381E-1	
1.162		1 $\frac{7}{16}$	1.4445	0.2300	45	SB1437-74	
1.162		1 $\frac{7}{16}$	1.4445	0.3100	45	SB1437-61	
1.165		1 $\frac{3}{8}$	1.3820	0.3100	45	SB1375-65	
1.170	1.205	1.400	1.4000	0.2170	45	SB1400E-1PM	
1.170		1 $\frac{9}{16}$	1.5695	0.2670	45	SB1562-77	
1.175		1 $\frac{7}{16}$	1.4445	0.2600	45	SB1437-75	
1.175T	1.235	1 $\frac{1}{2}$	1.5070	0.2360	45	SB1500-77	
30mm		39mm	1.5358	9mm	45	SB1535E-1	
30mm		39mm	1.5358	9mm	45	SB1535E-1N	
1.180T	1.270	1 $\frac{7}{16}$	1.4445	0.2550	45	SB1437-67	
1.180T	1.245	1 $\frac{7}{16}$	1.4445	0.3050	45	SB1437-59	
1.180T	1.280	1 $\frac{1}{2}$	1.5070	0.2140	45	SB1500-74	
1.180		1 $\frac{1}{2}$	1.5070	0.3000	45	SB1500-75	
1.180T	1.241	1 $\frac{1}{2}$	1.5070	0.3070	45	SB1500-53	
1.180T	1.325	1 $\frac{1}{2}$	1.5070	0.3070	45	SB1500-54	
1.180		1 $\frac{9}{16}$	1.5695	0.3160	45	SB1562-72	
1.181T	1.285	1 $\frac{7}{16}$	1.4445	0.2800	45	SB1437-63	
30mm		40mm	1.5748	9.5mm	45	SB1575E-3	
30mm		40mm	1.5748	9.5mm	45	SB1575E-3N	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1.185R	1.272	1.420	1.4200	0.2365	30	SB1420E-2	
1 ³ / ₁₆		1 ³ / ₈	1.3795	7 ⁷ / ₃₂	45	SB1375-22	
1 ³ / ₁₆		1 ⁷ / ₁₆	1.4420	3 ³ / ₁₆	45	SB1437-24	
1 ³ / ₁₆		1 ⁷ / ₁₆	1.4420	7 ⁷ / ₃₂	45	SB1437-3N	
1 ³ / ₁₆		1 ⁷ / ₁₆	1.4420	7 ⁷ / ₃₂	45	SB1437-3	
1 ³ / ₁₆		1 ⁷ / ₁₆	1.4420	1 ¹ / ₄	45	SB1437-5	
1 ³ / ₁₆		1 ⁷ / ₁₆	1.4420	5 ⁵ / ₁₆	45	SB1437-25	
1 ³ / ₁₆		1 ⁷ / ₁₆	1.4425	7 ⁷ / ₃₂	45	SB1437-3PM	
1 ³ / ₁₆		1 ¹ / ₂	1.5045	7 ⁷ / ₃₂	45	SB1500-2	
1 ³ / ₁₆		1 ¹ / ₂	1.5045	1 ¹ / ₄	45	SB1500-6	
1 ³ / ₁₆		1 ¹ / ₂	1.5045	5 ⁵ / ₁₆	45	SB1500-10	
1 ³ / ₁₆		1 ¹ / ₂	1.5045	3 ³ / ₈	45	SB1500-26	
1 ³ / ₁₆		1 ⁹ / ₁₆	1.5670	7 ⁷ / ₃₂	45	SB1562-13	
1 ³ / ₁₆ T	1 ³ / ₈	1 ⁹ / ₁₆	1.5670	7 ⁷ / ₃₂	45	SB1562-42	
1 ³ / ₁₆		1 ⁹ / ₁₆	1.5670	1 ¹ / ₄	45	SB1562-31	
1 ³ / ₁₆ T	1 ¹ / ₄	1 ⁹ / ₁₆	1.5670	0.3100	45	SB1562-34	
1 ³ / ₁₆		1 ⁹ / ₁₆	1.5670	5 ⁵ / ₁₆	30	SB1562-11	
1 ³ / ₁₆		1 ⁹ / ₁₆	1.5670	3 ³ / ₈	45	SB1562-0	
1 ³ / ₁₆		1 ⁵ / ₈	1.6300	3 ³ / ₈	45	SB1625-8	
1 ³ / ₁₆		1 ¹¹ / ₁₆	1.6925	7 ⁷ / ₁₆	45	SB1687-42	
1.200T	1.277	1.476	1.4760	0.2445	30	SB1476E-2	
1.200		1 ⁷ / ₁₆	1.4445	0.2970	45	SB1437-62	
1.200		1.459	1.4595	0.2170	24.5	SB1459E-1	
1.200T	1.220	1 ¹ / ₂	1.5070	0.3150	45	SB1500-58	
30.5mm		37.5mm	1.4763	7.5mm	45	SB1476E-3N	
1-13/64T	1.245	1.441	1.4410	0.2150	30	SB1441E-1	
1.203T	1.266	1 ¹ / ₂	1.5070	0.2800	45	SB1500-50	
1.203T	1.266	1 ¹ / ₂	1.5070	0.2800	45	SB1500-50N	
1.203		1 ¹ / ₂	1.5070	0.2830	45	SB1500-70	
1-13/64		1.681	1.6810	5 ⁵ / ₁₆	45	SB1681E-1	
1.203T	1.266	1 ¹ / ₂	1.5070	0.2800	45	SB1500-50PM	
1.210T	1.248	1 ¹ / ₂	1.5070	0.3450	45	SB1500-63	
1.210R	1.369	1.579	1.5795	0.2525	30	SB1579E-1C	
1.210T	1.295	1.479	1.4790	0.2570	45	SB1479E-1C	
1 ⁷ / ₃₂		1 ⁷ / ₁₆	1.4420	7 ⁷ / ₃₂	45	SB1437-2	
1 ⁷ / ₃₂		1 ⁷ / ₁₆	1.4420	7 ⁷ / ₃₂	45	SB1437-2N	
1 ⁷ / ₃₂		1 ⁷ / ₁₆	1.4420	1 ¹ / ₄	45	SB1437-14	
1 ⁷ / ₃₂		1.442	1.4420	1 ¹ / ₃₂	45	SB1442E-2	
1 ⁷ / ₃₂		1 ⁷ / ₁₆	1.4425	7 ⁷ / ₃₂	45	SB1437-2PM	
1 ⁷ / ₃₂ T	1 ¹¹ / ₃₂	1 ¹ / ₂	1.5045	7 ⁷ / ₃₂	45	SB1500-4	
1 ⁷ / ₃₂		1 ¹ / ₂	1.5045	1 ¹ / ₄	45	SB1500-11	
1.219		1 ⁹ / ₁₆	1.5695	0.3170	45	SB1562-69N	
1.219		1 ⁹ / ₁₆	1.5695	0.3170	45	SB1562-69	
1.220T	1.284	1 ¹ / ₂	1.5070	0.3100	45	SB1500-62	
1.220T	1.356	1 ⁹ / ₁₆	1.5695	0.3440	45	SB1562-54	
1.220R	1.353	1.587	1.5870	0.3150	45	SB1587E-1	
31mm		41mm	1.6142	9.5mm	45	SB1614E-1N	
31mm		41mm	1.6142	9.5mm	45	SB1614E-1	
1.230		1 ¹ / ₂	1.5070	0.2780	45	SB1500-73	
1.230		1 ¹ / ₂	1.5070	0.2780	45	SB1500-73N	
1.230		1 ⁹ / ₁₆	1.5695	0.2780	45	SB1562-78	
1.240		1 ¹ / ₂	1.5070	0.3170	45	SB1500-71	
31.5mm		38.5mm	1.5157	7.5mm	45	SB1516E-2N	
1.240R	1.345	1.538	1.5385	0.2540	45	SB1539E-5	
1.240T	1.395	1.538	1.5385	0.2550	45	SB1538E-2	
1.245T	1.268	1 ⁹ / ₁₆	1.5695	0.3540	45	SB1562-51	
1.245T	1.325	1.518	1.5180	0.2450	45	SB1518E-1	
1.246T	1.303	1 ⁹ / ₁₆	1.5695	0.2300	45	SB1562-57	
1 ¹ / ₄		1 ⁷ / ₁₆	1.4420	3 ³ / ₁₆	45	SB1437-28	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1¼		17/16	1.4420	7/32	45	SB1437-1N	
1¼		17/16	1.4420	7/32	45	SB1437-1	
1¼		17/16	1.4420	5/16	45	SB1437-30	
1¼		1½	1.5045	3/16	45	SB1500-13	
1¼		1½	1.5045	7/32	45	SB1500-1	
1¼		1½	1.5045	7/32	45	SB1500-1PM	
1¼		1½	1.5045	¼	45	SB1500-3	003
1¼		1½	1.5045	9/32	45	SB1500-28	
1¼		1½	1.5045	5/16	45	SB1500-12	
1¼		1.504	1.5045	0.3350	45	SB1505E-1	
1¼		1½	1.5045	3/8	45	SB1500-0	
1¼		1½	1.5050	7/32	45	SB1500-1N	
1.250		1½	1.5070	0.2300	45	SB1500-80	
1¼		1.507	1.5075	¼	45	SB1500-3+003	
1¼		1.516	1.5160	¼	45	SB1516E-1	
1¼		19/16	1.5670	3/16	45	SB1562-16	
1¼		19/16	1.5670	7/32	45	SB1562-6	
1¼		19/16	1.5670	¼	45	SB1562-7	
1¼		19/16	1.5670	5/16	45	SB1562-17	
1¼		19/16	1.5670	3/8	45	SB1562-35	
1¼		19/16	1.5675	7/32	45	SB1562-6N	
1¼		19/16	1.5680	7/32	45	SB1562-6PM	
1¼		19/16	1.5680	9/32	45	SB1562-46N	
1¼		15/8	1.6300	7/32	45	SB1625-9	
1¼		15/8	1.6300	¼	45	SB1625-6	
1¼		15/8	1.6300	5/16	45	SB1625-7	
1¼		15/8	1.6300	3/8	45	SB1625-29	
1¼T	1.408	15/8	1.6320	0.2930	45	SB1625-60	
1¼		111/16	1.6925	7/32	45	SB1687-22	
1¼		111/16	1.6925	¼	45	SB1687-19	
1¼		111/16	1.6925	5/16	45	SB1687-23	
1¼		1¾	1.7550	¼	45	SB1750-10	
1¼		1¾	1.7550	5/16	45	SB1750-20	
1¼		1¾	1.7550	7/16	45	SB1750-43	
1.251ST	1.351	1.681	1.6810	3/8	45	SB1681E-3	
1.251ST	1.351	1.690	1.6900	3/8	45	SB1690E-1	
1.255T	1.307	19/16	1.5695	0.3190	45	SB1562-67	
1.255T	1.437	15/8	1.6320	0.3000	45	SB1625-53	
1.255T	1.405	1.536	1.5365	0.3585	45	SB1536E-2N	015
1.255T	1.405	1.551	1.5515	0.3585	45	SB1536E-2N+015	
1.260T	1.412	19/16	1.5695	0.2800	45	SB1562-50	
1.260T	1.427	15/8	1.6320	0.3150	45	SB1625-52	
32mm		42mm	1.6535	9.5mm	45	SB1654E-3N	
32mm		42mm	1.6535	9.5mm	45	SB1654E-3	
1.260R	1.359	1.696	1.6960	0.2860	30	SB1696E-1C	
1.265T	1.294	19/16	1.5695	0.2800	45	SB1562-66	
1.265T	1.294	19/16	1.5695	0.2800	45	SB1562-66PM	
1.270		1.486	1.4860	0.2910	30	SB1486E-1	
1.273T	1.387	1.656	1.6560	0.3170	30	SB1656E-2	
1.275T	1.318	1½	1.5070	0.2500	45	SB1500-56	
1.275T	1.402	1.541	1.5410	0.2410	N/A	SB1541E-1	
32.5mm		39.5mm	1.5551	7.5mm	45	SB1555E-1N	
1.280T	1.361	15/8	1.6300	0.3150	45	SB1625-58	
1.280T	1.347	1.538	1.5378	0.2560	45	SB1538E-3	
1.280T	1.324	1.554	1.5545	0.2360	30	SB1554E-1	010,020
1.280T	1.324	1.564	1.5645	0.2360	30	SB1554E-1+010	
1.280T	1.324	1.574	1.5745	0.2360	30	SB1554E-1+020	
1.288T	1.299	1.490	1.4900	¼	45	SB1480E-2+010	
1.288T	1.299	1.480	1.4800	¼	45	SB1480E-2	010

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1.290T	1.325	1 ⁹ / ₁₆	1.5695	0.3240	45	SB1562-74	
33mm		43mm	1.6933	9.5mm	45	SB1693E-4	
1.295		1 ¹ / ₂	1.5070	0.2620	45	SB1500-79	
1.295		1.540	1.5400	0.2610	30	SB1540E-1	
1.295R	1.439	1.696	1.6960	0.3160	30	SB1696E-2C	
1.297T	1.390	1.539	1.5395	0.2760	N/A	SB1539E-2	
1.298T	1.382	1 ⁵ / ₈	1.6320	0.3170	45	SB1625-56	010,030
1.298T	1.382	1.642	1.6420	0.3170	45	SB1625-56+010	
1.298T	1.382	1.662	1.6620	0.3170	45	SB1625-56+030	
33mm		43mm	1.6929	9.5mm	45	SB1693E-4N	
33mm		40.5mm	1.5944	8mm	45	SB1594E-1N	
1.300R	1.433	1.658	1.6585	0.2880	30	SB1658E-1C	
1.300R	1.426	1.697	1.6975	0.2950	40	SB1697E-2	
1.300T	1.331	1.578	1.5775	0.3170	45	SB1578E-1	
1.301T	1.348	1.554	1.5545	0.1900	45	SB1554E-2	010,020
1.301T	1.348	1.564	1.5645	0.1900	45	SB1554E-2+010	
1.301T	1.348	1.574	1.5745	0.1900	45	SB1554E-2+020	
1.310T	1.421	1.727	1.7270	0.3800	45	SB1727E-2N	
1.310T	1.398	1.527	1.5270	0.2580	45	SB1527E-1	030
1.310T	1.398	1.557	1.5570	0.2580	45	SB1527E-1+030	
1 ⁵ / ₁₆		1 ⁹ / ₁₆	1.5680	⁷ / ₃₂	45	SB1562-1PM	
1 ⁵ / ₁₆		1 ⁵ / ₈	1.6300	⁷ / ₃₂	45	SB1625-4PM	
1.312T	1.460	1.657	1.6570	0.3950	45	SB1657E-1	
1 ⁵ / ₁₆		1 ⁹ / ₁₆	1.5670	⁷ / ₃₂	45	SB1562-1	005,010
1 ⁵ / ₁₆		1 ⁹ / ₁₆	1.5670	⁵ / ₁₆	45	SB1562-18	
1 ⁵ / ₁₆		1.572	1.5720	⁷ / ₃₂	45	SB1562-1+005	
1 ⁵ / ₁₆		1.577	1.5770	⁷ / ₃₂	45	SB1562-1+010	
1 ⁵ / ₁₆		1 ⁵ / ₈	1.6305	¹ / ₄	45	SB1625-3N	
1 ⁵ / ₁₆		1 ¹ / ₂	1.5045	³ / ₁₆	45	SB1500-29	
1 ⁵ / ₁₆		1 ¹ / ₂	1.5045	⁷ / ₃₂	45	SB1500-30	
1 ⁵ / ₁₆		1 ⁹ / ₁₆	1.5670	³ / ₁₆	45	SB1562-36	
1 ⁵ / ₁₆		1 ⁹ / ₁₆	1.5670	⁷ / ₃₂	30	SB1562-8	
1 ⁵ / ₁₆ T	1 ³ / ₈	1 ⁹ / ₁₆	1.5670	⁷ / ₃₂	45	SB1562-9N	
1 ⁵ / ₁₆ T	1 ³ / ₈	1 ⁹ / ₁₆	1.5670	⁷ / ₃₂	45	SB1562-9	
1 ⁵ / ₁₆		1 ⁹ / ₁₆	1.5670	¹ / ₄	45	SB1562-4	010
1 ⁵ / ₁₆ T	1 ³ / ₈	1 ⁹ / ₁₆	1.5670	¹ / ₄	45	SB1562-2	
1 ⁵ / ₁₆ T	1 ³ / ₈	1 ⁹ / ₁₆	1.5670	¹ / ₄	45	SB1562-2N	
1 ⁵ / ₁₆		1 ⁹ / ₁₆	1.5670	³ / ₈	45	SB1562-39	
1 ⁵ / ₁₆		1 ⁹ / ₁₆	1.5675	³ / ₁₆	45	SB1562-36N	
1 ⁵ / ₁₆		1 ⁹ / ₁₆	1.5680	⁷ / ₃₂	45	SB1562-1N	
1 ⁵ / ₁₆		1.577	1.5770	¹ / ₄	45	SB1562-4+010	
1 ⁵ / ₁₆		1 ⁵ / ₈	1.6300	³ / ₁₆	45	SB1625-30	
1 ⁵ / ₁₆		1.6300	1.6300	⁷ / ₃₂	45	SB1625-4N	
1 ⁵ / ₁₆		1 ⁵ / ₈	1.6300	⁷ / ₃₂	45	SB1625-4	020
1 ⁵ / ₁₆		1 ⁵ / ₈	1.6300	¹ / ₄	45	SB1625-3	
1 ⁵ / ₁₆		1 ⁵ / ₈	1.6300	⁹ / ₃₂	45	SB1625-18	
1 ⁵ / ₁₆		1 ⁵ / ₈	1.6300	⁵ / ₁₆	45	SB1625-10	
1 ⁵ / ₁₆		1 ⁵ / ₈	1.6300	0.3950	45	SB1625-20	
1 ⁵ / ₁₆		1.650	1.6500	⁷ / ₃₂	45	SB1625-4+020	
1 ⁵ / ₁₆		1 ¹¹ / ₁₆	1.6925	⁷ / ₃₂	45	SB1687-9	
1 ⁵ / ₁₆		1 ¹¹ / ₁₆	1.6925	¹ / ₄	45	SB1687-6	
1 ⁵ / ₁₆		1 ¹¹ / ₁₆	1.6925	⁵ / ₁₆	45	SB1687-11	
1 ⁵ / ₁₆		1 ¹¹ / ₁₆	1.6925	³ / ₈	45	SB1687-0	
1 ⁵ / ₁₆		1 ¹¹ / ₁₆	1.6930	⁷ / ₃₂	45	SB1687-9N	
1 ⁵ / ₁₆		1 ³ / ₄	1.7550	¹ / ₄	45	SB1750-6	
1 ⁵ / ₁₆		1 ³ / ₄	1.7550	⁵ / ₁₆	45	SB1750-17	
1 ⁵ / ₁₆		1 ³ / ₄	1.7550	³ / ₈	45	SB1750-24	
1 ⁵ / ₁₆		1 ³ / ₄	1.7550	⁷ / ₁₆	45	SB1750-25	
1 ⁵ / ₁₆		1 ¹⁹ / ₁₆	1.8175	⁵ / ₁₆	45	SB1812-24	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1 ⁵ / ₁₆		1 ¹³ / ₁₆	1.8175	³ / ₈	45	SB1812-25	
1.318T	1.358	1.687	1.6870	0.3150	20	SB1687E-5C	010,020
1.318T	1.358	1.697	1.6970	0.3150	20	SB1687E-5C+010	
1.318T	1.358	1.707	1.7070	0.3150	20	SB1687E-5C+020	
33.5mm		41.5mm	1.6338	8mm	45	SB1634E-2N	
1.320		1.558	1.5580	0.2170	45	SB1558E-1PM	
1.320		1 ⁵ / ₈	1.6320	0.3000	45	SB1625-62	
1.320		1 ⁵ / ₈	1.6320	0.3000	45	SB1625-62PM	
1.325T	1.530	1.856	1.8560	0.3100	30	SB1856E-2	
1.328T	1.397	1.584	1.5840	¹ / ₄	30	SB1584E-1	010
1.328T	1.397	1.594	1.5940	¹ / ₄	30	SB1584E-1+010	
1.329		1 ⁵ / ₈	1.6320	0.2800	45	SB1625-54	
1-21/64		1.624	1.6245	³ / ₈	45	SB1624E-1N	
1.333T	1.495	1 ⁵ / ₈	1.6320	0.2370	45	SB1625-55	
1.335		1.630	1.6300	0.3120	45	SB1630E-1	005,010,020
1.335		1.630	1.6300	0.3120	45	SB1630E-1N	
1.335T	1.387	1 ⁵ / ₈	1.6320	0.4200	45	SB1625-64N	
1.335T	1.387	1 ⁵ / ₈	1.6320	0.4200	45	SB1625-64	
1.335		1.635	1.6350	0.3120	45	SB1630E-1+005	
1.335		1.640	1.6400	0.3120	45	SB1630E-1+010	
1.335		1.650	1.6500	0.3120	45	SB1630E-1+020	
1.335T	1.387	1 ⁵ / ₈	1.6320	0.4200	45	SB1625-64PM	
34mm		44mm	1.7323	9.5mm	45	SB1732E-1N	
34mm		44mm	1.7323	9.5mm	45	SB1732E-1	
1.340T	1.412	1.577	1.5775	0.2200	30	SB1577E-1	010,020
1.340T	1.412	1.587	1.5875	0.2200	30	SB1577E-1+010	
1.340T	1.412	1.597	1.5975	0.2200	30	SB1577E-1+020	
1.340		1.600	1.6000	0.3000	45	SB1600E-1	020
1.340		1.620	1.6200	0.3000	45	SB1600E-1+020	
1.340T	1.426	1 ⁵ / ₈	1.6320	0.3070	45	SB1625-50	
1.340		1 ¹¹ / ₁₆	1.6945	0.3150	45	SB1687-55	
1.340R	1.442	1.618	1.6180	0.2800	20	SB1618E-2	
1.340R	1.470	1.776	1.7765	0.2975	25	SB1776E-1C	
1 ¹¹ / ₃₂		1 ⁹ / ₁₆	1.5670	⁷ / ₃₂	45	SB1562-3	
1 ¹¹ / ₃₂ T	1.380	1.628	1.6280	¹ / ₄	30	SB1628E-2	010,020,030
1 ¹¹ / ₃₂		1 ⁵ / ₈	1.6300	⁷ / ₃₂	45	SB1625-11	006
1 ¹¹ / ₃₂		1 ⁵ / ₈	1.6300	¹ / ₄	45	SB1625-5	
1 ¹¹ / ₃₂		1.636	1.6360	⁷ / ₃₂	45	SB1625-11+006	
1 ¹¹ / ₃₂ T	1.380	1.638	1.6380	¹ / ₄	30	SB1628E-2+010	
1 ¹¹ / ₃₂ T	1.380	1.648	1.6480	¹ / ₄	30	SB1628E-2+020	
1 ¹¹ / ₃₂ T	1.380	1.658	1.6580	¹ / ₄	30	SB1628E-2+030	
1 ¹¹ / ₃₂		1 ¹¹ / ₁₆	1.6925	⁷ / ₃₂	45	SB1687-27	
1 ¹¹ / ₃₂		1 ¹¹ / ₁₆	1.6925	⁵ / ₁₆	45	SB1687-4	
1 ¹¹ / ₃₂		1 ¹¹ / ₁₆	1.6935	⁵ / ₁₆	45	SB1687-4N	
1.345T	1.380	1 ⁵ / ₈	1.6320	0.2900	45	SB1625-63	
1.345T	1.482	1.705	1.7050	0.2420	30	SB1695E-1+010	
1.348T	1.406	1.626	1.6265	0.3650	45	SB1626E-1N	
1.348T	1.524	1.628	1.6285	0.3650	45	SB1628E-1N	010,013
1.348T	1.524	1.638	1.6385	0.3650	45	SB1628E-1N+010	
1.348T	1.524	1.641	1.6415	0.3650	45	SB1628E-1N+013	
1.348T	1.482	1.695	1.6955	0.2430	30	SB1695E-1	010
1.350R	1.453	1.696	1.6965	0.3055	36	SB1696E-4	
1.350R	1.452	1.696	1.6965	0.3190	45	SB1696E-3	
1.350T	1.435	1 ⁵ / ₈	1.6320	¹ / ₄	45	SB1625-67PM	
1.355T	1.415	1.717	1.7175	0.2400	30	SB1717E-1	
1.357		1.628	1.6285	0.2490	30	SB1628E-3SA	
1.357T	1.414	1.628	1.6285	0.2490	30	SB1628E-3	010,020,030
1.357T	1.414	1.628	1.6285	0.2700	30	SB1628E-3T	
1.357T	1.414	1.638	1.6385	0.2490	30	SB1628E-3+010	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1.357T	1.414	1.648	1.6485	0.2490	30	SB1628E-3+020	
1.357T	1.414	1.658	1.6585	0.2490	30	SB1628E-3+030	
1.357T	1.574	1.722	1.7220	0.2650	45	SB1722E-1	
34.5mm		45mm	1.7717	10mm	45	SB1772E-2	
34.5mm		45mm	1.7717	10mm	45	SB1772E-2N	
34.5mm		42.5mm	1.6732	8mm	45	SB1673E-1N	
1.360T	1.466	1.634	1.6340	0.3000	45	SB1634E-3	
1.360T	1.466	1.634	1.6340	0.3000	45	SB1634E-3PM	
1.360T	1.466	1.634	1.6340	0.3000	45	SB1634E-3N	
1.367		1.671	1.6710	0.3100	45	SB1671E-1N	
1.367		1.654	1.6544	0.3120	45	SB1654E-1N	
1.372T	1.429	1.669	1.6690	0.2720	37	SB1669E-1	
1 $\frac{3}{8}$		1 $\frac{9}{16}$	1.5670	$\frac{7}{32}$	45	SB1562-12	
1 $\frac{3}{8}$		1 $\frac{9}{16}$	1.5670	$\frac{1}{4}$	45	SB1562-5	
1 $\frac{3}{8}$		1 $\frac{5}{8}$	1.6300	$\frac{3}{16}$	45	SB1625-33	
1 $\frac{3}{8}$		1 $\frac{5}{8}$	1.6300	$\frac{7}{32}$	45	SB1625-1N	
1 $\frac{3}{8}$		1 $\frac{5}{8}$	1.6300	$\frac{7}{32}$	45	SB1625-1	005,010
1 $\frac{3}{8}$		1 $\frac{5}{8}$	1.6300	$\frac{7}{32}$	45	SB1625-1PM	
1 $\frac{3}{8}$		1 $\frac{5}{8}$	1.6300	$\frac{1}{4}$	45	SB1625-2	
1 $\frac{3}{8}$		1 $\frac{5}{8}$	1.6300	$\frac{1}{4}$	45	SB1625-2N	
1 $\frac{3}{8}$		1 $\frac{5}{8}$	1.6300	17/64	45	SB1625-15	
1 $\frac{3}{8}$		1 $\frac{5}{8}$	1.6300	$\frac{5}{16}$	45	SB1625-14	
1 $\frac{3}{8}$		1.635	1.6350	$\frac{7}{32}$	45	SB1625-1+005	
1 $\frac{3}{8}$		1.640	1.6395	$\frac{1}{4}$	45	SB1640E-1	
1 $\frac{3}{8}$		1.640	1.6400	$\frac{7}{32}$	45	SB1625-1+010	
1 $\frac{3}{8}$		1 $\frac{11}{16}$	1.6925	$\frac{9}{16}$	45	SB1687-29	
1 $\frac{3}{8}$		1 $\frac{11}{16}$	1.6925	$\frac{7}{32}$	45	SB1687-5	
1 $\frac{3}{8}$		1 $\frac{11}{16}$	1.6925	$\frac{1}{4}$	45	SB1687-7	005
1 $\frac{3}{8}$		1 $\frac{11}{16}$	1.6925	$\frac{9}{32}$	45	SB1687-18	
1 $\frac{3}{8}$		1 $\frac{11}{16}$	1.6925	$\frac{5}{16}$	45	SB1687-8	
1 $\frac{3}{8}$ T	1 $\frac{7}{16}$	1 $\frac{11}{16}$	1.6925	$\frac{5}{16}$	45	SB1687-10	
1 $\frac{3}{8}$ T	1 $\frac{7}{16}$	1 $\frac{11}{16}$	1.6925	$\frac{5}{16}$	45	SB1687-10N	
1 $\frac{3}{8}$		1 $\frac{11}{16}$	1.6925	$\frac{3}{8}$	45	SB1687-12	
1 $\frac{3}{8}$		1 $\frac{11}{16}$	1.6930	$\frac{7}{32}$	45	SB1687-5N	
1.375T	1.475	1 $\frac{11}{16}$	1.6945	0.2950	45	SB1687-56	
1 $\frac{3}{8}$		1.697	1.6975	$\frac{1}{4}$	45	SB1687-7+005	
1 $\frac{3}{8}$		1 $\frac{3}{4}$	1.7550	$\frac{7}{32}$	45	SB1750-7	
1 $\frac{3}{8}$		1 $\frac{3}{4}$	1.7550	$\frac{1}{4}$	45	SB1750-8	
1 $\frac{3}{8}$		1 $\frac{3}{4}$	1.7550	$\frac{5}{16}$	45	SB1750-9	
1 $\frac{3}{8}$		1 $\frac{3}{4}$	1.7550	$\frac{3}{8}$	45	SB1750-0	
1 $\frac{3}{8}$		1 $\frac{3}{4}$	1.7555	$\frac{1}{4}$	45	SB1750-8N	
1 $\frac{3}{8}$		1 $\frac{13}{16}$	1.8175	$\frac{7}{32}$	45	SB1812-13	
1 $\frac{3}{8}$		1 $\frac{13}{16}$	1.8175	$\frac{1}{4}$	45	SB1812-14	
1 $\frac{3}{8}$		1 $\frac{13}{16}$	1.8175	$\frac{5}{16}$	45	SB1812-15	
1 $\frac{3}{8}$		1 $\frac{13}{16}$	1.8175	$\frac{3}{8}$	45	SB1812-16	
1 $\frac{3}{8}$		1 $\frac{7}{8}$	1.8800	$\frac{1}{4}$	45	SB1875-5	
1 $\frac{3}{8}$		1 $\frac{7}{8}$	1.8800	$\frac{7}{16}$	45	SB1875-39	
1.380		1 $\frac{5}{8}$	1.6320	0.2570	45	SB1625-59	
1.382T	1.455	1.722	1.7220	0.2650	20	SB1722E-3	
1.390T	1.452	1 $\frac{11}{16}$	1.6945	0.3050	45	SB1687-51	
1.397T	1.469	1 $\frac{11}{16}$	1.6945	0.2750	45	SB1687-58	
35.5mm		46mm	1.8110	10mm	45	SB1811E-1	
35.5mm		46mm	1.8110	10mm	45	SB1811E-1N	
1.400		1.638	1.6380	0.2370	30	SB1638E-2T	
1.400		1.609	1.6090	$\frac{1}{4}$	30	SB1609E-1	
1.400		1.638	1.6380	0.2180	30	SB1638E-2	
1.400T	1.486	1.676	1.6760	0.2370	30	SB1676E-1	
1.405T	1.592	1 $\frac{13}{16}$	1.8195	0.3150	45	SB1812-54	
1 $\frac{13}{32}$		1 $\frac{5}{8}$	1.6300	$\frac{1}{4}$	45	SB1625-39	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1 ¹³ / ₃₂		1 ¹¹ / ₁₆	1.6925	¼	45	SB1687-1	010
1 ¹³ / ₃₂		1 ¹¹ / ₁₆	1.6930	¼	45	SB1687-1N	
1 ¹³ / ₃₂		1.702	1.7025	¼	45	SB1687-1+010	
1 ¹³ / ₃₂		1.880	1.8800	7/32	45	SB1880E-1	
1.410		1.656	1.6560	0.2180	30	SB1656E-3	
1.410		1.656	1.6560	0.2580	30	SB1656E-1	
1.410		1.687	1.6875	0.3650	20	SB1687E-4N	010,020
1.410		1.697	1.6975	0.3650	20	SB1687E-4N+010	
1.410		1.707	1.7075	0.3650	20	SB1687E-4N+020	
1.410T	1.600	1¾	1.7570	0.2800	45	SB1750-51	
1.412		1.638	1.6380	0.2180	45	SB1638E-1N	
1.415		1¾	1.7570	0.3160	45	SB1750-68	
1.415T	1.530	1.669	1.6690	0.2765	45	SB1669E-2N	
1.416T	1.525	1.711	1.7110	0.3780	45	SB1711E-1C	
1.417T	1.563	1.784	1.7845	0.2920	45	SB1784E-1N	
1.420		1.670	1.6700	0.3020	30	SB1670E-1	
1.420T	1.620	1 ¹³ / ₁₆	1.8195	0.3150	45	SB1812-53	
1.430		1.693	1.6925	0.2480	30	SB1692E-1N	005,015,030
1.430		1.698	1.6975	0.2480	30	SB1692E-1N+005	
1.430		1.708	1.7075	0.2480	30	SB1692E-1N+015	
1.430		1.723	1.7225	0.2480	30	SB1692E-1N+030	
1.430		1.812	1.8125	0.1860	30	SB1812E-9	005,010,020
1.430		1.817	1.8175	0.1860	30	SB1812E-9+005	
1.430		1.822	1.8225	0.1860	30	SB1812E-9+010	
1.430		1.832	1.8325	0.1860	30	SB1812E-9+020	
1.437		1.676	1.6756	0.2190	30	SB1676E-2	
1.437T	1.546	1.687	1.6870	0.3650	45	SB1687E-6C	
1.437T	1.555	1¾	1.7570	0.3020	45	SB1750-60	
36.5mm		47mm	1.8504	10mm	45	SB1850E-2	
36.5mm		47mm	1.8504	10mm	45	SB1850E-2N	
1 ⁷ / ₁₆		1¾	1.7550	7/32	45	SB1750-3	
1 ⁷ / ₁₆		1¾	1.7550	¼	45	SB1750-4	
1 ⁷ / ₁₆		1¾	1.7555	¼	45	SB1750-4N	
1 ⁷ / ₁₆		1 ¹³ / ₁₆	1.8175	¼	45	SB1812-7	
1 ⁷ / ₁₆		1 ⁵ / ₈	1.6300	3/16	45	SB1625-35	
1 ⁷ / ₁₆		1 ⁵ / ₈	1.6300	7/32	45	SB1625-17	
1 ⁷ / ₁₆		1 ⁵ / ₈	1.6300	¼	45	SB1625-36	
1 ⁷ / ₁₆ T	1.546	1.687	1.6870	0.3650	45	SB1687E-1N	See SB1693E-1N
1 ⁷ / ₁₆		1.691	1.6905	0.1810	30	SB1691E-1	010
1 ⁷ / ₁₆		1 ¹¹ / ₁₆	1.6920	7/32	45	SB1687-2PM	
1 ⁷ / ₁₆		1 ¹¹ / ₁₆	1.6925	5/32	45	SB1687-15	
1 ⁷ / ₁₆		1 ¹¹ / ₁₆	1.6925	3/16	45	SB1687-16	
1 ⁷ / ₁₆		1.693	1.6925	0.2000	30	SB1691E-2	010
1 ⁷ / ₁₆		1 ¹¹ / ₁₆	1.6925	7/32	45	SB1687-2	010
1 ⁷ / ₁₆		1 ¹¹ / ₁₆	1.6925	¼	45	SB1687-3N	
1 ⁷ / ₁₆		1 ¹¹ / ₁₆	1.6925	¼	45	SB1687-3	
1 ⁷ / ₁₆		1 ¹¹ / ₁₆	1.6925	5/16	45	SB1687-13	
1 ⁷ / ₁₆		1 ¹¹ / ₁₆	1.6925	3/8	45	SB1687-14	
1 ⁷ / ₁₆		1 ¹¹ / ₁₆	1.6930	7/32	45	SB1687-2N	
1 ⁷ / ₁₆ T	1.546	1.693	1.6930	0.3650	45	SB1693E-1N	010,020,030
1 ⁷ / ₁₆ T	1.546	1.693	1.6930	3/8	45	SB1693E-2	020,030
1 ⁷ / ₁₆		1.701	1.7005	0.1810	30	SB1691E-1+010	
1 ⁷ / ₁₆		1.701	1.7025	0.2000	30	SB1691E-2+010	
1 ⁷ / ₁₆		1.702	1.7025	7/32	45	SB1687-2+010	
1 ⁷ / ₁₆ T	1.546	1.703	1.7030	0.3650	45	SB1693E-1N+010	
1 ⁷ / ₁₆ T	1.546	1.713	1.7130	0.3650	45	SB1693E-1N+020	
1 ⁷ / ₁₆ T	1.546	1.713	1.7130	3/8	45	SB1693E-2+020	
1 ⁷ / ₁₆ T	1.546	1.723	1.7230	0.3650	45	SB1693E-1N+030	
1 ⁷ / ₁₆ T	1.546	1.723	1.7230	3/8	45	SB1693E-2+030	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
17/16		1¾	1.7550	¾	45	SB1750-11	
1.438T	1.610	1¾	1.7550	0.2030	45	SB1750-12	
17/16		1¾	1.7550	7/32	45	SB1750-3N	
17/16		1¾	1.7550	5/16	45	SB1750-5	
17/16		1¾	1.7550	¾	45	SB1750-32	
17/16		1¾	1.7550	7/16	45	SB1750-33	
17/16		1 ¹³ / ₁₆	1.8175	7/32	45	SB1812-17	
17/16		1 ¹³ / ₁₆	1.8175	5/16	45	SB1812-11	
17/16		1 ¹³ / ₁₆	1.8175	¾	45	SB1812-0	
17/16		1.828	1.8280	¾	45	SB1828E-1	
17/16		1 ⁷ / ₈	1.8800	¼	45	SB1875-12	
17/16		1 ⁷ / ₈	1.8800	5/16	45	SB1875-32	
17/16		1 ⁷ / ₈	1.8800	¾	45	SB1875-33	
17/16		1 ¹⁵ / ₁₆	1.9425	7/16	45	SB1937-39	
17/16		2.000	2.0055	¼	45	SB2000-8	
1.440T	1.490	1 ¹³ / ₁₆	1.8195	0.3150	45	SB1812-52	
1.445		1.744	1.7445	0.3120	45	SB1744E-1N	
1.445T	1.617	1¾	1.7570	0.3100	45	SB1750-61	
1.445T	1.618	1.756	1.7565	0.2170	20	SB1756E-1	
1.445T	1.697	1.756	1.7565	0.2370	45	SB1756E-2C	
1.446		1.678	1.6785	0.3120	45	SB1678E-1	
1.450		1 ¹¹ / ₁₆	1.6945	0.2970	45	SB1687-54	
1.450		1.812	1.8120	0.1860	30	SB1812E-4	005,010,020,030
1.450		1.817	1.8170	0.1860	30	SB1812E-4+005	
1.450		1.822	1.8220	0.1860	30	SB1812E-4+010	
1.450		1.832	1.8320	0.1860	30	SB1812E-4+020	
1.450		1.842	1.8420	0.1860	30	SB1812E-4+030	
1.450R	1.573	1.775	1.7755	0.3330	30	SB1775E-4	
1.450T	1.542	1.697	1.6975	0.2760	45	SB1697E-1	
1.450T	1.555	1.775	1.7755	0.3330	45	SB1775E-3	
1.454T	1.778	1.933	1.9330	0.2410	30	SB1933E-2	
1.455T	1.597	1.733	1.7330	0.3650	45	SB1733E-2N	
1.455T	1.595	1¾	1.7570	0.3070	45	SB1750-52	
1.458		1.693	1.6935	0.2340	45	SB1693E-8N	005
1.458		1.698	1.6985	0.2340	45	SB1693E-8N+005	
1.458T	1.680	1.775	1.7750	0.3000	45	SB1775E-1	
1.460		1.725	1.7255	0.2510	30	SB1725E-2N	
1.468		1¾	1.7570	0.2760	45	SB1750-65	
1 ¹⁵ / ₃₂		1 ¹³ / ₁₆	1.8175	5/16	45	SB1812-21N	
1.470T	1.562	1.835	1.8355	0.2400	20	SB1835E-2	
1.476		1.781	1.7810	0.3110	45	SB1781E-1N	
37.5mm		48mm	1.8898	10mm	45	SB1890E-2	
37.5mm		48mm	1.8898	10mm	45	SB1890E-2N	
1.490T	1.623	1.782	1.7825	0.3400	30	SB1782E-1	015
1.490T	1.623	1.797	1.7975	0.3400	30	SB1782E-1+015	
1.490T	1.588	1 ¹³ / ₁₆	1.8195	0.3070	45	SB1812-50	
1.490R	1.631	1.835	1.8345	0.2950	45	SB1835E-1	
1.495T	1.556	1.853	1.8535	0.2710	20	SB1853E-2	
1.498T	1.700	1.853	1.8530	0.2730	30	SB1853E-1	
1½		1 ¹¹ / ₁₆	1.6925	¾	45	SB1687-32	
1½		1 ¹¹ / ₁₆	1.6925	7/32	45	SB1687-17	
1½		1 ¹¹ / ₁₆	1.6925	¼	45	SB1687-33	
1½		1 ¹¹ / ₁₆	1.6925	¾	45	SB1687-35	
1½		1¾	1.7550	5/16	45	SB1750-34	
1½		1¾	1.7550	7/32	45	SB1750-2N	
1½		1¾	1.7550	7/32	45	SB1750-2	010
1½		1¾	1.7550	7/32	45	SB1750-2PM	
1½		1¾	1.7550	¼	45	SB1750-1	010
1½		1¾	1.7550	5/16	45	SB1750-13	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1½		1¾	1.7550	¾	45	SB1750-36	
1½		1¾	1.7555	¼	45	SB1750-1N	
1½		1.765	1.7650	7/32	45	SB1750-2+010	
1½		1.765	1.7650	¼	45	SB1750-1+010	
1½		1 ¹³ / ₁₆	1.8175	3/16	45	SB1812-34	
1½		1 ¹³ / ₁₆	1.8175	7/32	45	SB1812-2	
1½T	1 ⁹ / ₁₆	1 ¹³ / ₁₆	1.8175	7/32	45	SB1812-8	
1½T	1 ⁵ / ₈	1 ¹³ / ₁₆	1.8175	7/32	45	SB1812-3	
1½		1 ¹³ / ₁₆	1.8175	¼	45	SB1812-5	
1½		1 ¹³ / ₁₆	1.8175	5/16	45	SB1812-9	
1½		1 ¹³ / ₁₆	1.8175	3/8	45	SB1812-18	
1½		1 ¹³ / ₁₆	1.8175	7/16	45	SB1812-20	
1½		1 ¹³ / ₁₆	1.8180	¼	45	SB1812-5N	
1½		1 ¹³ / ₁₆	1.8180	5/16	45	SB1812-9N	
1½T	1.555	1 ¹³ / ₁₆	1.8195	0.2780	45	SB1812-55	
1½		1 ⁷ / ₈	1.8800	7/32	45	SB1875-13	
1½T	1 ⁵ / ₈	1 ⁷ / ₈	1.8800	7/32	45	SB1875-8	
1½		1 ⁷ / ₈	1.8800	¼	45	SB1875-9	
1½		1 ⁷ / ₈	1.8800	5/16	45	SB1875-14	
1½		1 ⁷ / ₈	1.8800	3/8	45	SB1875-0	
1½		1 ⁷ / ₈	1.8800	7/16	45	SB1875-21	
1½		1 ¹⁵ / ₁₆	1.9430	¼	45	SB1937-9	
1½		1 ¹⁵ / ₁₆	1.9430	3/8	45	SB1937-10	
1½		2.000	2.0055	3/8	45	SB2000-9	
1½		2.000	2.0055	7/16	45	SB2000-24	
1.505T	1.630	1 ⁷ / ₈	1.8820	0.2800	45	SB1875-57	
1.505T	1.689	1 ⁷ / ₈	1.8820	0.3800	45	SB1875-53	
1.510T	1.585	1.832	1.8320	0.2410	30	SB1832E-1	
1.510T	1.642	1.951	1.9515	0.2900	30	SB1951E-1	010
1.510T	1.642	1.961	1.9615	0.2900	20	SB1951E-1+010	
1.515T	1.631	1.940	1.9405	0.3010	30	SB1940E-2	
1.515T	1.558	1.835	1.8350	0.1880	20	SB1835E-3C	
1.515T	1.558	1.835	1.8350	0.1880	20	SB1835E-4	
1.515T	1.645	1.853	1.8535	0.3080	45	SB1853E-3	
38.5mm		49mm	1.9291	10mm	45	SB1929E-1	
38.5mm		49mm	1.9291	10mm	45	SB1929E-1N	
1.520		1.812	1.8120	0.2240	30	SB1812E-4T	
1.525R	1.603	1.874	1.8740	0.2950	30	SB1874E-3	
1.525R	1.603	1.874	1.8740	0.2950	30	SB1874E-4N	
1.530T	1.580	1.812	1.8125	0.3650	30	SB1812E-8	
1.530T	1.670	1 ¹³ / ₁₆	1.8195	0.3070	45	SB1812-51	
1 ¹⁷ / ₃₂ T	1.600	1.898	1.8985	0.2750	30	SB1899E-1	
1.535		1.792	1.7925	0.2570	30	SB1792E-1	
1.535		1.812	1.8120	0.3650	30	SB1812E-7	
1.535		1 ¹³ / ₁₆	1.8195	0.2930	45	SB1812-56	
39mm		50mm	1.9685	10.5mm	45	SB1969E-2N	
39mm		50mm	1.9685	10.5mm	45	SB1969E-2	
1.535T	1.595	1.782	1.7820	0.2450	45	SB1782E-2	
1.540T	1.610	1.812	1.8120	0.3650	30	SB1812E-3	See SB1817E-3
1.540		1.812	1.8125	0.3650	20	SB1812E-6N	010,020
1.540		1.813	1.8130	0.3150	20	SB1813E-1	010,020
1.540T	1.610	1.817	1.8170	0.3650	30	SB1817E-3	010,020,030,040
1.540		1.822	1.8225	0.3650	20	SB1812E-6N+010	
1.540		1.823	1.8230	0.3150	20	SB1813E-1+010	
1.540T	1.610	1.827	1.8270	0.3650	30	SB1817E-3+010	
1.540		1.832	1.8325	0.3650	20	SB1812E-6N+020	
1.540		1.833	1.8330	0.3150	20	SB1813E-1+020	
1.540T	1.610	1.837	1.8370	0.3650	30	SB1817E-3+020	
1.540T	1.610	1.847	1.8470	0.3650	30	SB1817E-3+030	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1.540T	1.610	1.857	1.8570	0.3650	30	SB1817E-3+040	
1.540T	1.718	1 ¹⁵ / ₁₆	1.9420	0.3150	45	SB1937-51	
1.548T	1.650	1.811	1.8110	0.3340	45	SB1811E-2N	015
1.548T	1.650	1.811	1.8110	0.3340	45	SB1811E-3	
1.548T	1.650	1.826	1.8260	0.3340	45	SB1811E-2N+015	
1.550		1.831	1.8315	0.2530	20	SB1831E-2	005,015,030
1.550		1.836	1.8365	0.2530	20	SB1831E-2+005	
1.550		1.846	1.8465	0.2530	20	SB1831E-2+015	
1.550		1.861	1.8615	0.2530	20	SB1831E-2+030	
1.550		1.814	1.8140	0.2400	45	SB1814E-4C	
1.550T		1.857	1.8570	0.2570	30	SB1856E-1	010
1.550T		1.867	1.8670	0.2570	30	SB1856E-1+010	
1.555		1.831	1.8315	0.2800	30	SB1831E-1	005,015,030
1.555		1.836	1.8365	0.2800	30	SB1831E-1+005	
1.555		1.846	1.8465	0.2800	30	SB1831E-1+015	
1.555		1.861	1.8615	0.2800	30	SB1831E-1+030	
1.555R	1.650	1.932	1.9325	0.3075	45	SB1932E-1	
1.556T	1.726	1.874	1.8745	0.2380	45	SB1874E-2	010
1.556T	1.726	1.884	1.8845	0.2380	45	SB1874E-2+010	
1.560		1.841	1.8415	0.2510	20	SB1841E-1	
1.560T	1.569	1.823	1.8230	0.2730	30	SB1823E-1	
1 ⁹ / ₁₆		1 ¹⁵ / ₁₆	1.9425	5 ¹ / ₁₆	45	SB1937-3	
1 ⁹ / ₁₆		1 ¹³ / ₁₆	1.8175	3 ¹ / ₁₆	45	SB1812-36	
1.562		1.934	1.9340	0.3100	20	SB1934E-1	
1 ⁹ / ₁₆		1 ³ / ₄	1.7550	7 ¹ / ₃₂	45	SB1750-38	
1 ⁹ / ₁₆		1 ³ / ₄	1.7550	1 ¹ / ₄	45	SB1750-39	
1 ⁹ / ₁₆ T	1.662	1.812	1.8120	0.3650	45	SB1812E-1	See SB1818E-1
1 ⁹ / ₁₆		1 ¹³ / ₁₆	1.8175	7 ¹ / ₃₂	45	SB1812-4N	
1 ⁹ / ₁₆		1 ¹³ / ₁₆	1.8175	7 ¹ / ₃₂	45	SB1812-4	
1 ⁹ / ₁₆		1 ¹³ / ₁₆	1.8175	1 ¹ / ₄	45	SB1812-1N	
1 ⁹ / ₁₆		1 ¹³ / ₁₆	1.8175	1 ¹ / ₄	45	SB1812-1	
1 ⁹ / ₁₆		1 ¹³ / ₁₆	1.8175	5 ¹ / ₁₆	45	SB1812-10	
1 ⁹ / ₁₆		1 ¹³ / ₁₆	1.8175	3 ¹ / ₈	45	SB1812-19	
1 ⁹ / ₁₆		1 ¹³ / ₁₆	1.8180	7 ¹ / ₃₂	45	SB1812-4PM	
1 ⁹ / ₁₆ T	1.662	1.818	1.8180	0.3650	45	SB1818E-1	
1 ⁹ / ₁₆ T	1.662	1.818	1.8180	3 ¹ / ₈	45	SB1818E-2	020
1 ⁹ / ₁₆ T	1.662	1.838	1.8380	3 ¹ / ₈	45	SB1818E-2+020	
1 ⁹ / ₁₆		1.846	1.8465	9 ¹ / ₃₂	30	SB1847E-1	
1 ⁹ / ₁₆		1 ⁷ / ₈	1.8800	7 ¹ / ₃₂	45	SB1875-19	
1 ⁹ / ₁₆		1 ⁷ / ₈	1.8800	1 ¹ / ₄	45	SB1875-2	
1 ⁹ / ₁₆		1 ⁷ / ₈	1.8800	5 ¹ / ₁₆	45	SB1875-11	
1 ⁹ / ₁₆		1 ⁷ / ₈	1.8800	3 ¹ / ₈	45	SB1875-16	
1 ⁹ / ₁₆ T	1.625	1.880	1.8800	7 ¹ / ₁₆	30	SB1880E-2	020
1 ⁹ / ₁₆ T	1.625	1.900	1.9000	7 ¹ / ₁₆	30	SB1880E-2+020	
1 ⁹ / ₁₆		1 ¹⁵ / ₁₆	1.9425	1 ¹ / ₄	45	SB1937-4	
1 ⁹ / ₁₆		1 ¹⁵ / ₁₆	1.9430	7 ¹ / ₃₂	45	SB1937-27	
1 ⁹ / ₁₆		1 ¹⁵ / ₁₆	1.9430	1 ¹ / ₄	45	SB1937-4N	
1 ⁹ / ₁₆		1 ¹⁵ / ₁₆	1.9430	3 ¹ / ₈	45	SB1937-0	
1.563T	1.755	1.957	1.9570	0.3130	30	SB1957ST	
1 ⁹ / ₁₆		2.000	2.0055	7 ¹ / ₃₂	45	SB2000-33	
1 ⁹ / ₁₆		2.000	2.0055	1 ¹ / ₄	45	SB2000-10	
1 ⁹ / ₁₆		2.000	2.0055	5 ¹ / ₁₆	45	SB2000-11	
1 ⁹ / ₁₆		2.000	2.0055	3 ¹ / ₈	45	SB2000-34	
1 ⁹ / ₁₆		2 ¹ / ₁₆	2.0680	1 ¹ / ₄	45	SB2062-6	
1 ⁹ / ₁₆		2 ¹ / ₁₆	2.0680	5 ¹ / ₁₆	45	SB2062-19	
1 ⁹ / ₁₆		2 ¹ / ₁₆	2.0680	3 ¹ / ₈	45	SB2062-13	
1 ⁹ / ₁₆		2 ¹ / ₁₆	2.0680	7 ¹ / ₁₆	45	SB2062-20	
1 ⁹ / ₁₆		2 ¹ / ₈	2.1305	3 ¹ / ₈	45	SB2125-21	
1.570T	1.660	1.894	1.8945	0.2920	30	SB1894E-1	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1.570		1.815	1.8150	0.2610	30	SB1815E-2	
1.571		1.803	1.8035	0.3120	45	SB1803E-1	
1.571		1.819	1.8195	0.2830	30	SB1819E-1	005,010,020
1.571		1.824	1.8245	0.2830	30	SB1819E-1+005	
1.571		1.829	1.8295	0.2830	30	SB1819E-1+010	
1.571		1.839	1.8395	0.2830	30	SB1819E-1+020	
1.573T	1.617	1.857	1.8570	0.2290	20	SB1857E-2	
1.573T	1.620	1 ¹⁵ / ₁₆	1.9445	0.3790	45	SB1937-52	
1.574		1.946	1.9465	0.3150	45	SB1946E-1N	
1.575T	1.660	1.857	1.8570	0.2290	45	SB1857E-1	
1.575T	1.660	1.857	1.8570	0.2500	45	SB1857E-1T	
1.575T	1.672	1 ⁷ / ₈	1.8820	0.2900	45	SB1875-54	
1.575T	1.692	1 ⁷ / ₈	1.8820	0.3170	45	SB1875-51	
40mm		51mm	2.0079	10.5mm	45	SB2008E-2	
40mm		51mm	2.0079	10.5mm	45	SB2008E-2N	
1.578T	1.720	1 ¹⁵ / ₁₆	1.9430	0.2030	30	SB1937-12	
1.580T	1.643	1.894	1.8940	0.2410	30	SB1894E-4	
1.589		2.020	2.0200	0.2825	45	SB2020E-1	
1 ¹⁹ / ₃₂		1 ⁷ / ₈	1.8800	1/4	45	SB1875-7	
1.595		1.815	1.8150	1/4	45	SB1815E-1	
1.595		1.882	1.8820	0.3190	30	SB1882E-1C	
1.600		1.814	1.8140	0.3150	45	SB1814E-1	
1.600T	1.673	1 ⁷ / ₈	1.8820	0.2520	45	SB1875-56N	
1.600T	1.673	1 ⁷ / ₈	1.8820	0.2520	45	SB1875-56	
1.600		2.000	2.0055	9/32	45	SB2000-25	
1.608		1.858	1.8580	0.2090	30	SB1858E-1N	
41mm		52mm	2.0472	10.5mm	45	SB2047E-1N	
41mm		52mm	2.0476	10.5mm	45	SB2047E-1	
1.609T	1.705	1.854	1.8545	0.2775	45	SB1854E-2	
1 ⁵ / ₈		1 ⁷ / ₈	1.8810	1/4	45	SB1875-1	
1.610T	1.680	1.854	1.8545	0.2770	45	SB1854E-1	
1 ⁵ / ₈		1 ⁷ / ₈	1.8815	1/4	45	SB1875-1N	
1.615T	1.655	1.891	1.8910	0.3060	30	SB1891E-2	
1.615T	1.637	1.891	1.8910	0.3060	30	SB1891E-1	010,020,030
1.615T	1.637	1.901	1.9010	0.3060	30	SB1891E-1+010	
1.615T	1.637	1.911	1.9110	0.3060	30	SB1891E-1+020	
1.615T	1.637	1.921	1.9210	0.3060	30	SB1891E-1+030	
1.616T	1.672	1.991	1.9910	0.3090	45	SB1991E-1N	
1 ⁵ / ₈		1 ¹³ / ₁₆	1.8175	7/32	45	SB1812-12	
1 ⁵ / ₈		1 ¹³ / ₁₆	1.8175	1/4	45	SB1812-38	
1 ⁵ / ₈		1 ⁷ / ₈	1.8800	3/16	45	SB1875-38	
1 ⁵ / ₈		1 ⁷ / ₈	1.8800	7/32	45	SB1875-6	
1 ⁵ / ₈		1 ⁷ / ₈	1.8800	9/32	45	SB1875-4	
1 ⁵ / ₈		1 ⁷ / ₈	1.8800	5/16	45	SB1875-17	
1 ⁵ / ₈		1 ⁷ / ₈	1.8800	3/8	45	SB1875-18	
1 ⁵ / ₈		1.912	1.9120	9/32	45	SB1912E-1	020
1 ⁵ / ₈		1.932	1.9320	9/32	45	SB1912E-1+020	
1 ⁵ / ₈		1 ¹⁵ / ₁₆	1.9425	1/4	45	SB1937-2	
1 ⁵ / ₈		1 ¹⁵ / ₁₆	1.9425	5/16	45	SB1937-7	
1 ⁵ / ₈		1 ¹⁵ / ₁₆	1.9430	7/32	45	SB1937-6	
1 ⁵ / ₈		1 ¹⁵ / ₁₆	1.9430	9/32	45	SB1937-5	
1 ⁵ / ₈		1 ¹⁵ / ₁₆	1.9430	3/8	45	SB1937-8	
1.625		2.003	2.0030	0.2795	45	SB2003E-6N	005,010
1 ⁵ / ₈		2.000	2.0055	7/32	45	SB2000-12	
1 ⁵ / ₈		2.000	2.0055	1/4	45	SB2000-13N	
1 ⁵ / ₈		2.000	2.0055	1/4	45	SB2000-13	
1 ⁵ / ₈		2.000	2.0055	9/32	45	SB2000-6	
1 ⁵ / ₈		2.000	2.0055	19/64	45	SB2000-3	
1 ⁵ / ₈		2.000	2.0055	19/64	45	SB2000-3C	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1 $\frac{5}{8}$		2.000	2.0055	$\frac{5}{16}$	45	SB2000-14	
1 $\frac{5}{8}$		2.000	2.0055	$\frac{3}{8}$	45	SB2000-0	
1 $\frac{5}{8}$		2.000	2.0055	$\frac{7}{16}$	45	SB2000-27	
1 $\frac{5}{8}$		2.000	2.0060	19/64	45	SB2000-3N	
1.625T	1.800	2.000	2.0070	0.3680	45	SB2000-50	
1.625		2.008	2.0080	0.2795	45	SB2003E-6N+005	
1.625		2.013	2.0130	0.2795	45	SB2003E-6N+010	
1 $\frac{5}{8}$		2 $\frac{1}{16}$	2.0670	$\frac{7}{16}$	45	SB2062-9	
1 $\frac{5}{8}$		2 $\frac{1}{16}$	2.0680	$\frac{1}{4}$	45	SB2062-11	
1 $\frac{5}{8}$		2 $\frac{1}{16}$	2.0680	$\frac{5}{16}$	45	SB2062-21	
1 $\frac{5}{8}$		2 $\frac{1}{16}$	2.0680	$\frac{3}{8}$	45	SB2062-15	
1 $\frac{5}{8}$		2 $\frac{1}{8}$	2.1305	$\frac{9}{32}$	45	SB2125-6	
1 $\frac{5}{8}$		2 $\frac{1}{8}$	2.1305	$\frac{3}{8}$	45	SB2125-26	
1 $\frac{5}{8}$		2 $\frac{1}{4}$	2.2555	$\frac{5}{16}$	45	SB2250-21	
1 $\frac{5}{8}$		2 $\frac{1}{4}$	2.2555	$\frac{3}{8}$	45	SB2250-16	
1.630		2.006	2.0060	0.2800	45	SB2006E-6C	
1.640T	1.819	1.953	1.9535	0.1950	20	SB1953E-4	005,010
1.640T	1.819	1.958	1.9585	0.1950	20	SB1953E-4+005	
1.640T	1.819	1.963	1.9635	0.1950	20	SB1953E-4+010	
1.640		1 $\frac{7}{8}$	1.8820	0.2800	45	SB1875-50	
1.640T	1.730	1 $\frac{5}{16}$	1.9445	0.2900	45	SB1937-55	
1.640T	1.828	1.953	1.9535	0.1950	20	SB1953E-3	005
1.640T	1.670	1.953	1.9535	0.2150	45	SB1953E-2C	
1.640T	1.828	1.958	1.9585	0.1950	20	SB1953E-3+005	
1.640T	1.819	1.953	1.9535	0.1950	20	SB1953E-4C	
1.645		1.900	1.9000	0.2500	45	SB1900E-2	020
1.645		1.920	1.9200	0.2500	45	SB1900E-2+020	
1.650		1.900	1.9000	0.2200	30	SB1900E-3	
1.650		1.900	1.9000	0.3000	45	SB1900E-1	
1.650T	1.749	2.051	2.0510	0.3000	24.5	SB2051E-6	
1.652		2.136	2.1360	0.3100	37	SB2136E-3PM	
42mm		53mm	2.0866	10.5mm	45	SB2087E-2N	
42mm		53mm	2.0866	10.5mm	45	SB2087E-2	
1.658T	1.875	1.973	1.9730	0.3000	45	SB1973E-1	
1.665		1.919	1.9195	0.2500	45	SB1919E-1N	
1.685T	1.735	2.004	2.0040	0.3170	30	SB2004E-3N	005,010,020
1.685T	1.735	2.009	2.0090	0.3170	30	SB2004E-3N+005	
1.685T	1.735	2.014	2.0140	0.3170	30	SB2004E-3N+010	
1.685T	1.735	2.024	2.0240	0.3170	30	SB2004E-3N+020	
1 $\frac{11}{16}$		1 $\frac{5}{16}$	1.9425	$\frac{7}{32}$	45	SB1937-17	
1 $\frac{11}{16}$		1 $\frac{5}{16}$	1.9425	$\frac{1}{4}$	45	SB1937-1	
1 $\frac{11}{16}$		1 $\frac{7}{8}$	1.8800	$\frac{7}{32}$	45	SB1875-20	
1 $\frac{11}{16}$		1 $\frac{7}{8}$	1.8810	$\frac{1}{4}$	45	SB1875-35	
1 $\frac{11}{16}$		1 $\frac{5}{16}$	1.9430	$\frac{3}{16}$	45	SB1937-23	
1 $\frac{11}{16}$		1 $\frac{5}{16}$	1.9430	$\frac{9}{32}$	45	SB1937-15	
1 $\frac{11}{16}$		1 $\frac{5}{16}$	1.9430	$\frac{5}{16}$	45	SB1937-30	
1 $\frac{11}{16}$		2.003	2.0030	0.2340	30	SB2003E-3N	See SB2006E-3N
1 $\frac{11}{16}$		2.003	2.0030	$\frac{9}{32}$	30	SB2003E-1N	See SB2006E-1N
1 $\frac{11}{16}$		2.003	2.0030	$\frac{9}{32}$	30	SB2003E-1	See SB2006E-1
1 $\frac{11}{16}$ T	1.748	2.003	2.0035	$\frac{7}{16}$	30	SB2004E-2	See SB2006E-2
1.688		2.004	2.0040	0.4380	30	SB2004E-4N	
1 $\frac{11}{16}$		2.000	2.0055	$\frac{7}{32}$	45	SB2000-15	
1 $\frac{11}{16}$		2.000	2.0055	$\frac{1}{4}$	45	SB2000-16	
1 $\frac{11}{16}$		2.000	2.0055	$\frac{9}{32}$	45	SB2000-2	
1 $\frac{11}{16}$		2.000	2.0055	$\frac{5}{16}$	45	SB2000-29	
1 $\frac{11}{16}$		2.000	2.0055	$\frac{3}{8}$	45	SB2000-4	
1 $\frac{11}{16}$ T	1.748	2.006	2.0055	$\frac{7}{16}$	30	SB2006E-2	010,020,030
1 $\frac{11}{16}$		2.006	2.0060	0.2340	30	SB2006E-3N	
1 $\frac{11}{16}$ T	1.748	2.016	2.0155	$\frac{7}{16}$	30	SB2006E-2+010	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1 ¹¹ / ₁₆ T	1.748	2.026	2.0255	7 ¹ / ₁₆	30	SB2006E-2+020	
1 ¹¹ / ₁₆ T	1.748	2.036	2.0355	7 ¹ / ₁₆	30	SB2006E-2+030	
1 ¹¹ / ₁₆		2 ¹ / ₁₆	2.0680	7 ³ / ₃₂	45	SB2062-22	
1 ¹¹ / ₁₆		2 ¹ / ₁₆	2.0680	1 ¹ / ₄	45	SB2062-4	
1 ¹¹ / ₁₆		2 ¹ / ₁₆	2.0680	9 ³ / ₃₂	45	SB2062-8	
1 ¹¹ / ₁₆		2 ¹ / ₁₆	2.0680	5 ¹ / ₁₆	45	SB2062-5	
1 ¹¹ / ₁₆		2 ¹ / ₁₆	2.0680	3 ³ / ₈	45	SB2062-23	
1 ¹¹ / ₁₆		2 ¹ / ₁₆	2.0680	7 ¹ / ₁₆	45	SB2062-24	
1 ¹¹ / ₁₆		2 ¹ / ₈	2.1305	1 ¹ / ₄	45	SB2125-16	
1 ¹¹ / ₁₆		2 ¹ / ₈	2.1305	5 ¹ / ₁₆	30	SB2125-15	
1 ¹¹ / ₁₆		2 ³ / ₁₆	2.1930	7 ¹ / ₁₆	45	SB2187-31	
1.690		2.006	2.0060	0.2140	30	SB2006E-5	010,020,030
1.690		2.006	2.0060	0.2150	30	SB2006E-7C	
1 ¹¹ / ₁₆		2.006	2.0060	9 ³ / ₃₂	30	SB2006E-1N	005,010,020
1 ¹¹ / ₁₆		2.006	2.0060	9 ³ / ₃₂	30	SB2006E-1	005,010,020,030
1.690T	1.765	2.000	2.0070	0.2700	45	SB2000-51PM	
1.690T	1.765	2.000	2.0070	0.2700	45	SB2000-51	
1 ¹¹ / ₁₆		2.011	2.0110	9 ³ / ₃₂	30	SB2006E-1N+005	
1 ¹¹ / ₁₆		2.011	2.0110	9 ³ / ₃₂	30	SB2006E-1+005	
1.690		2.016	2.0160	0.2140	30	SB2006E-5+010	
1 ¹¹ / ₁₆		2.016	2.0160	9 ³ / ₃₂	30	SB2006E-1N+010	
1 ¹¹ / ₁₆		2.016	2.0160	9 ³ / ₃₂	30	SB2006E-1+010	
1.690		2.026	2.0260	0.2140	30	SB2006E-5+020	
1 ¹¹ / ₁₆		2.026	2.0260	9 ³ / ₃₂	30	SB2006E-1N+020	
1 ¹¹ / ₁₆		2.026	2.0260	9 ³ / ₃₂	30	SB2006E-1+020	
1.690		2.036	2.0360	0.2140	30	SB2006E-5+030	
1 ¹¹ / ₁₆		2.036	2.0360	9 ³ / ₃₂	30	SB2006E-1+030	
1.692		2.088	2.0880	0.2990	30	SB2088E-1	015,030
1.692		2.103	2.1030	0.2990	30	SB2088E-1+015	
1.692		2.118	2.1180	0.2990	30	SB2088E-1+030	
43mm		54mm	2.1260	10.5mm	45	SB2126E-1	
43mm		54mm	2.1260	10.5mm	45	SB2126E-1N	
1.704		1.969	1.9690	0.2340	30	SB1969E-3	
1.705		2.136	2.1360	0.2950	30	SB2136E-2PM	
1.705T	1.785	2.136	2.1360	0.3190	45	SB2136E-1N	020
1.705T	1.785	2.156	2.1560	0.3190	45	SB2136E-1N+020	
1.712T	1.870	2.001	2.0010	0.3560	30	SB2001E-2	
1.712T	1.870	2.001	2.0015	0.3860	30	SB2001E-1	010,013
1.712T	1.870	2.011	2.0110	0.3850	30	SB2001E-1+010	
1.712T	1.870	2.014	2.0145	0.3850	30	SB2001E-1+013	
1.712T	1.767	1.999	1.9995	0.3860	30	SB1999E-1	
1.726T	1.656	1.969	1.9690	0.2480	30	SB1969E-4N	
44mm		55mm	2.1654	11mm	45	SB2165E-1	
44mm		55mm	2.1654	11mm	45	SB2165E-1N	
1.744T	1.792	2.051	2.0510	0.2410	30	SB2051E-5	
1.744T	1.957	2.051	2.0510	0.2410	30	SB2051E-4	
1 ³ / ₄		2 ¹ / ₁₆	2.0695	0.2800	45	SB2062-52	
1.750T	1.810	2 ¹ / ₁₆	2.0695	0.3900	45	SB2062-51N	
1.750		2 ¹ / ₁₆	2.0695	0.4200	45	SB2062-50N	
1.750		2 ¹ / ₁₆	2.0695	0.4200	45	SB2062-50	
1 ³ / ₄		1 ¹⁵ / ₁₆	1.9430	7 ³ / ₃₂	45	SB1937-19	
1 ³ / ₄		2.000	2.0055	3 ¹ / ₁₆	45	SB2000-36	
1 ³ / ₄		2.000	2.0055	7 ³ / ₃₂	45	SB2000-1	
1 ³ / ₄		2.000	2.0055	7 ³ / ₃₂	45	SB2000-1N	
1 ³ / ₄		2.000	2.0055	1 ¹ / ₄	45	SB2000-17	
1 ³ / ₄		2.000	2.0055	5 ¹ / ₁₆	45	SB2000-18	
1 ³ / ₄		2 ¹ / ₁₆	2.0680	7 ³ / ₃₂	45	SB2062-25	
1 ³ / ₄		2 ¹ / ₁₆	2.0680	9 ³ / ₃₂	45	SB2062-2	
1 ³ / ₄		2 ¹ / ₁₆	2.0680	5 ¹ / ₁₆	45	SB2062-27	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1 $\frac{3}{4}$		2 $\frac{1}{16}$	2.0680	1 $\frac{1}{32}$	45	SB2062-28	
1 $\frac{3}{4}$		2 $\frac{1}{16}$	2.0695	0.2800	45	SB2062-52PM	
1.750T	1.810	2 $\frac{1}{16}$	2.0695	0.3900	45	SB2062-51PM	
1.750T	1.810	2 $\frac{1}{16}$	2.0695	0.3900	45	SB2062-51	
1 $\frac{3}{4}$		2 $\frac{1}{8}$	2.1305	7 $\frac{1}{32}$	45	SB2125-11	
1 $\frac{3}{4}$		2 $\frac{1}{8}$	2.1305	1 $\frac{1}{4}$	45	SB2125-7	
1 $\frac{3}{4}$		2 $\frac{1}{8}$	2.1305	9 $\frac{1}{32}$	45	SB2125-10	
1 $\frac{3}{4}$		2 $\frac{1}{8}$	2.1305	5 $\frac{1}{16}$	45	SB2125-8	
1 $\frac{3}{4}$		2 $\frac{1}{8}$	2.1305	3 $\frac{1}{8}$	45	SB2125-0	
1 $\frac{3}{4}$		2 $\frac{1}{8}$	2.1305	7 $\frac{1}{16}$	45	SB2125-30	
1 $\frac{3}{4}$		2 $\frac{3}{16}$	2.1930	7 $\frac{1}{32}$	45	SB2187-15	
1 $\frac{3}{4}$		2 $\frac{3}{16}$	2.1930	9 $\frac{1}{32}$	45	SB2187-3	
1 $\frac{3}{4}$		2 $\frac{3}{16}$	2.1930	3 $\frac{1}{8}$	45	SB2187-8	
1 $\frac{3}{4}$		2 $\frac{3}{16}$	2.1930	7 $\frac{1}{16}$	45	SB2187-7	
1 $\frac{3}{4}$		2 $\frac{1}{4}$	2.2555	7 $\frac{1}{32}$	45	SB2250-5	
1 $\frac{3}{4}$		2 $\frac{1}{4}$	2.2555	3 $\frac{1}{8}$	45	SB2250-7	
1 $\frac{3}{4}$		2 $\frac{1}{4}$	2.2555	7 $\frac{1}{16}$	45	SB2250-17	
1 $\frac{3}{4}$		2 $\frac{5}{16}$	2.3180	1 $\frac{1}{4}$	30	SB2312-6	
1.752T	1.806	2.126	2.1265	0.3230	20	SB2126E-2	
1.752T	1.868	2.129	2.1290	0.3060	30	SB2129E-2	
1.770T	1.801	2.013	2.0130	0.2885	45	SB2013E-1	
45mm		56mm	2.2047	11mm	45	SB2205E-2	
1 $\frac{25}{32}$ T	1.871	2.049	2.0485	1 $\frac{1}{32}$	30	SB2049E-1	005,010,020
1 $\frac{25}{32}$ T	1.871	2.054	2.0535	1 $\frac{1}{32}$	30	SB2049E-1+005	
1 $\frac{25}{32}$ T	1.871	2.059	2.0585	1 $\frac{1}{32}$	30	SB2049E-1+010	
1 $\frac{25}{32}$ T	1.871	2.069	2.0685	1 $\frac{1}{32}$	30	SB2049E-1+020	
1.782		2.100	2.1000	0.2670	30	SB2100E-1	
1 $\frac{13}{16}$ T	1.863	2.129	2.1290	7 $\frac{1}{16}$	30	SB2129E-1	See SB2131E-1
46mm		57mm	2.2441	11mm	45	SB2244E-1	
1 $\frac{13}{16}$		2.000	2.0055	7 $\frac{1}{32}$	45	SB2000-7	
1 $\frac{13}{16}$		2 $\frac{1}{8}$	2.1305	3 $\frac{1}{16}$	45	SB2125-38	
1 $\frac{13}{16}$		2 $\frac{1}{8}$	2.1305	1 $\frac{1}{4}$	45	SB2125-1	
1 $\frac{13}{16}$		2.000	2.0055	1 $\frac{1}{4}$	45	SB2000-38	
1 $\frac{13}{16}$		2 $\frac{1}{16}$	2.0680	3 $\frac{1}{16}$	45	SB2062-30	
1 $\frac{13}{16}$		2 $\frac{1}{16}$	2.0680	7 $\frac{1}{32}$	45	SB2062-29	
1 $\frac{13}{16}$ T	1 $\frac{7}{8}$	2 $\frac{1}{16}$	2.0680	1 $\frac{1}{4}$	45	SB2062-1	
1 $\frac{13}{16}$		2 $\frac{1}{16}$	2.0680	1 $\frac{1}{4}$	45	SB2062-3	
1 $\frac{13}{16}$		2 $\frac{1}{16}$	2.0680	5 $\frac{1}{16}$	45	SB2062-31	
1 $\frac{13}{16}$		2 $\frac{1}{8}$	2.1305	7 $\frac{1}{32}$	45	SB2125-31	
1 $\frac{13}{16}$		2 $\frac{1}{8}$	2.1305	5 $\frac{1}{16}$	45	SB2125-32	
1 $\frac{13}{16}$		2 $\frac{1}{8}$	2.1305	3 $\frac{1}{8}$	45	SB2125-33	
1 $\frac{13}{16}$ T	1.863	2.131	2.1310	7 $\frac{1}{16}$	30	SB2131E-1	010,020,030
1 $\frac{13}{16}$ T	1.863	2.141	2.1410	7 $\frac{1}{16}$	30	SB2131E-1+010	
1 $\frac{13}{16}$ T	1.863	2.151	2.1510	7 $\frac{1}{16}$	30	SB2131E-1+020	
1 $\frac{13}{16}$ T	1.863	2.161	2.1610	7 $\frac{1}{16}$	30	SB2131E-1+030	
1 $\frac{13}{16}$		2 $\frac{3}{16}$	2.1930	1 $\frac{1}{4}$	45	SB2187-1C	
1 $\frac{13}{16}$		2 $\frac{3}{16}$	2.1930	1 $\frac{1}{4}$	45	SB2187-1	
1 $\frac{13}{16}$		2 $\frac{3}{16}$	2.1930	9 $\frac{1}{32}$	45	SB2187-2	
1 $\frac{13}{16}$		2 $\frac{3}{16}$	2.1930	3 $\frac{1}{8}$	45	SB2187-9	
1 $\frac{13}{16}$		2 $\frac{1}{4}$	2.2555	1 $\frac{1}{4}$	45	SB2250-8	
1 $\frac{13}{16}$		2 $\frac{1}{4}$	2.2555	7 $\frac{1}{16}$	45	SB2250-18	
1 $\frac{13}{16}$		2 $\frac{5}{16}$	2.3180	3 $\frac{1}{8}$	45	SB2312-11	
1 $\frac{13}{16}$		2 $\frac{5}{16}$	2.3180	7 $\frac{1}{16}$	45	SB2312-8	
1.820T	2.024	2 $\frac{3}{16}$	2.1945	0.3410	45	SB2187-50PM	
1.820T	2.024	2 $\frac{3}{16}$	2.1945	0.3410	45	SB2187-50	
1.843		2.220	2.2200	0.3120	45	SB2220E-1	
47mm		58mm	2.2835	11mm	45	SB2284E-2	
1-55/64		2.150	2.1500	0.2920	30	SB2150E-1	010,020
1-55/64		2.160	2.1600	0.2920	30	SB2150E-1+010	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1-55/64		2.170	2.1700	0.2920	30	SB2150E-1+020	
1 ⁷ / ₈		2 ¹ / ₈	2.1305	7 ⁷ / ₃₂	45	SB2125-34	
1 ⁷ / ₈		2 ¹ / ₈	2.1305	1 ¹ / ₄	45	SB2125-2	
1 ⁷ / ₈		2 ³ / ₁₆	2.1930	3 ¹ / ₁₆	45	SB2187-11	
1 ⁷ / ₈		2 ³ / ₁₆	2.1930	1 ¹ / ₄	45	SB2187-12	
1 ⁷ / ₈		2 ³ / ₁₆	2.1930	9 ⁹ / ₃₂	45	SB2187-4	
1 ⁷ / ₈		2 ¹ / ₄	2.2555	1 ¹ / ₄	45	SB2250-9	
1 ⁷ / ₈		2 ¹ / ₄	2.2555	9 ⁹ / ₃₂	45	SB2250-2	
1 ⁷ / ₈		2 ¹ / ₄	2.2555	5 ⁵ / ₁₆	45	SB2250-20	
1 ⁷ / ₈		2 ¹ / ₄	2.2555	3 ³ / ₈	45	SB2250-13	
1 ⁷ / ₈		2 ¹ / ₄	2.2570	3 ³ / ₈	45	SB2250-50	
1 ⁷ / ₈		2 ¹ / ₄	2.2570	3 ³ / ₈	45	SB2250-50PM	
1 ⁷ / ₈		2 ⁵ / ₁₆	2.3180	9 ⁹ / ₃₂	45	SB2312-1	
1 ⁷ / ₈		2 ³ / ₈	2.3805	7 ⁷ / ₁₆	45	SB2375-15	
48mm		59mm	2.3228	11mm	45	SB2323E-2	
1.890		2.368	2.3680	0.4600	20	SB2368E-2N	See SB2388E-1N
1.890		2.387	2.3875	0.3610	20	SB2387E-2	
1.890T	1.935	2.368	2.3680	0.4600	20	SB2368E-3N	See SB2388E-2N
1.890T	1.935	2.388	2.3880	0.4600	20	SB2388E-2N	
1.890T	1.932	2.388	2.3880	0.4600	20	SB2388E-1N	
1 ²⁹ / ₃₂		2 ¹ / ₈	2.1310	1 ¹ / ₄	45	SB2125-4	
49mm		61mm	2.4016	11.5mm	45	SB2402E-1N	
49mm		61mm	2.4016	11.5mm	45	SB2402E-1	
1.930		2.381	2.3810	0.3225	30	SB2381E-1C	
1.930		2.381	2.3810	0.3225	30	SB2381E-1	010
1.930		2.391	2.3910	0.3225	30	SB2381E-1+010	
1 ¹⁵ / ₁₆		2 ¹ / ₄	2.2555	3 ³ / ₁₆	45	SB2250-1	
1 ¹⁵ / ₁₆		2 ¹ / ₈	2.1305	3 ³ / ₁₆	45	SB2125-3	
1 ¹⁵ / ₁₆		2 ¹ / ₈	2.1305	7 ⁷ / ₃₂	45	SB2125-39	
1 ¹⁵ / ₁₆		2 ³ / ₁₆	2.1930	1 ¹ / ₄	45	SB2187-27	
1 ¹⁵ / ₁₆		2 ¹ / ₄	2.2555	7 ⁷ / ₃₂	45	SB2250-35	
1 ¹⁵ / ₁₆		2 ¹ / ₄	2.2555	1 ¹ / ₄	45	SB2250-15	
1 ¹⁵ / ₁₆		2 ¹ / ₄	2.2555	9 ⁹ / ₃₂	45	SB2250-12	
1 ¹⁵ / ₁₆		2 ⁵ / ₁₆	2.3180	1 ¹ / ₄	45	SB2312-16	
1 ¹⁵ / ₁₆		2 ⁵ / ₁₆	2.3180	9 ⁹ / ₃₂	45	SB2312-2	
1.960		2.212	2.2125	0.2500	45	SB2212E-1N	
50mm		62mm	2.4409	11.5mm	45	SB2441E-1	
50mm		62mm	2.4409	11.5mm	45	SB2441E-1N	
1.970T	2.047	2.387	2.3870	0.3820	30	SB2387E-1	
1.977		2.366	2.3665	0.3920	45	SB2366E-2N	
2.000		2 ¹ / ₄	2.2555	7 ⁷ / ₃₂	45	SB2250-36	
2.000		2 ¹ / ₄	2.2555	1 ¹ / ₄	45	SB2250-37	
2.000		2 ¹ / ₄	2.2555	9 ⁹ / ₃₂	45	SB2250-10	
2.000		2 ⁵ / ₁₆	2.3180	1 ¹ / ₄	45	SB2312-9	
2.000		2 ³ / ₈	2.3805	9 ⁹ / ₃₂	45	SB2375-2	
2.000		2 ³ / ₈	2.3805	9 ⁹ / ₃₂	45	SB2375-2N	
2.000		2.503	2.5030	1 ¹ / ₂	45	SB2503E-1	See SB2506E-1
2.000		2.506	2.5060	1 ¹ / ₂	45	SB2506E-1	020
2.000		2.526	2.5260	1 ¹ / ₂	45	SB2506E-1+020	
2.030		2.381	2.3810	0.3225	30	SB2381E-2C	
2.030		2.381	2.3810	0.3225	30	SB2381E-2	010
2.030		2.391	2.3910	0.3225	30	SB2381E-2+010	
2.045		2.367	2.3670	0.3820	30	SB2367E-1	
2.046		2.444	2.4440	0.2990	30	SB2444E-1	015,030,062
2.046		2.459	2.4590	0.2990	30	SB2444E-1+015	
2.046		2.474	2.4740	0.2990	30	SB2444E-1+030	
2.046		2.506	2.5060	0.2990	30	SB2444E-1+062	
52mm		64mm	2.5197	11.5mm	45	SB2520E-1	
2 ¹ / ₁₆ T	2.160	2.503	2.5030	1 ¹ / ₂	45	SB2503E-2	See SB2506E-2

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
2 ¹ / ₁₆ T	2.160	2.506	2.5060	1/2	45	SB2506E-2	020
2 ¹ / ₁₆ T	2.160	2.526	2.5260	1/2	45	SB2506E-2+020	
2 ¹ / ₈		2.435	2.4350	0.6250	30	SB2435E-2N	
2 ¹ / ₈ T	2.207	2.435	2.4350	5/8	30	SB2435E-1	010
2 ¹ / ₈ T	2.207	2.445	2.4450	5/8	30	SB2435E-1+010	
55mm		68mm	2.6772	12mm	45	SB2677E-1	
2 ³ / ₁₆		2 ⁹ / ₁₆	2.5685	1/4	30	SB2562-1	
2 ⁹ / ₃₂ T	2.360	2.590	2.5900	5/8	30	SB2590E-1	010,020
2 ⁹ / ₃₂ T	2.360	2.600	2.6000	5/8	30	SB2590E-1+010	
2 ⁹ / ₃₂ T	2.360	2.610	2.6100	5/8	30	SB2590E-1+020	

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
00100	1.537	5.730	0.3110	N/A	45	MR	N	N
00121	1.468	5.810	0.3715	0.1882	45	1G	N	N
00122	1.531	5.810	0.3727	0.1880	45	1G	N	N
00154	1.313	4.906	0.3412	0.4220	45	1G	N	N
00155	1.438	4.906	0.3412	0.3591	45	1G	N	N
00159	1.594	6.700	0.4340	0.4840	45	2G	N	N
00160	1.718	6.670	0.4340	0.4840	45	2G	N	N
00161	1.219	4.844	0.3410	0.2030	45	1G	N	N
00162	1.342	4.832	0.3410	0.2062	45	1G	N	N
00168	1.500	5.156	0.3715	0.4220	45	1G	N	N
00169	1.688	5.161	0.3715	0.4220	45	1G	N	N
00170	1.203	5.179	0.3381	0.4530	45	DR	N	N
00185	1.407	4.840	0.3405	0.2500	45	2G	N	N
00193	1.500	5.363	0.3410	0.2430	45	2G	N	N
00196	1.328	5.197	0.3387	0.4530	44	DR	N	N
00203	1.656	5.844	0.3715	0.2500	45	2G	N	N
00204	1.812	5.848	0.3715	0.2500	45	2G	N	N
00205	1.375	5.359	0.3410	0.2430	45	2G	N	N
00210	1.328	5.198	0.3387	0.4150	44	1G	N	N
00212	1.510	4.819	0.3410	0.2565	45	1G	N	N
00214	1.510	4.818	0.3415	0.2600	45	1G	N	N
00220	1.281	4.807	0.3410	0.2565	45	1G	N	N
00230	1.094	3.395	0.3100	0.2331	45	1G	N	N
00234	1.015	3.938	0.3128	0.2350	45	DR	N	N
00249	1.313	4.771	0.3085	0.2449	45	1G	N	N
00257	1.501	4.844	0.3400	0.2508	45	2G	N	N
00268	1.203	4.993	0.3387	0.2500	45	1G	N	N
00269	1.328	4.957	0.3411	0.2500	30	1G	N	N
00270	1.283	4.700	0.3410	0.4025	45	TA	N	N
00298	1.718	4.845	0.3410	0.2510	45	2G	N	N
00302	2.000	4.791	0.3733	0.1870	45	1G	N	N
00303	1.468	5.913	0.3715	0.1858	45	1G	N	N
00308	1.875	6.391	0.3415	0.7563	30	2G	N	N
00310	1.281	4.505	0.3095	0.2970	45	1G	N	N
00311	1.511	4.498	0.3095	0.2965	45	1G	N	N
00312	1.156	4.942	0.3410	0.2059	45	1G	N	N
00313	1.342	4.941	0.3410	0.2059	45	2G	N	N
00318	2.028	7.788	0.4365	N/A	44	TA	N	N
00319	1.840	7.781	0.4365	N/A	44	TA	N	N
00326S	1.745	7.058	0.4025	0.4010	30	2G	N	N
00327	1.584	6.443	0.3421	0.3583	30	1G	N	N
00343	1.278	3.977	0.3146	0.2660	30	DR	N	N
00348	1.510	4.978	0.3410	N/A	45	TA	N	N
00349	1.531	4.845	0.3405	0.2500	45	2G	N	N
00373	1.780	5.110	0.3421	0.2000	45	1G	N	N
00375	1.510	5.089	0.3418	0.2000	45	1G	N	N
00376	1.647	5.090	0.3420	0.2000	45	1G	N	N
00399	1.720	4.917	0.3413	0.2591	45	2G	N	N
00399+15	1.720	4.917	0.3563	0.2591	45	2G	N	N
00400	1.500	4.928	0.3412T	0.2890	45	2G	N	N
00400+15	1.500	4.928	0.3562T	0.2890	45	2G	N	N
00400+3	1.500	4.928	0.3445T	0.2890	45	2G	N	N
00411	1.584	6.444	0.3420	0.3585	30	1G	N	N
00427S	1.656	6.083	0.3715	0.2488	45	2G	N	N
00428	1.812	6.083	0.3715	0.2485	45	2G	N	N
00485	0.906	3.390	0.3100	0.2330	45	1G	N	N
00486	1.140	4.084	0.3128	0.2950	44	1G	N	N
00489	1.015	4.077	0.3128	0.2000	44	1G	N	N
00494	1.925	5.110	0.3421	0.2000	44	1G	N	N
00503	1.312	5.281	0.3410	0.2060	44	2G	N	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
00504	1.500	5.280	0.3410	0.2060	44	2G	N	N
00514	1.844	4.599	0.3725	0.2130	45	2G	N	N
00518	1.563	4.539	0.3715	0.0989	45	4G	N	N
00520	1.600	4.889	0.3725T	0.2235	45	4G	N	N
00530SN	1.634	5.700	0.4339	0.2700	44.5	1G	Y	N
00531S	2.020	5.742	0.4353	0.2716	44	1G	Y	N
00548	2.080	4.869	0.3725	0.3365	45	2G	N	N
00549	1.406	4.892	0.3720T	0.0874	44	4G	N	N
00550	1.787	4.899	0.3720	0.0898	29	4G	N	N
00554	2.227	8.820	0.4960	0.4380	45	2G	N	N
00555	2.645	8.820	0.4970	0.4380	30	2G	N	N
00559S	1.609	5.473	0.3720	0.5181	45	2G	N	N
00560	1.969	5.223	0.3725	0.2840	45	2G	N	N
00564	1.268	4.260	0.3100	0.1900	45	1G	N	N
00567	1.620	4.774	0.3725	0.3365	45	2G	N	N
00567+15	1.620	4.774	0.3875	0.3365	45	2G	N	N
00574S	2.282	9.264	0.4955	N/A	45	TA	N	N
00585	2.027	5.446	0.3716	0.3209	30	1G	N	N
00592	1.300	6.063	0.3720	0.2772	45	1G	N	N
00593	1.652	6.063	0.3720	0.2772	45	1G	N	N
00598S	1.250	4.771	0.3085T	0.2450	45	1G	N	N
00600	1.656	5.086	0.3720	0.2772	30	2G	N	N
00601	1.781	5.072	0.3720	0.2772	30	2G	N	N
00602	1.870	7.063	0.4505	0.4010	30	2G	N	N
00602S	1.870	7.063	0.4505	0.4010	30	2G	Y	N
00603	1.870	7.063	0.4505	0.4010	30	2G	N	N
00608	1.510	5.825	0.3410	N/A	44	TA	N	N
00609	1.647	5.931	0.3418	0.2465	44	1G	N	N
00626	1.688	5.157	0.3726	0.4220	30	1G	N	N
00627	1.527	4.260	0.3105	0.1902	44	1G	N	N
00637	2.027	5.446	0.3716	0.3209	45	1G	N	N
00637+15	2.027	5.446	0.3866	0.3209	45	1G	N	N
00658	1.500	5.731	0.3720	0.3280	44	2G	N	N
00659	1.688	5.700	0.3720	0.3280	44	2G	N	N
00678	1.731	7.245	0.4025	0.2500	45	1G	N	N
00682	1.415	5.288	0.3411	0.4240	30	2G	N	N
00683	1.270	5.325	0.3387	0.4720	45	1G	N	N
00690	1.403	6.352	0.3404	0.3130	45	2G	Y	N
00691	1.604	6.352	0.3414	0.3130	45	2G	Y	N
00696	1.940	4.880	0.3414	0.2591	45	2G	N	N
00702	1.870	6.605	0.4505	0.3976	30	2G	N	N
00703	1.870	6.605	0.4505	0.3970	30	2G	N	N
00734	2.557	8.125	0.4970	0.2810	30	2G	N	N
00742	1.450	4.863	0.3420	0.2398	45	1G	N	N
00746S	1.360	4.797	0.3715	0.3543	43	2G	N	N
00751S	2.350	9.390	0.4955	N/A	29	TA	N	N
00752S	2.505	9.388	0.4955	N/A	29	TA	N	N
00753S	1.771	6.563	0.3717	0.2827	29	2G	N	N
00754	1.771	6.563	0.3720	0.2830	30	2G	N	N
00755	1.895	6.563	0.3717	0.2730	29	2G	N	N
00758	1.400	6.408	0.3103	0.3583	30	1G	N	N
00759	1.090	5.552	0.2484	0.3100	30	1G	N	N
00793	1.395	4.984	0.3715	0.3120	45	2G	N	N
00810	1.516	5.157	0.3410	0.4528	30	DR	N	N
00819S	2.005	8.128	0.4960	0.2810	45	2G	N	N
00852S	2.343	9.295	0.4955	N/A	45	TA	N	N
00867	1.641	5.532	0.3406	0.3370	30	2G	N	N
00873	1.315	4.499	0.3115	0.1800	45	1G	N	N
00874	1.534	4.500	0.3115	0.1803	45	1G	N	N
00882A	1.440	4.848	0.3725	0.2028	45	1G	Y	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
00883	1.744	4.829	0.3730	0.1930	45	1G	N	N
00912	1.454	4.984	0.3725	0.3122	44	2G	N	N
00917SN	1.506	5.370	0.4343	0.3228	44	2G	Y	N
00917SN+15	1.506	5.370	0.4493	0.3228	44	2G	Y	N
00918	1.753	5.393	0.3715	0.4732	45	1G	Y	N
00919	1.600	4.904	0.3415	0.2890	45	2G	Y	N
00921	1.375	6.060	0.3720	0.2771	45	1G	N	N
00922	1.679	6.035	0.3720	0.2772	45	1G	N	N
00923	1.625	6.238	0.4350	0.2984	45	2G	N	N
00924	1.940	6.150	0.4350	0.2984	45	2G	N	N
00938	1.780	4.979	0.3725	0.3362	45	2G	N	N
00938+15	1.780	4.979	0.3875	0.3362	45	2G	N	N
00947	1.781	4.863	0.3420	0.2398	45	1G	N	N
00949	1.753	5.393	0.3715	0.3030	44	1G	N	N
00958	1.920	4.898	0.3411	0.2200	29	2G	N	N
00963	1.781	4.810	0.3420	0.2402	45	1G	N	N
00969	1.875	4.740	0.3427	0.2280	44	1G	N	N
00970	1.562	4.728	0.3422	0.2280	44	1G	N	Y
00974	1.624	4.695	0.3422	0.2579	44	1G	Y	N
00975	1.625	4.643	0.3410	0.1195	45	1G	N	N
00976	1.375	4.643	0.3407T	0.1195	45	1G	N	N
00982S	2.000	7.863	0.4965	0.7035	44	1G	Y	N
00983	2.375	7.863	0.4965	0.7035	29	1G	N	N
00988	2.020	4.880	0.3415	0.2591	45	2G	Y	N
00989	1.375	4.942	0.3412	0.3590	45	1G	N	N
00996S	1.660	5.367	0.3718	0.2201	45	1G	Y	N
00996S+15	1.660	5.367	0.3868	0.2201	45	1G	Y	N
00997	1.840	5.235	0.3720	0.2201	45	1G	Y	N
01000	1.451	4.873	0.3415	0.3602	45	1G	N	N
01000+15	1.451	4.873	0.3565	0.3602	45	1G	N	N
01001	1.780	4.873	0.3420	0.3602	44.5	1G	N	N
01001+15	1.780	4.873	0.3570	0.3602	44.5	1G	N	N
01002	2.072	4.688	0.3427	0.2585	30	1G	N	N
01018	1.090	5.552	0.2484	0.3100	30	1G	N	N
01036S	2.245	6.859	0.4970	0.2661	30	1G	Y	N
01037	1.890	6.864	0.4960	0.2657	30	1G	Y	N
01041	1.250	4.438	0.3095	0.3000	45	1G	N	N
01042	1.480	5.356	0.3095	0.3663	30	1G	N	N
01047	1.625	4.917	0.3720T	0.1850	44	1G	N	Y
01048	2.025	4.899	0.3720	0.1850	29	1G	N	N
01055	1.375	5.524	0.3386	0.3370	44	1G	N	N
01057S	1.753	5.393	0.3714	0.4730	44	1G	Y	N
01057S+15	1.753	5.393	0.3864	0.4730	44	1G	Y	N
01072	1.640	4.877	0.3410	0.2201	44	2G	Y	Y
01073	1.438	4.952	0.3425	0.3430	45	1G	N	N
01075S	1.516	5.053	0.3715	0.2770	30	1G	N	N
01082	1.875	5.009	0.3725	0.1195	45	1G	Y	N
01083	1.625	5.246	0.3418	0.2100	44	1G	Y	Y
01084	2.000	5.233	0.3420	0.2098	44	1G	N	N
01087	1.940	5.230	0.3720	0.2201	45	1G	Y	N
01087+15	1.940	5.230	0.3870	0.2201	45	1G	Y	N
01093	1.660	4.984	0.3410	0.2200	44	2G	Y	N
01097	1.770	5.093	0.3410	0.2201	44	2G	Y	N
01098	2.110	5.098	0.3415	0.2200	29	2G	Y	N
01102	1.654	5.080	0.3420	0.4000	44	1G	Y	Y
01103	2.083	5.288	0.3420	0.3402	45	1G	Y	N
01105	2.000	5.138	0.3725	0.1195	45	1G	Y	N
01106	1.720	5.355	0.3715	0.2201	45	1G	Y	N
01106+15	1.720	5.355	0.3865	0.2201	45	1G	Y	N
01107	2.065	5.230	0.3720	0.2201	45	1G	Y	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
01107+15	2.065	5.230	0.3870	0.2201	45	1G	Y	N
01120	1.780	4.810	0.3420	0.2402	45	1G	Y	N
01120+15	1.780	4.810	0.3570	0.2402	45	1G	Y	N
01131	1.875	5.355	0.3718	0.2201	45	1G	Y	Y
01133S	1.734	5.479	0.4145	0.5181	45	2G	Y	Y
01135	1.451	5.070	0.3414	0.4811	45	1G	Y	N
01135+15	1.451	5.070	0.3564	0.4811	45	1G	Y	N
01135+3	1.451	5.070	0.3444	0.4811	45	1G	Y	N
01135S	1.451	5.070	0.3414	0.4811	45	1G	Y	N
01137	1.781	5.050	0.3420	0.4610	45	1G	Y	N
01137+15	1.781	5.050	0.3570	0.4610	45	1G	Y	N
01145S	1.646	5.997	0.3717	0.3160	44	2G	N	N
01146S	1.771	5.997	0.3717	0.3160	44	2G	N	N
01147	1.203	5.190	0.3381	0.2882	45	1G	N	N
01148	1.516	5.167	0.3409	0.2882	30	1G	N	N
01152	2.078	5.250	0.3725	0.3200	30	2G	N	N
01156	1.740	4.885	0.3722T	0.2235	45	4G	Y	Y
01156+15	1.740	4.885	0.3872T	0.2235	45	4G	Y	Y
01160	1.770	4.975	0.3410	0.2200	44	2G	Y	N
01161	2.110	4.979	0.3415	0.2200	29	2G	Y	N
01164	2.190	5.225	0.3720	0.2201	45	1G	Y	N
01169	1.655	5.050	0.3415	0.1961	45	4G	N	N
01169+15	1.655	5.050	0.3565	0.1961	45	4G	N	N
01170	2.041	5.231	0.3419	0.2118	45	4G	N	N
01170+15	2.041	5.231	0.3569	0.2118	45	4G	N	N
01171	1.709	5.050	0.3415	0.1960	44	4G	Y	N
01172	2.190	5.231	0.3420	0.2120	44	4G	Y	N
01177S	1.560	4.810	0.3419	0.2449	44	1G	Y	Y
01177S+15	1.560	4.810	0.3569	0.2449	44	1G	Y	Y
01179	1.680	4.910	0.3720T	0.1850	44	1G	N	Y
01180	1.880	4.981	0.3725	0.3362	45	2G	N	N
01180+15	1.880	4.981	0.3875	0.3362	45	2G	N	N
01186	1.811	4.979	0.3725	0.3362	45	2G	N	N
01188	1.500	5.027	0.3725	0.1197	45	1G	Y	N
01189	1.625	5.158	0.3725	0.1195	45	1G	Y	N
01192	1.500	4.928	0.3412T	0.2890	45	2G	Y	N
01192+15	1.500	4.928	0.3562T	0.2890	45	2G	Y	N
01192+3	1.500	4.928	0.3445T	0.2890	45	2G	Y	N
01193	1.720	4.917	0.3413	0.2591	45	2G	Y	N
01193+15	1.720	4.917	0.3563	0.2591	45	2G	Y	N
01193+3	1.720	4.917	0.3443	0.2591	45	2G	Y	N
01194	1.720	4.917	0.3420	0.2591	45	2G	Y	N
01195	1.940	4.880	0.3414	0.2591	45	2G	Y	N
01195+15	1.940	4.880	0.3564	0.2591	45	2G	Y	N
01195+3	1.940	4.880	0.3444	0.2591	45	2G	Y	N
01199	1.417	4.353	0.3153	0.2461	44	3G	Y	N
01203	1.896	5.469	0.3717	0.2770	29	2G	N	N
01204	2.020	5.510	0.3717	0.3080	29	2G	N	N
01205S	1.896	5.469	0.3717	0.2772	29	2G	N	N
01206S	1.500	4.923	0.3412T	0.2890	45	2G	Y	N
01206S+15	1.500	4.923	0.3563T	0.2890	45	2G	Y	Y
01210	1.684	4.675	0.3423	0.2580	30	1G	N	Y
01212	1.622	4.708	0.3423	0.2280	30	1G	N	N
01215	1.770	4.875	0.3410	0.2200	44	2G	Y	N
01216	2.110	4.880	0.3415	0.2200	29	2G	Y	N
01217S	1.508	5.373	0.3704	0.3030	44	1G	Y	N
01233	1.575	5.157	0.3720	0.3386	44	1G	Y	N
01234	1.772	5.157	0.3720	0.3385	44	1G	Y	N
01235S	1.660	5.367	0.3716	0.2200	45	1G	Y	N
01237	1.541	5.070	0.3415	0.3930	45	1G	Y	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
01237+15	1.541	5.070	0.3565	0.3930	45	1G	Y	N
01238	1.842	5.070	0.3420	0.3929	45	1G	Y	N
01238+15	1.842	5.070	0.3570	0.3929	45	1G	Y	N
01241SN	1.660	5.350	0.3716	0.2205	46	1G	Y	N
01242	1.559	5.436	0.3715	0.3209	45	1G	Y	N
01242+15	1.559	5.436	0.3865	0.3209	45	1G	Y	N
01245	1.660	4.959	0.3410	0.2200	44	2G	Y	Y
01247	1.660	4.870	0.3410	0.2197	44	2G	Y	Y
01257	1.680	4.930	0.3720T	0.2551	44	1G	N	Y
01258	2.025	4.899	0.3720	0.1825	29	4G	N	N
01258+15	2.025	4.899	0.3870	0.1825	29	4G	N	N
01260	1.787	4.899	0.3720	0.1825	29	4G	N	N
01261S	1.720	5.355	0.3716	0.2201	45	1G	Y	Y
01261S+15	1.720	5.355	0.3866	0.2201	45	1G	Y	Y
01263	1.875	4.667	0.3428	0.2579	44	1G	N	N
01265	1.360	4.796	0.3715	0.2235	43	4G	Y	N
01266	1.390	4.260	0.3101	0.1902	45	1G	Y	N
01266+15	1.390	4.260	0.3251	0.1902	45	1G	Y	N
01268	1.651	4.260	0.3103	0.1902	44	1G	Y	N
01271	1.654	4.983	0.3419	0.4000	45	1G	Y	N
01271+15	1.654	4.983	0.3569	0.4000	45	1G	Y	N
01272	2.083	5.198	0.3419	0.3398	45	1G	Y	N
01272+15	2.083	5.198	0.3569	0.3398	45	1G	Y	N
01273	1.880	4.981	0.3720	0.2238	45	4G	N	N
01285	1.570	4.158	0.3165	0.2008	44	1G	Y	N
01288	1.715	6.227	0.3720	0.3250	45	2G	Y	N
01289	1.902	6.245	0.3720	0.3252	44	2G	Y	N
01292	1.625	4.998	0.3414	0.2220	44	1G	Y	Y
01293	2.000	4.985	0.3416	0.2220	44	1G	N	N
01294S	1.500	4.923	0.3716T	0.2890	45	2G	Y	N
01294S+15	1.500	4.923	0.3868T	0.2890	45	2G	Y	Y
01296	1.960	4.980	0.3415	0.2200	44	2G	Y	N
01300	1.269	4.162	0.3153	0.1799	44	3G	Y	N
01305S	1.457	5.322	0.3720	0.2725	44	1G	N	N
01306	1.772	5.312	0.3720	0.4325	44	2G	N	N
01307	1.600	5.006	0.3715	0.2236	43	4G	Y	N
01309	1.600	5.006	0.3715	0.4085	43	2G	N	N
01310	1.660	4.809	0.3410	0.2201	44	2G	Y	N
01312S	1.517	4.996	0.3715	0.4079	45	2G	Y	N
01314S	2.020	5.510	0.3717	0.3079	29	2G	N	N
01320	1.550	5.016	0.3726	0.1185	45	1G	Y	N
01321	1.687	5.155	0.3726	0.1195	45	1G	Y	N
01322	1.300	4.680	0.3423	0.2579	30	1G	Y	N
01323	1.522	4.667	0.3428	0.2579	44	1G	N	N
01324	1.622	4.675	0.3423	0.2579	30	1G	Y	N
01325	1.406	4.892	0.3721T	0.1825	44	4G	Y	Y
01326	1.680	4.910	0.3720T	0.1823	44	4G	Y	Y
01326+15	1.680	4.910	0.3864T	0.1823	44	4G	Y	Y
01327	1.461	5.070	0.3414	0.3929	44	1G	Y	N
01328	1.782	5.070	0.3419	0.3929	45	1G	Y	N
01328+15	1.782	5.070	0.3569	0.3929	45	1G	Y	N
01328+3	1.782	5.070	0.3449	0.3929	45	1G	Y	N
01329	1.500	5.003	0.3715	0.2235	43	4G	Y	N
01329+15	1.500	5.003	0.3865	0.2235	43	4G	Y	N
01332	1.508	5.373	0.3704	0.3030	44	1G	Y	N
01332+15	1.508	5.373	0.3854	0.3030	44	1G	Y	N
01336S	1.902	6.148	0.3720	0.3250	44	2G	Y	N
01346S	1.635	5.702	0.4340	0.2717	44	1G	Y	N
01350S	1.370	5.800	0.3100	0.1890	44	1G	N	N
01351S	1.430	5.800	0.3100	0.1890	44	1G	N	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
01354	1.502	4.688	0.3423	0.2578	30	1G	Y	N
01357	1.751	4.260	0.3103	0.1902	45	1G	Y	N
01358	1.560	4.810	0.3419	0.2449	45	1G	Y	N
01358+15	1.560	4.810	0.3569	0.2449	45	1G	Y	N
01361	1.500	5.078	0.3412	0.2858	45	2G	Y	Y
01362	1.720	5.078	0.3419	0.2860	45	2G	Y	N
01365	1.203	4.016	0.3145	0.2000	30	1G	N	N
01366	1.380	5.528	0.3104	0.3100	30	1G	N	N
01367	1.655	5.050	0.3414	0.2862	45	1G	Y	Y
01367+15	1.655	5.050	0.3564	0.2862	45	1G	Y	Y
01368S	1.508	4.983	0.3419	0.4000	44	1G	Y	Y
01375	1.715	6.133	0.3720	0.3250	44	1G	Y	N
01376S	1.500	5.945	0.3720	0.2960	44	1G	N	N
01377	1.715	6.208	0.3720	0.3250	29	1G	Y	N
01378	1.804	5.693	0.3715T	0.3217	45	2G	N	N
01379	2.094	5.698	0.3725	0.3220	30	2G	N	N
01380	2.041	5.231	0.3419	0.2618	45	1G	Y	N
01380+15	2.041	5.231	0.3569	0.2618	45	1G	Y	N
01381	1.562	4.954	0.3704	0.3992	45	1G	Y	Y
01382	1.784	5.147	0.3714	0.2920	44	1G	Y	N
01383SN	1.563	4.953	0.3705	0.3008	44.5	1G	Y	N
01383SN+15	1.563	4.953	0.3855	0.3008	44.5	1G	Y	N
01384S	1.784	5.147	0.3714	0.2921	44	1G	Y	N
01384S+15	1.784	5.147	0.3864	0.2921	44	1G	Y	N
01385SN	1.670	4.953	0.3708	0.3008	45	1G	Y	N
01385SN+15	1.670	4.953	0.3858	0.3008	45	1G	Y	N
01386S	2.064	5.147	0.3714	0.2921	44	1G	Y	N
01386S+15	2.064	5.147	0.3864	0.2921	44	1G	Y	N
01387	1.500	4.717	0.3408	0.2717	45	1G	Y	N
01388	1.710	4.713	0.3407	0.2717	45	1G	Y	N
01389	1.500	4.718	0.3408	0.2717	45	1G	Y	N
01393	1.840	4.912	0.3413	0.2591	45	2G	Y	N
01393+15	1.840	4.912	0.3563	0.2591	45	2G	Y	N
01394	1.307	4.730	0.3413	0.2890	45	2G	Y	N
01395	1.600	4.700	0.3413	0.2591	45	2G	Y	N
01397	1.500	4.807	0.3414	0.3780	44	4G	Y	N
01399	1.500	4.982	0.3715	0.2232	45	4G	Y	N
01402	1.688	5.914	0.3720	0.2960	44	2G	N	N
01403	1.715	6.192	0.3720	0.3200	29	2G	Y	N
01404	1.750	6.128	0.3720	0.3200	29	2G	Y	N
01406	1.875	6.561	0.4340	0.3500	44	1G	Y	N
01412	1.875	6.655	0.4342	0.3750	30	1G	Y	N
01415S	2.245	6.864	0.4970	0.2913	30	1G	Y	N
01417	1.617	4.995	0.3716	0.4085	45	2G	Y	N
01419	1.517	4.995	0.3716	0.4085	45	2G	Y	N
01419+15	1.517	4.995	0.3866	0.4085	45	2G	Y	N
01420S	1.605	5.565	0.3788	0.2433	30	1G	N	N
01422S	1.600	5.792	0.3712T	0.2252	45	1G	Y	N
01423	1.970	5.796	0.3720	0.2248	30	1G	Y	N
01429S	1.180	5.529	0.3104	0.3100	30	1G	N	N
01431S	1.535	5.482	0.3720	0.2840	45	1G	Y	Y
01432	2.054	5.467	0.3725	0.4831	44	1G	N	N
01441	1.406	4.892	0.3720T	0.2453	44	1G	Y	Y
01442	1.787	4.899	0.3720	0.2453	29	1G	N	N
01446	1.889	6.864	0.4955	0.2920	30	1G	Y	N
01448	1.394	4.442	0.3116T	0.2583	45	4G	Y	N
01449	1.598	4.419	0.3127	0.3543	45	1G	Y	N
01450	1.750	4.667	0.3428	0.2579	44	1G	N	N
01451	1.457	5.189	0.3152	0.3248	45	3G	Y	N
01452	1.654	5.306	0.3163	0.3598	45	3G	Y	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
01455	1.665	5.932	0.3413	0.2591	45	1G	N	N
01456	1.811	5.932	0.3413	0.2591	30	1G	N	N
01457	1.995	4.707	0.3427	0.2580	44	1G	N	N
01458S	2.282	9.266	0.3717T	0.7900	45	2G	N	N
01459S	2.343	9.297	0.3717	0.7700	45	1G	N	N
01460S	2.350	9.391	0.3717T	0.5045	30	2G	N	N
01461S	2.505	9.390	0.3717	0.5045	30	2G	N	N
01462S	1.771	7.140	0.3717	0.4902	29	2G	Y	N
01468S	1.646	7.132	0.3717	0.4900	44	2G	Y	N
01471S	1.821	5.167	0.3720	0.3385	30	2G	Y	N
01474S	2.000	7.863	0.4965	0.7035	30	1G	Y	N
01476S	2.350	9.392	0.3717T	0.5043	30	2G	N	N
01478	1.500	4.939	0.3115T	0.2457	44	1G	Y	N
01479	1.910	4.912	0.3115	0.2457	44	1G	N	N
01480	1.425	4.736	0.3413	0.2890	45	2G	Y	N
01480+15	1.425	4.736	0.3563	0.2890	45	2G	Y	N
01481	1.718	4.705	0.3413	0.2591	45	2G	Y	N
01481+15	1.718	4.705	0.3563	0.2591	45	2G	Y	N
01482S	1.496	5.108	0.3718T	0.2760	45	2G	Y	N
01483S	1.653	5.108	0.3719T	0.2750	45	2G	Y	N
01484	1.811	5.108	0.3413	0.2752	45	2G	Y	N
01491S	1.896	5.467	0.3717	0.2772	29	2G	N	N
01497S	1.804	5.683	0.3715T	0.3217	45	2G	Y	N
01498S	2.205	8.622	0.3717	0.6910	30	2G	N	N
01500	1.180	5.529	0.3104	0.3100	30	1G	N	N
01504	1.560	4.750	0.3420	0.2898	44.5	1G	Y	N
01504+15	1.560	4.750	0.3570	0.2898	44.5	1G	Y	N
01504S	1.560	4.750	0.3420	0.2898	44.5	1G	Y	N
01505	1.781	4.750	0.3420	0.2400	44.5	1G	Y	N
01505+15	1.781	4.750	0.3570	0.2400	44.5	1G	Y	N
01506S	1.805	6.101	0.4342	0.3190	44	1G	Y	N
01507	2.157	6.099	0.4345	0.3190	14	1G	N	N
01508	2.157	6.099	0.4345	0.3190	45	1G	N	N
01511	1.750	6.428	0.4025T	0.2500	45	2G	Y	N
01512	2.000	6.428	0.4025	0.2500	45	2G	Y	N
01519	1.455	5.640	0.3721	0.1840	45	1G	N	N
01520	1.710	5.689	0.3722	0.2250	30	1G	Y	N
01523S	1.444	5.997	0.3708	0.4010	30	1G	N	N
01524	1.620	5.996	0.3718	0.4008	29	1G	N	N
01525S	1.651	6.017	0.3708	0.4012	29.5	1G	N	N
01526	1.839	6.016	0.3718	0.4012	29	1G	N	N
01527	1.380	4.807	0.3414	0.3779	44	4G	Y	Y
01528	1.610	4.787	0.3419	0.3779	44	4G	Y	N
01531	1.673	6.940	0.3789	0.4122	30	1G	Y	N
01532	1.673	6.945	0.3789	0.4122	30	1G	N	N
01533S	2.220	7.545	0.4948	0.4600	30	1G	Y	N
01534	2.220	7.545	0.4950	0.4600	30	1G	Y	N
01535	1.371	4.615	0.3125	0.2803	44	3G	Y	Y
01536	1.661	4.615	0.3130	0.2217	44	3G	Y	N
01537	1.451	4.942	0.3414	0.4811	44	1G	Y	Y
01538	1.782	4.942	0.3420	0.3929	44	1G	Y	N
01542	1.595	5.670	0.3718T	0.2469	37	1G	Y	Y
01542S	1.595	5.674	0.3718T	0.2469	37	1G	Y	Y
01542S+15	1.595	5.674	0.3868T	0.2469	37	1G	Y	Y
01543	1.877	5.687	0.3719	0.2740	30	1G	Y	Y
01543+15	1.877	5.697	0.3869	0.2740	30	1G	Y	Y
01545	1.339	5.271	0.3152	0.3250	45	3G	Y	N
01546	1.535	5.383	0.3163	0.3600	44	3G	Y	N
01547	1.654	4.983	0.3419	0.4000	44	1G	Y	N
01547+15	1.654	4.983	0.3569	0.4000	44	1G	Y	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
01548	1.978	5.180	0.3419	0.3398	44	1G	Y	N
01548+15	1.978	5.180	0.3569	0.3398	44	1G	Y	N
01548S	1.977	5.198	0.3419	0.3398	44	1G	Y	N
01550+15	1.500	4.355	0.3282T	0.1870	45	1G	Y	N
01551	1.720	4.394	0.3135	0.2421	45	1G	Y	N
01551+15	1.720	4.394	0.3285	0.2421	45	1G	Y	N
01552	1.394	4.522	0.3116T	0.2579	45	4G	Y	N
01553	1.599	4.499	0.3122	0.3543	45	1G	Y	N
01554	1.394	4.523	0.3117T	0.2579	45	4G	Y	N
01555	1.598	4.499	0.3128	0.3543	45	1G	Y	N
01556	1.500	4.940	0.3115T	0.1559	44	1G	Y	N
01556+15	1.500	4.940	0.3265T	0.1559	44	1G	Y	N
01557	1.910	4.912	0.3115	0.1559	44	1G	N	N
01557+15	1.910	4.912	0.3265	0.1559	44	1G	N	N
01566	1.556	8.497	0.3430	0.6149	30	1G	Y	N
01567	1.732	8.498	0.3435	0.5949	30	1G	Y	N
01569	1.693	5.456	0.3136	0.2580	45	1G	Y	N
01570	1.573	6.867	0.3715	0.4095	30	1G	Y	N
01571S	1.694	6.955	0.3725	0.4095	30	1G	Y	N
01572	1.654	6.806	0.3715	0.4095	30	1G	Y	N
01573S	1.771	6.846	0.3725	0.4095	20	1G	Y	N
01574S	1.455	5.688	0.3713T	0.2252	45	1G	Y	N
01578S	1.720	5.355	0.3716	0.2200	45	1G	Y	N
01579S	1.575	6.961	0.3150	0.2830	45	1G	N	N
01580	1.850	6.976	0.3150	0.2830	30	1G	N	N
01581S	1.654	6.850	0.3717	0.6330	45	2G	N	N
01582	1.772	6.850	0.3717	0.5720	30	2G	N	N
01582S	1.772	6.850	0.3717	0.5720	30	2G	N	N
01584S	2.205	8.622	0.3717	0.6910	20	2G	Y	N
01586	1.850	6.174	0.3720	0.3248	30	1G	Y	N
01587	2.008	6.060	0.3730	0.3591	30	1G	Y	N
01588	1.673	5.257	0.3095	0.2567	30	1G	Y	Y
01589	1.835	5.278	0.3100	0.2567	30	1G	Y	N
01590S	2.031	6.661	0.4342	0.3750	20	1G	Y	N
01591	1.500	4.541	0.3133T	0.1870	45	1G	Y	N
01591+15	1.500	4.541	0.3283T	0.1870	45	1G	NR	N
01592	1.720	4.591	0.3135	0.2421	45	1G	Y	N
01592+15	1.720	4.591	0.3285	0.2421	45	1G	NR	N
01597	1.500	4.787	0.3414	0.3779	45	4G	Y	Y
01598	1.735	4.787	0.3419	0.3779	45	4G	Y	N
01600	1.881	5.349	0.3715	0.2180	45	1G	Y	N
01630S	1.896	6.395	0.3717	0.2770	30	2G	N	N
01631S	2.020	6.437	0.3717	0.3079	30	2G	N	N
01632S	1.646	7.140	0.3717	0.4900	20	2G	Y	N
01646S	1.500	4.923	0.3719	0.2890	46	2G	Y	N
01648	1.727	6.042	0.3723	0.7230	45	2G	Y	N
01649	1.924	6.020	0.3728	0.7780	45	2G	Y	N
01650S	1.750	6.428	0.4025T	0.2500	45	2G	Y	N
01653	1.500	5.745	0.3704	0.2449	45	2G	N	N
01654	1.805	5.743	0.3714	0.2449	45	1G	N	N
01656S	1.745	7.108	0.4025	0.4010	15	2G	Y	N
01658S	1.673	6.944	0.3789	0.4122	30	1G	Y	N
01659S	1.870	7.726	0.3789	0.4120	30	1G	N	N
01660	1.870	7.723	0.3789	0.4120	30	1G	N	N
01661S	1.870	7.726	0.3789	0.4120	30	1G	N	N
01662S	1.673	7.695	0.3789	0.4122	30	1G	Y	N
01662SNR	1.673	7.695	0.3789	0.4122	30	1G	Y	N
01663	1.673	7.690	0.3789	0.4122	30	1G	Y	N
01664	1.654	5.076	0.3138	0.2362	45	1G	Y	N
01664R	1.654	5.076	0.3138	0.2362	45	1G	NR	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
01665	1.772	5.084	0.3138	0.2360	30	1G	Y	N
01665R	1.772	5.084	0.3138	0.2360	30	1G	NR	N
01666	1.811	5.937	0.3736	0.2220	45	1G	Y	Y
01667	2.047	5.946	0.3736	0.2224	30	1G	Y	N
01670	1.476	4.974	0.3116	0.2670	45	4G	Y	N
01671	1.791	4.949	0.3128	0.2622	45	2G	Y	N
01673	1.398	4.330	0.2748	0.1756	44	1G	Y	N
01674	1.182	4.311	0.2743	0.1759	44	1G	Y	N
01675	1.617	4.995	0.3716	0.4087	45	2G	Y	Y
01693S	1.203	5.190	0.3381	0.2882	45	1G	N	N
01694	1.842	5.742	0.3718	0.2449	30	1G	Y	N
01695S	1.510	5.742	0.3705	0.2449	45	2G	N	N
01698	1.339	4.607	0.2740	0.4840	45	3G	Y	N
01698S	1.339	4.622	0.2740	0.4990	45	3G	Y	N
01699	1.752	4.607	0.2750	0.4840	45	3G	Y	N
01699S	1.752	4.622	0.2750	0.4989	45	3G	Y	N
01701	1.842	5.070	0.3419	0.3930	44	1G	Y	N
01702	1.260	4.100	0.2739	0.2000	45	1G	Y	N
01703	1.437	4.091	0.2742	0.1970	45	1G	Y	N
01704	1.457	5.165	0.3132	0.2098	45	1G	Y	N
01705	1.732	5.457	0.3136	0.1890	45	1G	Y	N
01706	1.142	3.564	0.2335	0.1460	45	1G	N	N
01707	1.308	4.169	0.2335	0.1860	45	1G	N	N
01708	1.181	4.578	0.2740	0.4560	44	3G	Y	N
01709	1.456	5.337	0.2750	0.6530	44	3G	Y	N
01710	1.490	4.727	0.3408	0.2980	45	1G	Y	N
01711	1.710	4.726	0.3407	0.2972	45	1G	Y	N
01712	1.378	4.516	0.2734	0.1768	45	3G	Y	N
01713	1.142	4.959	0.2722	0.2689	45	3G	Y	N
01714	1.920	4.906	0.3115	0.1559	44	1G	N	N
01714+15	1.920	4.906	0.3265	0.1559	44	1G	N	N
01715	1.624	4.920	0.3115T	0.1559	43.5	1G	Y	N
01715+15	1.639	4.920	0.3265T	0.1559	43.5	1G	Y	N
01716	2.087	6.594	0.3720	0.3740	37	1G	Y	N
01717S	2.087	6.536	0.3730	0.5315	29	1G	Y	N
01720S	1.673	6.945	0.3793	0.4120	30	1G	Y	N
01721S	1.875	7.115	0.4505	0.4010	20	2G	Y	N
01721S-OEM	1.875	7.115	0.4505	0.4010	20	2G	Y	N
01723	2.083	5.175	0.3419	0.3398	44.5	1G	Y	N
01726	1.437	4.320	0.2748	0.1756	44	1G	Y	N
01727	1.238	4.309	0.2743	0.1776	44	1G	Y	N
01728	1.260	4.520	0.2356	0.3570	44	3G	Y	N
01729	1.023	4.545	0.2346	0.3540	44	3G	Y	N
01730	1.370	4.399	0.2340	0.4704	45	1G	Y	N
01731	1.201	4.324	0.2328	0.4744	45	1G	Y	N
01734	2.220	7.545	0.4948	0.4598	30	1G	Y	N
01735	1.520	4.713	0.3132	0.2004	45	1G	Y	N
01736	1.732	5.465	0.2742	0.2040	45	1G	Y	N
01737	1.457	5.142	0.2738	0.2220	45	1G	Y	Y
01738S	2.220	7.550	0.4950	0.4600	30	1G	Y	N
01739	1.229	4.188	0.2335	0.1860	45	1G	N	N
01741	1.309	4.513	0.2340	0.2940	45	1G	Y	N
01742	1.130	4.614	0.2328	0.2460	45	1G	Y	Y
01743	1.735	4.787	0.2750	0.3410	45	3G	Y	N
01744	1.500	4.807	0.2740	0.3410	45	3G	Y	N
01745	1.260	3.823	0.2376	0.2390	45	1G	Y	N
01746	1.102	3.801	0.2369	0.2319	45	1G	Y	N
01750	1.573	6.887	0.3715	0.4095	29.75	1G	Y	N
01754	1.595	5.674	0.3719T	0.2470	38	1G	Y	N
01756	1.870	7.750	0.3789	0.4120	20	1G	Y	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
01757	1.870	6.160	0.3715	0.2831	30	1G	Y	N
01758	1.693	6.160	0.3704	0.2831	44	1G	Y	Y
01760S	2.020	5.350	0.3717	0.3079	30	2G	N	N
01761S	1.896	5.300	0.3717	0.2772	30	2G	Y	N
01762R	1.940	4.898	0.3415	0.2591	45	1G	Y	Y
01763R	2.020	4.898	0.3415	0.2591	45	1G	Y	Y
01764R	2.020	4.998	0.3415	0.2591	45	1G	Y	Y
01765R	2.055	4.898	0.3415	0.2591	45	1G	Y	Y
01766R	2.055	4.998	0.3415	0.2591	45	1G	Y	Y
01767R	2.080	4.898	0.3415	0.2591	45	1G	Y	Y
01768R	2.080	4.998	0.3415	0.2591	45	1G	Y	Y
01769R	1.500	4.905	0.3415T	0.2889	45	1G	Y	Y
01770R	1.600	4.905	0.3415T	0.2889	45	1G	Y	Y
01771R	1.600	5.005	0.3415T	0.2886	45	1G	Y	Y
01772R	1.625	4.905	0.3415T	0.2889	45	1G	Y	Y
01773R	2.190	5.230	0.3720	0.2201	45	1G	Y	Y
01774R	2.250	5.230	0.3720	0.2201	45	1G	Y	Y
01775R	2.300	5.230	0.3720	0.2201	45	1G	Y	Y
01776R	1.725	5.347	0.3715T	0.2201	45	1G	Y	Y
01777R	1.880	5.347	0.3715T	0.2201	45	1G	Y	Y
01780S	1.535	5.112	0.3718T	0.2759	45	2G	Y	Y
01781	1.920	5.728	0.3115	0.2555	43.5	1G	N	N
01782	1.624	5.743	0.3115T	0.2555	43.5	1G	Y	N
01783	1.741	4.838	0.3729	0.2031	45	1G	Y	N
01784	1.473	4.855	0.3718	0.2028	45	1G	Y	Y
01785	1.680	5.805	0.3122	0.3409	30	1G	Y	N
01786	1.680	5.799	0.3122	0.2909	37	1G	Y	Y
01787	1.378	4.510	0.2356	0.3571	45	3G	Y	N
01788	1.181	4.546	0.2346	0.3543	45	3G	Y	N
01789	1.861	4.840	0.2750	0.1224	45	3G	Y	N
01790	1.782	4.840	0.2750	0.1224	44.5	3G	Y	N
01791	1.461	4.845	0.2740	0.1169	45	3G	Y	N
01792	1.781	4.750	0.3419	0.2898	44	1G	Y	N
01798	1.441	5.004	0.3724	0.2035	44	1G	Y	Y
01801	1.654	5.135	0.3138	0.2950	45	1G	Y	N
01804	2.205	8.622	0.3717	0.6910	19	2G	Y	N
01805S	2.205	8.622	0.3717T	0.6910	45	2G	N	N
01806	1.840	4.880	0.3413	0.2598	45	1G	Y	N
01807	1.500	4.920	0.3413T	0.2890	45	1G	Y	Y
01807+15	1.500	4.920	0.3563T	0.2890	45	1G	Y	Y
01807S	1.500	4.920	0.3413T	0.2890	45	1G	Y	Y
01807S+15	1.500	4.920	0.3563T	0.2891	45	1G	Y	Y
01809	1.500	4.904	0.3413T	0.2890	45	1G	Y	N
01810	1.718	4.713	0.3139	0.1839	45	1G	Y	N
01811	1.425	4.736	0.3132	0.1890	45	1G	Y	Y
01814	1.500	4.600	0.3415	0.2889	45	2G	Y	Y
01826	2.000	6.428	0.4025	0.2500	30	2G	Y	N
01830S	1.771	7.250	0.3717	0.6080	30	2G	Y	N
01831S	1.646	7.250	0.3717	0.6080	45	2G	Y	N
01832SN	1.654	4.980	0.3415	0.3976	45	1G	Y	N
01832SN+15	1.654	4.980	0.3565	0.3976	45	1G	Y	N
01847S	1.870	7.726	0.3789	0.4120	45	1G	N	N
01857S	1.771	7.140	0.3717	0.4902	20	2G	N	N
01858	1.800	4.721	0.3134	0.1988	45	1G	Y	N
01862	1.654	5.081	0.3137	0.2440	20	1G	Y	Y
01875	1.780	4.750	0.3419	0.2398	45	1G	Y	N
01877	1.541	5.070	0.3414	0.4810	44	1G	Y	N
01880	1.812	4.502	0.3103	0.2902	30	1G	N	N
01881	1.602	4.502	0.3093	0.1882	45	1G	N	Y
01882	1.550	4.539	0.3093	0.1880	30	1G	Y	Y

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
01887	1.772	4.836	0.3729	0.2031	45	1G	Y	N
01889	1.830	7.716	0.3543	0.3010	30	1G	Y	N
01899	1.970	5.789	0.3124	0.2750	30	1G	Y	N
01900S	1.600	5.790	0.3112	0.2744	45	1G	Y	N
01901	1.437	4.516	0.2734	0.1766	45	3G	Y	N
01902	1.732	5.265	0.2746	0.1840	45	1G	Y	N
01903	1.457	4.980	0.2738	0.2019	45	1G	Y	Y
01904	1.791	5.021	0.3128	0.2616	45	2G	Y	N
01905	1.476	5.045	0.3116	0.2665	45	4G	Y	N
01910S	1.694	6.955	0.3725	0.4095	20	1G	Y	N
01911	1.850	7.951	0.3717	0.5622	29	2G	Y	N
01912	1.646	7.953	0.3717	0.6040	44	2G	Y	N
01913	1.811	4.524	0.2744	0.4170	45	3G	Y	N
01914	1.535	4.524	0.2734	0.5740	45	3G	Y	N
01916	1.910	4.911	0.3114	0.1335	46	3G	N	N
01916+15	1.910	4.911	0.3264	0.1335	46	3G	N	N
01917	1.500	4.939	0.3115T	0.1331	46	3G	Y	N
01917+15	1.500	4.939	0.3265T	0.1331	46	3G	Y	N
01918	1.915	4.481	0.2734	0.3724	45	3G	Y	N
01919	1.457	4.539	0.2722	0.4283	45	3G	Y	N
01920	1.331	4.257	0.2340	0.2685	45	3G	Y	N
01921	1.094	4.178	0.2329	0.2716	45	3G	Y	N
01924	1.752	4.756	0.2748	0.4980	45	3G	Y	N
01924S	1.752	4.752	0.2750	0.4990	45	3G	Y	N
01925	1.418	4.682	0.2740	0.4980	45	3G	Y	N
01925S	1.418	4.681	0.2740	0.4990	45	3G	Y	N
01929	1.760	4.684	0.3139	0.1843	45	1G	Y	N
01931	1.940	4.880	0.3413	0.2600	45	1G	Y	N
01931+15	1.940	4.880	0.3563	0.2600	45	1G	Y	N
01934	1.890	4.869	0.3136	0.2040	45	1G	Y	N
01934S	1.890	4.869	0.3136	0.2040	45	1G	Y	N
01935	1.551	4.915	0.3136	0.2070	45	1G	Y	N
01935R-155	1.550	4.915	0.3135	0.1600	45	1G	Y	Y
01935R-157	1.570	4.915	0.3135	0.1600	45	1G	Y	Y
01935R-160	1.600	4.915	0.3135	0.1600	45	1G	Y	Y
01935S	1.551	4.915	0.3136	0.2030	45	1G	Y	N
01936	1.457	5.108	0.3151	0.1770	45	3G	Y	N
01937	1.141	4.238	0.2328	0.1157	44.5	1G	Y	N
01941	1.396	4.207	0.2333	0.1130	44	1G	Y	N
01943	1.970	5.787	0.3722	0.2440	30	G3	Y	N
01944S	1.600	5.787	0.3714	0.2440	45	1G	Y	N
01945	1.786	5.992	0.3722	0.2420	30	1G	Y	N
01946S	1.786	5.992	0.3714	0.2420	45	1G	Y	N
01949	1.272	3.800	0.2349	0.2760	45	1G	Y	N
01950	1.080	3.772	0.2344	0.2780	45	1G	Y	N
01952R	1.600	4.925	0.3415	0.2500	45	1G	Y	Y
01954R	1.600	5.025	0.3415	0.2500	45	1G	Y	Y
01960R	1.880	5.420	0.3715	0.2500	45	1G	Y	Y
01961R	1.880	5.520	0.3715	0.2500	45	1G	Y	Y
01962R	1.880	5.520	0.3415	0.2500	45	1G	Y	Y
01964R	2.190	5.320	0.3715	0.2200	45	1G	Y	Y
01991	1.309	4.513	0.2340	0.1830	45	3G	Y	N
01992	1.130	4.614	0.2329	0.1360	45	3G	Y	N
01993	1.890	4.969	0.2734	0.1520	45	4G	Y	N
01994	1.398	5.023	0.2722	0.1690	45	4G	Y	N
01997	1.382	4.026	0.2347	0.2350	44.5	3G	Y	N
01998	1.457	4.149	0.2346	0.2460	44	3G	Y	Y
01999	1.201	4.246	0.2339	0.2450	44	3G	Y	Y
02000	2.000	4.869	0.3136	0.2040	45	1G	Y	N
02000R-200	2.000	4.870	0.3135	0.1600	45	1G	Y	Y

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
02000R-202	2.020	4.870	0.3135	0.1600	45	1G	Y	Y
02000R-205	2.050	4.870	0.3135	0.1600	45	1G	Y	Y
02006	1.378	4.073	0.2156	0.1840	45	1G	NR	N
02007	1.181	4.120	0.2153	0.1772	45	1G	NR	N
02008	1.370	4.399	0.2340	0.3583	45	3G	Y	N
02009	1.120	4.324	0.2329	0.3558	45	3G	Y	Y
02010	1.185	3.975	0.2343	0.2360	45	3G	Y	N
02010S	1.185	3.975	0.2343	0.2360	45	3G	Y	N
02014	1.299	4.907	0.2756	0.2990	30	1G	Y	N
02014R	1.299	4.907	0.2756	0.2990	30	1G	NR	N
02015	1.299	4.893	0.2756	0.3000	45	1G	Y	N
02016R	1.500	4.925	0.3415	0.2500	45	1G	Y	Y
02021R	2.065	5.220	0.3715	0.2200	45	1G	Y	Y
02024R	1.600	5.125	0.3415	0.2500	45	1G	Y	Y
02026R	1.940	5.025	0.3415	0.2500	45	1G	Y	Y
02029R	2.080	5.125	0.3415	0.2500	45	1G	Y	Y
02034	1.370	4.399	0.2340	0.3583	45	3G	Y	N
02035	1.120	4.324	0.2329	0.3560	45	3G	Y	N
02036	1.457	4.539	0.2722	0.4283	45	3G	Y	N
02040S	1.142	3.634	0.2340	0.1260	45	3G	Y	N
02043R	1.880	5.420	0.3415	0.2500	45	1G	Y	Y
02044	1.736	5.256	0.3163	0.2468	45	3G	Y	N
02046	1.661	4.637	0.2750	0.2217	45	3G	Y	N
02047	1.371	4.615	0.2740	0.2803	45	3G	Y	N
02053	1.426	4.408	0.2335	0.2460	45	1G	Y	N
02054	1.103	3.678	0.2335	0.2460	45	1G	Y	N
02057	1.718	4.682	0.3139	0.2142	45	1G	Y	N
02058	1.425	4.716	0.3135	0.2141	45	1G	Y	N
02059R	1.940	5.447	0.3415T	0.2200	45	1G	Y	Y
02061R	1.880	5.447	0.3415T	0.2200	45	1G	Y	Y
02062R	1.880	5.347	0.3415T	0.2200	45	1G	Y	Y
02063R	2.300	5.330	0.3415	0.2200	45	1G	Y	Y
02064R	2.250	5.330	0.3415	0.2200	45	1G	Y	Y
02084	1.484	6.238	0.4025T	0.2500	45	1G	N	N
02095	1.573	6.992	0.3715	0.5095	30	1G	Y	N
02101	2.187	5.224	0.3717	0.2160	45	1G	Y	N
02103	2.000	4.929	0.3127	0.1535	45	3G	Y	N
02118	1.331	4.618	0.2356	0.3460	44.5	3G	Y	N
02118S	1.331	4.618	0.2356	0.3460	45	3G	Y	N
02119	1.479	4.583	0.2345	0.4130	44.5	3G	Y	N
02119S	1.479	4.583	0.2345	0.4130	44.5	3G	Y	N
02126S	1.720	5.395	0.3711	0.2181	45	1G	Y	N
02131	1.970	5.992	0.3722	0.2440	30	1G	Y	N
02160S	1.693	7.839	0.3717	0.2500	45	2G	Y	N
02161S	1.575	7.209	0.3150	0.4330	30	1G	Y	N
02166	1.594	5.205	0.3724	0.2250	45	1G	N	N
02167	1.845	5.215	0.3734	0.2200	45	1G	N	N
02168S	2.205	8.622	0.4950	0.7440	45	1G	Y	N
02172	1.760	4.684	0.3138	0.1840	45	1G	Y	N
02173	1.425	4.757	0.3132	0.1900	45	1G	Y	N
02175	1.299	4.975	0.2738	0.5210	45	1G	NR	N
02175R	1.299	4.975	0.2739	0.5210	45	1G	NR	N
02176	1.220	4.963	0.2730	0.5200	45	1G	NR	N
02176R	1.220	4.963	0.2730	0.5200	45	1G	NR	N
02177	1.339	4.392	0.2153	0.2620	45	1G	NR	N
02178S	1.142	4.398	0.2150	0.2510	45	1G	NR	N
02179	1.339	5.058	0.2737	0.3571	30	1G	Y	N
02179R	1.339	5.058	0.2737	0.3571	30	1G	NR	N
02180	1.102	5.059	0.2737	0.3598	37.5	1G	Y	N
02180R	1.102	5.059	0.2737	0.3598	37.5	1G	NR	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
02181	1.441	3.912	0.2744	0.1980	45	1G	NR	N
02182S	1.230	3.813	0.2736	0.1952	45	1G	NR	N
02187	1.496	5.424	0.3138	0.3358	45	1G	Y	N
02188	1.496	5.423	0.3138	0.3350	30	1G	Y	N
02192	1.378	3.999	0.1955	0.4370	45	1G	NR	N
02193	1.215	3.989	0.1952	0.4350	45	1G	NR	N
02194	1.094	3.798	0.2154	0.1340	45	1G	NR	N
02195	0.980	3.764	0.2141	0.1320	45	1G	NR	N
02196	1.240	4.052	0.2352	0.1700	45	1G	NR	N
02197	1.063	3.993	0.2352	0.1437	45	1G	NR	N
02220	1.555	4.845	0.3126	0.1535	45	3G	Y	N
02231	1.850	6.971	0.3150	0.2840	29	1G	N	N
02234	1.189	4.095	0.2740	0.1181	45	1G	NR	N
02235	1.120	4.108	0.2740	0.1201	45.5	1G	NR	N
02237	1.969	5.549	0.3523	0.4508	45	1G	NR	N
02238	1.654	5.537	0.3516	0.4504	45	1G	NR	Y
02239	1.830	5.551	0.3522	0.4520	30	1G	NR	N
02240	1.004	3.461	0.1957	0.1378	45	1G	NR	N
02241	1.205	3.514	0.1957	0.1398	45	1G	NR	N
02243	1.384	4.319	0.2745	0.1970	45	1G	NR	N
02244	1.185	4.299	0.2735	0.1790	45	1G	NR	Y
02245	1.378	3.640	0.2156	0.1180	45	1G	NR	N
02246	1.185	3.614	0.2153	0.1180	45	1G	NR	N
02247	1.124	3.999	0.2345	0.1740	45	1G	Y	N
02248S	1.073	3.982	0.2337	0.1730	45	1G	Y	N
02249	1.193	4.032	0.2345	0.1740	45	1G	Y	N
02250S	1.021	4.014	0.2337	0.1730	45	1G	Y	N
02254	1.811	5.942	0.3736	0.2220	20	1G	Y	N
02254S	1.811	5.942	0.3736	0.2220	20	1G	Y	N
02255	2.047	5.952	0.3736	0.2222	20	1G	Y	N
02255S	2.047	5.952	0.3736	0.2222	20	1G	Y	N
02257	1.772	5.085	0.3138	0.2360	20	1G	Y	N
02258S	1.646	7.621	0.3717	0.4900	19.25	2G	Y	N
02259S	1.771	7.621	0.3717	0.4900	19.25	2G	N	N
02260S	1.417	7.264	0.3717	0.6142	24	2G	Y	N
02261	1.417	7.205	0.3717	0.6150	45	2G	Y	N
02262	1.870	8.503	0.3789	0.4669	20	1G	Y	N
02263S	1.790	8.810	0.3789	0.7579	45	1G	Y	N
02265	1.476	4.583	0.2346	0.4134	45	3G	Y	N
02267	2.000	4.869	0.3136	0.2040	45	1G	Y	N
05000	1.772	4.839	0.3730	0.2031	30	1G	Y	N
05001	1.693	4.837	0.3526	0.2200	45	1G	Y	N
05002S	1.620	4.842	0.3524	0.2200	45	1G	Y	N
05003	1.772	4.886	0.3529	0.2200	45	1G	Y	N
05004	1.654	4.890	0.3524	0.2185	45	1G	Y	N
10015	1.648	4.583	0.3139	0.1190	44	1G	Y	N
10030	1.382	4.094	0.3139	0.1570	45	1G	Y	N
10031	1.462	4.089	0.3141	0.1590	45	1G	Y	N
10034S	1.140	4.083	0.3130	0.1570	44	1G	N	N
10036S	1.382	4.619	0.3131	0.1220	45	1G	Y	N
10037	1.419	4.483	0.3139	0.1831	45	1G	Y	N
10048	1.692	4.543	0.3142	0.1831	45	1G	N	N
10056	1.738	4.580	0.3138	0.1130	45	1G	Y	N
10060S	1.297	4.206	0.3162	0.2209	45	1G	Y	N
10061	1.656	4.258	0.3161	0.3369	45	1G	N	N
10064	1.376	4.394	0.3124	0.1240	45	1G	N	N
10065	1.689	4.432	0.3140	0.1280	45	1G	N	N
10069	1.478	4.922	0.3140	0.1831	45	3G	Y	N
10070	1.811	4.917	0.3142	0.1748	45	3G	N	N
10076	1.488	4.158	0.3140	0.1080	45	1G	NR	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
10078	1.378	4.445	0.2594	0.1970	45	1G	N	N
10083	1.220	4.028	0.3126	0.1180	45	1G	NR	N
10087	1.673	4.315	0.3130	0.1402	45	1G	Y	N
10102S	1.181	4.510	0.2738	0.3000	45	1G	Y	Y
10103	1.417	4.550	0.2738	0.3080	45	1G	Y	N
10104	1.220	4.140	0.2740	0.1799	45	1G	Y	Y
10105	1.415	4.140	0.2742	0.1799	45	1G	Y	N
10106	1.220	4.212	0.2745	0.2360	44	1G	Y	Y
10107	1.417	4.212	0.2746	0.2362	44	1G	Y	N
10116	1.437	4.095	0.2750	0.1642	44	1G	Y	N
10117	1.692	4.085	0.2760	0.1598	44	1G	Y	N
10118	1.261	4.144	0.2745	0.1961	45	1G	Y	N
10122	1.217	4.157	0.2591	0.2067	45	1G	Y	N
10123	1.084	4.201	0.2578	0.1803	45	1G	Y	N
10126A	1.339	4.317	0.2587	0.2000	45	1G	NR	N
10126R	1.378	4.317	0.2587	0.2000	45	1G	Y	N
10127	1.496	4.070	0.3135	0.1575	45	1G	NR	N
10128A	1.201	4.319	0.2575	0.2000	45	1G	NR	N
10128R	1.221	4.319	0.2575	0.2000	45	1G	Y	N
10129	1.220	3.936	0.3125	0.1622	45	1G	NR	N
10137	1.122	3.681	0.2353	0.1835	45	1G	Y	N
10138	0.965	3.699	0.2351	0.1783	45	1G	Y	N
10141	1.693	4.323	0.3136	0.1390	45	1G	Y	N
10142	1.378	4.277	0.3126	0.1386	45	1G	Y	N
10143	1.811	4.195	0.3137	0.1378	45	1G	Y	N
10144	1.496	4.141	0.3126	0.1390	45	1G	Y	N
10145	1.810	4.250	0.3134	0.1528	45	1G	Y	N
10146	1.493	4.170	0.3125	0.1772	45	1G	Y	N
10146S	1.493	4.170	0.3125	0.1772	45	1G	Y	N
10147	1.693	4.024	0.3137	0.1390	45	1G	Y	N
10148	1.378	4.012	0.3126	0.1386	45	1G	Y	N
10153	1.103	4.120	0.2735	0.2150	45	1G	Y	Y
10157	1.220	4.148	0.2354	0.1689	45	1G	Y	N
10159	1.031	4.150	0.2350	0.1690	45	1G	Y	N
10162	1.280	4.559	0.2747	0.3138	45	1G	Y	N
10163	1.339	4.575	0.2745	0.3154	45	1G	Y	N
10164	1.339	4.575	0.2745	0.3100	45	1G	Y	N
10169	1.378	3.313	0.2151	0.2010	45	1G	Y	N
10170	1.102	3.311	0.2144	0.2030	45	1G	Y	N
10172	1.441	4.550	0.2744	0.3110	45	1G	Y	N
10176	1.201	3.924	0.2354	0.1799	45	1G	Y	N
10177	1.004	3.926	0.2352	0.1843	45	1G	Y	N
10190	1.142	4.526	0.2159	0.1970	45	1G	Y	N
10191	0.984	4.675	0.2148	0.2080	45	1G	Y	N
10192	1.180	4.747	0.2591	0.2500	45	1G	Y	N
10193	1.376	4.762	0.2730	0.2350	45	1G	Y	N
10195	1.299	4.110	0.2594	0.2094	45	1G	Y	N
10196	1.102	4.171	0.2580	0.2055	45	1G	Y	N
10197A	1.339	4.411	0.2161	0.1160	45	1G	NR	N
10198A	1.142	4.862	0.2148	0.2010	45	1G	NR	N
10206	1.339	4.080	0.2592	0.1992	45	1G	Y	N
10207	1.142	4.044	0.2579	0.1965	45	1G	Y	N
10213	1.646	4.085	0.2760	0.1600	44	1G	Y	N
10214	1.496	4.561	0.3132	0.1732	45	1G	NR	N
10215S	1.260	4.561	0.3121	0.1795	45	1G	NR	N
10216	1.575	4.560	0.3125	0.1783	45	1G	Y	N
10217	1.339	4.560	0.3115	0.1783	45	1G	Y	Y
10218	1.663	4.357	0.3130	0.1382	45	1G	Y	N
10220S	1.413	4.340	0.3123	0.1390	45	1G	Y	N
10221S	1.453	4.260	0.3123	0.1390	45	1G	Y	Y

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
10224	1.181	3.632	0.2153	0.1500	45	1G	NR	N
10226	1.441	3.989	0.2743	0.2106	45	1G	Y	N
10227S	1.232	3.892	0.2736	0.2138	45	1G	Y	N
10228	1.339	3.991	0.2352	0.1870	45	1G	Y	N
10229	1.181	4.028	0.2343	0.1874	45	1G	Y	Y
10234	1.298	3.990	0.2352	0.1701	45	1G	Y	N
10235	1.103	3.997	0.2350	0.1693	45	1G	Y	N
10236	1.732	4.405	0.3164	0.2476	45	1G	Y	N
10237	1.417	4.397	0.3162	0.2492	45	1G	Y	N
10243	1.312	4.435	0.2746	0.1909	45	1G	Y	N
10244	1.417	4.482	0.2743	0.1917	45	1G	Y	N
10247	1.366	4.536	0.2350	0.3201	45	1G	Y	N
10248	1.217	4.747	0.2350	0.3189	45	1G	Y	N
10255	1.460	4.586	0.2744	0.2030	45	1G	Y	N
10256	1.185	4.569	0.2735	0.1360	45	1G	Y	N
10268	1.658	4.899	0.3140	0.2228	45	1G	Y	N
10269	1.500	4.940	0.3130	0.2291	45	1G	Y	Y
10270	1.617	4.224	0.2744	0.2287	45	1G	Y	N
10271	1.381	4.261	0.2737	0.2319	45	1G	Y	Y
10273	1.339	4.780	0.2745	0.2311	45	1G	Y	N
10274S	1.575	4.820	0.3130	0.2295	45	1G	Y	Y
10275	1.575	4.609	0.3140	0.1862	45	1G	NR	N
10276S	1.339	4.606	0.3131	0.1854	45	1G	NR	N
10281	1.657	4.945	0.2744	0.1748	45	1G	Y	N
10282	1.382	4.901	0.3137	0.1728	45	1G	Y	Y
10282S	1.382	4.901	0.3137	0.1728	45	1G	Y	N
10284	1.339	4.060	0.2354	0.1780	45	1G	Y	N
10285S	1.164	4.081	0.2343	0.1799	45	1G	Y	N
10288	1.496	4.609	0.3138	0.1834	45	1G	NR	N
10289S	1.260	4.605	0.3130	0.1815	45	1G	NR	Y
10299	1.280	3.976	0.2344	0.1819	45	1G	Y	N
10300	1.102	3.983	0.2344	0.1827	45	1G	Y	N
10302	1.181	4.509	0.2736	0.3067	45	1G	Y	Y
10305	1.339	3.743	0.2353	0.1815	45	1G	Y	N
10306S	1.073	3.727	0.2352	0.1846	45	1G	Y	N
10307	1.417	3.933	0.3137	0.1618	45	1G	NR	N
10308	1.142	3.934	0.3137	0.1630	45	1G	NR	Y
10309	0.945	3.612	0.2354	0.2917	45	1G	Y	N
10310	1.181	3.635	0.2349	0.2661	45	1G	Y	N
10311	1.220	3.636	0.2352	0.2717	45	1G	Y	N
10314	1.181	3.597	0.2353	0.1787	45	1G	Y	N
10315	0.967	3.618	0.2353	0.1799	45	1G	Y	N
10321	1.476	4.073	0.2352	0.1799	45	1G	Y	N
10322	1.575	4.262	0.3140	0.2787	45	1G	Y	N
10323	1.417	4.272	0.3140	0.2811	45	1G	Y	Y
10328A	1.770	4.494	0.3134	0.1878	45	1G	NR	N
10330A	1.457	4.420	0.3138	0.1890	45	1G	NR	N
10337	1.260	3.860	0.2350	0.2039	45	1G	Y	N
10338S	1.083	3.862	0.2350	0.2004	45	1G	Y	N
10339SA	1.654	4.101	0.3140	0.2598	45	1G	NR	N
10340A	1.378	4.103	0.3140	0.2610	45	1G	NR	Y
10342S	1.476	5.047	0.3130	0.2319	45	1G	Y	Y
10348	1.570	4.819	0.3134	0.1850	45	3G	N	N
10349S	1.334	4.829	0.3509	0.1874	45	3G	Y	N
10367	1.337	4.124	0.3138	0.1181	45	3G	N	N
10370S	1.227	4.116	0.3127	0.1102	45	3G	N	N
10373	1.651	4.035	0.2743	0.1600	45	3G	Y	N
10374S	1.415	4.035	0.2737	0.1610	45	3G	Y	N
10385	1.656	4.134	0.3163	0.2051	45	1G	Y	N
10385+15	1.656	4.134	0.3313	0.2051	45	1G	Y	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
10386	1.418	4.138	0.3153	0.1831	45	3G	Y	N
10386+15	1.418	4.138	0.3303	0.1831	45	3G	Y	N
10387	1.712	4.089	0.3163	0.2067	44.5	1G	Y	N
10387+15	1.713	4.094	0.3313	0.2071	45	1G	Y	N
10388	1.358	4.098	0.3153	0.1850	45	3G	Y	N
10388+15	1.358	4.098	0.3303	0.1850	45	3G	Y	N
10406	1.732	4.350	0.3135	0.1929	45	3G	Y	N
10413	1.299	4.481	0.2583	0.1701	45	1G	Y	N
10414	1.102	4.132	0.2580	0.2055	45	1G	Y	N
10420	1.063	3.876	0.2351	0.1810	44	1G	NR	N
10421	1.260	3.843	0.2353	0.1803	44	1G	NR	N
10432	1.260	4.411	0.2161	0.1165	45	1G	Y	N
10434	1.299	4.033	0.2157	0.1270	45	1G	Y	N
10435	1.103	4.037	0.2148	0.1240	45	1G	Y	N
10436	1.299	4.518	0.2157	0.1790	45	1G	Y	N
10437	1.104	4.635	0.2146	0.2213	45	1G	Y	N
10473	1.417	4.073	0.2353	0.1803	45	1G	Y	N
10474	1.201	4.091	0.2351	0.1780	45	1G	Y	N
10495	1.023	3.971	0.2585	0.1638	45	1G	Y	N
10496	1.220	3.969	0.2584	0.1642	45	1G	Y	N
10497	1.299	3.981	0.2576	0.1650	45	1G	Y	N
10498	1.181	4.338	0.2354	0.2524	45	1G	Y	N
10499	1.063	4.480	0.2345	0.2531	45	1G	Y	N
10500	1.375	4.186	0.2588	0.2016	45	1G	Y	N
10501	1.200	4.153	0.2576	0.2030	45	1G	Y	N
10502	1.339	3.898	0.2348	0.1626	45	1G	Y	N
10503	1.181	3.955	0.2347	0.1606	45	1G	Y	Y
10506	1.221	3.445	0.2354	0.1811	45	1G	Y	N
10507	0.965	3.466	0.2351	0.1811	45	1G	Y	N
10516	1.149	3.630	0.2154	0.2220	45	1G	Y	N
10517	0.986	3.147	0.2144	0.2250	45	1G	Y	Y
10518	1.319	3.882	0.2354	0.1811	45	1G	Y	N
10520	1.272	3.996	0.2738	0.1910	45	1G	Y	N
10521	1.081	3.967	0.2732	0.1950	45	1G	Y	N
10522	1.575	5.469	0.2737	0.2374	45	1G	Y	N
10523	1.339	5.475	0.2730	0.2417	45	1G	Y	N
10524	1.181	4.668	0.2159	0.1180	45	1G	NR	N
10525	1.023	4.565	0.2148	0.1180	45	1G	NR	N
10534A	1.299	4.424	0.2348	0.2516	45	1G	NR	N
10535A	1.142	4.497	0.2344	0.2504	45	1G	NR	N
10536	0.984	3.646	0.2146	0.1512	45	1G	NR	N
10537	1.417	3.840	0.2350	0.1835	44	1G	Y	N
10538	1.232	3.744	0.2343	0.1819	44	1G	Y	N
10541	1.339	4.567	0.2161	0.1752	45	1G	NR	N
10542	1.142	4.496	0.2148	0.1752	45	1G	NR	N
10543	1.378	4.201	0.2155	0.1240	45	1G	Y	N
10544	1.181	4.210	0.2153	0.1240	45	1G	Y	N
10546	1.142	4.920	0.2148	0.2059	45	1G	Y	N
10547	1.079	3.898	0.2348	0.1968	45	1G	Y	N
10548	1.260	3.906	0.2340	0.2401	45	1G	Y	N
10549	1.260	3.870	0.2344	0.2102	45	1G	Y	N
10552	1.339	3.758	0.2157	0.1421	45	1G	Y	N
10553S	1.073	3.755	0.2155	0.1398	44.5	1G	Y	N
10554S	1.555	3.616	0.2742	0.1560	45	3G	N	N
10555S	1.295	3.589	0.2734	0.1260	45	3G	N	N
10556	1.535	4.171	0.2742	0.1180	45	3G	Y	N
10562	1.240	3.534	0.2350	0.1705	45	1G	Y	N
10563	1.089	3.543	0.2354	0.1705	45	1G	Y	N
10624	1.693	4.054	0.3137	0.1390	45	1G	Y	N
10625	1.378	4.042	0.3126	0.1390	45	1G	Y	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
10695	1.299	4.177	0.2349	0.1720	45	3G	Y	N
10696S	1.198	4.160	0.2343	0.1710	45	3G	Y	N
10723	1.257	4.031	0.2349	0.2770	45	1G	Y	N
10724	1.081	4.126	0.2339	0.2210	45	1G	Y	N
10725	1.772	5.034	0.3524	0.2260	45	1G	Y	Y
10726	1.476	5.030	0.3513	0.2236	45	1G	Y	N
10728S	1.476	5.028	0.3514	0.2258	45	1G	Y	N
10731	1.415	3.813	0.2741	0.1342	45	3G	Y	N
10732S	1.238	3.813	0.2733	0.1338	45	3G	Y	N
10733	1.555	3.616	0.2748	0.1359	45	3G	Y	N
10734S	1.295	3.589	0.2742	0.1080	45	3G	Y	N
10735	1.260	3.485	0.2155	0.1340	45	1G	Y	N
10736	1.081	3.491	0.2154	0.1340	45	1G	Y	N
10739	1.338	4.088	0.2347	0.1460	45	1G	Y	N
10740	1.142	4.073	0.2344	0.1470	45	1G	Y	N
10742	1.224	4.152	0.2592	0.2120	45	1G	Y	N
10744	1.553	4.429	0.3161	0.2783	45	1G	Y	N
10745	1.181	4.428	0.3152	0.2653	45	1G	Y	N
10748	1.492	4.318	0.3417	0.2000	45	1G	Y	N
10749	1.260	4.313	0.3410	0.1886	45	1G	Y	N
10750	1.492	4.320	0.3421	0.3913	45	1G	Y	N
10751	1.254	4.308	0.3422	0.3930	45	1G	Y	N
10752	1.653	4.345	0.3401	0.2170	45	1G	N	N
10753	1.260	4.355	0.3397	0.2100	45	1G	N	N
10754	1.692	4.318	0.3330	0.2823	45	2G	Y	N
10756	1.689	4.312	0.3330	0.1840	45	1G	Y	N
10757	1.453	4.331	0.3330	0.1850	45	1G	Y	N
10758	1.493	4.074	0.3137	0.3059	45	2G	Y	N
10759	1.168	4.086	0.3132	0.3118	45	1G	Y	N
10760	1.496	4.072	0.3136	0.1807	45	1G	Y	N
10761	1.781	4.072	0.3139	0.1771	45	1G	Y	N
10762	1.652	4.753	0.3532	0.1680	46	1G	NR	N
10763	1.370	4.748	0.3530	0.1650	46	1G	NR	N
10766	1.689	5.748	0.3921	0.2400	45	1G	Y	N
10767S	1.610	5.748	0.3913	0.2400	45	1G	Y	N
10768	1.732	4.630	0.3531	0.1398	45	1G	N	N
10769	1.319	4.685	0.3524	0.1398	45	1G	N	Y
10770	1.535	4.567	0.3134	0.1299	45	1G	NR	N
10771	1.300	4.567	0.3130	0.1299	45	1G	NR	Y
10772	1.575	4.291	0.3138	0.1299	45	1G	NR	N
10773	1.338	4.291	0.3130	0.1299	45	1G	NR	Y
10778	1.378	4.567	0.2160	0.1815	45	1G	NR	N
10779	1.181	4.496	0.2148	0.1815	45	1G	NR	N
10780	1.220	3.490	0.2156	0.1350	45	1G	NR	N
10781	1.024	3.492	0.2155	0.1350	45	1G	NR	N
10784	1.260	4.020	0.2347	0.1260	45	3G	Y	N
10786	1.297	3.394	0.2349	0.1775	45	1G	Y	N
10787S	1.102	3.379	0.2339	0.1750	45	1G	Y	N
10788S	1.299	4.014	0.2351	0.2018	45	1G	Y	N
10792	1.441	3.986	0.2745	0.1930	45	1G	NR	N
10793S	1.232	3.889	0.2740	0.1920	45	1G	NR	N
10794	1.339	3.872	0.2350	0.1819	45	1G	NR	N
10795	1.181	3.909	0.2340	0.1840	45	1G	NR	N
10798	1.339	4.004	0.2155	0.1402	45	1G	NR	N
10799	1.161	3.982	0.2155	0.1350	45	1G	NR	N
10803S	1.177	4.090	0.2340	0.1570	45	3G	Y	N
10804S	1.059	4.137	0.2348	0.2220	45	3G	Y	N
10805S	1.177	4.090	0.2340	0.2220	45	3G	Y	N
10806	1.417	4.748	0.2344	0.1950	45	1G	NR	N
10807	1.239	4.791	0.2343	0.1898	45	1G	NR	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
10808	1.260	3.781	0.2350	0.1950	45	1G	NR	N
10809	1.083	3.823	0.2345	0.2165	45	1G	NR	N
10810	1.378	4.183	0.2585	0.2027	45	1G	NR	N
10811	1.201	4.150	0.2574	0.2010	45	1G	NR	N
10812	1.110	3.614	0.2345	0.2030	45	1G	NR	N
10813	0.984	3.638	0.2342	0.2010	45	1G	NR	N
10814	1.327	4.061	0.2352	0.1440	45	1G	NR	N
10815	1.140	4.093	0.2350	0.1440	45	1G	NR	N
10816	1.257	4.502	0.2349	0.2720	45	1G	NR	N
10817	1.081	4.598	0.2339	0.2205	45	1G	NR	N
13000	1.732	8.498	0.3435	0.5949	30	1G	Y	N
13001	1.556	8.497	0.3429	0.6150	30	1G	Y	N
13001S	1.556	8.497	0.3429	0.6150	30	1G	Y	N
13002	1.564	5.826	0.3121	0.4681	30	1G	Y	N
13003	1.439	5.811	0.3113	0.4681	45	1G	Y	N
13006	1.299	4.893	0.2756	0.3000	45	1G	Y	N
13006R	1.299	4.893	0.2756	0.3000	45	1G	NR	N
13013	1.830	4.724	0.3133	0.2000	45	1G	Y	N
13016	1.652	4.966	0.3404	0.3594	30	2G	N	N
13017	1.357	4.961	0.3404	0.3602	45	1G	N	N
13018	1.652	5.377	0.3404	0.3575	30	2G	N	N
13019	1.357	5.373	0.3404	0.3578	45	1G	N	N
13021	1.084	3.532	0.2742	0.3779	45	1G	NR	N
13022	1.299	3.980	0.3134	0.2795	45	1G	NR	N
13023	1.063	3.980	0.3134	0.2795	45	1G	NR	N
13024	1.320	4.020	0.3135	0.2952	30	1G	NR	N
13025	1.122	4.023	0.3134	0.2952	45	1G	NR	N
13028	1.122	4.023	0.3135	0.2953	45	1G	NR	N
13032	1.756	7.417	0.3715	0.5677	30	2G	Y	N
13033	1.634	7.362	0.3717	0.5953	45	2G	Y	N
13038	1.150	3.783	0.2154	0.1358	45	1G	NR	N
13039	1.015	3.740	0.2143	0.1330	45	1G	NR	N
13040	2.165	4.870	0.3135	0.2040	45	1G	Y	N
13042	1.587	4.914	0.3136	0.2040	45	1G	Y	Y
13043	1.870	4.835	0.3136	0.2040	45	1G	Y	N
13044	1.523	4.803	0.3135	0.2040	45	1G	Y	Y
13046	1.323	4.252	0.2343	0.2460	44	3G	Y	N
13047	1.146	3.614	0.2345	0.2030	45	1G	NR	N
13051	1.654	5.236	0.3130	0.1968	30	1G	Y	N
13052	1.382	5.236	0.3130	0.1968	30	1G	Y	N
13053	1.220	4.646	0.3121	0.1968	44.5	1G	Y	N
13054	1.654	5.236	0.3129	0.1968	44.5	1G	Y	N
13055	1.673	4.656	0.3157	0.1693	30	1G	N	N
13056	1.398	4.409	0.3150	0.1614	45	1G	N	N
13057	1.850	5.096	0.3532	0.1905	30	1G	NR	N
13058	1.712	4.609	0.3138	0.1402	45	1G	NR	N
13059	1.496	4.609	0.3131	0.1835	45	1G	NR	N
13060	1.413	4.075	0.3139	0.1811	45	2G	NR	N
13061	1.476	4.509	0.3161	0.2716	30	1G	N	N
13062S	1.181	4.509	0.3152	0.2716	45	1G	Y	N
13063	1.732	4.725	0.3129	0.1969	29.75	1G	NR	N
13064	1.380	4.725	0.3129	0.1969	29.75	1G	NR	N
13065	1.854	4.657	0.3139	0.1970	45	1G	NR	N
13066	1.500	4.676	0.3130	0.1970	45	1G	NR	N
13068	1.594	4.746	0.3535	0.1370	44.5	1G	NR	N
13069	1.320	4.741	0.3527	0.1370	44.5	1G	NR	N
13070	1.169	4.076	0.3134	0.1811	44	2G	NR	N
13073	1.130	4.095	0.2740	0.1181	45	1G	NR	N
13074	1.032	4.114	0.2740	0.1181	45	1G	NR	N
13077	1.405	3.826	0.2351	0.1851	45	1G	NR	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
13078	1.206	3.891	0.2347	0.1851	45	1G	NR	N
13079	1.405	3.815	0.2349	0.1515	45	1G	NR	N
13080	1.206	3.856	0.2347	0.1535	45	1G	NR	N
13081	1.456	3.988	0.2346	0.3327	44.75	1G	Y	N
13082	1.205	3.824	0.2343	0.3327	44.75	1G	Y	Y
13083S	1.732	8.498	0.3435	0.5949	30	1G	Y	N
13084	1.503	3.909	0.2745	0.1397	45	1G	NR	N
13085	1.267	3.909	0.2735	0.1397	45	1G	NR	N
13086	1.496	4.165	0.2156	0.2618	45	1G	NR	N
13087	1.260	4.345	0.2155	0.2618	45	1G	NR	N
13088	1.437	4.210	0.2157	0.1338	45	1G	NR	N
13089S	1.161	4.165	0.2155	0.1339	45	1G	NR	N
13091	1.884	5.608	0.3520	0.2303	30	1G	Y	N
13092	1.624	5.578	0.3520	0.2500	45	1G	Y	N
13093	2.125	5.705	0.3912	0.2480	30	1G	Y	N
13094S	1.886	5.669	0.3907	0.2106	45	1G	Y	N
13095	1.791	4.872	0.3526	0.2185	30	1G	NR	N
13096	1.575	4.840	0.3518	0.2185	45	1G	NR	N
13097	1.884	5.294	0.3522	0.2303	30	1G	Y	N
13098	1.624	5.283	0.3522	0.2283	45	1G	Y	N
13099	1.412	4.602	0.3125	0.2126	45	2G	N	N
13100	1.190	4.608	0.3122	0.2066	45	1G	N	N
13101	1.534	4.499	0.3115	0.1800	45	1G	N	N
13102S	1.318	4.665	0.3115	0.1800	45	1G	Y	N
13103	1.535	4.500	0.3114	0.1811	35	1G	Y	N
13105	1.328	4.333	0.3410	0.2559	30	2G	N	N
13106S	1.203	4.358	0.3388	0.2315	44.5	1G	N	N
13111	1.440	4.855	0.3718	0.2035	45	1G	Y	N
13112	1.315	4.500	0.3114	0.1800	35	1G	N	N
13115	1.811	5.030	0.3526	0.2244	45	1G	NR	N
13117	1.929	5.275	0.3912	0.2421	30	1G	NR	N
13118S	1.815	5.193	0.3905	0.2389	45	1G	NR	Y
13120	1.476	5.030	0.3513	0.2236	45	1G	NR	N
13121	1.457	5.140	0.3130	0.4173	29.5	1G	NR	N
13122	1.456	5.128	0.3120	0.4173	45	1G	NR	N
13134S	1.496	5.119	0.3520	0.1905	45	1G	NR	N
13135	1.740	4.838	0.3729	0.2031	30	1G	Y	N
13136	1.693	4.842	0.3527	0.2204	30	1G	Y	N
13137	1.823	5.086	0.3529	0.2381	29.5	1G	NR	N
13138	1.634	5.086	0.3518	0.2381	29.5	1G	NR	N
13139S	1.417	4.169	0.2346	0.2519	45	1G	NR	N
13140S	1.260	4.181	0.2342	0.2540	45	1G	NR	N
13141	1.735	4.191	0.2747	0.1476	44.5	3G	Y	N
13142	1.465	4.185	0.2736	0.1476	44.5	3G	Y	N
13143	1.735	4.191	0.2747	0.1476	44.5	3G	Y	N
13151	1.756	7.417	0.3715	0.5677	30	2G	Y	N
13161	1.299	4.893	0.2756	0.3000	45	1G	Y	N
13162	1.496	5.423	0.3138	0.3350	30	1G	Y	N
13163	1.496	5.424	0.3138	0.3358	45	1G	Y	N
13168	1.646	4.085	0.2760	0.1598	44	1G	NR	N
13169S	1.437	4.095	0.2750	0.1543	44	1G	NR	N
13172	1.378	4.291	0.2157	0.1220	45	1G	NR	N
13173	1.181	4.280	0.2148	0.1220	45	1G	NR	N
13174	1.398	3.497	0.2748	0.0866	49.9	3G	N	N
13176	1.732	7.717	0.3543	0.3012	29.5	1G	Y	N
13177S	1.575	6.398	0.3142	0.3543	29	1G	Y	N
13178S	1.575	6.398	0.3142	0.3543	29	1G	Y	N
13179	1.525	4.165	0.2347	0.2460	44	3G	Y	N
13182	1.339	5.138	0.2738	0.4366	37	1G	Y	N
13182R	1.339	5.138	0.2738	0.4366	37	1G	NR	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
13183	1.161	5.138	0.2738	0.4366	39.5	1G	Y	N
13183R	1.162	5.138	0.2738	0.4366	39.5	1G	NR	N
13190	1.378	4.456	0.2154	0.2024	44.5	1G	Y	N
13191	1.142	4.169	0.2151	0.1236	44.5	1G	Y	N
13192S	1.535	7.264	0.3150	0.4583	29.5	1G	Y	N
13193	1.417	7.269	0.3717	0.6141	44.25	2G	Y	N
13194	2.050	5.165	0.3127	0.1508	44.5	3G	Y	N
13195	1.552	5.139	0.3126	0.1504	45	3G	Y	N
13197	1.299	3.685	0.2350	0.1771	44.5	1G	NR	N
13198	1.102	3.673	0.2341	0.1771	44.5	1G	NR	N
13199	1.338	4.385	0.2350	0.2118	45	1G	NR	N
13200	1.200	4.472	0.2345	0.2118	45	1G	NR	N
13201	1.417	4.110	0.2345	0.1693	45	1G	NR	N
13203S	1.260	4.120	0.2343	0.1693	45	1G	NR	N
13204	1.386	3.984	0.2348	0.3327	45	1G	NR	N
13205	1.205	3.824	0.2344	0.3327	45	1G	NR	N
13206	2.079	4.961	0.3125	0.1535	44.5	3G	Y	N
13207	1.595	4.921	0.3125	0.1535	44.5	3G	Y	N
13208	1.476	4.185	0.2156	0.2578	44.5	1G	NR	N
13209	1.240	4.202	0.2154	0.2559	44.5	1G	NR	N
13210	1.457	3.988	0.2348	0.3327	45	1G	NR	N
13211	1.384	3.985	0.2348	0.3307	44.25	1G	NR	N
13212	1.205	3.748	0.2344	0.3307	44.25	1G	NR	Y
13213	1.337	4.185	0.2154	0.2165	45	1G	NR	N
13214	1.093	4.145	0.2151	0.2311	44.5	1G	NR	N
13219	1.616	4.843	0.3524	0.2165	30	1G	Y	N
13220	1.449	3.825	0.2352	0.1890	45	1G	NR	N
13221	1.195	3.730	0.2349	0.1890	45	1G	NR	N
13222	1.191	4.311	0.2340	0.2027	45	3G	Y	N
13223	0.915	4.659	0.2329	0.2028	45	3G	Y	N
13225	1.457	3.841	0.2160	0.1830	44.5	1G	NR	N
13226	1.220	3.756	0.2155	0.1831	44.5	1G	NR	N
13230	1.142	3.827	0.2343	0.3327	44.5	1G	NR	N
13233	1.226	4.006	0.1957	0.1654	44.5	1G	NR	N
13234	1.002	4.035	0.1954	0.1634	44.5	1G	NR	N
13237	1.463	3.798	0.2351	0.1909	44.5	1G	NR	N
13238	1.234	3.700	0.2348	0.1909	44.5	1G	NR	N
13239	2.165	4.890	0.3135	0.2248	45	1G	Y	N
13240	2.165	4.870	0.3135	0.2040	45	1G	NR	N
13241S	1.589	4.914	0.3136	0.2040	45	1G	Y	N
13243	1.142	3.678	0.2335	0.2460	45	1G	Y	N
13244	2.000	4.870	0.3135	0.2040	45	1G	NR	N
13246	1.457	5.337	0.2756	0.2657	29	1G	Y	N
13251	1.915	4.481	0.2734	0.2933	44.5	3G	Y	N
13252	1.457	4.539	0.2722	0.3890	44.5	3G	Y	N
13255	1.378	4.456	0.2154	0.2024	44.5	1G	NR	N
13256	1.142	4.169	0.2151	0.1236	44.5	1G	NR	N
13257	1.378	4.075	0.2151	0.1772	45	1G	NR	N
13258	1.201	4.063	0.2148	0.1772	45	1G	NR	N
13259	1.378	3.925	0.2151	0.7933	45	1G	NR	N
13260	1.201	4.142	0.2147	0.1791	45	1G	NR	N
13261	1.417	4.075	0.2150	0.1693	45	1G	NR	N
13262	1.260	4.063	0.2147	0.1673	45	1G	NR	N
13263	1.535	4.588	0.2350	0.4570	45	3G	NR	N
13264	1.181	4.551	0.2347	0.4335	45	3G	NR	N
13265	1.331	5.242	0.2748	0.6988	29.5	3G	Y	N
13266	1.195	5.242	0.2748	0.6988	44.5	3G	Y	N
13273	1.358	3.744	0.2156	0.1417	44.5	1G	NR	N
13274S	1.142	3.742	0.2155	0.1354	44.5	1G	NR	N
13276	1.375	3.303	0.2351	0.1575	45	1G	NR	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
13277	1.181	3.325	0.2342	0.1575	45	1G	NR	N
13280	1.634	7.372	0.3717	0.5953	45	2G	Y	N
13286	1.417	4.146	0.2154	0.1102	44.5	1G	NR	N
13287	1.220	4.156	0.2151	0.1102	44.5	1G	NR	N
13288	2.106	5.425	0.3127	0.1398	44.5	3G	NR	N
13289	1.654	5.348	0.3122	0.1398	44.5	3G	NR	N
13290S	2.106	5.425	0.3127	0.1398	44.5	3G	NR	N
13291S	1.654	5.348	0.3122	0.1398	44.5	3G	Y	N
13293	1.382	4.026	0.2348	0.2350	44.5	3G	NR	N
13294	1.457	4.719	0.2356	0.3898	45	3G	Y	N
13295	1.220	4.272	0.2346	0.3366	45	3G	Y	N
13300S	1.575	7.559	0.3137	0.5295	29.5	1G	Y	N
13301S	1.575	7.547	0.3132	0.5295	44.5	1G	Y	N
13302	1.220	4.102	0.2350	0.2165	44.5	3G	Y	N
13303	1.063	4.067	0.2346	0.2165	44.5	3G	NR	N
13304S	1.063	4.067	0.2346	0.2165	44.5	3G	Y	N
13305	1.378	4.071	0.2354	0.1839	45	1G	NR	N
13306	1.181	4.120	0.2352	0.1772	45	1G	NR	N
13307S	1.694	7.051	0.3725	0.5087	20	1G	Y	N
13308	1.870	8.503	0.3789	0.4669	20	1G	Y	N
13309S	1.790	8.810	0.3789	0.7579	45	1G	Y	N
13310	1.307	5.368	0.2354	0.2027	44.5	3G	N	N
13311S	1.189	5.362	0.2350	0.2028	44.5	3G	N	N
13312	1.307	4.034	0.2354	0.2028	44.5	3G	N	N
13313S	1.189	4.024	0.2350	0.2028	44.5	3G	N	N
13314	1.333	4.094	0.2354	0.2181	45	3G	N	N
13315S	1.333	4.095	0.2354	0.2173	45	3G	N	N
13316SN	1.102	4.011	0.2348	0.2177	45	3G	Y	N
13317	1.276	4.094	0.2353	0.2204	45	3G	N	N
13318	1.102	4.012	0.2348	0.2181	45	3G	Y	N
13319S	1.059	3.799	0.2348	0.1575	45	3G	N	N
13320SN	1.177	3.736	0.2340	0.1575	45	3G	N	N
13321	1.181	3.819	0.1954	0.2224	44.25	3G	N	N
13322S	0.990	4.362	0.1953	0.2224	44.25	3G	N	N
13323	1.134	4.163	0.1956	0.2224	44.25	3G	N	N
13324	1.169	3.740	0.1954	0.2224	44.25	3G	N	N
13325SN	1.031	4.337	0.1952	0.2224	44.25	3G	N	N
13326	1.457	3.920	0.2741	0.4528	45	1G	NR	N
13327	1.299	3.920	0.2734	0.4528	45	1G	NR	N
13329	1.378	4.258	0.2343	0.2953	30	3G	NR	N
13330	1.299	4.249	0.2337	0.2953	45	3G	NR	N
13331	1.380	4.025	0.2348	0.2350	45	3G	Y	N
13332SN	1.185	3.972	0.2340	0.2360	45	3G	Y	N
13333	1.510	3.962	0.2346	0.3310	44.5	1G	NR	N
13334	1.457	3.988	0.2348	0.3327	44.25	1G	NR	N
13335	1.205	3.824	0.2344	0.3327	44.25	1G	NR	Y
13336	1.417	4.606	0.2161	0.1732	44.75	1G	NR	N
13337	1.415	3.524	0.2748	0.0835	45	3G	N	N
13338S	1.238	3.504	0.2739	0.0835	45	3G	N	N
13340	1.228	4.614	0.1958	0.4094	44.5	3G	Y	N
13341S	1.083	4.577	0.1952	0.4094	45	3G	Y	N
13342	1.232	4.032	0.1958	0.0984	44.5	3G	NR	N
13343	1.083	4.007	0.1952	0.0984	44.5	3G	NR	N
13344	1.457	3.841	0.2160	0.1831	44.5	1G	NR	N
13345S	1.220	3.756	0.2155	0.1831	44.5	1G	Y	N
13347	1.437	4.344	0.2352	0.2500	44.5	1G	NR	N
13348	1.260	4.414	0.2345	0.2500	44.5	1G	NR	Y
13349	1.437	4.303	0.2352	0.2165	44.5	1G	NR	N
13350	1.260	4.468	0.2345	0.3051	44.5	1G	NR	Y
13354	1.856	9.449	0.3725	1.3780	20.5	1G	Y	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
13355S	1.778	9.705	0.3717	1.6340	30	1G	Y	N
13356	1.122	4.028	0.2349	0.3602	45	3G	Y	N
13357	1.000	4.028	0.2346	0.3681	45	3G	Y	N
13358	1.417	4.283	0.2157	0.1180	45	1G	NR	N
13359	1.220	4.280	0.2148	0.1180	45	1G	NR	N
13360	1.339	5.069	0.3127	0.4409	20	1G	Y	N
13361	1.496	6.010	0.3123	0.3295	45	1G	Y	N
13363	1.831	5.083	0.3529	0.3228	45	3G	NR	N
13364	1.638	5.055	0.3523	0.2937	29.5	3G	NR	N
13365	1.260	4.305	0.2157	0.2559	44.5	1G	NR	N
13366	1.084	4.262	0.2155	0.2559	44.5	1G	NR	N
13367	1.102	3.695	0.1952	0.1969	44.5	3G	NR	N
13368S	0.984	3.695	0.1944	0.1969	44.5	3G	Y	N
13369	0.984	3.695	0.1944	0.1969	44.5	3G	NR	N
13370	1.575	6.315	0.3531	0.4429	30	3G	Y	N
13371	1.496	6.315	0.3526	0.4429	45	3G	Y	N
13373	1.457	4.862	0.2756	0.2618	29.5	1G	Y	N
13374	1.339	4.797	0.2750	0.1909	29.25	1G	Y	N
13375S	1.575	7.560	0.3136	0.4882	30	3G	Y	N
13376S	1.496	7.587	0.3133	0.4882	29.5	3G	Y	N
13377S	1.654	7.555	0.3136	0.4882	24.5	3G	Y	N
13378S	1.575	7.543	0.3133	0.4882	39.5	3G	Y	N
13379	1.791	5.709	0.3520	0.4880	30	1G	Y	N
13380	1.661	5.709	0.3518	0.4880	36	1G	Y	N
13381	1.780	9.449	0.3725	1.3780	19.5	1G	Y	N
13382	1.697	9.705	0.3717	1.6340	29.5	1G	Y	N
13383	1.728	5.039	0.3134	0.1378	45	1G	NR	N
13384	1.492	5.039	0.3127	0.1378	44.75	1G	N	N
13385	1.776	6.673	0.3523	0.3740	30	1G	NR	N
13386S	1.736	6.673	0.3521	0.3740	45	1G	NR	Y
13387	1.728	5.039	0.3132	0.1378	29.75	1G	NR	N
13388S	1.492	5.039	0.3126	0.1378	44.75	1G	NR	Y
13389	1.776	6.697	0.3522	0.4724	30	1G	NR	N
13390S	1.736	6.724	0.3522	0.4724	45	1G	NR	N
13391S	1.736	6.770	0.3521	0.4724	45	1G	NR	Y
13392	1.732	5.276	0.3128	0.1969	30	1G	NR	N
13393	1.811	5.276	0.3128	0.1969	30	1G	NR	N
13394	1.457	5.276	0.3123	0.1969	30	1G	NR	N
13397	1.142	4.169	0.2151	0.1236	44.5	1G	NR	N
13398	1.337	4.185	0.2154	0.1634	44.5	1G	NR	N
13400	1.417	5.004	0.2155	0.4181	45	3G	Y	N
13401	1.417	4.299	0.2154	0.2047	44.5	3G	Y	N
13402	1.142	4.728	0.2150	0.3937	44.5	3G	Y	N
13403	1.437	4.632	0.2741	0.2146	30	1G	NR	N
13404	1.220	4.626	0.2737	0.2146	45	1G	NR	N
13405	1.299	4.045	0.2741	0.1594	30	1G	NR	N
13406	1.102	4.045	0.2737	0.1594	45	1G	NR	N
13407	1.102	3.953	0.2347	0.1988	30	1G	NR	N
13408	0.965	3.947	0.2343	0.1988	45	1G	NR	N
13409	1.752	4.965	0.3527	0.1654	30	1G	NR	N
13410	1.535	4.957	0.3524	0.1654	45	1G	NR	N
13411	1.614	4.528	0.3140	0.1594	30	1G	NR	N
13412	1.378	4.528	0.3135	0.1594	45	1G	NR	N
13413	1.496	4.291	0.3140	0.1555	30	1G	NR	N
13414	1.417	4.291	0.3140	0.1575	30	1G	NR	N
13415	1.378	4.291	0.3140	0.1575	30	1G	NR	N
13416	1.181	4.285	0.3135	0.1555	45	1G	Y	Y
13417	1.417	5.333	0.2753	0.2669	29.5	1G	Y	N
13420	1.634	5.886	0.3150	0.4583	29.5	1G	Y	N
13421	1.476	5.886	0.3150	0.4583	44.25	1G	Y	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
13424	1.618	5.709	0.3518	0.4330	45	1G	Y	N
13427	2.220	7.550	0.4950	0.4600	30	1G	NR	N
13428	1.280	4.242	0.2142	0.4744	44.5	3G	Y	N
13429	1.114	3.813	0.2137	0.3780	44.5	3G	Y	N
13430S	1.771	7.766	0.3717	0.6287	19.25	2G	Y	N
13431S	1.646	7.766	0.3717	0.6287	19.25	2G	Y	N
13432	1.929	5.211	0.3136	0.2047	45	1G	NR	N
13433	1.555	5.207	0.3136	0.2047	45	1G	Y	Y
13434S	1.931	7.594	0.3920	0.4402	24.5	1G	Y	N
13435S	1.813	7.537	0.3910	0.4469	44.5	1G	Y	N
13436	1.437	5.555	0.2756	0.2697	29.5	1G	Y	N
13437	1.398	5.555	0.2753	0.2697	29.5	1G	Y	N
13438	1.437	5.337	0.2756	0.2697	29.5	1G	Y	N
13439	1.398	5.333	0.2753	0.2697	29.5	1G	Y	N
13440	1.587	4.914	0.3136	0.2040	45	1G	Y	N
13441	1.437	3.776	0.2348	0.3327	44.5	1G	NR	N
13442	1.142	4.073	0.2345	0.3327	44.5	1G	Y	N
13443	1.358	5.669	0.2586	0.3268	30	1G	NR	N
13444	1.083	5.669	0.2572	0.3268	45	1G	NR	N
13445	1.173	4.806	0.2730	0.3772	30	3G	Y	N
13446S	1.016	4.799	0.2725	0.3819	45	3G	Y	N
13447	2.402	9.724	0.4697	0.6299	30	1G	NR	N
13448S	2.323	9.724	0.4685	0.6299	45	1G	NR	N
13449	1.252	4.272	0.2346	0.3366	40	3G	Y	N
13451	1.850	7.845	0.3924	0.3976	29.5	1G	Y	N
13452	1.811	7.799	0.3924	0.3976	44.5	1G	Y	N
13453	1.185	3.898	0.2350	0.1909	44.5	3G	NR	N
13454	0.949	3.996	0.2346	0.1909	44.5	3G	NR	N
13455	1.185	3.892	0.1956	0.1831	44.5	3G	NR	N
13456	0.980	3.923	0.1952	0.1831	30	3G	NR	N
13457	1.067	3.789	0.1956	0.1575	44.5	3G	NR	N
13458S	0.909	3.866	0.1949	0.1575	44.5	3G	NR	N
13459	1.732	6.689	0.3907	0.3800	20	1G	Y	N
13460	1.610	6.679	0.3898	0.3800	30	1G	Y	N
13461	1.535	4.311	0.2350	0.1772	44.5	3G	NR	N
13462	1.181	4.396	0.2347	0.2756	44.5	3G	NR	N
13463	1.457	5.530	0.3130	0.4173	29.5	1G	NR	N
13464	1.456	5.520	0.3120	0.4173	45	1G	Y	Y
13465	1.531	5.228	0.2741	0.2402	30	1G	NR	N
13466	1.453	5.203	0.2735	0.2402	45	1G	NR	N
13467	1.551	4.186	0.2348	0.3287	44	3G	NR	N
13468	1.240	3.958	0.2344	0.3287	44	3G	NR	N
13469	1.299	4.976	0.2738	0.4902	44.5	1G	NR	N
13470	1.220	4.967	0.2737T	0.4902	44.5	1G	NR	N
13471	1.752	7.677	0.3789	0.5590	20	1G	Y	N
13472	1.752	7.677	0.3789	0.5590	20	1G	Y	N
13473	1.672	7.677	0.3789	0.5590	20	1G	Y	N
13474	1.675	7.677	0.3789	0.5590	45	1G	Y	N
20525	1.023	4.565	0.2148	0.1180	45	1G	NR	N
21018	1.090	5.552	0.2484	0.3100	30	1G	N	N
21037	1.889	6.864	0.4960	0.2660	30	1G	N	N
21235S	1.660	5.367	0.3716	0.2200	20	1G	NR	N
21366	1.380	5.528	0.3104	0.3100	30	1G	N	N
21375	1.715	6.133	0.3720	0.3250	44	1G	Y	N
21377	1.715	6.208	0.3720	0.3250	29	1G	Y	N
21412	1.875	6.655	0.4342	0.3752	29	1G	Y	N
21446	1.889	6.864	0.4955	0.2920	30	1G	Y	N
21500	1.180	5.529	0.3104	0.3100	30	1G	N	N
21547	1.654	4.983	0.3419	0.4000	44	1G	Y	N
21570	1.573	6.867	0.3715	0.4095	30	1G	Y	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
21586	1.850	6.174	0.3720	0.3248	30	1G	Y	N
21661S	1.870	7.726	0.3789	0.4120	30	1G	N	N
21750	1.573	6.887	0.3715	0.4095	29.75	1G	Y	N
21911	1.850	7.951	0.3717	0.5622	29	2G	Y	N
21912	1.646	7.953	0.3717	0.6040	44	2G	Y	N
22040S	1.142	3.634	0.2340	0.1260	45	3G	Y	N
22095	1.573	6.992	0.3715	0.5095	30	1G	Y	N

Valve Progressive Size Listing By Head Diameter

Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #
0.906	0.3100	3.390	45	1G	00485	1.084	0.2742	3.532	45	1G	13021
0.909	0.1949	3.866	44.5	3G	13458S	1.089	0.2354	3.543	45	1G	10563
0.915	0.2329	4.659	45	3G	13223	1.090	0.2484	5.552	30	1G	00759
0.945	0.2354	3.612	45	1G	10309	1.090	0.2484	5.552	30	1G	01018
0.949	0.2346	3.996	44.5	3G	13454	1.090	0.2484	5.552	30	1G	21018
0.965	0.2343	3.947	45	1G	13408	1.093	0.2151	4.145	44.5	1G	13214
0.965	0.2351	3.466	45	1G	10507	1.094	0.2154	3.798	45	1G	02194
0.965	0.2351	3.699	45	1G	10138	1.094	0.2329	4.178	45	3G	01921
0.967	0.2353	3.618	45	1G	10315	1.094	0.3100	3.395	45	1G	00230
0.980	0.1952	3.923	30	3G	13456	1.102	0.1952	3.695	44.5	3G	13367
0.980	0.2141	3.764	45	1G	02195	1.102	0.2144	3.311	45	1G	10170
0.984	0.1944	3.695	44.5	3G	13368S	1.102	0.2339	3.379	45	1G	10787S
0.984	0.1944	3.695	44.5	3G	13369	1.102	0.2341	3.673	44.5	1G	13198
0.984	0.2146	3.646	45	1G	10536	1.102	0.2344	3.983	45	1G	10300
0.984	0.2148	4.675	45	1G	10191	1.102	0.2347	3.953	30	1G	13407
0.984	0.2342	3.638	45	1G	10813	1.102	0.2348	4.011	45	3G	13316SN
0.986	0.2144	3.147	45	1G	10517	1.102	0.2348	4.012	45	3G	13318
0.990	0.1953	4.362	44.25	3G	13322S	1.102	0.2369	3.801	45	1G	01746
1.000	0.2346	4.028	45	3G	13357	1.102	0.2580	4.132	45	1G	10414
1.002	0.1954	4.035	44.5	1G	13234	1.102	0.2580	4.171	45	1G	10196
1.004	0.1957	3.461	45	1G	02240	1.102	0.2737	4.045	45	1G	13406
1.004	0.2352	3.926	45	1G	10177	1.102	0.2737	5.059	37.5	1G	02180
1.015	0.2143	3.740	45	1G	13039	1.102	0.2737	5.059	37.5	1G	02180R
1.015	0.3128	3.938	45	DR	00234	1.103	0.2148	4.037	45	1G	10435
1.015	0.3128	4.077	44	1G	00489	1.103	0.2335	3.678	45	1G	02054
1.016	0.2725	4.799	45	3G	13446S	1.103	0.2350	3.997	45	1G	10235
1.021	0.2337	4.014	45	1G	02250S	1.103	0.2735	4.120	45	1G	10153
1.023	0.2148	4.565	45	1G	10525	1.104	0.2146	4.635	45	1G	10437
1.023	0.2148	4.565	45	1G	20525	1.110	0.2345	3.614	45	1G	10812
1.023	0.2346	4.545	44	3G	01729	1.114	0.2137	3.813	44.5	3G	13429
1.023	0.2585	3.971	45	1G	10495	1.120	0.2329	4.324	45	3G	02009
1.024	0.2155	3.492	45	1G	10781	1.120	0.2329	4.324	45	3G	02035
1.031	0.1952	4.337	44.25	3G	13325SN	1.120	0.2740	4.108	45.5	1G	02235
1.031	0.2350	4.150	45	1G	10159	1.122	0.2349	4.028	45	3G	13356
1.032	0.2740	4.114	45	1G	13074	1.122	0.2353	3.681	45	1G	10137
1.059	0.2348	3.799	45	3G	13319S	1.122	0.3134	4.023	45	1G	13025
1.059	0.2348	4.137	45	3G	10804S	1.122	0.3135	4.023	45	1G	13028
1.063	0.2345	4.480	45	1G	10499	1.124	0.2345	3.999	45	1G	02247
1.063	0.2346	4.067	44.5	3G	13303	1.130	0.2328	4.614	45	1G	01742
1.063	0.2346	4.067	44.5	3G	13304S	1.130	0.2329	4.614	45	3G	01992
1.063	0.2351	3.876	44	1G	10420	1.130	0.2740	4.095	45	1G	13073
1.063	0.2352	3.993	45	1G	02197	1.134	0.1956	4.163	44.25	3G	13323
1.063	0.3134	3.980	45	1G	13023	1.140	0.2350	4.093	45	1G	10815
1.067	0.1956	3.789	44.5	3G	13457	1.140	0.3128	4.084	44	1G	00486
1.073	0.2155	3.755	44.5	1G	10553S	1.140	0.3130	4.083	44	1G	10034S
1.073	0.2337	3.982	45	1G	02248S	1.141	0.2328	4.238	44.5	1G	01937
1.073	0.2352	3.727	45	1G	10306S	1.142	0.2148	4.496	45	1G	10542
1.079	0.2348	3.898	45	1G	10547	1.142	0.2148	4.862	45	1G	10198A
1.080	0.2344	3.772	45	1G	01950	1.142	0.2148	4.920	45	1G	10546
1.081	0.2154	3.491	45	1G	10736	1.142	0.2150	4.398	45	1G	02178S
1.081	0.2339	4.126	45	1G	10724	1.142	0.2150	4.728	44.5	3G	13402
1.081	0.2339	4.598	45	1G	10817	1.142	0.2151	4.169	44.5	1G	13191
1.081	0.2732	3.967	45	1G	10521	1.142	0.2151	4.169	44.5	1G	13256
1.083	0.1952	4.007	44.5	3G	13343	1.142	0.2151	4.169	44.5	1G	13397
1.083	0.1952	4.577	45	3G	13341S	1.142	0.2155	3.742	44.5	1G	13274S
1.083	0.2345	3.823	45	1G	10809	1.142	0.2159	4.526	45	1G	10190
1.083	0.2350	3.862	45	1G	10338S	1.142	0.2335	3.564	45	1G	01706
1.083	0.2572	5.669	45	1G	13444	1.142	0.2335	3.678	45	1G	13243
1.084	0.2155	4.262	44.5	1G	13366	1.142	0.2340	3.634	45	3G	02040S
1.084	0.2578	4.201	45	1G	10123	1.142	0.2340	3.634	45	3G	22040S

Valve Progressive Size Listing By Head Diameter

Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #
1.142	0.2343	3.827	44.5	1G	13230	1.189	0.2350	4.024	44.5	3G	13313S
1.142	0.2344	4.073	45	1G	10740	1.189	0.2350	5.362	44.5	3G	13311S
1.142	0.2344	4.497	45	1G	10535A	1.189	0.2740	4.095	45	1G	02234
1.142	0.2345	4.073	44.5	1G	13442	1.190	0.3122	4.608	45	1G	13100
1.142	0.2579	4.044	45	1G	10207	1.191	0.2340	4.311	45	3G	13222
1.142	0.2722	4.959	45	3G	01713	1.193	0.2345	4.032	45	1G	02249
1.142	0.3137	3.934	45	1G	10308	1.195	0.2349	3.730	45	1G	13221
1.146	0.2345	3.614	45	1G	13047	1.195	0.2748	5.242	44.5	3G	13266
1.149	0.2154	3.630	45	1G	10516	1.198	0.2343	4.160	45	3G	10696S
1.150	0.2154	3.783	45	1G	13038	1.200	0.2345	4.472	45	1G	13200
1.156	0.3410	4.942	45	1G	00312	1.200	0.2576	4.153	45	1G	10501
1.161	0.2155	3.982	45	1G	10799	1.201	0.2147	4.142	45	1G	13260
1.161	0.2155	4.165	45	1G	13089S	1.201	0.2148	4.063	45	1G	13258
1.161	0.2738	5.138	39.5	1G	13183	1.201	0.2328	4.324	45	1G	01731
1.162	0.2738	5.138	39.5	1G	13183R	1.201	0.2339	4.246	44	3G	01999
1.164	0.2343	4.081	45	1G	10285S	1.201	0.2351	4.091	45	1G	10474
1.168	0.3132	4.086	45	1G	10759	1.201	0.2354	3.924	45	1G	10176
1.169	0.1954	3.740	44.25	3G	13324	1.201	0.2574	4.150	45	1G	10811
1.169	0.3134	4.076	44	2G	13070	1.201	0.2575	4.319	45	1G	10128A
1.173	0.2730	4.806	30	3G	13445	1.203	0.3145	4.016	30	1G	01365
1.177	0.2340	3.736	45	3G	13320SN	1.203	0.3381	5.179	45	DR	00170
1.177	0.2340	4.090	45	3G	10803S	1.203	0.3381	5.190	45	1G	01147
1.177	0.2340	4.090	45	3G	10805S	1.203	0.3381	5.190	45	1G	01693S
1.180	0.2591	4.747	45	1G	10192	1.203	0.3387	4.993	45	1G	00268
1.180	0.3104	5.529	30	1G	01429S	1.203	0.3388	4.358	44.5	1G	13106S
1.180	0.3104	5.529	30	1G	01500	1.205	0.1957	3.514	45	1G	02241
1.180	0.3104	5.529	30	1G	21500	1.205	0.2343	3.824	44.75	1G	13082
1.181	0.1954	3.819	44.25	3G	13321	1.205	0.2344	3.748	44.25	1G	13212
1.181	0.2148	4.280	45	1G	13173	1.205	0.2344	3.824	44.25	1G	13335
1.181	0.2148	4.496	45	1G	10779	1.205	0.2344	3.824	45	1G	13205
1.181	0.2153	3.632	45	1G	10224	1.206	0.2347	3.856	45	1G	13080
1.181	0.2153	4.120	45	1G	02007	1.206	0.2347	3.891	45	1G	13078
1.181	0.2153	4.210	45	1G	10544	1.215	0.1952	3.989	45	1G	02193
1.181	0.2159	4.668	45	1G	10524	1.217	0.2350	4.747	45	1G	10248
1.181	0.2340	3.909	45	1G	10795	1.217	0.2591	4.157	45	1G	10122
1.181	0.2342	3.325	45	1G	13277	1.219	0.3410	4.844	45	1G	00161
1.181	0.2343	4.028	45	1G	10229	1.220	0.2148	4.280	45	1G	13359
1.181	0.2346	4.546	45	3G	01788	1.220	0.2151	4.156	44.5	1G	13287
1.181	0.2347	3.955	45	1G	10503	1.220	0.2155	3.756	44.5	1G	13226
1.181	0.2347	4.396	44.5	3G	13462	1.220	0.2155	3.756	44.5	1G	13345S
1.181	0.2347	4.551	45	3G	13264	1.220	0.2156	3.490	45	1G	10780
1.181	0.2349	3.635	45	1G	10310	1.220	0.2346	4.272	45	3G	13295
1.181	0.2352	4.120	45	1G	13306	1.220	0.2350	4.102	44.5	3G	13302
1.181	0.2353	3.597	45	1G	10314	1.220	0.2352	3.636	45	1G	10311
1.181	0.2354	4.338	45	1G	10498	1.220	0.2354	4.148	45	1G	10157
1.181	0.2736	4.509	45	1G	10302	1.220	0.2584	3.969	45	1G	10496
1.181	0.2738	4.510	45	1G	10102S	1.220	0.2730	4.963	45	1G	02176
1.181	0.2740	4.578	44	3G	01708	1.220	0.2730	4.963	45	1G	02176R
1.181	0.3135	4.285	45	1G	13416	1.220	0.2737	4.626	45	1G	13404
1.181	0.3152	4.428	45	1G	10745	1.220	0.2737T	4.967	44.5	1G	13470
1.181	0.3152	4.509	45	1G	13062S	1.220	0.2740	4.140	45	1G	10104
1.182	0.2743	4.311	44	1G	01674	1.220	0.2745	4.212	44	1G	10106
1.185	0.1956	3.892	44.5	3G	13455	1.220	0.3121	4.646	44.5	1G	13053
1.185	0.2153	3.614	45	1G	02246	1.220	0.3125	3.936	45	1G	10129
1.185	0.2340	3.972	45	3G	13332SN	1.220	0.3126	4.028	45	1G	10083
1.185	0.2343	3.975	45	3G	02010	1.221	0.2354	3.445	45	1G	10506
1.185	0.2343	3.975	45	3G	02010S	1.221	0.2575	4.319	45	1G	10128R
1.185	0.2350	3.898	44.5	3G	13453	1.224	0.2592	4.152	45	1G	10742
1.185	0.2735	4.299	45	1G	02244	1.226	0.1957	4.006	44.5	1G	13233
1.185	0.2735	4.569	45	1G	10256	1.227	0.3127	4.116	45	3G	10370S

Valve Progressive Size Listing By Head Diameter

Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #
1.228	0.1958	4.614	44.5	3G	13340	1.295	0.2742	3.589	45	3G	10734S
1.229	0.2335	4.188	45	1G	01739	1.297	0.2349	3.394	45	1G	10786
1.230	0.2736	3.813	45	1G	02182S	1.297	0.3162	4.206	45	1G	10060S
1.232	0.1958	4.032	44.5	3G	13342	1.298	0.2352	3.990	45	1G	10234
1.232	0.2343	3.744	44	1G	10538	1.299	0.2157	4.033	45	1G	10434
1.232	0.2736	3.892	45	1G	10227S	1.299	0.2157	4.518	45	1G	10436
1.232	0.2740	3.889	45	1G	10793S	1.299	0.2337	4.249	45	3G	13330
1.234	0.2348	3.700	44.5	1G	13238	1.299	0.2348	4.424	45	1G	10534A
1.238	0.2733	3.813	45	3G	10732S	1.299	0.2349	4.177	45	3G	10695
1.238	0.2739	3.504	45	3G	13338S	1.299	0.2350	3.685	44.5	1G	13197
1.238	0.2743	4.309	44	1G	01727	1.299	0.2351	4.014	45	1G	10788S
1.239	0.2343	4.791	45	1G	10807	1.299	0.2576	3.981	45	1G	10497
1.240	0.2154	4.202	44.5	1G	13209	1.299	0.2583	4.481	45	1G	10413
1.240	0.2344	3.958	44	3G	13468	1.299	0.2594	4.110	45	1G	10195
1.240	0.2350	3.534	45	1G	10562	1.299	0.2734	3.920	45	1G	13327
1.240	0.2352	4.052	45	1G	02196	1.299	0.2738	4.975	45	1G	02175
1.250	0.3085T	4.771	45	1G	00598S	1.299	0.2738	4.976	44.5	1G	13469
1.250	0.3095	4.438	45	1G	01041	1.299	0.2739	4.975	45	1G	02175R
1.252	0.2346	4.272	40	3G	13449	1.299	0.2741	4.045	30	1G	13405
1.254	0.3422	4.308	45	1G	10751	1.299	0.2756	4.893	45	1G	02015
1.257	0.2349	4.031	45	1G	10723	1.299	0.2756	4.893	45	1G	13006
1.257	0.2349	4.502	45	1G	10816	1.299	0.2756	4.893	45	1G	13006R
1.260	0.2147	4.063	45	1G	13262	1.299	0.2756	4.893	45	1G	13161
1.260	0.2155	3.485	45	1G	10735	1.299	0.2756	4.907	30	1G	02014
1.260	0.2155	4.345	45	1G	13087	1.299	0.2756	4.907	30	1G	02014R
1.260	0.2157	4.305	44.5	1G	13365	1.299	0.3134	3.980	45	1G	13022
1.260	0.2161	4.411	45	1G	10432	1.300	0.3130	4.567	45	1G	10771
1.260	0.2340	3.906	45	1G	10548	1.300	0.3423	4.680	30	1G	01322
1.260	0.2342	4.181	45	1G	13140S	1.300	0.3720	6.063	45	1G	00592
1.260	0.2343	4.120	45	1G	13203S	1.307	0.2354	4.034	44.5	3G	13312
1.260	0.2344	3.870	45	1G	10549	1.307	0.2354	5.368	44.5	3G	13310
1.260	0.2345	4.414	44.5	1G	13348	1.307	0.3413	4.730	45	2G	01394
1.260	0.2345	4.468	44.5	1G	13350	1.308	0.2335	4.169	45	1G	01707
1.260	0.2347	4.020	45	3G	10784	1.309	0.2340	4.513	45	1G	01741
1.260	0.2350	3.781	45	1G	10808	1.309	0.2340	4.513	45	3G	01991
1.260	0.2350	3.860	45	1G	10337	1.312	0.2746	4.435	45	1G	10243
1.260	0.2353	3.843	44	1G	10421	1.312	0.3410	5.281	44	2G	00503
1.260	0.2356	4.520	44	3G	01728	1.313	0.3085	4.771	45	1G	00249
1.260	0.2376	3.823	45	1G	01745	1.313	0.3412	4.906	45	1G	00154
1.260	0.2739	4.100	45	1G	01702	1.315	0.3114	4.500	35	1G	13112
1.260	0.3121	4.561	45	1G	10215S	1.315	0.3115	4.499	45	1G	00873
1.260	0.3130	4.605	45	1G	10289S	1.318	0.3115	4.665	45	1G	13102S
1.260	0.3397	4.355	45	1G	10753	1.319	0.2354	3.882	45	1G	10518
1.260	0.3410	4.313	45	1G	10749	1.319	0.3524	4.685	45	1G	10769
1.261	0.2745	4.144	45	1G	10118	1.320	0.3135	4.020	30	1G	13024
1.267	0.2735	3.909	45	1G	13085	1.320	0.3527	4.741	44.5	1G	13069
1.268	0.3100	4.260	45	1G	00564	1.323	0.2343	4.252	44	3G	13046
1.269	0.3153	4.162	44	3G	01300	1.327	0.2352	4.061	45	1G	10814
1.270	0.3387	5.325	45	1G	00683	1.328	0.3387	5.197	44	DR	00196
1.272	0.2349	3.800	45	1G	01949	1.328	0.3387	5.198	44	1G	00210
1.272	0.2738	3.996	45	1G	10520	1.328	0.3410	4.333	30	2G	13105
1.276	0.2353	4.094	45	3G	13317	1.328	0.3411	4.957	30	1G	00269
1.278	0.3146	3.977	30	DR	00343	1.331	0.2340	4.257	45	3G	01920
1.280	0.2142	4.242	44.5	3G	13428	1.331	0.2356	4.618	44.5	3G	02118
1.280	0.2344	3.976	45	1G	10299	1.331	0.2356	4.618	45	3G	02118S
1.280	0.2747	4.559	45	1G	10162	1.331	0.2748	5.242	29.5	3G	13265
1.281	0.3095	4.505	45	1G	00310	1.333	0.2354	4.094	45	3G	13314
1.281	0.3410	4.807	45	1G	00220	1.333	0.2354	4.095	45	3G	13315S
1.283	0.3410	4.700	45	TA	00270	1.334	0.3509	4.829	45	3G	10349S
1.295	0.2734	3.589	45	3G	10555S	1.337	0.2154	4.185	44.5	1G	13398

Valve Progressive Size Listing By Head Diameter

Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #
1.337	0.2154	4.185	45	1G	13213	1.378	0.2151	3.313	45	1G	10169
1.337	0.3138	4.124	45	3G	10367	1.378	0.2151	3.925	45	1G	13259
1.338	0.2347	4.088	45	1G	10739	1.378	0.2151	4.075	45	1G	13257
1.338	0.2350	4.385	45	1G	13199	1.378	0.2154	4.456	44.5	1G	13190
1.338	0.3130	4.291	45	1G	10773	1.378	0.2154	4.456	44.5	1G	13255
1.339	0.2153	4.392	45	1G	02177	1.378	0.2155	4.201	45	1G	10543
1.339	0.2155	4.004	45	1G	10798	1.378	0.2156	3.640	45	1G	02245
1.339	0.2157	3.758	45	1G	10552	1.378	0.2156	4.073	45	1G	02006
1.339	0.2161	4.411	45	1G	10197A	1.378	0.2157	4.291	45	1G	13172
1.339	0.2161	4.567	45	1G	10541	1.378	0.2160	4.567	45	1G	10778
1.339	0.2348	3.898	45	1G	10502	1.378	0.2343	4.258	30	3G	13329
1.339	0.2350	3.872	45	1G	10794	1.378	0.2354	4.071	45	1G	13305
1.339	0.2352	3.991	45	1G	10228	1.378	0.2356	4.510	45	3G	01787
1.339	0.2353	3.743	45	1G	10305	1.378	0.2585	4.183	45	1G	10810
1.339	0.2354	4.060	45	1G	10284	1.378	0.2587	4.317	45	1G	10126R
1.339	0.2587	4.317	45	1G	10126A	1.378	0.2594	4.445	45	1G	10078
1.339	0.2592	4.080	45	1G	10206	1.378	0.2734	4.516	45	3G	01712
1.339	0.2730	5.475	45	1G	10523	1.378	0.3126	4.012	45	1G	10148
1.339	0.2737	5.058	30	1G	02179	1.378	0.3126	4.042	45	1G	10625
1.339	0.2737	5.058	30	1G	02179R	1.378	0.3126	4.277	45	1G	10142
1.339	0.2738	5.138	37	1G	13182	1.378	0.3135	4.528	45	1G	13412
1.339	0.2738	5.138	37	1G	13182R	1.378	0.3140	4.103	45	1G	10340A
1.339	0.2740	4.607	45	3G	01698	1.378	0.3140	4.291	30	1G	13415
1.339	0.2740	4.622	45	3G	01698S	1.380	0.2348	4.025	45	3G	13331
1.339	0.2745	4.575	45	1G	10163	1.380	0.3104	5.528	30	1G	01366
1.339	0.2745	4.575	45	1G	10164	1.380	0.3104	5.528	30	1G	21366
1.339	0.2745	4.780	45	1G	10273	1.380	0.3129	4.725	29.75	1G	13064
1.339	0.2750	4.797	29.25	1G	13374	1.380	0.3414	4.807	44	4G	01527
1.339	0.3115	4.560	45	1G	10217	1.381	0.2737	4.261	45	1G	10271
1.339	0.3127	5.069	20	1G	13360	1.382	0.2347	4.026	44.5	3G	01997
1.339	0.3131	4.606	45	1G	10276S	1.382	0.2348	4.026	44.5	3G	13293
1.339	0.3152	5.271	45	3G	01545	1.382	0.3130	5.236	30	1G	13052
1.342	0.3410	4.832	45	1G	00162	1.382	0.3131	4.619	45	1G	10036S
1.342	0.3410	4.941	45	2G	00313	1.382	0.3137	4.901	45	1G	10282
1.357	0.3404	4.961	45	1G	13017	1.382	0.3137	4.901	45	1G	10282S
1.357	0.3404	5.373	45	1G	13019	1.382	0.3139	4.094	45	1G	10030
1.358	0.2156	3.744	44.5	1G	13273	1.384	0.2348	3.985	44.25	1G	13211
1.358	0.2586	5.669	30	1G	13443	1.384	0.2745	4.319	45	1G	02243
1.358	0.3153	4.098	45	3G	10388	1.386	0.2348	3.984	45	1G	13204
1.358	0.3303	4.098	45	3G	10388+15	1.390	0.3101	4.260	45	1G	01266
1.360	0.3715	4.796	43	4G	01265	1.390	0.3251	4.260	45	1G	01266+15
1.360	0.3715	4.797	43	2G	00746S	1.394	0.3116T	4.442	45	4G	01448
1.366	0.2350	4.536	45	1G	10247	1.394	0.3116T	4.522	45	4G	01552
1.370	0.2340	4.399	45	1G	01730	1.394	0.3117T	4.523	45	4G	01554
1.370	0.2340	4.399	45	3G	02008	1.395	0.3715	4.984	45	2G	00793
1.370	0.2340	4.399	45	3G	02034	1.396	0.2333	4.207	44	1G	01941
1.370	0.3100	5.800	44	1G	01350S	1.398	0.2722	5.023	45	4G	01994
1.370	0.3530	4.748	46	1G	10763	1.398	0.2748	3.497	49.9	3G	13174
1.371	0.2740	4.615	45	3G	02047	1.398	0.2748	4.330	44	1G	01673
1.371	0.3125	4.615	44	3G	01535	1.398	0.2753	5.333	29.5	1G	13439
1.375	0.2351	3.303	45	1G	13276	1.398	0.2753	5.555	29.5	1G	13437
1.375	0.2588	4.186	45	1G	10500	1.398	0.3150	4.409	45	1G	13056
1.375	0.3386	5.524	44	1G	01055	1.400	0.3103	6.408	30	1G	00758
1.375	0.3407T	4.643	45	1G	00976	1.403	0.3404	6.352	45	2G	00690
1.375	0.3410	5.359	45	2G	00205	1.405	0.2349	3.815	45	1G	13079
1.375	0.3412	4.942	45	1G	00989	1.405	0.2351	3.826	45	1G	13077
1.375	0.3720	6.060	45	1G	00921	1.406	0.3720T	4.892	44	4G	00549
1.376	0.2730	4.762	45	1G	10193	1.406	0.3720T	4.892	44	1G	01441
1.376	0.3124	4.394	45	1G	10064	1.406	0.3721T	4.892	44	4G	01325
1.378	0.1955	3.999	45	1G	02192	1.407	0.3405	4.840	45	2G	00185

Valve Progressive Size Listing By Head Diameter

Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #
1.412	0.3125	4.602	45	2G	13099	1.441	0.2743	3.989	45	1G	10226
1.413	0.3123	4.340	45	1G	10220S	1.441	0.2744	3.912	45	1G	02181
1.413	0.3139	4.075	45	2G	13060	1.441	0.2744	4.550	45	1G	10172
1.415	0.2737	4.035	45	3G	10374S	1.441	0.2745	3.986	45	1G	10792
1.415	0.2741	3.813	45	3G	10731	1.441	0.3724	5.004	44	1G	01798
1.415	0.2742	4.140	45	1G	10105	1.444	0.3708	5.997	30	1G	01523S
1.415	0.2748	3.524	45	3G	13337	1.449	0.2352	3.825	45	1G	13220
1.415	0.3411	5.288	30	2G	00682	1.450	0.3420	4.863	45	1G	00742
1.417	0.2150	4.075	45	1G	13261	1.451	0.3414	4.942	44	1G	01537
1.417	0.2154	4.146	44.5	1G	13286	1.451	0.3414	5.070	45	1G	01135
1.417	0.2154	4.299	44.5	3G	13401	1.451	0.3414	5.070	45	1G	01135S
1.417	0.2155	5.004	45	3G	13400	1.451	0.3415	4.873	45	1G	01000
1.417	0.2157	4.283	45	1G	13358	1.451	0.3444	5.070	45	1G	01135+3
1.417	0.2161	4.606	44.75	1G	13336	1.451	0.3564	5.070	45	1G	01135+15
1.417	0.2344	4.748	45	1G	10806	1.451	0.3565	4.873	45	1G	01000+15
1.417	0.2345	4.110	45	1G	13201	1.453	0.2735	5.203	45	1G	13466
1.417	0.2346	4.169	45	1G	13139S	1.453	0.3123	4.260	45	1G	10221S
1.417	0.2350	3.840	44	1G	10537	1.453	0.3330	4.331	45	1G	10757
1.417	0.2353	4.073	45	1G	10473	1.454	0.3725	4.984	44	2G	00912
1.417	0.2738	4.550	45	1G	10103	1.455	0.3713T	5.688	45	1G	01574S
1.417	0.2743	4.482	45	1G	10244	1.455	0.3721	5.640	45	1G	01519
1.417	0.2746	4.212	44	1G	10107	1.456	0.2346	3.988	44.75	1G	13081
1.417	0.2753	5.333	29.5	1G	13417	1.456	0.2750	5.337	44	3G	01709
1.417	0.3137	3.933	45	1G	10307	1.456	0.3120	5.128	45	1G	13122
1.417	0.3140	4.272	45	1G	10323	1.456	0.3120	5.520	45	1G	13464
1.417	0.3140	4.291	30	1G	13414	1.457	0.2160	3.841	44.5	1G	13225
1.417	0.3153	4.353	44	3G	01199	1.457	0.2160	3.841	44.5	1G	13344
1.417	0.3162	4.397	45	1G	10237	1.457	0.2346	4.149	44	3G	01998
1.417	0.3717	7.205	45	2G	02261	1.457	0.2348	3.988	44.25	1G	13334
1.417	0.3717	7.264	24	2G	02260S	1.457	0.2348	3.988	45	1G	13210
1.417	0.3717	7.269	44.25	2G	13193	1.457	0.2356	4.719	45	3G	13294
1.418	0.2740	4.681	45	3G	01925S	1.457	0.2722	4.539	44.5	3G	13252
1.418	0.2740	4.682	45	3G	01925	1.457	0.2722	4.539	45	3G	01919
1.418	0.3153	4.138	45	3G	10386	1.457	0.2722	4.539	45	3G	02036
1.418	0.3303	4.138	45	3G	10386+15	1.457	0.2738	4.980	45	1G	01903
1.419	0.3139	4.483	45	1G	10037	1.457	0.2738	5.142	45	1G	01737
1.425	0.3132	4.736	45	1G	01811	1.457	0.2741	3.920	45	1G	13326
1.425	0.3132	4.757	45	1G	02173	1.457	0.2756	4.862	29.5	1G	13373
1.425	0.3135	4.716	45	1G	02058	1.457	0.2756	5.337	29	1G	13246
1.425	0.3413	4.736	45	2G	01480	1.457	0.3123	5.276	30	1G	13394
1.425	0.3563	4.736	45	2G	01480+15	1.457	0.3130	5.140	29.5	1G	13121
1.426	0.2335	4.408	45	1G	02053	1.457	0.3130	5.530	29.5	1G	13463
1.430	0.3100	5.800	44	1G	01351S	1.457	0.3132	5.165	45	1G	01704
1.437	0.2157	4.210	45	1G	13088	1.457	0.3138	4.420	45	1G	10330A
1.437	0.2348	3.776	44.5	1G	13441	1.457	0.3151	5.108	45	3G	01936
1.437	0.2352	4.303	44.5	1G	13349	1.457	0.3152	5.189	45	3G	01451
1.437	0.2352	4.344	44.5	1G	13347	1.457	0.3720	5.322	44	1G	01305S
1.437	0.2734	4.516	45	3G	01901	1.460	0.2744	4.586	45	1G	10255
1.437	0.2741	4.632	30	1G	13403	1.461	0.2740	4.845	45	3G	01791
1.437	0.2742	4.091	45	1G	01703	1.461	0.3414	5.070	44	1G	01327
1.437	0.2748	4.320	44	1G	01726	1.462	0.3141	4.089	45	1G	10031
1.437	0.2750	4.095	44	1G	10116	1.463	0.2351	3.798	44.5	1G	13237
1.437	0.2750	4.095	44	1G	13169S	1.465	0.2736	4.185	44.5	3G	13142
1.437	0.2756	5.337	29.5	1G	13438	1.468	0.3715	5.810	45	1G	00121
1.437	0.2756	5.555	29.5	1G	13436	1.468	0.3715	5.913	45	1G	00303
1.438	0.3412	4.906	45	1G	00155	1.473	0.3718	4.855	45	1G	01784
1.438	0.3425	4.952	45	1G	01073	1.476	0.2156	4.185	44.5	1G	13208
1.439	0.3113	5.811	45	1G	13003	1.476	0.2346	4.583	45	3G	02265
1.440	0.3718	4.855	45	1G	13111	1.476	0.2352	4.073	45	1G	10321
1.440	0.3725	4.848	45	1G	00882A	1.476	0.3116	4.974	45	4G	01670

Valve Progressive Size Listing By Head Diameter

Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #
1.476	0.3116	5.045	45	4G	01905	1.500	0.3414	4.787	45	4G	01597
1.476	0.3130	5.047	45	1G	10342S	1.500	0.3414	4.807	44	4G	01397
1.476	0.3150	5.886	44.25	1G	13421	1.500	0.3415	4.600	45	2G	01814
1.476	0.3161	4.509	30	1G	13061	1.500	0.3415	4.925	45	1G	02016R
1.476	0.3513	5.030	45	1G	10726	1.500	0.3415T	4.905	45	1G	01769R
1.476	0.3513	5.030	45	1G	13120	1.500	0.3445T	4.928	45	2G	00400+3
1.476	0.3514	5.028	45	1G	10728S	1.500	0.3445T	4.928	45	2G	01192+3
1.478	0.3140	4.922	45	3G	10069	1.500	0.3562T	4.928	45	2G	00400+15
1.479	0.2345	4.583	44.5	3G	02119	1.500	0.3562T	4.928	45	2G	01192+15
1.479	0.2345	4.583	44.5	3G	02119S	1.500	0.3563T	4.920	45	1G	01807+15
1.480	0.3095	5.356	30	1G	01042	1.500	0.3563T	4.920	45	1G	01807S+15
1.484	0.4025T	6.238	45	1G	02084	1.500	0.3563T	4.923	45	2G	01206S+15
1.488	0.3140	4.158	45	1G	10076	1.500	0.3704	5.745	45	2G	01653
1.490	0.3408	4.727	45	1G	01710	1.500	0.3715	4.982	45	4G	01399
1.492	0.3126	5.039	44.75	1G	13388S	1.500	0.3715	5.003	43	4G	01329
1.492	0.3127	5.039	44.75	1G	13384	1.500	0.3715	5.156	45	1G	00168
1.492	0.3417	4.318	45	1G	10748	1.500	0.3716T	4.923	45	2G	01294S
1.492	0.3421	4.320	45	1G	10750	1.500	0.3719	4.923	46	2G	01646S
1.493	0.3125	4.170	45	1G	10146	1.500	0.3720	5.731	44	2G	00658
1.493	0.3125	4.170	45	1G	10146S	1.500	0.3720	5.945	44	1G	01376S
1.493	0.3137	4.074	45	2G	10758	1.500	0.3725	5.027	45	1G	01188
1.496	0.2156	4.165	45	1G	13086	1.500	0.3865	5.003	43	4G	01329+15
1.496	0.3123	6.010	45	1G	13361	1.500	0.3868T	4.923	45	2G	01294S+15
1.496	0.3126	4.141	45	1G	10144	1.501	0.3400	4.844	45	2G	00257
1.496	0.3131	4.609	45	1G	13059	1.502	0.3423	4.688	30	1G	01354
1.496	0.3132	4.561	45	1G	10214	1.503	0.2745	3.909	45	1G	13084
1.496	0.3133	7.587	29.5	3G	13376S	1.506	0.4343	5.370	44	2G	00917SN
1.496	0.3135	4.070	45	1G	10127	1.506	0.4493	5.370	44	2G	00917SN+15
1.496	0.3136	4.072	45	1G	10760	1.508	0.3419	4.983	44	1G	01368S
1.496	0.3138	4.609	45	1G	10288	1.508	0.3704	5.373	44	1G	01217S
1.496	0.3138	5.423	30	1G	02188	1.508	0.3704	5.373	44	1G	01332
1.496	0.3138	5.423	30	1G	13162	1.508	0.3854	5.373	44	1G	01332+15
1.496	0.3138	5.424	45	1G	02187	1.510	0.2346	3.962	44.5	1G	13333
1.496	0.3138	5.424	45	1G	13163	1.510	0.3410	4.819	45	1G	00212
1.496	0.3140	4.291	30	1G	13413	1.510	0.3410	4.978	45	TA	00348
1.496	0.3520	5.119	45	1G	13134S	1.510	0.3410	5.825	44	TA	00608
1.496	0.3526	6.315	45	3G	13371	1.510	0.3415	4.818	45	1G	00214
1.496	0.3718T	5.108	45	2G	01482S	1.510	0.3418	5.089	45	1G	00375
1.500	0.2740	4.807	45	3G	01744	1.510	0.3705	5.742	45	2G	01695S
1.500	0.3115T	4.939	44	1G	01478	1.511	0.3095	4.498	45	1G	00311
1.500	0.3115T	4.939	46	3G	01917	1.516	0.3409	5.167	30	1G	01148
1.500	0.3115T	4.940	44	1G	01556	1.516	0.3410	5.157	30	DR	00810
1.500	0.3130	4.676	45	1G	13066	1.516	0.3715	5.053	30	1G	01075S
1.500	0.3130	4.940	45	1G	10269	1.517	0.3715	4.996	45	2G	01312S
1.500	0.3133T	4.541	45	1G	01591	1.517	0.3716	4.995	45	2G	01419
1.500	0.3265T	4.939	46	3G	01917+15	1.517	0.3866	4.995	45	2G	01419+15
1.500	0.3265T	4.940	44	1G	01556+15	1.520	0.3132	4.713	45	1G	01735
1.500	0.3282T	4.355	45	1G	01550+15	1.522	0.3428	4.667	44	1G	01323
1.500	0.3283T	4.541	45	1G	01591+15	1.523	0.3135	4.803	45	1G	13044
1.500	0.3408	4.717	45	1G	01387	1.525	0.2347	4.165	44	3G	13179
1.500	0.3408	4.718	45	1G	01389	1.527	0.3105	4.260	44	1G	00627
1.500	0.3410	5.280	44	2G	00504	1.531	0.2741	5.228	30	1G	13465
1.500	0.3410	5.363	45	2G	00193	1.531	0.3405	4.845	45	2G	00349
1.500	0.3412	5.078	45	2G	01361	1.531	0.3727	5.810	45	1G	00122
1.500	0.3412T	4.923	45	2G	01206S	1.534	0.3115	4.499	45	1G	13101
1.500	0.3412T	4.928	45	2G	00400	1.534	0.3115	4.500	45	1G	00874
1.500	0.3412T	4.928	45	2G	01192	1.535	0.2350	4.311	44.5	3G	13461
1.500	0.3413T	4.904	45	1G	01809	1.535	0.2350	4.588	45	3G	13263
1.500	0.3413T	4.920	45	1G	01807	1.535	0.2734	4.524	45	3G	01914
1.500	0.3413T	4.920	45	1G	01807S	1.535	0.2742	4.171	45	3G	10556

Valve Progressive Size Listing By Head Diameter

Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #
1.535	0.3114	4.500	35	1G	13103	1.575	0.3142	6.398	29	1G	13177S
1.535	0.3134	4.567	45	1G	10770	1.575	0.3142	6.398	29	1G	13178S
1.535	0.3150	7.264	29.5	1G	13192S	1.575	0.3150	6.961	45	1G	01579S
1.535	0.3163	5.383	44	3G	01546	1.575	0.3150	7.209	30	1G	02161S
1.535	0.3524	4.957	45	1G	13410	1.575	0.3518	4.840	45	1G	13096
1.535	0.3718T	5.112	45	2G	01780S	1.575	0.3531	6.315	30	3G	13370
1.535	0.3720	5.482	45	1G	01431S	1.575	0.3720	5.157	44	1G	01233
1.537	0.3110	5.730	45	MR	00100	1.584	0.3420	6.444	30	1G	00411
1.541	0.3414	5.070	44	1G	01877	1.584	0.3421	6.443	30	1G	00327
1.541	0.3415	5.070	45	1G	01237	1.587	0.3136	4.914	45	1G	13042
1.541	0.3565	5.070	45	1G	01237+15	1.587	0.3136	4.914	45	1G	13440
1.550	0.3093	4.539	30	1G	01882	1.589	0.3136	4.914	45	1G	13241S
1.550	0.3135	4.915	45	1G	01935R-155	1.594	0.3535	4.746	44.5	1G	13068
1.550	0.3726	5.016	45	1G	01320	1.594	0.3724	5.205	45	1G	02166
1.551	0.2348	4.186	44	3G	13467	1.594	0.4340	6.700	45	2G	00159
1.551	0.3136	4.915	45	1G	01935	1.595	0.3125	4.921	44.5	3G	13207
1.551	0.3136	4.915	45	1G	01935S	1.595	0.3718T	5.670	37	1G	01542
1.552	0.3126	5.139	45	3G	13195	1.595	0.3718T	5.674	37	1G	01542S
1.553	0.3161	4.429	45	1G	10744	1.595	0.3719T	5.674	38	1G	01754
1.555	0.2742	3.616	45	3G	10554S	1.595	0.3868T	5.674	37	1G	01542S+15
1.555	0.2748	3.616	45	3G	10733	1.598	0.3127	4.419	45	1G	01449
1.555	0.3126	4.845	45	3G	02220	1.598	0.3128	4.499	45	1G	01555
1.555	0.3136	5.207	45	1G	13433	1.599	0.3122	4.499	45	1G	01553
1.556	0.3429	8.497	30	1G	13001	1.600	0.3112	5.790	45	1G	01900S
1.556	0.3429	8.497	30	1G	13001S	1.600	0.3135	4.915	45	1G	01935R-160
1.556	0.3430	8.497	30	1G	01566	1.600	0.3413	4.700	45	2G	01395
1.559	0.3715	5.436	45	1G	01242	1.600	0.3415	4.904	45	2G	00919
1.559	0.3865	5.436	45	1G	01242+15	1.600	0.3415	4.925	45	1G	01952R
1.560	0.3419	4.810	44	1G	01177S	1.600	0.3415	5.025	45	1G	01954R
1.560	0.3419	4.810	45	1G	01358	1.600	0.3415	5.125	45	1G	02024R
1.560	0.3420	4.750	44.5	1G	01504	1.600	0.3415T	4.905	45	1G	01770R
1.560	0.3420	4.750	44.5	1G	01504S	1.600	0.3415T	5.005	45	1G	01771R
1.560	0.3569	4.810	44	1G	01177S+15	1.600	0.3712T	5.792	45	1G	01422S
1.560	0.3569	4.810	45	1G	01358+15	1.600	0.3714	5.787	45	1G	01944S
1.560	0.3570	4.750	44.5	1G	01504+15	1.600	0.3715	5.006	43	4G	01307
1.562	0.3422	4.728	44	1G	00970	1.600	0.3715	5.006	43	2G	01309
1.562	0.3704	4.954	45	1G	01381	1.600	0.3725T	4.889	45	4G	00520
1.563	0.3705	4.953	44.5	1G	01383SN	1.602	0.3093	4.502	45	1G	01881
1.563	0.3715	4.539	45	4G	00518	1.604	0.3414	6.352	45	2G	00691
1.563	0.3855	4.953	44.5	1G	01383SN+15	1.605	0.3788	5.565	30	1G	01420S
1.564	0.3121	5.826	30	1G	13002	1.609	0.3720	5.473	45	2G	00559S
1.570	0.3134	4.819	45	3G	10348	1.610	0.3419	4.787	44	4G	01528
1.570	0.3135	4.915	45	1G	01935R-157	1.610	0.3898	6.679	30	1G	13460
1.570	0.3165	4.158	44	1G	01285	1.610	0.3913	5.748	45	1G	10767S
1.573	0.3715	6.867	30	1G	01570	1.614	0.3140	4.528	30	1G	13411
1.573	0.3715	6.867	30	1G	21570	1.616	0.3524	4.843	30	1G	13219
1.573	0.3715	6.887	29.75	1G	01750	1.617	0.2744	4.224	45	1G	10270
1.573	0.3715	6.887	29.75	1G	21750	1.617	0.3716	4.995	45	2G	01417
1.573	0.3715	6.992	30	1G	02095	1.617	0.3716	4.995	45	2G	01675
1.573	0.3715	6.992	30	1G	22095	1.618	0.3518	5.709	45	1G	13424
1.575	0.2737	5.469	45	1G	10522	1.620	0.3524	4.842	45	1G	05002S
1.575	0.3125	4.560	45	1G	10216	1.620	0.3718	5.996	29	1G	01524
1.575	0.3130	4.820	45	1G	10274S	1.620	0.3725	4.774	45	2G	00567
1.575	0.3132	7.547	44.5	1G	13301S	1.620	0.3875	4.774	45	2G	00567+15
1.575	0.3133	7.543	39.5	3G	13378S	1.622	0.3423	4.675	30	1G	01324
1.575	0.3136	7.560	30	3G	13375S	1.622	0.3423	4.708	30	1G	01212
1.575	0.3137	7.559	29.5	1G	13300S	1.624	0.3115T	4.920	43.5	1G	01715
1.575	0.3138	4.291	45	1G	10772	1.624	0.3115T	5.743	43.5	1G	01782
1.575	0.3140	4.262	45	1G	10322	1.624	0.3422	4.695	44	1G	00974
1.575	0.3140	4.609	45	1G	10275	1.624	0.3520	5.578	45	1G	13092

Valve Progressive Size Listing By Head Diameter

Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #
1.624	0.3522	5.283	45	1G	13098	1.654	0.3569	4.983	45	1G	01271+15
1.625	0.3410	4.643	45	1G	00975	1.654	0.3715	6.806	30	1G	01572
1.625	0.3414	4.998	44	1G	01292	1.654	0.3717	6.850	45	2G	01581S
1.625	0.3415T	4.905	45	1G	01772R	1.655	0.3414	5.050	45	1G	01367
1.625	0.3418	5.246	44	1G	01083	1.655	0.3415	5.050	45	4G	01169
1.625	0.3720T	4.917	44	1G	01047	1.655	0.3564	5.050	45	1G	01367+15
1.625	0.3725	5.158	45	1G	01189	1.655	0.3565	5.050	45	4G	01169+15
1.625	0.4350	6.238	45	2G	00923	1.656	0.3161	4.258	45	1G	10061
1.634	0.3150	5.886	29.5	1G	13420	1.656	0.3163	4.134	45	1G	10385
1.634	0.3518	5.086	29.5	1G	13138	1.656	0.3313	4.134	45	1G	10385+15
1.634	0.3717	7.362	45	2G	13033	1.656	0.3715	5.844	45	2G	00203
1.634	0.3717	7.372	45	2G	13280	1.656	0.3715	6.083	45	2G	00427S
1.634	0.4339	5.700	44.5	1G	00530SN	1.656	0.3720	5.086	30	2G	00600
1.635	0.4340	5.702	44	1G	01346S	1.657	0.2744	4.945	45	1G	10281
1.638	0.3523	5.055	29.5	3G	13364	1.658	0.3140	4.899	45	1G	10268
1.639	0.3265T	4.920	43.5	1G	01715+15	1.660	0.3410	4.809	44	2G	01310
1.640	0.3410	4.877	44	2G	01072	1.660	0.3410	4.870	44	2G	01247
1.641	0.3406	5.532	30	2G	00867	1.660	0.3410	4.959	44	2G	01245
1.646	0.2760	4.085	44	1G	10213	1.660	0.3410	4.984	44	2G	01093
1.646	0.2760	4.085	44	1G	13168	1.660	0.3716	5.350	46	1G	01241SN
1.646	0.3717	5.997	44	2G	01145S	1.660	0.3716	5.367	20	1G	21235S
1.646	0.3717	7.132	44	2G	01468S	1.660	0.3716	5.367	45	1G	01235S
1.646	0.3717	7.140	20	2G	01632S	1.660	0.3718	5.367	45	1G	00996S
1.646	0.3717	7.250	45	2G	01831S	1.660	0.3868	5.367	45	1G	00996S+15
1.646	0.3717	7.621	19.25	2G	02258S	1.661	0.2750	4.637	45	3G	02046
1.646	0.3717	7.766	19.25	2G	13431S	1.661	0.3130	4.615	44	3G	01536
1.646	0.3717	7.953	44	2G	01912	1.661	0.3518	5.709	36	1G	13380
1.646	0.3717	7.953	44	2G	21912	1.663	0.3130	4.357	45	1G	10218
1.647	0.3418	5.931	44	1G	00609	1.665	0.3413	5.932	45	1G	01455
1.647	0.3420	5.090	45	1G	00376	1.670	0.3708	4.953	45	1G	01385SN
1.648	0.3139	4.583	44	1G	10015	1.670	0.3858	4.953	45	1G	01385SN+15
1.651	0.2743	4.035	45	3G	10373	1.672	0.3789	7.677	20	1G	13473
1.651	0.3103	4.260	44	1G	01268	1.673	0.3095	5.257	30	1G	01588
1.651	0.3708	6.017	29.5	1G	01525S	1.673	0.3130	4.315	45	1G	10087
1.652	0.3404	4.966	30	2G	13016	1.673	0.3157	4.656	30	1G	13055
1.652	0.3404	5.377	30	2G	13018	1.673	0.3789	6.940	30	1G	01531
1.652	0.3532	4.753	46	1G	10762	1.673	0.3789	6.944	30	1G	01658S
1.652	0.3720	6.063	45	1G	00593	1.673	0.3789	6.945	30	1G	01532
1.653	0.3401	4.345	45	1G	10752	1.673	0.3789	7.690	30	1G	01663
1.653	0.3719T	5.108	45	2G	01483S	1.673	0.3789	7.695	30	1G	01662S
1.654	0.3122	5.348	44.5	3G	13289	1.673	0.3789	7.695	30	1G	01662SNR
1.654	0.3122	5.348	44.5	3G	13291S	1.673	0.3793	6.945	30	1G	01720S
1.654	0.3129	5.236	44.5	1G	13054	1.675	0.3789	7.677	45	1G	13474
1.654	0.3130	5.236	30	1G	13051	1.679	0.3720	6.035	45	1G	00922
1.654	0.3136	7.555	24.5	3G	13377S	1.680	0.3122	5.799	37	1G	01786
1.654	0.3137	5.081	20	1G	01862	1.680	0.3122	5.805	30	1G	01785
1.654	0.3138	5.076	45	1G	01664	1.680	0.3720T	4.910	44	1G	01179
1.654	0.3138	5.076	45	1G	01664R	1.680	0.3720T	4.910	44	4G	01326
1.654	0.3138	5.135	45	1G	01801	1.680	0.3720T	4.930	44	1G	01257
1.654	0.3140	4.101	45	1G	10339SA	1.680	0.3864T	4.910	44	4G	01326+15
1.654	0.3163	5.306	45	3G	01452	1.684	0.3423	4.675	30	1G	01210
1.654	0.3415	4.980	45	1G	01832SN	1.687	0.3726	5.155	45	1G	01321
1.654	0.3419	4.983	44	1G	01547	1.688	0.3715	5.161	45	1G	00169
1.654	0.3419	4.983	44	1G	21547	1.688	0.3720	5.700	44	2G	00659
1.654	0.3419	4.983	45	1G	01271	1.688	0.3720	5.914	44	2G	01402
1.654	0.3420	5.080	44	1G	01102	1.688	0.3726	5.157	30	1G	00626
1.654	0.3516	5.537	45	1G	02238	1.689	0.3140	4.432	45	1G	10065
1.654	0.3524	4.890	45	1G	05004	1.689	0.3330	4.312	45	1G	10756
1.654	0.3565	4.980	45	1G	01832SN+15	1.689	0.3921	5.748	45	1G	10766
1.654	0.3569	4.983	44	1G	01547+15	1.692	0.2760	4.085	44	1G	10117

Valve Progressive Size Listing By Head Diameter

Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #
1.692	0.3142	4.543	45	1G	10048	1.732	0.3136	5.457	45	1G	01705
1.692	0.3330	4.318	45	2G	10754	1.732	0.3164	4.405	45	1G	10236
1.693	0.3136	4.323	45	1G	10141	1.732	0.3435	8.498	30	1G	01567
1.693	0.3136	5.456	45	1G	01569	1.732	0.3435	8.498	30	1G	13000
1.693	0.3137	4.024	45	1G	10147	1.732	0.3435	8.498	30	1G	13083S
1.693	0.3137	4.054	45	1G	10624	1.732	0.3531	4.630	45	1G	10768
1.693	0.3526	4.837	45	1G	05001	1.732	0.3543	7.717	29.5	1G	13176
1.693	0.3527	4.842	30	1G	13136	1.732	0.3907	6.689	20	1G	13459
1.693	0.3704	6.160	44	1G	01758	1.734	0.4145	5.479	45	2G	01133S
1.693	0.3717	7.839	45	2G	02160S	1.735	0.2747	4.191	44.5	3G	13141
1.694	0.3725	6.955	20	1G	01910S	1.735	0.2747	4.191	44.5	3G	13143
1.694	0.3725	6.955	30	1G	01571S	1.735	0.2750	4.787	45	3G	01743
1.694	0.3725	7.051	20	1G	13307S	1.735	0.3419	4.787	45	4G	01598
1.697	0.3717	9.705	29.5	1G	13382	1.736	0.3163	5.256	45	3G	02044
1.709	0.3415	5.050	44	4G	01171	1.736	0.3521	6.673	45	1G	13386S
1.710	0.3407	4.713	45	1G	01388	1.736	0.3521	6.770	45	1G	13391S
1.710	0.3407	4.726	45	1G	01711	1.736	0.3522	6.724	45	1G	13390S
1.710	0.3722	5.689	30	1G	01520	1.738	0.3138	4.580	45	1G	10056
1.712	0.3138	4.609	45	1G	13058	1.740	0.3722T	4.885	45	4G	01156
1.712	0.3163	4.089	44.5	1G	10387	1.740	0.3729	4.838	30	1G	13135
1.713	0.3313	4.094	45	1G	10387+15	1.740	0.3872T	4.885	45	4G	01156+15
1.715	0.3720	6.133	44	1G	01375	1.741	0.3729	4.838	45	1G	01783
1.715	0.3720	6.133	44	1G	21375	1.744	0.3730	4.829	45	1G	00883
1.715	0.3720	6.192	29	2G	01403	1.745	0.4025	7.058	30	2G	00326S
1.715	0.3720	6.208	29	1G	01377	1.745	0.4025	7.108	15	2G	01656S
1.715	0.3720	6.208	29	1G	21377	1.750	0.3428	4.667	44	1G	01450
1.715	0.3720	6.227	45	2G	01288	1.750	0.3720	6.128	29	2G	01404
1.718	0.3139	4.682	45	1G	02057	1.750	0.4025T	6.428	45	2G	01511
1.718	0.3139	4.713	45	1G	01810	1.750	0.4025T	6.428	45	2G	01650S
1.718	0.3410	4.845	45	2G	00298	1.751	0.3103	4.260	45	1G	01357
1.718	0.3413	4.705	45	2G	01481	1.752	0.2748	4.756	45	3G	01924
1.718	0.3563	4.705	45	2G	01481+15	1.752	0.2750	4.607	45	3G	01699
1.718	0.4340	6.670	45	2G	00160	1.752	0.2750	4.622	45	3G	01699S
1.720	0.3135	4.394	45	1G	01551	1.752	0.2750	4.752	45	3G	01924S
1.720	0.3135	4.591	45	1G	01592	1.752	0.3527	4.965	30	1G	13409
1.720	0.3285	4.394	45	1G	01551+15	1.752	0.3789	7.677	20	1G	13471
1.720	0.3285	4.591	45	1G	01592+15	1.752	0.3789	7.677	20	1G	13472
1.720	0.3413	4.917	45	2G	00399	1.753	0.3714	5.393	44	1G	01057S
1.720	0.3413	4.917	45	2G	01193	1.753	0.3715	5.393	44	1G	00949
1.720	0.3419	5.078	45	2G	01362	1.753	0.3715	5.393	45	1G	00918
1.720	0.3420	4.917	45	2G	01194	1.753	0.3864	5.393	44	1G	01057S+15
1.720	0.3443	4.917	45	2G	01193+3	1.756	0.3715	7.417	30	2G	13032
1.720	0.3563	4.917	45	2G	00399+15	1.756	0.3715	7.417	30	2G	13151
1.720	0.3563	4.917	45	2G	01193+15	1.760	0.3138	4.684	45	1G	02172
1.720	0.3711	5.395	45	1G	02126S	1.760	0.3139	4.684	45	1G	01929
1.720	0.3715	5.355	45	1G	01106	1.770	0.3134	4.494	45	1G	10328A
1.720	0.3716	5.355	45	1G	01261S	1.770	0.3410	4.875	44	2G	01215
1.720	0.3716	5.355	45	1G	01578S	1.770	0.3410	4.975	44	2G	01160
1.720	0.3865	5.355	45	1G	01106+15	1.770	0.3410	5.093	44	2G	01097
1.720	0.3866	5.355	45	1G	01261S+15	1.771	0.3717	5.997	44	2G	01146S
1.725	0.3715T	5.347	45	1G	01776R	1.771	0.3717	6.563	29	2G	00753S
1.727	0.3723	6.042	45	2G	01648	1.771	0.3717	7.140	20	2G	01857S
1.728	0.3132	5.039	29.75	1G	13387	1.771	0.3717	7.140	29	2G	01462S
1.728	0.3134	5.039	45	1G	13383	1.771	0.3717	7.250	30	2G	01830S
1.731	0.4025	7.245	45	1G	00678	1.771	0.3717	7.621	19.25	2G	02259S
1.732	0.2742	5.465	45	1G	01736	1.771	0.3717	7.766	19.25	2G	13430S
1.732	0.2746	5.265	45	1G	01902	1.771	0.3720	6.563	30	2G	00754
1.732	0.3128	5.276	30	1G	13392	1.771	0.3725	6.846	20	1G	01573S
1.732	0.3129	4.725	29.75	1G	13063	1.772	0.3138	5.084	30	1G	01665
1.732	0.3135	4.350	45	3G	10406	1.772	0.3138	5.084	30	1G	01665R

Valve Progressive Size Listing By Head Diameter

Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #
1.772	0.3138	5.085	20	1G	02257	1.811	0.3413	5.932	30	1G	01456
1.772	0.3524	5.034	45	1G	10725	1.811	0.3526	5.030	45	1G	13115
1.772	0.3529	4.886	45	1G	05003	1.811	0.3725	4.979	45	2G	01186
1.772	0.3717	6.850	30	2G	01582	1.811	0.3736	5.937	45	1G	01666
1.772	0.3717	6.850	30	2G	01582S	1.811	0.3736	5.942	20	1G	02254
1.772	0.3720	5.157	44	1G	01234	1.811	0.3736	5.942	20	1G	02254S
1.772	0.3720	5.312	44	2G	01306	1.811	0.3924	7.799	44.5	1G	13452
1.772	0.3729	4.836	45	1G	01887	1.812	0.3103	4.502	30	1G	01880
1.772	0.3730	4.839	30	1G	05000	1.812	0.3715	5.848	45	2G	00204
1.776	0.3522	6.697	30	1G	13389	1.812	0.3715	6.083	45	2G	00428
1.776	0.3523	6.673	30	1G	13385	1.813	0.3910	7.537	44.5	1G	13435S
1.778	0.3717	9.705	30	1G	13355S	1.815	0.3905	5.193	45	1G	13118S
1.780	0.3419	4.750	45	1G	01875	1.821	0.3720	5.167	30	2G	01471S
1.780	0.3420	4.810	45	1G	01120	1.823	0.3529	5.086	29.5	1G	13137
1.780	0.3420	4.873	44.5	1G	01001	1.830	0.3133	4.724	45	1G	13013
1.780	0.3421	5.110	45	1G	00373	1.830	0.3522	5.551	30	1G	02239
1.780	0.3570	4.810	45	1G	01120+15	1.830	0.3543	7.716	30	1G	01889
1.780	0.3570	4.873	44.5	1G	01001+15	1.831	0.3529	5.083	45	3G	13363
1.780	0.3725	4.979	45	2G	00938	1.835	0.3100	5.278	30	1G	01589
1.780	0.3725	9.449	19.5	1G	13381	1.839	0.3718	6.016	29	1G	01526
1.780	0.3875	4.979	45	2G	00938+15	1.840	0.3413	4.880	45	1G	01806
1.781	0.3139	4.072	45	1G	10761	1.840	0.3413	4.912	45	2G	01393
1.781	0.3419	4.750	44	1G	01792	1.840	0.3563	4.912	45	2G	01393+15
1.781	0.3420	4.750	44.5	1G	01505	1.840	0.3720	5.235	45	1G	00997
1.781	0.3420	4.810	45	1G	00963	1.840	0.4365	7.781	44	TA	00319
1.781	0.3420	4.863	45	1G	00947	1.842	0.3419	5.070	44	1G	01701
1.781	0.3420	5.050	45	1G	01137	1.842	0.3420	5.070	45	1G	01238
1.781	0.3570	4.750	44.5	1G	01505+15	1.842	0.3570	5.070	45	1G	01238+15
1.781	0.3570	5.050	45	1G	01137+15	1.842	0.3718	5.742	30	1G	01694
1.781	0.3720	5.072	30	2G	00601	1.844	0.3725	4.599	45	2G	00514
1.782	0.2750	4.840	44.5	3G	01790	1.845	0.3734	5.215	45	1G	02167
1.782	0.3419	5.070	45	1G	01328	1.850	0.3150	6.971	29	1G	02231
1.782	0.3420	4.942	44	1G	01538	1.850	0.3150	6.976	30	1G	01580
1.782	0.3449	5.070	45	1G	01328+3	1.850	0.3532	5.096	30	1G	13057
1.782	0.3569	5.070	45	1G	01328+15	1.850	0.3717	7.951	29	2G	01911
1.784	0.3714	5.147	44	1G	01382	1.850	0.3717	7.951	29	2G	21911
1.784	0.3714	5.147	44	1G	01384S	1.850	0.3720	6.174	30	1G	01586
1.784	0.3864	5.147	44	1G	01384S+15	1.850	0.3720	6.174	30	1G	21586
1.786	0.3714	5.992	45	1G	01946S	1.850	0.3924	7.845	29.5	1G	13451
1.786	0.3722	5.992	30	1G	01945	1.854	0.3139	4.657	45	1G	13065
1.787	0.3720	4.899	29	4G	00550	1.856	0.3725	9.449	20.5	1G	13354
1.787	0.3720	4.899	29	4G	01260	1.861	0.2750	4.840	45	3G	01789
1.787	0.3720	4.899	29	1G	01442	1.870	0.3136	4.835	45	1G	13043
1.790	0.3789	8.810	45	1G	02263S	1.870	0.3715	6.160	30	1G	01757
1.790	0.3789	8.810	45	1G	13309S	1.870	0.3789	7.723	30	1G	01660
1.791	0.3128	4.949	45	2G	01671	1.870	0.3789	7.726	30	1G	01659S
1.791	0.3128	5.021	45	2G	01904	1.870	0.3789	7.726	30	1G	01661S
1.791	0.3520	5.709	30	1G	13379	1.870	0.3789	7.726	30	1G	21661S
1.791	0.3526	4.872	30	1G	13095	1.870	0.3789	7.726	45	1G	01847S
1.800	0.3134	4.721	45	1G	01858	1.870	0.3789	7.750	20	1G	01756
1.804	0.3715T	5.683	45	2G	01497S	1.870	0.3789	8.503	20	1G	02262
1.804	0.3715T	5.693	45	2G	01378	1.870	0.3789	8.503	20	1G	13308
1.805	0.3714	5.743	45	1G	01654	1.870	0.4505	6.605	30	2G	00702
1.805	0.4342	6.101	44	1G	01506S	1.870	0.4505	6.605	30	2G	00703
1.810	0.3134	4.250	45	1G	10145	1.870	0.4505	7.063	30	2G	00602
1.811	0.2744	4.524	45	3G	01913	1.870	0.4505	7.063	30	2G	00602S
1.811	0.3128	5.276	30	1G	13393	1.870	0.4505	7.063	30	2G	00603
1.811	0.3137	4.195	45	1G	10143	1.875	0.3415	6.391	30	2G	00308
1.811	0.3142	4.917	45	3G	10070	1.875	0.3427	4.740	44	1G	00969
1.811	0.3413	5.108	45	2G	01484	1.875	0.3428	4.667	44	1G	01263

Valve Progressive Size Listing By Head Diameter

Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #
1.875	0.3718	5.355	45	1G	01131	1.940	0.3444	4.880	45	2G	01195+3
1.875	0.3725	5.009	45	1G	01082	1.940	0.3563	4.880	45	1G	01931+15
1.875	0.4340	6.561	44	1G	01406	1.940	0.3564	4.880	45	2G	01195+15
1.875	0.4342	6.655	29	1G	21412	1.940	0.3720	5.230	45	1G	01087
1.875	0.4342	6.655	30	1G	01412	1.940	0.3870	5.230	45	1G	01087+15
1.875	0.4505	7.115	20	2G	01721S	1.940	0.4350	6.150	45	2G	00924
1.875	0.4505	7.115	20	2G	01721S-OEM	1.960	0.3415	4.980	44	2G	01296
1.877	0.3719	5.687	30	1G	01543	1.969	0.3523	5.549	45	1G	02237
1.877	0.3869	5.697	30	1G	01543+15	1.969	0.3725	5.223	45	2G	00560
1.880	0.3415	5.420	45	1G	02043R	1.970	0.3124	5.789	30	1G	01899
1.880	0.3415	5.520	45	1G	01962R	1.970	0.3720	5.796	30	1G	01423
1.880	0.3415T	5.347	45	1G	02062R	1.970	0.3722	5.787	30	G3	01943
1.880	0.3415T	5.447	45	1G	02061R	1.970	0.3722	5.992	30	1G	02131
1.880	0.3715	5.420	45	1G	01960R	1.977	0.3419	5.198	44	1G	01548S
1.880	0.3715	5.520	45	1G	01961R	1.978	0.3419	5.180	44	1G	01548
1.880	0.3715T	5.347	45	1G	01777R	1.978	0.3569	5.180	44	1G	01548+15
1.880	0.3720	4.981	45	4G	01273	1.995	0.3427	4.707	44	1G	01457
1.880	0.3725	4.981	45	2G	01180	2.000	0.3127	4.929	45	3G	02103
1.880	0.3875	4.981	45	2G	01180+15	2.000	0.3135	4.870	45	1G	02000R-200
1.881	0.3715	5.349	45	1G	01600	2.000	0.3135	4.870	45	1G	13244
1.884	0.3520	5.608	30	1G	13091	2.000	0.3136	4.869	45	1G	02000
1.884	0.3522	5.294	30	1G	13097	2.000	0.3136	4.869	45	1G	02267
1.886	0.3907	5.669	45	1G	13094S	2.000	0.3416	4.985	44	1G	01293
1.889	0.4955	6.864	30	1G	01446	2.000	0.3420	5.233	44	1G	01084
1.889	0.4955	6.864	30	1G	21446	2.000	0.3725	5.138	45	1G	01105
1.889	0.4960	6.864	30	1G	21037	2.000	0.3733	4.791	45	1G	00302
1.890	0.2734	4.969	45	4G	01993	2.000	0.4025	6.428	30	2G	01826
1.890	0.3136	4.869	45	1G	01934	2.000	0.4025	6.428	45	2G	01512
1.890	0.3136	4.869	45	1G	01934S	2.000	0.4965	7.863	30	1G	01474S
1.890	0.4960	6.864	30	1G	01037	2.000	0.4965	7.863	44	1G	00982S
1.895	0.3717	6.563	29	2G	00755	2.005	0.4960	8.128	45	2G	00819S
1.896	0.3717	5.300	30	2G	01761S	2.008	0.3730	6.060	30	1G	01587
1.896	0.3717	5.467	29	2G	01491S	2.020	0.3135	4.870	45	1G	02000R-202
1.896	0.3717	5.469	29	2G	01203	2.020	0.3415	4.880	45	2G	00988
1.896	0.3717	5.469	29	2G	01205S	2.020	0.3415	4.898	45	1G	01763R
1.896	0.3717	6.395	30	2G	01630S	2.020	0.3415	4.998	45	1G	01764R
1.902	0.3720	6.148	44	2G	01336S	2.020	0.3717	5.350	30	2G	01760S
1.902	0.3720	6.245	44	2G	01289	2.020	0.3717	5.510	29	2G	01204
1.910	0.3114	4.911	46	3G	01916	2.020	0.3717	5.510	29	2G	01314S
1.910	0.3115	4.912	44	1G	01479	2.020	0.3717	6.437	30	2G	01631S
1.910	0.3115	4.912	44	1G	01557	2.020	0.4353	5.742	44	1G	00531S
1.910	0.3264	4.911	46	3G	01916+15	2.025	0.3720	4.899	29	1G	01048
1.910	0.3265	4.912	44	1G	01557+15	2.025	0.3720	4.899	29	4G	01258
1.915	0.2734	4.481	44.5	3G	13251	2.025	0.3870	4.899	29	4G	01258+15
1.915	0.2734	4.481	45	3G	01918	2.027	0.3716	5.446	30	1G	00585
1.920	0.3115	4.906	44	1G	01714	2.027	0.3716	5.446	45	1G	00637
1.920	0.3115	5.728	43.5	1G	01781	2.027	0.3866	5.446	45	1G	00637+15
1.920	0.3265	4.906	44	1G	01714+15	2.028	0.4365	7.788	44	TA	00318
1.920	0.3411	4.898	29	2G	00958	2.031	0.4342	6.661	20	1G	01590S
1.924	0.3728	6.020	45	2G	01649	2.041	0.3419	5.231	45	4G	01170
1.925	0.3421	5.110	44	1G	00494	2.041	0.3419	5.231	45	1G	01380
1.929	0.3136	5.211	45	1G	13432	2.041	0.3569	5.231	45	4G	01170+15
1.929	0.3912	5.275	30	1G	13117	2.041	0.3569	5.231	45	1G	01380+15
1.931	0.3920	7.594	24.5	1G	13434S	2.047	0.3736	5.946	30	1G	01667
1.940	0.3413	4.880	45	1G	01931	2.047	0.3736	5.952	20	1G	02255
1.940	0.3414	4.880	45	2G	00696	2.047	0.3736	5.952	20	1G	02255S
1.940	0.3414	4.880	45	2G	01195	2.050	0.3127	5.165	44.5	3G	13194
1.940	0.3415	4.898	45	1G	01762R	2.050	0.3135	4.870	45	1G	02000R-205
1.940	0.3415	5.025	45	1G	02026R	2.054	0.3725	5.467	44	1G	01432
1.940	0.3415T	5.447	45	1G	02059R	2.055	0.3415	4.898	45	1G	01765R

Valve Progressive Size Listing By Head Diameter

Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #
2.055	0.3415	4.998	45	1G	01766R	2.350	0.4955	9.390	29	TA	00751S
2.064	0.3714	5.147	44	1G	01386S	2.375	0.4965	7.863	29	1G	00983
2.064	0.3864	5.147	44	1G	01386S+15	2.402	0.4697	9.724	30	1G	13447
2.065	0.3715	5.220	45	1G	02021R	2.505	0.3717	9.390	30	2G	01461S
2.065	0.3720	5.230	45	1G	01107	2.505	0.4955	9.388	29	TA	00752S
2.065	0.3870	5.230	45	1G	01107+15	2.557	0.4970	8.125	30	2G	00734
2.072	0.3427	4.688	30	1G	01002	2.645	0.4970	8.820	30	2G	00555
2.078	0.3725	5.250	30	2G	01152						
2.079	0.3125	4.961	44.5	3G	13206						
2.080	0.3415	4.898	45	1G	01767R						
2.080	0.3415	4.998	45	1G	01768R						
2.080	0.3415	5.125	45	1G	02029R						
2.080	0.3725	4.869	45	2G	00548						
2.083	0.3419	5.175	44.5	1G	01723						
2.083	0.3419	5.198	45	1G	01272						
2.083	0.3420	5.288	45	1G	01103						
2.083	0.3569	5.198	45	1G	01272+15						
2.087	0.3720	6.594	37	1G	01716						
2.087	0.3730	6.536	29	1G	01717S						
2.094	0.3725	5.698	30	2G	01379						
2.106	0.3127	5.425	44.5	3G	13288						
2.106	0.3127	5.425	44.5	3G	13290S						
2.110	0.3415	4.880	29	2G	01216						
2.110	0.3415	4.979	29	2G	01161						
2.110	0.3415	5.098	29	2G	01098						
2.125	0.3912	5.705	30	1G	13093						
2.157	0.4345	6.099	14	1G	01507						
2.157	0.4345	6.099	45	1G	01508						
2.165	0.3135	4.870	45	1G	13040						
2.165	0.3135	4.870	45	1G	13240						
2.165	0.3135	4.890	45	1G	13239						
2.187	0.3717	5.224	45	1G	02101						
2.190	0.3420	5.231	44	4G	01172						
2.190	0.3715	5.320	45	1G	01964R						
2.190	0.3720	5.225	45	1G	01164						
2.190	0.3720	5.230	45	1G	01773R						
2.205	0.3717	8.622	19	2G	01804						
2.205	0.3717	8.622	20	2G	01584S						
2.205	0.3717	8.622	30	2G	01498S						
2.205	0.3717T	8.622	45	2G	01805S						
2.205	0.4950	8.622	45	1G	02168S						
2.220	0.4948	7.545	30	1G	01533S						
2.220	0.4948	7.545	30	1G	01734						
2.220	0.4950	7.545	30	1G	01534						
2.220	0.4950	7.550	30	1G	01738S						
2.220	0.4950	7.550	30	1G	13427						
2.227	0.4960	8.820	45	2G	00554						
2.245	0.4970	6.859	30	1G	01036S						
2.245	0.4970	6.864	30	1G	01415S						
2.250	0.3415	5.330	45	1G	02064R						
2.250	0.3720	5.230	45	1G	01774R						
2.282	0.3717T	9.266	45	2G	01458S						
2.282	0.4955	9.264	45	TA	00574S						
2.300	0.3415	5.330	45	1G	02063R						
2.300	0.3720	5.230	45	1G	01775R						
2.323	0.4685	9.724	45	1G	13448S						
2.343	0.3717	9.297	45	1G	01459S						
2.343	0.4955	9.295	45	TA	00852S						
2.350	0.3717T	9.391	30	2G	01460S						
2.350	0.3717T	9.392	30	2G	01476S						

Valve Keeper Numerical Listing

SBI Part #	Length	Bead Type	I.D.
121-1000	0.3710	2 RD	0.3710
121-1001	0.3700	2 RD	0.3350
121-1002	0.4055	No Bead	0.3025
121-1003	0.3770	1 SQ	0.3365
121-1006	0.3720	2 RD	0.4330
121-1007	0.3735	1 SQ	0.3750
121-1009	0.5045	1 SQ	0.4280
121-1010	0.5015	PIN	N/A
121-1011	0.3780	1 SQ	0.3075
121-1014	0.3900	4 RD	0.3275
121-1017	0.3750	1 SQ	0.2450
121-1018	0.4360	1 RD	0.3600
121-1019	0.3915	4 RD	0.2950
121-1020	0.3565	1 RD	0.3015
121-1021	0.3450	1 RD	0.3100
121-1023	0.2935	1 SQ	0.3125
121-1026	0.2520	1 RD	0.3150
121-1027	0.3900	1 RD	0.3730
121-1030	0.5485	No Bead	0.3760
121-1031	0.2950	1 RD	0.2460
121-1034	0.3500	1 SQ	0.3100
121-1039	0.2975	1 RD	0.3040
121-1047	0.3175	1 SQ	0.3060
121-1048	0.2980	1 RD	0.2640
121-1049	0.5000	1 SQ	0.3990
121-1051	0.4375	1 RD	0.2930
121-1052	0.3960	4 RD	0.2600
121-1054	0.2450	1 RD	0.2515
121-1058	0.2485	1 RD	0.2210
121-1059	0.2730	1 RD	0.2700
121-1060	0.2190	1 RD	0.2090
121-1061	0.2730	1 RD	0.2700
121-1062	0.2780	1 RD	0.2700
121-1063	0.2530	1 RD	0.2310
121-1064	0.2490	1 RD	0.2065
121-1065	0.1230	No Bead	0.2470
121-1067	0.3085	1 SQ	0.2700
121-1069	0.4960	1 SQ	0.4950
121-1071	0.3740	2 RD	0.3085
121-1072	0.3740	1 RD	0.2715
121-1073	0.3720	1 RD	0.3720
121-1074	0.2200	1 RD	0.2300
121-1076	0.3870	1 RD	0.3730
121-1078	0.3480	1 RD	0.3000
121-1079	0.3800	1 RD	0.3000
121-1080	0.3470	1 RD	0.3420
121-1081	0.2870	1 RD	0.2260
121-1082	0.2750	3 RD	0.1800
121-1083	0.2940	3 RD	0.2550
121-1084	0.2900	3 RD	0.2180
121-1085	0.2900	1 RD	0.3100
121-1086	0.2980	1 RD	0.2280
121-1087	0.2900	3 RD	0.1750
121-1089	0.3890	4 RD	0.2180
121-1090	0.3460	1 RD	0.2750
121-1091	0.2980	1 RD	0.3720
121-1093	0.2900	3 RD	0.2100
121-1094	0.3750	1 SQ	0.3750
121-1095	0.5000	1 SQ	0.4850
121-1096	0.2950	1 RD	0.2050
121-1097	0.3770	1 RD	0.2750

Valve Keeper Numerical Listing

SBI Part #	Length	Bead Type	I.D.
121-1098	0.2050	3 RD	0.2340
121-1099	0.2220	1 RD	0.2340
121-1100	0.2180	1 RD	0.2150
121-1101	0.2050	1 RD	0.2350
121-1102	0.2980	1 RD	0.2340
121-1103	0.2180	1 RD	0.2150
121-1104	0.2200	1 RD	0.2150
121-1105A	0.2720	1 RD	0.2720
121-1107	0.2230	1 RD	0.2340
121-1108	0.2150	1 RD	0.2150
121-1118	0.3750	1 RD	0.3450
121-1123	0.3850	1 RD	0.3050
121-1126	0.3850	1 RD	0.3720
121-1127	0.1955	1 RD	0.2350
121-1128	0.2945	3 RD	0.2110
121-1129	0.2250	1 RD	0.2250
121-1130	0.2100	1 RD	0.1950
121-1131	0.1980	3 RD	0.1990
121-1132	0.3800	1 RD	0.3000
121-1133	0.2950	3 RD	0.2975
121-1134	0.3200	1 SQ	0.3050
121-1135	0.3880	1 RD	0.3450
121-1137	0.3750	1 SQ	0.2650
121-1138	0.4350	1 SQ	0.3000
121-1139	0.4530	1 SQ	0.3450
121-1140	0.2000	3 RD	0.2170
121-1141	0.3760	1 RD	0.2950
121-1142	0.3850	1 RD	0.3400
121-1143	0.1970	3 RD	0.2378
121-1144	0.1970	3 RD	0.1984
121-1145	0.3720	1 RD	0.3830
121-1146	0.2990	1 RD	0.2740

Valve Stem Seal Numerical Listing

SBI Part #	Style	Type	Nominal Stem Dia.	Top Stem I.D.	Overall Height	Inner Seal Height	Bottom Seal I.D.	Nominal Guide O.D.	Material
122-1003	Umbrella	Umbrella	3/8	0.3590	0.8050	0.6000	0.7355	N/A	Nitrile
122-1005	Umbrella	Umbrella	3/8	0.3160	0.7200	0.5000	0.7500	N/A	Rubber
122-1006	Ring & Band	Positive	11/32	0.3071	0.4921	0.3150	0.4921	0.502-0.531	Rubber
122-1007	Umbrella	Umbrella	3/8	0.3100	0.7620	0.6370	0.6870	N/A	Nitrile
122-1009	1-Ring	Positive	5/16	0.2950	0.5045	0.3340	0.4585	0.475-0.531	Tef/Rub
122-1011	1-Ring	Positive	3/8	0.3543	0.5079	0.3465	0.4490	0.475-0.531	Tef/Rub
122-1014	1-Ring	Positive	11/32	0.3340	0.5075	0.3450	0.5200	0.531-0.562	Tef/Rub
122-1015	1-Ring	Positive	3/8	0.3650	0.5100	0.3450	0.5200	0.531-0.562	Tef/Rub
122-1017	1-Ring	Positive	3/8	0.3630	0.5065	0.3375	0.5520	0.562-0.600	Tef/Rub
122-1023	O-Ring	O-Ring	3/8	0.3080	0.0680	N/A	N/A	N/A	Poly
122-1031	2-Ring	Positive	3/8	0.3425	0.4525	0.3070	0.5800	0.625-0.660	Poly
122-1032	Umbrella	Umbrella	11/32	0.3200	0.4500	0.3040	0.8075	N/A	Poly
122-1033	Umbrella	Umbrella	3/8	0.3460	0.7900	0.3850	0.7640	N/A	Poly
122-1034	Umbrella	Umbrella	5/16	0.2920	0.6950	0.4915	0.7280	N/A	Poly
122-1035	Umbrella	Umbrella	5/16	0.2850	0.5900	0.4000	0.7500	N/A	Poly
122-1036	Umbrella	Umbrella	3/8	0.3307	0.6378	0.3937	0.7560	N/A	Poly
122-1037	Umbrella	Umbrella	11/32	0.3200	0.5600	0.4510	0.6845	N/A	Poly
122-1038	Umbrella	Umbrella	11/32	0.3150	0.7150	0.5125	0.6430	N/A	Poly
122-1039	1-Spring	Positive	9/32	0.2650	0.3650	0.2545	0.4550	0.475-0.515	Poly
122-1040	2-Ring	Positive	11/32	0.3120	0.3000	0.4600	0.5550	0.562-0.600	Poly
122-1041	Umbrella	Umbrella	11/32	0.3200	0.6850	0.5485	0.7565	N/A	Poly
122-1043	O-Ring	O-Ring	5/16	0.2740	0.0750	N/A	N/A	N/A	Nitrile
122-1045	Umbrella	Umbrella	3/8	0.3200	0.8700	0.6970	0.6695	N/A	Poly
122-1046	All Rubber	Positive	3/8	0.3450	0.5700	0.4040	0.5500	0.562-0.600	Poly
122-1047	2-Ring	Positive	11/32	0.3150	0.4525	0.3050	0.4750	0.475-0.515	Poly
122-1048	2-Ring	Positive	11/32	0.3050	0.4850	0.3235	0.5050	0.510-0.562	Poly
122-1051	Umbrella	Umbrella	11/32	0.3230	0.3230	0.1810	0.8800	N/A	Poly
122-1052	Ring & Band	Positive	5/16	0.3000	0.4905	0.3520	0.4750	0.475-0.531	Viton
122-1053	Ring & Band	Positive	8 mm	0.2950	0.4930	0.3375	0.4700	0.475-0.531	Viton
122-1059	Umbrella	Umbrella	3/8	0.3680	0.7030	0.5200	0.8170	N/A	GF Nylon
122-1063	All Rubber	Positive	3/8	0.3500	0.5610	0.4335	0.5500	0.562-0.600	Viton
122-1065	Ring & Band	Positive	7.5 mm	0.2920	0.4875	0.3150	0.4920	0.500-0.531	Viton
122-1066	Ring & Band	Positive	7.5 mm	0.2920	0.4875	0.3120	0.4820	0.500-0.531	Viton
122-1067	Metal Clad	Positive	8 mm	0.2900	0.4250	0.3150	0.4580	0.475-0.480	Viton
122-1069	Ring & Band	Positive	5/16	0.2920	0.4800	0.3060	0.4630	0.475-0.500	Viton
122-1073	Metal Clad	Positive	7 mm	0.2540	0.3910	0.3020	0.4120	0.434-0.439	Viton
122-1074	Ring & Band	Positive	11/32	0.2992	0.5492	0.3811	0.4468	0.475-0.531	Viton
122-1075	Ring & Band	Positive	11/32	0.3130	0.4900	0.3220	0.4940	0.500-0.531	Viton
122-1077	Ring & Band	Positive	5/16	0.3000	0.4500	0.2770	0.4250	0.460-0.510	Viton
122-1079	All Rubber	Positive	5/16	0.2940	0.5490	0.4600	0.4250	0.439-0.475	Viton
122-1082	Metal Clad	Positive	8 mm	0.2900	0.5390	0.4295	0.4680	0.475-0.485	Viton
122-1086	Metal Clad	Positive	5/16	0.2795	0.5120	0.3620	0.5120	0.520-0.530	Viton
122-1088	Metal Clad	Positive	7.5 mm	0.2820	0.4040	0.2680	0.5100	0.511-0.520	Viton
122-1089	Metal Clad	Positive	8 mm	0.2820	0.3960	0.3120	0.4120	0.420-0.430	Viton
122-1114	Metal Clad	Positive	6.5 mm	0.2204	0.4800	0.2950	0.4610	0.475-0.485	Viton
122-1116	Metal Clad	Positive	8 mm	0.2840	0.5394	0.4016	0.4700	0.475-0.485	ACM
122-1119	Ring & Spring	Positive	7.5 mm	0.2638	0.5634	0.3374	0.4165	0.439-0.475	Viton
122-1125	Metal Clad	Positive	8 mm	0.2800	0.4685	0.3150	0.5512	0.552-0.562	Viton
122-1127	Metal Clad	Positive	8 mm	0.2795	0.4055	0.2400	0.5060	0.512-0.517	Viton
122-1130	Metal Clad	Positive	7 mm	0.2276	0.4449	0.2913	0.4409	0.450-0.460	Viton
122-1132	Metal Clad	Positive	8 mm	0.2800	0.5035	0.3510	0.5470	0.552-0.557	Viton
122-1136	Ring & Spring	Positive	6.5 mm	0.2400	0.3420	0.2177	0.4170	0.439-0.475	Viton
122-1137	Metal Clad	Positive	5/16	0.2780	0.6417	0.4606	0.4840	0.485-0.495	Viton
122-1139	Metal Clad	Positive	7 mm	0.2310	0.5050	0.2756	0.4260	0.430-0.440	Viton
122-1141	Metal Clad	Positive	7 mm	0.2520	0.5906	0.4365	0.4670	0.468-0.475	Viton
122-1142	Metal Clad	Positive	9/32	0.2520	0.3819	0.2165	0.4720	0.475-0.485	Viton
122-1147	Metal Clad	Positive	6 mm	0.2160	0.4016	0.2362	0.4250	0.426-0.439	Viton
122-1149	Metal Clad	Positive	9/32	0.2520	0.5118	0.3622	0.4720	0.475-0.485	Viton
122-1150	Metal Clad	Positive	6 mm	0.2080	0.4500	0.2910	0.3860	0.387-0.396	Viton
122-1152	Metal Clad	Positive	6.5 mm	0.2340	0.3950	0.2550	0.4720	0.475-0.485	Viton
122-1155	Metal Clad	Positive	5.5 mm	0.1860	0.3720	0.2470	0.3580	0.359-0.369	Viton

Valve Stem Seal Numerical Listing

SBI Part #	Style	Type	Nominal Stem Dia.	Top Stem I.D.	Overall Height	Inner Seal Height	Bottom Seal I.D.	Nominal Guide O.D.	Material
122-1158	Metal Clad	Positive	6.5 mm	0.2400	0.4528	0.2756	0.4130	0.414-0.419	Viton
122-1159	Metal Clad	Positive	8 mm	0.2740	0.4528	0.2756	0.4650	0.466-0.475	Viton
122-1162	Metal Clad	Positive	5.5 mm	0.1850	0.4530	0.2760	0.3650	0.368-0.376	Viton
122-1163	Metal Clad	Positive	8 mm	0.2820	0.5196	0.3560	0.5060	0.507-0.515	Viton
122-1165	Metal Clad	Positive	6 mm	0.2040	0.4331	0.2677	0.4290	0.430-0.439	Viton
122-1177	Oil Shield	Umbrella	3/8	0.3820	0.2120	0.0390	0.5710	N/A	Nylon
122-1180	Metal Clad	Positive	6 mm	0.2120	0.3150	0.1969	0.4300	0.431-0.439	Viton
122-1181	Metal Clad	Positive	6 mm	0.2120	0.3150	0.1969	0.4300	0.431-0.439	Viton
122-1187	Metal Clad	Positive	7 mm	0.2550	0.4252	0.2810	0.4640	0.465-0.475	Viton
122-1189	All Teflon	Positive	5/16	0.2950	0.5165	0.3550	0.3900	0.410-0.420	Teflon
122-1196	2-Ring	Positive	11/32	0.3310	0.4815	0.3135	0.5250	0.531-0.562	Nitrile
122-1198	Metal Clad	Positive	9/32	0.2450	0.5118	0.3543	0.5060	0.507-0.515	Viton
122-1199	Metal Clad	Positive	11/32	0.3080	0.5827	0.4252	0.5490	0.550-0.562	Viton
122-1200	Metal Clad	Positive	11/32	0.3080	0.5827	0.4311	0.5461	0.550-0.562	Viton
122-1201	Metal Clad	Positive	7/32	0.1920	0.3898	0.2480	0.4330	0.434-0.439	Viton
122-1202	Metal Clad	Positive	7/32	0.1920	0.3898	0.2480	0.4330	0.434-0.439	Viton
122-1203	Metal Clad	Positive	11/32	0.3060	0.4180	0.2635	0.4820	0.485-0.500	Viton
122-1204	Metal Clad	Positive	5/16	0.2850	0.5118	0.3543	0.5250	0.526-0.531	Viton
122-1205	Metal Clad	Positive	5/16	0.2795	0.5118	0.3642	0.5177	0.526-0.531	Viton
122-1206	Top Hat	Positive	8 mm	0.2750	0.7165	0.5100	0.4645	0.470-0.480	Viton
122-1207	1-Ring	Positive	1/2	0.4900	0.5000	0.3300	0.6480	0.650-0.690	Tef/Rub
122-1212	Ring & Band	Positive	5/16	0.2850	0.3620	0.2000	0.3920	0.395-0.410	Viton
122-1215	Metal Clad	Positive	11/32	0.3106	0.5430	0.3820	0.4800	0.490-0.500	Viton
122-1216	Metal Clad	Positive	11/32	0.3070	0.5433	0.3780	0.4805	0.490-0.500	Viton
122-1217	Ring & Band	Positive	11/32	0.3000	0.4820	0.3050	0.4850	0.500-0.531	Viton
122-1218	Ring & Band	Positive	11/32	0.3150	0.4820	0.3220	0.4950	0.500-0.531	Viton
122-1221	Metal Clad	Positive	9/32	0.2710	0.4425	0.3440	0.5520	0.553-0.564	Teflon
122-1223	Metal Clad	Positive	9/32	0.2480	0.4470	0.3500	0.4050	0.409-0.416	Teflon
122-1224	Metal Clad	Positive	3/16	0.1700	0.4500	0.3370	0.3760	0.376-0.385	Teflon
122-1225	1-Ring	Positive	7/16	0.4250	0.4960	0.3525	0.6450	0.655-0.665	Tef/Rub
122-1226	Metal Clad	Positive	1/4	0.2460	0.5725	0.4335	0.4850	0.486-0.500	Viton
122-1229	Top Hat	Positive	7/32	0.2050	0.7370	0.5720	0.4850	0.486-0.495	Viton
122-1230	Top Hat	Positive	1/4	0.2480	0.5710	0.4275	0.4370	0.450-0.455	Viton
122-1232	Metal Clad	Positive	3/8	0.3320	0.6910	0.5030	0.6270	0.628-0.630	Viton
122-1233	Umbrella	Umbrella	11/32	0.3370	0.4500	0.3400	0.6150	N/A	Nylon
122-1234	Umbrella	Umbrella	3/8	0.3670	0.4535	0.3370	0.6150	N/A	Nylon
122-1236	Ring & Band	Positive	1/4	0.2323	0.4724	0.3090	0.4354	0.450-0.500	Viton
122-1237	Metal Clad	Positive	3/8	0.3380	0.5210	0.3675	0.6180	0.620-0.630	Viton
122-1238	Viton Insert	Umbrella	11/32	0.3150	0.4547	0.2850	0.6280	N/A	Nylon/Viton
122-1239	Top Hat	Positive	3/8	0.3550	1.4890	1.3000	0.6200	0.625-0.635	Viton
122-1241	Metal Clad	Positive	3/8	0.3650	0.6200	0.2760	0.5650	0.564-0.570	Viton
122-1242	Metal Clad	Positive	11/32	0.3000	0.4540	0.2690	0.5460	0.550-0.560	Viton
122-1243	Top Hat	Positive	3/8	0.3500	1.0900	0.9260	0.6180	0.629-0.631	Viton
122-1246	Metal Clad	Positive	6 mm	0.2000	0.4075	0.2543	0.4283	0.426-0.439	Viton
122-1249	Metal Clad	Positive	11/32	0.3010	0.5895	0.4265	0.5460	0.550-0.560	Viton
122-1250	Metal Clad	Positive	7 mm	0.2400	0.3850	0.2675	0.3710	0.372-0.385	Viton
122-1251	Top Hat	Positive	1/4	0.2060	0.7070	0.5575	0.4300	0.431-0.436	Viton
122-1252	Metal Clad	Positive	6 mm	0.1980	0.4200	0.2650	0.4300	0.431-0.439	Viton
122-1253	Metal Clad	Positive	6 mm	0.1970	0.4210	0.2660	0.4280	0.431-0.439	Viton
122-1254	Top Hat	Positive	7 mm	0.2323	0.6555	0.4330	0.4450	0.446-0.455	Viton
122-1258	Metal Clad	Positive	11/32	0.2950	0.5450	0.4000	0.4980	0.500-0.510	Viton
122-1259	Metal Clad	Positive	5/16	0.2760	0.5350	0.4020	0.4960	0.500-0.510	Viton
122-1260	Metal Clad	Positive	11/32	0.2950	0.4960	0.3460	0.5430	0.550-0.560	Viton
122-1262	Metal Clad	Positive	7 mm	0.2320	0.4570	0.2820	0.4240	0.425-0.439	Viton
122-1263	Ring & Spring	Positive	8 mm	0.2750	0.5710	0.3500	0.4300	0.439-0.475	Viton
122-1266	Metal Clad	Positive	5.5 mm	0.1850	0.3915	0.2445	0.3980	0.400-0.415	Viton
122-1267	1-Ring	Positive	11/32	0.3330	0.5100	0.3460	0.4920	0.500-0.531	Tef/Rub
122-1268	1-Ring	Positive	11/32	0.3300	0.4950	0.3400	0.4560	0.475-0.500	Tef/Rub
122-1269	Ring & Band	Positive	8 mm	0.2900	0.4860	0.3375	0.4620	0.475-0.531	Viton
122-1270	Umbrella	Umbrella	11/32	0.3120	0.5600	0.4245	0.6450	N/A	Viton
122-1274	Metal Clad	Positive	3/8	0.3260	0.7020	0.5150	0.6640	0.665-0.670	Viton

Valve Stem Seal Numerical Listing

SBI Part #	Style	Type	Nominal Stem Dia.	Top Stem I.D.	Overall Height	Inner Seal Height	Bottom Seal I.D.	Nominal Guide O.D.	Material
122-1276	Metal Clad	Positive	6 mm	0.2010	0.3985	0.2630	0.4165	0.431-0.439	Viton
122-1282	Metal Clad	Positive	5.5 mm	0.1800	0.4025	0.2350	0.3950	0.405-0.420	Viton
122-1285	Metal Clad	Positive	6 mm	0.2090	0.4050	0.2410	0.4300	0.431-0.439	Viton
122-1287	Viton Insert	Umbrella	3/8	0.3540	0.8110	0.6380	0.8010	N/A	Nylon/Viton
122-1288	Top Hat	Positive	6 mm	0.2126	0.5710	0.3620	0.4150	0.434-0.439	Viton
122-1299	Top Hat	Positive	5/16	0.3000	1.1120	0.9580	0.4600	0.465-0.475	Viton
122-1300	Top Hat	Positive	5/16	0.2920	1.1300	0.9280	0.5500	0.565-0.575	Viton
122-1301	Top Hat	Positive	3/8	0.3540	1.3100	1.1200	0.6180	0.625-0.635	Viton
122-1302	Top Hat	Positive	3/8	0.3540	1.2520	0.9450	0.5510	0.575-0.585	Viton
122-1314	Top Hat	Positive	5/16	0.2780	0.8870	0.6543	0.4800	0.510-0.520	Viton
122-1315	Metal Clad	Positive	9 mm	0.3210	0.6770	0.5040	0.5350	0.540-0.550	Viton
122-1316	Ring & Band	Positive	11/32	0.3228	0.4803	0.3071	0.5571	0.550-0.562	Viton
122-1318	Metal Clad	Positive	11/32	0.3047	0.4331	0.2520	0.5079	0.512-0.520	Viton
122-1320	Top Hat	Positive	3/8	0.3390	1.1200	0.9250	0.6000	0.610-0.620	Viton
122-1322	Metal Clad	Positive	1/2	0.4780	0.4940	0.3600	0.6550	0.662-0.670	Viton
122-1323	Metal Clad	Positive	5/16	0.2795	0.5030	0.3520	0.4850	0.495-0.510	Viton
122-1324	Top Hat	Positive	7 mm	0.2410	0.7870	0.6610	0.4950	0.500-0.510	Viton
122-1325	Ring & Band	Positive	11/32	0.3146	0.4862	0.3051	0.5905	0.625-0.660	Viton
122-1326	Ring & Band	Positive	11/32	0.3180	0.4900	0.3250	0.6000	0.625-0.660	Viton
122-1327	Top Hat	Positive	5/16	0.2020	0.7165	0.5630	0.4290	0.435-0.445	Viton
122-1328	Oil Shield	Umbrella	3/8	0.3710	0.5700	0.3800	0.7650	N/A	Nylon
122-1329	Metal Clad	Positive	6 mm	0.1930	0.3940	0.2440	0.3310	0.340-0.350	Viton
122-1330	Spring & Band	Positive	3/8	0.3390	0.5000	0.4100	0.5540	0.600-0.625	Viton
122-1331	Top Hat	Positive	6 mm	0.2100	0.5120	0.3500	0.4370	0.438-0.445	Viton
122-1332	Metal Clad	Positive	3/8	0.3189	0.4075	0.2480	0.5787	0.585-0.595	Viton
122-1333	Top Hat	Positive	5/16	0.2970	1.0900	0.9150	0.5530	0.562-0.572	Viton
122-1334	Metal Clad	Positive	7 mm	0.2465	0.5600	0.3540	0.4875	0.510-0.520	Viton
122-1335	Metal Clad	Positive	7 mm	0.2550	0.5600	0.3540	0.4875	0.510-0.520	Viton
122-1336	Top Hat	Positive	5/16	0.2750	0.9000	0.6300	0.5400	0.550-0.560	Viton
122-1337	Top Hat	Positive	5/16	0.2830	0.8900	0.7150	0.4920	0.495-0.510	Viton
122-1338	Top Hat	Positive	5/16	0.2830	0.8900	0.7150	0.4920	0.495-0.510	Viton
122-1340	Ring & Band	Positive	5/16	0.2880	0.4810	0.3100	0.4650	0.475-0.500	Viton
122-1341	Ring & Band	Positive	5/16	0.2910	0.4750	0.3120	0.4650	0.475-0.500	Viton
122-1342	Top Hat	Positive	6 mm	0.2100	0.8000	0.6890	0.4600	0.470-0.475	Viton
122-1344	Top Hat	Positive	7 mm	0.2410	0.7205	0.5630	0.4645	0.465-0.475	Viton
122-1345	Metal Clad	Positive	3/8	0.3455	0.5140	0.3030	0.6035	0.615-0.620	Viton
122-1346	Metal Clad	Positive	7 mm	0.2400	0.3820	0.2250	0.4350	0.437-0.439	Viton
122-1347	Metal Clad	Positive	5.5 mm	0.1750	0.4000	0.2425	0.4050	0.405-0.420	Viton
122-1348	Top Hat	Positive	7 mm	0.2370	0.6500	0.5400	0.4600	0.470-0.475	Viton
122-1349	Top Hat	Positive	6 mm	0.1969	0.7339	0.6020	0.3917	0.395-0.400	Viton
122-1350	All Rubber	Positive	7 mm	0.2520	0.5450	0.3650	0.4200	0.450-0.500	Viton
122-1351	Top Hat	Positive	7 mm	0.2440	0.8350	0.6600	0.4850	0.495-0.500	Viton
122-1354	Top Hat	Positive	5/16	0.2800	1.0450	0.8650	0.5100	0.515-0.525	Viton
122-1355	Top Hat	Positive	6 mm	0.2126	0.6300	0.5197	0.3858	0.385-0.395	Viton
122-1356	Top Hat	Positive	6 mm	0.1980	0.7250	0.5900	0.4100	0.415-0.430	Viton
122-1357	Ring & Band	Positive	7 mm	0.2520	0.4850	0.3300	0.4950	0.500-0.531	Viton
122-1358	Ring & Band	Positive	7 mm	0.2520	0.4850	0.3300	0.4950	0.500-0.531	Viton
122-1360	Metal Clad	Positive	7 mm	0.2420	0.3450	0.2450	0.3700	0.375-0.385	Viton
122-1361	Metal Clad	Positive	3/8	0.3260	0.7020	0.4600	0.5800	0.585-0.590	Viton
122-1362	Ring & Spring	Positive	7/16	0.3860	0.5300	0.3350	0.6050	0.645-0.665	Viton
122-1363	Metal Clad	Positive	6 mm	0.1850	0.3650	0.2700	0.3350	0.345-0.355	Viton
122-1364	Top Hat	Positive	5/16	0.2920	1.1180	0.9610	0.4570	0.500-0.510	Viton
122-1365	Top Hat	Positive	5/16	0.2880	0.9528	0.7598	0.5197	0.538-0.558	Viton
122-1366	Metal Clad	Positive	6 mm	0.1961	0.4055	0.2461	0.4236	0.426-0.439	Viton
122-1369	Metal Clad	Positive	9 mm	0.3210	0.7300	0.5650	0.5450	0.552-0.562	Viton
122-1370	Top Hat	Positive	7 mm	0.2461	0.6340	0.4090	0.4905	0.510-0.520	Viton
122-1371	Top Hat	Positive	7 mm	0.2453	0.6340	0.4173	0.4900	0.510-0.520	Viton
122-1372	Metal Clad	Positive	8 mm	0.2820	0.3630	0.2380	0.5000	0.510-0.520	Viton
122-1373	Metal Clad	Positive	3/8	0.3220	0.3540	0.2400	0.4890	0.500-0.510	Viton
122-1374	Metal Clad	Positive	3/8	0.3320	0.3900	0.2460	0.5550	0.565	Viton
122-1375	Metal Clad	Positive	7 mm	0.2450	0.3550	0.2450	0.4680	0.475-0.485	Viton

Valve Stem Seal Numerical Listing

SBI Part #	Style	Type	Nominal Stem Dia.	Top Stem I.D.	Overall Height	Inner Seal Height	Bottom Seal I.D.	Nominal Guide O.D.	Material
122-1376	Valve Guide Seal	O-Ring	N/A	N/A	N/A	N/A	N/A	N/A	Nitrile
122-1377	Top Hat	Positive	1 ¹ / ₃₂	0.2795	0.7775	0.5196	0.5669	0.562-0.570	Viton
122-1378	Top Hat	Positive	7 mm	0.2510	1.0270	0.6590	0.5020	0.505-0.515	Viton
122-1381	All Teflon	Positive	8 mm	0.3031	0.3960	0.2165	0.4035	0.418-0.428	Teflon
122-1382	Metal Clad	Positive	8 mm	0.2560	0.5155	0.4095	0.4765	0.482-0.502	Viton
122-1387	Metal Clad	Positive	1 ¹ / ₃₂	0.2870	0.5157	0.3606	0.5570	0.560-0.565	Viton
122-1389	Metal Clad	Positive	8.5 mm	0.3030	0.4720	0.3150	0.5470	0.555	Viton
122-1391	Top Hat	Positive	3 ⁸ / ₈	0.3270	1.1180	0.9380	0.6140	0.629-0.631	Viton
122-1392	Umbrella	Umbrella	3 ⁸ / ₈	0.3720	0.7200	0.5550	0.8800	N/A	Nylon
122-1393	Top Hat	Positive	3 ⁸ / ₈	0.3150	1.2500	1.0700	0.5630	0.572-0.582	Viton
122-1394	Top Hat	Positive	6 mm	0.1910	0.8380	0.3950	0.3920	0.400-0.436	Viton
122-1395	All Rubber	Positive	9 mm	0.3425	0.5965	0.4291	0.4291	0.510-0.515	Viton
122-1397	All Rubber	Positive	9 mm	0.3465	0.6260	0.4490	0.4705	0.550-0.555	Viton
122-1398	All Rubber	Positive	3 ⁸ / ₈	0.3622	0.5885	0.4175	0.4866	0.555-0.565	Poly
122-1399	Metal Clad	Positive	5 ¹ / ₁₆	0.2450	0.3850	0.2850	0.4130	0.420	Teflon
122-1400	Metal Clad	Positive	3 ⁸ / ₈	0.2740	0.4000	0.2820	0.6000	0.625	Teflon
122-1402	Metal Clad	Positive	8 mm	0.3050	0.5708	0.3937	0.5016	0.510-0.520	Viton
122-1407	Metal Clad	Positive	10 mm	0.3445	0.6516	0.4193	0.5315	0.536-0.546	Viton
122-1409	Top Hat	Positive	6 mm	0.1969	0.6248	0.4957	0.4197	0.430-0.440	Viton
122-1410	Top Hat	Positive	5.5 mm	0.1745	0.7086	0.5292	0.4252	0.435-0.440	Viton
122-1411	Top Hat	Positive	5.5 mm	0.1770	0.7086	0.5292	0.4272	0.435-0.440	Viton
122-1412	Umbrella	Umbrella	5 ¹ / ₁₆	0.2408	0.5078	0.4015	0.6654	N/A	Viton
122-1413	Top Hat	Positive	5 ¹ / ₁₆	0.2640	0.9430	0.7673	0.4875	0.510-0.520	Viton
122-1414	Oil Shield	Umbrella	1 ¹ / ₂	0.5000	0.8200	0.6700	0.7900	N/A	Nylon
122-1415	Top Hat	Positive	9 mm	0.3315	0.7878	0.6340	0.5710	0.581-0.601	Viton
122-1418	Top Hat	Positive	6 mm	0.1900	0.7880	0.5150	0.4290	0.436-0.436	Viton
122-1419	Top Hat	Positive	7 mm	0.2450	0.6400	0.4850	0.4780	0.490-0.500	Viton
122-1420	Top Hat	Positive	9 mm	0.3268	0.8015	0.6295	0.5850	0.590-0.595	Viton
122-1421	Top Hat	Positive	8 mm	0.2820	0.8815	0.7245	0.5178	0.525-0.535	Viton
122-1423	Top Hat	Positive	5 ¹ / ₁₆	0.2800	1.1360	0.9700	0.5100	0.515-0.525	Viton
122-1424	Metal Clad	Positive	8 mm	0.2655	0.3645	0.2590	0.4318	0.440-0.450	Viton
122-1425	Metal Clad	Positive	5 ¹ / ₁₆	0.2780	0.3976	0.2401	0.4590	0.465-0.475	Viton
122-1426	Oil Shield	Umbrella	3 ⁸ / ₈	0.3740	0.2320	N/A	0.3850	N/A	Nylon
122-1427	Top Hat	Positive	5.5 mm	0.1712	0.6673	0.4902	0.4149	0.420-0.430	Viton
122-1428	Metal Clad	Positive	5.5 mm	0.1850	0.4606	0.3256	0.3819	0.385-0.395	Viton
122-1429	Metal Clad	Positive	5.5 mm	0.1850	0.3149	0.1968	0.3779	0.390-0.400	Viton
122-1430	Metal Clad	Positive	5.5 mm	0.1831	0.3149	0.1968	0.3760	0.385-0.395	Viton
122-1431	Umbrella	Umbrella	1 ¹ / ₃₂	0.2750	0.7920	0.6100	0.6620	N/A	Poly
122-1432	Metal Clad	Positive	7 mm	0.2634	0.5945	0.4213	0.4170	0.427-0.437	Viton
122-1433	Metal Clad	Positive	5 mm	0.1594	0.4468	0.2756	0.3465	0.350-0.360	Viton
122-1434	Top Hat	Positive	9 mm	0.3346	0.6811	0.5197	0.5039	0.513-0.523	Viton
122-1435	Top Hat	Positive	9 mm	0.3248	0.6811	0.5197	0.5039	0.513-0.523	Viton
122-1436	Top Hat	Positive	3 ⁸ / ₈	0.3440	1.2480	1.0600	0.5630	0.575-0.585	Viton
122-1437	All Teflon	Positive	7 ¹ / ₁₆	0.4400	0.5150	0.3450	0.5850	0.605-0.615	Teflon
122-1438	Metal Clad	Positive	7 mm	0.2362	0.4527	0.3582	0.4370	0.450-0.457	Viton
122-1439	Top Hat	Positive	5 ¹ / ₁₆	0.2874	0.7343	0.5669	0.5413	0.550-0.560	Viton
122-1440	Top Hat	Positive	5.5 mm	0.1791	0.7874	0.6102	0.4193	0.430-0.440	Viton
122-1441	Top Hat	Positive	7 mm	0.2303	0.6528	0.4409	0.4606	0.470-0.480	Viton
122-1442	Metal Clad	Positive	6 mm	0.1980	0.3818	0.2765	0.3307	0.338-0.356	Viton
122-1443	Oil Shield	Umbrella	3 ⁸ / ₈	0.3680	0.5990	0.4375	0.6800	N/A	Nylon
122-1444	Top Hat	Positive	5.5 mm	0.1810	0.7560	0.5950	0.4252	0.435-0.440	Viton
122-1445	Top Hat	Positive	8 mm	0.2728	0.9783	0.8150	0.4882	0.498-0.508	Viton
122-1447	Top Hat	Positive	6 mm	0.1929	0.6602	0.5000	0.4110	0.421-0.431	Viton
122-1448	Metal Clad	Positive	3 ⁸ / ₈	0.3300	0.5100	0.2950	0.5500	0.555-0.565	Viton
122-1449	Top Hat	Positive	7 mm	0.2470	0.7950	0.6385	0.4750	0.480-0.500	Viton
122-1451	Metal Clad	Positive	8 mm	0.2660	0.3740	0.2640	0.4600	0.465-0.475	Viton
122-1452	Metal Clad	Positive	5 mm	0.1744	0.3700	0.2693	0.3728	0.383-0.393	Viton
122-1453	Top Hat	Positive	5 mm	0.1770	0.7050	0.5390	0.3465	0.355-0.365	Viton
122-1454	Top Hat	Positive	6 mm	0.1949	0.7087	0.5138	0.4264	0.435-0.440	Viton
122-1455	Top Hat	Positive	6 mm	0.1929	0.7087	0.5138	0.4264	0.435-0.440	Viton
122-1456	Metal Clad	Positive	6 mm	0.1996	0.3976	0.2421	0.3307	0.340-0.350	Viton

Valve Stem Seal Numerical Listing

SBI Part #	Style	Type	Nominal Stem Dia.	Top Stem I.D.	Overall Height	Inner Seal Height	Bottom Seal I.D.	Nominal Guide O.D.	Material
122-1457	Top Hat	Positive	6 mm	0.1969	0.6417	0.4937	0.4638	0.475-0.480	Viton
122-1458	Top Hat	Positive	5 mm	0.1713	0.6094	0.4574	0.2913	0.295-0.305	Viton
122-1460	Top Hat	Positive	5/16	0.2846	0.8307	0.6550	0.5433	0.555-0.565	Viton
122-1461	Metal Clad	Positive	3/8	0.3160	0.5970	0.4230	0.5250	0.530-0.540	Viton
122-1462	Metal Clad	Positive	7 mm	0.2756	0.3819	0.2244	0.4567	0.465-0.475	Viton
122-1463	Top Hat	Positive	3/8	0.3570	2.0250	1.8350	0.5500	0.555-0.565	Viton
122-1464	Metal Clad	Positive	7 mm	0.2323	0.4724	0.3268	0.4654	0.475-0.485	Viton
122-1465	Metal Clad	Positive	7 mm	0.2362	0.4724	0.3268	0.4654	0.475-0.485	Viton
122-1466	Top Hat	Positive	9 mm	0.3360	0.8300	0.6800	0.5760	0.586-0.596	Viton
122-1467	Top Hat	Positive	5.5 mm	0.1724	0.7800	0.6083	0.4213	0.430-0.440	Viton
122-1468	Metal Clad	Positive	5 mm	0.1338	0.3149	0.2110	0.2905	0.300-0.310	Viton
122-1469	Metal Clad	Positive	8 mm	0.2638	0.4331	0.2598	0.4567	0.465-0.475	Viton
122-1470	Top Hat	Positive	7 mm	0.2460	0.3000	0.0920	0.4500	N/A	Viton
122-1471	Metal Clad	Positive	1/2	0.4197	0.5197	0.3189	0.6378	0.650-0.670	Viton
122-1472	Metal Clad	Positive	8 mm	0.2701	0.5472	0.4016	0.4709	0.472-0.477	Viton
122-1473	Metal Clad	Positive	9 mm	0.3130	0.4350	0.2087	0.4601	0.465-0.485	ACM
122-1474	Metal Clad	Positive	9 mm	0.3047	0.5571	0.3917	0.6260	0.630-0.637	Viton
122-1475	All Rubber	Positive	7 mm	0.2600	0.4311	0.2933	0.4040	0.465-0.485	Viton
122-1476	All Metal Clad	Positive	8 mm	0.2953	0.5177	0.3307	0.5102	0.513-0.514	Viton
122-1477	Top Hat	Positive	7 mm	0.2539	0.6024	0.4213	0.4941	0.510-0.520	Viton
122-1478	Metal Clad	Positive	7 mm	0.2402	0.3681	0.2421	0.4614	0.470-0.480	Viton
122-1479	Metal Clad	Positive	7 mm	0.2433	0.3642	0.2303	0.4567	0.465-0.480	Viton
122-1480	Metal Clad	Positive	6 mm	0.2047	0.3700	0.2106	0.3866	0.392-0.398	Viton
122-1481	Metal Clad	Positive	6 mm	0.2059	0.3700	0.2106	0.3866	0.392-0.398	Viton
122-1482	Metal Clad	Positive	9 mm	0.3157	0.4921	0.3307	0.5197	0.530-0.540	Viton
122-1483	Metal Clad	Positive	8 mm	0.2764	0.3622	0.2264	0.4984	0.510-.0520	Viton
122-1484	Metal Clad	Positive	8 mm	0.2787	0.3701	0.2303	0.4961	0.510-.0520	Viton
122-1485	Ring & Band	Positive	7 mm	0.2598	0.4764	0.3071	0.3760	0.430-0.440	Viton
122-1487	Metal Clad	Positive	8 mm	0.2913	0.4055	0.2677	0.4106	0.440-0.450	Viton
122-1488	Top Hat	Positive	7 mm	0.2362	0.9173	0.7354	0.4606	0.470-0.480	Viton
122-1489	Top Hat	Positive	7 mm	0.2362	0.9173	0.7343	0.4606	0.470-0.480	Viton
122-1490	Top Hat	Positive	3/8	0.3450	1.2650	1.0700	0.5700	0.572-0.592	Viton
122-1491	Metal Clad	Positive	9 mm	0.3031	0.4530	0.2700	0.4390	0.460-0.475	Viton
122-1492	Metal Clad	Positive	9 mm	0.3157	0.4173	0.2420	0.4512	0.460-0.475	Viton
122-1493	Top Hat	Positive	5.5 mm	0.1811	0.6614	0.4941	0.3957	0.405-0.415	Viton
122-1494	Top Hat	Positive	7 mm	0.2213	0.7402	0.5551	0.4693	0.475-0.485	Viton
122-1495	Top Hat	Positive	6 mm	0.1902	0.7756	0.5866	0.4165	0.420-0.430	Viton
122-1498	Metal Clad	Positive	6.5 mm	0.2205	0.4724	0.2972	0.4614	0.470-0.480	Viton
122-1499	Top Hat	Positive	9 mm	0.3122	0.8740	0.6870	0.5776	0.590-0.595	Viton
122-1500	Metal Clad	Positive	10 mm	0.3512	0.3720	0.2539	0.5327	0.545-0.555	Viton
122-1501	Top Hat	Positive	5 mm	0.1685	0.6732	0.4606	0.3524	0.360-0.365	Viton
122-1502	Top Hat	Positive	6 mm	0.1929	0.6299	0.4450	0.4232	0.435-0.445	Viton
122-1503	Top Hat	Positive	6 mm	0.1969	0.6299	0.4450	0.4232	0.435-0.445	Viton
122-1504	Metal Clad	Positive	9mm	0.3465	0.4409	0.3858	0.4882	0.492-0.502	Viton
122-1505	Ring & Band	Positive	3/8	0.3380	0.4920	0.3120	0.5880	0.640-0.660	Viton
122-1506	Metal Clad	Positive	10 mm	0.3402	0.4331	0.2535	0.4764	0.495-0.510	Viton
122-1507	Metal Clad	Positive	7 mm	0.2360	0.4610	0.2953	0.4250	0.429-0.439	Viton
122-1508	Metal Clad	Positive	5/16	0.2756	0.6457	0.4685	0.4961	0.485-0.495	Viton
122-1509	Top Hat	Positive	6 mm	0.1890	0.8190	0.6732	0.4213	0.431-0.441	Viton
122-1510	Top Hat	Positive	7 mm	0.2283	0.8091	0.5906	0.4429	0.453-0.463	Viton
122-9000	Installation Protector Sleeve	Valve Stem Seal Protector Sleeves	5/16						
122-9001	Installation Protector Sleeve	Valve Stem Seal Protector Sleeves	11/32						
122-9002	Installation Protector Sleeve	Valve Stem Seal Protector Sleeves	3/8						
122-9003	Valve Seal Driver	White							
122-9004	Valve Seal Driver	Black							
122-9005	Valve Seal Driver	Red							
122-NOTE									
322-1000	All Teflon	Positive	5/16	0.2950	0.5165	0.3550	0.3900	0.410-0.420	Teflon
322-1001	All Teflon	Positive	5/16	0.2920	0.5100	0.3325	0.4800	0.500	Teflon
322-1002	All Teflon	Positive	5/16	0.2950	0.5200	0.3480	0.5120	0.531	Teflon
322-1003	All Teflon	Positive	11/32	0.3160	0.5170	0.3370	0.4620	0.482-0.502	Teflon

Valve Stem Seal Numerical Listing

SBI Part #	Style	Type	Nominal Stem Dia.	Top Stem I.D.	Overall Height	Inner Seal Height	Bottom Seal I.D.	Nominal Guide O.D.	Material
322-1004	All Teflon	Positive	1 ¹ / ₃₂	0.3230	0.5110	0.3325	0.5000	0.502-0.512	Teflon
322-1006	All Teflon	Positive	3 ⁸ / ₈	0.3510	0.5040	0.3330	0.4720	0.474-0.484	Teflon
322-1007	All Teflon	Positive	3 ⁸ / ₈	0.3450	0.5070	0.3265	0.5030	0.505-0.515	Teflon
322-1008	Metal Clad	Positive	5 ¹⁶ / ₁₆	0.2800	0.5020	0.3450	0.4900	0.500	Viton
322-1009	Metal Clad	Positive	5 ¹⁶ / ₁₆	0.2720	0.5160	0.3550	0.5150	0.531	Viton
322-1010	Metal Clad	Positive	1 ¹ / ₃₂	0.3020	0.5240	0.3800	0.4900	0.500	Viton
322-1011	Metal Clad	Positive	1 ¹ / ₃₂	0.3030	0.5270	0.3600	0.5200	0.531	Viton
322-1012	Metal Clad	Positive	3 ⁸ / ₈	0.3400	0.5300	0.3800	0.4900	0.500	Viton
322-1013	Metal Clad	Positive	3 ⁸ / ₈	0.3380	0.5200	0.3550	0.5200	0.531	Viton
322-1014	All Metal Clad	Positive	5 ¹⁶ / ₁₆	0.2830	0.4980	0.3400	0.4950	0.500	Viton
322-1015	All Metal Clad	Positive	5 ¹⁶ / ₁₆	0.2770	0.4980	0.3400	0.5250	0.531	Viton
322-1016	All Metal Clad	Positive	1 ¹ / ₃₂	0.3040	0.4980	0.3400	0.4950	0.500	Viton
322-1017	All Metal Clad	Positive	1 ¹ / ₃₂	0.3040	0.4980	0.3400	0.5250	0.531	Viton
322-1019	Metal Clad	Positive	5 ¹⁶ / ₁₆	0.2400	0.3750	0.2900	0.5150	0.525	Teflon
322-1020	Metal Clad	Positive	1 ¹ / ₃₂	0.2650	0.3750	0.2850	0.4900	0.500	Teflon
322-1021	Metal Clad	Positive	1 ¹ / ₃₂	0.2680	0.3750	0.2850	0.5150	0.531	Teflon
322-1022	Metal Clad	Positive	3 ⁸ / ₈	0.2850	0.3750	0.2900	0.5150	0.531	Teflon
322-1023	Metal Clad	Positive	3 ⁸ / ₈	0.3000	0.3750	0.2900	0.5400	0.562	Teflon
322-1024	Metal Clad	Positive	3 ⁸ / ₈	0.3228	0.4331	0.2520	0.5433	0.562	Viton

Valve Stem Seals

Listed By Style, Type, & Nominal Stem Diameter

SBI Part #	Style	Type	Nominal Stem Dia.	Top Stem I.D.	Overall Height	Inner Seal Height	Bottom Seal I.D.	Nominal Guide O.D.	Material
122-NOTE									
122-1009	1-Ring	Positive	5/16	0.2950	0.5045	0.3340	0.4585	0.475-0.531	Tef/Rub
122-1268	1-Ring	Positive	11/32	0.3300	0.4950	0.3400	0.4560	0.475-0.500	Tef/Rub
122-1267	1-Ring	Positive	11/32	0.3330	0.5100	0.3460	0.4920	0.500-0.531	Tef/Rub
122-1014	1-Ring	Positive	11/32	0.3340	0.5075	0.3450	0.5200	0.531-0.562	Tef/Rub
122-1011	1-Ring	Positive	3/8	0.3543	0.5079	0.3465	0.4490	0.475-0.531	Tef/Rub
122-1017	1-Ring	Positive	3/8	0.3630	0.5065	0.3375	0.5520	0.562-0.600	Tef/Rub
122-1015	1-Ring	Positive	3/8	0.3650	0.5100	0.3450	0.5200	0.531-0.562	Tef/Rub
122-1225	1-Ring	Positive	7/16	0.4250	0.4960	0.3525	0.6450	0.655-0.665	Tef/Rub
122-1207	1-Ring	Positive	1/2	0.4900	0.5000	0.3300	0.6480	0.650-0.690	Tef/Rub
122-1039	1-Spring	Positive	9/32	0.2650	0.3650	0.2545	0.4550	0.475-0.515	Poly
122-1048	2-Ring	Positive	11/32	0.3050	0.4850	0.3235	0.5050	0.510-0.562	Poly
122-1040	2-Ring	Positive	11/32	0.3120	0.3000	0.4600	0.5550	0.562-0.600	Poly
122-1047	2-Ring	Positive	11/32	0.3150	0.4525	0.3050	0.4750	0.475-0.515	Poly
122-1196	2-Ring	Positive	11/32	0.3310	0.4815	0.3135	0.5250	0.531-0.562	Nitrile
122-1031	2-Ring	Positive	3/8	0.3425	0.4525	0.3070	0.5800	0.625-0.660	Poly
322-1015	All Metal Clad	Positive	5/16	0.2770	0.4980	0.3400	0.5250	0.531	Viton
322-1014	All Metal Clad	Positive	5/16	0.2830	0.4980	0.3400	0.4950	0.500	Viton
122-1476	All Metal Clad	Positive	8 mm	0.2953	0.5177	0.3307	0.5102	0.513-0.514	Viton
322-1016	All Metal Clad	Positive	11/32	0.3040	0.4980	0.3400	0.4950	0.500	Viton
322-1017	All Metal Clad	Positive	11/32	0.3040	0.4980	0.3400	0.5250	0.531	Viton
122-1350	All Rubber	Positive	7 mm	0.2520	0.5450	0.3650	0.4200	0.450-0.500	Viton
122-1475	All Rubber	Positive	7 mm	0.2600	0.4311	0.2933	0.4040	0.465-0.485	Viton
122-1079	All Rubber	Positive	5/16	0.2940	0.5490	0.4600	0.4250	0.439-0.475	Viton
122-1395	All Rubber	Positive	9 mm	0.3425	0.5965	0.4291	0.4291	0.510-0.515	Viton
122-1046	All Rubber	Positive	3/8	0.3450	0.5700	0.4040	0.5500	0.562-0.600	Poly
122-1397	All Rubber	Positive	9 mm	0.3465	0.6260	0.4490	0.4705	0.550-0.555	Viton
122-1063	All Rubber	Positive	3/8	0.3500	0.5610	0.4335	0.5500	0.562-0.600	Viton
122-1398	All Rubber	Positive	3/8	0.3622	0.5885	0.4175	0.4866	0.555-0.565	Poly
322-1001	All Teflon	Positive	5/16	0.2920	0.5100	0.3325	0.4800	0.500	Teflon
322-1002	All Teflon	Positive	5/16	0.2950	0.5200	0.3480	0.5120	0.531	Teflon
322-1000	All Teflon	Positive	5/16	0.2950	0.5165	0.3550	0.3900	0.410-0.420	Teflon
122-1189	All Teflon	Positive	5/16	0.2950	0.5165	0.3550	0.3900	0.410-0.420	Teflon
122-1381	All Teflon	Positive	8 mm	0.3031	0.3960	0.2165	0.4035	0.418-0.428	Teflon
322-1003	All Teflon	Positive	11/32	0.3160	0.5170	0.3370	0.4620	0.482-0.502	Teflon
322-1004	All Teflon	Positive	11/32	0.3230	0.5110	0.3325	0.5000	0.502-0.512	Teflon
322-1007	All Teflon	Positive	3/8	0.3450	0.5070	0.3265	0.5030	0.505-0.515	Teflon
322-1006	All Teflon	Positive	3/8	0.3510	0.5040	0.3330	0.4720	0.474-0.484	Teflon
122-1437	All Teflon	Positive	7/16	0.4400	0.5150	0.3450	0.5850	0.605-0.615	Teflon
122-9001	Installation Protector Sleeve	Valve Stem Seal Protector Sleeves	11/32						
122-9002	Installation Protector Sleeve	Valve Stem Seal Protector Sleeves	3/8						
122-9000	Installation Protector Sleeve	Valve Stem Seal Protector Sleeves	5/16						
122-1468	Metal Clad	Positive	5 mm	0.1338	0.3149	0.2110	0.2905	0.300-0.310	Viton
122-1433	Metal Clad	Positive	5 mm	0.1594	0.4468	0.2756	0.3465	0.350-0.360	Viton
122-1224	Metal Clad	Positive	3/16	0.1700	0.4500	0.3370	0.3760	0.376-0.385	Teflon
122-1452	Metal Clad	Positive	5 mm	0.1744	0.3700	0.2693	0.3728	0.383-0.393	Viton
122-1347	Metal Clad	Positive	5.5 mm	0.1750	0.4000	0.2425	0.4050	0.405-0.420	Viton
122-1282	Metal Clad	Positive	5.5 mm	0.1800	0.4025	0.2350	0.3950	0.405-0.420	Viton
122-1430	Metal Clad	Positive	5.5 mm	0.1831	0.3149	0.1968	0.3760	0.385-0.395	Viton
122-1266	Metal Clad	Positive	5.5 mm	0.1850	0.3915	0.2445	0.3980	0.400-0.415	Viton
122-1162	Metal Clad	Positive	5.5 mm	0.1850	0.4530	0.2760	0.3650	0.368-0.376	Viton
122-1428	Metal Clad	Positive	5.5 mm	0.1850	0.4606	0.3256	0.3819	0.385-0.395	Viton
122-1429	Metal Clad	Positive	5.5 mm	0.1850	0.3149	0.1968	0.3779	0.390-0.400	Viton
122-1363	Metal Clad	Positive	6 mm	0.1850	0.3650	0.2700	0.3350	0.345-0.355	Viton
122-1155	Metal Clad	Positive	5.5 mm	0.1860	0.3720	0.2470	0.3580	0.359-0.369	Viton
122-1202	Metal Clad	Positive	7/32	0.1920	0.3898	0.2480	0.4330	0.434-0.439	Viton
122-1201	Metal Clad	Positive	7/32	0.1920	0.3898	0.2480	0.4330	0.434-0.439	Viton
122-1329	Metal Clad	Positive	6 mm	0.1930	0.3940	0.2440	0.3310	0.340-0.350	Viton
122-1366	Metal Clad	Positive	6 mm	0.1961	0.4055	0.2461	0.4236	0.426-0.439	Viton

Valve Stem Seals

Listed By Style, Type, & Nominal Stem Diameter

SBI Part #	Style	Type	Nominal Stem Dia.	Top Stem I.D.	Overall Height	Inner Seal Height	Bottom Seal I.D.	Nominal Guide O.D.	Material
122-1253	Metal Clad	Positive	6 mm	0.1970	0.4210	0.2660	0.4280	0.431-0.439	Viton
122-1442	Metal Clad	Positive	6 mm	0.1980	0.3818	0.2765	0.3307	0.338-0.356	Viton
122-1252	Metal Clad	Positive	6 mm	0.1980	0.4200	0.2650	0.4300	0.431-0.439	Viton
122-1456	Metal Clad	Positive	6 mm	0.1996	0.3976	0.2421	0.3307	0.340-0.350	Viton
122-1246	Metal Clad	Positive	6 mm	0.2000	0.4075	0.2543	0.4283	0.426-0.439	Viton
122-1276	Metal Clad	Positive	6 mm	0.2010	0.3985	0.2630	0.4165	0.431-0.439	Viton
122-1165	Metal Clad	Positive	6 mm	0.2040	0.4331	0.2677	0.4290	0.430-0.439	Viton
122-1480	Metal Clad	Positive	6 mm	0.2047	0.3700	0.2106	0.3866	0.392-0.398	Viton
122-1481	Metal Clad	Positive	6 mm	0.2059	0.3700	0.2106	0.3866	0.392-0.398	Viton
122-1150	Metal Clad	Positive	6 mm	0.2080	0.4500	0.2910	0.3860	0.387-0.396	Viton
122-1285	Metal Clad	Positive	6 mm	0.2090	0.4050	0.2410	0.4300	0.431-0.439	Viton
122-1180	Metal Clad	Positive	6 mm	0.2120	0.3150	0.1969	0.4300	0.431-0.439	Viton
122-1181	Metal Clad	Positive	6 mm	0.2120	0.3150	0.1969	0.4300	0.431-0.439	Viton
122-1147	Metal Clad	Positive	6 mm	0.2160	0.4016	0.2362	0.4250	0.426-0.439	Viton
122-1114	Metal Clad	Positive	6.5 mm	0.2204	0.4800	0.2950	0.4610	0.475-0.485	Viton
122-1498	Metal Clad	Positive	6.5 mm	0.2205	0.4724	0.2972	0.4614	0.470-0.480	Viton
122-1130	Metal Clad	Positive	7 mm	0.2276	0.4449	0.2913	0.4409	0.450-0.460	Viton
122-1139	Metal Clad	Positive	7 mm	0.2310	0.5050	0.2756	0.4260	0.430-0.440	Viton
122-1262	Metal Clad	Positive	7 mm	0.2320	0.4570	0.2820	0.4240	0.425-0.439	Viton
122-1464	Metal Clad	Positive	7 mm	0.2323	0.4724	0.3268	0.4654	0.475-0.485	Viton
122-1152	Metal Clad	Positive	6.5 mm	0.2340	0.3950	0.2550	0.4720	0.475-0.485	Viton
122-1507	Metal Clad	Positive	7 mm	0.2360	0.4610	0.2953	0.4250	0.429-0.439	Viton
122-1438	Metal Clad	Positive	7 mm	0.2362	0.4527	0.3582	0.4370	0.450-0.457	Viton
122-1465	Metal Clad	Positive	7 mm	0.2362	0.4724	0.3268	0.4654	0.475-0.485	Viton
122-1158	Metal Clad	Positive	6.5 mm	0.2400	0.4528	0.2756	0.4130	0.414-0.419	Viton
122-1250	Metal Clad	Positive	7 mm	0.2400	0.3850	0.2675	0.3710	0.372-0.385	Viton
122-1346	Metal Clad	Positive	7 mm	0.2400	0.3820	0.2250	0.4350	0.437-0.439	Viton
322-1019	Metal Clad	Positive	5/16	0.2400	0.3750	0.2900	0.5150	0.525	Teflon
122-1478	Metal Clad	Positive	7 mm	0.2402	0.3681	0.2421	0.4614	0.470-0.480	Viton
122-1360	Metal Clad	Positive	7 mm	0.2420	0.3450	0.2450	0.3700	0.375-0.385	Viton
122-1479	Metal Clad	Positive	7 mm	0.2433	0.3642	0.2303	0.4567	0.465-0.480	Viton
122-1375	Metal Clad	Positive	7 mm	0.2450	0.3550	0.2450	0.4680	0.475-0.485	Viton
122-1198	Metal Clad	Positive	9/32	0.2450	0.5118	0.3543	0.5060	0.507-0.515	Viton
122-1399	Metal Clad	Positive	5/16	0.2450	0.3850	0.2850	0.4130	0.420	Teflon
122-1226	Metal Clad	Positive	1/4	0.2460	0.5725	0.4335	0.4850	0.486-0.500	Viton
122-1334	Metal Clad	Positive	7 mm	0.2465	0.5600	0.3540	0.4875	0.510-0.520	Viton
122-1223	Metal Clad	Positive	9/32	0.2480	0.4470	0.3500	0.4050	0.409-0.416	Teflon
122-1141	Metal Clad	Positive	7 mm	0.2520	0.5906	0.4365	0.4670	0.468-0.475	Viton
122-1142	Metal Clad	Positive	9/32	0.2520	0.3819	0.2165	0.4720	0.475-0.485	Viton
122-1149	Metal Clad	Positive	9/32	0.2520	0.5118	0.3622	0.4720	0.475-0.485	Viton
122-1073	Metal Clad	Positive	7 mm	0.2540	0.3910	0.3020	0.4120	0.434-0.439	Viton
122-1187	Metal Clad	Positive	7 mm	0.2550	0.4252	0.2810	0.4640	0.465-0.475	Viton
122-1335	Metal Clad	Positive	7 mm	0.2550	0.5600	0.3540	0.4875	0.510-0.520	Viton
122-1382	Metal Clad	Positive	8 mm	0.2560	0.5155	0.4095	0.4765	0.482-0.502	Viton
122-1432	Metal Clad	Positive	7 mm	0.2634	0.5945	0.4213	0.4170	0.427-0.437	Viton
122-1469	Metal Clad	Positive	8 mm	0.2638	0.4331	0.2598	0.4567	0.465-0.475	Viton
322-1020	Metal Clad	Positive	11/32	0.2650	0.3750	0.2850	0.4900	0.500	Teflon
122-1424	Metal Clad	Positive	8 mm	0.2655	0.3645	0.2590	0.4318	0.440-0.450	Viton
122-1451	Metal Clad	Positive	8 mm	0.2660	0.3740	0.2640	0.4600	0.465-0.475	Viton
322-1021	Metal Clad	Positive	11/32	0.2680	0.3750	0.2850	0.5150	0.531	Teflon
122-1472	Metal Clad	Positive	8 mm	0.2701	0.5472	0.4016	0.4709	0.472-0.477	Viton
122-1221	Metal Clad	Positive	9/32	0.2710	0.4425	0.3440	0.5520	0.553-0.564	Teflon
322-1009	Metal Clad	Positive	5/16	0.2720	0.5160	0.3550	0.5150	0.531	Viton
122-1159	Metal Clad	Positive	8 mm	0.2740	0.4528	0.2756	0.4650	0.466-0.475	Viton
122-1400	Metal Clad	Positive	3/8	0.2740	0.4000	0.2820	0.6000	0.625	Teflon
122-1462	Metal Clad	Positive	7 mm	0.2756	0.3819	0.2244	0.4567	0.465-0.475	Viton
122-1508	Metal Clad	Positive	5/16	0.2756	0.6457	0.4685	0.4961	0.485-0.495	Viton
122-1259	Metal Clad	Positive	5/16	0.2760	0.5350	0.4020	0.4960	0.500-0.510	Viton
122-1483	Metal Clad	Positive	8 mm	0.2764	0.3622	0.2264	0.4984	0.510-0.520	Viton

Valve Stem Seals

Listed By Style, Type, & Nominal Stem Diameter

SBI Part #	Style	Type	Nominal Stem Dia.	Top Stem I.D.	Overall Height	Inner Seal Height	Bottom Seal I.D.	Nominal Guide O.D.	Material
122-1137	Metal Clad	Positive	5/16	0.2780	0.6417	0.4606	0.4840	0.485-0.495	Viton
122-1425	Metal Clad	Positive	5/16	0.2780	0.3976	0.2401	0.4590	0.465-0.475	Viton
122-1484	Metal Clad	Positive	8 mm	0.2787	0.3701	0.2303	0.4961	0.510-0.520	Viton
122-1086	Metal Clad	Positive	5/16	0.2795	0.5120	0.3620	0.5120	0.520-0.530	Viton
122-1205	Metal Clad	Positive	5/16	0.2795	0.5118	0.3642	0.5177	0.526-0.531	Viton
122-1323	Metal Clad	Positive	5/16	0.2795	0.5030	0.3520	0.4850	0.495-0.510	Viton
122-1127	Metal Clad	Positive	8 mm	0.2795	0.4055	0.2400	0.5060	0.512-0.517	Viton
322-1008	Metal Clad	Positive	5/16	0.2800	0.5020	0.3450	0.4900	0.500	Viton
122-1132	Metal Clad	Positive	8 mm	0.2800	0.5035	0.3510	0.5470	0.552-0.557	Viton
122-1125	Metal Clad	Positive	8 mm	0.2800	0.4685	0.3150	0.5512	0.552-0.562	Viton
122-1088	Metal Clad	Positive	7.5 mm	0.2820	0.4040	0.2680	0.5100	0.511-0.520	Viton
122-1163	Metal Clad	Positive	8 mm	0.2820	0.5196	0.3560	0.5060	0.507-0.515	Viton
122-1372	Metal Clad	Positive	8 mm	0.2820	0.3630	0.2380	0.5000	0.510-0.520	Viton
122-1089	Metal Clad	Positive	8 mm	0.2820	0.3960	0.3120	0.4120	0.420-0.430	Viton
122-1116	Metal Clad	Positive	8 mm	0.2840	0.5394	0.4016	0.4700	0.475-0.485	ACM
122-1204	Metal Clad	Positive	5/16	0.2850	0.5118	0.3543	0.5250	0.526-0.531	Viton
322-1022	Metal Clad	Positive	3/8	0.2850	0.3750	0.2900	0.5150	0.531	Teflon
122-1387	Metal Clad	Positive	11/32	0.2870	0.5157	0.3606	0.5570	0.560-0.565	Viton
122-1082	Metal Clad	Positive	8 mm	0.2900	0.5390	0.4295	0.4680	0.475-0.485	Viton
122-1067	Metal Clad	Positive	8 mm	0.2900	0.4250	0.3150	0.4580	0.475-0.480	Viton
122-1487	Metal Clad	Positive	8 mm	0.2913	0.4055	0.2677	0.4106	0.440-0.450	Viton
122-1260	Metal Clad	Positive	11/32	0.2950	0.4960	0.3460	0.5430	0.550-0.560	Viton
122-1258	Metal Clad	Positive	11/32	0.2950	0.5450	0.4000	0.4980	0.500-0.510	Viton
122-1242	Metal Clad	Positive	11/32	0.3000	0.4540	0.2690	0.5460	0.550-0.560	Viton
322-1023	Metal Clad	Positive	3/8	0.3000	0.3750	0.2900	0.5400	0.562	Teflon
122-1249	Metal Clad	Positive	11/32	0.3010	0.5895	0.4265	0.5460	0.550-0.560	Viton
322-1010	Metal Clad	Positive	11/32	0.3020	0.5240	0.3800	0.4900	0.500	Viton
122-1389	Metal Clad	Positive	8.5 mm	0.3030	0.4720	0.3150	0.5470	0.555	Viton
322-1011	Metal Clad	Positive	11/32	0.3030	0.5270	0.3600	0.5200	0.531	Viton
122-1491	Metal Clad	Positive	9 mm	0.3031	0.4530	0.2700	0.4390	0.460-0.475	Viton
122-1318	Metal Clad	Positive	11/32	0.3047	0.4331	0.2520	0.5079	0.512-0.520	Viton
122-1474	Metal Clad	Positive	9 mm	0.3047	0.5571	0.3917	0.6260	0.630-0.637	Viton
122-1402	Metal Clad	Positive	8 mm	0.3050	0.5708	0.3937	0.5016	0.510-0.520	Viton
122-1203	Metal Clad	Positive	11/32	0.3060	0.4180	0.2635	0.4820	0.485-0.500	Viton
122-1216	Metal Clad	Positive	11/32	0.3070	0.5433	0.3780	0.4805	0.490-0.500	Viton
122-1200	Metal Clad	Positive	11/32	0.3080	0.5827	0.4311	0.5461	0.550-0.562	Viton
122-1199	Metal Clad	Positive	11/32	0.3080	0.5827	0.4252	0.5490	0.550-0.562	Viton
122-1215	Metal Clad	Positive	11/32	0.3106	0.5430	0.3820	0.4800	0.490-0.500	Viton
122-1473	Metal Clad	Positive	9 mm	0.3130	0.4350	0.2087	0.4601	0.465-0.485	ACM
122-1492	Metal Clad	Positive	9 mm	0.3157	0.4173	0.2420	0.4512	0.460-0.475	Viton
122-1482	Metal Clad	Positive	9 mm	0.3157	0.4921	0.3307	0.5197	0.530-0.540	Viton
122-1461	Metal Clad	Positive	3/8	0.3160	0.5970	0.4230	0.5250	0.530-0.540	Viton
122-1332	Metal Clad	Positive	3/8	0.3189	0.4075	0.2480	0.5787	0.585-0.595	Viton
122-1315	Metal Clad	Positive	9 mm	0.3210	0.6770	0.5040	0.5350	0.540-0.550	Viton
122-1369	Metal Clad	Positive	9 mm	0.3210	0.7300	0.5650	0.5450	0.552-0.562	Viton
122-1373	Metal Clad	Positive	3/8	0.3220	0.3540	0.2400	0.4890	0.500-0.510	Viton
322-1024	Metal Clad	Positive	3/8	0.3228	0.4331	0.2520	0.5433	0.562	Viton
122-1274	Metal Clad	Positive	3/8	0.3260	0.7020	0.5150	0.6640	0.665-0.670	Viton
122-1361	Metal Clad	Positive	3/8	0.3260	0.7020	0.4600	0.5800	0.585-0.590	Viton
122-1448	Metal Clad	Positive	3/8	0.3300	0.5100	0.2950	0.5500	0.555-0.565	Viton
122-1374	Metal Clad	Positive	3/8	0.3320	0.3900	0.2460	0.5550	0.565	Viton
122-1232	Metal Clad	Positive	3/8	0.3320	0.6910	0.5030	0.6270	0.628-0.630	Viton
322-1013	Metal Clad	Positive	3/8	0.3380	0.5200	0.3550	0.5200	0.531	Viton
122-1237	Metal Clad	Positive	3/8	0.3380	0.5210	0.3675	0.6180	0.620-0.630	Viton
322-1012	Metal Clad	Positive	3/8	0.3400	0.5300	0.3800	0.4900	0.500	Viton
122-1506	Metal Clad	Positive	10 mm	0.3402	0.4331	0.2535	0.4764	0.495-0.510	Viton
122-1407	Metal Clad	Positive	10 mm	0.3445	0.6516	0.4193	0.5315	0.536-0.546	Viton
122-1345	Metal Clad	Positive	3/8	0.3455	0.5140	0.3030	0.6035	0.615-0.620	Viton
122-1504	Metal Clad	Positive	9mm	0.3465	0.4409	0.3858	0.4882	0.492-0.502	Viton

Valve Stem Seals

Listed By Style, Type, & Nominal Stem Diameter

SBI Part #	Style	Type	Nominal Stem Dia.	Top Stem I.D.	Overall Height	Inner Seal Height	Bottom Seal I.D.	Nominal Guide O.D.	Material
122-1500	Metal Clad	Positive	10 mm	0.3512	0.3720	0.2539	0.5327	0.545-0.555	Viton
122-1241	Metal Clad	Positive	3/8	0.3650	0.6200	0.2760	0.5650	0.564-0.570	Viton
122-1471	Metal Clad	Positive	1/2	0.4197	0.5197	0.3189	0.6378	0.650-0.670	Viton
122-1322	Metal Clad	Positive	1/2	0.4780	0.4940	0.3600	0.6550	0.662-0.670	Viton
122-1443	Oil Shield	Umbrella	3/8	0.3680	0.5990	0.4375	0.6800	N/A	Nylon
122-1328	Oil Shield	Umbrella	3/8	0.3710	0.5700	0.3800	0.7650	N/A	Nylon
122-1426	Oil Shield	Umbrella	3/8	0.3740	0.2320	N/A	0.3850	N/A	Nylon
122-1177	Oil Shield	Umbrella	3/8	0.3820	0.2120	0.0390	0.5710	N/A	Nylon
122-1414	Oil Shield	Umbrella	1/2	0.5000	0.8200	0.6700	0.7900	N/A	Nylon
122-1043	O-Ring	O-Ring	5/16	0.2740	0.0750	N/A	N/A	N/A	Nitrile
122-1023	O-Ring	O-Ring	3/8	0.3080	0.0680	N/A	N/A	N/A	Poly
122-1236	Ring & Band	Positive	1/4	0.2323	0.4724	0.3090	0.4354	0.450-0.500	Viton
122-1358	Ring & Band	Positive	7 mm	0.2520	0.4850	0.3300	0.4950	0.500-0.531	Viton
122-1357	Ring & Band	Positive	7 mm	0.2520	0.4850	0.3300	0.4950	0.500-0.531	Viton
122-1485	Ring & Band	Positive	7 mm	0.2598	0.4764	0.3071	0.3760	0.430-0.440	Viton
122-1212	Ring & Band	Positive	5/16	0.2850	0.3620	0.2000	0.3920	0.395-0.410	Viton
122-1340	Ring & Band	Positive	5/16	0.2880	0.4810	0.3100	0.4650	0.475-0.500	Viton
122-1269	Ring & Band	Positive	8 mm	0.2900	0.4860	0.3375	0.4620	0.475-0.531	Viton
122-1341	Ring & Band	Positive	5/16	0.2910	0.4750	0.3120	0.4650	0.475-0.500	Viton
122-1066	Ring & Band	Positive	7.5 mm	0.2920	0.4875	0.3120	0.4820	0.500-0.531	Viton
122-1065	Ring & Band	Positive	7.5 mm	0.2920	0.4875	0.3150	0.4920	0.500-0.531	Viton
122-1069	Ring & Band	Positive	5/16	0.2920	0.4800	0.3060	0.4630	0.475-0.500	Viton
122-1053	Ring & Band	Positive	8 mm	0.2950	0.4930	0.3375	0.4700	0.475-0.531	Viton
122-1074	Ring & Band	Positive	11/32	0.2992	0.5492	0.3811	0.4468	0.475-0.531	Viton
122-1052	Ring & Band	Positive	5/16	0.3000	0.4905	0.3520	0.4750	0.475-0.531	Viton
122-1077	Ring & Band	Positive	5/16	0.3000	0.4500	0.2770	0.4250	0.460-0.510	Viton
122-1217	Ring & Band	Positive	11/32	0.3000	0.4820	0.3050	0.4850	0.500-0.531	Viton
122-1006	Ring & Band	Positive	11/32	0.3071	0.4921	0.3150	0.4921	0.502-0.531	Rubber
122-1075	Ring & Band	Positive	11/32	0.3130	0.4900	0.3220	0.4940	0.500-0.531	Viton
122-1325	Ring & Band	Positive	11/32	0.3146	0.4862	0.3051	0.5905	0.625-0.660	Viton
122-1218	Ring & Band	Positive	11/32	0.3150	0.4820	0.3220	0.4950	0.500-0.531	Viton
122-1326	Ring & Band	Positive	11/32	0.3180	0.4900	0.3250	0.6000	0.625-0.660	Viton
122-1316	Ring & Band	Positive	11/32	0.3228	0.4803	0.3071	0.5571	0.550-0.562	Viton
122-1505	Ring & Band	Positive	3/8	0.3380	0.4920	0.3120	0.5880	0.640-0.660	Viton
122-1136	Ring & Spring	Positive	6.5 mm	0.2400	0.3420	0.2177	0.4170	0.439-0.475	Viton
122-1119	Ring & Spring	Positive	7.5 mm	0.2638	0.5634	0.3374	0.4165	0.439-0.475	Viton
122-1263	Ring & Spring	Positive	8 mm	0.2750	0.5710	0.3500	0.4300	0.439-0.475	Viton
122-1362	Ring & Spring	Positive	7/16	0.3860	0.5300	0.3350	0.6050	0.645-0.665	Viton
122-1330	Spring & Band	Positive	3/8	0.3390	0.5000	0.4100	0.5540	0.600-0.625	Viton
122-1501	Top Hat	Positive	5 mm	0.1685	0.6732	0.4606	0.3524	0.360-0.365	Viton
122-1427	Top Hat	Positive	5.5 mm	0.1712	0.6673	0.4902	0.4149	0.420-0.430	Viton
122-1458	Top Hat	Positive	5 mm	0.1713	0.6094	0.4574	0.2913	0.295-0.305	Viton
122-1467	Top Hat	Positive	5.5 mm	0.1724	0.7800	0.6083	0.4213	0.430-0.440	Viton
122-1410	Top Hat	Positive	5.5 mm	0.1745	0.7086	0.5292	0.4252	0.435-0.440	Viton
122-1453	Top Hat	Positive	5 mm	0.1770	0.7050	0.5390	0.3465	0.355-0.365	Viton
122-1411	Top Hat	Positive	5.5 mm	0.1770	0.7086	0.5292	0.4272	0.435-0.440	Viton
122-1440	Top Hat	Positive	5.5 mm	0.1791	0.7874	0.6102	0.4193	0.430-0.440	Viton
122-1444	Top Hat	Positive	5.5 mm	0.1810	0.7560	0.5950	0.4252	0.435-0.440	Viton
122-1493	Top Hat	Positive	5.5 mm	0.1811	0.6614	0.4941	0.3957	0.405-0.415	Viton
122-1509	Top Hat	Positive	6 mm	0.1890	0.8190	0.6732	0.4213	0.431-0.441	Viton
122-1418	Top Hat	Positive	6 mm	0.1900	0.7880	0.5150	0.4290	0.436-0.436	Viton
122-1495	Top Hat	Positive	6 mm	0.1902	0.7756	0.5866	0.4165	0.420-0.430	Viton
122-1394	Top Hat	Positive	6 mm	0.1910	0.8380	0.3950	0.3920	0.400-0.436	Viton
122-1502	Top Hat	Positive	6 mm	0.1929	0.6299	0.4450	0.4232	0.435-0.445	Viton
122-1455	Top Hat	Positive	6 mm	0.1929	0.7087	0.5138	0.4264	0.435-0.440	Viton
122-1447	Top Hat	Positive	6 mm	0.1929	0.6602	0.5000	0.4110	0.421-0.431	Viton
122-1454	Top Hat	Positive	6 mm	0.1949	0.7087	0.5138	0.4264	0.435-0.440	Viton
122-1349	Top Hat	Positive	6 mm	0.1969	0.7339	0.6020	0.3917	0.395-0.400	Viton
122-1409	Top Hat	Positive	6 mm	0.1969	0.6248	0.4957	0.4197	0.430-0.440	Viton

Valve Stem Seals

Listed By Style, Type, & Nominal Stem Diameter

SBI Part #	Style	Type	Nominal Stem Dia.	Top Stem I.D.	Overall Height	Inner Seal Height	Bottom Seal I.D.	Nominal Guide O.D.	Material
122-1503	Top Hat	Positive	6 mm	0.1969	0.6299	0.4450	0.4232	0.435-0.445	Viton
122-1457	Top Hat	Positive	6 mm	0.1969	0.6417	0.4937	0.4638	0.475-0.480	Viton
122-1356	Top Hat	Positive	6 mm	0.1980	0.7250	0.5900	0.4100	0.415-0.430	Viton
122-1327	Top Hat	Positive	5/16	0.2020	0.7165	0.5630	0.4290	0.435-0.445	Viton
122-1229	Top Hat	Positive	7/32	0.2050	0.7370	0.5720	0.4850	0.486-0.495	Viton
122-1251	Top Hat	Positive	1/4	0.2060	0.7070	0.5575	0.4300	0.431-0.436	Viton
122-1331	Top Hat	Positive	6 mm	0.2100	0.5120	0.3500	0.4370	0.438-0.445	Viton
122-1342	Top Hat	Positive	6 mm	0.2100	0.8000	0.6890	0.4600	0.470-0.475	Viton
122-1355	Top Hat	Positive	6 mm	0.2126	0.6300	0.5197	0.3858	0.385-0.395	Viton
122-1288	Top Hat	Positive	6 mm	0.2126	0.5710	0.3620	0.4150	0.434-0.439	Viton
122-1494	Top Hat	Positive	7 mm	0.2213	0.7402	0.5551	0.4693	0.475-0.485	Viton
122-1510	Top Hat	Positive	7 mm	0.2283	0.8091	0.5906	0.4429	0.453-0.463	Viton
122-1441	Top Hat	Positive	7 mm	0.2303	0.6528	0.4409	0.4606	0.470-0.480	Viton
122-1254	Top Hat	Positive	7 mm	0.2323	0.6555	0.4330	0.4450	0.446-0.455	Viton
122-1489	Top Hat	Positive	7 mm	0.2362	0.9173	0.7343	0.4606	0.470-0.480	Viton
122-1488	Top Hat	Positive	7 mm	0.2362	0.9173	0.7354	0.4606	0.470-0.480	Viton
122-1348	Top Hat	Positive	7 mm	0.2370	0.6500	0.5400	0.4600	0.470-0.475	Viton
122-1324	Top Hat	Positive	7 mm	0.2410	0.7870	0.6610	0.4950	0.500-0.510	Viton
122-1344	Top Hat	Positive	7 mm	0.2410	0.7205	0.5630	0.4645	0.465-0.475	Viton
122-1351	Top Hat	Positive	7 mm	0.2440	0.8350	0.6600	0.4850	0.495-0.500	Viton
122-1419	Top Hat	Positive	7 mm	0.2450	0.6400	0.4850	0.4780	0.490-0.500	Viton
122-1371	Top Hat	Positive	7 mm	0.2453	0.6340	0.4173	0.4900	0.510-0.520	Viton
122-1470	Top Hat	Positive	7 mm	0.2460	0.3000	0.0920	0.4500	N/A	Viton
122-1370	Top Hat	Positive	7 mm	0.2461	0.6340	0.4090	0.4905	0.510-0.520	Viton
122-1449	Top Hat	Positive	7 mm	0.2470	0.7950	0.6385	0.4750	0.480-0.500	Viton
122-1230	Top Hat	Positive	1/4	0.2480	0.5710	0.4275	0.4370	0.450-0.455	Viton
122-1378	Top Hat	Positive	7 mm	0.2510	1.0270	0.6590	0.5020	0.505-0.515	Viton
122-1477	Top Hat	Positive	7 mm	0.2539	0.6024	0.4213	0.4941	0.510-0.520	Viton
122-1413	Top Hat	Positive	5/16	0.2640	0.9430	0.7673	0.4875	0.510-0.520	Viton
122-1445	Top Hat	Positive	8 mm	0.2728	0.9783	0.8150	0.4882	0.498-0.508	Viton
122-1336	Top Hat	Positive	5/16	0.2750	0.9000	0.6300	0.5400	0.550-0.560	Viton
122-1206	Top Hat	Positive	8 mm	0.2750	0.7165	0.5100	0.4645	0.470-0.480	Viton
122-1314	Top Hat	Positive	5/16	0.2780	0.8870	0.6543	0.4800	0.510-0.520	Viton
122-1377	Top Hat	Positive	11/32	0.2795	0.7775	0.5196	0.5669	0.562-0.570	Viton
122-1354	Top Hat	Positive	5/16	0.2800	1.0450	0.8650	0.5100	0.515-0.525	Viton
122-1423	Top Hat	Positive	5/16	0.2800	1.1360	0.9700	0.5100	0.515-0.525	Viton
122-1421	Top Hat	Positive	8 mm	0.2820	0.8815	0.7245	0.5178	0.525-0.535	Viton
122-1338	Top Hat	Positive	5/16	0.2830	0.8900	0.7150	0.4920	0.495-0.510	Viton
122-1337	Top Hat	Positive	5/16	0.2830	0.8900	0.7150	0.4920	0.495-0.510	Viton
122-1460	Top Hat	Positive	5/16	0.2846	0.8307	0.6550	0.5433	0.555-0.565	Viton
122-1439	Top Hat	Positive	5/16	0.2874	0.7343	0.5669	0.5413	0.550-0.560	Viton
122-1365	Top Hat	Positive	5/16	0.2880	0.9528	0.7598	0.5197	0.538-0.558	Viton
122-1300	Top Hat	Positive	5/16	0.2920	1.1300	0.9280	0.5500	0.565-0.575	Viton
122-1364	Top Hat	Positive	5/16	0.2920	1.1180	0.9610	0.4570	0.500-0.510	Viton
122-1333	Top Hat	Positive	5/16	0.2970	1.0900	0.9150	0.5530	0.562-0.572	Viton
122-1299	Top Hat	Positive	5/16	0.3000	1.1120	0.9580	0.4600	0.465-0.475	Viton
122-1499	Top Hat	Positive	9 mm	0.3122	0.8740	0.6870	0.5776	0.590-0.595	Viton
122-1393	Top Hat	Positive	3/8	0.3150	1.2500	1.0700	0.5630	0.572-0.582	Viton
122-1435	Top Hat	Positive	9 mm	0.3248	0.6811	0.5197	0.5039	0.513-0.523	Viton
122-1420	Top Hat	Positive	9 mm	0.3268	0.8015	0.6295	0.5850	0.590-0.595	Viton
122-1391	Top Hat	Positive	3/8	0.3270	1.1180	0.9380	0.6140	0.629-0.631	Viton
122-1415	Top Hat	Positive	9 mm	0.3315	0.7878	0.6340	0.5710	0.581-0.601	Viton
122-1434	Top Hat	Positive	9 mm	0.3346	0.6811	0.5197	0.5039	0.513-0.523	Viton
122-1466	Top Hat	Positive	9 mm	0.3360	0.8300	0.6800	0.5760	0.586-0.596	Viton
122-1320	Top Hat	Positive	3/8	0.3390	1.1200	0.9250	0.6000	0.610-0.620	Viton
122-1436	Top Hat	Positive	3/8	0.3440	1.2480	1.0600	0.5630	0.575-0.585	Viton
122-1490	Top Hat	Positive	3/8	0.3450	1.2650	1.0700	0.5700	0.572-0.592	Viton
122-1243	Top Hat	Positive	3/8	0.3500	1.0900	0.9260	0.6180	0.629-0.631	Viton
122-1301	Top Hat	Positive	3/8	0.3540	1.3100	1.1200	0.6180	0.625-0.635	Viton

Valve Stem Seals

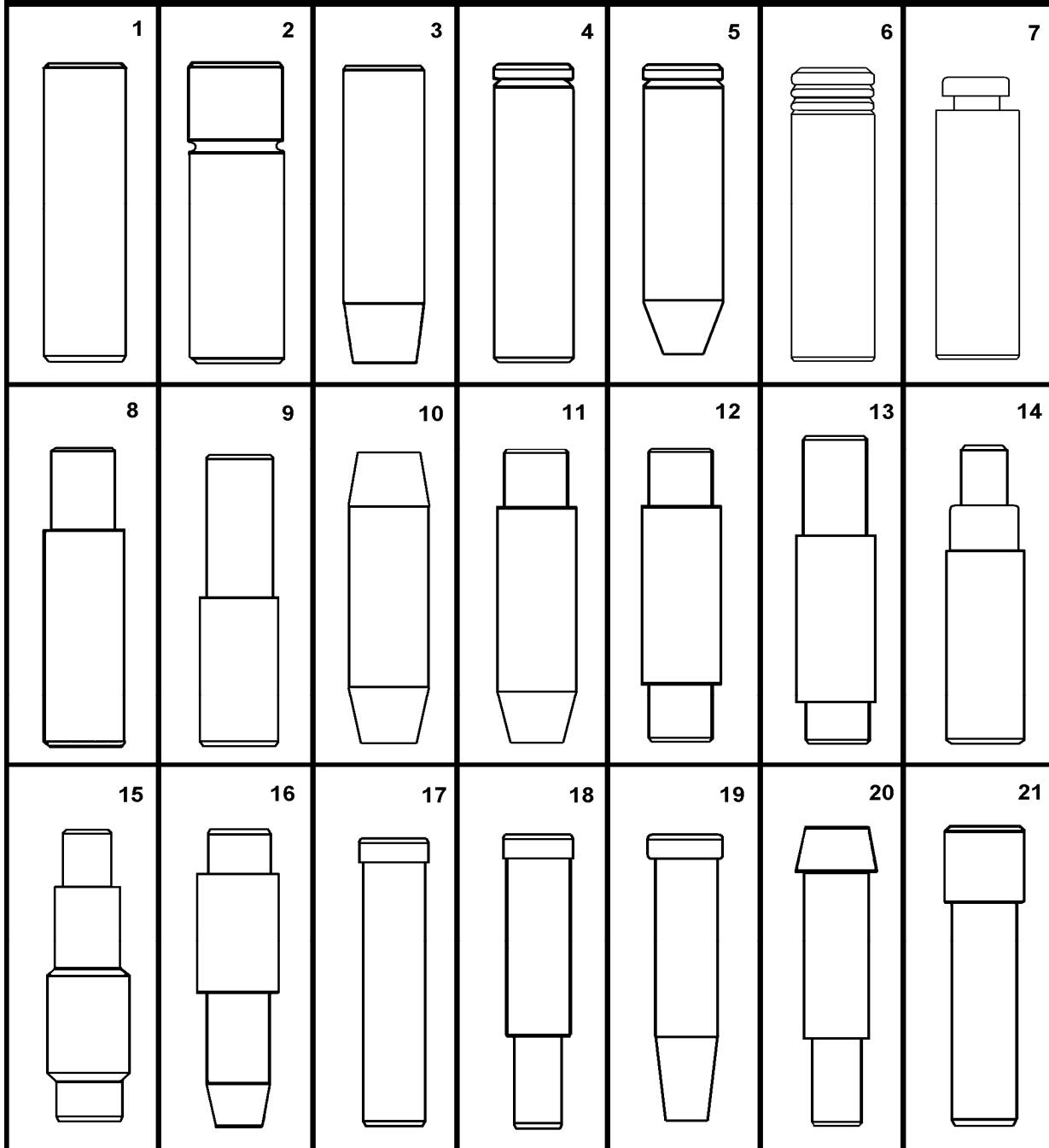
Listed By Style, Type, & Nominal Stem Diameter

SBI Part #	Style	Type	Nominal Stem Dia.	Top Stem I.D.	Overall Height	Inner Seal Height	Bottom Seal I.D.	Nominal Guide O.D.	Material
122-1302	Top Hat	Positive	3/8	0.3540	1.2520	0.9450	0.5510	0.575-0.585	Viton
122-1239	Top Hat	Positive	3/8	0.3550	1.4890	1.3000	0.6200	0.625-0.635	Viton
122-1463	Top Hat	Positive	3/8	0.3570	2.0250	1.8350	0.5500	0.555-0.565	Viton
122-1412	Umbrella	Umbrella	5/16	0.2408	0.5078	0.4015	0.6654	N/A	Viton
122-1431	Umbrella	Umbrella	11/32	0.2750	0.7920	0.6100	0.6620	N/A	Poly
122-1035	Umbrella	Umbrella	5/16	0.2850	0.5900	0.4000	0.7500	N/A	Poly
122-1034	Umbrella	Umbrella	5/16	0.2920	0.6950	0.4915	0.7280	N/A	Poly
122-1007	Umbrella	Umbrella	3/8	0.3100	0.7620	0.6370	0.6870	N/A	Nitrile
122-1270	Umbrella	Umbrella	11/32	0.3120	0.5600	0.4245	0.6450	N/A	Viton
122-1038	Umbrella	Umbrella	11/32	0.3150	0.7150	0.5125	0.6430	N/A	Poly
122-1005	Umbrella	Umbrella	3/8	0.3160	0.7200	0.5000	0.7500	N/A	Rubber
122-1037	Umbrella	Umbrella	11/32	0.3200	0.5600	0.4510	0.6845	N/A	Poly
122-1041	Umbrella	Umbrella	11/32	0.3200	0.6850	0.5485	0.7565	N/A	Poly
122-1032	Umbrella	Umbrella	11/32	0.3200	0.4500	0.3040	0.8075	N/A	Poly
122-1045	Umbrella	Umbrella	3/8	0.3200	0.8700	0.6970	0.6695	N/A	Poly
122-1051	Umbrella	Umbrella	11/32	0.3230	0.3230	0.1810	0.8800	N/A	Poly
122-1036	Umbrella	Umbrella	3/8	0.3307	0.6378	0.3937	0.7560	N/A	Poly
122-1233	Umbrella	Umbrella	11/32	0.3370	0.4500	0.3400	0.6150	N/A	Nylon
122-1033	Umbrella	Umbrella	3/8	0.3460	0.7900	0.3850	0.7640	N/A	Poly
122-1003	Umbrella	Umbrella	3/8	0.3590	0.8050	0.6000	0.7355	N/A	Nitrile
122-1234	Umbrella	Umbrella	3/8	0.3670	0.4535	0.3370	0.6150	N/A	Nylon
122-1059	Umbrella	Umbrella	3/8	0.3680	0.7030	0.5200	0.8170	N/A	GF Nylon
122-1392	Umbrella	Umbrella	3/8	0.3720	0.7200	0.5550	0.8800	N/A	Nylon
122-1376	Valve Guide Seal	O-Ring	N/A	N/A	N/A	N/A	N/A	N/A	Nitrile
122-9005	Valve Seal Driver	Red							
122-9003	Valve Seal Driver	White							
122-9004	Valve Seal Driver	Black							
122-1238	Viton Insert	Umbrella	11/32	0.3150	0.4547	0.2850	0.6280	N/A	Nylon/Viton
122-1287	Viton Insert	Umbrella	3/8	0.3540	0.8110	0.6380	0.8010	N/A	Nylon/Viton

VALVE GUIDES

Drawings are **NOT** to Scale

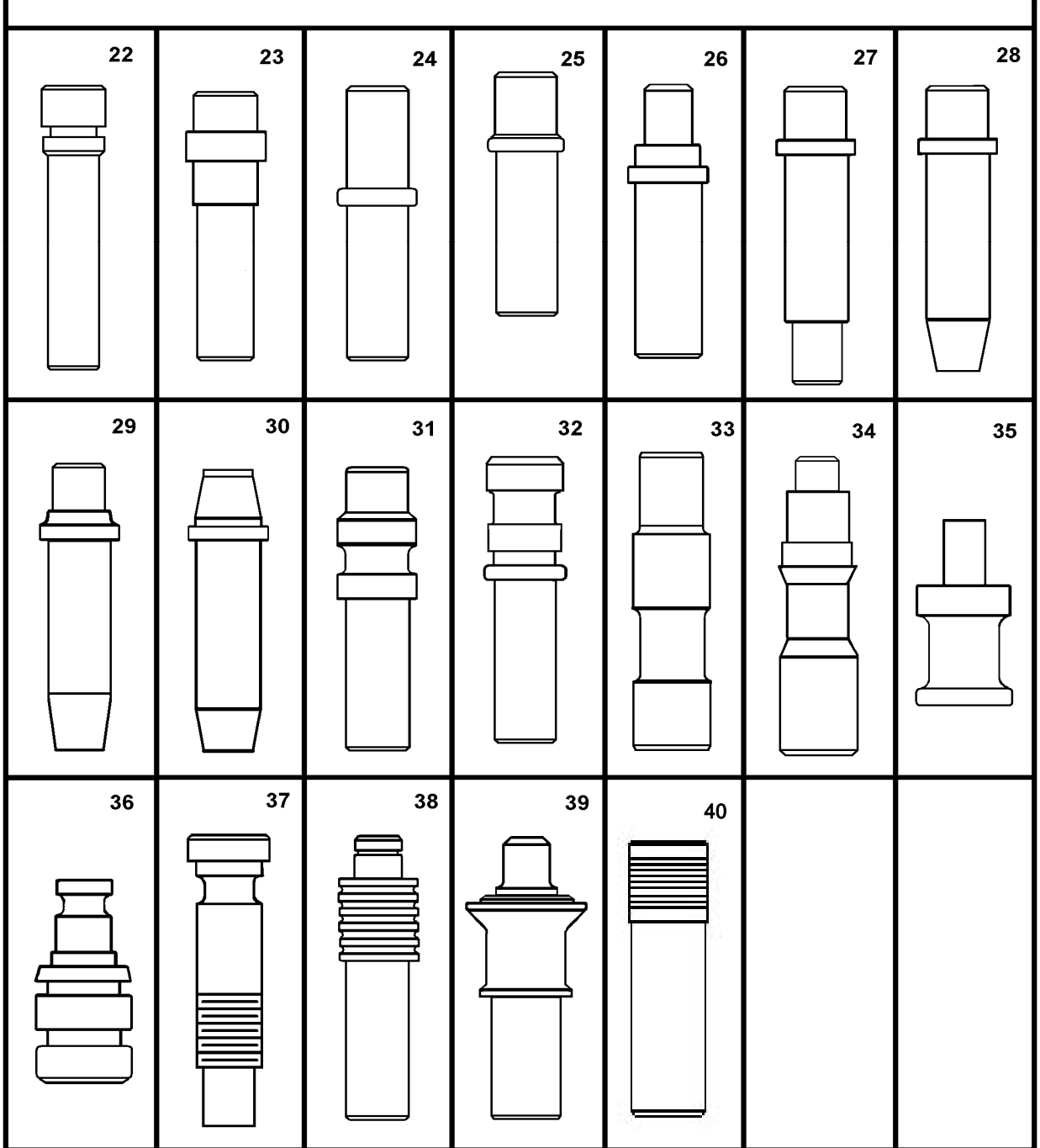
These drawings are only a general guide as to the shape of the outside of the Valve Guide.
Type numbers are listed with the part number in the Numerical Section.



VALVE GUIDES

Drawings are **NOT** to Scale

These drawings are only a general guide as to the shape of the outside of the Valve Guide.
Type numbers are listed with the part number in the Numerical Section.



Valve Guide Numerical Listing

Includes Conversion Guides

SBI Part #	I.D.	O.D.	Length	Type	Material
140-1337	0.3445	0.6575	2.813	11-P	IRON
140-1338	0.3425	0.6575	2.813	11-P	IRON
140-1342	0.3750	0.6580	3.063	11-P	IRON
140-1411	0.3440	0.6890	3.078	13-P	IRON
140-1421	0.3750	0.6895	2.750	8-P	IRON
140-1453	0.3435	0.5655	3.219	8-P	IRON
140-1458	0.3135	0.5016	2.500	1-P	IRON
140-1470	0.3750	0.6573	2.750	3-P	IRON
140-1476	0.3432	0.5655	2.188	1-P	IRON
140-1503	0.3130	0.6578	2.125	8-P	IRON
140-1504	0.3750	0.6580	2.750	13-P	IRON
140-1515	0.3427	0.6573	2.563	11-P	IRON
140-1527	0.3435	0.5650	2.438	1-P	IRON
140-1543	0.3435	0.5648	2.688	25-P	IRON
140-1544	0.3435	0.5953	2.625	1-P	IRON
140-1545N	0.3435	0.5953	2.938	8-P	IRON
140-1546	0.3745	0.6893	2.750	1-P	IRON
140-1547N	0.3745	0.6895	3.219	8-P	IRON
140-1568	0.3120	0.4856	2.094	8-P	IRON
140-1577	0.3130	0.5645	2.750	11-P	IRON
140-1578	0.4050	0.7520	3.970	1-P	IRON
140-1579	0.3745	0.6888	3.750	1-P	IRON
140-1593	0.4995	0.8765	5.438	26-P	IRON
140-1600	0.4390	0.8780	3.875	8-P	IRON
140-1614	0.3435	1.0303	2.210	36-P	IRON
140-1618	0.3745	0.6573	2.375	8-P	IRON
140-1619	0.3163	0.5645	2.281	11-P	IRON
140-1620	0.3425	0.6573	2.313	11-P	IRON
140-1636	0.3120	0.6265	1.500	8-P	IRON
140-1644	0.5010	0.8785	4.750	11-P	IRON
140-1673	0.3434	0.6571	2.688	8-P	IRON
140-1678	0.3164	0.5643	1.658	8-P	IRON
140-1680	0.3450	0.5639	3.250	1-SR	IRON
140-1680+5	0.3450	0.5689	3.250	1-SR	IRON
140-1689	0.3445	0.5643	2.625	3-P	IRON
140-1690	0.3435	0.5645	3.000	3-P	IRON
140-1697	0.3120	0.5325	2.094	11-P	IRON
140-1703	0.3125	0.5640	2.563	8-P	IRON
140-1704	0.3750	0.6580	2.375	8-P	IRON
140-1711	0.4405	0.8133	4.250	24-P	IRON
140-1717	0.3170	0.5643	1.813	1-SR	IRON
140-1723	0.3115	0.5018	2.500	8-P	IRON
140-1726	0.3437	0.7515	2.470	3-P	IRON
140-1732	0.3435	0.5648	3.344	8-P	IRON
140-1733	0.3745	0.6265	2.750	10-P	IRON
140-1740	0.3745	0.6893	2.813	1-P	IRON
140-1745	0.3445	0.5636	2.266	8-SR	IRON
140-1747	0.3760	0.6268	2.420	8-P	IRON
140-1758	0.3435	0.5650	2.188	1-P	IRON
140-1803	0.3745	0.6895	2.938	13-P	IRON
140-1804	0.3440	0.5645	2.656	1-P	IRON
140-1809	0.5000	0.6886	3.500	9-P	IRON
140-1810	0.5015	0.6886	3.500	9-P	IRON
140-1813	0.4380	0.8138	3.125	13-P	IRON
140-1814	0.4380	0.8140	3.438	12-P	IRON
140-1817	0.4385	0.6265	3.063	8-P	IRON
140-1821	0.3450	0.6578	2.374	1-SR	IRON
140-1823	0.3429	0.5633	2.810	1-SR	IRON
140-1829	0.4050	0.7520	4.375	11-P	IRON
140-1830	0.4050	0.7518	3.594	11-P	IRON

Valve Guide Numerical Listing

Includes Conversion Guides

SBI Part #	I.D.	O.D.	Length	Type	Material
140-1832	0.3130	0.5000	2.500	1-SR	IRON
140-1832+2	0.3130	0.5020	2.500	1-SR	IRON
140-1833	0.3432	0.6575	1.813	1-SR	IRON
140-1839	0.4385	0.6887	3.090	1-P	IRON
140-1851	0.3130	0.5640	2.250	8-P	IRON
140-1852	0.3130	0.5640	2.656	8-P	IRON
140-1853	0.3750	0.6890	2.344	2-P	IRON
140-1854	0.3445	0.5665	2.250	2-SR	IRON
140-1857	0.5015	0.7525	3.875	9-P	IRON
140-1858	0.3750	0.6898	3.344	8-P	IRON
140-1859	0.3750	0.6898	2.797	9-P	IRON
140-1860	0.3437	0.6277	2.375	8-P	IRON
140-1865	0.4050	0.7520	3.219	8-P	IRON
140-1872	0.3427	0.6570	2.437	8-P	IRON
140-1873	0.3427	0.6575	2.844	14-P	IRON
140-1874	0.3440	0.6570	3.125	8-P	IRON
140-1875	0.3440	0.6575	3.250	13-P	IRON
140-1878	0.3973	0.6580	2.375	1-SR	IRON
140-1880	0.3435	0.5960	2.610	10-P	IRON
140-1881	0.3745	0.6265	2.844	1-P	IRON
140-1881+2	0.3745	0.6285	2.844	1-P	IRON
140-1888	0.4405	0.8140	4.250	23-P	IRON
140-1896	0.3440	0.6277	2.859	8-P	IRON
140-1897	0.3745	0.6255	2.938	11-P	IRON
140-1898	0.3750	0.6255	3.313	11-P	IRON
140-1898+2	0.3750	0.6275	3.313	11-P	IRON
140-1899	0.3440	0.6277	2.969	8-P	IRON
140-1906N	0.3771	0.6577	3.220	16-P	IRON
140-1907	0.3135	0.4390	1.813	1-SR	IRON
140-1908	0.3135	0.4385	2.500	1-P	IRON
140-1909	0.3135	0.4385	2.064	1-P	IRON
140-1914	0.4370	0.7515	3.125	24-P	IRON
140-1919	0.3740	0.6006	2.250	4-P	IRON
140-1923	0.3745	0.6258	2.938	1-SR	IRON
140-1924	0.3745	0.6260	2.250	1-SR	IRON
140-1927	0.3745	0.6257	2.625	4-SR	IRON
140-1932	0.5640	1.0030	5.375	11-P	IRON
140-1937	0.3750	0.6270	2.563	11-P	IRON
140-1941	0.4525	0.7518	3.010	7-SR	IRON
140-1941SA	0.4525	0.7518	3.010	7-SR	IRON
140-1943	0.3445	0.5640	2.250	9-P	IRON
140-1944	0.3445	0.5640	2.125	9-P	IRON
140-1946	0.3130	0.4998	2.380	11-SR	IRON
140-1946+10	0.3130	0.5098	2.380	11-SR	IRON
140-1946+2	0.3130	0.5018	2.380	11-SR	IRON
140-1946+3	0.3130	0.5028	2.380	11-SR	IRON
140-1946+5	0.3130	0.5048	2.380	11-SR	IRON
140-1947	0.3745	0.6265	2.500	1-SR	IRON
140-1952	0.3745	0.6260	2.406	8-SR	IRON
140-1953	0.3745	0.6260	2.313	1-SR	IRON
140-1954	0.3745	0.6258	3.188	1-SR	IRON
140-1956	0.3150	0.5025	2.438	1-P	IRON
140-1957	0.4375	0.6890	3.172	8-SR	IRON
140-1962	0.3433	0.6570	2.375	8-P	IRON
140-1965	0.3745	0.6260	3.500	3-SR	IRON
140-1966	0.3440	0.7513	2.938	3-P	IRON
140-1968	0.4190	0.6890	2.906	8-P	IRON
140-1969	0.4050	0.7520	3.438	10-SR	IRON
140-1970	0.3433	0.6575	2.719	9-P	IRON
140-1972	0.3740	0.6203	2.630	12-P	IRON

P=Plain I.D., SR=Spiral Reamed I.D.

Valve Guide Numerical Listing

Includes Conversion Guides

SBI Part #	I.D.	O.D.	Length	Type	Material
140-1973	0.3735	0.6255	2.420	8-P	IRON
140-1974	0.3445	0.6260	2.310	8-P	IRON
140-1976	0.3755	0.6265	2.281	8-P	IRON
140-1977	0.3755	0.6265	2.406	8-P	IRON
140-3000	0.2770	0.4390	1.660	1-SR	IRON
140-3001	0.2770	0.4390	1.990	1-SR	IRON
140-3006	0.3745	0.6265	2.395	3-P	IRON
140-3007	0.3745	0.6298	3.358	7-SR	IRON
140-3007+2	0.3745	0.6318	3.358	7-SR	IRON
140-3007+5	0.3745	0.6348	3.358	7-SR	IRON
140-3008	0.3819	0.6506	3.374	8-SR	IRON
140-3008+2	0.3819	0.6526	3.374	8-SR	IRON
140-3009	0.2763	0.5110	2.289	1-P	IRON
140-3009+2	0.2763	0.5130	2.289	1-P	IRON
140-3010	0.2362	0.3950	1.773	8-P	IRON
140-3011	0.2362	0.3950	1.378	8-P	IRON
140-3012	0.3175	0.5339	2.540	8-P	IRON
140-3014	0.3740	0.6890	3.050	7-SR	IRON
140-3015	0.3420	0.5020	2.120	21-P	IRON
140-3016	0.3420	0.5020	2.210	21-P	IRON
140-3019	0.2358	0.4355	1.615	1-P	IRON
140-3020	0.2366	0.4493	1.510	1-SR	IRON
140-3021	0.2776	0.5015	1.937	21-SR	IRON
140-3022	0.2776	0.5015	2.020	21-SR	IRON
140-3023	0.2751	0.4934	2.275	4-SR	IRON
140-3023+2	0.2751	0.4954	2.275	4-SR	IRON
140-3024	0.3735	0.6203	2.620	9-SR	IRON
140-3025	0.3735	0.6265	2.250	9-SR	IRON
140-3026	0.2752	0.4720	1.702	1-P	IRON
140-3026+2	0.2752	0.4740	1.702	1-P	IRON
140-3026H	0.2752	0.4720	1.702	1-P	IRON
140-3026H+2	0.2752	0.4740	1.702	1-P	IRON
140-3027	0.3750	0.7833	3.189	1-SR	IRON
140-3028	0.2175	0.3774	1.455	1-SR	IRON
140-3029	0.2365	0.3950	1.420	1-P	IRON
140-3029+2	0.2365	0.3970	1.420	1-P	IRON
140-3031	0.3145	0.5250	2.185	1-SR	IRON
140-3031+2	0.3145	0.5270	2.185	1-SR	IRON
140-3032	0.3155	0.5250	2.185	1-SR	IRON
140-3032+2	0.3155	0.5270	2.185	1-SR	IRON
140-3033	0.2776	0.5015	1.937	21-SR	IRON
140-3034	0.2780	0.5015	2.020	21-SR	IRON
140-3035	0.3715	0.6883	4.050	8-SR	IRON
140-3035+10	0.3715	0.6983	4.050	8-SR	IRON
140-3035+20	0.3715	0.7083	4.050	8-SR	IRON
140-3036	0.3715	0.6883	4.050	8-SR	IRON
140-3036+10	0.3715	0.6985	4.050	8-SR	IRON
140-3036+20	0.3715	0.7085	4.050	8-SR	IRON
140-3036+5	0.3715	0.6933	4.050	8-SR	IRON
140-3037	0.3743	0.6580	2.780	7-SR	IRON
140-3037+2	0.3743	0.6600	2.780	7-SR	IRON
140-3038	0.3178	0.5130	3.175	12-SR	IRON
140-3039	0.3745	0.6300	3.350	12-SR	IRON
140-3042	0.4977	0.6886	4.055	1-SR	IRON
140-3042+5	0.4977	0.6936	4.055	1-SR	IRON
140-3043	0.3750	0.6884	3.110	6-SR	IRON
140-3046	0.2365	0.4355	1.575	1-P	IRON
140-3047	0.2371	0.4360	1.725	1-P	IRON
140-3048	0.2768	0.4747	2.500	21-SR	IRON
140-3049	0.2755	0.4547	1.967	5-P	IRON

Valve Guide Numerical Listing

Includes Conversion Guides

SBI Part #	I.D.	O.D.	Length	Type	Material
140-3050	0.3570	0.5905	3.355	1-SR	IRON
140-3050+2	0.3570	0.5925	3.355	1-SR	IRON
140-3051	0.3740	0.6890	3.730	8-SR	IRON
140-3052	0.3740	0.6890	4.130	8-SR	IRON
140-3053	0.3154	0.5000	2.115	1-SR	IRON
140-3053+2	0.3154	0.5020	2.115	1-SR	IRON
140-3053H	0.3154	0.5000	2.115	1-SR	IRON
140-3053U	0.3054	0.5000	2.115	1-SR	IRON
140-3054	0.3547	0.5526	2.365	1-P	IRON
140-3055	0.2765	0.4395	2.331	21-P	IRON
140-3056	0.2350	0.4333	1.700	1-P	IRON
140-3057	0.2350	0.4333	1.500	1-P	IRON
140-3058	0.3745	0.6298	3.155	7-SR	IRON
140-3058+2	0.3745	0.6318	3.155	7-SR	IRON
140-3058+5	0.3745	0.6348	3.155	7-SR	IRON
140-3059	0.3555	0.5135	2.018	2-P	IRON
140-3060	0.3547	0.5527	2.018	2-P	IRON
140-3061	0.3819	0.6506	4.105	8-SR	IRON
140-3061+2	0.3819	0.6525	4.105	8-SR	IRON
140-3063	0.3740	0.6264	2.281	8-P	IRON
140-3064	0.3740	0.6264	2.407	8-P	IRON
140-3066	0.2768	0.4390	2.200	1-SR	IRON
140-3067	0.3155	0.5525	2.085	1-SR	IRON
140-3067+2	0.3155	0.5545	2.085	1-SR	IRON
140-3068	0.3761	0.6297	2.835	1-P	IRON
140-3068SA	0.3761	0.6297	2.835	1-P	IRON
140-3070	0.2170	0.4345	1.535	1-P	IRON
140-3071	0.3550	0.5920	2.835	5-P	IRON
140-3072	0.3940	0.5920	2.640	5-P	IRON
140-3074	0.3152	0.6297	2.540	8-P	IRON
140-3075	0.4348	0.7084	3.220	10-P	IRON
140-3076	0.4349	0.7084	2.593	3-P	IRON
140-3077	0.3550	0.5920	1.930	8-P	IRON
140-3079	0.3140	0.5655	2.585	1-P	IRON
140-3080	0.2775	0.4395	1.937	1-SR	IRON
140-3081	0.2775	0.4395	2.020	1-SR	IRON
140-3086	0.3544	0.5535	2.365	4-SR	IRON
140-3088	0.3420	0.5640	2.480	1-P	IRON
140-3089	0.3420	0.5640	2.640	1-P	IRON
140-3091	0.3153	0.4820	2.130	8-P	IRON
140-3092	0.3153	0.4820	2.090	8-P	IRON
140-3093	0.3153	0.4740	1.970	1-P	IRON
140-3097	0.3157	0.4737	1.970	1-P	IRON
140-3098	0.2755	0.4955	1.478	8-P	IRON
140-3099	0.3148	0.5025	2.127	3-P	IRON
140-3100	0.3148	0.5025	2.227	3-P	IRON
140-3101	0.3150	0.5526	2.245	11-P	IRON
140-3102	0.3152	0.5130	2.205	5-P	IRON
140-3103	0.2760	0.4341	1.575	28-P	IRON
140-3104	0.2760	0.4341	1.575	28-P	IRON
140-3105	0.2752	0.4740	1.790	2-P	IRON
140-3112	0.2365	0.4358	1.655	1-SR	IRON
140-3118	0.2360	0.4360	1.556	5-SR	IRON
140-3119	0.2360	0.4360	1.872	5-SR	IRON
140-3123	0.3180	0.5133	3.155	7-SR	IRON
140-3123+20	0.3180	0.5333	3.155	7-SR	IRON
140-3123+5	0.3180	0.5180	3.155	7-SR	IRON
140-3127	0.2365	0.4367	1.380	5-P	IRON
140-3128	0.2165	0.4170	1.580	5-P	IRON
140-3129	0.2167	0.3760	1.660	5-P	IRON

P=Plain I.D., SR=Spiral Reamed I.D.

Valve Guide Numerical Listing

Includes Conversion Guides

SBI Part #	I.D.	O.D.	Length	Type	Material
140-3130	0.2175	0.4075	1.715	5-P	IRON
140-3131	0.3162	0.5335	2.465	1-SR	IRON
140-3132	0.5620	1.0025	5.520	14-SR	IRON
140-3133	0.5620	1.0025	4.820	14-SR	IRON
140-3134	0.2175	0.4073	1.630	5-P	IRON
140-3134+2	0.2175	0.4093	1.630	5-P	IRON
140-3135	0.2175	0.4073	1.850	5-P	IRON
140-3135+2	0.2175	0.4093	1.850	5-P	IRON
140-3136	0.2173	0.4370	1.630	6-SR	IRON
140-3137	0.2173	0.4370	1.790	6-SR	IRON
140-3138	0.3740	0.6890	3.255	8-SR	IRON
140-3139	0.3730	0.6890	4.055	8-SR	IRON
140-3139+10	0.3730	0.6990	4.055	8-SR	IRON
140-3139+20	0.3730	0.7090	4.055	8-SR	IRON
140-3140	0.3730	0.6890	3.620	1-SR	IRON
140-3140+10	0.3730	0.6990	3.620	1-SR	IRON
140-3140+20	0.3730	0.7090	3.620	1-SR	IRON
140-3141	0.2777	0.5020	2.347	8-SR	IRON
140-3142	0.2755	0.4547	1.967	1-P	IRON
140-3143	0.3735	0.6890	4.060	1-SR	IRON
140-3144	0.3735	0.6890	3.615	1-SR	IRON
140-3145	0.3740	0.6890	3.250	1-SR	IRON
140-3145+2	0.3740	0.6910	3.250	1-SR	IRON
140-3145+5	0.3740	0.6940	3.250	1-SR	IRON
140-3149	0.2752	0.4720	1.820	1-P	IRON
140-3152	0.2168	0.4348	1.655	1-P	IRON
140-3154	0.2168	0.4358	1.740	1-P	IRON
140-3156	0.3145	0.5250	2.185	8-SR	IRON
140-3156+2	0.3145	0.5270	2.185	8-SR	IRON
140-3157	0.3157	0.5905	3.285	8-P	IRON
140-3158	0.4528	0.7518	3.167	8-SR	IRON
140-3158SA	0.4528	0.7518	3.167	8-SR	IRON
140-3159BR	0.2362	0.4355	1.415	6-PB	BRONZE
140-3162	0.2372	0.4352	1.535	2-P	IRON
140-3163	0.2764	0.4725	2.150	1-P	IRON
140-3164	0.2364	0.3952	1.820	21-P	IRON
140-3165	0.3142	0.5250	2.185	1-SR	IRON
140-3165+2	0.3142	0.5270	2.185	1-P	IRON
140-3166	0.2373	0.4395	1.715	1-P	IRON
140-3168	0.2361	0.4355	1.655	1-P	IRON
140-3169BR	0.1970	0.3560	1.750	1-PB	BRONZE
140-3170	0.2177	0.4355	1.395	1-P	IRON
140-3174	0.3740	0.6890	3.075	8-P	IRON
140-3175	0.3547	0.5920	2.402	8-P	IRON
140-3176	0.3150	0.5527	2.362	8-P	IRON
140-3177	0.3547	0.5920	2.620	1-P	IRON
140-3178	0.3740	0.5920	3.860	8-P	IRON
140-3179	0.1966	0.3952	1.460	8-P	IRON
140-3180	0.2364	0.4720	1.778	8-P	IRON
140-3181	0.3150	0.4740	2.040	1-P	IRON
140-3182	0.2365	0.4355	1.815	8-P	IRON
140-3182+2	0.2365	0.4375	1.815	8-P	IRON
140-3183	0.3542	0.6312	2.670	8-SR	IRON
140-3184	0.3540	0.6312	2.670	1-SR	IRON
140-3185	0.2760	0.4735	1.910	2-P	IRON
140-3186	0.2760	0.4735	1.770	2-P	IRON
140-3187	0.2760	0.4735	1.695	2-P	IRON
140-3188	0.2365	0.3945	1.378	2-P	IRON
140-3189	0.3545	0.5325	1.990	2-P	IRON
140-3190	0.3158	0.5128	1.930	2-P	IRON

Valve Guide Numerical Listing

Includes Conversion Guides

SBI Part #	I.D.	O.D.	Length	Type	Material
140-3191	0.3158	0.5128	1.810	2-P	IRON
140-3192	0.3155	0.5130	2.200	5-P	IRON
140-3193	0.3155	0.5130	1.970	5-P	IRON
140-3194	0.3178	0.5130	2.407	12-SR	IRON
140-3195	0.3733	0.6888	3.625	8-SR	IRON
140-3196	0.2775	0.4725	2.345	4-SR	IRON
140-3197	0.2775	0.4725	2.345	1-P	IRON
140-3202	0.2756	0.5020	1.460	8-P	IRON
140-3203	0.3142	0.5145	2.210	1-P	IRON
140-3204	0.3150	0.5000	2.235	1-SR	IRON
140-3207	0.3932	0.6297	3.285	8-P	IRON
140-3208	0.2610	0.4740	2.365	4-P	IRON
140-3209	0.3944	0.6305	3.820	8-P	IRON
140-3210	0.3944	0.6305	3.820	8-P	IRON
140-3211	0.3920	0.6313	2.850	8-P	IRON
140-3212	0.2755	0.5130	2.380	8-P	IRON
140-3213	0.1966	0.3952	1.540	8-P	IRON
140-3214H	0.1966	0.3745	1.420	1-P	IRON
140-4941	0.3120	0.5645	2.063	2-P	IRON
140-4944	0.3120	0.6270	2.688	2-P	IRON
140-5379	0.5625	0.8760	3.000	9-P	IRON
140-5604	0.3440	0.5020	2.625	1-P	IRON
140-5604+2	0.3440	0.5040	2.625	1-P	IRON
140-5606	0.3440	0.5020	2.375	1-P	IRON
140-5606U	0.3390	0.5020	2.375	1-P	IRON
140-5607	0.3440	0.5020	2.250	1-P	IRON
140-5607+2	0.3440	0.5040	2.250	1-P	IRON
140-5610	0.3750	0.5020	2.625	1-P	IRON
140-5611	0.2510	0.4390	2.313	1-P	IRON
140-5612	0.3440	0.5020	2.875	1-P	IRON
140-5745	0.3730	0.6265	3.500	8-SR	IRON
140-6053	0.3435	0.4695	2.125	21-SR	IRON
140-6105	0.3440	0.5020	2.500	1-P	IRON
140-6106	0.3430	0.5020	2.750	1-P	IRON
140-6107	0.3740	0.5020	2.250	1-P	IRON
140-6108	0.3740	0.5020	2.375	1-P	IRON
140-6108U	0.3690	0.5020	2.375	1-P	IRON
140-6109	0.3740	0.5020	2.500	1-P	IRON
140-6110	0.3740	0.5020	2.625	1-P	IRON
140-6111	0.3740	0.5020	2.875	1-P	IRON
140-6113	0.3745	0.5020	2.375	1-P	IRON
140-6114	0.3750	0.5020	2.500	1-P	IRON
140-6115	0.3750	0.5020	2.750	1-P	IRON
140-6116	0.4375	0.6270	3.125	1-P	IRON
140-6119	0.4375	0.6267	2.500	1-P	IRON
140-6119+2	0.4375	0.6285	2.500	1-P	IRON
140-6201	0.6245	1.0020	5.188	1-SR	IRON
140-6202	0.6245	1.0020	6.000	1-SR	IRON
140-6254	0.2510	0.4998	2.360	11-SR	IRON
140-6254+10	0.2510	0.5098	2.360	11-SR	IRON
140-6254+2	0.2510	0.5018	2.360	11-SR	IRON
140-6254+3	0.2510	0.5028	2.360	11-SR	IRON
140-6254+5	0.2510	0.5048	2.360	11-SR	IRON
140-6452	0.4528	0.7520	3.195	7-SR	IRON
140-6469	0.5020	0.9383	5.250	25-P	IRON
140-6470	0.5005	0.9383	5.250	25-P	IRON
140-6479	0.8745	1.3763	6.125	26-SR	IRON
140-6523	0.3440	0.5020	3.063	1-P	IRON
140-6529	0.3745	0.7520	3.625	3-P	IRON
140-6546	0.3755	0.7100	3.150	11-SR	IRON

P=Plain I.D., SR=Spiral Reamed I.D.

Valve Guide Numerical Listing

Includes Conversion Guides

SBI Part #	I.D.	O.D.	Length	Type	Material
140-6587	0.3135	0.4390	2.500	1-SR	IRON
140-6730	0.3739	0.6263	2.880	9-SR	IRON
140-6730+2	0.3739	0.6283	2.880	13-SR	IRON
140-6850	0.3720	0.5020	2.625	1-P	IRON
140-6867	0.3440	0.5020	2.125	1-P	IRON
140-6869	0.3125	0.4390	1.875	1-P	IRON
140-6872	0.3120	0.4390	2.281	1-P	IRON
140-6873	0.3450	0.5020	2.125	1-P	IRON
140-6881	0.3140	0.5660	3.031	1-P	IRON
140-6896H	0.3120	0.4390	2.875	1-SR	IRON
140-6897H	0.3120	0.4390	2.188	1-SR	IRON
140-6905	0.3750	0.6275	3.969	1-SR	IRON
140-6913	0.4375	0.6888	3.438	1-SR	IRON
140-6929	0.8745	1.3778	6.125	26-SR	IRON
140-6977	0.3120	0.5020	2.281	1-P	IRON
140-6990	0.3760	0.6270	2.240	8-P	IRON
140-7073	0.3745	0.8775	5.450	8-SR	IRON
140-7073H	0.3745	0.8780	5.450	8-SR	IRON
140-7074H	0.3745	0.8780	5.065	8-SR	IRON
140-7083	0.5020	0.8768	5.045	8-P	IRON
140-7174	0.3745	0.6252	2.600	3-P	IRON
140-7194	0.3750	0.6578	2.781	1-SR	IRON
140-7194+2	0.3750	0.6598	2.781	1-SR	IRON
140-7194+5	0.3750	0.6628	2.781	1-SR	IRON
140-7194SA	0.3750	0.6578	2.781	1-SR	IRON
140-7197	0.4375	0.6270	3.000	1-P	IRON
140-7198	0.3175	0.5020	2.000	8-P	IRON
140-7208	0.3740	0.6205	2.740	12-P	IRON
140-7216	0.3750	0.6890	3.250	2-SR	IRON
140-7216+2	0.3750	0.6910	3.250	2-SR	IRON
140-7216+5	0.3750	0.6940	3.250	2-SR	IRON
140-7216SA	0.3750	0.6890	3.250	2-SR	IRON
140-7216SA+2	0.3750	0.6910	3.250	2-SR	IRON
140-7242	0.3750	0.6585	3.180	13-SR	IRON
140-7242+5	0.3750	0.6635	3.180	13-SR	IRON
140-7248	0.3750	0.5640	2.750	1-SR	IRON
140-7255	0.3750	0.6892	2.815	13-SR	IRON
140-7255+2	0.3750	0.6912	2.815	13-SR	IRON
140-7259	0.3430	0.5020	3.063	1-P	IRON
140-7260	0.3730	0.5020	2.875	1-P	IRON
140-7264	0.4530	0.7620	3.400	4-SR	IRON
140-7271	0.3440	0.5640	2.375	1-SR	IRON
140-7271U	0.3390	0.5640	2.375	1-SR	IRON
140-7272	0.3440	0.5640	2.250	1-SR	IRON
140-7272+3	0.3440	0.5670	2.250	1-SR	IRON
140-7276	0.3740	0.5640	2.375	1-SR	IRON
140-7277	0.3740	0.5640	2.500	1-SR	IRON
140-7278	0.3430	0.5640	3.062	1-SR	IRON
140-7279	0.3730	0.5640	2.875	1-SR	IRON
140-7291	0.3730	0.5640	2.375	1-SR	IRON
140-7298	0.3730	0.5020	2.375	1-P	IRON
140-7336	0.3753	0.6890	2.960	8-SR	IRON
140-7337	0.4370	0.6890	3.090	1-SR	IRON
140-7338	0.5010	0.9385	5.219	8-P	IRON
140-7338+2	0.5010	0.9405	5.219	8-P	IRON
140-7357	0.5020	0.8771	5.438	8-P	IRON
140-7359	0.3155	0.4765	1.435	6-SR	IRON
140-7371	0.4365	0.7510	3.000	26-SR	IRON
140-7372	0.4990	0.8135	3.500	26-SR	IRON
140-7373	0.4977	0.8459	3.580	7-SR	IRON

Valve Guide Numerical Listing

Includes Conversion Guides

SBI Part #	I.D.	O.D.	Length	Type	Material
140-7376	0.3750	0.6268	2.734	8-P	IRON
140-7395	0.3145	0.4750	1.990	2-SR	IRON
140-7398	0.3745	0.6260	2.406	1-SR	IRON
140-7408	0.3120	0.6263	1.340	8-P	IRON
140-7420	0.4370	0.7510	3.875	24-P	IRON
140-7421	0.4370	0.7510	4.375	26-P	IRON
140-7429N	0.3145	0.4937	1.575	4-P	IRON
140-7429N+2	0.3145	0.4957	1.575	4-P	IRON
140-7431	0.3745	0.6263	2.750	3-SR	IRON
140-7431SA	0.3745	0.6263	2.750	3-SR	IRON
140-7444	0.4050	0.7513	3.219	11-P	IRON
140-7447	0.3745	0.5640	2.625	1-SR	IRON
140-7448	0.3745	0.5640	3.000	1-SR	IRON
140-7450	0.3750	0.6265	2.650	26-P	IRON
140-7451N	0.3145	0.4934	1.693	4-P	IRON
140-7451N+2	0.3145	0.4953	1.693	4-P	IRON
140-7456	0.4385	0.6887	3.060	8-SR	IRON
140-7457	0.4385	0.6888	3.060	1-P	IRON
140-7458	0.3740	0.5020	3.060	1-P	IRON
140-7459	0.3430	0.5020	2.375	1-P	IRON
140-7460	0.3430	0.5020	2.500	1-P	IRON
140-7476	0.5005	0.8765	4.325	8-SR	IRON
140-7495	0.3440	0.5650	1.870	3-SR	IRON
140-7498	0.3440	0.5650	2.200	1-SR	IRON
140-7499	0.3155	0.4745	2.313	5-SR	IRON
140-7507	0.3420	0.5640	2.250	1-SR	IRON
140-7523	0.3160	0.5145	2.260	5-SR	IRON
140-7523+2	0.3160	0.5165	2.260	5-SR	IRON
140-7523ALT	0.316	0.5145	2.913	5-SR	IRON
140-7527	0.3155	0.5645	2.360	8-SR	IRON
140-7528	0.3160	0.5645	2.765	8-SR	IRON
140-7529	0.3160	0.5525	2.322	8-SR	IRON
140-7532	0.3155	0.5535	2.130	8-SR	IRON
140-7542	0.3155	0.4745	1.930	2-SR	IRON
140-7545	0.3160	0.4745	1.930	2-SR	IRON
140-7546	0.3115	0.4390	3.063	1-P	IRON
140-7548	0.3937	0.6328	3.040	12-P	IRON
140-7550	0.3725	0.8780	5.450	8-SR	IRON
140-7552	0.3440	0.5640	2.875	1-SR	IRON
140-7554	0.3730	0.5020	2.750	1-P	IRON
140-7562	0.3450	0.5640	2.375	1-SR	IRON
140-7563	0.3435	0.6270	2.835	1-P	IRON
140-7564	0.3435	0.6268	2.563	1-P	IRON
140-7574	0.3150	0.5143	1.848	5-SR	IRON
140-7574+2	0.3150	0.5165	1.848	5-SR	IRON
140-7575	0.3150	0.5145	2.046	5-SR	IRON
140-7575+2	0.3150	0.5165	2.046	5-SR	IRON
140-7575+6	0.3150	0.5205	2.046	5-SR	IRON
140-7576	0.3150	0.5145	1.735	5-SR	IRON
140-7577	0.3150	0.5143	1.890	5-SR	IRON
140-7577+2	0.3150	0.5163	1.890	5-SR	IRON
140-7588	0.3440	0.5640	2.625	1-SR	IRON
140-7589	0.2600	0.4755	1.950	5-P	IRON
140-7592	0.4940	0.6884	3.500	9-P	IRON
140-7604	0.3725	0.9390	5.250	8-SR	IRON
140-7610	0.4977	0.8458	3.585	3-SR	IRON
140-7625	0.3819	0.6504	2.934	10-SR	IRON
140-7625SA	0.3819	0.6504	2.934	10-SR	IRON
140-7656	0.3145	0.5528	1.970	8-P	IRON
140-7659	0.2610	0.4755	2.165	4-SR	IRON

P=Plain I.D., SR=Spiral Reamed I.D.

Valve Guide Numerical Listing

Includes Conversion Guides

SBI Part #	I.D.	O.D.	Length	Type	Material
140-7661	0.3145	0.5020	1.575	4-P	IRON
140-7662	0.3145	0.5020	1.693	4-P	IRON
140-7663	0.3125	0.5020	1.875	1-P	IRON
140-7669	0.3735	0.5020	3.969	1-SR	IRON
140-7679	0.3120	0.5020	2.380	1-P	IRON
140-7681	0.3735	0.5020	2.579	1-P	IRON
140-7682	0.3735	0.5021	2.980	1-P	IRON
140-7689	0.3745	0.6250	2.600	1-P	IRON
140-7710	0.2765	0.4755	2.168	6-P	IRON
140-7712	0.3740	0.6268	2.600	1-P	IRON
140-7712+2	0.3740	0.6288	2.600	1-P	IRON
140-7713	0.3145	0.4745	1.810	2-P	IRON
140-7714	0.3145	0.4745	2.160	2-P	IRON
140-7714+2	0.3145	0.4765	2.160	2-P	IRON
140-7715	0.3430	0.5020	2.125	1-P	IRON
140-7736	0.3740	0.6890	3.250	8-SR	IRON
140-7736SA	0.3740	0.6890	3.250	8-SR	IRON
140-7813	0.3740	0.6263	2.880	13-SR	IRON
140-7822	0.3175	0.5348	2.525	7-P	IRON
140-7822+2	0.3175	0.5368	2.525	7-P	IRON
140-7823	0.3175	0.5655	2.525	7-P	IRON
140-7825	0.2760	0.4745	2.167	4-SR	IRON
140-7826	0.2760	0.4350	1.770	5-SR	IRON
140-7827	0.2760	0.4348	1.770	1-SR	IRON
140-7828	0.3155	0.4745	2.660	5-SR	IRON
140-7830	0.2605	0.4755	1.970	5-SR	IRON
140-7847	0.3135	0.5020	2.250	21-SR	IRON
140-7860	0.4180	0.6890	2.906	8-P	IRON
140-7873	0.2760	0.4423	2.315	8-SR	IRON
140-7876	0.3745	0.6888	2.906	8-P	IRON
140-7892	0.5550	1.0020	5.188	34-SR	IRON
140-7903	0.5000	0.6886	3.500	9-SR	IRON
140-7907	0.3420	0.5020	2.375	1-P	IRON
140-7908	0.3425	0.5020	2.250	1-P	IRON
140-7946	0.3430	0.5020	2.250	1-P	IRON
140-7964	0.3730	0.5020	2.625	1-P	IRON
140-7990	0.4538	0.7518	3.393	1-SR	IRON
140-7994	0.4530	0.7518	3.400	3-SR	IRON
140-7994+2	0.4530	0.7538	3.400	3-SR	IRON
140-7994SA	0.4530	0.7518	3.400	3-SR	IRON
140-7999	0.3740	0.6205	2.200	15-SR	IRON
140-8004	0.4375	0.7835	3.188	8-SR	IRON
140-8007	0.4313	0.6884	3.146	8-P	IRON
140-8008	0.4375	0.6884	3.146	8-SR	IRON
140-8010	0.3750	0.6884	3.155	6-SR	IRON
140-8011	0.5550	1.0020	5.188	14-SR	IRON
140-8013	0.3150	0.5020	2.250	1-P	IRON
140-8016	0.2757	0.4758	1.895	5-SR	IRON
140-8017	0.3160	0.4820	2.500	7-SR	IRON
140-8018	0.3160	0.5140	1.870	5-SR	IRON
140-8020	0.2757	0.4550	1.690	5-SR	IRON
140-8021	0.2757	0.4550	1.930	5-SR	IRON
140-8023	0.3548	0.5525	2.365	2-SR	IRON
140-8024	0.3935	0.6315	2.360	8-SR	IRON
140-8038	0.2371	0.4350	1.595	5-SR	IRON
140-8038+2	0.2371	0.4370	1.595	5-SR	IRON
140-8039	0.2771	0.4342	1.790	5-SR	IRON
140-8039+2	0.2771	0.4362	1.790	5-SR	IRON
140-8040	0.3150	0.5020	2.250	1-SR	IRON
140-8105	0.4375	0.6886	3.406	8-SR	IRON

Valve Guide Numerical Listing

Includes Conversion Guides

SBI Part #	I.D.	O.D.	Length	Type	Material
140-8112	0.3155	0.5530	2.085	11-SR	IRON
140-8112+2	0.3155	0.5550	2.085	11-SR	IRON
140-8113	0.3740	0.6205	2.435	18-SR	IRON
140-8114	0.3155	0.5830	2.770	8-SR	IRON
140-8115	0.3155	0.5830	2.320	8-SR	IRON
140-8122	0.3761	0.6297	2.835	4-SR	IRON
140-8122SA	0.3761	0.6297	2.835	4-SR	IRON
140-8124	0.2767	0.5140	1.740	2-SR	IRON
140-8128	0.3730	0.5640	3.313	1-SR	IRON
140-8133	0.3755	0.7100	3.150	8-SR	IRON
140-8134	0.3819	0.7518	3.400	8-SR	IRON
140-8134+10	0.3819	0.7618	3.400	8-SR	IRON
140-8134SA	0.3819	0.7518	3.400	8-SR	IRON
140-8139	0.2765	0.4763	1.488	29-SR	IRON
140-8142	0.2765	0.4760	2.088	3-SR	IRON
140-8143	0.3153	0.5145	2.260	5-SR	IRON
140-8144	0.2170	0.4365	1.690	5-SR	IRON
140-8147	0.2370	0.4360	1.520	5-SR	IRON
140-8155	0.2605	0.4765	1.975	6-SR	IRON
140-8156	0.2605	0.4765	1.770	6-SR	IRON
140-8157	0.2173	0.4358	2.130	6-SR	IRON
140-8158	0.2173	0.4358	1.875	6-SR	IRON
140-8160	0.4335	0.7100	3.350	1-SR	IRON
140-8161	0.3555	0.5535	2.365	1-SR	IRON
140-8168	0.3555	0.5540	2.200	1-SR	IRON
140-8169	0.3350	0.5530	1.970	1-SR	IRON
140-8170	0.3150	0.5530	2.010	1-SR	IRON
140-8171	0.3180	0.5918	2.520	8-SR	IRON
140-8172	0.3180	0.5531	2.177	3-SR	IRON
140-8172+2	0.3180	0.5551	2.177	3-SR	IRON
140-8173	0.2370	0.4360	1.775	4-SR	IRON
140-8177	0.3162	0.5528	2.382	1-SR	IRON
140-8177SA	0.3162	0.5528	2.382	1-SR	IRON
140-8178	0.3160	0.5528	2.052	1-SR	IRON
140-8178SA	0.3160	0.5528	2.052	1-SR	IRON
140-8180	0.3430	0.5577	2.275	1-SR	IRON
140-8180+2	0.3430	0.5597	2.275	1-SR	IRON
140-8186	0.2371	0.4355	1.920	4-SR	IRON
140-8187	0.2371	0.4355	1.920	5-SR	IRON
140-8188	0.3745	0.6263	2.610	3-SR	IRON
140-8188SA	0.3745	0.6263	2.610	3-SR	IRON
140-8189	0.2340	0.4353	1.651	4-SR	IRON
140-8190	0.2365	0.3950	1.580	5-SR	IRON
140-8191	0.2365	0.3948	1.695	4-SR	IRON
140-8193	0.2600	0.4755	1.795	5-SR	IRON
140-8193+2	0.2600	0.4775	1.795	5-SR	IRON
140-8194	0.2600	0.4755	1.990	5-SR	IRON
140-8194+2	0.2600	0.4775	1.990	5-SR	IRON
140-8195	0.2371	0.4355	1.600	4-SR	IRON
140-8200	0.3165	0.5538	1.992	2-SR	IRON
140-8201	0.3160	0.5145	1.970	4-SR	IRON
140-8202	0.3160	0.5143	2.045	4-SR	IRON
140-8203	0.2365	0.4363	2.065	5-SR	IRON
140-8203+1	0.2365	0.4373	2.065	5-SR	IRON
140-8204	0.2760	0.4350	1.550	4-SR	IRON
140-8205	0.2755	0.4745	1.990	3-SR	IRON
140-8207	0.3160	0.5140	1.820	4-SR	IRON
140-8207+2	0.3160	0.5160	1.820	4-SR	IRON
140-8208	0.2370	0.4350	1.455	5-SR	IRON
140-8209	0.3155	0.4743	2.045	8-SR	IRON

P=Plain I.D., SR=Spiral Reamed I.D.

Valve Guide Numerical Listing

Includes Conversion Guides

SBI Part #	I.D.	O.D.	Length	Type	Material
140-8210	0.3819	0.6504	2.633	8-SR	IRON
140-8210+2	0.3819	0.6524	2.633	8-SR	IRON
140-8210SA	0.3819	0.6504	2.633	8-SR	IRON
140-8211	0.2760	0.4350	2.070	5-SR	IRON
140-8211+2	0.2760	0.4370	2.070	5-SR	IRON
140-8212	0.3155	0.4745	2.205	4-SR	IRON
140-8213	0.2170	0.3760	1.575	4-SR	IRON
140-8216	0.2365	0.3955	1.690	5-SR	IRON
140-8217	0.2365	0.3953	1.690	4-SR	IRON
140-8218	0.2170	0.3760	1.575	5-SR	IRON
140-8219	0.3145	0.4935	2.275	4-SR	IRON
140-8219+2	0.3145	0.4955	2.275	4-SR	IRON
140-8220	0.3750	0.6578	3.700	8-SR	IRON
140-8223	0.4190	0.6887	2.906	8-P	IRON
140-8233	0.2765	0.4350	1.890	4-SR	IRON
140-8233+2	0.2760	0.4370	1.890	4-SR	IRON
140-8247	0.3165	0.5533	2.265	7-SR	IRON
140-8248	0.3180	0.5533	2.195	7-SR	IRON
140-8255	0.2345	0.4355	1.775	5-SR	IRON
140-8256	0.3740	0.6205	2.755	21-SR	IRON
140-8273	0.2365	0.4353	1.890	4-SR	IRON
140-8274	0.2765	0.4953	1.930	1-SR	IRON
140-8274+2	0.2765	0.4973	1.930	1-SR	IRON
140-8274+3	0.2765	0.4983	1.930	1-SR	IRON
140-8274H	0.2765	0.4953	1.930	1-SR	IRON
140-8277	0.3162	0.4393	2.500	1-SR	IRON
140-8291	0.2350	0.4355	1.850	5-SR	IRON
140-8292	0.2755	0.4495	2.125	1-SR	IRON
140-8293	0.2755	0.4493	1.510	1-SR	IRON
140-8319	0.3741	0.6891	3.250	9-SR	IRON
140-8324	0.2163	0.4365	1.260	5-SR	IRON
140-8347	0.3140	0.5160	1.890	5-SR	IRON
140-8347+2	0.3140	0.5180	1.890	5-SR	IRON
140-8348	0.3145	0.5158	1.850	4-SR	IRON
140-8348+2	0.3145	0.5178	1.850	4-SR	IRON
140-8356	0.3735	0.5020	2.980	1-SR	IRON
140-8357	0.3735	0.5020	2.578	1-SR	IRON
140-8388	0.2760	0.4345	2.315	5-SR	IRON
140-8389	0.3160	0.4740	2.500	4-SR	IRON
140-8397	0.2173	0.4765	1.640	6-SR	IRON
140-8407	0.3730	0.6203	2.220	33-SR	IRON
140-8408	0.3750	0.6580	2.775	12-SR	IRON
140-8409	0.3730	0.6270	2.680	1-SR	IRON
140-8418	0.3125	0.4937	1.575	4-P	IRON
140-8419	0.3125	0.4934	1.693	4-SR	IRON
140-8420	0.3812	0.6268	2.500	4-SR	IRON
140-8476	0.3146	0.5651	2.440	1-P	IRON
140-8485	0.3750	0.6888	3.250	8-SR	IRON
140-8486	0.3750	0.6580	3.230	1-SR	IRON
140-8494	0.3135	0.5020	2.435	21-SR	IRON
140-8496	0.4164	0.8459	4.000	7-SR	IRON
140-8535	0.2757	0.5828	2.320	8-SR	IRON
140-8536	0.2757	0.5828	2.770	8-SR	IRON
140-8543	0.2365	0.3955	1.815	5-SR	IRON
140-8544	0.2365	0.3953	1.940	4-SR	IRON
140-8545	0.3440	0.4988	2.250	1-SR	IRON
140-8547	0.2750	0.4545	2.160	3-SR	IRON
140-8548	0.2750	0.4545	2.040	3-SR	IRON
140-8552	0.2745	0.4723	1.770	8-SR	IRON
140-8554	0.2355	0.4360	1.790	4-SR	IRON

Valve Guide Numerical Listing

Includes Conversion Guides

SBI Part #	I.D.	O.D.	Length	Type	Material
140-8555	0.2355	0.4360	1.835	1-SR	IRON
140-8555+2	0.2355	0.4380	1.835	1-SR	IRON
140-8556	0.2355	0.4360	1.735	1-SR	IRON
140-8556+2	0.2355	0.4378	1.735	1-SR	IRON
140-8558	0.2765	0.4763	1.435	29-SR	IRON
140-8559	0.2365	0.4360	1.575	4-SR	IRON
140-8560	0.2370	0.4953	1.880	1-SR	IRON
140-8561	0.2370	0.4358	1.490	5-SR	IRON
140-8562	0.3145	0.5640	2.440	1-SR	IRON
140-8564	0.2365	0.4365	1.280	4-SR	IRON
140-8565	0.2365	0.4365	1.595	4-SR	IRON
140-8567	0.2360	0.4360	1.750	4-SR	IRON
140-8569	0.2360	0.4360	1.990	4-SR	IRON
140-8571	0.2360	0.4360	1.990	4-SR	IRON
140-8572	0.2360	0.4360	1.690	5-SR	IRON
140-8573	0.2360	0.4358	1.540	5-SR	IRON
140-8574	0.2765	0.4955	2.200	1-SR	IRON
140-8575	0.2765	0.4955	2.050	1-SR	IRON
140-8577	0.2175	0.4763	1.875	6-SR	IRON
140-8578	0.2605	0.4763	1.775	5-SR	IRON
140-8579	0.2605	0.4755	1.970	6-SR	IRON
140-8580	0.2605	0.4765	1.535	6-SR	IRON
140-8581	0.2605	0.4765	1.695	6-SR	IRON
140-8582	0.2170	0.4765	1.715	6-SR	IRON
140-8583	0.2170	0.4763	2.045	6-SR	IRON
140-8584	0.2175	0.4073	1.360	5-SR	IRON
140-8585	0.2175	0.4075	1.590	5-SR	IRON
140-8586	0.2765	0.4548	1.660	5-SR	IRON
140-8587	0.2170	0.4355	1.750	5-SR	IRON
140-8590	0.3180	0.5133	2.955	13-SR	IRON
140-8591	0.3453	0.5635	4.006	4-SR	IRON
140-8591+10	0.3453	0.5735	4.006	4-SR	IRON
140-8591+5	0.3453	0.5685	4.006	4-SR	IRON
140-8592	0.3745	0.6305	2.785	12-SR	IRON
140-8592+2	0.3745	0.6325	2.785	12-SR	IRON
140-8593	0.2755	0.5118	1.640	1-SR	IRON
140-8593+2	0.2755	0.5138	1.640	1-SR	IRON
140-8594	0.3750	0.6578	2.640	2-SR	IRON
140-8658	0.3135	0.5020	2.860	21-SR	IRON
140-8659	0.3135	0.5020	3.081	21-SR	IRON
140-8662	0.2390	0.4727	1.420	1-SR	IRON
140-8663	0.2761	0.4724	1.740	2-SR	IRON
140-8666	0.2355	0.4333	1.700	2-SR	IRON
140-8668	0.2365	0.4333	1.500	2-SR	IRON
140-8670	0.2354	0.4350	1.654	5-SR	IRON
140-8671	0.2354	0.4350	1.654	5-SR	IRON
140-8673	0.3120	0.5020	2.390	1-SR	IRON
140-8674	0.3120	0.5020	2.209	1-SR	IRON
140-8679	0.3735	0.6885	4.060	8-SR	IRON
140-8679+5	0.3735	0.6935	4.060	8-SR	IRON
140-8715	0.3163	0.5512	1.949	1-P	IRON
140-9105	0.3440	0.5020	2.500	1-SR	IRON
140-9105U	0.3390	0.5020	2.500	1-SR	IRON
140-9106	0.3430	0.5020	2.750	1-SR	IRON
140-9107	0.3740	0.5020	2.250	1-SR	IRON
140-9108	0.3740	0.5020	2.375	1-SR	IRON
140-9108H	0.3740	0.5020	2.375	1-SR	IRON
140-9108U	0.3690	0.5020	2.375	1-SR	IRON
140-9109	0.3740	0.5020	2.500	1-SR	IRON
140-9110	0.3740	0.5020	2.625	1-SR	IRON

P=Plain I.D., SR=Spiral Reamed I.D.

Valve Guide Numerical Listing

Includes Conversion Guides

SBI Part #	I.D.	O.D.	Length	Type	Material
140-9111	0.3740	0.5020	2.875	1-SR	IRON
140-9111U	0.3690	0.5020	2.875	1-SR	IRON
140-9112	0.3745	0.5020	2.250	1-SR	IRON
140-9113	0.3745	0.5020	2.375	1-SR	IRON
140-9114	0.3750	0.5020	2.500	1-SR	IRON
140-9115	0.3750	0.5020	2.750	1-SR	IRON
140-9116	0.4375	0.6270	3.125	1-SR	IRON
140-9119	0.4375	0.6265	2.500	1-SR	IRON
140-9197	0.4375	0.6270	3.000	1-SR	IRON
140-9198	0.3174	0.5020	2.000	8-SR	IRON
140-9204	0.3150	0.4390	2.200	1-SR	IRON
140-9205	0.3120	0.5020	2.000	8-SR	IRON
140-9206	0.3440	0.5020	2.188	21-SR	IRON
140-9208	0.3740	0.6205	2.740	12-SR	IRON
140-9259	0.3430	0.5020	3.063	1-SR	IRON
140-9260	0.3731	0.5020	2.874	1-SR	IRON
140-9298	0.3729	0.5020	2.375	1-SR	IRON
140-9458	0.3740	0.5020	3.060	1-SR	IRON
140-9458H	0.3740	0.5020	3.063	1-SR	IRON
140-9459	0.3430	0.5020	2.375	1-SR	IRON
140-9460	0.3430	0.5020	2.500	1-SR	IRON
140-9460H	0.3430	0.5020	2.500	1-SR	IRON
140-9460H+2	0.3430	0.5040	2.500	1-SR	IRON
140-9523	0.3440	0.5020	3.063	1-SR	IRON
140-9523H	0.3440	0.5020	3.063	1-SR	IRON
140-9546	0.3115	0.4390	3.063	1-SR	IRON
140-9554	0.3730	0.5020	2.750	1-SR	IRON
140-9557	0.3180	0.5535	2.000	2-SR	IRON
140-9560	0.3440	0.5020	2.000	1-SR	IRON
140-9584	0.3155	0.5020	1.563	1-SR	IRON
140-9604	0.3440	0.5020	2.625	1-SR	IRON
140-9606	0.3440	0.5020	2.375	1-SR	IRON
140-9606U	0.3390	0.5020	2.375	1-SR	IRON
140-9607	0.3440	0.5020	2.250	1-SR	IRON
140-9607H	0.3440	0.5020	2.250	1-SR	IRON
140-9607U	0.3390	0.5020	2.250	1-SR	IRON
140-9609	0.4375	0.6270	2.625	1-SR	IRON
140-9610	0.3750	0.5020	2.625	1-SR	IRON
140-9611	0.2510	0.4390	2.313	1-SR	IRON
140-9612	0.3440	0.5020	2.875	1-SR	IRON
140-9690	0.3150	0.5020	2.375	1-SR	IRON
140-9705	0.3155	0.5020	2.000	1-SR	IRON
140-9705U	0.3105	0.5020	2.000	1-SR	IRON
140-9715	0.3430	0.5020	2.125	1-SR	IRON
140-9716	0.3730	0.5020	2.188	1-SR	IRON
140-9846	0.3440	0.5020	2.313	21-SR	IRON
140-9846U	0.3390	0.5020	2.313	21-SR	IRON
140-9848	0.3135	0.5020	2.438	1-SR	IRON
140-9850	0.3720	0.5020	2.625	1-SR	IRON
140-9867	0.3440	0.5020	2.125	1-SR	IRON
140-9867U	0.3390	0.5020	2.125	1-SR	IRON
140-9869	0.3125	0.4390	1.875	1-SR	IRON
140-9872	0.3120	0.4390	2.281	1-SR	IRON
140-9873	0.3450	0.5020	2.125	1-SR	IRON
140-9907	0.3420	0.5020	2.375	1-SR	IRON
140-9908	0.3425	0.5020	2.250	1-SR	IRON
140-9909	0.3420	0.5020	2.875	1-SR	IRON
140-9946	0.3430	0.5020	2.250	1-SR	IRON
140-9964	0.3730	0.5020	2.625	1-SR	IRON
140-9964H	0.3730	0.5020	2.625	1-SR	IRON

Valve Guide Numerical Listing

Includes Conversion Guides

SBI Part #	I.D.	O.D.	Length	Type	Material
140-9964H+2	0.3730	0.5040	2.625	1-SR	IRON
140-9972	0.3740	0.6203	2.630	12-SR	IRON
140-9972+3	0.3740	0.6233	2.630	12-SR	IRON
140-9972H	0.3740	0.6203	2.630	12-SR	IRON
140-9972U	0.3690	0.6205	2.630	12-SR	IRON
140-9973	0.3735	0.6255	2.420	8-SR	IRON
140-9973U	0.3685	0.6255	2.420	8-SR	IRON
140-9977	0.3120	0.5020	2.281	1-SR	IRON
140-9977H	0.3120	0.5020	2.281	1-SR	IRON
140-9977U	0.3070	0.5020	2.281	1-SR	IRON
149-1000	0.7850	1.2650	0.500	GUIDE SPACER	IRON
149-1001	N/A	N/A	N/A	GUIDE RETAINER	STEEL
340-1007BR	0.2161	0.4755	1.641	6-PB	BRONZE
340-1008BR	0.2165	0.4750	1.870	6-PB	BRONZE
340-1011BR	0.2165	0.4155	1.695	4-PB	BRONZE
340-1012BR	0.2362	0.4355	1.415	6-PB	BRONZE
340-1013BR	0.2598	0.4760	1.795	5-PB	BRONZE
340-1014BR	0.2598	0.4755	1.990	5-PB	BRONZE
340-1018BR	0.2756	0.4750	1.495	29-PB	BRONZE
340-1019BR	0.3110	0.4390	2.500	1-PB	BRONZE
340-1020BR	0.3440	0.5020	2.250	1-PB	BRONZE
340-1021BR	0.3431	0.5020	2.375	1-PB	BRONZE
340-1022BR	0.3431	0.5020	2.625	1-PB	BRONZE
340-1024BR	0.3721	0.5020	2.375	1-PB	BRONZE
340-1025BR	0.3724	0.5020	2.750	1-PB	BRONZE
340-1026BR	0.3431	0.5020	2.875	1-PB	BRONZE
340-1027BR	0.3734	0.5020	2.625	1-PB	BRONZE
340-1028BR	0.3734	0.5020	2.375	1-PB	BRONZE
340-1029BR	0.3430	0.5020	2.500	1-PB	BRONZE
340-1030BR	0.3120	0.4397	1.875	1-PB	BRONZE
340-1031BR	0.3741	0.5020	2.500	1-PB	BRONZE
340-1032BR	0.3421	0.5020	3.063	1-PB	BRONZE
340-1033BR	0.3421	0.5020	2.750	1-PB	BRONZE
340-1034BR	0.3432	0.5020	2.125	1-PB	BRONZE
340-1035BR	0.3705	0.5020	3.065	1-PB	BRONZE
340-1036BR	0.3735	0.6250	2.420	11-PB	BRONZE
340-1037BR	0.3735	0.6200	2.630	12-PB	BRONZE
340-1038BR	0.2744	0.5020	2.234	40-PB	BRONZE
340-1039BR	0.2744	0.5020	2.600	40-PB	BRONZE
340-1040BR	0.3092	0.5020	2.234	40-PB	BRONZE
340-1041BR	0.3091	0.5020	2.600	40-PB	BRONZE
340-1042BR	0.3413	0.5020	2.234	40-PB	BRONZE
340-1043BR	0.3413	0.5020	2.600	40-PB	BRONZE
340-1044BR	0.3430	0.5020	2.500	40-PB	BRONZE
340-1045BR	0.3430	0.5020	3.065	40-PB	BRONZE
340-1046BR	0.3150	0.5010	2.120	1-PB	BRONZE

Valve Guide Progressive Size Listing By I.D.

Includes Conversion Guides

I.D.	O.D.	Length	Type	SBI Part #	I.D.	O.D.	Length	Type	SBI Part #
0.1966	0.3745	1.420	1-P	140-3214H	0.2364	0.3952	1.820	21-P	140-3164
0.1966	0.3952	1.460	8-P	140-3179	0.2364	0.4720	1.778	8-P	140-3180
0.1966	0.3952	1.540	8-P	140-3213	0.2365	0.3945	1.378	2-P	140-3188
0.1970	0.3560	1.750	1-PB	140-3169BR	0.2365	0.3948	1.695	4-SR	140-8191
0.2161	0.4755	1.641	6-PB	340-1007BR	0.2365	0.3950	1.420	1-P	140-3029
0.2163	0.4365	1.260	5-SR	140-8324	0.2365	0.3950	1.580	5-SR	140-8190
0.2165	0.4155	1.695	4-PB	340-1011BR	0.2365	0.3953	1.690	4-SR	140-8217
0.2165	0.4170	1.580	5-P	140-3128	0.2365	0.3953	1.940	4-SR	140-8544
0.2165	0.4750	1.870	6-PB	340-1008BR	0.2365	0.3955	1.690	5-SR	140-8216
0.2167	0.3760	1.660	5-P	140-3129	0.2365	0.3955	1.815	5-SR	140-8543
0.2168	0.4348	1.655	1-P	140-3152	0.2365	0.3970	1.420	1-P	140-3029+2
0.2168	0.4358	1.740	1-P	140-3154	0.2365	0.4333	1.500	2-SR	140-8668
0.2170	0.3760	1.575	4-SR	140-8213	0.2365	0.4353	1.890	4-SR	140-8273
0.2170	0.3760	1.575	5-SR	140-8218	0.2365	0.4355	1.575	1-P	140-3046
0.2170	0.4345	1.535	1-P	140-3070	0.2365	0.4355	1.815	8-P	140-3182
0.2170	0.4355	1.750	5-SR	140-8587	0.2365	0.4358	1.655	1-SR	140-3112
0.2170	0.4365	1.690	5-SR	140-8144	0.2365	0.4360	1.575	4-SR	140-8559
0.2170	0.4763	2.045	6-SR	140-8583	0.2365	0.4363	2.065	5-SR	140-8203
0.2170	0.4765	1.715	6-SR	140-8582	0.2365	0.4365	1.280	4-SR	140-8564
0.2173	0.4358	1.875	6-SR	140-8158	0.2365	0.4365	1.595	4-SR	140-8565
0.2173	0.4358	2.130	6-SR	140-8157	0.2365	0.4367	1.380	5-P	140-3127
0.2173	0.4370	1.630	6-SR	140-3136	0.2365	0.4373	2.065	5-SR	140-8203+1
0.2173	0.4370	1.790	6-SR	140-3137	0.2365	0.4375	1.815	8-P	140-3182+2
0.2173	0.4765	1.640	6-SR	140-8397	0.2366	0.4493	1.510	1-SR	140-3020
0.2175	0.3774	1.455	1-SR	140-3028	0.2370	0.4350	1.455	5-SR	140-8208
0.2175	0.4073	1.360	5-SR	140-8584	0.2370	0.4358	1.490	5-SR	140-8561
0.2175	0.4073	1.630	5-P	140-3134	0.2370	0.4360	1.520	5-SR	140-8147
0.2175	0.4073	1.850	5-P	140-3135	0.2370	0.4360	1.775	4-SR	140-8173
0.2175	0.4075	1.590	5-SR	140-8585	0.2370	0.4953	1.880	1-SR	140-8560
0.2175	0.4075	1.715	5-P	140-3130	0.2371	0.4350	1.595	5-SR	140-8038
0.2175	0.4093	1.630	5-P	140-3134+2	0.2371	0.4355	1.600	4-SR	140-8195
0.2175	0.4093	1.850	5-P	140-3135+2	0.2371	0.4355	1.920	4-SR	140-8186
0.2175	0.4763	1.875	6-SR	140-8577	0.2371	0.4355	1.920	5-SR	140-8187
0.2177	0.4355	1.395	1-P	140-3170	0.2371	0.4360	1.725	1-P	140-3047
0.2340	0.4353	1.651	4-SR	140-8189	0.2371	0.4370	1.595	5-SR	140-8038+2
0.2345	0.4355	1.775	5-SR	140-8255	0.2372	0.4352	1.535	2-P	140-3162
0.2350	0.4333	1.500	1-P	140-3057	0.2373	0.4395	1.715	1-P	140-3166
0.2350	0.4333	1.700	1-P	140-3056	0.2390	0.4727	1.420	1-SR	140-8662
0.2350	0.4355	1.850	5-SR	140-8291	0.2510	0.4390	2.313	1-P	140-5611
0.2354	0.4350	1.654	5-SR	140-8670	0.2510	0.4390	2.313	1-SR	140-9611
0.2354	0.4350	1.654	5-SR	140-8671	0.2510	0.4998	2.360	11-SR	140-6254
0.2355	0.4333	1.700	2-SR	140-8666	0.2510	0.5018	2.360	11-SR	140-6254+2
0.2355	0.4360	1.735	1-SR	140-8556	0.2510	0.5028	2.360	11-SR	140-6254+3
0.2355	0.4360	1.790	4-SR	140-8554	0.2510	0.5048	2.360	11-SR	140-6254+5
0.2355	0.4360	1.835	1-SR	140-8555	0.2510	0.5098	2.360	11-SR	140-6254+10
0.2355	0.4378	1.735	1-SR	140-8556+2	0.2598	0.4755	1.990	5-PB	340-1014BR
0.2355	0.4380	1.835	1-SR	140-8555+2	0.2598	0.4760	1.795	5-PB	340-1013BR
0.2358	0.4355	1.615	1-P	140-3019	0.2600	0.4755	1.795	5-SR	140-8193
0.2360	0.4358	1.540	5-SR	140-8573	0.2600	0.4755	1.950	5-P	140-7589
0.2360	0.4360	1.556	5-SR	140-3118	0.2600	0.4755	1.990	5-SR	140-8194
0.2360	0.4360	1.690	5-SR	140-8572	0.2600	0.4775	1.795	5-SR	140-8193+2
0.2360	0.4360	1.750	4-SR	140-8567	0.2600	0.4775	1.990	5-SR	140-8194+2
0.2360	0.4360	1.872	5-SR	140-3119	0.2605	0.4755	1.970	5-SR	140-7830
0.2360	0.4360	1.990	4-SR	140-8569	0.2605	0.4755	1.970	6-SR	140-8579
0.2360	0.4360	1.990	4-SR	140-8571	0.2605	0.4763	1.775	5-SR	140-8578
0.2361	0.4355	1.655	1-P	140-3168	0.2605	0.4765	1.535	6-SR	140-8580
0.2362	0.3950	1.378	8-P	140-3011	0.2605	0.4765	1.695	6-SR	140-8581
0.2362	0.3950	1.773	8-P	140-3010	0.2605	0.4765	1.770	6-SR	140-8156
0.2362	0.4355	1.415	6-PB	140-3159BR	0.2605	0.4765	1.975	6-SR	140-8155
0.2362	0.4355	1.415	6-PB	340-1012BR	0.2610	0.4740	2.365	4-P	140-3208

Valve Guide Progressive Size Listing By I.D.

Includes Conversion Guides

I.D.	O.D.	Length	Type	SBI Part #	I.D.	O.D.	Length	Type	SBI Part #
0.2610	0.4755	2.165	4-SR	140-7659	0.2765	0.4983	1.930	1-SR	140-8274+3
0.2744	0.5020	2.234	40-PB	340-1038BR	0.2767	0.5140	1.740	2-SR	140-8124
0.2744	0.5020	2.600	40-PB	340-1039BR	0.2768	0.4390	2.200	1-SR	140-3066
0.2745	0.4723	1.770	8-SR	140-8552	0.2768	0.4747	2.500	21-SR	140-3048
0.2750	0.4545	2.040	3-SR	140-8548	0.2770	0.4390	1.660	1-SR	140-3000
0.2750	0.4545	2.160	3-SR	140-8547	0.2770	0.4390	1.990	1-SR	140-3001
0.2751	0.4934	2.275	4-SR	140-3023	0.2771	0.4342	1.790	5-SR	140-8039
0.2751	0.4954	2.275	4-SR	140-3023+2	0.2771	0.4362	1.790	5-SR	140-8039+2
0.2752	0.4720	1.702	1-P	140-3026	0.2775	0.4395	1.937	1-SR	140-3080
0.2752	0.4720	1.702	1-P	140-3026H	0.2775	0.4395	2.020	1-SR	140-3081
0.2752	0.4720	1.820	1-P	140-3149	0.2775	0.4725	2.345	4-SR	140-3196
0.2752	0.4740	1.702	1-P	140-3026+2	0.2775	0.4725	2.345	1-P	140-3197
0.2752	0.4740	1.702	1-P	140-3026H+2	0.2776	0.5015	1.937	21-SR	140-3021
0.2752	0.4740	1.790	2-P	140-3105	0.2776	0.5015	1.937	21-SR	140-3033
0.2755	0.4493	1.510	1-SR	140-8293	0.2776	0.5015	2.020	21-SR	140-3022
0.2755	0.4495	2.125	1-SR	140-8292	0.2777	0.5020	2.347	8-SR	140-3141
0.2755	0.4547	1.967	5-P	140-3049	0.2780	0.5015	2.020	21-SR	140-3034
0.2755	0.4547	1.967	1-P	140-3142	0.3054	0.5000	2.115	1-SR	140-3053U
0.2755	0.4745	1.990	3-SR	140-8205	0.3070	0.5020	2.281	1-SR	140-9977U
0.2755	0.4955	1.478	8-P	140-3098	0.3091	0.5020	2.600	40-PB	340-1041BR
0.2755	0.5118	1.640	1-SR	140-8593	0.3092	0.5020	2.234	40-PB	340-1040BR
0.2755	0.5130	2.380	8-P	140-3212	0.3105	0.5020	2.000	1-SR	140-9705U
0.2755	0.5138	1.640	1-SR	140-8593+2	0.3110	0.4390	2.500	1-PB	340-1019BR
0.2756	0.4750	1.495	29-PB	340-1018BR	0.3115	0.4390	3.063	1-P	140-7546
0.2756	0.5020	1.460	8-P	140-3202	0.3115	0.4390	3.063	1-SR	140-9546
0.2757	0.4550	1.690	5-SR	140-8020	0.3115	0.5018	2.500	8-P	140-1723
0.2757	0.4550	1.930	5-SR	140-8021	0.3120	0.4390	2.188	1-SR	140-6897H
0.2757	0.4758	1.895	5-SR	140-8016	0.3120	0.4390	2.281	1-P	140-6872
0.2757	0.5828	2.320	8-SR	140-8535	0.3120	0.4390	2.281	1-SR	140-9872
0.2757	0.5828	2.770	8-SR	140-8536	0.3120	0.4390	2.875	1-SR	140-6896H
0.2760	0.4341	1.575	28-P	140-3103	0.3120	0.4397	1.875	1-PB	340-1030BR
0.2760	0.4341	1.575	28-P	140-3104	0.3120	0.4856	2.094	8-P	140-1568
0.2760	0.4345	2.315	5-SR	140-8388	0.3120	0.5020	2.000	8-SR	140-9205
0.2760	0.4348	1.770	1-SR	140-7827	0.3120	0.5020	2.209	1-SR	140-8674
0.2760	0.4350	1.550	4-SR	140-8204	0.3120	0.5020	2.281	1-P	140-6977
0.2760	0.4350	1.770	5-SR	140-7826	0.3120	0.5020	2.281	1-SR	140-9977
0.2760	0.4350	2.070	5-SR	140-8211	0.3120	0.5020	2.281	1-SR	140-9977H
0.2760	0.4370	1.890	4-SR	140-8233+2	0.3120	0.5020	2.380	1-P	140-7679
0.2760	0.4370	2.070	5-SR	140-8211+2	0.3120	0.5020	2.390	1-SR	140-8673
0.2760	0.4423	2.315	8-SR	140-7873	0.3120	0.5325	2.094	11-P	140-1697
0.2760	0.4735	1.695	2-P	140-3187	0.3120	0.5645	2.063	2-P	140-4941
0.2760	0.4735	1.770	2-P	140-3186	0.3120	0.6263	1.340	8-P	140-7408
0.2760	0.4735	1.910	2-P	140-3185	0.3120	0.6265	1.500	8-P	140-1636
0.2760	0.4745	2.167	4-SR	140-7825	0.3120	0.6270	2.688	2-P	140-4944
0.2761	0.4724	1.740	2-SR	140-8663	0.3125	0.4390	1.875	1-P	140-6869
0.2763	0.5110	2.289	1-P	140-3009	0.3125	0.4390	1.875	1-SR	140-9869
0.2763	0.5130	2.289	1-P	140-3009+2	0.3125	0.4934	1.693	4-SR	140-8419
0.2764	0.4725	2.150	1-P	140-3163	0.3125	0.4937	1.575	4-P	140-8418
0.2765	0.4350	1.890	4-SR	140-8233	0.3125	0.5020	1.875	1-P	140-7663
0.2765	0.4395	2.331	21-P	140-3055	0.3125	0.5640	2.563	8-P	140-1703
0.2765	0.4548	1.660	5-SR	140-8586	0.3130	0.4998	2.380	11-SR	140-1946
0.2765	0.4755	2.168	6-P	140-7710	0.3130	0.5000	2.500	1-SR	140-1832
0.2765	0.4760	2.088	3-SR	140-8142	0.3130	0.5018	2.380	11-SR	140-1946+2
0.2765	0.4763	1.435	29-SR	140-8558	0.3130	0.5020	2.500	1-SR	140-1832+2
0.2765	0.4763	1.488	29-SR	140-8139	0.3130	0.5028	2.380	11-SR	140-1946+3
0.2765	0.4953	1.930	1-SR	140-8274	0.3130	0.5048	2.380	11-SR	140-1946+5
0.2765	0.4953	1.930	1-SR	140-8274H	0.3130	0.5098	2.380	11-SR	140-1946+10
0.2765	0.4955	2.050	1-SR	140-8575	0.3130	0.5640	2.250	8-P	140-1851
0.2765	0.4955	2.200	1-SR	140-8574	0.3130	0.5640	2.656	8-P	140-1852
0.2765	0.4973	1.930	1-SR	140-8274+2	0.3130	0.5645	2.750	11-P	140-1577

P=Plain I.D., SR=Spiral Reamed I.D.

Valve Guide Progressive Size Listing By I.D.

Includes Conversion Guides

I.D.	O.D.	Length	Type	SBI Part #	I.D.	O.D.	Length	Type	SBI Part #
0.3130	0.6578	2.125	8-P	140-1503	0.3152	0.5130	2.205	5-P	140-3102
0.3135	0.4385	2.064	1-P	140-1909	0.3152	0.6297	2.540	8-P	140-3074
0.3135	0.4385	2.500	1-P	140-1908	0.3153	0.4740	1.970	1-P	140-3093
0.3135	0.4390	1.813	1-SR	140-1907	0.3153	0.4820	2.090	8-P	140-3092
0.3135	0.4390	2.500	1-SR	140-6587	0.3153	0.4820	2.130	8-P	140-3091
0.3135	0.5016	2.500	1-P	140-1458	0.3153	0.5145	2.260	5-SR	140-8143
0.3135	0.5020	2.250	21-SR	140-7847	0.3154	0.5000	2.115	1-SR	140-3053
0.3135	0.5020	2.435	21-SR	140-8494	0.3154	0.5000	2.115	1-SR	140-3053H
0.3135	0.5020	2.438	1-SR	140-9848	0.3154	0.5020	2.115	1-SR	140-3053+2
0.3135	0.5020	2.860	21-SR	140-8658	0.3155	0.4743	2.045	8-SR	140-8209
0.3135	0.5020	3.081	21-SR	140-8659	0.3155	0.4745	1.930	2-SR	140-7542
0.3140	0.5160	1.890	5-SR	140-8347	0.3155	0.4745	2.205	4-SR	140-8212
0.3140	0.5180	1.890	5-SR	140-8347+2	0.3155	0.4745	2.313	5-SR	140-7499
0.3140	0.5655	2.585	1-P	140-3079	0.3155	0.4745	2.660	5-SR	140-7828
0.3140	0.5660	3.031	1-P	140-6881	0.3155	0.4765	1.435	6-SR	140-7359
0.3142	0.5145	2.210	1-P	140-3203	0.3155	0.5020	1.563	1-SR	140-9584
0.3142	0.5250	2.185	1-SR	140-3165	0.3155	0.5020	2.000	1-SR	140-9705
0.3142	0.5270	2.185	1-P	140-3165+2	0.3155	0.5130	1.970	5-P	140-3193
0.3145	0.4745	1.810	2-P	140-7713	0.3155	0.5130	2.200	5-P	140-3192
0.3145	0.4745	2.160	2-P	140-7714	0.3155	0.5250	2.185	1-SR	140-3032
0.3145	0.4750	1.990	2-SR	140-7395	0.3155	0.5270	2.185	1-SR	140-3032+2
0.3145	0.4765	2.160	2-P	140-7714+2	0.3155	0.5525	2.085	1-SR	140-3067
0.3145	0.4934	1.693	4-P	140-7451N	0.3155	0.5530	2.085	11-SR	140-8112
0.3145	0.4935	2.275	4-SR	140-8219	0.3155	0.5535	2.130	8-SR	140-7532
0.3145	0.4937	1.575	4-P	140-7429N	0.3155	0.5545	2.085	1-SR	140-3067+2
0.3145	0.4953	1.693	4-P	140-7451N+2	0.3155	0.5550	2.085	11-SR	140-8112+2
0.3145	0.4955	2.275	4-SR	140-8219+2	0.3155	0.5645	2.360	8-SR	140-7527
0.3145	0.4957	1.575	4-P	140-7429N+2	0.3155	0.5830	2.320	8-SR	140-8115
0.3145	0.5020	1.575	4-P	140-7661	0.3155	0.5830	2.770	8-SR	140-8114
0.3145	0.5020	1.693	4-P	140-7662	0.3157	0.4737	1.970	1-P	140-3097
0.3145	0.5158	1.850	4-SR	140-8348	0.3157	0.5905	3.285	8-P	140-3157
0.3145	0.5178	1.850	4-SR	140-8348+2	0.3158	0.5128	1.810	2-P	140-3191
0.3145	0.5250	2.185	1-SR	140-3031	0.3158	0.5128	1.930	2-P	140-3190
0.3145	0.5250	2.185	8-SR	140-3156	0.316	0.5145	2.913	5-SR	140-7523ALT
0.3145	0.5270	2.185	1-SR	140-3031+2	0.3160	0.4740	2.500	4-SR	140-8389
0.3145	0.5270	2.185	8-SR	140-3156+2	0.3160	0.4745	1.930	2-SR	140-7545
0.3145	0.5528	1.970	8-P	140-7656	0.3160	0.4820	2.500	7-SR	140-8017
0.3145	0.5640	2.440	1-SR	140-8562	0.3160	0.5140	1.820	4-SR	140-8207
0.3146	0.5651	2.440	1-P	140-8476	0.3160	0.5140	1.870	5-SR	140-8018
0.3148	0.5025	2.127	3-P	140-3099	0.3160	0.5143	2.045	4-SR	140-8202
0.3148	0.5025	2.227	3-P	140-3100	0.3160	0.5145	1.970	4-SR	140-8201
0.3150	0.4390	2.200	1-SR	140-9204	0.3160	0.5145	2.260	5-SR	140-7523
0.3150	0.4740	2.040	1-P	140-3181	0.3160	0.5160	1.820	4-SR	140-8207+2
0.3150	0.5000	2.235	1-SR	140-3204	0.3160	0.5165	2.260	5-SR	140-7523+2
0.3150	0.5010	2.120	1-PB	340-1046BR	0.3160	0.5525	2.322	8-SR	140-7529
0.3150	0.5020	2.250	1-P	140-8013	0.3160	0.5528	2.052	1-SR	140-8178
0.3150	0.5020	2.250	1-SR	140-8040	0.3160	0.5528	2.052	1-SR	140-8178SA
0.3150	0.5020	2.375	1-SR	140-9690	0.3160	0.5645	2.765	8-SR	140-7528
0.3150	0.5025	2.438	1-P	140-1956	0.3162	0.4393	2.500	1-SR	140-8277
0.3150	0.5143	1.848	5-SR	140-7574	0.3162	0.5335	2.465	1-SR	140-3131
0.3150	0.5143	1.890	5-SR	140-7577	0.3162	0.5528	2.382	1-SR	140-8177
0.3150	0.5145	1.735	5-SR	140-7576	0.3162	0.5528	2.382	1-SR	140-8177SA
0.3150	0.5145	2.046	5-SR	140-7575	0.3163	0.5512	1.949	1-P	140-8715
0.3150	0.5163	1.890	5-SR	140-7577+2	0.3163	0.5645	2.281	11-P	140-1619
0.3150	0.5165	1.848	5-SR	140-7574+2	0.3164	0.5643	1.658	8-P	140-1678
0.3150	0.5165	2.046	5-SR	140-7575+2	0.3165	0.5533	2.265	7-SR	140-8247
0.3150	0.5205	2.046	5-SR	140-7575+6	0.3165	0.5538	1.992	2-SR	140-8200
0.3150	0.5526	2.245	11-P	140-3101	0.3170	0.5643	1.813	1-SR	140-1717
0.3150	0.5527	2.362	8-P	140-3176	0.3174	0.5020	2.000	8-SR	140-9198
0.3150	0.5530	2.010	1-SR	140-8170	0.3175	0.5020	2.000	8-P	140-7198

Valve Guide Progressive Size Listing By I.D.

Includes Conversion Guides

I.D.	O.D.	Length	Type	SBI Part #	I.D.	O.D.	Length	Type	SBI Part #
0.3175	0.5339	2.540	8-P	140-3012	0.3430	0.5577	2.275	1-SR	140-8180
0.3175	0.5348	2.525	7-P	140-7822	0.3430	0.5597	2.275	1-SR	140-8180+2
0.3175	0.5368	2.525	7-P	140-7822+2	0.3430	0.5640	3.062	1-SR	140-7278
0.3175	0.5655	2.525	7-P	140-7823	0.3431	0.5020	2.375	1-PB	340-1021BR
0.3178	0.5130	2.407	12-SR	140-3194	0.3431	0.5020	2.625	1-PB	340-1022BR
0.3178	0.5130	3.175	12-SR	140-3038	0.3431	0.5020	2.875	1-PB	340-1026BR
0.3180	0.5133	2.955	13-SR	140-8590	0.3432	0.5020	2.125	1-PB	340-1034BR
0.3180	0.5133	3.155	7-SR	140-3123	0.3432	0.5655	2.188	1-P	140-1476
0.3180	0.5180	3.155	7-SR	140-3123+5	0.3432	0.6575	1.813	1-SR	140-1833
0.3180	0.5333	3.155	7-SR	140-3123+20	0.3433	0.6570	2.375	8-P	140-1962
0.3180	0.5531	2.177	3-SR	140-8172	0.3433	0.6575	2.719	9-P	140-1970
0.3180	0.5533	2.195	7-SR	140-8248	0.3434	0.6571	2.688	8-P	140-1673
0.3180	0.5535	2.000	2-SR	140-9557	0.3435	0.4695	2.125	21-SR	140-6053
0.3180	0.5551	2.177	3-SR	140-8172+2	0.3435	0.5645	3.000	3-P	140-1690
0.3180	0.5918	2.520	8-SR	140-8171	0.3435	0.5648	2.688	25-P	140-1543
0.3350	0.5530	1.970	1-SR	140-8169	0.3435	0.5648	3.344	8-P	140-1732
0.3390	0.5020	2.125	1-SR	140-9867U	0.3435	0.5650	2.188	1-P	140-1758
0.3390	0.5020	2.250	1-SR	140-9607U	0.3435	0.5650	2.438	1-P	140-1527
0.3390	0.5020	2.313	21-SR	140-9846U	0.3435	0.5655	3.219	8-P	140-1453
0.3390	0.5020	2.375	1-P	140-5606U	0.3435	0.5953	2.625	1-P	140-1544
0.3390	0.5020	2.375	1-SR	140-9606U	0.3435	0.5953	2.938	8-P	140-1545N
0.3390	0.5020	2.500	1-SR	140-9105U	0.3435	0.5960	2.610	10-P	140-1880
0.3390	0.5640	2.375	1-SR	140-7271U	0.3435	0.6268	2.563	1-P	140-7564
0.3413	0.5020	2.234	40-PB	340-1042BR	0.3435	0.6270	2.835	1-P	140-7563
0.3413	0.5020	2.600	40-PB	340-1043BR	0.3435	1.0303	2.210	36-P	140-1614
0.3420	0.5020	2.120	21-P	140-3015	0.3437	0.6277	2.375	8-P	140-1860
0.3420	0.5020	2.210	21-P	140-3016	0.3437	0.7515	2.470	3-P	140-1726
0.3420	0.5020	2.375	1-P	140-7907	0.3440	0.4988	2.250	1-SR	140-8545
0.3420	0.5020	2.375	1-SR	140-9907	0.3440	0.5020	2.000	1-SR	140-9560
0.3420	0.5020	2.875	1-SR	140-9909	0.3440	0.5020	2.125	1-P	140-6867
0.3420	0.5640	2.250	1-SR	140-7507	0.3440	0.5020	2.125	1-SR	140-9867
0.3420	0.5640	2.480	1-P	140-3088	0.3440	0.5020	2.188	21-SR	140-9206
0.3420	0.5640	2.640	1-P	140-3089	0.3440	0.5020	2.250	1-P	140-5607
0.3421	0.5020	2.750	1-PB	340-1033BR	0.3440	0.5020	2.250	1-SR	140-9607
0.3421	0.5020	3.063	1-PB	340-1032BR	0.3440	0.5020	2.250	1-SR	140-9607H
0.3425	0.5020	2.250	1-P	140-7908	0.3440	0.5020	2.250	1-PB	340-1020BR
0.3425	0.5020	2.250	1-SR	140-9908	0.3440	0.5020	2.313	21-SR	140-9846
0.3425	0.6573	2.313	11-P	140-1620	0.3440	0.5020	2.375	1-P	140-5606
0.3425	0.6575	2.813	11-P	140-1338	0.3440	0.5020	2.375	1-SR	140-9606
0.3427	0.6570	2.437	8-P	140-1872	0.3440	0.5020	2.500	1-P	140-6105
0.3427	0.6573	2.563	11-P	140-1515	0.3440	0.5020	2.500	1-SR	140-9105
0.3427	0.6575	2.844	14-P	140-1873	0.3440	0.5020	2.625	1-P	140-5604
0.3429	0.5633	2.810	1-SR	140-1823	0.3440	0.5020	2.625	1-SR	140-9604
0.3430	0.5020	2.125	1-P	140-7715	0.3440	0.5020	2.875	1-P	140-5612
0.3430	0.5020	2.125	1-SR	140-9715	0.3440	0.5020	2.875	1-SR	140-9612
0.3430	0.5020	2.250	1-P	140-7946	0.3440	0.5020	3.063	1-P	140-6523
0.3430	0.5020	2.250	1-SR	140-9946	0.3440	0.5020	3.063	1-SR	140-9523
0.3430	0.5020	2.375	1-P	140-7459	0.3440	0.5020	3.063	1-SR	140-9523H
0.3430	0.5020	2.375	1-SR	140-9459	0.3440	0.5040	2.250	1-P	140-5607+2
0.3430	0.5020	2.500	1-P	140-7460	0.3440	0.5040	2.625	1-P	140-5604+2
0.3430	0.5020	2.500	1-SR	140-9460	0.3440	0.5640	2.250	1-SR	140-7272
0.3430	0.5020	2.500	1-SR	140-9460H	0.3440	0.5640	2.375	1-SR	140-7271
0.3430	0.5020	2.500	1-PB	340-1029BR	0.3440	0.5640	2.625	1-SR	140-7588
0.3430	0.5020	2.500	40-PB	340-1044BR	0.3440	0.5640	2.875	1-SR	140-7552
0.3430	0.5020	2.750	1-P	140-6106	0.3440	0.5645	2.656	1-P	140-1804
0.3430	0.5020	2.750	1-SR	140-9106	0.3440	0.5650	1.870	3-SR	140-7495
0.3430	0.5020	3.063	1-P	140-7259	0.3440	0.5650	2.200	1-SR	140-7498
0.3430	0.5020	3.063	1-SR	140-9259	0.3440	0.5670	2.250	1-SR	140-7272+3
0.3430	0.5020	3.065	40-PB	340-1045BR	0.3440	0.6277	2.859	8-P	140-1896
0.3430	0.5040	2.500	1-SR	140-9460H+2	0.3440	0.6277	2.969	8-P	140-1899

P=Plain I.D., SR=Spiral Reamed I.D.

Valve Guide Progressive Size Listing By I.D.

Includes Conversion Guides

I.D.	O.D.	Length	Type	SBI Part #	I.D.	O.D.	Length	Type	SBI Part #
0.3440	0.6570	3.125	8-P	140-1874	0.3730	0.5020	2.625	1-SR	140-9964H
0.3440	0.6575	3.250	13-P	140-1875	0.3730	0.5020	2.750	1-P	140-7554
0.3440	0.6890	3.078	13-P	140-1411	0.3730	0.5020	2.750	1-SR	140-9554
0.3440	0.7513	2.938	3-P	140-1966	0.3730	0.5020	2.875	1-P	140-7260
0.3445	0.5636	2.266	8-SR	140-1745	0.3730	0.5040	2.625	1-SR	140-9964H+2
0.3445	0.5640	2.125	9-P	140-1944	0.3730	0.5640	2.375	1-SR	140-7291
0.3445	0.5640	2.250	9-P	140-1943	0.3730	0.5640	2.875	1-SR	140-7279
0.3445	0.5643	2.625	3-P	140-1689	0.3730	0.5640	3.313	1-SR	140-8128
0.3445	0.5665	2.250	2-SR	140-1854	0.3730	0.6203	2.220	33-SR	140-8407
0.3445	0.6260	2.310	8-P	140-1974	0.3730	0.6265	3.500	8-SR	140-5745
0.3445	0.6575	2.813	11-P	140-1337	0.3730	0.6270	2.680	1-SR	140-8409
0.3450	0.5020	2.125	1-P	140-6873	0.3730	0.6890	3.620	1-SR	140-3140
0.3450	0.5020	2.125	1-SR	140-9873	0.3730	0.6890	4.055	8-SR	140-3139
0.3450	0.5639	3.250	1-SR	140-1680	0.3730	0.6990	3.620	1-SR	140-3140+10
0.3450	0.5640	2.375	1-SR	140-7562	0.3730	0.6990	4.055	8-SR	140-3139+10
0.3450	0.5689	3.250	1-SR	140-1680+5	0.3730	0.7090	3.620	1-SR	140-3140+20
0.3450	0.6578	2.374	1-SR	140-1821	0.3730	0.7090	4.055	8-SR	140-3139+20
0.3453	0.5635	4.006	4-SR	140-8591	0.3731	0.5020	2.874	1-SR	140-9260
0.3453	0.5685	4.006	4-SR	140-8591+5	0.3733	0.6888	3.625	8-SR	140-3195
0.3453	0.5735	4.006	4-SR	140-8591+10	0.3734	0.5020	2.375	1-PB	340-1028BR
0.3540	0.6312	2.670	1-SR	140-3184	0.3734	0.5020	2.625	1-PB	340-1027BR
0.3542	0.6312	2.670	8-SR	140-3183	0.3735	0.5020	2.578	1-SR	140-8357
0.3544	0.5535	2.365	4-SR	140-3086	0.3735	0.5020	2.579	1-P	140-7681
0.3545	0.5325	1.990	2-P	140-3189	0.3735	0.5020	2.980	1-SR	140-8356
0.3547	0.5526	2.365	1-P	140-3054	0.3735	0.5020	3.969	1-SR	140-7669
0.3547	0.5527	2.018	2-P	140-3060	0.3735	0.5021	2.980	1-P	140-7682
0.3547	0.5920	2.402	8-P	140-3175	0.3735	0.6200	2.630	12-PB	340-1037BR
0.3547	0.5920	2.620	1-P	140-3177	0.3735	0.6203	2.620	9-SR	140-3024
0.3548	0.5525	2.365	2-SR	140-8023	0.3735	0.6250	2.420	11-PB	340-1036BR
0.3550	0.5920	1.930	8-P	140-3077	0.3735	0.6255	2.420	8-P	140-1973
0.3550	0.5920	2.835	5-P	140-3071	0.3735	0.6255	2.420	8-SR	140-9973
0.3555	0.5135	2.018	2-P	140-3059	0.3735	0.6265	2.250	9-SR	140-3025
0.3555	0.5535	2.365	1-SR	140-8161	0.3735	0.6885	4.060	8-SR	140-8679
0.3555	0.5540	2.200	1-SR	140-8168	0.3735	0.6890	3.615	1-SR	140-3144
0.3570	0.5905	3.355	1-SR	140-3050	0.3735	0.6890	4.060	1-SR	140-3143
0.3570	0.5925	3.355	1-SR	140-3050+2	0.3735	0.6935	4.060	8-SR	140-8679+5
0.3685	0.6255	2.420	8-SR	140-9973U	0.3739	0.6263	2.880	9-SR	140-6730
0.3690	0.5020	2.375	1-P	140-6108U	0.3739	0.6283	2.880	13-SR	140-6730+2
0.3690	0.5020	2.375	1-SR	140-9108U	0.3740	0.5020	2.250	1-P	140-6107
0.3690	0.5020	2.875	1-SR	140-9111U	0.3740	0.5020	2.250	1-SR	140-9107
0.3690	0.6205	2.630	12-SR	140-9972U	0.3740	0.5020	2.375	1-P	140-6108
0.3705	0.5020	3.065	1-PB	340-1035BR	0.3740	0.5020	2.375	1-SR	140-9108
0.3715	0.6883	4.050	8-SR	140-3035	0.3740	0.5020	2.375	1-SR	140-9108H
0.3715	0.6883	4.050	8-SR	140-3036	0.3740	0.5020	2.500	1-P	140-6109
0.3715	0.6933	4.050	8-SR	140-3036+5	0.3740	0.5020	2.500	1-SR	140-9109
0.3715	0.6983	4.050	8-SR	140-3035+10	0.3740	0.5020	2.625	1-P	140-6110
0.3715	0.6985	4.050	8-SR	140-3036+10	0.3740	0.5020	2.625	1-SR	140-9110
0.3715	0.7083	4.050	8-SR	140-3035+20	0.3740	0.5020	2.875	1-P	140-6111
0.3715	0.7085	4.050	8-SR	140-3036+20	0.3740	0.5020	2.875	1-SR	140-9111
0.3720	0.5020	2.625	1-P	140-6850	0.3740	0.5020	3.060	1-P	140-7458
0.3720	0.5020	2.625	1-SR	140-9850	0.3740	0.5020	3.060	1-SR	140-9458
0.3721	0.5020	2.375	1-PB	340-1024BR	0.3740	0.5020	3.063	1-SR	140-9458H
0.3724	0.5020	2.750	1-PB	340-1025BR	0.3740	0.5640	2.375	1-SR	140-7276
0.3725	0.8780	5.450	8-SR	140-7550	0.3740	0.5640	2.500	1-SR	140-7277
0.3725	0.9390	5.250	8-SR	140-7604	0.3740	0.5920	3.860	8-P	140-3178
0.3729	0.5020	2.375	1-SR	140-9298	0.3740	0.6006	2.250	4-P	140-1919
0.3730	0.5020	2.188	1-SR	140-9716	0.3740	0.6203	2.630	12-P	140-1972
0.3730	0.5020	2.375	1-P	140-7298	0.3740	0.6203	2.630	12-SR	140-9972
0.3730	0.5020	2.625	1-P	140-7964	0.3740	0.6203	2.630	12-SR	140-9972H
0.3730	0.5020	2.625	1-SR	140-9964	0.3740	0.6205	2.200	15-SR	140-7999

Valve Guide Progressive Size Listing By I.D.

Includes Conversion Guides

I.D.	O.D.	Length	Type	SBI Part #	I.D.	O.D.	Length	Type	SBI Part #
0.3740	0.6205	2.435	18-SR	140-8113	0.3745	0.6888	3.750	1-P	140-1579
0.3740	0.6205	2.740	12-P	140-7208	0.3745	0.6893	2.750	1-P	140-1546
0.3740	0.6205	2.740	12-SR	140-9208	0.3745	0.6893	2.813	1-P	140-1740
0.3740	0.6205	2.755	21-SR	140-8256	0.3745	0.6895	2.938	13-P	140-1803
0.3740	0.6233	2.630	12-SR	140-9972+3	0.3745	0.6895	3.219	8-P	140-1547N
0.3740	0.6263	2.880	13-SR	140-7813	0.3745	0.7520	3.625	3-P	140-6529
0.3740	0.6264	2.281	8-P	140-3063	0.3745	0.8775	5.450	8-SR	140-7073
0.3740	0.6264	2.407	8-P	140-3064	0.3745	0.8780	5.065	8-SR	140-7074H
0.3740	0.6268	2.600	1-P	140-7712	0.3745	0.8780	5.450	8-SR	140-7073H
0.3740	0.6288	2.600	1-P	140-7712+2	0.3750	0.5020	2.500	1-P	140-6114
0.3740	0.6890	3.050	7-SR	140-3014	0.3750	0.5020	2.500	1-SR	140-9114
0.3740	0.6890	3.075	8-P	140-3174	0.3750	0.5020	2.625	1-P	140-5610
0.3740	0.6890	3.250	1-SR	140-3145	0.3750	0.5020	2.625	1-SR	140-9610
0.3740	0.6890	3.250	8-SR	140-7736	0.3750	0.5020	2.750	1-P	140-6115
0.3740	0.6890	3.250	8-SR	140-7736SA	0.3750	0.5020	2.750	1-SR	140-9115
0.3740	0.6890	3.255	8-SR	140-3138	0.3750	0.5640	2.750	1-SR	140-7248
0.3740	0.6890	3.730	8-SR	140-3051	0.3750	0.6255	3.313	11-P	140-1898
0.3740	0.6890	4.130	8-SR	140-3052	0.3750	0.6265	2.650	26-P	140-7450
0.3740	0.6910	3.250	1-SR	140-3145+2	0.3750	0.6268	2.734	8-P	140-7376
0.3740	0.6940	3.250	1-SR	140-3145+5	0.3750	0.6270	2.563	11-P	140-1937
0.3741	0.5020	2.500	1-PB	340-1031BR	0.3750	0.6275	3.313	11-P	140-1898+2
0.3741	0.6891	3.250	9-SR	140-8319	0.3750	0.6275	3.969	1-SR	140-6905
0.3743	0.6580	2.780	7-SR	140-3037	0.3750	0.6573	2.750	3-P	140-1470
0.3743	0.6600	2.780	7-SR	140-3037+2	0.3750	0.6578	2.640	2-SR	140-8594
0.3745	0.5020	2.250	1-SR	140-9112	0.3750	0.6578	2.781	1-SR	140-7194
0.3745	0.5020	2.375	1-P	140-6113	0.3750	0.6578	2.781	1-SR	140-7194SA
0.3745	0.5020	2.375	1-SR	140-9113	0.3750	0.6578	3.700	8-SR	140-8220
0.3745	0.5640	2.625	1-SR	140-7447	0.3750	0.6580	2.375	8-P	140-1704
0.3745	0.5640	3.000	1-SR	140-7448	0.3750	0.6580	2.750	13-P	140-1504
0.3745	0.6250	2.600	1-P	140-7689	0.3750	0.6580	2.775	12-SR	140-8408
0.3745	0.6252	2.600	3-P	140-7174	0.3750	0.6580	3.063	11-P	140-1342
0.3745	0.6255	2.938	11-P	140-1897	0.3750	0.6580	3.230	1-SR	140-8486
0.3745	0.6257	2.625	4-SR	140-1927	0.3750	0.6585	3.180	13-SR	140-7242
0.3745	0.6258	2.938	1-SR	140-1923	0.3750	0.6598	2.781	1-SR	140-7194+2
0.3745	0.6258	3.188	1-SR	140-1954	0.3750	0.6628	2.781	1-SR	140-7194+5
0.3745	0.6260	2.250	1-SR	140-1924	0.3750	0.6635	3.180	13-SR	140-7242+5
0.3745	0.6260	2.313	1-SR	140-1953	0.3750	0.6884	3.110	6-SR	140-3043
0.3745	0.6260	2.406	8-SR	140-1952	0.3750	0.6884	3.155	6-SR	140-8010
0.3745	0.6260	2.406	1-SR	140-7398	0.3750	0.6888	3.250	8-SR	140-8485
0.3745	0.6260	3.500	3-SR	140-1965	0.3750	0.6890	2.344	2-P	140-1853
0.3745	0.6263	2.610	3-SR	140-8188	0.3750	0.6890	3.250	2-SR	140-7216
0.3745	0.6263	2.610	3-SR	140-8188SA	0.3750	0.6890	3.250	2-SR	140-7216SA
0.3745	0.6263	2.750	3-SR	140-7431	0.3750	0.6892	2.815	13-SR	140-7255
0.3745	0.6263	2.750	3-SR	140-7431SA	0.3750	0.6895	2.750	8-P	140-1421
0.3745	0.6265	2.395	3-P	140-3006	0.3750	0.6898	2.797	9-P	140-1859
0.3745	0.6265	2.500	1-SR	140-1947	0.3750	0.6898	3.344	8-P	140-1858
0.3745	0.6265	2.750	10-P	140-1733	0.3750	0.6910	3.250	2-SR	140-7216+2
0.3745	0.6265	2.844	1-P	140-1881	0.3750	0.6910	3.250	2-SR	140-7216SA+2
0.3745	0.6285	2.844	1-P	140-1881+2	0.3750	0.6912	2.815	13-SR	140-7255+2
0.3745	0.6298	3.155	7-SR	140-3058	0.3750	0.6940	3.250	2-SR	140-7216+5
0.3745	0.6298	3.358	7-SR	140-3007	0.3750	0.7833	3.189	1-SR	140-3027
0.3745	0.6300	3.350	12-SR	140-3039	0.3753	0.6890	2.960	8-SR	140-7336
0.3745	0.6305	2.785	12-SR	140-8592	0.3755	0.6265	2.281	8-P	140-1976
0.3745	0.6318	3.155	7-SR	140-3058+2	0.3755	0.6265	2.406	8-P	140-1977
0.3745	0.6318	3.358	7-SR	140-3007+2	0.3755	0.7100	3.150	11-SR	140-6546
0.3745	0.6325	2.785	12-SR	140-8592+2	0.3755	0.7100	3.150	8-SR	140-8133
0.3745	0.6348	3.155	7-SR	140-3058+5	0.3760	0.6268	2.420	8-P	140-1747
0.3745	0.6348	3.358	7-SR	140-3007+5	0.3760	0.6270	2.240	8-P	140-6990
0.3745	0.6573	2.375	8-P	140-1618	0.3761	0.6297	2.835	1-P	140-3068
0.3745	0.6888	2.906	8-P	140-7876	0.3761	0.6297	2.835	1-P	140-3068SA

P=Plain I.D., SR=Spiral Reamed I.D.

Valve Guide Progressive Size Listing By I.D.

Includes Conversion Guides

I.D.	O.D.	Length	Type	SBI Part #	I.D.	O.D.	Length	Type	SBI Part #
0.3761	0.6297	2.835	4-SR	140-8122	0.4385	0.6887	3.090	1-P	140-1839
0.3761	0.6297	2.835	4-SR	140-8122SA	0.4385	0.6888	3.060	1-P	140-7457
0.3771	0.6577	3.220	16-P	140-1906N	0.4390	0.8780	3.875	8-P	140-1600
0.3812	0.6268	2.500	4-SR	140-8420	0.4405	0.8133	4.250	24-P	140-1711
0.3819	0.6504	2.633	8-SR	140-8210	0.4405	0.8140	4.250	23-P	140-1888
0.3819	0.6504	2.633	8-SR	140-8210SA	0.4525	0.7518	3.010	7-SR	140-1941
0.3819	0.6504	2.934	10-SR	140-7625	0.4525	0.7518	3.010	7-SR	140-1941SA
0.3819	0.6504	2.934	10-SR	140-7625SA	0.4528	0.7518	3.167	8-SR	140-3158
0.3819	0.6506	3.374	8-SR	140-3008	0.4528	0.7518	3.167	8-SR	140-3158SA
0.3819	0.6506	4.105	8-SR	140-3061	0.4528	0.7520	3.195	7-SR	140-6452
0.3819	0.6524	2.633	8-SR	140-8210+2	0.4530	0.7518	3.400	3-SR	140-7994
0.3819	0.6525	4.105	8-SR	140-3061+2	0.4530	0.7518	3.400	3-SR	140-7994SA
0.3819	0.6526	3.374	8-SR	140-3008+2	0.4530	0.7538	3.400	3-SR	140-7994+2
0.3819	0.7518	3.400	8-SR	140-8134	0.4530	0.7620	3.400	4-SR	140-7264
0.3819	0.7518	3.400	8-SR	140-8134SA	0.4538	0.7518	3.393	1-SR	140-7990
0.3819	0.7618	3.400	8-SR	140-8134+10	0.4940	0.6884	3.500	9-P	140-7592
0.3920	0.6313	2.850	8-P	140-3211	0.4977	0.6886	4.055	1-SR	140-3042
0.3932	0.6297	3.285	8-P	140-3207	0.4977	0.6936	4.055	1-SR	140-3042+5
0.3935	0.6315	2.360	8-SR	140-8024	0.4977	0.8458	3.585	3-SR	140-7610
0.3937	0.6328	3.040	12-P	140-7548	0.4977	0.8459	3.580	7-SR	140-7373
0.3940	0.5920	2.640	5-P	140-3072	0.4990	0.8135	3.500	26-SR	140-7372
0.3944	0.6305	3.820	8-P	140-3209	0.4995	0.8765	5.438	26-P	140-1593
0.3944	0.6305	3.820	8-P	140-3210	0.5000	0.6886	3.500	9-P	140-1809
0.3973	0.6580	2.375	1-SR	140-1878	0.5000	0.6886	3.500	9-SR	140-7903
0.4050	0.7513	3.219	11-P	140-7444	0.5005	0.8765	4.325	8-SR	140-7476
0.4050	0.7518	3.594	11-P	140-1830	0.5005	0.9383	5.250	25-P	140-6470
0.4050	0.7520	3.219	8-P	140-1865	0.5010	0.8785	4.750	11-P	140-1644
0.4050	0.7520	3.438	10-SR	140-1969	0.5010	0.9385	5.219	8-P	140-7338
0.4050	0.7520	3.970	1-P	140-1578	0.5010	0.9405	5.219	8-P	140-7338+2
0.4050	0.7520	4.375	11-P	140-1829	0.5015	0.6886	3.500	9-P	140-1810
0.4164	0.8459	4.000	7-SR	140-8496	0.5015	0.7525	3.875	9-P	140-1857
0.4180	0.6890	2.906	8-P	140-7860	0.5020	0.8768	5.045	8-P	140-7083
0.4190	0.6887	2.906	8-P	140-8223	0.5020	0.8771	5.438	8-P	140-7357
0.4190	0.6890	2.906	8-P	140-1968	0.5020	0.9383	5.250	25-P	140-6469
0.4313	0.6884	3.146	8-P	140-8007	0.5550	1.0020	5.188	34-SR	140-7892
0.4335	0.7100	3.350	1-SR	140-8160	0.5550	1.0020	5.188	14-SR	140-8011
0.4348	0.7084	3.220	10-P	140-3075	0.5620	1.0025	4.820	14-SR	140-3133
0.4349	0.7084	2.593	3-P	140-3076	0.5620	1.0025	5.520	14-SR	140-3132
0.4365	0.7510	3.000	26-SR	140-7371	0.5625	0.8760	3.000	9-P	140-5379
0.4370	0.6890	3.090	1-SR	140-7337	0.5640	1.0030	5.375	11-P	140-1932
0.4370	0.7510	3.875	24-P	140-7420	0.6245	1.0020	5.188	1-SR	140-6201
0.4370	0.7510	4.375	26-P	140-7421	0.6245	1.0020	6.000	1-SR	140-6202
0.4370	0.7515	3.125	24-P	140-1914	0.7850	1.2650	0.500	GUIDE SPACER	149-1000
0.4375	0.6265	2.500	1-SR	140-9119	0.8745	1.3763	6.125	26-SR	140-6479
0.4375	0.6267	2.500	1-P	140-6119	0.8745	1.3778	6.125	26-SR	140-6929
0.4375	0.6270	2.625	1-SR	140-9609	N/A	N/A	N/A	GUIDE RETAINER	149-1001
0.4375	0.6270	3.000	1-P	140-7197					
0.4375	0.6270	3.000	1-SR	140-9197					
0.4375	0.6270	3.125	1-P	140-6116					
0.4375	0.6270	3.125	1-SR	140-9116					
0.4375	0.6285	2.500	1-P	140-6119+2					
0.4375	0.6884	3.146	8-SR	140-8008					
0.4375	0.6886	3.406	8-SR	140-8105					
0.4375	0.6888	3.438	1-SR	140-6913					
0.4375	0.6890	3.172	8-SR	140-1957					
0.4375	0.7835	3.188	8-SR	140-8004					
0.4380	0.8138	3.125	13-P	140-1813					
0.4380	0.8140	3.438	12-P	140-1814					
0.4385	0.6265	3.063	8-P	140-1817					
0.4385	0.6887	3.060	8-SR	140-7456					

Bronze Bullet® Guide Liners Numerical Listing

SBI Part #	Nominal Size	Min. Fin. I.D.	Min. Fin. I.D. (mm)	Length	Length (mm)	SBI Part #	Nominal Size	Min. Fin. I.D.	Min. Fin. I.D. (mm)	Length	Length (mm)
KL1858STA	5.0mm	0.197	5.00	1.625	41.275						
KL1857STA	5.5mm	0.216	5.49	2.250	57.150						
KL1900STA	5.5mm	0.217	5.51	2.250	57.150						
KL1999STA	6.0mm	0.234	5.94	1.880	47.625						
KL1856STA	6.0mm	0.236	5.99	2.250	57.150						
KL1906STA	6.0mm	0.238	6.05	2.250	50.800						
KL1849STA	6.6mm	0.260	6.60	2.500	63.500						
KL1904STA	7.0mm	0.273	6.93	2.500	63.500						
KL19100STA	7.0mm	0.275	6.99	3.000	76.200						
KL19107STA	7.0mm	0.276	7.01	2.750	69.850						
KL1850STA	7.0mm	0.277	7.04	2.500	63.500						
KL1850A	7.0mm	0.277	7.04	2.500	63.500						
KL1903STA	7.0mm	0.278	7.06	1.811	45.999						
KL1909STA	7.0mm	0.279	7.09	2.250	57.150						
KL1927STA	5/16	0.310	7.87	3.125	79.375						
KL1944STA	8.0mm	0.312	7.92	2.500	63.500						
KL1840STA	5/16	0.312	7.92	3.125	79.375						
KL1840A	5/16	0.312	7.92	3.125	79.375						
KL1933STA	8.0mm	0.313	7.95	2.500	63.500						
KL1937STA	8.0mm	0.313	7.95	3.000	76.200						
KL1997STA	8.0mm	0.314	7.98	2.500	63.500						
KL1939STA	8.0mm	0.315	8.00	2.500	63.500						
KL1968STA	8.0mm	0.315	8.00	3.000	76.200						
KL1851STA	8.0mm	0.316	8.03	2.500	63.500						
KL1940STA	8.0mm	0.317	8.05	2.500	63.500						
KL19101STA	8.0mm	0.317	8.05	3.125	79.375						
KL1942STA	8.0mm	0.318	8.08	2.500	63.500						
KL1967STA	8.0mm	0.318	8.08	2.750	69.850						
KL1961STA	11/32	0.339	8.61	2.500	63.500						
KL1983STA	11/32	0.341	8.66	2.500	63.500						
KL1932STA	11/32	0.342	8.69	2.500	60.960						
KL1841A	11/32	0.343	8.71	3.125	79.375						
KL1841STA	11/32	0.343	8.71	3.125	79.375						
KL1860A	11/32	0.343	8.71	3.130	79.500						
KL1845A	11/32	0.343	8.71	3.250	82.600						
KL1921STA	11/32	0.344	8.74	2.500	63.500						
KL19103STA	9.0mm	0.346	8.79	2.500	63.500						
KL1925STA	9.0mm	0.354	8.99	3.125	79.375						
KL1902STA	3/8	0.370	9.40	3.125	79.375						
KL1992STA	3/8	0.373	9.47	3.125	79.375						
KL1974STA	3/8	0.374	9.50	2.500	63.500						
KL1842STA	3/8	0.374	9.50	3.125	79.375						
KL1842A	3/8	0.374	9.50	3.125	79.375						
KL1861A	3/8	0.374	9.53	3.130	79.500						
KL1975STA	3/8	0.375	9.53	2.500	63.500						
KL1920STA	10.0mm	0.393	9.98	3.125	79.375						
KL1988STA	7/16	0.432	10.97	2.500	63.500						
KL1905STA	11.0mm	0.433	11.00	3.250	82.550						

Suffix "A" = Smooth Wall

Suffix "CA" = Dry Film Lubricant (DFL)

Suffix "STA" = Interrupted Spiral

Bronze Bullet® Guide Liners

Progressive Size Listing By I.D.

SBI Part #	Nominal Size	Min. Fin. I.D.	Min. Fin. I.D. (mm)	Length	Length (mm)	Bored Hole Max. I.D.	Bored Hole Max. I.D. (mm)	Bored Hole Tolerances	Bored Hole Tolerances (mm)
KL1858STA	5.0mm	0.197	5.00	1.625	41.275	0.2125	5.39	0.2120 - 0.2125	5.38 - 5.397
KL1857STA	5.5mm	0.216	5.49	2.250	57.150	0.2485	6.31	0.2470 - 0.2485	6.27 - 6.312
KL1900STA	5.5mm	0.217	5.51	2.250	57.150	0.2485	6.31	0.2470 - 0.2485	6.27 - 6.312
KL1999STA	6.0mm	0.234	5.94	1.880	47.625	0.2675	6.79	0.2660 - 0.2675	6.76 - 6.795
KL1856STA	6.0mm	0.236	5.99	2.250	57.150	0.2675	6.79	0.2660 - 0.2675	6.76 - 6.795
KL1906STA	6.0mm	0.238	6.05	2.250	50.800	0.2675	6.79	0.2660 - 0.2675	6.76 - 6.795
KL1849STA	6.6mm	0.260	6.60	2.500	63.500	0.2915	7.40	0.2900 - 0.2915	7.37 - 7.404
KL1904STA	7.0mm	0.273	6.93	2.500	63.500	0.3095	7.86	0.3080 - 0.3095	7.82 - 7.861
KL19100STA	7.0mm	0.275	6.99	3.000	76.200	0.3095	7.86	0.3080 - 0.3095	7.82 - 7.861
KL19107STA	7.0mm	0.276	7.01	2.750	69.850	0.3095	7.86	0.3080 - 0.3095	7.82 - 7.861
KL1850A	7.0mm	0.277	7.04	2.500	63.500	0.3095	7.86	0.3080 - 0.3095	7.82 - 7.861
KL1850STA	7.0mm	0.277	7.04	2.500	63.500	0.3095	7.86	0.3080 - 0.3095	7.82 - 7.861
KL1903STA	7.0mm	0.278	7.06	1.811	45.999	0.3095	7.86	0.3080 - 0.3095	7.82 - 7.861
KL1909STA	7.0mm	0.279	7.09	2.250	57.150	0.3095	7.86	0.3080 - 0.3095	7.82 - 7.861
KL1927STA	5/16	0.310	7.87	3.125	79.375	0.3425	8.70	0.3410 - 0.3425	8.66 - 8.700
KL1944STA	8.0mm	0.312	7.92	2.500	63.500	0.3475	8.83	0.3460 - 0.3475	8.79 - 8.827
KL1840A	5/16	0.312	7.92	3.125	79.375	0.3425	8.70	0.3410 - 0.3425	8.66 - 8.700
KL1840STA	5/16	0.312	7.92	3.125	79.375	0.3425	8.70	0.3410 - 0.3425	8.66 - 8.700
KL1933STA	8.0mm	0.313	7.95	2.500	63.500	0.3475	8.83	0.3460 - 0.3475	8.79 - 8.827
KL1937STA	8.0mm	0.313	7.95	3.000	76.200	0.3475	8.83	0.3460 - 0.3475	8.79 - 8.827
KL1997STA	8.0mm	0.314	7.98	2.500	63.500	0.3475	8.83	0.3460 - 0.3475	8.79 - 8.827
KL1939STA	8.0mm	0.315	8.00	2.500	63.500	0.3475	8.83	0.3460 - 0.3475	8.79 - 8.827
KL1968STA	8.0mm	0.315	8.00	3.000	76.200	0.3475	8.83	0.3460 - 0.3475	8.79 - 8.827
KL1851STA	8.0mm	0.316	8.03	2.500	63.500	0.3475	8.83	0.3460 - 0.3475	8.79 - 8.827
KL1940STA	8.0mm	0.317	8.05	2.500	63.500	0.3475	8.83	0.3460 - 0.3475	8.79 - 8.827
KL19101STA	8.0mm	0.317	8.05	3.125	79.375	0.3475	8.83	0.3460 - 0.3475	8.79 - 8.827
KL1942STA	8.0mm	0.318	8.08	2.500	63.500	0.3475	8.83	0.3460 - 0.3475	8.79 - 8.827
KL1967STA	8.0mm	0.318	8.08	2.750	69.850	0.3475	8.83	0.3460 - 0.3475	8.79 - 8.827
KL1961STA	11/32	0.339	8.61	2.500	63.500	0.3735	9.49	0.3720 - 0.3735	9.45 - 9.487
KL1983STA	11/32	0.341	8.66	2.500	63.500	0.3735	9.49	0.3720 - 0.3735	9.45 - 9.487
KL1932STA	11/32	0.342	8.69	2.500	60.960	0.3735	9.49	0.3720 - 0.3735	9.45 - 9.487
KL1841A	11/32	0.343	8.71	3.125	79.375	0.3735	9.49	0.3720 - 0.3735	9.45 - 9.487
KL1841STA	11/32	0.343	8.71	3.125	79.375	0.3735	9.49	0.3720 - 0.3735	9.45 - 9.487
KL1860A	11/32	0.343	8.71	3.130	79.500	0.3750	9.53		
KL1845A	11/32	0.343	8.71	3.250	82.600	0.4055	10.30		
KL1921STA	11/32	0.344	8.74	2.500	63.500	0.3735	9.49	0.3720 - 0.3735	9.45 - 9.487
KL19103STA	9.0mm	0.346	8.79	2.500	63.500	0.3865	9.82	0.3850 - 0.3865	9.78 - 9.817
KL1925STA	9.0mm	0.354	8.99	3.125	79.375	0.3865	9.82	0.3850 - 0.3865	9.78 - 9.817
KL1902STA	3/8	0.370	9.40	3.125	79.375	0.4055	10.30	0.4040 - 0.4055	10.26 - 10.30
KL1992STA	3/8	0.373	9.47	3.125	79.375	0.4055	10.30	0.4040 - 0.4055	10.26 - 10.30
KL1974STA	3/8	0.374	9.50	2.500	63.500	0.4055	10.30	0.4040 - 0.4055	10.26 - 10.30
KL1842A	3/8	0.374	9.50	3.125	79.375	0.4055	10.30	0.4040 - 0.4055	10.26 - 10.30
KL1842STA	3/8	0.374	9.50	3.125	79.375	0.4055	10.30	0.4040 - 0.4055	10.26 - 10.30
KL1861A	3/8	0.374	9.53	3.130	79.500	0.4060	10.31		
KL1975STA	3/8	0.375	9.53	2.500	63.500	0.4055	10.30	0.4040 - 0.4055	10.26 - 10.30
KL1920STA	10.0mm	0.393	9.98	3.125	79.375	0.4255	10.81	0.4240 - 0.4255	10.77 - 10.81
KL1988STA	7/16	0.432	10.97	2.500	63.500	0.4675	11.87	0.4660 - 0.4675	11.84 - 11.87
KL1905STA	11.0mm	0.433	11.00	3.250	82.550	0.4675	11.87	0.4660 - 0.4675	11.84 - 11.87

Valve Guide Liner/Miscellaneous Tooling Numerical Listing

SBI Part #	Description	Size	Part Note
KL1036	Guide Brush	Universal	Incl. In Standard & Master Guide-Liner Kits
KL1060	H.S. Valve Guide Reamer	0.1970 (5.0038)	
KL1061	H.S. Valve Guide Reamer	0.2140 (5.4356)	
KL1062	H.S. Valve Guide Reamer	0.2150 (5.4610)	
KL1063	H.S. Valve Guide Reamer	0.2170 (5.5118)	
KL1064	H.S. Valve Guide Reamer	0.2180 (5.5372)	
KL1110	H.S. Valve Guide Reamer	0.2362 (6.0000)	
KL1110NB	Bronze H.S. Guide Reamer	0.2360 (5.9944)	
KL1111	H.S. Valve Guide Reamer	0.2756 (7.0000)	
KL1111NB	Bronze H.S. Guide Reamer	0.2750 (6.9850)	
KL1112	H.S. Valve Guide Reamer	0.3150 (8.0000)	
KL1112NB	Bronze H.S. Guide Reamer	0.3150 (8.0000)	
KL1113	H.S. Valve Guide Reamer	0.3543 (9.0000)	
KL1113NB	Bronze H.S. Guide Reamer	0.3543 (9.0000)	
KL1114	H.S. Valve Guide Reamer	0.3937 (10.000)	
KL1116NB	Bronze H.S. Guide Reamer	0.3100 (7.8740)	
KL1117	H.S. Valve Guide Reamer	0.3110 (7.8994)	
KL1117NB	Bronze H.S. Valve Guide Reamer	0.3110 (7.8994)	
KL1118	H.S. Valve Guide Reamer	0.3120 (7.9248)	
KL1118NB	Bronze H.S. Guide Reamer	0.3120 (7.9248)	
KL1119	H.S. Valve Guide Reamer	0.3410 (8.6614)	
KL1119NB	Bronze H.S. Guide Reamer	0.3410 (8.6614)	
KL1120	H.S. Valve Guide Reamer	0.3420 (8.6868)	
KL1120NB	Bronze H.S. Guide Reamer	0.3420 (8.6868)	
KL1121	H.S. Valve Guide Reamer	0.3430 (8.7122)	
KL1121NB	Bronze H.S. Guide Reamer	0.3430 (8.7122)	
KL1122	H.S. Valve Guide Reamer	0.3440 (8.7376)	
KL1122NB	Bronze H.S. Guide Reamer	0.3440 (8.7376)	
KL1123	H.S. Valve Guide Reamer	0.3450 (8.7630)	
KL1123NB	Bronze H.S. Guide Reamer	0.3450 (8.7630)	
KL1124NB	Bronze H.S. Guide Reamer	0.3710 (9.4234)	
KL1125	H.S. Valve Guide Reamer	0.3720 (9.4488)	
KL1125NB	Bronze H.S. Guide Reamer	0.3720 (9.4488)	
KL1126	H.S. Valve Guide Reamer	0.3730 (9.4742)	
KL1126NB	Bronze H.S. Guide Reamer	0.3730 (9.4742)	
KL1127	H.S. Valve Guide Reamer	0.3740 (9.4996)	
KL1127NB	Bronze H.S. Guide Reamer	0.3740 (9.4996)	
KL1128	H.S. Valve Guide Reamer	0.3750 (9.5250)	
KL1128NB	Bronze H.S. Guide Reamer	0.3750 (9.5250)	
KL1136	H.S. Valve Guide Reamer	0.3460 (8.7884)	
KL1138	H.S. Valve Guide Reamer	0.3580 (9.0932)	
KL1139	H.S. Valve Guide Reamer	0.3760 (9.5504)	
KL1148	H.S. Valve Guide Reamer	0.2770 (7.0358)	
KL1157	H.S. Valve Guide Reamer	0.2740 (6.9596)	
KL1173	H.S. Valve Guide Reamer	0.2600 (6.6040)	
KL1173NB	Bronze H.S. Guide Reamer	0.2600 (6.6040)	
KL1174	H.S. Valve Guide Reamer	0.3160 (8.0264)	
KL1174NB	Bronze H.S. Guide Reamer	0.3160 (8.0264)	
KL1175	H.S. Valve Guide Reamer	0.3170 (8.0518)	
KL1175NB	Bronze H.S. Guide Reamer	0.3170 (8.0518)	
KL1176	H.S. Valve Guide Reamer	0.3130 (7.9502)	
KL1176NB	Bronze H.S. Guide Reamer	0.3130 (7.9502)	
KL1177	H.S. Valve Guide Reamer	0.3140 (7.9756)	
KL1177NB	Bronze H.S. Guide Reamer	0.3140 (7.9756)	
KL1178	H.S. Valve Guide Reamer	0.3180 (8.0772)	
KL1180	H.S. Valve Guide Reamer	0.3435 (8.7249)	
KL1181	H.S. Valve Guide Reamer	0.3470 (8.8138)	
KL1182	H.S. Valve Guide Reamer	0.3780 (9.6012)	
KL1182NB	Bronze H.S. Guide Reamer	0.3780 (9.6012)	
KL1185	H.S. Valve Guide Reamer	0.2160 (5.4864)	
KL1185NB	Bronze H.S. Guide Reamer	0.2160 (5.4864)	

Valve Guide Liner/Miscellaneous Tooling Numerical Listing

SBI Part #	Description	Size	Part Note
KL1187	H.S. Valve Guide Reamer	0.2810 (7.1374)	
KL1188	H.S. Valve Guide Reamer	0.3270 (8.3058)	
KL1190	H.S. Valve Guide Reamer	0.3530 (8.9662)	
KL1191	H.S. Valve Guide Reamer	0.3550 (9.0170)	
KL1192	H.S. Valve Guide Reamer	0.3560 (9.0424)	
KL1193	H.S. Valve Guide Reamer	0.3770 (9.5758)	
KL1193NB	Bronze H.S. Guide Reamer	0.3770 (9.5758)	
KL1194	H.S. Valve Guide Reamer	0.3800 (9.6520)	
KL1196	H.S. Valve Guide Reamer	0.3880 (9.8552)	
KL1197	H.S. Valve Guide Reamer	0.3900 (9.9060)	
KL1199	H.S. Valve Guide Reamer	0.2340 (5.9436)	
KL1205	H.S. Valve Guide Reamer	0.3930 (9.9822)	
KL1207	H.S. Valve Guide Reamer	0.2580 (6.5532)	
KL1208	H.S. Valve Guide Reamer	0.2590 (6.5786)	
KL1209	H.S. Valve Guide Reamer	0.3790 (9.6266)	
KL1210	H.S. Valve Guide Reamer	0.3400 (8.6360)	
KL1213	H.S. Valve Guide Reamer	0.3810 (9.6774)	
KL1214	H.S. Valve Guide Reamer	0.2760 (7.0104)	
KL1215	H.S. Valve Guide Reamer	0.3570 (9.0678)	
KL1216	H.S. Valve Guide Reamer	0.2350 (5.9690)	
KL1217	H.S. Valve Guide Reamer	0.2370 (6.0198)	
KL1224	Bronze Lube	1 Pint	
KL1225	Bronze Lube	1 Quart	
KL1600NX	Master Guide-Liner Kit	5/16	Contents: KL1036, KL1719CB-9, KL2427, KL2500, KL4235, KL4238, KL5680, KL5844, KL5845, KL5846, KL9932, KL9961
KL1600RX	Standard Guide-Liner Kit	5/16	Contents: KL1036, KL1719C-9, KL1787, KL5844, KL5845, KL5846, KL9932, KL9961
KL1601NX	Master Guide-Liner Kit	11/32	Contents: KL1036, KL1725CB-9, KL2428, KL2501, KL4235, KL4239, KL5681, KL5857, KL5858, KL5859, KL9934, KL9962
KL1601RX	Standard Guide-Liner Kit	11/32	Contents: KL1036, KL1725C-9, KL1797, KL5857, KL5858, KL5859, KL9934, KL9962
KL1602NX	Master Guide-Liner Kit	3/8	Contents: KL1036, KL1735CB-9, KL2419, KL2502, KL4235, KL4240, KL5682, KL5872, KL5873, KL5874, KL9936, KL9963
KL1602RX	Standard Guide-Liner Kit	3/8	Contents: KL1036, KL1735C-9, KL1807, KL5872, KL5873, KL5874, KL9936, KL9963
KL1606NX	Master Guide-Liner Kit	6.6mm	Contents: KL1036, KL3571CB-9, KL2425, KL2504, KL4233, KL4242, KL5684, KL5825, KL5826, KL5827, KL9930, KL9972
KL1606RX	Standard Guide-Liner Kit	6.6mm	Contents: KL1036, KL3205, KL3571C-9, KL5825, KL5826, KL5827, KL9930, KL9972
KL1607NX	Master Guide-Liner Kit	7.0mm	Contents: KL1036, KL3576CB-9, KL2426, KL2505, KL4233, KL4243, KL5685, KL5835, KL5836, KL5837, KL5838, KL9931, KL9973
KL1607RX	Standard Guide-Liner Kit	7.0mm	Contents: KL1036, KL1897, KL3576C-9, KL5835, KL5836, KL5837, KL5838, KL9931, KL9973
KL1608NX	Master Guide-Liner Kit	8.0mm	Contents: KL1036, KL3581CB-9, KL2427, KL2506, KL4235, KL4238, KL5686, KL5847, KL5848, KL5849, KL9933, KL9968
KL1608RX	Standard Guide-Liner Kit	8.0mm	Contents: KL1036, KL1787, KL3581C-9, KL5847, KL5848, KL5849, KL9933, KL9968
KL1609NX	Master Guide-Liner Kit	9.0mm	Contents: KL1036, KL3586CB-9, KL2428, KL2507, KL4235, KL4244, KL5687, KL5864, KL5865, KL5866, KL9935, KL9969
KL1609RX	Standard Guide-Liner Kit	9.0mm	Contents: KL1036, KL3235, KL3586C-9, KL5864, KL5865, KL5866, KL9935, KL9969
KL1610NX	Master Guide-Liner Kit	10.0mm	Contents: KL1036, KL3591CB-9, KL2429, KL2508, KL4235, KL4248, KL5688, KL5876, KL5877, KL5878, KL9939, KL9970
KL1611NX	Master Guide-Liner Kit	11.0mm	Contents: KL1036, KL1749CB-9, KL2430, KL2503, KL4235, KL4241, KL5689, KL5880, KL5881, KL5882, KL5818, KL9937, KL9964
KL1612NX	Master Guide-Liner Kit	6.0mm	Contents: KL1036, KL3566CB-9, KL2423, KL2499, KL4233, KL4245, KL5679, KL5815, KL5816, KL5817, KL5818, KL9929, KL9971
KL1612RX	Standard Guide-Liner Kit	6.0mm	Contents: KL1036, KL3185, KL3566C-9, KL5815, KL5816, KL5817, KL5818, KL9929, KL9971
KL1613NX	Master Guide-Liner Kit	5.0mm	Contents: KL1036, KL2422, KL2514, KL3556CC, KL4230, KL4247, KL5677, KL5901, KL5902, KL5903, KL9921, KL9957
KL1613RX	Standard Guide-Liner	5.0mm	Contents: KL1036, KL3556CC, KL4230, KL4247, KL5901, KL5902, KL5903, KL9921, KL9957
KL1614NX	Master Guide-Liner Kit	5.5mm	Contents: KL1036, KL3561CC, KL2424, KL2498, KL4233, KL4246, KL5678, KL5808, KL5809, KL5810, KL5811, KL9922, KL9958

Valve Guide Liner/Miscellaneous Tooling Numerical Listing

SBI Part #	Description	Size	Part Note
KL1614RX	Standard Guide-Liner Kit	5.5mm	Contents: KL1036, KL3184, KL3561CC, KL5808, KL5809, KL5810, KL5811, KL9922, KL9958
KL1719C-9	Carbide Boring Reamer	5/16	Incl. In KL1600RX Kit
KL1719CB-9	Black Beauty Boring Reamer	5/16	Incl. In KL1600NX Kit
KL1719CC	Guide Pro Boring Tool	5/16 - 30	
KL1725C-9	Carbide Boring Reamer	11/32	Incl. In KL1601RX Kit
KL1725CB-9	Black Beauty Boring Reamer	11/32	Incl. In KL1601NX Kit
KL1725CC	Guide Pro Boring Tool	11/32 - 30	
KL1735C-9	Carbide Boring Reamer	3/8	Incl. In KL1602RX Kit
KL1735CB-9	Black Beauty Boring Reamer	3/8	Incl. In KL1602NX Kit
KL1735CC	Guide Pro Boring Tool	3/8 - 30	
KL1749CB-9	Black Beauty Boring Reamer	11.0mm	Incl. In KL1611NX Kit
KL1787	Trim Tool	5/16 - 8.0mm	Incl. In KL1600RX & KL1608RX Kits
KL1797	Trim Tool	11/32	Incl. In KL1601RX Kit
KL1807	Trim Tool	3/8	Incl. In KL1602RX Kit
KL1897	Trim Tool	7.0mm	Incl. In KL1607RX Kit
KL2419	Flex Hone	3/8 - 9.5mm	Incl. In KL1602NX Kit
KL2422	Flex Hone	13/64 - 5.0mm	Incl. In KL1613NX Kit
KL2423	Flex Hone	15/64 - 6.0mm	Incl. In KL1612NX Kit
KL2424	Flex Hone	7/32 - 5.5mm	Incl. In KL1614NX Kit
KL2425	Flex Hone	1/4 - 6.6mm	Incl. In KL1606NX Kit
KL2426	Flex Hone	9/32 - 7.0mm	Incl. In KL1607NX Kit
KL2427	Flex Hone	5/16 - 8.0mm	Incl. In KL1600NX & KL1608NX Kits
KL2428	Flex Hone	11/32 - 9.0mm	Incl. In KL1601NX & KL1609NX Kits
KL2429	Flex Hone	25/64 - 10.0mm	Incl. In KL1610NX Kit
KL2430	Flex Hone	7/16 - 11.0mm	Incl. In KL1611NX Kit
KL2498	Go-No-Go Gage	5.5mm	Incl. In KL1614NX Kit
KL2499	Go-No-Go Gage	6.0mm	Incl. In KL1612NX Kit
KL2500	Go-No-Go Gage	5/16	Incl. In KL1600NX Kit
KL2501	Go-No-Go Gage	11/32	Incl. In KL1601NX Kit
KL2502	Go-No-Go Gage	3/8	Incl. In KL1602NX Kit
KL2503	Go-No-Go Gage	7/16 - 11.0mm	Incl. In KL1611NX Kit
KL2504	Go-No-Go Gage	6.6mm	Incl. In KL1606NX Kit
KL2505	Go-No-Go Gage	7.0mm	Incl. In KL1607NX Kit
KL2506	Go-No-Go Gage	8.0mm	Incl. In KL1608NX Kit
KL2507	Go-No-Go Gage	9.0mm	Incl. In KL1609NX Kit
KL2508	Go-No-Go Gage	10.0mm	Incl. In KL1610NX Kit
KL2514	Go-No-Go Gage	5.0mm	Incl. In KL1613NX Kit
KL3184	Trim Tool	5.5mm	Incl. In KL1614RX Kit
KL3185	Trim Tool	6.0mm	Incl. In KL1612RX Kit
KL3205	Trim Tool	6.6mm	Incl. In KL1606RX Kit
KL3235	Trim Tool	9.0mm	Incl. In KL1609RX Kit
KL3519CSP	Black Beauty Boring Reamer	5/16 - 30	
KL3525CSP	Black Beauty Boring Reamer	11/32 - 30	
KL3535CSP	Black Beauty Boring Reamer	3/8 - 30	
KL3556CC	Boring Reamer	5.0mm	Incl. In KL1613NX & KL1613RX Kits
KL3561CC	Guide Pro Boring Tool	5.5mm	Incl. In KL1614NX & KL1614RX Kits
KL3561CSP	Black Beauty Boring Reamer	5.5mm - 30	For Bronze Guides
KL3566C-9	Carbide Boring Reamer	6.0mm	Incl. In KL1612RX Kit
KL3566CB-9	Black Beauty Boring Reamer	6.0mm	Incl. In KL1612NX Kit
KL3566CC	Guide Pro Boring Tool	6.0mm - 30	
KL3566CSP	Black Beauty Boring Reamer	6.0mm	For Bronze Guides
KL3571C-9	Carbide Boring Reamer	6.6mm	Incl. In KL1606RX Kit
KL3571CB-9	Black Beauty Boring Reamer	6.6mm	Incl. In KL1606NX Kit
KL3571CSP	Black Beauty Boring Reamer	6.6mm - 30	For Bronze Guides
KL3576C-9	Carbide Boring Reamer	7.0mm	Incl. In KL1607RX Kit
KL3576CB-9	Black Beauty Boring Reamer	7.0mm	Incl. In KL1607NX Kit
KL3576CC	Guide Pro Boring Tool	7.0mm - 30	
KL3576CSP	Black Beauty Boring Reamer	7.0mm	For Bronze Guides
KL3581C-9	Carbide Boring Reamer	8.0mm	Incl. In KL1608RX Kit
KL3581CB-9	Black Beauty Boring Reamer	8.0mm	Incl. In KL1608NX Kit

Valve Guide Liner/Miscellaneous Tooling Numerical Listing

SBI Part #	Description	Size	Part Note
KL3581CC	Guide Pro Boring Tool	8.0mm	
KL3581CSP	Black Beauty Boring Reamer	8.0mm	For Bronze Guides
KL3586C-9	Carbide Boring Reamer	9.0mm	Incl. In KL1609RX Kit
KL3586CB-9	Black Beauty Boring Reamer	9.0mm	Incl. In KL1609NX Kit
KL3586CC	Guide Pro Boring Tool	9.0mm - 30	
KL3591CB-9	Black Beauty Boring Reamer	10.0mm	Incl. In KL1610NX Kit
KL4230	Guide Top Cutter	5.0mm	Incl. In KL1613NX & KL1613RX Kits
KL4230A	Guide Top Cutter Replacement Blade		
KL4233	Guide Top Cutter	5.5mm - 7.0mm	Incl. In KL1606NX, KL1607NX, KL1612NX, KL1614NX Kits
KL4234	Guide Top Cutter Replacement Blade		
KL4235	Guide Top Cutter	5/16 - 11.0mm	Incl. In KL1600NX, KL1601NX, KL1602NX, KL1608NX, KL1609NX, KL1610NX, KL1611NX Kits
KL4236	Guide Top Cutter Replacement Blade		
KL4237	Replacement Holding Screw		
KL4238	Cutter Pilot	5/16 - 8.0mm	Incl. In KL1600NX, KL1608NX Kits
KL4239	Cutter Pilot	11/32	Incl. In KL1601NX Kit
KL4240	Cutter Pilot	3/8	Incl. In KL1602NX Kit
KL4241	Cutter Pilot	11.0mm	Incl. In KL1611NX Kit
KL4242	Cutter Pilot	6.6mm	Incl. In KL1606NX Kit
KL4243	Cutter Pilot	7.0mm	Incl. In KL1607NX Kit
KL4244	Cutter Pilot	9.0mm	Incl. In KL1609NX Kit
KL4245	Cutter Pilot	6.0mm	Incl. In KL1612NX Kit
KL4246	Cutter Pilot	5.5mm	Incl. In KL1614NX Kit
KL4247	Cutter Pilot	5.0mm	Incl. In KL1613NX & KL1613RX Kits
KL4248	Cutter Pilot	10.0mm	Incl. In KL1610NX Kit
KL5677	Removal Tool	5.0mm	Incl. In KL1613NX Kit
KL5678	Removal Tool	5.5mm	Incl. In KL1614NX Kit
KL5679	Removal Tool	6.0mm	Incl. In KL1612NX Kit
KL5680	Removal Tool	5/16	Incl. In KL1600NX Kit
KL5681	Removal Tool	11/32	Incl. In KL1601NX Kit
KL5682	Removal Tool	3/8	Incl. In KL1602NX Kit
KL5684	Removal Tool	6.6mm	Incl. In KL1606NX Kit
KL5685	Removal Tool	7.0mm	Incl. In KL1607NX Kit
KL5686	Removal Tool	8.0mm	Incl. In KL1608NX Kit
KL5687	Removal Tool	9.0mm	Incl. In KL1609NX Kit
KL5688	Removal Tool	10.0mm	Incl. In KL1610NX Kit
KL5689	Removal Tool	11.0mm	Incl. In KL1611NX Kit
KL5758	Holder/Driver For Ball Broaches	5.5mm - 8.0mm	
KL5759	Holder/Driver For Ball Broaches	11/32 - 7/16	
KL5759B	Holder/Driver Replacement Bumper		
KL5808	Ball Broach	0.2170 (5.5100)	Incl. In KL1614NX & KL1614RX Kits
KL5809	Ball Broach	0.2175 (5.5250)	Incl. In KL1614NX & KL1614RX Kits
KL5810	Ball Broach	0.2180 (5.5400)	Incl. In KL1614NX & KL1614RX Kits
KL5811	Ball Broach	0.2185 (5.5500)	Incl. In KL1614NX & KL1614RX Kits
KL5813	Ball Broach	0.2350 (5.9690)	
KL5814	Ball Broach	0.2360 (5.9944)	
KL5815	Ball Broach	0.2370 (6.0200)	Incl. In KL1612NX & KL1612RX Kits
KL5816	Ball Broach	0.2375 (6.0330)	Incl. In KL1612NX & KL1612RX Kits
KL5817	Ball Broach	0.2380 (6.0500)	Incl. In KL1612NX & KL1612RX Kits
KL5818	Ball Broach	0.2385 (6.0580)	Incl. In KL1612NX & KL1612RX Kits
KL5819	Ball Broach	0.2390 (6.0706)	
KL5820	Ball Broach	0.2395 (6.0833)	
KL5825	Ball Broach	0.2600 (6.6000)	Incl. In KL1606NX & KL1606RX Kits
KL5826	Ball Broach	0.2610 (6.6300)	Incl. In KL1606NX & KL1606RX Kits
KL5827	Ball Broach	0.2620 (6.6500)	Incl. In KL1606NX & KL1606RX Kits
KL5834	Ball Broach	0.2750 (6.9900)	
KL5835	Ball Broach	0.2760 (7.0100)	Incl. In KL1607NX & KL1607RX Kits
KL5836	Ball Broach	0.2770 (7.0400)	Incl. In KL1607NX & KL1607RX Kits
KL5837	Ball Broach	0.2780 (7.0600)	Incl. In KL1607NX & KL1607RX Kits
KL5838	Ball Broach	0.2790 (7.0900)	Incl. In KL1607NX & KL1607RX Kits
KL5839	Ball Broach	0.2800 (7.1100)	

Valve Guide Liner/Miscellaneous Tooling Numerical Listing

SBI Part #	Description	Size	Part Note
KL5840	Ball Broach	0.2810 (7.1400)	
KL5842	Ball Broach	0.3100 (7.8700)	
KL5843	Ball Broach	0.3110 (7.9000)	
KL5844	Ball Broach	0.3120 (7.9200)	Incl. In KL1600NX & KL1600RX Kits
KL5845	Ball Broach	0.3130 (7.9500)	Incl. In KL1600NX & KL1600RX Kits
KL5846	Ball Broach	0.3140 (7.9800)	Incl. In KL1600NX & KL1600RX Kits
KL5847	Ball Broach	0.3150 (8.0000)	Incl. In KL1608NX & KL1608RX Kits
KL5848	Ball Broach	0.3160 (8.0300)	Incl. In KL1608NX & KL1608RX Kits
KL5849	Ball Broach	0.3170 (8.0500)	Incl. In KL1608NX & KL1608RX Kits
KL5850	Ball Broach	0.3180 (8.0800)	
KL5851	Ball Broach	0.3190 (8.1000)	
KL5852	Ball Broach	0.3200 (8.1300)	
KL5855	Ball Broach	0.3410 (8.6600)	
KL5856	Ball Broach	0.3420 (8.6900)	
KL5857	Ball Broach	0.3435 (8.7250)	Incl. In KL1601NX & KL1601RX Kits
KL5858	Ball Broach	0.3445 (8.7500)	Incl. In KL1601NX & KL1601RX Kits
KL5859	Ball Broach	0.3455 (8.7760)	Incl. In KL1601NX & KL1601RX Kits
KL5860	Ball Broach	0.3465 (8.8010)	
KL5864	Ball Broach	0.3540 (8.9900)	Incl. In KL1609NX & KL1609RX Kits
KL5865	Ball Broach	0.3550 (9.0200)	Incl. In KL1609NX & KL1609RX Kits
KL5866	Ball Broach	0.3560 (9.0400)	Incl. In KL1609NX & KL1609RX Kits
KL5869	Ball Broach	0.3730 (9.4700)	
KL5871	Ball Broach	0.3720 (9.4500)	
KL5872	Ball Broach	0.3740 (9.5000)	Incl. In KL1602NX & KL1602RX Kits
KL5873	Ball Broach	0.3750 (9.5300)	Incl. In KL1602NX & KL1602RX Kits
KL5874	Ball Broach	0.3760 (9.5500)	Incl. In KL1602NX & KL1602RX Kits
KL5876	Ball Broach	0.3940 (10.000)	Incl. In KL1610NX Kit
KL5877	Ball Broach	0.3950 (10.030)	Incl. In KL1610NX Kit
KL5878	Ball Broach	0.3960 (10.060)	Incl. In KL1610NX Kit
KL5880	Ball Broach	0.4330 (11.000)	Incl. In KL1611NX Kit
KL5881	Ball Broach	0.4340 (11.020)	Incl. In KL1611NX Kit
KL5882	Ball Broach	0.4350 (11.050)	Incl. In KL1611NX Kit
KL5889	Ball Broach	0.3450 (8.7600)	
KL5890	Ball Broach	0.3770 (9.5800)	
KL5892	Ball Broach	0.3745 (9.5120)	
KL5893	Ball Broach	0.3755 (9.5380)	
KL5901	Ball Broach	0.1973 (5.0114)	Incl. In KL1613NX & KL1613RX Kits
KL5902	Ball Broach	0.1978 (5.0241)	Incl. In KL1613NX & KL1613RX Kits
KL5903	Ball Broach	0.1983 (5.0368)	Incl. In KL1613NX & KL1613RX Kits
KL9900	Valve Guide Boring Fixture		**FACTORY ORDER**
KL9907	Valve Seat Bushing Kit	7 Piece	Contents: KL9911, KL9912, KL9913, KL9915, KL9916, KL9918, KL9919
KL9910	Valve Seat Bushing Kit	9 Piece	Contents: KL9911, KL9912, KL9913, KL9914, KL9915, KL9916, KL9917, KL9918, KL9919
KL9911	Valve Seat Bushing	1"	Incl. In KL9907, KL9910 Kits
KL9912	Valve Seat Bushing	1 ³ / ₁₆ "	Incl. In KL9907, KL9910 Kits
KL9913	Valve Seat Bushing	1 ³ / ₈ "	Incl. In KL9907, KL9910 Kits
KL9914	Valve Seat Bushing	1 ¹ / ₂ "	Incl. In KL9910 Kit
KL9915	Valve Seat Bushing	1 ⁵ / ₈ "	Incl. In KL9907, KL9910 Kits
KL9916	Valve Seat Bushing	1 ³ / ₄ "	Incl. In KL9907, KL9910 Kits
KL9917	Valve Seat Bushing	1 ⁷ / ₈ "	Incl. In KL9910 Kit
KL9918	Valve Seat Bushing	2"	Incl. In KL9907, KL9910 Kits
KL9919	Valve Seat Bushing	2 ¹ / ₄ "	Incl. In KL9907, KL9910 Kits
KL9920	Valve Seat Bushing	2 ¹ / ₂ "	
KL9921	Reamer Bushing	5.0mm	Incl. In KL1613NX & KL1613RX Kits
KL9922	Reamer Bushing	5.5mm	Incl. In KL1614NX & KL1614RX Kits
KL9925	Guide Boring Fixture Stand		**FACTORY ORDER**
KL9929	Reamer Bushing	6.0mm	Incl. In KL1612NX & KL1612RX Kits
KL9930	Reamer Bushing	6.6mm	Incl. In KL1606NX & KL1606RX Kits
KL9931	Reamer Bushing	7.0mm	Incl. In KL1607NX & KL1607RX Kits
KL9932	Reamer Bushing	5 ⁵ / ₁₆ "	Incl. In KL1600NX & KL1600RX Kits
KL9933	Reamer Bushing	8.0mm	Incl. In KL1608NX & KL1608RX Kits

Valve Guide Liner/Miscellaneous Tooling Numerical Listing

SBI Part #	Description	Size	Part Note
KL9934	Reamer Bushing	1 ¹ / ₃₂	Incl. In KL1601NX & KL1601RX Kits
KL9935	Reamer Bushing	9.0mm	Incl. In KL1609NX & KL1609RX Kits
KL9936	Reamer Bushing	3/8	Incl. In KL1602NX & KL1602RX Kits
KL9937	Reamer Bushing	11.0mm	Incl. In KL1611NX Kit
KL9939	Reamer Bushing	10.0mm	Incl. In KL1610NX Kit
KL9957	Auto Installer	5.0mm	Incl. In KL1613NX & KL1613RX Kits
KL9958	Auto Installer	5.5mm	Incl. In KL1614NX & KL1614RX Kits
KL9961	Auto Installer	5/16	Incl. In KL1600NX & KL1600RX Kits
KL9962	Auto Installer	1 ¹ / ₃₂	Incl. In KL1601NX & KL1601RX Kits
KL9963	Auto Installer	3/8	Incl. In KL1602NX & KL1602RX Kits
KL9964	Auto Installer	11.0mm	Incl. In KL1611NX Kit
KL9968	Auto Installer	8.0mm	Incl. In KL1608NX & KL1608RX Kits
KL9969	Auto Installer	9.0mm	Incl. In KL1609NX & KL1609RX Kits
KL9970	Auto Installer	10.0mm	Incl. In KL1610NX Kit
KL9971	Auto Installer	6.0mm	Incl. In KL1612NX & KL1612RX Kits
KL9972	Auto Installer	6.6mm	Incl. In KL1606NX & KL1606RX Kits
KL9973	Auto Installer	7.0mm	Incl. In KL1607NX & KL1607RX Kits

Valve Spring Numerical Listing

SBI Part #	Free Length	O.D.	I.D.	Wire Size	Closed Position Pressure & Length	Open Position Pressure & Length	Number Of Coils Left Or Righ Hand	Solid Height	Material
160-1001	2.066	1.292	0.938	0.177	75@1.727	180@1.340	7.20 LH	1.260	A877
160-1003	2.120	1.501	0.803	0.207	111@1.880	331@1.380	6.50 RH	1.280	A877
160-1004	2.060	1.393	1.010	0.192	75@1.790	200@1.340	6.90 LH	1.255	A877
160-1005	1.480	1.121	0.809	0.156	50@1.263	123@0.953	6.00 RH	0.860	A877
160-1006	1.960	1.437	1.053	0.192	80@1.670	187@1.270	5.85 RH	1.110	A877
160-1009	1.910	1.230	0.876	0.177	92@1.610	235@1.160	6.60 RH	1.130	A877
160-1011	2.078	1.540	1.090	0.225	80@1.880	300@1.380	5.68 LH	1.278	A877
160-1013	1.770	0.980	0.754	0.113	27@1.380	56@0.960	7.50 LH	0.850	A877
160-1016	1.830	1.318	0.964	0.177	51@1.640	140@1.265	5.63 RH	1.000	A230
160-1018	1.810	1.390	1.020	0.185	85@1.480	187@1.080	5.75 RH	1.002	A877
160-1019	1.968	1.300	0.988	0.156	55@1.575	105@1.200	7.00 RH	1.106	A230
160-1020	2.000	1.385	1.015	0.185	83@1.687	177@1.310	6.75 RH	1.249	A877
160-1023	2.034	1.370	0.970	0.200	69@1.800	207@1.400	6.50 RH	1.225	AS-28
160-1024	1.923	1.380	0.996	0.192	55@1.700	165@1.300	6.10 LH	1.115	A877
160-1025	2.000	1.221	0.875	0.173	45@1.800	130@1.400	7.26 RH	1.230	A877
160-1030	1.822	1.283	0.959	0.162	46@1.550	120@1.150	6.00 RH	1.056	A230
160-1031	1.875	1.315	0.961	0.177	57@1.600	155@1.200	6.50 RH	1.150	A877
160-1038	1.800	1.324	0.950	0.187	50@1.600	170@1.200	5.90 RH	1.091	A877
160-1041	1.965	1.410	1.010	0.200	45@1.800	205@1.300	6.10 LH	1.220	A877
160-1044	2.040	1.394	1.010	0.192	78@1.780	204@1.360	6.75 LH	1.290	A877
160-1047	2.100	1.394	1.010	0.192	78@1.780	204@1.330	6.50 LH	1.260	A877
160-1049	2.010	1.437	1.053	0.192	90@1.670	210@1.220	5.78 RH	1.110	A877
160-1054	1.900	1.385	1.011	0.187	39@1.750	190@1.200	5.75 RH	1.075	AS-28
160-1055	1.760	1.195	0.871	0.162	55@1.550	125@1.200	5.90 RH	1.092	A877
160-1064	1.935	1.300	0.960	0.170	45@1.700	143@1.200	6.00 RH	1.002	A877
160-1071	2.028	1.410	1.010	0.200	80@1.780	225@1.330	6.50 LH	1.250	A877
160-1072	1.840	1.297	0.933	0.182	65@1.577	180@1.156	5.90 LH	1.050	A877
160-1076	2.110	1.290	0.930	0.180	90@1.701	215@1.290	6.89 RH	1.240	A877
160-1079	1.960	1.346	0.960	0.162 X 0.192	70@1.600	178@1.200	6.80 RH	1.150	A877
160-1080	1.878	1.279	0.933	0.173	97@1.460	217@1.020	6.00 RH	0.976	A877
160-1083	2.093	1.231	0.899	0.166	97@1.679	198@1.240	7.00 RH	1.161	A877
160-1085	1.981	1.249	0.895	0.177	80@1.720	210@1.320	7.00 RH	1.250	A877
160-1086	2.059	1.232	0.878	0.177	105@1.610	214@1.220	6.80 RH	1.146	A877
160-1096	1.720	0.960	0.710	0.125	37@1.350	62@1.100	8.00 RH	1.060	A877
160-1097	1.958	1.317	1.005	0.156	62@1.450	101@1.200	7.00 LH	1.048	A877
160-1099	1.780	1.232	0.900	0.166	75@1.440	165@1.040	6.00 RH	0.960	AS33
160-1103	1.950	1.349	0.950	0.200	73@1.732	223@1.350	6.50 RH	1.250	A230
160-1106	1.923	1.303	0.949	0.177	65@1.600	161@1.200	6.60 RH	1.176	A877
160-1112	1.710	1.250T	0.890T	0.177	79@1.437	208@1.030	5.80 RH	0.990	A877
160-1114	2.533	1.188	0.864	0.162	53@2.109	120@1.750	9.37 LH	1.520	A877
160-1115	1.970	1.239	0.885	0.177	74@1.660	155@1.400	7.00 LH	1.240	A877
160-1116	2.250	1.341	0.969	0.182	78@1.858	192@1.462	8.00 LH	1.390	A877
160-1117	2.030	1.220	0.880	0.170	80@1.696	160@1.366	7.25 RH	1.190	A877
160-1118	1.980	1.382	1.058	0.162	58@1.533	105@1.203	6.25 RH	1.020	A877
160-1119	1.760	0.963	0.723	0.120	26@1.483	57@1.153	8.00 LH	0.960	A877
160-1120	2.222	1.364	1.010	0.177	75@1.780	168@1.390	7.00 LH	1.300	A877
160-1121	2.250	1.220	0.880	0.170	63@1.946	160@1.496	8.20 RH	1.394	A877
160-1122	2.000	1.394	1.020	0.192	83@1.687	178@1.313	6.25 LH	1.203	A877
160-1124	2.260	1.436	1.062	0.187	99@1.820	189@1.420	6.50 LH	1.250	A877
160-1125	2.050	1.220	0.880	0.170	74@1.696	164@1.306	6.50 RH	1.125	A877
160-1126	2.160	1.344	0.980	0.182	65@1.858	163@1.530	7.50 LH	1.375	A877
160-1127	2.000	1.328	1.004	0.162	52@1.585	117@1.220	7.25 LH	1.150	A877
160-1130	2.070	1.301	1.005	0.148	46@1.600	101@1.160	6.75 LH	1.030	A877
160-1131	1.828	1.355	1.006	0.177	52@1.585	154@1.220	6.00 LH	1.065	A230
160-1132	2.047	1.438	1.024	0.207	89@1.770	233@1.380	6.00 LH	1.260	A877
160-1134	1.990	1.400	1.016	0.192	80@1.700	197@1.300	6.00 LH	1.150	A877
160-1135	1.875	1.400	1.024	0.188	81@1.580	192@1.180	6.00 LH	1.120	A877
160-1136	1.760	1.060	0.776	0.142	31@1.566	102@1.114	6.75 LH	0.950	A877
160-1137	1.940	1.398	1.058	0.170	62@1.586	140@1.134	5.80 LH	0.990	AS33

Valve Spring Numerical Listing

SBI Part #	Free Length	O.D.	I.D.	Wire Size	Closed Position Pressure & Length	Open Position Pressure & Length	Number Of Coils Left Or Right Hand	Solid Height	Material
160-1138	2.143	1.543	1.093	0.225	110@1.880	343@1.380	6.00 LH	1.260	A877
160-1139	2.215	1.504	1.090	0.207	90@1.880	220@1.460	6.50 LH	1.340	AS33S
160-1140	2.260	1.332	0.958	0.187	100@1.812	195@1.437	7.25 RH	1.360	A877
160-1141	2.050	1.504	1.090	0.207	90@1.800	220@1.400	6.50 LH	1.340	A877
160-1142	1.860	1.225	0.885	0.170	60@1.640	166@1.250	6.50 LH	1.105	A877
160-1143	2.610	1.390	1.020	0.185	100@2.000	190@1.500	7.50 RH	1.350	A877
160-1144	2.048	1.230	0.876	0.177	88@1.700	225@1.250	6.60 RH	1.150	AS33
160-1144HP	2.023	1.260	0.876	0.192	118@1.700	318@1.210	6.50 RH	1.160	A877
160-1145	2.190	1.302	0.938	0.182	78@1.890	202@1.450	6.75 RH	1.220	A877
160-1147	1.960	1.437	1.053	0.192	80@1.670	212@1.270	5.85 RH	1.110	A877
160-1148	1.900	1.234	0.880	0.177	61@1.660	184@1.270	6.70 RH	1.170	A877
160-1149	2.230	1.494	1.080	0.207	105@1.860	246@1.360	6.25 RH	1.290	A877
160-1150	1.940	1.494	1.080	0.207	96@1.650	238@1.220	5.70 RH	1.100	A877
160-1151	1.970	1.380	1.010	0.185	75@1.660	180@1.230	6.25 RH	1.170	A877
160-1152	2.020	1.374	1.010	0.182	61@1.730	183@1.280	6.50 LH	1.180	A877
160-1154	2.060	1.503	1.067	0.218	85@1.820	270@1.320	6.00 LH	1.260	AS33
160-1156	2.112	1.058	0.788	0.135	40@1.666	95@1.214	8.67 LH	1.174	A877
160-1157	2.100	1.432	1.058	0.187	75@1.716	200@1.264	6.66 LH	1.224	A877
160-1159	2.155	1.460	1.060	0.197	83@1.790	215@1.340	6.40 LH	1.270	A877
160-1161	2.068	1.400	1.000	0.200	80@1.810	229@1.330	6.40 LH	1.280	A877
160-1162	2.056	1.410	1.010	0.200	80@1.820	226@1.390	6.70 LH	1.330	A877-10
160-1164	2.200	1.394	1.010	0.192	84@1.812	218@1.365	6.90 RH	1.300	A230
160-1171	3.543	1.580	1.206	0.187	60@2.719	135@2.154	11.00 RH	1.964	A877
160-1175	2.120	1.462	1.062	0.200	90@1.820	220@1.380	6.63 LH	1.320	AS33S
160-1176	3.349	1.802	1.332	0.235	171@2.470	280@1.908	7.86 LH	1.841	A877
160-1177	2.685	1.257	0.903	0.177	70@2.250	155@1.720	9.00 RH	1.610	A877
160-1178	2.310	1.484	1.110	0.187	55@1.950	180@1.400	7.38 RH	1.340	A877
160-1179	2.650	1.280	0.906	0.187	56@2.340	156@1.830	9.50 RH	1.770	A877
160-1184	2.470	1.250	0.867	0.192	78@2.200	183@1.800	8.20 RH	1.632	A877
160-1185	2.090	0.803	0.533	0.135	32@1.930	110@1.527	10.25 RH	1.380	A877
160-1186	1.970	0.951	0.655	0.148	35@1.800	115@1.397	8.80 RH	1.300	AS33
160-1187	2.060	0.829	0.533	0.148	33@1.930	100@1.700	10.50 RH	1.554	A877
160-1189	2.710	1.410	1.056	0.177	117@1.850	160@1.530	7.50 RH	1.350	A877
160-1190	2.400	1.453	1.070	0.192	93@1.900	200@1.400	6.75 RH	1.296	A877
160-1191	2.626	1.731	1.281	0.225	88@2.219	233@1.580	7.00 RH	1.519	A877
160-1192	2.050	1.386	1.016	0.185	58@1.766	159@1.271	6.75 LH	1.201	A877
160-1194	2.190	1.150T	0.760	0.197	94@1.900	221@1.550	7.50 RH	1.450	A877
160-1196	2.179	1.132	0.882	0.125	20@1.791	51@1.187	9.10 LH	1.106	AS25
160-1197	2.574	1.717	1.281	0.218	65@2.219	176@1.614	7.35 RH	1.531	A877
160-1198	2.005	1.552	1.138	0.207	48@1.802	174@1.302	6.30 RH	1.252	A877
160-1201	2.090	1.410	1.010	0.200	136@1.650	228@1.350	6.30 LH	1.200	A877
160-1203	1.785	1.379	1.015	0.182	30@1.667	174@1.119	5.50 LH	1.005	A877
160-1204	2.100	1.480	1.080	0.200	75@1.800	208@1.400	6.25 LH	1.250	A230
160-1205	2.173	1.375	1.021	0.177	58@1.811	143@1.358	6.75 RH	1.228	A877
160-1206	2.050	1.400	1.000	0.200	76@1.800	197@1.400	6.50 RH	1.260	AS33
160-1207	2.678	0.989	0.739	0.125	40@1.978	77@1.416	10.78 LH	1.316	AS33SC
160-1211	2.390	1.454	1.100	0.177	65@1.900	145@1.405	7.50 LH	1.280	A877
160-1212	2.208	1.420	1.067	0.177	69@1.740	145@1.320	6.75 LH	1.130	A230
160-1213	2.341	1.469	1.069	0.200	55@2.096	180@1.530	7.00 RH	1.434	A877
160-1216	2.065	1.316	0.992	0.162	59@1.575	105@1.260	6.75 LH	1.040	A877
160-1217	2.038	1.560	1.190	0.185	42@1.790	142@1.190	6.30 RH	1.117	A877
160-1218	1.920	1.050	0.794	0.128	20@1.672	70@1.072	8.00 RH	0.988	A877
160-1219	2.760	1.222	0.898	0.162	54@2.300	147@1.700	9.30 RH	1.521	A230
160-1220	2.313	1.306	1.010	0.148	40@1.812	70@1.437	7.50 RH	1.110	A877
160-1223	2.375	1.292	0.968	0.162	61@1.875	119@1.521	8.30 RH	1.344	A877
160-1225	2.640	1.297	1.013	0.142	38@1.937	70@1.546	9.50 RH	1.350	A877
160-1226	2.234	1.375	0.992	0.192	69@1.900	164@1.500	7.25 RH	1.392	A230
160-1227	2.440	1.475	1.091	0.192	90@1.900	190@1.400	7.00 LH	1.300	AS28
160-1228	1.900	1.435	1.052	0.192	52@1.700	170@1.250	6.00 RH	1.152	A877

Valve Spring Numerical Listing

SBI Part #	Free Length	O.D.	I.D.	Wire Size	Closed Position Pressure & Length	Open Position Pressure & Length	Number Of Coils Left Or Right Hand	Solid Height	Material
160-1233	2.035	1.260	0.876	0.192	80@1.811	230@1.390	6.60 RH	1.278	AS33
160-1236	2.020	0.896	0.656	0.120	35@1.700	87@1.300	9.25 LH	1.105	A877
160-1238	2.277	0.877	0.607	0.135	69@1.850	133@1.550	11.00 LH	1.477	A877
160-1241	1.882	1.065	0.795	0.135	23@1.650	65@1.300	7.40 RH	1.005	A877
160-1252	1.796	0.911	0.670	0.121	44@1.366	72@1.097	8.50 RH	0.983	A877
160-1253	1.620	0.911	0.655	0.128	25@1.450	82@1.100	8.00 LH	1.000	A877
160-1261	1.917	0.914	0.644	0.135	42@1.650	116@1.300	9.00 RH	1.255	A877
160-1262	1.943	0.936	0.640	0.148	47@1.700	141@1.350	9.10 LH	1.299	A877
160-1264	2.130	1.348	1.005	0.170	60@1.730	130@1.330	6.80 RH	1.130	A877
160-1266	2.040	1.247	0.893	0.177	83@1.700	197@1.270	6.70 RH	1.200	AS33
160-1267	1.960	1.250T	0.876T	0.187	50@1.800	214@1.318	6.50 RH	1.210	A877
160-1269	1.660	1.072	0.760	0.156	64@1.400	159@1.050	6.40 LH	0.982	A877
160-1271	2.106	0.847	0.623	0.112	40@1.550	69@1.250	10.10 RH	1.115	J157
160-1272	2.250	1.210	0.886	0.162	90@1.700	152@1.400	7.80 LH	1.238	J157
160-1285	2.343	1.078	0.794	0.142	35@1.953	85@1.503	10.25 RH	1.460	A230
160-1286	2.562	1.499	1.116	0.192	56@2.156	137@1.706	8.60 RH	1.600	A877
160-1287	2.681	1.354	1.030	0.162	58@1.978	109@1.541	9.00 RH	1.400	A877
160-1288	2.875	1.344	1.047	0.148	42@2.094	59@1.781	9.50 RH	1.410	A877
160-1289	2.281	1.007	0.737	0.135	31@1.945	87@1.396	9.50 RH	1.280	A877
160-1290	2.438	1.281	0.930	0.177	125@1.740	151@1.590	7.75 RH	1.370	A877
160-1291	2.578	1.425	1.141	0.142	49@1.656	83@1.256	7.50 LH	1.065	A230
160-1295	3.036	1.082	0.798	0.142	39@2.531	94@2.031	13.00 LH	1.812	A877
160-1296	3.468	1.555	1.201	0.177	44@2.718	111@2.156	11.00 RH	1.875	A230
160-1300	2.265	1.271	0.917	0.177	75@1.867	150@1.477	7.60 RH	1.350	A877
160-1301	2.000	1.016	0.806	0.105	18@1.488	39@1.106	8.75 RH	0.920	A877
160-1302	3.420	1.383	0.969	0.207	120@2.810	255@2.210	10.30 RH	2.066	A877
160-1303	3.100	0.983	0.713	0.135	60@2.308	100@1.783	12.30 LH	1.663	A877
160-1304	3.300	1.440	1.026	0.207	132@2.589	230@2.073	9.40 RH	1.954	A877
160-1305	2.635	1.500	1.086	0.207	89@2.240	217@1.670	7.40 RH	1.552	A877
160-1306	3.150	1.131	0.835	0.148	70@2.250	109@1.765	11.25 RH	1.629	A877
160-1307	1.846	1.304	0.930	0.187	56@1.650	170@1.250	6.50 RH	1.180	A877
160-1318	1.958	1.156	0.824	0.167	37@1.750	131@1.350	7.50 RH	1.251	A877
160-1319	1.876	1.264	0.880	0.162 X 0.192	39@1.671	135@1.278	7.15 RH	1.172	A877
160-1338	1.800	1.245T	0.954T	0.148	30@1.600	75@1.300	6.85 RH	1.100	A877
160-1342	1.825	1.095T	0.755T	0.170	69@1.600	174@1.300	6.80 RH	1.100	A230
160-1343	1.835	1.075T	0.748T	0.167	62@1.600	151@1.300	7.25 LH	1.100	A877
160-1347	1.840	1.027	0.731	0.148	41@1.600	105@1.250	7.50 LH	1.100	A877
160-1348	2.235	1.325	0.942	0.192	59@2.000	180@1.550	7.10 RH	1.350	A877
160-1352	1.800	1.048	0.736	0.156	65@1.500	135@1.200	7.20 LH	1.100	A877
160-1358	1.745	0.933	0.707	0.113	17@1.500	51@1.100	7.85 RH	0.900	A230
160-1360	1.630	1.180T	0.854T	0.162	72@1.340	175@0.984	5.80 RH	0.900	A877
160-1363	1.940	1.350T	0.930T	0.178 X 0.212	74@1.700	230@1.260	6.50 RH	1.156	A877
160-1365	1.700	1.185T	0.865T	0.162	68@1.400	138@1.150	6.25 RH	1.000	A877
160-1366	1.557	1.001	0.745	0.128	34.5@1.317	110@0.838	5.70 RH	0.725	A877
160-1372	1.970	1.162	0.866	0.148	40@1.700	92@1.350	7.50 RH	1.050	A230
160-1377	1.860	1.060	0.736	0.162	64@1.600	141@1.350	7.50 LH	1.200	A230
160-1378	1.967	1.318T	0.958T	0.177	85@1.640	200@1.216	6.50 RH	1.163	A877
160-1379	2.385	1.320	0.948	0.187	78@2.000	174@1.650	7.60 RH	1.400	A877
160-1383	2.020	0.994	0.714	0.142	36@1.750	103@1.300	8.25 LH	1.150	A877
160-1393	2.020	0.920	0.650	0.135	30@1.800	97@1.400	9.25 RH	1.300	A229
160-1394	2.185	0.900	0.650	0.125	35@1.800	81@1.400	10.20 RH	1.300	A877
160-1396	2.075	1.154	0.858	0.148	30@1.790	96@1.230	7.50 LH	1.075	A877
160-1397	2.500	1.735	1.285	0.225	61@2.220	194@1.660	6.50 RH	1.377	A877
160-1398	2.025	1.300T	0.961T	0.167	54@1.700	158@1.250	7.00 RH	1.150	A877
160-1401	2.063	0.969	0.685	0.142	50@1.703	100@1.421	9.00 RH	1.313	A877
160-1404	1.982	1.067	0.797	0.135	31@1.671	81@1.219	8.25 LH	1.085	A877
160-1405	2.333	1.471	1.117	0.177	54@1.875	135@1.421	7.50 RH	1.315	A877
160-1406	2.335	1.275	0.920	0.177	46@2.096	162@1.534	7.12 RH	1.360	A877
160-1407	2.140	1.259	0.876	0.192	110@1.800	325@1.200	6.30 RH	1.150	AS33

Valve Spring Numerical Listing

SBI Part #	Free Length	O.D.	I.D.	Wire Size	Closed Position Pressure & Length	Open Position Pressure & Length	Number Of Coils Left Or Right Hand	Solid Height	Material
160-1408	2.115	1.040T	0.770T	0.135	69@1.570	157@1.100	8.00 RH	1.043	AS33SC
160-1409	2.300	1.464	1.080	0.192	85@1.900	211@1.300	6.50 RH	1.200	A877
160-1410	2.050	1.424T	1.010T	0.207	75@1.840	250@1.348	6.30 RH	1.270	A877
160-1411	2.101	1.069T	0.738T	0.138 X 0.165	68@1.676	171@1.134	8.00 RH	1.073	A877
160-1414	4.067	1.194	0.780	0.207	190@3.338	339@2.814	12.80 RH	2.678	J157
160-1416	2.357	1.477	1.063	0.207	83@2.007	215@1.497	6.90 LH	1.370	A877
160-1417	2.580	1.482	1.068	0.207	145@1.980	262@1.530	6.90 LH	1.370	A877
160-1418	2.910	1.153	0.753	0.200	103@2.608	275@2.165	9.80 RH	1.841	A877
160-1424	2.350	1.547	1.193	0.177	73@1.752	130@1.287	6.50 RH	1.150	A877
160-1425	1.736	1.072T	0.742T	0.138 X 0.165	65@1.423	160@1.029	7.20 RH	0.968	AS33
160-1426	1.933	1.010	0.726	0.142	75@1.496	136@1.171	6.80 LH	0.978	A877
160-1429	3.302	1.730	1.347	0.192	65@2.596	130@2.076	8.25 RH	1.590	A877
160-1431	2.212	1.394T	1.020T	0.187	90@1.808	226@1.338	6.60 RH	1.220	AS33
160-1432	1.929	1.149T	0.787T	0.145 X 0.181	75@1.580	185@1.137	7.30 RH	1.050	A877
160-1433	2.313	0.969	0.713	0.128	31@1.937	66@1.625	10.00 RH	1.280	A877
160-1434	2.059	0.978	0.752	0.113	21@1.686	69@1.114	9.00 LH	1.013	A877
160-1435	2.131	1.347	1.013	0.167	60@1.690	156@1.194	6.75 RH	1.115	A877
160-1436	1.900	1.250T	0.860T	0.162 X 0.192	77@1.600	208@1.175	6.75 RH	1.070	A877
160-1437	1.834	1.293T	0.935T	0.182	68@1.600	205@1.170	6.00 LH	1.000	A877
160-1443	2.065	1.165T	0.831T	0.167	95@1.650	218@1.217	7.00 RH	1.115	A877
160-1444	1.709	0.858	0.630	0.114	37.5@1.323	79.4@0.949	8.30 RH	0.917	AS-33
160-1446	2.190	1.392T	1.038T	0.177	36@1.984	210@1.314	6.50 RH	1.150	A877
160-1447	2.560	1.408	1.025	0.192	85@2.067	191@1.500	7.50 RH	1.417	A877
160-1448	2.320	1.125	0.855	0.135	44@1.770	92@1.240	7.50 RH	1.080	A877
160-1449	2.520	1.574	1.190	0.192	100@1.890	165@1.510	6.50 LH	1.250	A877
160-1450	2.148	1.163T	0.773T	0.162 X 0.195	112@1.810	265@1.322	7.95 RH	1.250	A877
160-1451	2.800	1.134	0.760	0.187	49@2.593	193@2.000	10.56 LH	1.928	A877
160-1453	2.660	1.126	0.762	0.182	68@2.380	202@1.830	9.70 LH	1.730	A877
160-1454	3.627	1.134	0.720	0.207	149@3.160	325@2.609	12.35 LH	2.497	A877
160-1456	2.756	1.235	0.835	0.200	126@2.340	281@1.828	9.00 RH	1.758	A877
160-1457	2.216	1.177	0.865	0.156	34@1.941	134@1.291	7.50 RH	1.137	A877
160-1458	2.076	0.995	0.657	0.169	64@1.880	207@1.440	8.15 RH	1.377	A877
160-1459	2.194	1.342	0.968	0.187	38@2.010	184@1.440	7.00 RH	1.280	A877
160-1460	2.425	1.216	0.932	0.142	48@1.800	104@1.230	8.00 RH	1.120	A877
160-1461	3.030	1.720	1.284	0.218	102@2.500	197@2.000	7.15 LH	1.500	A877
160-1462	2.512	0.920	0.680	0.122	50@1.800	104@1.300	10.50 LH	1.281	A877
160-1463	2.523	1.336	0.972	0.182	90@2.000	203@1.425	7.50 RH	1.325	A877
160-1464	2.823	0.991	0.739	0.126	34@2.368	90@1.733	11.50 LH	1.421	CSV+V
160-1466	2.875	1.044	0.808	0.118	17@2.500	54@1.700	10.00 LH	1.200	A877
160-1471	1.615	0.818	0.577	0.120	23@1.475	108@1.005	7.80 RH	0.930	A877
160-1472	1.725	1.163	0.837	0.135 X 0.163	28@1.542	119@0.991	6.40 RH	0.835	A877
160-1475	2.010	1.231	0.891	0.170	88@1.679	206@1.239	6.50 RH	1.161	A877
160-1479	3.886	1.393	0.957	0.218	94@3.464	324@2.535	10.65 RH	2.275	A877
160-1480	1.770	1.042	0.726	0.126 X 0.158	27@1.589	120@1.044	7.20 RH	0.890	A877
160-1482	1.955	1.335	0.995	0.170	30@1.750	120@1.250	7.20 RH	1.200	A230
160-1483	1.930	1.334T	0.964T	0.185	75@1.640	210@1.216	6.60 RH	1.156	A877
160-1484	1.852	1.084	0.744	0.133 X 0.167	28.5@1.700	147@1.060	7.35 RH	0.925	A877
160-1485	2.150	1.034T	0.708T	0.130 X 0.162	79@1.655	171@1.222	8.80 RH	1.156	A877
160-1486	3.262	1.190	0.766	0.170 X 0.212	50@3.006	241@2.236	11.75 RH	2.057	A877
160-1487	1.610	1.063	0.747	0.132 X 0.158	58@1.245	130@0.905	6.85 RH	0.859	A877
160-1488	2.130	1.257T	0.845T	0.165 X 0.206	52@1.937	238@1.372	7.65 RH	1.260	A877
160-1489	2.158	1.315	0.975	0.170	92@1.575	172@1.155	6.60 RH	1.063	A877
160-1490	1.847	0.944	0.648	0.148	58@1.570	165@1.180	8.00 RH	1.143	CSV+V
160-1492	2.175	1.488	1.118	0.185	35@1.984	150@1.346	6.20 RH	1.140	A877
160-1493	1.668	1.239	0.969	0.135	16.7@1.485	75.6@0.937	5.30 RH	0.720	A877
160-1494	2.266	1.032	0.762	0.135	51@1.717	83@1.457	10.0 RH	1.300	A877
160-1495	1.397	0.983	0.755	0.114	16@1.223	59@0.796	5.70 RH	0.650	Cr-Si-V
160-1496	1.672	1.100	0.859	0.120	15@1.456	56@0.941	7.00 RH	0.826	A877
160-1497	1.809	1.491	1.167	0.162	25@1.567	106@1.020	5.60 LH	0.921	A877

Valve Spring Numerical Listing

SBI Part #	Free Length	O.D.	I.D.	Wire Size	Closed Position Pressure & Length	Open Position Pressure & Length	Number Of Coils Left Or Right Hand	Solid Height	Material
160-1498	1.847	1.400	1.046	0.177	40@1.658	177@1.050	5.40 RH	0.948	A877
160-1499	1.674	1.408	1.054	0.177	38@1.506	167@0.958	4.90 RH	0.865	A877
160-1502	1.500	1.094	0.824	0.135	23@1.309	77@0.885	6.25 RH	0.786	A877
160-1503	2.060	0.844	0.660	0.092	16@1.500	32@1.000	9.75 LH	0.910	A877
160-1504	1.696	1.162	0.832	0.162	71@1.437	226@0.905	5.70 RH	0.850	CSV+V
160-1505	1.807	1.192	0.922	0.134	43@1.331	83@0.940	6.20 LH	0.811	A877
160-1506	1.776	0.990T	0.720T	0.135	28@1.582	92@1.205	8.10 RH	1.061	CSV+V
160-1507	2.162	1.500T	1.100T	0.200	48@1.977	220@1.397	6.45 RH	1.264	A877
160-1508	1.678	1.026	0.720	0.123 X 0.153	59@1.280	124@0.886	7.00 RH	0.820	A877
160-1513	1.962	1.452	1.058	0.197	51@1.750	183@1.250	6.15 LH	1.205	A877
160-1514	1.934	1.110	0.798	0.156	29@1.765	135@1.195	7.45 RH	1.158	A877
160-1515	2.112	1.145	0.895	0.125	31@1.640	90@0.875	6.80 LH	0.821	CSV+V
160-1516	1.920	1.355	1.009	0.173	32@1.745	131@1.205	6.25 RH	1.100	A877
160-1517	2.311	1.351	1.005	0.173	41@2.035	206@1.260	7.20 RH	1.206	A877
160-1518	2.067	1.341	0.995	0.173	40@1.825	197@1.165	6.75 RH	1.130	A877
160-1521	1.801	1.189	0.859	0.165	35@1.637	167@1.035	6.30 RH	1.000	CVS+V
160-1523	1.783	1.217	0.877	0.170	29@1.650	169@1.065	6.30 RH	1.032	CSV+V
160-1527	2.518	1.275	0.947	0.162	74@1.930	144@1.504	8.25 RH	1.370	A877
160-1528	1.831	1.010T	0.784T	0.113	16@1.602	59@1.102	8.40 RH	0.940	A877
160-1529	1.893	1.070T	0.820T	0.125	28@1.625	101@1.037	7.50 RH	0.915	A877
160-1531	2.504	1.530	1.136	0.197	46@2.200	187@1.535	8.00 RH	1.499	A877
160-1532	2.350	1.012	0.812	0.100	16@1.725	46@1.025	10.00 LH	0.992	A877
160-1533	2.270	1.490	1.150	0.170	46@1.825	146@1.160	7.00 RH	1.123	A877
160-1536	2.649	0.991	0.765	0.113	29@1.950	67@1.275	11.00 LH	1.245	A877
160-1537	2.565	1.535	1.111	0.178 X 0.212	71@2.100	220@1.375	7.75 RH	1.330	A877
160-1543	1.836	1.195	0.925	0.135	16@1.605	62@1.000	7.25 RH	0.952	A877
160-1545	2.165	1.096	0.826	0.135	26@1.850	79@1.225	8.35 LH	1.160	A877
160-1546	2.300	1.575	1.181	0.197	56@1.950	171@1.350	6.75 RH	1.293	A877
160-1551	2.322	1.060T	0.819T	0.121	23@1.880	69@1.200	9.25 LH	1.146	A877
160-1552	2.491	1.560	1.128	0.177	54@2.015	179@1.225	6.95 RH	1.175	A877
160-1553	2.083	1.058T	0.802T	0.128	19@1.825	78@1.185	8.57 LH	1.150	A877
160-1554	2.199	1.489	1.119	0.185	48@1.875	177@1.245	6.75 RH	1.208	A877
160-1555	1.955	1.020T	0.770T	0.125	17@1.720	75@1.145	8.70 LH	1.108	A877
160-1556	2.051	1.400T	1.046T	0.177	44@1.760	154@1.225	6.75 RH	1.165	A877
160-1557	2.133	1.003T	0.775T	0.114	21@1.740	69@1.075	8.75 LH	1.013	CSV+V
160-1558	2.085	1.401T	1.047T	0.177	33@1.860	169@1.200	6.70 RH	1.150	CSV+V
160-1563	2.431	1.018	0.768	0.125	22@2.050	72@1.400	11.00 LH	1.361	A877
160-1564	1.686	0.966	0.730	0.118	22@1.415	73@0.950	7.60 LH	0.875	A877
160-1565	1.901	1.343	1.003	0.170	42@1.630	143@1.135	6.50 RH	1.066	A877
160-1566	2.423	0.990	0.754	0.118	24@1.960	78@1.200	10.00 LH	1.135	A877
160-1567	2.789	1.468	1.128	0.170	64@2.075	150@1.300	7.30 RH	1.238	CSV+V
160-1568	1.908	0.970T	0.714T	0.128	23@1.675	93@1.115	8.65 RH	1.085	A877
160-1569	1.729	1.262T	0.966T	0.148	42@1.440	137@0.820	5.60 RH	0.770	A877
160-1570	2.386	1.285	0.945	0.170	44@2.055	184@1.300	7.75 RH	1.262	A877
160-1571	2.780	1.272	0.948	0.162	47@2.370	183@1.375	8.40 RH	1.334	A877
160-1572	2.319	1.252	0.968	0.142	70@1.600	138@1.012	6.50 LH	0.970	CSV+V
160-1575	3.185	1.438	1.055	0.189	80@2.643	210@2.008	8.85 RH	1.673	AS-50A
160-1576	1.795	1.132	0.836	0.148	55@1.480	138@1.040	5.85 RH	0.840	CSV+V
160-1577	2.352	0.912	0.702	0.105	36@1.600	74@0.940	8.63 RH	0.900	CSV+V
160-1579	1.760	1.033T	0.717T	0.126 X 0.158	42@1.500	136@0.950	7.45 RH	0.905	A877
160-1580	1.694	0.956T	0.716T	0.120	26@1.425	95@0.925	7.50 RH	0.885	A877
160-1584	1.825	1.227	0.957	0.135	30@1.469	79@1.106	6.50 RH	0.900	A877
160-1585	2.185	1.115	0.791	0.162	74@1.770	168@1.300	7.65 RH	1.210	A877
160-1586	2.371	0.838	0.628	0.105	34@1.685	64@1.213	10.90 RH	1.150	A877
160-1587	2.982	1.119	0.863	0.128	68@1.732	104@1.260	9.20 LH	1.175	A877
160-1588	1.729	1.030T	0.714T	0.126 X 0.158	58@1.378	141@0.945	7.10 RH	0.865	A877
160-1590	1.694	0.947	0.697	0.125	20@1.500	86@0.950	7.35 RH	0.915	A877
160-1591	1.754	0.934	0.698	0.118	22@1.500	91@0.925	7.30 RH	0.870	A877
160-1592	2.608	1.379	1.009	0.185	101@2.000	207@1.492	7.70 RH	1.400	A877-10

Valve Spring Numerical Listing

SBI Part #	Free Length	O.D.	I.D.	Wire Size	Closed Position Pressure & Length	Open Position Pressure & Length	Number Of Coils Left Or Righ Hand	Solid Height	Material
160-1599	1.858	0.927T	0.671T	0.128	53@1.450	115@1.080	8.20 RH	1.030	A877
160-1600	1.761	0.925	0.697	0.114	24@1.450	83@0.900	7.65 RH	0.858	CSV+V
160-1601	2.017	1.014	0.700	0.156	35@1.850	192@1.325	8.25 RH	1.270	A877
160-1602	1.908	1.017T	0.747T	0.135	44@1.550	120@1.000	7.35 RH	0.965	A877
160-1603	1.706	0.917	0.699	0.109	33@1.276	63@0.943	6.90 RH	0.775	A877
160-1604	2.625	1.030	0.789	0.121	31@1.921	42@1.671	11.0 RH	1.330	A877
160-1606	2.182	1.397	1.023	0.187	88@1.769	211@1.237	6.30 RH	1.185	A877
160-1607	2.081	1.245T	0.825T	0.165 X 0.210	90@1.801	254@1.315	7.75 RH	1.258	A877
160-1609SSA	1.915	1.127T	0.749T	0.150 X 0.189	80@1.580	185@1.137	7.00 RH	N/A	A877
160-1610	2.190	1.374	1.017	0.177	37@1.984	205@1.314	6.60 RH	1.140	A877
160-1611	2.530	1.213T	0.789T	0.170 X 0.212	101@2.154	303@1.637	9.50 RH	1.570	CSV+V
160-1612	1.907	1.147T	0.771T	0.150 X 0.188	65@1.650	241@1.075	7.15 RH	1.040	A877
160-1614	1.898	1.144T	0.779T	0.146 X 0.184	104@1.540	235@1.067	7.00 RH	1.075	A877
160-1615	2.330	1.255	0.838	0.154 X 0.200	74@1.900	215@1.225	7.90 RH	1.185	A877
160-1616	1.979	1.020T	0.714T	0.123 X 0.153	89@1.338	146@0.964	7.55 RH	0.905	A877
160-1617	2.075	0.999T	0.693T	0.123 X 0.153	62@1.575	151@1.075	8.75 RH	1.045	A877
160-1619	2.765	0.953	0.669	0.142	71@2.200	156@1.550	10.43 RH	1.460	A877
160-1620	3.035	1.375	0.981	0.197	130@2.350	294@1.700	7.90 LH	1.570	A877
160-1621	2.137	0.952	0.668	0.142	33@1.900	124@1.375	9.55 RH	1.342	A877
160-1622	2.182	0.950	0.666	0.142	55@1.800	141@1.360	9.50 RH	1.330	CSV+V
160-1623	2.098	1.270T	0.845T	0.170 X 0.212	63@1.900	288@1.275	7.30 RH	1.230	CSV+V
160-1624	2.940	1.427	1.063	0.182	105@2.150	206@1.500	8.00 RH	1.430	A877
160-1625	1.700	0.915T	0.659T	0.128	38@1.450	126@0.950	7.45 RH	0.915	A877-10
160-1627	2.134	1.260T	0.807T	0.176 X 0.223	100@1.870	326@1.299	7.25 RH	1.252	CSV+V
160-1628	2.024	1.272T	0.826T	0.178 X 0.223	100@1.771	326@1.220	7.00 RH	1.181	CSV+V
160-1629	2.445	1.390	1.007	0.192	110@1.920	235@1.413	7.20 RH	1.319	A877
160-1631	2.176	0.932T	0.670T	0.113 X 0.131	47@1.600	108@1.100	9.50 RH	1.050	A877-10
160-1632	1.637	0.895T	0.654T	0.121	22@1.475	95@1.025	8.10 RH	0.960	A877-10
160-1633	1.674	0.912T	0.662T	0.125	39@1.380	109@0.980	7.70 RH	0.945	A877-10
160-1634	1.656	1.004	0.720	0.142	37@1.450	144@0.950	6.50 RH	0.900	A877-10
160-1635	2.090	1.159	0.863	0.148	42@1.756	88@1.412	7.10 RH	1.060	A230
160-1636	3.930	1.109	0.755	0.177	81@3.400	241@2.450	13.40 RH	2.350	A877
160-1637	3.860	1.138	0.755	0.192	123@3.300	325@2.450	12.50 RH	2.380	A877
160-1638	1.382	0.966	0.738	0.114	17@1.197	61@0.750	6.00 RH	0.700	A877
160-1639	1.830	0.836	0.608	0.114	30@1.550	94@1.000	8.20 RH	0.940	CSV+V
160-1640	1.835	0.823	0.613	0.105	20@1.550	68@0.975	8.75 RH	0.930	A877
160-1641	2.795	1.775	1.325	0.225	67@2.500	313@1.450	6.20 RH	1.350	CSV+V
160-1642SSA	2.370	1.299T	0.854T	0.178 X 0.222	117@1.988	332@1.466	8.35 RH	1.429	CSV
160-1643	1.961	1.052	0.7850	0.135	41@1.600	109@1.075	7.45 RH	1.030	CSV+V
160-1644	2.466	1.116	0.786	0.165	83@2.000	183@1.475	8.75 RH	1.435	CSV+V
160-1645	2.016	1.275T	0.979T	0.148	70@1.424	140@0.875	6.00 RH	0.815	CSV
160-1646	1.665	0.862	0.644	0.109	44.5@1.181	79@0.847	6.95 RH	0.775	A877-10
160-1647	2.455	1.280	0.946	0.167	80@1.900	171@1.300	7.30 RH	1.260	A877
160-1648	2.788	1.302	0.972	0.165	73@2.100	154@1.450	8.50 RH	1.385	A877
160-1649	1.810	0.858	0.613	0.122	45@1.500	124@0.975	7.75 RH	0.930	A877
160-1650	2.875	1.434	0.947	0.187	150@1.928	230@1.473	7.00 RH	1.316	A877-10
160-1651	2.440	1.242	0.888	0.177	78@2.000	183@1.450	8.10 RH	1.375	A877-10
160-1652	2.655	1.240	0.886	0.177	67@2.205	147@1.700	9.40 RH	1.660	A877-10
160-1653	2.255	1.300	1.024	0.138	31@1.650	77@1.150	8.00 RH	1.105	A877-10
160-1656	2.055	1.002T	0.686T	0.126 X 0.158	67@1.575	156@1.169	9.20 RH	1.130	A877-10
160-1658	1.927	0.948T	0.707T	0.121	26.5@1.600	80.5@1.100	9.00 RH	1.050	A877-10
160-1659	2.040	0.930T	0.704T	0.113	22.5@1.650	68.5@1.125	9.90 RH	1.090	A877-10
160-1660	1.739	1.121	0.845	0.138	30.5@1.450	86.5@1.050	7.20 RH	0.990	A877-10
160-1661	1.580	1.017	0.767	0.125	26.5@1.300	73.5@0.950	7.25 RH	0.905	A877-10
160-1662	1.462	0.905	0.669	0.118	23.5@1.250	67.5@0.925	7.30 RH	0.875	A877-10
160-1663	2.006	1.253	0.941	0.156	41@1.675	123@1.175	7.25 RH	1.140	A877-10
160-1664	1.880	1.200	0.904	0.148	37@1.600	144@1.025	6.65 RH	0.980	A877-10
160-1665	1.760	1.220	0.906	0.157	38@1.515	117@1.161	6.75 RH	1.045	SWOSC-V
160-1666	2.070	0.915T	0.631T	0.114 X 0.142	49@1.650	132@1.100	9.15 RH	1.030	A877-10

Valve Spring Numerical Listing

SBI Part #	Free Length	O.D.	I.D.	Wire Size	Closed Position Pressure & Length	Open Position Pressure & Length	Number Of Coils Left Or Righ Hand	Solid Height	Material
160-1667	1.975	0.988T	0.748T	0.120	32@1.550	88@1.000	8.10 RH	0.925	A877-10
160-1669	3.070	1.436	1.062	0.187	172@2.000	260@1.492	8.00 RH	1.430	A877-10
160-1670	2.981	0.817	0.607	0.105	41.5@2.100	74.5@1.450	12.10 LH	1.290	A877-10
160-1671	3.174	1.151	0.867	0.142	84.5@2.100	148@1.400	9.20 RH	1.345	A877-10
160-1672	2.985	0.826	0.616	0.105	35.5@2.200	78.5@1.350	11.90 LH	1.265	A877-10
160-1673	3.097	1.162	0.866	0.148	85.5@2.100	156.5@1.375	9.05 RH	1.325	A877-10
160-1674	1.998	1.019T	0.749T	0.135	48@1.600	125@1.025	7.55 RH	0.980	A877-10
160-1675	1.988	1.043T	0.759T	0.142	56.5@1.600	141.5@1.070	7.26 RH	0.980	A877-10
160-1676	2.840	1.210	0.898	0.156	62@2.200	139@1.500	9.25 LH	1.455	A877-10
160-1677	3.017	1.720	1.284	0.218	122@2.300	263@1.600	7.30 RH	1.555	A877-10
160-1678	4.010	1.140	0.786	0.177	100@3.300	245@2.400	13.35 RH	2.355	A877-10
160-1679	4.220	1.140	0.786	0.177	132@3.300	268@2.450	13.44 RH	2.375	A877-10
160-1680	1.768	0.961	0.701	0.130	45@1.433	108@1.039	7.15 LH	0.898	HT
160-1681	1.680	0.969	0.701	0.134	39@1.433	108@1.039	6.90 LH	0.898	CrSi
160-1682	1.834	0.976	0.701	0.138	62@1.433	130@1.051	7.50 RH	0.992	HT
160-1683	1.812	1.077	0.742	0.134 X 0.167	46.5@1.550	180@0.975	6.95 RH	0.930	OTEVA 91
160-1684	1.877	0.972T	0.710T	0.131	29.5@1.600	109@1.100	8.60 RH	1.070	A877-10
160-1685	1.852	0.985T	0.709T	0.138	36.5@1.600	128.5@1.125	8.00 RH	1.075	A877-10
160-1686	1.928	0.949	0.687	0.131	24@1.700	79.5@1.200	8.80 RH	1.160	A877-10
160-1688	2.253	1.276T	0.858T	0.209	87@1.900	272@1.375	8.10 RH	1.305	CSV
160-1689	2.218	1.311	0.917	0.158 X 0.197	104@1.700	231@1.146	7.00 RH	1.080	OTEVA 91
160-1692	1.872	0.896	0.675	0.110	42@1.402	79@0.980	7.20 RH	0.795	SWOSC-VHV
160-1694	2.890	1.492	1.075	0.209	130@2.320	247@1.811	7.75 RH	1.618	SWOSC-V
160-1695	2.556	1.191	0.876	0.157	47@2.170	115@1.685	8.40 RH	1.323	SWOSC-V
160-1696	2.460	1.037	0.762	0.138	37@2.102	89@1.596	8.80 RH	1.213	SWOSC-V
160-1697	2.779	1.455	1.085	0.185	64@2.362	154@1.778	7.20 RH	1.332	SWOSC-V
160-1698	2.587	0.852	0.656	0.098	16@2.134	38@1.527	10.80 LH	1.063	SWOSC-V
160-1699	3.055	1.256	0.980	0.138	31.5@2.512	73@1.791	8.80 RH	1.209	SWOSC-V
160-1700	1.783	1.004T	0.725T	0.142	59@1.476	144@1.031	5.30 RH	0.992	SWOSC-VHV
160-1701	2.315	1.231T	0.676T	0.157	37@2.014	88@1.690	5.90 RH	1.244	SWOSC-V
160-1702	2.500	1.105	0.791	0.157	48@2.170	125@1.658	8.30 RH	1.323	SWOC-V
360-1010	2.023	1.260	0.876	0.192	118@1.700	318@1.210	6.50 RH	1.160	CS
360-1012	2.140	1.260	0.885	0.192	110@1.800	325@1.200	6.30 RH	1.160	CS
360-1013	2.180	1.260	0.876	0.192	130@1.800	350@1.200	6.20 RH	1.160	CS
360-1016	2.235	1.460	0.800	0.192	120@1.875	395@1.175	5.80 LH	1.080	CS
360-1020	2.035	1.058	0.743	0.157 x 0.126	110@1.360	159@1.060	6.78 RH	0.854	SWOSC-VSB
360-1021	2.134	0.994	0.655	0.169	84@1.880	230@1.440	8.21 RH	1.390	SWOSC-V
360-1022	2.083	1.185	0.850	0.167	115@1.614	250@1.064	6.20 RH	1.034	SWOSC-VHV

Valve Spring Progressive Size Listing By O.D.

SBI Part #	O.D.	I.D.	Free Length	Wire Size	Closed Position Pressure & Length	Open Position Pressure & Length	Number Of Coils Left Or Right Hand	Solid Height	Material
160-1185	0.803	0.533	2.090	0.135	32@1.930	110@1.527	10.25 RH	1.380	A877
160-1670	0.817	0.607	2.981	0.105	41.5@2.100	74.5@1.450	12.10 LH	1.290	A877-10
160-1471	0.818	0.577	1.615	0.120	23@1.475	108@1.005	7.80 RH	0.930	A877
160-1640	0.823	0.613	1.835	0.105	20@1.550	68@0.975	8.75 RH	0.930	A877
160-1672	0.826	0.616	2.985	0.105	35.5@2.200	78.5@1.350	11.90 LH	1.265	A877-10
160-1187	0.829	0.533	2.060	0.148	33@1.930	100@1.700	10.50 RH	1.554	A877
160-1639	0.836	0.608	1.830	0.114	30@1.550	94@1.000	8.20 RH	0.940	CSV+V
160-1586	0.838	0.628	2.371	0.105	34@1.685	64@1.213	10.90 RH	1.150	A877
160-1503	0.844	0.660	2.060	0.092	16@1.500	32@1.000	9.75 LH	0.910	A877
160-1271	0.847	0.623	2.106	0.112	40@1.550	69@1.250	10.10 RH	1.115	J157
160-1698	0.852	0.656	2.587	0.098	16@2.134	38@1.527	10.80 LH	1.063	SWOSC-V
160-1649	0.858	0.613	1.810	0.122	45@1.500	124@0.975	7.75 RH	0.930	A877
160-1444	0.858	0.630	1.709	0.114	37.5@1.323	79.4@0.949	8.30 RH	0.917	AS-33
160-1646	0.862	0.644	1.665	0.109	44.5@1.181	79@0.847	6.95 RH	0.775	A877-10
160-1238	0.877	0.607	2.277	0.135	69@1.850	133@1.550	11.00 LH	1.477	A877
160-1632	0.895T	0.654T	1.637	0.121	22@1.475	95@1.025	8.10 RH	0.960	A877-10
160-1236	0.896	0.656	2.020	0.120	35@1.700	87@1.300	9.25 LH	1.105	A877
160-1692	0.896	0.675	1.872	0.110	42@1.402	79@0.980	7.20 RH	0.795	SWOSC-VHV
160-1394	0.900	0.650	2.185	0.125	35@1.800	81@1.400	10.20 RH	1.300	A877
160-1662	0.905	0.669	1.462	0.118	23.5@1.250	67.5@0.925	7.30 RH	0.875	A877-10
160-1253	0.911	0.655	1.620	0.128	25@1.450	82@1.100	8.00 LH	1.000	A877
160-1252	0.911	0.670	1.796	0.121	44@1.366	72@1.097	8.50 RH	0.983	A877
160-1577	0.912	0.702	2.352	0.105	36@1.600	74@0.940	8.63 RH	0.900	CSV+V
160-1633	0.912T	0.662T	1.674	0.125	39@1.380	109@0.980	7.70 RH	0.945	A877-10
160-1261	0.914	0.644	1.917	0.135	42@1.650	116@1.300	9.00 RH	1.255	A877
160-1666	0.915T	0.631T	2.070	0.114 X 0.142	49@1.650	132@1.100	9.15 RH	1.030	A877-10
160-1625	0.915T	0.659T	1.700	0.128	38@1.450	126@0.950	7.45 RH	0.915	A877-10
160-1603	0.917	0.699	1.706	0.109	33@1.276	63@0.943	6.90 RH	0.775	A877
160-1393	0.920	0.650	2.020	0.135	30@1.800	97@1.400	9.25 RH	1.300	A229
160-1462	0.920	0.680	2.512	0.122	50@1.800	104@1.300	10.50 LH	1.281	A877
160-1600	0.925	0.697	1.761	0.114	24@1.450	83@0.900	7.65 RH	0.858	CSV+V
160-1599	0.927T	0.671T	1.858	0.128	53@1.450	115@1.080	8.20 RH	1.030	A877
160-1659	0.930T	0.704T	2.040	0.113	22.5@1.650	68.5@1.125	9.90 RH	1.090	A877-10
160-1631	0.932T	0.670T	2.176	0.113 X 0.131	47@1.600	108@1.100	9.50 RH	1.050	A877-10
160-1358	0.933	0.707	1.745	0.113	17@1.500	51@1.100	7.85 RH	0.900	A230
160-1591	0.934	0.698	1.754	0.118	22@1.500	91@0.925	7.30 RH	0.870	A877
160-1262	0.936	0.640	1.943	0.148	47@1.700	141@1.350	9.10 LH	1.299	A877
160-1490	0.944	0.648	1.847	0.148	58@1.570	165@1.180	8.00 RH	1.143	CSV+V
160-1590	0.947	0.697	1.694	0.125	20@1.500	86@0.950	7.35 RH	0.915	A877
160-1658	0.948T	0.707T	1.927	0.121	26.5@1.600	80.5@1.100	9.00 RH	1.050	A877-10
160-1686	0.949	0.687	1.928	0.131	24@1.700	79.5@1.200	8.80 RH	1.160	A877-10
160-1622	0.950	0.666	2.182	0.142	55@1.800	141@1.360	9.50 RH	1.330	CSV+V
160-1186	0.951	0.655	1.970	0.148	35@1.800	115@1.397	8.80 RH	1.300	AS33
160-1621	0.952	0.668	2.137	0.142	33@1.900	124@1.375	9.55 RH	1.342	A877
160-1619	0.953	0.669	2.765	0.142	71@2.200	156@1.550	10.43 RH	1.460	A877
160-1580	0.956T	0.716T	1.694	0.120	26@1.425	95@0.925	7.50 RH	0.885	A877
160-1096	0.960	0.710	1.720	0.125	37@1.350	62@1.100	8.00 RH	1.060	A877
160-1680	0.961	0.701	1.768	0.130	45@1.433	108@1.039	7.15 LH	0.898	HT
160-1119	0.963	0.723	1.760	0.120	26@1.483	57@1.153	8.00 LH	0.960	A877
160-1564	0.966	0.730	1.686	0.118	22@1.415	73@0.950	7.60 LH	0.875	A877
160-1638	0.966	0.738	1.382	0.114	17@1.197	61@0.750	6.00 RH	0.700	A877
160-1401	0.969	0.685	2.063	0.142	50@1.703	100@1.421	9.00 RH	1.313	A877
160-1681	0.969	0.701	1.680	0.134	39@1.433	108@1.039	6.90 LH	0.898	CrSi
160-1433	0.969	0.713	2.313	0.128	31@1.937	66@1.625	10.00 RH	1.280	A877
160-1568	0.970T	0.714T	1.908	0.128	23@1.675	93@1.115	8.65 RH	1.085	A877
160-1684	0.972T	0.710T	1.877	0.131	29.5@1.600	109@1.100	8.60 RH	1.070	A877-10
160-1682	0.976	0.701	1.834	0.138	62@1.433	130@1.051	7.50 RH	0.992	HT
160-1434	0.978	0.752	2.059	0.113	21@1.686	69@1.114	9.00 LH	1.013	A877
160-1013	0.980	0.754	1.770	0.113	27@1.380	56@0.960	7.50 LH	0.850	A877

Valve Spring Progressive Size Listing By O.D.

SBI Part #	O.D.	I.D.	Free Length	Wire Size	Closed Position Pressure & Length	Open Position Pressure & Length	Number Of Coils Left Or Right Hand	Solid Height	Material
160-1303	0.983	0.713	3.100	0.135	60@2.308	100@1.783	12.30 LH	1.663	A877
160-1495	0.983	0.755	1.397	0.114	16@1.223	59@0.796	5.70 RH	0.650	Cr-Si-V
160-1685	0.985T	0.709T	1.852	0.138	36.5@1.600	128.5@1.125	8.00 RH	1.075	A877-10
160-1667	0.988T	0.748T	1.975	0.120	32@1.550	88@1.000	8.10 RH	0.925	A877-10
160-1207	0.989	0.739	2.678	0.125	40@1.978	77@1.416	10.78 LH	1.316	AS33SC
160-1566	0.990	0.754	2.423	0.118	24@1.960	78@1.200	10.00 LH	1.135	A877
160-1506	0.990T	0.720T	1.776	0.135	28@1.582	92@1.205	8.10 RH	1.061	CSV+V
160-1464	0.991	0.739	2.823	0.126	34@2.368	90@1.733	11.50 LH	1.421	CSV+V
160-1536	0.991	0.765	2.649	0.113	29@1.950	67@1.275	11.00 LH	1.245	A877
360-1021	0.994	0.655	2.134	0.169	84@1.880	230@1.440	8.21 RH	1.390	SWOSC-V
160-1383	0.994	0.714	2.020	0.142	36@1.750	103@1.300	8.25 LH	1.150	A877
160-1458	0.995	0.657	2.076	0.169	64@1.880	207@1.440	8.15 RH	1.377	A877
160-1617	0.999T	0.693T	2.075	0.123 X 0.153	62@1.575	151@1.075	8.75 RH	1.045	A877
160-1366	1.001	0.745	1.557	0.128	34.5@1.317	110@0.838	5.70 RH	0.725	A877
160-1656	1.002T	0.686T	2.055	0.126 X 0.158	67@1.575	156@1.169	9.20 RH	1.130	A877-10
160-1557	1.003T	0.775T	2.133	0.114	21@1.740	69@1.075	8.75 LH	1.013	CSV+V
160-1634	1.004	0.720	1.656	0.142	37@1.450	144@0.950	6.50 RH	0.900	A877-10
160-1700	1.004T	0.725T	1.783	0.142	59@1.476	144@1.031	5.30 RH	0.992	SWOSC-VHV
160-1289	1.007	0.737	2.281	0.135	31@1.945	87@1.396	9.50 RH	1.280	A877
160-1426	1.010	0.726	1.933	0.142	75@1.496	136@1.171	6.80 LH	0.978	A877
160-1528	1.010T	0.784T	1.831	0.113	16@1.602	59@1.102	8.40 RH	0.940	A877
160-1532	1.012	0.812	2.350	0.100	16@1.725	46@1.025	10.00 LH	0.992	A877
160-1601	1.014	0.700	2.017	0.156	35@1.850	192@1.325	8.25 RH	1.270	A877
160-1301	1.016	0.806	2.000	0.105	18@1.488	39@1.106	8.75 RH	0.920	A877
160-1661	1.017	0.767	1.580	0.125	26.5@1.300	73.5@0.950	7.25 RH	0.905	A877-10
160-1602	1.017T	0.747T	1.908	0.135	44@1.550	120@1.000	7.35 RH	0.965	A877
160-1563	1.018	0.768	2.431	0.125	22@2.050	72@1.400	11.00 LH	1.361	A877
160-1674	1.019T	0.749T	1.998	0.135	48@1.600	125@1.025	7.55 RH	0.980	A877-10
160-1616	1.020T	0.714T	1.979	0.123 X 0.153	89@1.338	146@0.964	7.55 RH	0.905	A877
160-1555	1.020T	0.770T	1.955	0.125	17@1.720	75@1.145	8.70 LH	1.108	A877
160-1508	1.026	0.720	1.678	0.123 X 0.153	59@1.280	124@0.886	7.00 RH	0.820	A877
160-1347	1.027	0.731	1.840	0.148	41@1.600	105@1.250	7.50 LH	1.100	A877
160-1604	1.030	0.789	2.625	0.121	31@1.921	42@1.671	11.0 RH	1.330	A877
160-1588	1.030T	0.714T	1.729	0.126 X 0.158	58@1.378	141@0.945	7.10 RH	0.865	A877
160-1494	1.032	0.762	2.266	0.135	51@1.717	83@1.457	10.0 RH	1.300	A877
160-1579	1.033T	0.717T	1.760	0.126 X 0.158	42@1.500	136@0.950	7.45 RH	0.905	A877
160-1485	1.034T	0.708T	2.150	0.130 X 0.162	79@1.655	171@1.222	8.80 RH	1.156	A877
160-1696	1.037	0.762	2.460	0.138	37@2.102	89@1.596	8.80 RH	1.213	SWOSC-V
160-1408	1.040T	0.770T	2.115	0.135	69@1.570	157@1.100	8.00 RH	1.043	AS33SC
160-1480	1.042	0.726	1.770	0.126 X 0.158	27@1.589	120@1.044	7.20 RH	0.890	A877
160-1675	1.043T	0.759T	1.988	0.142	56.5@1.600	141.5@1.070	7.26 RH	0.980	A877-10
160-1466	1.044	0.808	2.875	0.118	17@2.500	54@1.700	10.00 LH	1.200	A877
160-1352	1.048	0.736	1.800	0.156	65@1.500	135@1.200	7.20 LH	1.100	A877
160-1218	1.050	0.794	1.920	0.128	20@1.672	70@1.072	8.00 RH	0.988	A877
160-1643	1.052	0.7850	1.961	0.135	41@1.600	109@1.075	7.45 RH	1.030	CSV+V
360-1020	1.058	0.743	2.035	0.157 x 0.126	110@1.360	159@1.060	6.78 RH	0.854	SWOSC-VSB
160-1156	1.058	0.788	2.112	0.135	40@1.666	95@1.214	8.67 LH	1.174	A877
160-1553	1.058T	0.802T	2.083	0.128	19@1.825	78@1.185	8.57 LH	1.150	A877
160-1377	1.060	0.736	1.860	0.162	64@1.600	141@1.350	7.50 LH	1.200	A230
160-1136	1.060	0.776	1.760	0.142	31@1.566	102@1.114	6.75 LH	0.950	A877
160-1551	1.060T	0.819T	2.322	0.121	23@1.880	69@1.200	9.25 LH	1.146	A877
160-1487	1.063	0.747	1.610	0.132 X 0.158	58@1.245	130@0.905	6.85 RH	0.859	A877
160-1241	1.065	0.795	1.882	0.135	23@1.650	65@1.300	7.40 RH	1.005	A877
160-1404	1.067	0.797	1.982	0.135	31@1.671	81@1.219	8.25 LH	1.085	A877
160-1411	1.069T	0.738T	2.101	0.138 X 0.165	68@1.676	171@1.134	8.00 RH	1.073	A877
160-1529	1.070T	0.820T	1.893	0.125	28@1.625	101@1.037	7.50 RH	0.915	A877
160-1269	1.072	0.760	1.660	0.156	64@1.400	159@1.050	6.40 LH	0.982	A877
160-1425	1.072T	0.742T	1.736	0.138 X 0.165	65@1.423	160@1.029	7.20 RH	0.968	AS33
160-1343	1.075T	0.748T	1.835	0.167	62@1.600	151@1.300	7.25 LH	1.100	A877

Valve Spring Progressive Size Listing By O.D.

SBI Part #	O.D.	I.D.	Free Length	Wire Size	Closed Position Pressure & Length	Open Position Pressure & Length	Number Of Coils Left Or Right Hand	Solid Height	Material
160-1683	1.077	0.742	1.812	0.134 X 0.167	46.5@1.550	180@0.975	6.95 RH	0.930	OTEVA 91
160-1285	1.078	0.794	2.343	0.142	35@1.953	85@1.503	10.25 RH	1.460	A230
160-1295	1.082	0.798	3.036	0.142	39@2.531	94@2.031	13.00 LH	1.812	A877
160-1484	1.084	0.744	1.852	0.133 X 0.167	28.5@1.700	147@1.060	7.35 RH	0.925	A877
160-1502	1.094	0.824	1.500	0.135	23@1.309	77@0.885	6.25 RH	0.786	A877
160-1342	1.095T	0.755T	1.825	0.170	69@1.600	174@1.300	6.80 RH	1.100	A230
160-1545	1.096	0.826	2.165	0.135	26@1.850	79@1.225	8.35 LH	1.160	A877
160-1496	1.100	0.859	1.672	0.120	15@1.456	56@0.941	7.00 RH	0.826	A877
160-1702	1.105	0.791	2.500	0.157	48@2.170	125@1.658	8.30 RH	1.323	SWOC-V
160-1636	1.109	0.755	3.930	0.177	81@3.400	241@2.450	13.40 RH	2.350	A877
160-1514	1.110	0.798	1.934	0.156	29@1.765	135@1.195	7.45 RH	1.158	A877
160-1585	1.115	0.791	2.185	0.162	74@1.770	168@1.300	7.65 RH	1.210	A877
160-1644	1.116	0.786	2.466	0.165	83@2.000	183@1.475	8.75 RH	1.435	CSV+V
160-1587	1.119	0.863	2.982	0.128	68@1.732	104@1.260	9.20 LH	1.175	A877
160-1005	1.121	0.809	1.480	0.156	50@1.263	123@0.953	6.00 RH	0.860	A877
160-1660	1.121	0.845	1.739	0.138	30.5@1.450	86.5@1.050	7.20 RH	0.990	A877-10
160-1448	1.125	0.855	2.320	0.135	44@1.770	92@1.240	7.50 RH	1.080	A877
160-1453	1.126	0.762	2.660	0.182	68@2.380	202@1.830	9.70 LH	1.730	A877
160-1609SSA	1.127T	0.749T	1.915	0.150 X 0.189	80@1.580	185@1.137	7.00 RH	N/A	A877
160-1306	1.131	0.835	3.150	0.148	70@2.250	109@1.765	11.25 RH	1.629	A877
160-1576	1.132	0.836	1.795	0.148	55@1.480	138@1.040	5.85 RH	0.840	CSV+V
160-1196	1.132	0.882	2.179	0.125	20@1.791	51@1.187	9.10 LH	1.106	AS25
160-1454	1.134	0.720	3.627	0.207	149@3.160	325@2.609	12.35 LH	2.497	A877
160-1451	1.134	0.760	2.800	0.187	49@2.593	193@2.000	10.56 LH	1.928	A877
160-1637	1.138	0.755	3.860	0.192	123@3.300	325@2.450	12.50 RH	2.380	A877
160-1678	1.140	0.786	4.010	0.177	100@3.300	245@2.400	13.35 RH	2.355	A877-10
160-1679	1.140	0.786	4.220	0.177	132@3.300	268@2.450	13.44 RH	2.375	A877-10
160-1614	1.144T	0.779T	1.898	0.146 X 0.184	104@1.540	235@1.067	7.00 RH	1.075	A877
160-1515	1.145	0.895	2.112	0.125	31@1.640	90@0.875	6.80 LH	0.821	CSV+V
160-1612	1.147T	0.771T	1.907	0.150 X 0.188	65@1.650	241@1.075	7.15 RH	1.040	A877
160-1432	1.149T	0.787T	1.929	0.145 X 0.181	75@1.580	185@1.137	7.30 RH	1.050	A877
160-1194	1.150T	0.760	2.190	0.197	94@1.900	221@1.550	7.50 RH	1.450	A877
160-1671	1.151	0.867	3.174	0.142	84.5@2.100	148@1.400	9.20 RH	1.345	A877-10
160-1418	1.153	0.753	2.910	0.200	103@2.608	275@2.165	9.80 RH	1.841	A877
160-1396	1.154	0.858	2.075	0.148	30@1.790	96@1.230	7.50 LH	1.075	A877
160-1318	1.156	0.824	1.958	0.167	37@1.750	131@1.350	7.50 RH	1.251	A877
160-1635	1.159	0.863	2.090	0.148	42@1.756	88@1.412	7.10 RH	1.060	A230
160-1504	1.162	0.832	1.696	0.162	71@1.437	226@0.905	5.70 RH	0.850	CSV+V
160-1372	1.162	0.866	1.970	0.148	40@1.700	92@1.350	7.50 RH	1.050	A230
160-1673	1.162	0.866	3.097	0.148	85.5@2.100	156.5@1.375	9.05 RH	1.325	A877-10
160-1472	1.163	0.837	1.725	0.135 X 0.163	28@1.542	119@0.991	6.40 RH	0.835	A877
160-1450	1.163T	0.773T	2.148	0.162 X 0.195	112@1.810	265@1.322	7.95 RH	1.250	A877
160-1443	1.165T	0.831T	2.065	0.167	95@1.650	218@1.217	7.00 RH	1.115	A877
160-1457	1.177	0.865	2.216	0.156	34@1.941	134@1.291	7.50 RH	1.137	A877
160-1360	1.180T	0.854T	1.630	0.162	72@1.340	175@0.984	5.80 RH	0.900	A877
360-1022	1.185	0.850	2.083	0.167	115@1.614	250@1.064	6.20 RH	1.034	SWOSC-VHV
160-1365	1.185T	0.865T	1.700	0.162	68@1.400	138@1.150	6.25 RH	1.000	A877
160-1114	1.188	0.864	2.533	0.162	53@2.109	120@1.750	9.37 LH	1.520	A877
160-1521	1.189	0.859	1.801	0.165	35@1.637	167@1.035	6.30 RH	1.000	CVS+V
160-1486	1.190	0.766	3.262	0.170 X 0.212	50@3.006	241@2.236	11.75 RH	2.057	A877
160-1695	1.191	0.876	2.556	0.157	47@2.170	115@1.685	8.40 RH	1.323	SWOSC-V
160-1505	1.192	0.922	1.807	0.134	43@1.331	83@0.940	6.20 LH	0.811	A877
160-1414	1.194	0.780	4.067	0.207	190@3.338	339@2.814	12.80 RH	2.678	J157
160-1055	1.195	0.871	1.760	0.162	55@1.550	125@1.200	5.90 RH	1.092	A877
160-1543	1.195	0.925	1.836	0.135	16@1.605	62@1.000	7.25 RH	0.952	A877
160-1664	1.200	0.904	1.880	0.148	37@1.600	144@1.025	6.65 RH	0.980	A877-10
160-1272	1.210	0.886	2.250	0.162	90@1.700	152@1.400	7.80 LH	1.238	J157
160-1676	1.210	0.898	2.840	0.156	62@2.200	139@1.500	9.25 LH	1.455	A877-10
160-1611	1.213T	0.789T	2.530	0.170 X 0.212	101@2.154	303@1.637	9.50 RH	1.570	CSV+V

Valve Spring Progressive Size Listing By O.D.

SBI Part #	O.D.	I.D.	Free Length	Wire Size	Closed Position Pressure & Length	Open Position Pressure & Length	Number Of Coils Left Or Right Hand	Solid Height	Material
160-1460	1.216	0.932	2.425	0.142	48@1.800	104@1.230	8.00 RH	1.120	A877
160-1523	1.217	0.877	1.783	0.170	29@1.650	169@1.065	6.30 RH	1.032	CSV+V
160-1117	1.220	0.880	2.030	0.170	80@1.696	160@1.366	7.25 RH	1.190	A877
160-1125	1.220	0.880	2.050	0.170	74@1.696	164@1.306	6.50 RH	1.125	A877
160-1121	1.220	0.880	2.250	0.170	63@1.946	160@1.496	8.20 RH	1.394	A877
160-1665	1.220	0.906	1.760	0.157	38@1.515	117@1.161	6.75 RH	1.045	SWOSC-V
160-1025	1.221	0.875	2.000	0.173	45@1.800	130@1.400	7.26 RH	1.230	A877
160-1219	1.222	0.898	2.760	0.162	54@2.300	147@1.700	9.30 RH	1.521	A230
160-1142	1.225	0.885	1.860	0.170	60@1.640	166@1.250	6.50 LH	1.105	A877
160-1584	1.227	0.957	1.825	0.135	30@1.469	79@1.106	6.50 RH	0.900	A877
160-1009	1.230	0.876	1.910	0.177	92@1.610	235@1.160	6.60 RH	1.130	A877
160-1144	1.230	0.876	2.048	0.177	88@1.700	225@1.250	6.60 RH	1.150	AS33
160-1475	1.231	0.891	2.010	0.170	88@1.679	206@1.239	6.50 RH	1.161	A877
160-1083	1.231	0.899	2.093	0.166	97@1.679	198@1.240	7.00 RH	1.161	A877
160-1701	1.231T	0.676T	2.315	0.157	37@2.014	88@1.690	5.90 RH	1.244	SWOSC-V
160-1086	1.232	0.878	2.059	0.177	105@1.610	214@1.220	6.80 RH	1.146	A877
160-1099	1.232	0.900	1.780	0.166	75@1.440	165@1.040	6.00 RH	0.960	AS33
160-1148	1.234	0.880	1.900	0.177	61@1.660	184@1.270	6.70 RH	1.170	A877
160-1456	1.235	0.835	2.756	0.200	126@2.340	281@1.828	9.00 RH	1.758	A877
160-1115	1.239	0.885	1.970	0.177	74@1.660	155@1.400	7.00 LH	1.240	A877
160-1493	1.239	0.969	1.668	0.135	16.7@1.485	75.6@0.937	5.30 RH	0.720	A877
160-1652	1.240	0.886	2.655	0.177	67@2.205	147@1.700	9.40 RH	1.660	A877-10
160-1651	1.242	0.888	2.440	0.177	78@2.000	183@1.450	8.10 RH	1.375	A877-10
160-1607	1.245T	0.825T	2.081	0.165 X 0.210	90@1.801	254@1.315	7.75 RH	1.258	A877
160-1338	1.245T	0.954T	1.800	0.148	30@1.600	75@1.300	6.85 RH	1.100	A877
160-1266	1.247	0.893	2.040	0.177	83@1.700	197@1.270	6.70 RH	1.200	AS33
160-1085	1.249	0.895	1.981	0.177	80@1.720	210@1.320	7.00 RH	1.250	A877
160-1184	1.250	0.867	2.470	0.192	78@2.200	183@1.800	8.20 RH	1.632	A877
160-1436	1.250T	0.860T	1.900	0.162 X 0.192	77@1.600	208@1.175	6.75 RH	1.070	A877
160-1267	1.250T	0.876T	1.960	0.187	50@1.800	214@1.318	6.50 RH	1.210	A877
160-1112	1.250T	0.890T	1.710	0.177	79@1.437	208@1.030	5.80 RH	0.990	A877
160-1572	1.252	0.968	2.319	0.142	70@1.600	138@1.012	6.50 LH	0.970	CSV+V
160-1663	1.253	0.941	2.006	0.156	41@1.675	123@1.175	7.25 RH	1.140	A877-10
160-1615	1.255	0.838	2.330	0.154 X 0.200	74@1.900	215@1.225	7.90 RH	1.185	A877
160-1699	1.256	0.980	3.055	0.138	31.5@2.512	73@1.791	8.80 RH	1.209	SWOSC-V
160-1177	1.257	0.903	2.685	0.177	70@2.250	155@1.720	9.00 RH	1.610	A877
160-1488	1.257T	0.845T	2.130	0.165 X 0.206	52@1.937	238@1.372	7.65 RH	1.260	A877
160-1407	1.259	0.876	2.140	0.192	110@1.800	325@1.200	6.30 RH	1.150	AS33
160-1144HP	1.260	0.876	2.023	0.192	118@1.700	318@1.210	6.50 RH	1.160	A877
360-1010	1.260	0.876	2.023	0.192	118@1.700	318@1.210	6.50 RH	1.160	CS
160-1233	1.260	0.876	2.035	0.192	80@1.811	230@1.390	6.60 RH	1.278	AS33
360-1013	1.260	0.876	2.180	0.192	130@1.800	350@1.200	6.20 RH	1.160	CS
360-1012	1.260	0.885	2.140	0.192	110@1.800	325@1.200	6.30 RH	1.160	CS
160-1627	1.260T	0.807T	2.134	0.176 X 0.223	100@1.870	326@1.299	7.25 RH	1.252	CSV+V
160-1569	1.262T	0.966T	1.729	0.148	42@1.440	137@0.820	5.60 RH	0.770	A877
160-1319	1.264	0.880	1.876	0.162 X 0.192	39@1.671	135@1.278	7.15 RH	1.172	A877
160-1623	1.270T	0.845T	2.098	0.170 X 0.212	63@1.900	288@1.275	7.30 RH	1.230	CSV+V
160-1300	1.271	0.917	2.265	0.177	75@1.867	150@1.477	7.60 RH	1.350	A877
160-1571	1.272	0.948	2.780	0.162	47@2.370	183@1.375	8.40 RH	1.334	A877
160-1628	1.272T	0.826T	2.024	0.178 X 0.223	100@1.771	326@1.220	7.00 RH	1.181	CSV+V
160-1406	1.275	0.920	2.335	0.177	46@2.096	162@1.534	7.12 RH	1.360	A877
160-1527	1.275	0.947	2.518	0.162	74@1.930	144@1.504	8.25 RH	1.370	A877
160-1645	1.275T	0.979T	2.016	0.148	70@1.424	140@0.875	6.00 RH	0.815	CSV
160-1688	1.276T	0.858T	2.253	0.209	87@1.900	272@1.375	8.10 RH	1.305	CSV
160-1080	1.279	0.933	1.878	0.173	97@1.460	217@1.020	6.00 RH	0.976	A877
160-1179	1.280	0.906	2.650	0.187	56@2.340	156@1.830	9.50 RH	1.770	A877
160-1647	1.280	0.946	2.455	0.167	80@1.900	171@1.300	7.30 RH	1.260	A877
160-1290	1.281	0.930	2.438	0.177	125@1.740	151@1.590	7.75 RH	1.370	A877
160-1030	1.283	0.959	1.822	0.162	46@1.550	120@1.150	6.00 RH	1.056	A230

Valve Spring Progressive Size Listing By O.D.

SBI Part #	O.D.	I.D.	Free Length	Wire Size	Closed Position Pressure & Length	Open Position Pressure & Length	Number Of Coils Left Or Right Hand	Solid Height	Material
160-1570	1.285	0.945	2.386	0.170	44@2.055	184@1.300	7.75 RH	1.262	A877
160-1076	1.290	0.930	2.110	0.180	90@1.701	215@1.290	6.89 RH	1.240	A877
160-1001	1.292	0.938	2.066	0.177	75@1.727	180@1.340	7.20 LH	1.260	A877
160-1223	1.292	0.968	2.375	0.162	61@1.875	119@1.521	8.30 RH	1.344	A877
160-1437	1.293T	0.935T	1.834	0.182	68@1.600	205@1.170	6.00 LH	1.000	A877
160-1072	1.297	0.933	1.840	0.182	65@1.577	180@1.156	5.90 LH	1.050	A877
160-1225	1.297	1.013	2.640	0.142	38@1.937	70@1.546	9.50 RH	1.350	A877
160-1642SSA	1.299T	0.854T	2.370	0.178 X 0.222	117@1.988	332@1.466	8.35 RH	1.429	CSV
160-1064	1.300	0.960	1.935	0.170	45@1.700	143@1.200	6.00 RH	1.002	A877
160-1019	1.300	0.988	1.968	0.156	55@1.575	105@1.200	7.00 RH	1.106	A230
160-1653	1.300	1.024	2.255	0.138	31@1.650	77@1.150	8.00 RH	1.105	A877-10
160-1398	1.300T	0.961T	2.025	0.167	54@1.700	158@1.250	7.00 RH	1.150	A877
160-1130	1.301	1.005	2.070	0.148	46@1.600	101@1.160	6.75 LH	1.030	A877
160-1145	1.302	0.938	2.190	0.182	78@1.890	202@1.450	6.75 RH	1.220	A877
160-1648	1.302	0.972	2.788	0.165	73@2.100	154@1.450	8.50 RH	1.385	A877
160-1106	1.303	0.949	1.923	0.177	65@1.600	161@1.200	6.60 RH	1.176	A877
160-1307	1.304	0.930	1.846	0.187	56@1.650	170@1.250	6.50 RH	1.180	A877
160-1220	1.306	1.010	2.313	0.148	40@1.812	70@1.437	7.50 RH	1.110	A877
160-1689	1.311	0.917	2.218	0.158 X 0.197	104@1.700	231@1.146	7.00 RH	1.080	OTEVA 91
160-1031	1.315	0.961	1.875	0.177	57@1.600	155@1.200	6.50 RH	1.150	A877
160-1489	1.315	0.975	2.158	0.170	92@1.575	172@1.155	6.60 RH	1.063	A877
160-1216	1.316	0.992	2.065	0.162	59@1.575	105@1.260	6.75 LH	1.040	A877
160-1097	1.317	1.005	1.958	0.156	62@1.450	101@1.200	7.00 LH	1.048	A877
160-1016	1.318	0.964	1.830	0.177	51@1.640	140@1.265	5.63 RH	1.000	A230
160-1378	1.318T	0.958T	1.967	0.177	85@1.640	200@1.216	6.50 RH	1.163	A877
160-1379	1.320	0.948	2.385	0.187	78@2.000	174@1.650	7.60 RH	1.400	A877
160-1038	1.324	0.950	1.800	0.187	50@1.600	170@1.200	5.90 RH	1.091	A877
160-1348	1.325	0.942	2.235	0.192	59@2.000	180@1.550	7.10 RH	1.350	A877
160-1127	1.328	1.004	2.000	0.162	52@1.585	117@1.220	7.25 LH	1.150	A877
160-1140	1.332	0.958	2.260	0.187	100@1.812	195@1.437	7.25 RH	1.360	A877
160-1483	1.334T	0.964T	1.930	0.185	75@1.640	210@1.216	6.60 RH	1.156	A877
160-1482	1.335	0.995	1.955	0.170	30@1.750	120@1.250	7.20 RH	1.200	A230
160-1463	1.336	0.972	2.523	0.182	90@2.000	203@1.425	7.50 RH	1.325	A877
160-1116	1.341	0.969	2.250	0.182	78@1.858	192@1.462	8.00 LH	1.390	A877
160-1518	1.341	0.995	2.067	0.173	40@1.825	197@1.165	6.75 RH	1.130	A877
160-1459	1.342	0.968	2.194	0.187	38@2.010	184@1.440	7.00 RH	1.280	A877
160-1565	1.343	1.003	1.901	0.170	42@1.630	143@1.135	6.50 RH	1.066	A877
160-1126	1.344	0.980	2.160	0.182	65@1.858	163@1.530	7.50 LH	1.375	A877
160-1288	1.344	1.047	2.875	0.148	42@2.094	59@1.781	9.50 RH	1.410	A877
160-1079	1.346	0.960	1.960	0.162 X 0.192	70@1.600	178@1.200	6.80 RH	1.150	A877
160-1435	1.347	1.013	2.131	0.167	60@1.690	156@1.194	6.75 RH	1.115	A877
160-1264	1.348	1.005	2.130	0.170	60@1.730	130@1.330	6.80 RH	1.130	A877
160-1103	1.349	0.950	1.950	0.200	73@1.732	223@1.350	6.50 RH	1.250	A230
160-1363	1.350T	0.930T	1.940	0.178 X 0.212	74@1.700	230@1.260	6.50 RH	1.156	A877
160-1517	1.351	1.005	2.311	0.173	41@2.035	206@1.260	7.20 RH	1.206	A877
160-1287	1.354	1.030	2.681	0.162	58@1.978	109@1.541	9.00 RH	1.400	A877
160-1131	1.355	1.006	1.828	0.177	52@1.585	154@1.220	6.00 LH	1.065	A230
160-1516	1.355	1.009	1.920	0.173	32@1.745	131@1.205	6.25 RH	1.100	A877
160-1120	1.364	1.010	2.222	0.177	75@1.780	168@1.390	7.00 LH	1.300	A877
160-1023	1.370	0.970	2.034	0.200	69@1.800	207@1.400	6.50 RH	1.225	AS-28
160-1152	1.374	1.010	2.020	0.182	61@1.730	183@1.280	6.50 LH	1.180	A877
160-1610	1.374	1.017	2.190	0.177	37@1.984	205@1.314	6.60 RH	1.140	A877
160-1620	1.375	0.981	3.035	0.197	130@2.350	294@1.700	7.90 LH	1.570	A877
160-1226	1.375	0.992	2.234	0.192	69@1.900	164@1.500	7.25 RH	1.392	A230
160-1205	1.375	1.021	2.173	0.177	58@1.811	143@1.358	6.75 RH	1.228	A877
160-1592	1.379	1.009	2.608	0.185	101@2.000	207@1.492	7.70 RH	1.400	A877-10
160-1203	1.379	1.015	1.785	0.182	30@1.667	174@1.119	5.50 LH	1.005	A877
160-1024	1.380	0.996	1.923	0.192	55@1.700	165@1.300	6.10 LH	1.115	A877
160-1151	1.380	1.010	1.970	0.185	75@1.660	180@1.230	6.25 RH	1.170	A877

Valve Spring Progressive Size Listing By O.D.

SBI Part #	O.D.	I.D.	Free Length	Wire Size	Closed Position Pressure & Length	Open Position Pressure & Length	Number Of Coils Left Or Right Hand	Solid Height	Material
160-1118	1.382	1.058	1.980	0.162	58@1.533	105@1.203	6.25 RH	1.020	A877
160-1302	1.383	0.969	3.420	0.207	120@2.810	255@2.210	10.30 RH	2.066	A877
160-1054	1.385	1.011	1.900	0.187	39@1.750	190@1.200	5.75 RH	1.075	AS-28
160-1020	1.385	1.015	2.000	0.185	83@1.687	177@1.310	6.75 RH	1.249	A877
160-1192	1.386	1.016	2.050	0.185	58@1.766	159@1.271	6.75 LH	1.201	A877
160-1629	1.390	1.007	2.445	0.192	110@1.920	235@1.413	7.20 RH	1.319	A877
160-1018	1.390	1.020	1.810	0.185	85@1.480	187@1.080	5.75 RH	1.002	A877
160-1143	1.390	1.020	2.610	0.185	100@2.000	190@1.500	7.50 RH	1.350	A877
160-1446	1.392T	1.038T	2.190	0.177	36@1.984	210@1.314	6.50 RH	1.150	A877
160-1479	1.393	0.957	3.886	0.218	94@3.464	324@2.535	10.65 RH	2.275	A877
160-1004	1.393	1.010	2.060	0.192	75@1.790	200@1.340	6.90 LH	1.255	A877
160-1044	1.394	1.010	2.040	0.192	78@1.780	204@1.360	6.75 LH	1.290	A877
160-1047	1.394	1.010	2.100	0.192	78@1.780	204@1.330	6.50 LH	1.260	A877
160-1164	1.394	1.010	2.200	0.192	84@1.812	218@1.365	6.90 RH	1.300	A230
160-1122	1.394	1.020	2.000	0.192	83@1.687	178@1.313	6.25 LH	1.203	A877
160-1431	1.394T	1.020T	2.212	0.187	90@1.808	226@1.338	6.60 RH	1.220	AS33
160-1606	1.397	1.023	2.182	0.187	88@1.769	211@1.237	6.30 RH	1.185	A877
160-1137	1.398	1.058	1.940	0.170	62@1.586	140@1.134	5.80 LH	0.990	AS33
160-1206	1.400	1.000	2.050	0.200	76@1.800	197@1.400	6.50 RH	1.260	AS33
160-1161	1.400	1.000	2.068	0.200	80@1.810	229@1.330	6.40 LH	1.280	A877
160-1134	1.400	1.016	1.990	0.192	80@1.700	197@1.300	6.00 LH	1.150	A877
160-1135	1.400	1.024	1.875	0.188	81@1.580	192@1.180	6.00 LH	1.120	A877
160-1498	1.400	1.046	1.847	0.177	40@1.658	177@1.050	5.40 RH	0.948	A877
160-1556	1.400T	1.046T	2.051	0.177	44@1.760	154@1.225	6.75 RH	1.165	A877
160-1558	1.401T	1.047T	2.085	0.177	33@1.860	169@1.200	6.70 RH	1.150	CSV+V
160-1447	1.408	1.025	2.560	0.192	85@2.067	191@1.500	7.50 RH	1.417	A877
160-1499	1.408	1.054	1.674	0.177	38@1.506	167@0.958	4.90 RH	0.865	A877
160-1041	1.410	1.010	1.965	0.200	45@1.800	205@1.300	6.10 LH	1.220	A877
160-1071	1.410	1.010	2.028	0.200	80@1.780	225@1.330	6.50 LH	1.250	A877
160-1162	1.410	1.010	2.056	0.200	80@1.820	226@1.390	6.70 LH	1.330	A877-10
160-1201	1.410	1.010	2.090	0.200	136@1.650	228@1.350	6.30 LH	1.200	A877
160-1189	1.410	1.056	2.710	0.177	117@1.850	160@1.530	7.50 RH	1.350	A877
160-1212	1.420	1.067	2.208	0.177	69@1.740	145@1.320	6.75 LH	1.130	A230
160-1410	1.424T	1.010T	2.050	0.207	75@1.840	250@1.348	6.30 RH	1.270	A877
160-1291	1.425	1.141	2.578	0.142	49@1.656	83@1.256	7.50 LH	1.065	A230
160-1624	1.427	1.063	2.940	0.182	105@2.150	206@1.500	8.00 RH	1.430	A877
160-1157	1.432	1.058	2.100	0.187	75@1.716	200@1.264	6.66 LH	1.224	A877
160-1650	1.434	0.947	2.875	0.187	150@1.928	230@1.473	7.00 RH	1.316	A877-10
160-1228	1.435	1.052	1.900	0.192	52@1.700	170@1.250	6.00 RH	1.152	A877
160-1124	1.436	1.062	2.260	0.187	99@1.820	189@1.420	6.50 LH	1.250	A877
160-1669	1.436	1.062	3.070	0.187	172@2.000	260@1.492	8.00 RH	1.430	A877-10
160-1147	1.437	1.053	1.960	0.192	80@1.670	212@1.270	5.85 RH	1.110	A877
160-1006	1.437	1.053	1.960	0.192	80@1.670	187@1.270	5.85 RH	1.110	A877
160-1049	1.437	1.053	2.010	0.192	90@1.670	210@1.220	5.78 RH	1.110	A877
160-1132	1.438	1.024	2.047	0.207	89@1.770	233@1.380	6.00 LH	1.260	A877
160-1575	1.438	1.055	3.185	0.189	80@2.643	210@2.008	8.85 RH	1.673	AS-50A
160-1304	1.440	1.026	3.300	0.207	132@2.589	230@2.073	9.40 RH	1.954	A877
160-1513	1.452	1.058	1.962	0.197	51@1.750	183@1.250	6.15 LH	1.205	A877
160-1190	1.453	1.070	2.400	0.192	93@1.900	200@1.400	6.75 RH	1.296	A877
160-1211	1.454	1.100	2.390	0.177	65@1.900	145@1.405	7.50 LH	1.280	A877
160-1697	1.455	1.085	2.779	0.185	64@2.362	154@1.778	7.20 RH	1.332	SWOSC-V
360-1016	1.460	0.800	2.235	0.192	120@1.875	395@1.175	5.80 LH	1.080	CS
160-1159	1.460	1.060	2.155	0.197	83@1.790	215@1.340	6.40 LH	1.270	A877
160-1175	1.462	1.062	2.120	0.200	90@1.820	220@1.380	6.63 LH	1.320	AS33S
160-1409	1.464	1.080	2.300	0.192	85@1.900	211@1.300	6.50 RH	1.200	A877
160-1567	1.468	1.128	2.789	0.170	64@2.075	150@1.300	7.30 RH	1.238	CSV+V
160-1213	1.469	1.069	2.341	0.200	55@2.096	180@1.530	7.00 RH	1.434	A877
160-1405	1.471	1.117	2.333	0.177	54@1.875	135@1.421	7.50 RH	1.315	A877
160-1227	1.475	1.091	2.440	0.192	90@1.900	190@1.400	7.00 LH	1.300	AS28

Valve Spring Progressive Size Listing By O.D.

SBI Part #	O.D.	I.D.	Free Length	Wire Size	Closed Position Pressure & Length	Open Position Pressure & Length	Number Of Coils Left Or Righ Hand	Solid Height	Material
160-1416	1.477	1.063	2.357	0.207	83@2.007	215@1.497	6.90 LH	1.370	A877
160-1204	1.480	1.080	2.100	0.200	75@1.800	208@1.400	6.25 LH	1.250	A230
160-1417	1.482	1.068	2.580	0.207	145@1.980	262@1.530	6.90 LH	1.370	A877
160-1178	1.484	1.110	2.310	0.187	55@1.950	180@1.400	7.38 RH	1.340	A877
160-1492	1.488	1.118	2.175	0.185	35@1.984	150@1.346	6.20 RH	1.140	A877
160-1554	1.489	1.119	2.199	0.185	48@1.875	177@1.245	6.75 RH	1.208	A877
160-1533	1.490	1.150	2.270	0.170	46@1.825	146@1.160	7.00 RH	1.123	A877
160-1497	1.491	1.167	1.809	0.162	25@1.567	106@1.020	5.60 LH	0.921	A877
160-1694	1.492	1.075	2.890	0.209	130@2.320	247@1.811	7.75 RH	1.618	SWOSC-V
160-1150	1.494	1.080	1.940	0.207	96@1.650	238@1.220	5.70 RH	1.100	A877
160-1149	1.494	1.080	2.230	0.207	105@1.860	246@1.360	6.25 RH	1.290	A877
160-1286	1.499	1.116	2.562	0.192	56@2.156	137@1.706	8.60 RH	1.600	A877
160-1305	1.500	1.086	2.635	0.207	89@2.240	217@1.670	7.40 RH	1.552	A877
160-1507	1.500T	1.100T	2.162	0.200	48@1.977	220@1.397	6.45 RH	1.264	A877
160-1003	1.501	0.803	2.120	0.207	111@1.880	331@1.380	6.50 RH	1.280	A877
160-1154	1.503	1.067	2.060	0.218	85@1.820	270@1.320	6.00 LH	1.260	AS33
160-1141	1.504	1.090	2.050	0.207	90@1.800	220@1.400	6.50 LH	1.340	A877
160-1139	1.504	1.090	2.215	0.207	90@1.880	220@1.460	6.50 LH	1.340	AS33S
160-1531	1.530	1.136	2.504	0.197	46@2.200	187@1.535	8.00 RH	1.499	A877
160-1537	1.535	1.111	2.565	0.178 X 0.212	71@2.100	220@1.375	7.75 RH	1.330	A877
160-1011	1.540	1.090	2.078	0.225	80@1.880	300@1.380	5.68 LH	1.278	A877
160-1138	1.543	1.093	2.143	0.225	110@1.880	343@1.380	6.00 LH	1.260	A877
160-1424	1.547	1.193	2.350	0.177	73@1.752	130@1.287	6.50 RH	1.150	A877
160-1198	1.552	1.138	2.005	0.207	48@1.802	174@1.302	6.30 RH	1.252	A877
160-1296	1.555	1.201	3.468	0.177	44@2.718	111@2.156	11.00 RH	1.875	A230
160-1552	1.560	1.128	2.491	0.177	54@2.015	179@1.225	6.95 RH	1.175	A877
160-1217	1.560	1.190	2.038	0.185	42@1.790	142@1.190	6.30 RH	1.117	A877
160-1449	1.574	1.190	2.520	0.192	100@1.890	165@1.510	6.50 LH	1.250	A877
160-1546	1.575	1.181	2.300	0.197	56@1.950	171@1.350	6.75 RH	1.293	A877
160-1171	1.580	1.206	3.543	0.187	60@2.719	135@2.154	11.00 RH	1.964	A877
160-1197	1.717	1.281	2.574	0.218	65@2.219	176@1.614	7.35 RH	1.531	A877
160-1677	1.720	1.284	3.017	0.218	122@2.300	263@1.600	7.30 RH	1.555	A877-10
160-1461	1.720	1.284	3.030	0.218	102@2.500	197@2.000	7.15 LH	1.500	A877
160-1429	1.730	1.347	3.302	0.192	65@2.596	130@2.076	8.25 RH	1.590	A877
160-1191	1.731	1.281	2.626	0.225	88@2.219	233@1.580	7.00 RH	1.519	A877
160-1397	1.735	1.285	2.500	0.225	61@2.220	194@1.660	6.50 RH	1.377	A877
160-1641	1.775	1.325	2.795	0.225	67@2.500	313@1.450	6.20 RH	1.350	CSV+V
160-1176	1.802	1.332	3.349	0.235	171@2.470	280@1.908	7.86 LH	1.841	A877

Rotators/Retainers Numerical Listing

SBI Part #	Description	SBI Part #	Description	SBI Part #	Description
161-1003	Rotator				
161-1012	Rotator				
161-1013	Rotator				
161-1018	Rotator				
161-1020	Rotator				
161-1023	Rotator				
161-1028	Rotator				
161-1029	Rotator				
161-1030	Rotator				
161-1033	Rotator				
161-1035	Rotator				
161-1038	Rotator				
161-1039	Rotator				
161-1040	Rotator				
161-1041	Rotator				
161-1042	Rotator				
161-1045L	Rotator, Lower				
161-1046	Rotator				
161-1047	Rotator				
161-1049	Rotator				
161-1052	Rotator				
161-1053	Rotator				
161-1054	Rotator				
161-1056	Rotator				
161-1057	Retainer				
161-1058	Retainer				
161-1059	Rotator				
161-1067	Rotator				
161-1068	Rotator				
161-1069	Rotator				
161-1072L	Rotator, Lower				
161-1073	Rotator				
161-1074	Retainer				
161-1075	Rotator				
161-1076	Rotator				
161-1077	Rotator				
161-1078	Rotator				
161-1079	Retainer				
161-1080	Retainer				
161-1081	Retainer				
161-1082	Retainer				
161-9002	Lash Cap				
361-1010	Retainer, Steel				
361-1013	Retainer, Steel				
361-1014	Retainer, Steel, 10 Degree				

Lifter Numerical Listing

SBI Part #	Type	SBI Part #	Type	SBI Part #	Type
170-1011	Mechanical	VL558FG	AFM Lifter Guide-Front		
170-1012	Mechanical	VL558RG	AFM Lifter Guide-Rear		
170-1013	Mechanical	VL559	Hydraulic Roller		
170-1014	Hydraulic Roller	VL559G	Non-AFM Lifter Guide		
VL5	Hydraulic	VL560	Hydraulic Roller		
VL8	Hydraulic	VL561	Hydraulic Lash Adjuster		
VL9	Hydraulic	VL562	Hydraulic Lash Adjuster		
VL21	Mechanical	VL564	Hydraulic Bucket		
VL31	Mechanical High Performance	VL565	Mechanical		
VL32	Hydraulic	VL567	Hydraulic Bucket		
VL35	Hydraulic	VL568	Hydraulic Bucket		
VL37	Hydraulic	VL569	Hydraulic Lash Adjuster		
VL48	Mechanical High Performance	VL570	Hydraulic Lash Adjuster		
VL49	Hydraulic	VL571	Hydraulic Bucket		
VL63	Mechanical High Performance	VL572	Mechanical		
VL64	Hydraulic	VL573	Mechanical Roller		
VL66RH	Hydraulic High Performance	VL575	Hydraulic Lash Adjuster		
VL67RH	Hydraulic High Performance				
VL73	Hydraulic				
VL81	Mechanical				
VL83	Hydraulic Lash Adjuster				
VL86	Hydraulic				
VL87	Hydraulic Lash Adjuster				
VL88	Hydraulic				
VL89	Hydraulic				
VL94	Hydraulic				
VL100	Hydraulic Roller				
VL106	Hydraulic Roller				
VL107	Hydraulic Lash Adjuster				
VL109	Hydraulic Lash Adjuster				
VL113	Hydraulic Roller				
VL114	Hydraulic Roller				
VL115	Hydraulic Roller				
VL116	Hydraulic Bucket				
VL117RH	Hydraulic High Performance				
VL120	Hydraulic Bucket				
VL123	Hydraulic Roller				
VL135	Hydraulic Lash Adjuster				
VL138	Hydraulic Roller				
VL141	Hydraulic Lash Adjuster				
VL146	Hydraulic Lash Adjuster				
VL149	Hydraulic Bucket				
VL150	Hydraulic Roller				
VL156	Mechanical				
VL163	Hydraulic Roller				
VL171	Hydraulic Lash Adjuster				
VL173	Hydraulic Lash Adjuster				
VL175	Hydraulic Lash Adjuster				
VL176	Hydraulic Lash Adjuster				
VL178	Hydraulic Lash Adjuster				
VL180	Hydraulic Lash Adjuster				
VL523	Hydraulic Bucket				
VL524	Hydraulic Bucket				
VL549	Mechanical				
VL554	Mechanical				
VL555LA	Non-MDS-Hydraulic Roller Assy.				
VL556LA	Front-MDS-Hydraulic Roller Assy.				
VL557LA	Rear-MDS-Hydraulic Roller Assy.				
VL558	AFM Hydraulic Roller				
VL558E	AFM Hydraulic Roller				

Rocker Arm Numerical Listing

SBI Part #	Description	SBI Part #	Description
180-1004	Cam Follower	180-1341	Roller Cam Follower
180-1007	Rocker Arm	180-1342	Roller Cam Follower
180-1008	Rocker Arm		
180-1012	Rocker Arm		
180-1028	Cam Follower		
180-1029	Rocker Arm		
180-1037	Cam Follower		
180-1040	Rocker Arm, Stamped Steel		
180-1041	Rocker Arm, Stamped Steel		
180-1055	Rocker Arm		
180-1056	Rocker Arm		
180-1059	Rocker Arm, Cast		
180-1077	Rocker Arm		
180-1078	Rocker Arm		
180-1079	Rocker Arm		
180-1080	Rocker Arm		
180-1207	Roller Rocker Arm		
180-1228	Rocker Arm		
180-1229	Rocker Arm		
180-1233	Rocker Arm, Stamped		
180-1234	Rocker Arm, Stamped		
180-1236	Rocker Arm, Stamped		
180-1237	Rocker Arm, Cast		
180-1238	Rocker Arm, Cast, Rail Type		
180-1239	Rocker Arm, Stamped, Long Slot		
180-1240	Cam Follower		
180-1264	Cam Follower, Cast		
180-1265	Cam Follower		
180-1266	Cam Follower		
180-1267	Cam Follower		
180-1283	Rocker Arm, Rail Type		
180-1284	Roller Cam Follower		
180-1288	Rocker Arm		
180-1290	Rocker Arm		
180-1292	Rocker Arm		
180-1304	Rocker Arm, Cast		
180-1313	Rocker Arm		
180-1315	Rocker Arm		
180-1317	Rocker Arm, Roller Pivot Assy., W/Bolt		
180-1318	Rocker Arm		
180-1319	Rocker Arm		
180-1320	Roller Cam Follower, Incl. Lash Adj.		
180-1321	Roller Cam Follower, Incl. Lash Adj.		
180-1322	Roller Cam Follower		
180-1323	Cam Follower		
180-1324	Roller Cam Follower		
180-1325	Roller Cam Follower		
180-1326	Rocker Arm, Cast Aluminum		
180-1328	Rocker Arm, Stamped		
180-1329	Rocker Arm, Roller Pivot Assy.		
180-1330	Cam Follower		
180-1331	Rocker Arm, Roller Pivot Assy.		
180-1332	Roller Cam Follower		
180-1333	Roller Cam Follower		
180-1335	Roller Cam Follower		
180-1336	Rocker Arm, Roller Pivot Assy.		
180-1337	Rocker Arm, Roller Pivot Assy.		
180-1339	Roller Cam Follower		
180-1340	Roller Cam Follower		

Rocker Arm Kit Component Listing

SBI Part #	Rocker Arm	BLS/FUL/BR (1)	BLS/FUL/BR (2)	BLT/NUT/STD (1)	BLT/NUT/STD (2)	BLT/NUT/STD (3)	Retainer
181-1011	180-1228 (1)	183-1017 (1)		184-1038 (1)			
181-1012	Not Sold Sep. (1)	183-1024 (1)		184-1038 (1)			
181-1014	180-1229 (1)	183-1026 (1)		184-1040 (1)			
181-1016	Not Sold Sep. (1)	183-1015 (1)		184-1032 (1)			
181-1017	Not Sold Sep. (1)	Not Sold Sep. (1)					
181-1018	180-1012 (1)	Not Sold Sep. (1)		Not Sold Sep. (1)			
181-1020	Not Sold Sep. (1)	183-1021 (1)		184-1038 (1)			
181-1021	Not Sold Sep. (1)	Not Sold Sep. (1)		184-1038 (1)			
181-1023	180-1304 (1)	183-1020 (1)		184-1038 (1)			
181-1025	Not Sold Sep. (1)	183-1021 (1)		184-1038 (1)			
181-1028	Not Sold Sep. (2)	183-1014 (2)	183-1028 (1)				
181-1032	Not Sold Sep. (2)	183-1014 (2)	183-1028 (1)				
181-1034	180-1233 (1)	183-1022 (1)		184-1034 (1)			
181-1035	180-1234 (1)	183-1022 (1)		184-1035 (1)			
181-1037	180-1236 (2)	183-1014 (2)	183-1028 (1)				
181-1040	180-1237 (1)	183-1030 (1)		184-1038 (1)	184-1039 (1)		
181-1041	180-1238 (1)	183-1020 (1)		184-1038 (1)	184-1039 (1)		
181-1044	Not Sold Sep. (1)	183-1021 (1)		184-1038 (1)			
181-1048	Not Sold Sep. (1)	183-1026 (1)		184-1040 (1)			
181-1049	180-1239 (1)	183-1032 (1)		184-1038 (1)			
181-1057	Not Sold Sep. (2)	183-1027 (2)	183-1028 (1)				
181-1059	Not Sold Sep. (2)	183-1027 (2)	183-1028 (1)				
181-1060	Not Sold Sep. (2)	Not Sold Sep. (2)					Not Sold Sep. (1)
181-1061	180-1283 (1)	183-1017 (1)		184-1038 (1)			
181-1063	Not Sold Sep. (1)	Not Sold Sep. (1)		Not Sold Sep. (1)			
181-1064	180-1318 (1)	183-1034 (1)		184-1045 (1)			

Rocker Components Numerical Listing

SBI Part #	Description	SBI Part #	Description
183-1014	Fulcrum, Short		
183-1015	Smooth Ball, 10mm		
183-1017	Smooth Ball, 3/8		
183-1020	Grooved Ball, 3/8		
183-1021	Grooved Ball, 7/16		
183-1022	Fulcrum		
183-1024	Smooth Ball, 3/8		
183-1026	Grooved Ball, 7/16		
183-1027	Fulcrum, Long		
183-1028	Bridge		
183-1030	Smooth Ball, 3/8		
183-1032	Grooved Ball, 3/8		
183-1034	Smooth Ball, 9/16		
183-1035	Smooth Ball, 7/16		
184-1020	Stud, 7/16		
184-1022	+6 Oversize Stud		
184-1023	Stud, 3/8-7/16		
184-1025	Stud, 10mm		
184-1032	Nut, 10mm		
184-1033	Nut, 8mm		
184-1034	Bolt, 5/16		
184-1035	Bolt W/Washer, 5/16		
184-1038	Nut, 3/8		
184-1039	Nut, 5/16		
184-1040	Nut, 7/16		
184-1045	Stud Blt, 3/8		
186-1090	Rocker Arm Shaft		
186-1100	Rocker Arm Shaft		
186-1121	Rocker Arm Shaft		
187-1014	Retainer		
187-1051	Roll Pin		
187-1052	Bridge Guide		
187-1062	Valve Roller Pin		
187-1067	Injector Cam Roller		
187-1068	Injector Cam Roller		
187-1069	Spring		
187-1079	Valve Roller & Pin Set		
187-1080	Cam Follower Roller Set		
187-1081	Cam Follower Assy.		
187-1087	Valve Bridge Guide		

Pushrod Numerical Listing

PUSHROD TYPES



SINGLE PIECE



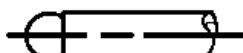
WELDED BALL



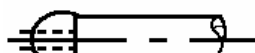
PRESSED TIP



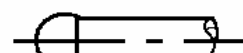
156-WBD



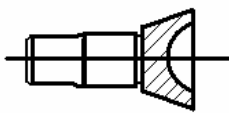
156-WB



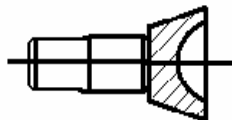
157-WBD



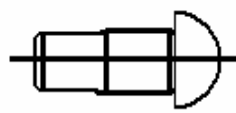
157-WB



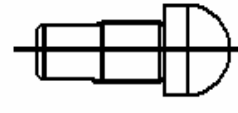
LF-172



PF-156



PM-156



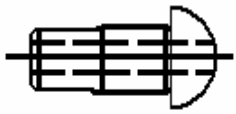
PM-180



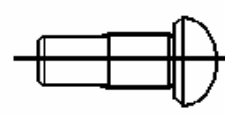
LF-187



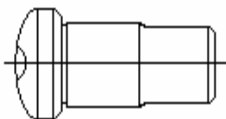
PF-172



PM-156D



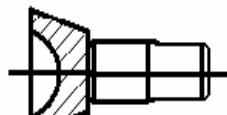
PM-187B



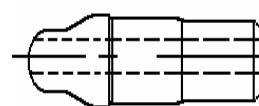
LM-156D



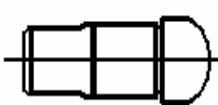
PF-187



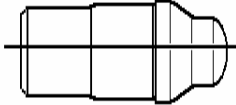
PM-156DT



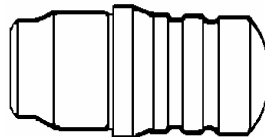
PM-312C



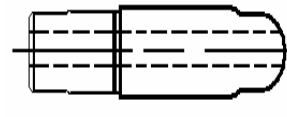
LM177



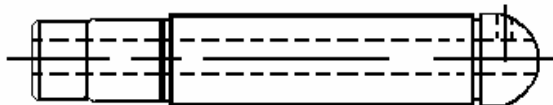
PM-125C



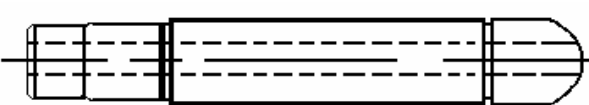
PM1752G



XLM-156D*



PM-156DTHXL*



PM156DXL*

*Long Tips (Can use guideplate contacts tip and not tubing wall)

Pushrod Numerical Listing

SBI Part #	Length	Tip	Tip	Pushrod Dia.
190-0471	5.475	187-WB	187-WB	312X060
190-1221	8.258	WB-180	PF-180	312X060
190-1222	9.602	WB-180	PF-180	312X060
190-1237	9.975	WB-156	PM-180	312X060
190-1269	8.778	156-WBD	156-WBD	312X060
190-1280	8.021	WB-187	PF-180	312X060
190-1327	8.350	187-WB	187-WB	312X060
190-1327U54	8.290	187-WB	187-WB	312X060
190-1328	9.355	187-WB	187-WB	312X060
190-1342	7.491	156-WB	PF-156	312X060
190-1349	8.723	187-WB	187-WB	312X060
190-1351	9.620	187-WB	187-WB	312X060
190-1351+60	9.680	187-WB	187-WB	312X060
190-1351U60	9.560	187-WB	187-WB	312X060
190-1370	9.779	WB-187	WB-187	375X060
190-1384	9.547	156-WBD	156-WBD	312X060
190-1385	10.200	156-WBD	156-WBD	344X060
190-1395	8.408	156-WBD	156-WBD	312X060
190-1396	8.648	156-WBD	156-WBD	312X060
190-1403	9.315	156-WB	156-WB	312X060
190-1408	8.575	156-WB	156-WB	312X060
190-1411	8.234	156-WBD	156-WBD	312X042
190-1417	9.500	156-WBD	156-WBD	312X060
190-1417+60	9.560	156-WBD	156-WBD	312X060
190-1417U60	9.440	156-WBD	156-WBD	312X060
190-1421	9.378	156-WBD	156-WBD	312X060
190-1425	8.550	156-WBD	156-WBD	312X060
190-1425+60	8.610	156-WBD	156-WBD	312X060
190-1426	9.590	187-WB	187-WB	312X060
190-1427	7.635	156-WBD	156-WBD	344X060
190-1429	9.594	156-WBD	156-WBD	312X060
190-1433	8.686	156-WBD	156-WBD	312X060H
190-1433+60	8.746	156-WBD	156-WBD	312X060H
190-1435	5.429	WB-172	PF-172	312X060
190-1438	8.245	187-WBD	187-WBD	312X060
190-1440	9.622	156-WBD	156-WBD	312X060
190-1443	8.182	156-WBD	156-WBD	312X060
190-1449	9.985	156-WBD	156-WBD	312X060
190-1450	7.500	156-WB	156-WB	312X060
190-1450+15	7.530	156-WB	156-WB	312X060
190-1450+45	7.560	156-WB	156-WB	312X060
190-1454	9.700	156-WBD	156-WBD	312X060
190-1455	9.485	156-WBD	156-WBD	312X060
190-1473	6.248	156-WBD	156-WBD	312X060
190-1478	8.470	156-WBD	156-WBD	312X060
190-1489	7.702	187-WBD	187-WBD	312X060
190-1500	8.828	187-WBD	187-WBD	375X075
190-1502	6.802	156-WB	156-WB	312X060
190-1507	6.777	156-WBD	156-WBD	312X060
190-1509	5.125	156-WBD	156-WBD	312X060
190-1511	7.137	156-WBD	156-WBD	312X060
190-1522	7.770	156-WBD	156-WBD	312X060
190-1524	5.332	156-WBD	156-WBD	312X060
190-1525	6.901	156-WBD	156-WBD	312X060
190-1526	8.634	156-WBD	156-WBD	312X060
190-1527	8.571	156-WBD	156-WBD	312X075
190-1528	9.540	156-WBD	156-WBD	312X075
190-1529	9.728	156-WBD	156-WBD	312X060
190-1530	10.910	156-WB	LF-187	375X060
190-1531	9.993	187-WBD	187-WBD	344X060
190-1532	6.721	156-WBD	156-WBD	344X060

Pushrod Numerical Listing

SBI Part #	Length	Tip	Tip	Pushrod Dia.
190-1533	7.029	156-WBD	156-WBD	344X060
190-1534	5.750	156-WBD	156-WBD	312X060H
190-1535	6.074	156-WBD	156-WBD	312X060H
190-1536	7.520	156-WBD	156-WBD	312X060
190-1537	7.397	156-WBD	156-WBD	312X075
190-1538	10.240	187-WBD	187-WBD	344X060
190-1539	7.515	156-WBD	156-WBD	375X060
190-1541	5.297	156-WBD	156-WBD	312X060
190-1543	8.122	WB-180	PF-180	312X060
190-1544	6.610	156-WBD	156-WBD	312X060
190-1545	7.838	156-WBD	156-WBD	312X060
190-1546	5.879	156-WBD	156-WBD	312X060
190-1547	6.168	156-WBD	156-WBD	312X060
190-1548	9.795	187-WBD	187-WBD	344X060
190-1549	6.792	156-WBD	156-WBD	312X075
190-1550	8.085	156-WBD	156-WBD	312X075
190-1551	6.650	156-WBD	156-WBD	312X060
190-1552	7.870	156-WBD	156-WBD	312X060
190-1553	9.530	187-WBD	PF-156	312X060
190-1554	11.435	195-WB	PF-187	375X075
190-1555	7.850	156-WBD	156-WBD	344X075
192-1229	9.136	156-WBD	156-WBD	312X060H
192-1229U60	9.076	156-WBD	156-WBD	312X060H
192-1321	6.804	156-WBD	156-WBD	312X060H
192-1322	10.136	156-WBD	156-WBD	312X060H
192-1322U40	10.100	156-WBD	156-WBD	312X060H
192-1330	9.682	156-WBD	156-WBD	312X060H
192-1331	7.793	156-WBD	156-WBD	312X060H
192-1335	11.382	156-WBD	156-WBD	312X060H
192-1336	9.252	156-WBD	156-WBD	375X075H
192-1337	8.280	156-WBD	156-WBD	375X075H
192-1338	9.200	156-WBD	156-WBD	312X060H
192-1339	8.230	156-WBD	156-WBD	312X060H
192-1377	8.680	156-WBD	156-WBD	375X075H
192-1378	9.643	156-WBD	156-WBD	375X075H
192-1381	7.735	156-WBD	156-WBD	312X060H
192-1399	8.152	156-WBD	156-WBD	312X060H
192-1409	6.876	156-WBD	156-WBD	312X060H
192-1409U60	6.816	156-WBD	156-WBD	312X060H
192-1439	8.092	156-WBD	156-WBD	312X060H
192-1442	9.650	156-WBD	156-WBD	312X060H
192-1444	6.162	156-WBD	156-WBD	312X060H
192-1446	8.045	156-WBD	156-WBD	312X060H
192-1453	8.975	156-WBD	156-WBD	312X060H
192-1462	8.383	156-WBD	156-WBD	312X060H
192-1480	8.272	156-WBD	156-WBD	312X060H
192-1481	6.043	156-WBD	156-WBD	312X060H
192-1482	6.390	156-WBD	156-WBD	312X060H
192-1482U40	6.350	156-WBD	156-WBD	312X060H
192-1484	7.700	156-WBD	156-WBD	375X075H
192-1485	7.195	156-WBD	156-WBD	312X060H
192-1491	7.963	156-WBD	156-WBD	344X060H
192-1503	9.252	156-WBD	156-WBD	312X060H
192-1504	8.280	156-WBD	156-WBD	312X060H
192-1505	8.177	156-WBD	156-WBD	312X075H
192-1506	9.162	156-WBD	156-WBD	312X060H
192-1507	7.642	156-WBD	156-WBD	312X060H
192-1508	8.595	156-WBD	156-WBD	312X060H
192-1509	9.132	156-WBD	156-WBD	375X060H
192-1510	8.190	156-WBD	156-WBD	375X060H
192-1511	7.640	156-WBD	156-WBD	375X060H

Pushrod Numerical Listing

SBI Part #	Length	Tip	Tip	Pushrod Dia.
192-1512	8.591	156-WBD	156-WBD	375X060H
192-1513	7.458	156-WBD	156-WBD	375X060H

Pushrod Progressive Size Listing By Length

Length	Tip	Tip	Pushrod Dia.	SBI Part #	Length	Tip	Tip	Pushrod Dia.	SBI Part #
5.125	156-WBD	156-WBD	312X060	190-1509	8.272	156-WBD	156-WBD	312X060H	192-1480
5.297	156-WBD	156-WBD	312X060	190-1541	8.280	156-WBD	156-WBD	312X060H	192-1504
5.332	156-WBD	156-WBD	312X060	190-1524	8.280	156-WBD	156-WBD	375X075H	192-1337
5.429	WB-172	PF-172	312X060	190-1435	8.290	187-WB	187-WB	312X060	190-1327U54
5.475	187-WB	187-WB	312X060	190-0471	8.350	187-WB	187-WB	312X060	190-1327
5.750	156-WBD	156-WBD	312X060H	190-1534	8.383	156-WBD	156-WBD	312X060H	192-1462
5.879	156-WBD	156-WBD	312X060	190-1546	8.408	156-WBD	156-WBD	312X060	190-1395
6.043	156-WBD	156-WBD	312X060H	192-1481	8.470	156-WBD	156-WBD	312X060	190-1478
6.074	156-WBD	156-WBD	312X060H	190-1535	8.550	156-WBD	156-WBD	312X060	190-1425
6.162	156-WBD	156-WBD	312X060H	192-1444	8.571	156-WBD	156-WBD	312X075	190-1527
6.168	156-WBD	156-WBD	312X060	190-1547	8.575	156-WB	156-WB	312X060	190-1408
6.248	156-WBD	156-WBD	312X060	190-1473	8.591	156-WBD	156-WBD	375X060H	192-1512
6.350	156-WBD	156-WBD	312X060H	192-1482U40	8.595	156-WBD	156-WBD	312X060H	192-1508
6.390	156-WBD	156-WBD	312X060H	192-1482	8.610	156-WBD	156-WBD	312X060	190-1425+60
6.610	156-WBD	156-WBD	312X060	190-1544	8.634	156-WBD	156-WBD	312X060	190-1526
6.650	156-WBD	156-WBD	312X060	190-1551	8.648	156-WBD	156-WBD	312X060	190-1396
6.721	156-WBD	156-WBD	344X060	190-1532	8.680	156-WBD	156-WBD	375X075H	192-1377
6.777	156-WBD	156-WBD	312X060	190-1507	8.686	156-WBD	156-WBD	312X060H	190-1433
6.792	156-WBD	156-WBD	312X075	190-1549	8.723	187-WB	187-WB	312X060	190-1349
6.802	156-WB	156-WB	312X060	190-1502	8.746	156-WBD	156-WBD	312X060H	190-1433+60
6.804	156-WBD	156-WBD	312X060H	192-1321	8.778	156-WBD	156-WBD	312X060	190-1269
6.816	156-WBD	156-WBD	312X060H	192-1409U60	8.828	187-WBD	187-WBD	375X075	190-1500
6.876	156-WBD	156-WBD	312X060H	192-1409	8.975	156-WBD	156-WBD	312X060H	192-1453
6.901	156-WBD	156-WBD	312X060	190-1525	9.076	156-WBD	156-WBD	312X060H	192-1229U60
7.029	156-WBD	156-WBD	344X060	190-1533	9.132	156-WBD	156-WBD	375X060H	192-1509
7.137	156-WBD	156-WBD	312X060	190-1511	9.136	156-WBD	156-WBD	312X060H	192-1229
7.195	156-WBD	156-WBD	312X060H	192-1485	9.162	156-WBD	156-WBD	312X060H	192-1506
7.397	156-WBD	156-WBD	312X075	190-1537	9.200	156-WBD	156-WBD	312X060H	192-1338
7.458	156-WBD	156-WBD	375X060H	192-1513	9.252	156-WBD	156-WBD	375X075H	192-1336
7.491	156-WB	PF-156	312X060	190-1342	9.252	156-WBD	156-WBD	312X060H	192-1503
7.500	156-WB	156-WB	312X060	190-1450	9.315	156-WB	156-WB	312X060	190-1403
7.515	156-WBD	156-WBD	375X060	190-1539	9.355	187-WB	187-WB	312X060	190-1328
7.520	156-WBD	156-WBD	312X060	190-1536	9.378	156-WBD	156-WBD	312X060	190-1421
7.530	156-WB	156-WB	312X060	190-1450+15	9.440	156-WBD	156-WBD	312X060	190-1417U60
7.560	156-WB	156-WB	312X060	190-1450+45	9.485	156-WBD	156-WBD	312X060	190-1455
7.635	156-WBD	156-WBD	344X060	190-1427	9.500	156-WBD	156-WBD	312X060	190-1417
7.640	156-WBD	156-WBD	375X060H	192-1511	9.530	187-WBD	PF-156	312X060	190-1553
7.642	156-WBD	156-WBD	312X060H	192-1507	9.540	156-WBD	156-WBD	312X075	190-1528
7.700	156-WBD	156-WBD	375X075H	192-1484	9.547	156-WBD	156-WBD	312X060	190-1384
7.702	187-WBD	187-WBD	312X060	190-1489	9.560	156-WBD	156-WBD	312X060	190-1417+60
7.735	156-WBD	156-WBD	312X060H	192-1381	9.560	187-WB	187-WB	312X060	190-1351U60
7.770	156-WBD	156-WBD	312X060	190-1522	9.590	187-WB	187-WB	312X060	190-1426
7.793	156-WBD	156-WBD	312X060H	192-1331	9.594	156-WBD	156-WBD	312X060	190-1429
7.838	156-WBD	156-WBD	312X060	190-1545	9.602	WB-180	PF-180	312X060	190-1222
7.850	156-WBD	156-WBD	344X075	190-1555	9.620	187-WB	187-WB	312X060	190-1351
7.870	156-WBD	156-WBD	312X060	190-1552	9.622	156-WBD	156-WBD	312X060	190-1440
7.963	156-WBD	156-WBD	344X060H	192-1491	9.643	156-WBD	156-WBD	375X075H	192-1378
8.021	WB-187	PF-180	312X060	190-1280	9.650	156-WBD	156-WBD	312X060H	192-1442
8.045	156-WBD	156-WBD	312X060H	192-1446	9.680	187-WB	187-WB	312X060	190-1351+60
8.085	156-WBD	156-WBD	312X075	190-1550	9.682	156-WBD	156-WBD	312X060H	192-1330
8.092	156-WBD	156-WBD	312X060H	192-1439	9.700	156-WBD	156-WBD	312X060	190-1454
8.122	WB-180	PF-180	312X060	190-1543	9.728	156-WBD	156-WBD	312X060	190-1529
8.152	156-WBD	156-WBD	312X060H	192-1399	9.779	WB-187	WB-187	375X060	190-1370
8.177	156-WBD	156-WBD	312X075H	192-1505	9.795	187-WBD	187-WBD	344X060	190-1548
8.182	156-WBD	156-WBD	312X060	190-1443	9.975	WB-156	PM-180	312X060	190-1237
8.190	156-WBD	156-WBD	375X060H	192-1510	9.985	156-WBD	156-WBD	312X060	190-1449
8.230	156-WBD	156-WBD	312X060H	192-1339	9.993	187-WBD	187-WBD	344X060	190-1531
8.234	156-WBD	156-WBD	312X042	190-1411	10.100	156-WBD	156-WBD	312X060H	192-1322U40
8.245	187-WBD	187-WBD	312X060	190-1438	10.136	156-WBD	156-WBD	312X060H	192-1322
8.258	WB-180	PF-180	312X060	190-1221	10.200	156-WBD	156-WBD	344X060	190-1385
					10.240	187-WBD	187-WBD	344X060	190-1538

Pushrod Progressive Size Listing By Length

Length	Tip	Tip	Pushrod Dia.	SBI Part #	Length	Tip	Tip	Pushrod Dia.	SBI Part #
10.910	156-WB	LF-187	375X060	190-1530					
11.382	156-WBD	156-WBD	312X060H	192-1335					
11.435	195-WB	PF-187	375X075	190-1554					

Torque To Yield Head Bolts

SBI Part #	Qty.	Dia.	Length	Qty.	Dia.	Length	Qty.	Dia.	Length
220-1000	10	10mm	121mm						
220-1002	4	11mm	100mm	4	11mm	67mm			
220-1004	4	11mm	80mm	4	11mm	100mm			
220-1005	16	11mm	100mm						
220-1006	10	12mm	100mm						
220-1008	10	10mm	131mm						
220-1009	10	11mm	122mm						
220-1010	17	12mm	98mm						
220-1013	8 W/Washer	12mm	104mm	2 W/Washer	12mm	88mm			
220-1014	1	11mm	141mm	6 Stud/Bolt	11mm	166mm	3 Stud/Bolt	11mm	184mm
220-1015	8	11mm	100mm	1 Stud/Bolt	11mm	125mm	1 Stud/Bolt	11mm	100mm
220-1016	16	12mm	87mm						
220-1017	16	11mm	121mm						
220-1018	7	7/16 in	3.680 in	2	7/16 in	2.950 in	8	7/16 in	1.650 in
220-1021	16	12mm	102mm						
220-1023	10 W/Washer	11mm	211mm						
220-1024	8	11mm	58mm	4	11mm	81mm	4	11mm	112mm
220-1025	5	11mm	126mm	5 Stud/Bolt	11mm	94mm			
220-1026	10	10mm	102mm						
220-1028	10	11mm	104mm						
220-1030	8	11mm	188mm						
220-1031	8	11mm	108mm	7	11mm	91mm	1 Tapped Bolt	11mm	91mm
220-1033	1 Stud/Bolt	11mm	63mm	5	11mm	100mm	5	11mm	63mm
220-1035	5	10mm	90mm	5	10mm	108mm			
220-1043	10	11mm	104mm						
220-1046	10	10mm	96mm						
220-1047	12 W/Washer	11mm	191mm						
220-1048	16	11mm	96mm						
220-1050	5	9mm	84mm	5	9mm	98mm			
220-1052	16	11mm	115mm						
220-1059	10	9mm	98mm						
220-1060	10	10mm	95mm						
220-1071	12 W/O Washer	11mm	206.5mm						
220-1072	4 W/Washer	11mm	109mm	6 W/Washer	11mm	155mm			
220-1074	4 W/Washer	11mm	163mm	6 W/Washer	11mm	208mm			
220-1075	6	1/2 in	3.750 in	4 Stud/Bolt	1/2 in	4.500 in			
220-1076	4	11mm	132mm	4	11mm	81mm			
220-1077	8 W/Washer	11mm	152mm						
220-1080	8	11mm	129mm						
220-1083	10 W/Washer	11mm	145mm						
220-1084	12	10mm	103mm	2	10mm	86mm	4	10mm	52mm
220-1085	8	11mm	108mm	8	11mm	91mm	1	11mm	91mm
220-1086	8 W/Washer	11mm	204mm						
220-1088	5	11mm	121mm	5 Stud/Bolt	11mm	120mm			
220-1091	7 Stud/Bolt	1/2 in	6.000 in	5	1/2 in	3.720 in	2 Bolt W/Pin	1/2 in	3.720
220-1092	8 W/Washer	11mm	104mm						
220-1093	8	7/16 in	2.300 in	8	7/16 in	3.200 in			
220-1094	8 W/Washer	10mm	154mm						
220-1095	16 W/Washers	11mm	121mm						
220-1096	16	10mm	127mm						
220-1097	16 W/Washers	11mm	173mm	8 W/Washers	8mm	31mm			
220-1098	20 W/Washers	11mm	173mm	8 W/Washers	8mm	31mm			
220-1099	18 W/Washers	12mm	121mm						
220-1100	10	11mm	164mm	4	8mm	60mm			
220-1101	14 W/Washers	11mm	140mm	1	6mm	89mm	2	6mm	30mm
220-1102	16	11mm	155mm	4	11mm	100mm	10	8mm	45mm
220-1103	20	11mm	100mm	10	8mm	45mm			
220-1104	10	11mm	94mm	4	11mm	75mm	12	11mm	41mm
220-1105	20 W/Washers	12mm	133.5mm	10 W/Washers	8mm	44.5mm			
220-1106	16	12mm	138mm	4	8mm	84mm			
220-1107	24	11mm	103mm	8	11mm	52mm			
220-1108	10 W/Washers	10mm	119mm						

Torque To Yield Head Bolts

SBI Part #	Qty.	Dia.	Length	Qty.	Dia.	Length	Qty.	Dia.	Length
220-1109	18	12mm	148mm						
220-1110	12 W/Washers	11mm	168mm						
220-1111	10	10mm	145mm						
220-1112	10	0.500	4.475	10	0.500	1.975			
220-1113	10	12mm	160mm						
220-1114	10 W/Washer	11mm	97.5mm						
220-1116	10 W/Washers	10mm	117mm						
220-1117	10 W/Washer	12mm	125mm						
220-1118	10	10mm	134mm						
220-1119	10 W/Washers	10mm	147mm						
220-1120	10	10mm	119mm						
220-1121	10	10mm	102mm						
220-1122	8	11mm	107mm	8	11mm	90mm			
220-1123	20	11mm	100mm	10	8mm	45mm			
220-1125	10	11mm	206mm						

Head Saver Shims Numerical Listing

SBI Part #	Description	SBI Part #	Description	SBI Part #	Description
230-2000	Steel - 0.020"	230-2086	Steel - 0.020"	230-2160	Steel - 0.020"
230-2001	Steel - 0.020"	230-2089	Steel - 0.020"	230-2161	Steel - 0.020"
230-2002	Steel - 0.020"	230-2094	Steel - 0.020"	230-2162L	Left, Steel - 0.020"
230-2003	Steel - 0.020"	230-2095	Steel - 0.020"	230-2162R	Right, Steel - 0.020"
230-2004	Steel - 0.020"	230-2097	Steel - 0.020"	230-2163	Steel - 0.020"
230-2005	Steel - 0.020"	230-2100	Steel - 0.020"	230-2164	Steel - 0.020"
230-2006	Steel - 0.020"	230-2104	Steel - 0.020"	230-2165	Steel - 0.020"
230-2007	Steel - 0.020"	230-2105	Steel - 0.020"	230-2166	Steel - 0.020"
230-2008L	Left, Steel - 0.020"	230-2107	Steel - 0.020"	230-2167	Steel - 0.020"
230-2008R	Right, Steel - 0.020"	230-2110	Steel - 0.020"	230-2168	Steel - 0.020"
230-2009	Steel - 0.020"	230-2114L	Left, Steel - 0.020"	230-2169	Steel - 0.020"
230-2011	Steel - 0.020"	230-2114R	Right, Steel - 0.020"	230-2170	Steel - 0.020"
230-2015	Steel - 0.020"	230-2115	Steel - 0.020"	230-2171	Steel - 0.020"
230-2016	Steel - 0.020"	230-2116	Steel - 0.020"	230-2172	Steel - 0.020"
230-2017	Steel - 0.020"	230-2117	Steel - 0.020"	230-2173	Steel - 0.020"
230-2018	Steel - 0.020"	230-2118L	Left, Steel - 0.020"	230-2174	Steel - 0.020"
230-2020	Steel - 0.020"	230-2118R	Right, Steel - 0.020"	230-2175	Steel - 0.020"
230-2021	Steel - 0.020"	230-2120	Steel - 0.020"	230-2176	Steel - 0.020"
230-2022	Steel - 0.020"	230-2121	Steel - 0.020"	230-2177	Steel - 0.020"
230-2024	Steel - 0.020"	230-2122	Steel - 0.020"	230-2178	Steel - 0.020"
230-2025	Steel - 0.020"	230-2123	Steel - 0.020"	230-2179L	Left, Steel - 0.020"
230-2026L	Left, Steel - 0.020"	230-2124	Steel - 0.020"	230-2179R	Right, Steel - 0.020"
230-2026R	Right, Steel - 0.020"	230-2125	Steel - 0.020"	230-2180	Steel - 0.020"
230-2028	Steel - 0.020"	230-2126L	Left, Steel - 0.020"	230-2181	Steel - 0.020"
230-2029	Steel - 0.020"	230-2126R	Right, Steel - 0.020"	230-2182	Steel - 0.020"
230-2030	Steel - 0.020"	230-2127L	Left, Steel - 0.020"	230-2183	Steel - 0.020"
230-2031	Steel - 0.020"	230-2127R	Right, Steel - 0.020"	230-2184	Steel - 0.020"
230-2032	Steel - 0.020"	230-2128	Steel - 0.020"	230-2185	Steel - 0.020"
230-2033	Steel - 0.020"	230-2129	Steel - 0.020"	230-2186	Steel - 0.020"
230-2037	Steel - 0.020"	230-2130L	Left, Steel - 0.020"	230-2187	Steel - 0.020"
230-2038	Steel - 0.020"	230-2130R	Right, Steel - 0.020"	230-2188	Steel - 0.020"
230-2039	Steel - 0.020"	230-2131	Steel - 0.020"	230-2189	Steel - 0.020"
230-2041	Steel - 0.020"	230-2132	Steel - 0.020"	230-2190	Steel - 0.020"
230-2042	Steel - 0.020"	230-2133	Steel - 0.020"	230-2191L	Left, Steel - 0.020"
230-2045	Steel - 0.020"	230-2135	Steel - 0.020"	230-2191R	Right, Steel - 0.020"
230-2047	Steel - 0.020"	230-2136	Steel - 0.020"	230-2192	Steel - 0.020"
230-2048	Steel - 0.020"	230-2137L	Left, Steel - 0.020"	230-2193	Steel - 0.020"
230-2049	Steel - 0.020"	230-2137R	Right, Steel - 0.020"	230-2194	Steel - 0.020"
230-2050	Steel - 0.020"	230-2138	Steel - 0.020"	230-2195L	Left, Steel - 0.020"
230-2052L	Left, Steel - 0.020"	230-2139	Steel - 0.020"	230-2195R	Right, Steel - 0.020"
230-2052R	Right, Steel - 0.020"	230-2140	Steel - 0.020"	230-2196	Steel - 0.020"
230-2053	Steel - 0.020"	230-2141	Steel - 0.020"	230-2197	Steel - 0.020"
230-2056	Steel - 0.020"	230-2142	Steel - 0.020"	230-2198	Steel - 0.020"
230-2058	Steel - 0.020"	230-2143	Steel - 0.020"	230-2199	Steel - 0.020"
230-2059	Steel - 0.020"	230-2144	Steel - 0.020"	230-2200L	Left, Steel - 0.020"
230-2060	Steel - 0.020"	230-2145	Steel - 0.020"	230-2200R	Right, Steel - 0.020"
230-2063	Steel - 0.020"	230-2146	Steel - 0.020"	230-2201	Steel - 0.020"
230-2065	Steel - 0.020"	230-2147	Steel - 0.020"	230-2202	Steel - 0.020"
230-2066	Steel - 0.020"	230-2148	Steel - 0.020"	230-2203	Steel - 0.020"
230-2067	Steel - 0.020"	230-2149	Steel - 0.020"	230-2204L	Left, Steel - 0.020"
230-2068	Steel - 0.020"	230-2150	Steel - 0.020"	230-2204R	Right, Steel - 0.020"
230-2069	Steel - 0.020"	230-2151	Steel - 0.020"	230-2205L	Left, Steel - 0.020"
230-2072L	Left, Steel - 0.020"	230-2152	Steel - 0.020"	230-2205R	Right, Steel - 0.020"
230-2072R	Right, Steel - 0.020"	230-2153	Steel - 0.020"	230-2206	Steel - 0.020"
230-2073	Steel - 0.020"	230-2154	Steel - 0.020"	230-2207L	Left, Steel - 0.020"
230-2080	Steel - 0.020"	230-2155	Steel - 0.020"	230-2207R	Right, Steel - 0.020"
230-2081	Steel - 0.020"	230-2156	Steel - 0.020"		
230-2082	Steel - 0.020"	230-2157	Steel - 0.020"		
230-2083	Steel - 0.020"	230-2158	Steel - 0.020"		
230-2085	Steel - 0.020"	230-2159	Steel - 0.020"		

Heat Tabs and Adhesive

SBI Part #	Application
231-1000	ADHESIVE / 3.0 oz Tube
231-1001	HEAT TAB / 250-255 Degrees
231-1002	HEAT TAB / 225-230 Degrees
231-271L	Loctite 271 / 36 ml
231-640L	Loctite 640 / 36 ml

Injector Tubes and Components

SBI Part #	Description	Material
240-1000	Water Director	Brass
240-1002	Injector Tube	Copper
240-1003	Injector Tube	Stainless Steel
240-1003R	O-Ring	Viton
240-1004	Injector Tube	Copper
240-1005	Injector Tube	Stainless Steel
240-1006	Injector Tube	Stainless Steel
240-1006RB	O-Ring	Viton
240-1006RM	O-Ring	Aflas
240-1006RT	O-Ring	Viton
240-1008	Injector Tube	Copper
240-1009	Injector Tube	Copper
240-1009R	O-Ring	Viton
240-1010	Injector Tube	Copper
240-1011	Injector Tube	Stainless Steel
240-1011R	O-Ring	Viton
240-1012	Injector Tube	Copper
240-1013	Injector Tube	Copper
240-1013R	O-Ring	Viton
240-1014	Water Director	Copper
240-1015	Water Director	Copper
240-1016	Water Director	Steel
240-1017	Injector Tube	Copper
240-1017R	O-Ring	Viton
240-1018	Injector Tube	Copper
240-1018R	O-Ring	Viton
240-1019	Injector Tube	Stainless Steel
240-1019R	O-Ring	Silicon
240-1020	Injector Tube	Cast Iron
240-1021	Injector Tube	Cast Iron
240-1023	Injector Tube	Cast Iron
240-1024	Injector Tube	Brass
240-1025	Injector Tube	Stainless Steel
240-1026	Injector Tube	Brass
240-1027	Injector Tube	Stainless Steel
240-1028	Injector Tube	Copper
240-1030	Injector Tube	Stainless Steel
240-1030CU	Injector Tube	Copper
240-1030R	O-Ring	Viton
240-1031	Injector Tube	Brass
240-1032	Injector Tube	Copper
240-1033	Injector Tube	Stainless Steel
240-1034	Injector Tube	Stainless Steel
240-1034GP	Glow Plug Sleeve	Stainless Steel
240-1035	Injector Tube	Stainless Steel
240-1035R	O-Ring	Aflas
240-1035SH+007	Injector Tube Shim, 0.007 Thick	Stainless Steel
240-1035SH+012	Injector Tube Shim, 0.012 Thick	Stainless Steel
240-1035SH+018	Injector Tube Shim, 0.018 Thick	Stainless Steel
240-1036	Injector Tube	Stainless Steel
240-1036RB	O-Ring	Aflas
240-1036RT	O-Ring	Viton
240-1037	Injector Tube	Stainless Steel
240-1037RB	O-Ring	EPDM
240-1037RT	O-Ring	Viton
240-1038	Injector Tube	Stainless Steel
240-1039	Injector Tube	Stainless Steel
240-1040	Injector Tube	Stainless Steel
240-1040RB	O-Ring	Nitrile
240-1040RT	O-Ring	Viton
240-1041	Injector Tube	Stainless Steel
240-1041RB	O-Ring	Aflas

Injector Tubes and Components

SBI Part #	Description	Material
240-1041RT	O-Ring	Viton
240-1042	Injector Tube	Stainless Steel
240-1043	Injector Tube	Stainless Steel
240-1044	Injector Tube	Stainless Steel
240-1045	Injector Tube	Stainless Steel
240-1045R	O-Ring	Aflas
240-1046R	O-Ring	Viton
240-1047	Injector Tube	Stainless Steel
240-1047R	O-Ring	Viton
240-1048	Injector Tube	Stainless Steel
240-1048RTR	Injector Tube Retaining Ring	Iron
240-1049	Injector Tube	Stainless Steel
240-1050	Injector Tube	Copper
240-1051	Injector Tube	Stainless Steel
240-1051R	O-Ring	Viton
240-1052	Injector Tube	Copper
240-1053	Injector Tube	Stainless Steel
240-1054	Injector Tube	Stainless Steel
240-1055	Injector Tube	Stainless Steel
240-1056	Injector Tube	Stainless Steel

Buyer's Guide

Make Code Abbreviations

Make	Make Code	Make	Make Code
ACURA	ACU	LEXUS	LEX
ALLIS-CHALMERS	ALL	MACK	MAC
AUDI	AUD	MASSEY FERGUSON	MFT
BMW	BMW	MAZDA	MAZ
BUDA	BUD	MAZDA INDUSTRIAL	MAI
CASE	CAS	MERCEDES-BENZ PASSENGER CAR	MBZ
CATERPILLAR	CAT	MERCEDES-BENZ HEAVY DUTY	MBD
CHRYSLER PASSENGER CAR/TRUCK	CHR	MERCEDES-BENZ PASSENGER TRUCK	MBT
CHRYSLER INDUSTRIAL	CHI	MERCURY MARINE	MER
CHRYSLER MARINE	CHM	MINI	MIC
CLIMAX	CLI	MINNEAPOLIS MOLINE	MIN
CONTINENTAL	CON	MITSUBISHI	MIT
CUMMINS	CUM	MITSUBISHI INDUSTRIAL	MII
DAEWOO	DAE	MWM	MWM
DETROIT DIESEL	DET	NEW HOLLAND	NHL
FIAT	FIA	NISSAN	NIS
FORD INDUSTRIAL	FOI	NISSAN INDUSTRIAL	NII
FORD TRACTOR	FTR	OLIVER TRACTOR	OLI
FORD PASSENGER CAR	FOC	OMC MARINE	OMC
FORD TRUCK	FOT	PACCAR	PCR
GM INDUSTRIAL	GMI	PERKINS	PER
GM PASSENGER CAR	GMC	SAAB	SAB
GM TRUCK	GMT	SCION	SCI
HARLEY DAVIDSON	HAR	SHIBAURA	SHB
HERCULES	HER	STUDEBAKER	STU
HINO	HIN	SUBARU	SUB
HONDA	HON	SUPERIOR	SUP
HYUNDAI	HYU	SUZUKI	SUZ
I.H.C. TRACTOR & POWER UNITS	IHC	THERMO KING	THE
I.H.C. / NAVISTAR	IHN	TOYOTA	TOY
INFINITI	INF	TOYOTA INDUSTRIAL	TOI
ISUZU INDUSTRIAL	ISI	VOLKSWAGEN	VKW
ISUZU	ISU	VOLVO	VOL
IVECO	IVE	VOLVO HEAVY DUTY	VHD
JAGUAR	JAG	VOLVO INDUSTRIAL	VOI
JOHN DEERE	JON	WAUKESHA	WAU
KIA	KIA	WISCONSIN	WIS
KOMATSU	KOM	WITTE	WIT
KUBOTA	KUB	YANMAR	YAN
LAND ROVER	LRV		

Application Buyers Guide

SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.
GUIDE		GUIDE (Cont'd)		GUIDE (Cont'd)	
140-1337	CHI 5, 6, 7, 8, 9, 12, 14, 15, 16, 17, 18, 19, 20, 23, 24, 25, 26, 27, 28, CHM 6, 7, CHR 70, 77, 80, 81, 87, 89	140-1813	CAS 22	140-1968	IHC 45
140-1338	CHI 5, 6, 7, 8, 9, 12, 14, 15, 16, 17, 18, 19, 20, 23, 24, 25, 26, 27, 28, CHM 7, CHR 70, 77, 80, 81, 87, 89	140-1814	CAS 22	140-1969	CUM 40, 41, 45, 46, 47, 60, KOM 18, 26
140-1342	CHR 28	140-1817	CHR 132, IHN 53, 54, 69, 77, 78, 83, 84	140-1970	CON 38, 39
140-1411	GMC 167	140-1821	GMC 161, 186, 198	140-1972	GMC 199, 200, 201, 208, 214, 215, 221, MER 12, 14
140-1421	ALL 14, 15, 16	140-1823	CUM 5, 6, 7, 15, 18, 19, 20, 21, 22, 23	140-1973	GMC 199, 200, 201, 208, 214, 215, 221, MER 12, 14
140-1453	GMC 109, GMT 42	140-1829	CAS 21, 23, 26, 31, 33, 34, 35, 36, GMC 198	140-1974	MIN 1
140-1458	CAS 3	140-1830	CAS 24, 30, 32	140-1976	MFT 18, PER 21
140-1470	CON 41	140-1832	DET 1, 6	140-1977	MFT 18, PER 21
140-1476	GMC 109, GMT 42	140-1833	CAS 7, CON 35, MFT 11	140-3000	NII 6, 10
140-1503	STU 1	140-1839	CHI 40, 41, 43, 44, 49, 50, CHM 20, CHR 117	140-3001	NII 6, 10
140-1504	CHR 28	140-1851	ALL 9, 12, 17, 21, 22, BUD 5, 6, 21, 22	140-3006	IHC 51, IHN 59, 71, 81
140-1515	CAS 16, CHR 75, CON 36, 37, 44, 45, 46, 47	140-1852	ALL 9, 12, 17, 21, 22, BUD 5, 6, 21, 22	140-3007	CAT 81, 83, 84, 85, 88, 90, 95, 98, 103
140-1527	GMC 109, 127, GMT 42, 54, 61	140-1853	ALL 14, 15, 16	140-3008	CUM 36, 37, 38, 42, 43
140-1543	IHC 2, 3	140-1854	ALL 1, 2, 3, 4, 5, 6, 7, 8, 11	140-3009	GMC 55, GMT 14, ISU 13
140-1544	IHC 6, 10	140-1857	JON 49	140-3010	DAE 2, 3, GMC 49, 86, 97, GMT 31, ISU 12, SAB 9, 11, 12, SUZ 11
140-1545N	IHC 6, 10, 12, 13	140-1858	JON 5	140-3011	DAE 2, 3, GMC 49, 86, 97, GMT 31, ISU 12, SAB 9, 11, 12, SUZ 11
140-1546	IHC 23, 26, 29	140-1859	JON 6	140-3012	FOC 19
140-1547N	IHC 23, 25, 26, 29	140-1860	JON 7, 22	140-3014	CAT 79, 80, 87, 97
140-1568	HER 1	140-1865	CAS 23, 26, 31, 33, 34, 35, 36	140-3015	GMC 140, GMT 62, 63, 64
140-1577	CAS 6	140-1872	CAS 2, 5, 8, 9, 10, 11	140-3016	GMC 140, GMT 62, 63, 64
140-1578	IHC 38	140-1873	CAS 10, 12, 14	140-3019	CHR 51
140-1579	IHC 27	140-1874	CAS 12, 13, 14, 15	140-3020	GMC 42
140-1593	WAU 5	140-1875	CAS 13, 15	140-3021	CHR 109, CUM 11, 12
140-1600	JON 29	140-1878	GMC 161, 186, 198	140-3022	CHR 109, CUM 11, 12
140-1614	FOC 61, FOT 41, FTR 1, 2, 3	140-1880	GMC 107	140-3023	CHR 67, 78
140-1618	HER 4	140-1881	IHC 11, 15, 20, 31, 34, IHN 31	140-3024	GMT 139, MER 13
140-1619	CON 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 14	140-1888	CAT 34, 35, 53, 54	140-3025	GMT 139, MER 13
140-1620	CAS 1, CON 17, 18, 19, 20, 24, 25, 26, 27, 29, 30, 31, 32, 50, 51, 52, 53	140-1896	JON 16	140-3026	CHR 76, 94, MIT 38, 40
140-1636	IHC 1	140-1897	JON 30, 35, 48, 52, 53	140-3026H	CHR 76, 94, MIT 38, 40
140-1639	CHR 50	140-1898	JON 40, 41, 42, 57, 59, 60, 61	140-3027	JON 76
140-1644	JON 50	140-1899	JON 16	140-3028	FOC 45, JAG 1
140-1673	CAS 2, 4, 5, 8, 9, 11	140-1906N	CAT 31, 32, 36, 37, 52, 55	140-3029	GMC 51, 52, 56, 57, 63, 64, 65, 66, 67, 68, GMT 15, 16, 17, 18, 19, SAB 5
140-1678	CON 1	140-1907	WIS 3	140-3031	CHR 106
140-1680	DET 2	140-1908	WIS 7	140-3032	CHR 106
140-1689	STU 2	140-1909	WIS 1, 2, 4, 5	140-3033	CHR 109, 127, CUM 4, 11, 12, 16
140-1690	STU 2	140-1914	MIN 2, 3, 4, 6, 8	140-3034	CHR 109, 127, CUM 4, 11, 12, 16
140-1697	HER 3	140-1919	CHR 86, 93, 103	140-3035	CAT 106, 108, 115, 117, 121, 123, 126, 128, 129
140-1703	BUD 1, 2, 3, 4, 10, 11, 12, 17, 18, 20, 25, 26, 27, 28, 34	140-1923	OLI 3	140-3036	CAT 106, 108, 115, 117, 121, 123, 126, 128, 129
140-1711	CAT 34, 35, 53, 54	140-1924	OLI 3	140-3037	CAT 45, 46, 65, 67
140-1717	CON 15, 21, 22, 28, MFT 2, 3, 4, 5	140-1927	OLI 2	140-3038	CAT 50, 51
140-1723	WIS 1, 2, 3, 4, 5	140-1932	JON 58	140-3039	CAT 50, 51
140-1726	FOI 1, 2, 3, 5, FTR 4, 5, 6, 11, 12, 13, 14	140-1937	GMC 203, 207	140-3042	CAT 107, 116, 122, 130
140-1732	GMC 109, 127, GMT 42, 54, 61	140-1941	CUM 34, 35, 48, 50, 53	140-3043	MAC 13
140-1733	GMC 203, 207	140-1941SA	CUM 34, 35, 48, 50, 53	140-3046	DAE 1, GMC 24
140-1740	CHR 107, 122, GMT 58	140-1943	ALL 10, 18, 23, BUD 8, 9, 23, 24	140-3047	FOC 72, FOT 54, 70, 92
140-1745	GMC 183, 197, 218	140-1944	ALL 10, 18, 23, BUD 8, 9, 23, 24	140-3048	FOC 48, FOT 27, MAZ 50
140-1747	IHC 9, 12, 13, 16, 18, 24, 30, 32, 33, IHN 7, 8, 9, 16, 17, 18, 23, 25	140-1946	DET 6, 18	140-3049	GMT 127
140-1803	CHR 107, 122, GMT 58	140-1947	WAU 1	140-3050	JON 77, 78, 79
140-1804	IHC 2, 3, 4, 5, 7	140-1952	WAU 2	140-3051	CAT 78, 82, 86, 89, 96, 99
140-1809	MAC 6, 7, 8, 9	140-1953	OLI 1, WAU 2	140-3052	CAT 78, 82, 86, 89, 96, 99
140-1810	MAC 4, 7, 8	140-1954	OLI 1		
		140-1956	MFT 1, 6, 7, 8, 10, 13, 14, PER 2, 3, 7, 8, 10, 11, 17, 18, 35		
		140-1957	IHC 43, 44, 46, 47, IHN 57, 58		
		140-1962	CON 7, 16, 23, 33, 34, 56		
		140-1965	WAU 3		
		140-1966	FOI 2, 4, FTR 11		

Application Buyers Guide

SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.
	GUIDE (Cont'd)		GUIDE (Cont'd)		GUIDE (Cont'd)
140-3053	GMC 103, 104, 128, 129, 130, 131, 160, 174, 175, 180, 181, 182, 187, 188, 189, 190, 191, 192, GMT 41, 55, 56, 72, 73, 74, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 102, 103, 104, 105, 106, 107, 108, 109, 115, 116, 117, ISU 33, 34, 37, 38, 39, SAB 14, 15	140-3097	CAT 15, 16, 28, MII 9, 11	140-3163	FOT 90
140-3053H	GMC 103, 104, 128, 129, 130, 131, 160, 174, 175, 180, 181, 182, 187, 188, 189, 190, 191, 192, GMT 41, 55, 56, 72, 73, 74, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 102, 103, 104, 105, 106, 107, 108, 109, 110, 115, 116, 117, ISU 33, 34, 37, 38, 39, SAB 14, 15	140-3098	CHR 52	140-3164	CAT 17, 27, 44, 48
140-3053U	GMC 103, 104, 128, 129, 130, 131, 160, 174, 175, 180, 182, 187, 188, 189, 190, 191, 192, GMT 41, 55, 56, 72, 73, 74, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 102, 103, 104, 105, 106, 107, 108, 109, 115, 116, 117, ISU 33, 34, 37, 38, 39, SAB 14, 15	140-3099	MFT 1, 9, PER 2, 3, 9	140-3165	CHR 118
140-3054	ISI 3, 7, ISU 31, 40	140-3100	MFT 8, 10, 13, 14, PER 10, 11, 17, 18	140-3166	FOC 79, FOT 64
140-3055	FOT 51, 80, 86, IHN 29, 45, 47	140-3101	ISI 4, 8, ISU 32, 41	140-3168	MIC 7, 8
140-3056	GMC 147, 148, 149, GMT 69	140-3102	MI 7, 10	140-3169BR	MIC 2, 3, 8
140-3057	GMC 147, 148, 149, GMT 69	140-3103	KUB 4	140-3170	FOC 54, 55, FOT 34, 35, 37
140-3058	CAT 57, 71, 74	140-3104	KUB 4	140-3174	CAT 82
140-3059	CAT 14, 20, 21, 25, 26, 38, MFT 12, 21, 26, 34, 39, PER 15, 16, 26, 30, 31, 32, 33, 34, 44, 47	140-3105	CAT 13, PER 12, 13, 14	140-3175	MBD 6, 7
140-3060	CAT 20, 21, 38, MFT 21, 26, 34, 39, PER 26, 30, 44, 47	140-3112	GMC 81, 87, 110, 112, 113, 114, 115, GMT 26, 32, 33, 43, 45, 46, SAB 10, SUZ 18, 19	140-3176	DET 5, 7, 8, 9, MBD 1, 2, 4, 5
140-3061	CUM 44, 49, 54, 55, 56	140-3118	SAB 6, 8, SUB 10, 19, 21, 22	140-3177	IHN 88
140-3063	ALL 19, 20, CAT 18, 19, 39, 40, MFT 15, 16, 17, 19, 20, 22, 23, 24, 25, 28, 29, 30, 31, 32, 33, 35, 36, 37, 38, PER 19, 20, 22, 23, 24, 25, 27, 28, 29, 37, 38, 39, 40, 41, 42, 43, 45, 46, 48, 49	140-3119	SAB 6, 8, SUB 10, 19, 21, 22	140-3178	DET 14, 16, 17
140-3064	ALL 19, 20, CAT 18, 19, 39, 40, MFT 15, 16, 17, 19, 20, 22, 23, 24, 25, 28, 29, 30, 31, 32, 33, 35, 36, 37, 38, PER 19, 20, 22, 23, 24, 25, 27, 28, 29, 37, 38, 39, 40, 41, 42, 43, 45, 46, 48, 49	140-3123	CAT 57	140-3179	GMC 6, 7, 11, 33, GMT 1
140-3066	FOC 48, FOT 27, MAZ 50	140-3127	GMT 10, 22, SUZ 9, 12, 15, 17	140-3180	VOL 1, 2, 20, 21, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 40, 41, 42
140-3067	GMC 94, 102, GMT 37	140-3128	SUZ 14	140-3181	CUM 1, KOM 4, 5, 6, 7, 8, 9, 14, 15, 16
140-3068	CUM 28, 29	140-3129	KIA 1, 4	140-3182	CHR 65, 71, 72
140-3068SA	CUM 28, 29	140-3130	TOY 61	140-3183	KOM 19, 20, 21
140-3070	FOC 20, 22, 30, 34, 35, 36, FOT 7, 10, 15, 16, 19, 20, MAZ 26, 27, 33, 36, 37, 38	140-3131	JON 74	140-3184	KOM 22, 23, 24, 25
140-3071	MBD 3	140-3132	WAU 11	140-3185	YAN 21, 22
140-3072	MBD 3	140-3133	WAU 11	140-3186	YAN 21, 22
140-3074	VOI 1, 2, 4	140-3134	GMC 35, LEX 1, 4, 13, 14, 15, 21, 22, 24, 26, SCI 3, 5, TOY 25, 27, 55, 56, 60, 74, 76, 80, 83, 85, 86	140-3187	YAN 14, 16
140-3075	VOI 5, 6	140-3135	GMC 35, LEX 1, 4, 5, 13, 14, 15, 16, 21, 22, 24, 26, SCI 3, 5, TOY 25, 27, 55, 56, 60, 74, 75, 76, 77, 80, 83, 85, 86	140-3188	JON 11, YAN 8
140-3076	VOI 3, 5, 6	140-3136	ACU 9, 10, 13, 14, 15, 16, HON 31, 32, 33, 72, 73, 82, 85, 86, 87, 88, 89, 90, 91, 92, 93	140-3189	KOM 12, 13, YAN 17, 18, 19, 20
140-3077	MWM 1	140-3137	ACU 9, 10, 13, 14, 15, 16, HON 73, 85, 86, 87, 88, 89, 90, 91, 92, 93	140-3190	JON 1, 2, 3, 4, 8, 9, 10, 12, 13, KOM 1, 2, THE 2, 3, YAN 1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12
140-3079	IHN 72, 86	140-3138	CAT 78, 79, 82, 86, 89, 96, 99	140-3191	JON 1, 2, 3, 4, 8, 9, 10, 12, 13, KOM 1, 2, 3, 10, THE 2, 3, YAN 1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 15
140-3080	CHR 109, 127, CUM 4, 11, 12, 16	140-3139	CAT 108, 109, 117, 118, 123, 124, 126, 127	140-3192	CAT 23, 41
140-3081	CHR 109, 127, CUM 4, 11, 12, 16	140-3140	CAT 108, 109, 117, 118, 123, 124, 126, 127	140-3193	CAT 23, 41
140-3086	NII 20	140-3141	JON 43, 66	140-3194	CAT 58
140-3088	NII 16	140-3142	GMT 127	140-3195	CAT 108, 109, 117, 118, 123, 124, 126, 127
140-3089	NII 16	140-3143	CAT 106, 108, 115, 117, 121, 123	140-3196	JON 44, 67
140-3091	NII 17	140-3144	CAT 106, 108, 115, 117, 121, 123	140-3197	JON 44, 67
140-3092	NII 17	140-3145	CAT 78, 79, 80, 86, 87, 96, 97	140-3202	CAT 2, 3, 8, 9, 10, 11, NHL 1, 2, 3, PER 1, 5, 6, SHB 1, 2, 3
140-3093	NII 13, 18	140-3149	CHR 94	140-3203	FOT 82
		140-3152	HYU 30, 31, 34, 35, 36, 37, KIA 26, 27, 29, 31	140-3204	GMT 66, 90
		140-3154	CHR 16, 21, 36, 37, HYU 13, 17, 22, 23, 24, KIA 13, 15, 20, 21, 22, MIT 18, 19, 20, 27	140-3207	VVD 4
		140-3156	CHR 106, 123, 124	140-3208	CAT 22, 42
		140-3157	MAC 3, 14, VVD 1, 2, 3	140-3209	IVE 1
		140-3158	CUM 50	140-3210	IVE 1
		140-3158SA	CUM 50	140-3211	PCR 1, 2
		140-3159BR	AUD 8, 9, 12, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 44, 46, 48, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 67, 68, 69, 70, 71, 72, 75, 76, 77, 78, 79, 80, 82, 83, 84, 85, 86, 87, 93, 94, 95, 96, 97, 98, 99, 100, 101, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122 (cont'd)	140-3212	HIN 2, 3, 4, 13, 15, 16
		140-3162	MAZ 34	140-3213	GMC 6, 7, 11, GMT 1
				140-3214H	FOC 3, 5, FOT 2, 3
				140-4941	IHC 27
				140-4944	IHC 53
				140-5379	CLI 1
				140-5604	FOC 62, 76, FOT 42, 47, GMC 84, 85
				140-5606	CHR 62, FOC 62, 68, 69, 76, 82, 97, 98, FOI 12, 13, 18, FOT 42, 47, 56, 61, 71, 72, 100, GMC 78, 95, 99, 125, 126, 134, 141, 146, 150, 152, 162, 163, 164, 169, 196, 211, 217, GMT 23, 35, 53, 67, 70, 94

Application Buyers Guide

SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.
GUIDE (Cont'd)		GUIDE (Cont'd)		GUIDE (Cont'd)	
140-5607	CHR 44, FOC 63, 67, 75, 77, 78, 86, 88, 93, FOI 9, 14, FOT 38, 39, 43, 46, 47, 50, 55, 56, 57, 58, 59, 62, 63, 73, 74, 75, 87, GMC 71, 72, 73, 74, 75, 76, 77, 78, 95, 96, 98, 108, 118, 119, 120, 121, 122, 123, 124, 125, 133, 141, 144, 150, 151, 154, 155, 156, 157, 162, 163, 164, 166, 177, 196, 211, GMT 20, 23, 35, 36, 51, 52, 59, 67 (cont'd)	140-6977	FOC 32, 41, 53, 66, 68, FOI 6, 7, FOT 18, 23, 30	140-7495	NII 3, 5, 14
140-5610	CHI 32, 36, CHR 82, 83, 98, 99, 100, 101, 102	140-6990	IHC 9, 16, 18, 24, 30, 32, 33	140-7498	NII 3, 5, 14, NIS 1
140-5612	GMC 196, GMT 75	140-7073	CAT 93, 94, 104, 105, 113, 114, 119, 120	140-7499	NIS 9, 20, 26, 27, 28, 29, 42, 46, 47, 48, 49
140-5745	ALL 28, 29, 34	140-7073H	CAT 93, 94, 104, 105, 113, 114, 119, 120	140-7523	TOY 40, 45, 46, 47, 48
140-6053	WIS 6	140-7074H	CAT 93, 94, 104, 105, 113, 114, 119, 120	140-7527	TOI 13, TOY 78, 81
140-6105	CHR 74, FOC 57, 69, 76, 82, FOI 8, 12, 13, FOT 36, 50, 56, FTR 21, GMC 96, 117, 120, 121, 122, 123, 124, 125, 196, 225, 226, GMT 52	140-7083	CAT 93, 94, 104, 105, 113, 114, 119, 120	140-7528	TOI 13, TOY 78, 81
140-6107	GMT 71, 76, 77, 95, 96, 97, 123	140-7174	IHN 55, 66	140-7529	TOI 10, 11, TOY 78, 79, 81
140-6108	CHI 2, 3, 10, 11, 29, 32, 36, CHR 53, 64, 66, 73, 74, 79, 82, 83, 88, 91, 92, 95, 96, 97, 98, 99, 100, 101, 102, 104, 105, 110, 111, 113, 114, 116, 117, 121, 126, 128, 130, FOC 85, 89, 91, 92, 94, 96, FOI 18, FOT 61, 62, 63, 71, 76, 78, 84, GMC 170, 210, IHC 19, IHN 10, 11, 12, 13, 21, 49	140-7194	CAT 45, 46, 56, 65, 67, 69	140-7532	TOI 10, 11, TOY 78, 79, 81
140-6109	FOC 91, FOI 15, 16, 19, FOT 65, 66, 77, 79, 83	140-7194SA	CAT 45, 46, 56, 65, 67, 69	140-7542	NII 1, 2, 4, NIS 2, 3, 4, 5
140-6110	CHR 92, 96, GMC 210	140-7197	FOI 21, 25, FOT 88, 103, 104, 105	140-7545	NII 1, 2, 4, NIS 3, 4, 5
140-6113	CHI 2, 10, 29, 52, CHR 53, 64, 73, 91, 98, 99, 100, 101, 104, 110, 116, 117, 120, 125, 126, 130, 131, GMC 170, 203, 219, 223	140-7198	FOC 42, FOT 24, 25, 44, MAZ 53	140-7548	IHC 8, 14, 17, 21, 22, 28, 36, 40
140-6114	GMC 203, 219, 223	140-7208	GMT 111, 112	140-7550	CAT 119
140-6115	GMT 100, 101, 118, 124, 125, 132, 136, 137, 138	140-7216	CAT 78, 79, 86, 96	140-7552	DET 10
140-6116	GMT 100, 101, 118, 124, 125, 132	140-7216SA	CAT 78, 79, 86, 96	140-7562	GMC 172, GMT 99
140-6119	FOI 15, 18, 19, 20, FOT 50, 56, 61, 66, 71, 77, 79, 83, 85	140-7242	CAT 31, 32, 36, 37, 52, 55	140-7563	DET 4
140-6201	WAU 8	140-7248	JON 14, 18, 19, 20, 23, 24, 27, 31, 34, 36, 37, 39, 45, 49, 51, 55, 56, 62, 63, 68, 69	140-7564	DET 4
140-6202	WAU 8	140-7255	CAT 76, 77, 91, 102, 110	140-7574	CHR 18, 24, 25, 33, 48, 49, MAZ 44, MII 3, 4, 5, 6, MIT 9, 10, 13, 14, 23, 24, 29, 30
140-6254	DET 1, 3	140-7259	GMC 135, GMT 75	140-7575	CHR 18, 24, 25, 33, 48, 49, HYU 20, MAZ 44, MII 3, 4, 5, 6, MIT 9, 10, 13, 14, 23, 24, 29, 30
140-6452	CUM 52, 61, KOM 27	140-7260	GMC 210	140-7576	CHR 8, 9, 10, 14, 55, HYU 20, 28, MII 1, 2, 8, MIT 5, 8, 31
140-6469	CAT 75, 92, 100, 101, 111, 112	140-7264	CUM 52, 61, KOM 27	140-7577	CHR 8, 9, 10, 14, 55, HYU 28, MII 1, 2, 8, MIT 5, 8, 31
140-6470	CAT 75, 92, 100, 101, 111, 112	140-7271	GMC 162	140-7589	CHR 4, 5, 6, 7, HYU 2, 3, MIT 1, 2, 3, 4
140-6479	SUP 1	140-7272	GMC 162	140-7592	MAC 4, 6, 7, 8, 9
140-6523	GMC 142, 153, 184, 185, 204, 213, 224	140-7272	GMC 162	140-7604	CAT 75, 92, 100, 101, 111, 112
140-6529	WIT 1	140-7298	CHR 110, 126, FOC 89, 92, 94, 95, 96, FOI 10, 16, FOT 49, 65, 76, 78, 84	140-7610	CUM 57
140-6546	DET 19	140-7336	IHN 85	140-7625	CAS 40, CUM 36, 37
140-6730	ALL 13, 24, 25, 26, 30, 31	140-7337	CHI 41	140-7625SA	CAS 40, CUM 36, 37
140-6867	CHR 62	140-7338	CAT 75, 92, 100, 101, 111, 112	140-7656	GMT 13, ISI 1, ISU 14, 15
140-6869	FOC 32, 41, 53, 66, 68, FOI 6, 7, FOT 18, 23, 30	140-7357	CAT 93, 94, 104, 105, 113, 114, 119, 120	140-7659	HON 5, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 45
140-6872	FOC 56	140-7359	AUD 1, 2, 3, 5, 7, 14, 39, 40, 42, 47, CHR 13, VKW 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16, 50, 51	140-7661	CHR 29, 30, 31, 46, 47
140-6873	GMC 137, 159, 171, 202, 209, 212, 222	140-7371	MIN 2, 3, 4, 6, 8	140-7662	CHR 29, 30, 31, 46, 47
140-6881	CAT 61, 64, 66, 70	140-7372	MIN 7	140-7669	GMT 136, 137, 138
140-6896H	CHR 129	140-7373	CUM 57	140-7681	CAT 29, 30, 62, 63
140-6897H	CHR 129	140-7376	HER 2	140-7682	CAT 29, 30, 62, 63
140-6905	FTR 8, 9, 10, 15, 16, 17, 18, 19, 22, 23, 25, 26, 27, 29, 30	140-7395	GMT 7	140-7689	FOT 93, 97, 98, IHN 61, 63, 64
140-6913	IHC 54	140-7398	WAU 2	140-7710	HON 55, 56, 57, 58, 59, 60, 61, 62, 63, 64
140-6929	SUP 1	140-7398	WAU 2	140-7712	FOT 93, 97, 98, IHN 61, 63, 64
		140-7408	IHC 1	140-7713	AUD 7, 39, 40, GMC 37, 38, GMT 7, 8, HON 96, ISU 7, 8, 9, 10, 11, 16, 18
		140-7420	MIN 5	140-7714	GMC 37, 38, GMT 7, 8, HON 96, ISU 7, 8, 9, 10, 11, 16, 18
		140-7421	MIN 5	140-7736	CAT 78, 79, 86, 96
		140-7429N	CHR 29, 30, 31, 46, 47	140-7736SA	CAT 78, 79, 86, 96
		140-7431	IHC 37, 41, 42, 48, 49, 50, IHN 39, 40, 60, 62, 73, 74, 75, 76	140-7813	ALL 13, 24, 25, 26, 30, 31
		140-7431SA	IHC 37, 41, 42, 48, 49, 50, IHN 39, 40, 60, 62, 73, 74, 75, 76	140-7822	FOC 11, 13, 14
		140-7444	CAS 27, 37, 38	140-7825	NIS 6, 7, 8, 12, 13, 14
		140-7447	CAT 60, 62, 63	140-7826	NII 7, 11, NIS 19, 23, 30, 31
		140-7448	CAT 60, 62, 63, JON 62, 63, 68, 69	140-7827	NIS 19, 23, 30, 31
		140-7450	MFT 27, PER 36	140-7828	NII 9, NIS 36, 37, 38, 39
		140-7451N	CHR 29, 30, 31, 46, 47	140-7830	HON 5, 9, 10, 15, 16, 17, 18, 19, 20, 21, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64
		140-7456	IHN 82, 87	140-7847	CHR 43, 83, 85, 101, 115
		140-7457	IHN 82, 87	140-7860	IHN 2, 48
		140-7459	CHR 62, GMC 84, 85, 150, 162, 164, 196, MER 2	140-7873	FOC 47, NIS 50, 51
		140-7460	CHR 74, GMC 117, 166		
		140-7476	WAU 7		

Application Buyers Guide

SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.
	GUIDE (Cont'd)		GUIDE (Cont'd)		GUIDE (Cont'd)
140-7876	IHC 35, 39, 45, IHN 1, 2, 32, 33, 37, 38, 48	140-8158	ACU 1, 7, 8, 11, 12, 18, 19, 20, 23, 25, 27, 28, 29, 30, 31, 32, 33, 34, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, GMT 39, HON 1, 6, 7, 8, 22, 23, 24, 25, 26, 27, 28, 29, 30, 34, 35, 37, 38, 39, 40, 41, 42, 46, 47, 48, 49, 50, 52, 53, 54, 69, 70, 71, 76, 77, 78, 79, 83, 94, 98, 99, 100, 101, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113 (cont'd)	140-8217	INF 1, 5, 8, NIS 34, 44, 55, 59, 60, 64, 65, SUZ 16, 20
140-7892	WAU 9, 10, 12	140-8160	KOM 28, 29	140-8218	NIS 16, 25
140-7903	MAC 6, 7, 8, 9	140-8161	TOI 7, 8, 9, 12	140-8219	CHR 67, 78
140-7946	GMC 140, 162, 168, 169, 171, 172, 173, 177, 206, GMT 62, 95, 96, 97, MER 2	140-8168	TOI 7, 8, 9, 12	140-8220	CAT 45, 46, 47, 65, 67, 68
140-7990	CUM 52	140-8169	TOI 5	140-8223	IHN 2, 48
140-7994	CAS 41, CUM 52, 61, KOM 27	140-8170	TOI 1, 2, 3, 4	140-8233	NIS 19, 23, 30, 31
140-7994SA	CAS 41, CUM 52, 61, KOM 27	140-8171	MAI 3, 4	140-8247	CAT 6
140-7999	GMC 173, GMT 96, 97, MER 10, OMC 7	140-8172	KIA 11, MAI 5, 6, MAZ 22, 23, 24, 28	140-8248	CAT 6
140-8004	JON 72, 73, 75	140-8173	FOC 12, KIA 5, 8, 9, MAZ 9, 14	140-8255	ACU 26, 44, GMC 22, 36, HON 102, 103, ISU 3, 4, 6, 23, 24, 25, 26
140-8007	MAC 5, 10, 11, 12	140-8177	CAS 17, 18, 19, 28, 29, CHR 67, 108, CUM 2, 3, 10, GMT 57, KOM 11, 17	140-8256	GMT 112, 133, 135, MER 14
140-8008	MAC 5, 12	140-8177SA	CAS 17, 18, 19, 28, 29, CHR 108, CUM 2, 3, 10, GMT 57, KOM 11, 17	140-8273	LEX 18, TOY 49, 50, 51, 62
140-8010	MAC 5, 10, 11, 12, 13	140-8178	CAS 17, 18, 19, 28, 29, CHR 108, CUM 2, 3, 10, GMT 57, KOM 11, 17	140-8274	FOC 70, 71, 73, 74, 84, 90, FOT 14, 21, 52, 53, 67, 68, 69, 91, MAZ 35, 41
140-8011	WAU 9, 10, 12	140-8178SA	CAS 17, 18, 19, 28, 29, CHR 108, CUM 2, 3, 10, GMT 57, KOM 11, 17	140-8274H	FOC 70, FOT 67, 91
140-8016	GMC 1, 2, 4, GMT 4, SUZ 2, 3, 5, 6	140-8180	GMC 173, 178, GMT 96, 97, MER 10, OMC 7	140-8277	CAS 17, 18, 19, 28, 29, CHR 108, CUM 2, 10, GMT 57, KOM 11, 17
140-8017	FOC 47, NIS 50, 51	140-8186	FOC 7, 8, KIA 6, MAZ 10, 11, 13, 32	140-8291	GMC 21, ISU 5
140-8018	TOY 64	140-8187	FOC 7, 8, KIA 6, 12, MAZ 10, 11, 13, 32	140-8292	GMC 43
140-8020	GMC 20, TOY 4, 5, 12, 19	140-8188	IHC 48, 49, 50, 52, IHN 70, 73, 76, 80	140-8293	GMC 42
140-8021	GMC 20, 43, TOY 4, 5, 12, 19	140-8188SA	IHC 48, 49, 50, 52, IHN 70, 73, 76, 80	140-8319	CAT 78, 79, 86, 96
140-8023	ISI 2, 5, 6, ISU 29, 36	140-8189	GMC 21, 22, 36, ISU 3, 4, 5, 6	140-8324	GMC 3, 5, GMT 5, SUZ 4, 7, 8
140-8024	ISI 9, ISU 42	140-8190	INF 5, 8, NIS 11, 24, 55, 59, 60	140-8347	KUB 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
140-8038	GMC 19, LEX 6, 7, 10, TOY 13, 14, 15, 16, 33, 34, 35, 38, 49, 50, 51, 57, 62, 65, 66, 68, 70, 71, 73	140-8191	NIS 11, 24	140-8348	KUB 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
140-8039	GMC 17, 46, 47, 48, GMI 1	140-8193	CHR 11, 12, 26, 27, 57, 58, HYU 8, 12, 15, 21, 29, 33, KIA 19, 30, MIT 6, 7, 15, 16, 17, 26, 32, 33, 36	140-8356	CAT 62, 63
140-8040	GMC 76, 77, GMT 20, 21	140-8193	CHR 11, 12, 26, 27, 57, 58, HYU 8, 12, 15, 21, 29, 33, KIA 19, 30, MIT 6, 7, 15, 16, 17, 26, 32, 33, 36	140-8357	CAT 62, 63
140-8105	MAC 5, 10, 11, 12	140-8194	TOY 6, 7, 9	140-8388	FOC 47, FOT 32, INF 7, NIS 50, 51, 56, 57
140-8112	GMC 83, 90, 91, 92, 93, 102, GMT 29, 37, ISU 22	140-8195	MAI 1, 2, MAZ 2, 4	140-8389	FOC 47, FOT 32, INF 7, NIS 50, 51, 56, 57
140-8113	GMT 133, 135	140-8200	TOI 6, TOY 32, 41	140-8397	ACU 3, 4, 5, HON 22, 23, 24, 43, 44
140-8114	GMC 44, 45, 55	140-8202	TOI 6, TOY 32, 41	140-8407	GMT 62, 64
140-8115	GMC 44, 45, 55	140-8203	SAB 7, SUB 9, 16, 17, 19, 20	140-8408	CAT 45, 46, 47, 65, 67, 68
140-8122	CAS 39, CUM 28, 29	140-8204	NIS 41	140-8409	FOT 89, 102
140-8122SA	CAS 39, CUM 28, 29	140-8205	FOC 6, MAZ 8, 47	140-8418	CHR 29, 30, 31, 46, 47
140-8124	GMC 58, 59, 61	140-8207	TOY 67	140-8419	CHR 29, 30, 31, 46, 47
140-8133	DET 19	140-8208	TOY 65, 66	140-8420	CUM 8, 9, 13, 14, 24, 25, 26, 27, 32, 33
140-8134	CUM 51	140-8209	TOY 65, 66	140-8476	FOT 99, IHC 51, IHN 59, 64, 65, 71, 81
140-8134SA	CUM 51	140-8210	NII 8, 12, 15, NIS 43	140-8485	CAT 78, 79, 82, 86, 89, 96, 99
140-8139	AUD 41, VKW 14, 24, 25, 26, 27, 36, 56, 57	140-8210	CAS 40, CUM 36, 37	140-8486	CAT 45, 65
140-8142	FOC 23, 24, MAZ 29, 30, 31, 45, 46	140-8210SA	CAS 40, CUM 36, 37	140-8494	CHR 43, 83, 85, 101, 115
140-8143	SUB 3, 4, 5	140-8211	NIS 40, 41	140-8496	CUM 57
140-8144	SUZ 1	140-8212	NIS 40	140-8535	GMC 55, GMT 14, ISU 13
140-8147	GMC 18, 28, HYU 5, 9, KIA 7, LEX 10, TOY 9, 17, 18, 21, 33, 34, 35, 38, 70, 71	140-8213	NIS 16, 25	140-8536	GMC 55, GMT 14, ISU 13
140-8155	ACU 2, 6, HON 65, 66, 67, 75	140-8216	INF 1, NIS 34, 44, 64, 65, SUZ 16, 20	140-8543	INF 4, NIS 52, 53, 54
140-8156	ACU 2, 6, HON 65, 66, 67, 75, 97			140-8544	INF 4, NIS 52, 53, 54
140-8157	ACU 1, 8, 11, 12, 18, 19, 20, 23, 25, 27, 28, 29, 30, 31, 32, 33, 34, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, GMT 39, HON 6, 7, 8, 22, 23, 24, 25, 26, 28, 29, 34, 35, 38, 39, 40, 41, 50, 51, 52, 53, 54, 76, 77, 78, 79, 83, 98, 99, 100, 101, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, ISU 17			140-8545	FOC 59, 60, FOT 39

Application Buyers Guide

SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.
	GUIDE (Cont'd)		GUIDE (Cont'd)		GUIDE (Cont'd)
140-8559	FOC 49, 50	140-9110	CHR 92, 96	140-9715	GMT 119, 120, 121
140-8560	FOC 38, 44, 45, FOT 26, MAZ 43, 49	140-9112	CHR 90	140-9716	GMT 119, 120, 121
140-8561	FOC 15, 33, MAZ 15, 16, 18, 19, 42	140-9113	CHI 2, 3, 10, 11, 29, 45, 47, 48, 52, CHM 1, 2, 5, 9, 10, 15, 17, 21, 22, 23, 24, CHR 53, 64, 73, 91, 98, 104, 110, 120, 125, 130, 131, GMC 170, 203, 219, 223	140-9846	FOC 27, 28, 37, FOT 14, MAZ 35
140-8562	FOT 99, IHN 65	140-9114	GMC 203, 219, 223	140-9848	CHR 43, 85
140-8564	SUB 28	140-9115	GMT 100, 101, 118, 124, 125, 132, 137, 138, JON 14, 18, 19, 20, 23, 27, 31, 34, 36, 39, 45, 49, 51, 55, 56	140-9867	CHR 62, FOC 63, FOI 9, 14, FOT 43, 57, 58, 59, 60, GMC 98, 108, 118, 119, 133, 139, 140, 144, 154, 155, 156, 168, 169, 173, 177, 206, GMT 36, 50, 51, 59, 62, 63, 64, 68, 71, 76, 77, 96, 97, 98, 123, ISU 35, MER 5, 8, 9, 10, OMC 7
140-8565	SUB 28	140-9116	FOI 22, GMT 100, 101, 118, 124, 125, 132	140-9869	FOC 32, 41, 53, 66, FOI 6, 7, FOT 18, 23, 30, 31
140-8569	CHR 45, MIT 34	140-9119	FOI 15, 18, 19, 20, FOT 50, 56, 61, 66, 71, 77, 79, 83, 85	140-9872	CAT 12, FOC 56
140-8571	CHR 15, 34, 35, 59, HYU 10, 13, 14, KIA 10, MIT 11, 21, 25, 28, 35, 37, 39	140-9197	FOI 21, 25, FOT 88, 103, 104, 105, GMT 137, 138	140-9873	GMC 137, 158, 159, 165, 171, 202, 205, 209, 212, 222
140-8572	HYU 4, 25, 26, KIA 23, 24	140-9198	FOC 18, 39, 42, 43, FOT 24, 25, 44, MAZ 53	140-9946	GMC 140, 143, 168, 173, 177, 206, GMT 62, 63, 64, 96, 97, 98, ISU 35, MER 2, 10, OMC 2, 7
140-8573	HYU 4, 25, 26, KIA 23, 24	140-9204	FOC 48, FOT 27, MAZ 50	140-9964	FOI 10, 20, FOT 49, 85
140-8574	FOC 60, FOT 39, 40, 48	140-9205	FOC 9, 10	140-9972	GMC 220, GMT 122, 126, 130, 131, 134
140-8575	FOC 60, FOT 39, 48	140-9206	FOC 25, 26, 27, 28, 29, 37, FOT 8, 12, 13, 14, MAZ 35	140-9972H	GMT 133, 134
140-8577	ACU 3, 4, 5, HON 22, 23, 24, 43, 44	140-9208	GMT 111, 112	140-9973	GMC 220, GMT 111, 112, 122, 126, 130, 131, 133, 134, 135
140-8578	ACU 6	140-9259	GMC 135, GMT 75	140-9977	CAT 12, FOC 32, 41, 56, 66, FOI 6, FOT 18, 23, 30, 31
140-8579	ACU 6	140-9260	GMC 210	149-1000	CAT 75, 92, 93, 94, 100, 101, 104, 105, 111, 112, 113, 114, 119, 120
140-8580	HON 84	140-9298	CHR 110, 126, FOC 89, 92, 94, 95, 96, FOI 10, 16, 17, FOT 49, 65, 76, 78, 84, 94	149-1001	FOC 61, FOT 41, FTR 1, 2, 3
140-8581	HON 84	140-9458	JON 62, 63, 68	340-1007BR	ACU 3, 4, 5, HON 22, 23, 24, 43, 44
140-8582	HON 80, 81	140-9458H	JON 70, 71	340-1008BR	ACU 3, 4, 5, HON 22, 23, 24, 43, 44
140-8583	HON 80, 81	140-9459	CHR 62, FOT 95, 96, 101, GMC 84, 85, 150, 162, 164, 196, MER 2, OMC 2	340-1011BR	GMC 30, TOY 24
140-8584	GMC 29, LEX 9, 18, 19, 23, TOY 23, 69, 72, 84	140-9460	CHR 74, GMC 117, 151, 166	340-1013BR	CHR 11, 12, 26, 27, 57, 58, HYU 8, 12, 15, 21, 29, 33, KIA 19, 30, MIT 6, 7, 15, 16, 17, 26, 32, 33, 36
140-8585	GMC 62, LEX 3, 9, 18, 19, 23, SCI 4, TOY 43, 44, 69, 72, 84	140-9523	GMC 142, 153, 184, 185, 204, 213, 224	340-1014BR	CHR 11, 12, 26, 27, 57, 58, HYU 8, 12, 15, 21, 29, 33, KIA 19, 30, MIT 6, 7, 15, 16, 17, 26, 32, 33, 36
140-8586	LEX 20, TOY 82	140-9557	FOT 5, MAZ 1, 6, 17	340-1018BR	VKW 14, 24, 25, 26, 27, 36, 56, 57
140-8587	MAZ 3	140-9560	CHR 54, GMC 82, 83, 90, 100, 217, GMT 28, 29, 34, ISU 20, 22	340-1046BR	GMC 103, 104, 128, 129, 130, 131, 160, 174, 175, 180, 181, 182, 187, 188, 189, 190, 191, 192, GMT 41, 55, 56, 72, 73, 74, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 102, 103, 105, 106, 107, 108, 109, 115, 116, 117, ISU 33, 34, 38, 39, SAB 14, 15
140-8590	CAT 24, 43, 49	140-9584	GMC 8, 23		HEAD BOLT SET
140-8591	DET 11, 12, 13, 15	140-9604	FOC 62, 76, FOT 42, 47, GMC 84, 85	220-1000	CHR 29, 30, 31
140-8592	CAT 59, 60, 72, 73	140-9606	CHR 62, FOC 62, 69, 76, 77, 82, 87, 97, 98, FOI 11, 13, 23, FOT 42, 47, 56, 72, 100, GMC 78, 95, 99, 125, 126, 134, 141, 146, 152, 162, 163, 164, 169, 196, 211, 217, GMT 23, 35, 53, 67, 70, 94, MER 1, 3, 6, OMC 1, 4	220-1002	FOC 59, 60, FOT 38
140-8593	GMC 101	140-9607	CHR 44, FOC 59, 60, 63, 67, 75, 77, 78, 86, 88, 93, FOI 9, 14, FOT 38, 39, 43, 46, 50, 55, 56, 57, 58, 59, 60, 62, 63, 73, 74, 75, 87, GMC 71, 72, 73, 74, 75, 76, 77, 78, 95, 96, 98, 108, 118, 119, 120, 121, 122, 123, 124, 125, 133, 141, 144, 150, 151, 154, 155, 156, 157, 162, 163, 164, 166, 177, 196, 211, GMT 20, 23, 35, 36, 50, 51 (cont'd)	220-1004	FOC 60, FOT 39
140-8594	CAT 45, 46, 47, 65, 67, 68	140-9610	FOI 21, 24, 25, FOT 88, 103, 104, 105	220-1005	FOC 48, FOT 27, MAZ 50
140-8658	CHR 134	140-9612	CHI 32, 33, 34, 35, 36, 37, 38, CHM 11, 12, 13, CHR 82, 83, 98, 99, 100, 101, 102	220-1006	FOC 25, 26, 29, FOT 12, 13, 14, 21, MAZ 35
140-8659	CHR 134	140-9616	GMC 196, GMT 75	220-1008	FOC 11, 13, 14, 19
140-8662	FOC 16, 17, FOT 6, MAZ 20	140-9690	GMC 125, 126	220-1009	CHR 29, 30, 31, 46, 47
140-8663	FOT 45, LRV 3, MAZ 54	140-9705	GMC 39, 44, 45, GMT 9	220-1010	GMT 119, 120, 121
140-8666	GMC 132, 147, 148			220-1013	GMC 58, 59, 61
140-8668	GMC 132, 147, 148			220-1014	GMC 40, 41, 46, 47, 48
140-8670	GMC 69			220-1015	GMC 75, 76, GMT 20, 21
140-8671	GMC 69			220-1016	FOC 43, FOT 25, 44, MAZ 53
140-8673	JON 25, 26, 38, 46, 47, 54, 64, 65			220-1017	CHR 67, 78
140-8674	JON 25, 26, 38, 46, 47, 54, 64, 65				
140-8679	CAT 106, 107, 115, 116, 121, 122, 130				
140-8715	CUM 30, 31				
140-9105	CHR 74, FOC 57, 69, 76, 82, FOI 8, 11, 12, 13, FOT 36, 50, 56, GMC 96, 117, 120, 121, 122, 123, 124, 125, 196, 225, 226, GMT 52				
140-9107	GMT 71, 76, 77, 95, 96, 97, 123, OMC 7				
140-9108	CHI 2, 3, 10, 11, 29, 32, 33, 34, 35, 36, 37, 38, 45, 47, CHM 1, 2, 5, 11, 12, 13, 19, 22, CHR 53, 64, 66, 73, 79, 82, 83, 88, 91, 92, 95, 96, 97, 98, 99, 100, 101, 102, 104, 105, 110, 111, 112, 113, 114, 115, 116, 117, 121, 126, 128, 130, FOC 85, 89, 91, 92, 94, 96, FOI 18, 22, FOT 71, 76, 78, 84, GMC 170, IHC 19, IHN 10, 11, 12, 13, 21, 49				
140-9109	FOC 91, FOI 15, 16, 17, 19, 20, FOT 65, 66, 77, 79, 81, 83				

Application Buyers Guide

SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.
HEAD BOLT SET (Cont'd)		HEAD BOLT SET (Cont'd)		HEAD SAVER SHIM (Cont'd)	
220-1018	GMC 139, 140, 144, 150, 154, 155, 156, 157, 163, 164, 168, 173, 177, 178, 206, GMT 70, 76, 97, MER 8	220-1111	FOC 20, 30, 34, 35, FOT 7, 15, 19, 20, MAZ 26, 27, 33, 34, 36	230-2052L	FOC 70, 71, FOT 52, 53, 67, 68, 69
220-1021	CHR 55, 57, 58, HYU 28, MII 8, MIT 31, 32, 33, 36	220-1112	CHR 101, 115	230-2052R	FOC 70, 71, FOT 52, 53, 67, 68, 69
220-1023	FOC 70, 71, 73, 74, FOT 52, 53, 54, 67, 68, 69, 70	220-1113	TOY 45, 46, 47	230-2053	MAZ 45
220-1024	GMC 99, 125	220-1114	HYU 21, KIA 19	230-2056	NIS 16
220-1025	GMC 55, GMT 14, ISU 13	220-1116	GMC 42	230-2058	NIS 6, 7, 12, 13, 14
220-1026	GMC 3	220-1117	NIS 44	230-2059	NIS 40
220-1028	FOC 15, MAZ 15, 18	220-1118	GMC 43	230-2060	NII 9, NIS 38, 39
220-1030	CHR 68	220-1119	TOY 23, 24	230-2063	TOY 33
220-1031	GMC 93	220-1120	VKW 17	230-2065	TOY 38
220-1033	FOC 78, FOT 63	220-1121	FOC 16, 17, FOT 6, MAZ 20	230-2066	TOY 45, 46, 47
220-1035	GMC 18, 28, TOY 18, 21	220-1122	GMC 105, GMT 40	230-2067	NIS 41
220-1043	TOY 49, 50, 51, 62	220-1123	GMC 180, 181, 187, 188, 189, GMT 74, 81, 84, 87, 88, 89, 102, 103, 107, 108, 109, 110, 116, 117, ISU 39	230-2068	NIS 41
220-1046	CHR 15, MIT 11, 21	220-1125	FOC 70, 71, 73, FOT 52, 53, 54, 67, 68, 69, 70	230-2069	TOY 6, 7
220-1047	SUB 16, 17	HEAD SAVER SHIM		230-2072L	CHR 68
220-1048	LEX 6, TOY 57, 68, 73	230-2000	BMW 5, 8	230-2072R	CHR 68
220-1050	TOY 9	230-2001	CHR 24, 25, 26, 27, HYU 8, 12, 15, MIT 13, 14, 15, 16	230-2073	GMC 69
220-1052	TOY 67	230-2002	CHR 20	230-2080	MIT 25
220-1059	TOY 7	230-2003	CHR 29, 30, 31, 46, 47	230-2081	MIT 11
220-1060	TOY 33, 38	230-2004	CHR 33, HYU 20, MIT 23, 24	230-2082	FOC 16, FOT 6, MAZ 20
220-1071	FOT 91	230-2005	CHR 48, 49, MIT 29, 30	230-2083	CHR 19, MIT 12
220-1072	CHR 19, MIT 12	230-2006	CHR 55, HYU 28, MII 8, MIT 31	230-2085	CHR 14, MIT 8
220-1074	CHR 20	230-2007	CHR 57, 58, MIT 32, 33	230-2086	FOC 23, 24, MAI 5, MAZ 22, 23, 28, 29, 30, 31
220-1075	CHR 43	230-2008L	CHR 67	230-2089	FOC 15, MAZ 15, 18
220-1076	FOC 60, FOT 39, 48	230-2008R	CHR 67	230-2094	ACU 26, HON 102, ISU 23, 24
220-1077	CHR 51	230-2009	FOC 11, 13, 14, 19	230-2095	CHR 40
220-1080	GMC 101	230-2011	FOC 12, MAZ 14	230-2097	GMC 18, TOY 18
220-1083	CHR 40, 42	230-2015	FOC 47, NIS 50, 51	230-2100	GMC 28, TOY 21
220-1084	GMT 139, MER 13	230-2016	FOC 59, 60, FOT 38, 39	230-2104	GMT 120, 121
220-1085	GMC 83, 90, 93, 94, 102, GMT 37	230-2017	FOC 63, FOT 43, 58, 59	230-2105	CHR 45
220-1086	CHR 63, 68	230-2018	GMC 20, TOY 12, 19	230-2107	TOY 9
220-1088	GMC 55, GMT 14, ISU 13	230-2020	GMC 40, 46, 47, 48	230-2110	CHR 83
220-1091	CHR 85	230-2021	GMC 45, 55, GMT 14	230-2114L	FOT 44, MAZ 53
220-1092	GMC 86, GMT 31, SAB 11, 12	230-2022	GMC 58, 59, 61	230-2114R	FOT 44, MAZ 53
220-1093	GMC 125, 126	230-2024	CHR 44, GMC 76	230-2115	GMC 55, GMT 14, ISU 13
220-1094	FOC 44, 45, FOT 26	230-2025	CHR 54, GMC 82, 83, 90, 92, 93, 94, GMT 28, 29, ISU 20, 22	230-2116	GMC 43
220-1095	CHR 67, 78	230-2026L	TOY 67	230-2117	GMC 42
220-1096	FOC 48, FOT 27, MAZ 50	230-2026R	TOY 67	230-2118L	CHR 78
220-1097	CHR 76, MIT 38	230-2028	GMC 141, 150, 154, 163, 168, 173, GMT 96, 97	230-2118R	CHR 78
220-1098	CHR 94, MIT 40	230-2029	GMC 199, 200, 208, 214, 215, 220, 221, GMT 122, 126, 130, 133, 134, 135	230-2120	CHR 40, 41, 42
220-1099	GMT 127	230-2030	GMC 3	230-2121	CHR 85
220-1100	GMC 56, 57, GMT 15	230-2031	GMC 4, SUZ 1, 2, 5	230-2122	HON 76
220-1101	GMT 25, 30, 38, 49, 60, ISU 19, 21, 27, 28, 30, SAB 13	230-2032	GMT 4, 5, SUZ 6, 7	230-2123	ACU 3, 4, 5, HON 43, 44
220-1102	GMC 174, 175, GMT 72, 80, 85, 86, 104, 105, ISU 33, 37	230-2033	GMC 18, TOY 17, 18	230-2124	FOT 40, 48
220-1103	GMC 160, 174, 175, 182, GMT 72, 73, 79, 80, 82, 85, 86, 104, 105, 106, 107, 115, ISU 34, 37, 38, SAB 14, 15	230-2037	HON 22, 23, 24, 25, 26, 38	230-2125	CHR 94, MIT 40
220-1104	GMC 140, GMT 62, 64	230-2038	HON 56, 57, 58, 59	230-2126L	CHR 51
220-1105	CHR 106, 118	230-2039	HON 60, 61, 62, 63	230-2126R	CHR 51
220-1106	FOC 65, FOT 45, LRV 3, MAZ 54	230-2041	HON 96, ISU 18	230-2127L	TOY 73
220-1107	GMC 199, 200, 208, 214, 215, 220, 221, GMT 122, 126, 133, 134, 135	230-2042	TOY 65, 66	230-2127R	TOY 73
220-1108	VKW 38, 39	230-2045	ISU 16	230-2128	GMC 177, 178
220-1109	FOT 99, IHN 65	230-2047	VKW 10, 11, 12, 13, 14, 15, 16	230-2129	GMC 175
220-1110	SAB 8, SUB 19, 21	230-2048	MAZ 10, 11	230-2130L	FOC 44, 45, FOT 26, MAZ 49
		230-2049	VOL 17, 18	230-2130R	FOC 44, 45, FOT 26, MAZ 49
		230-2050	MAZ 13	230-2131	FOC 19
				230-2132	GMC 102, GMT 37
				230-2133	CHR 76, MIT 38
				230-2135	GMC 56, GMT 15
				230-2136	HYU 13, 14, KIA 10
				230-2137L	FOT 45, MAZ 54
				230-2137R	FOT 45, MAZ 54
				230-2138	AUD 8, VKW 17
				230-2139	NIS 44, SUZ 16

Application Buyers Guide

SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.
HEAD SAVER SHIM (Cont'd)		HEAD SAVER SHIM (Cont'd)		INJECTOR TUBES AND COMPONENTS (Cont'd)	
230-2140	FOT 97, 98	230-2193	NII 7, 11	240-1024	IHC 41, 42, 48, 49, 50, 51, IHN 39, 40, 59, 60, 62, 71, 73, 74, 75, 76, 81
230-2141	FOT 99	230-2194	SAB 8, SUB 21, 22	240-1025	IHC 52, IHN 70, 80
230-2142	TOY 51, 62	230-2195L	LEX 23, TOY 84	240-1026	FOT 99, IHN 65
230-2143	GMC 62, LEX 3, SCI 4, TOY 43, 44	230-2195R	LEX 23, TOY 84	240-1027	IHC 52, IHN 70, 80
230-2144	FOC 20, 30, FOT 7, 15, 16, MAZ 26, 27, 33, 34, 36	230-2196	FOT 51, 80, IHN 29, 45	240-1028	DET 11, 12, 13, 15
230-2145	GMT 127	230-2197	ISI 8, ISU 41	240-1030	CUM 56
230-2146	GMC 24	230-2198	ISI 4, ISU 32	240-1030CU	CUM 56
230-2147	GMC 29, TOY 23	230-2199	HIN 15, 16	240-1030R	CUM 44, 49, 54, 55, 56
230-2148	FOT 51, 80, IHN 29, 45	230-2200L	CHR 71	240-1031	IHC 43, 44, 46, 47, IHN 57, 58
230-2149	CHR 35, HYU 21, KIA 19, MIT 25	230-2200R	CHR 71	240-1032	IHC 8, 14, 17, 21, 22, 28, 36, 40
230-2150	TOI 6, TOY 41	230-2201	HIN 4	240-1033	IHN 72, 86
230-2151	GMC 49, ISU 12, SUZ 11	230-2202	HIN 3	240-1034	FOT 51, 80, IHN 29, 45
230-2152	ISI 3, ISU 31	230-2203	TOY 61	240-1034GP	FOT 51, 80, 86, IHN 29, 45
230-2153	NIS 41	230-2204L	TOY 85	240-1035	DET 15
230-2154	KIA 12	230-2204R	TOY 85	240-1035R	DET 15, PCR 1, 2
230-2155	FOT 39	230-2205L	TOY 74	240-1035SH+007	DET 15
230-2156	SAB 7, SUB 19, 20	230-2205R	TOY 74	240-1035SH+012	DET 15
230-2157	NIS 25	230-2206	HYU 22	240-1035SH+018	DET 15
230-2158	MIT 28	230-2207L	FOC 55, FOT 35	240-1036	CAT 51, 57
230-2159	GMT 10, SUZ 9, 10, 12	230-2207R	FOC 55, FOT 35	240-1036RB	CAT 51, 57
230-2160	CHR 40	INJECTOR TUBES AND COMPONENTS		240-1036RT	CAT 51, 57
230-2161	GMC 24	240-1000	CAT 46, 67	240-1037	JON 77, 78, 79
230-2162L	CHR 106	240-1002	CAT 24, 43, 49	240-1037RB	JON 77, 78, 79
230-2162R	CHR 106	240-1003	CAT 50	240-1037RT	JON 77, 78, 79
230-2163	ACU 11, 12, HON 77, 78, 79, 83	240-1003R	CAT 50	240-1038	JON 77, 78
230-2164	GMT 139	240-1004	CAT 60	240-1039	DET 15
230-2165	CHR 68, 84	240-1005	CAT 59, 60, 72, 73	240-1040	JON 43, 44, 66, 67, 74
230-2166	ISI 4, ISU 32	240-1006	CAT 71, 74, 81, 83, 84, 85, 88, 90, 95, 98, 103	240-1040RB	JON 25, 26, 43, 44, 46, 47, 64, 65, 66, 67, 74
230-2167	MIC 7, 8	240-1006RB	CAT 71, 74, 81, 83, 84, 85, 88, 90, 95, 98, 103	240-1040RT	JON 43, 44, 66, 67, 74
230-2168	MIC 2, 3	240-1006RM	CAT 71, 74, 81, 83, 84, 85, 88, 90, 95, 98, 103	240-1041	CAT 51
230-2169	GMC 6, 7, 11, GMT 1, 2	240-1006RT	CAT 71, 74, 81, 83, 84, 85, 88, 90, 95, 98, 103	240-1041RB	CAT 51, 58
230-2170	ACU 24, HON 98	240-1008	CUM 8, 9, 13, 14, 24, 25, 26, 27, 32, 33	240-1041RT	CAT 51, 58
230-2171	ACU 30, 31, 33, HON 104, 105	240-1009	CAS 41, CUM 36, 37, 38, 51, 52, 61, KOM 27	240-1042	CAT 71, 74
230-2172	ACU 32, 34, GMT 39, HON 106, 108	240-1009R	CAS 41, CUM 8, 9, 13, 14, 24, 25, 26, 27, 32, 33, 36, 37, 40, 41, 46, 51, 52, 61, KOM 27	240-1043	FOT 86, IHN 47
230-2173	GMC 86, GMT 31, SAB 11	240-1010	CAS 41, CUM 36, 37, 38, 51, 52, 61, KOM 27	240-1044	CAT 71, 74, 81, 83, 84, 88, 90, 95, 98, 103
230-2174	CAS 28, CHR 108, CUM 10, KOM 17	240-1011	CUM 36, 37, 38, 51	240-1045	DET 15
230-2175	CHR 109, CUM 11	240-1011R	CUM 36, 37, 38, 51	240-1045R	DET 15
230-2176	CHR 127, CUM 16	240-1012	DET 1, 2, 3, 6, 18	240-1046R	MAC 3, 14, VVD 1, 2, 3, 4
230-2177	FOC 48, FOT 27	240-1013	DET 1, 2, 3, 6, 18	240-1047	DET 5, 7, 8, 9, MBD 1, 2, 4, 5, 6, 7
230-2178	FOT 86, IHN 47	240-1013R	DET 1, 2, 3, 6, 18	240-1047R	DET 5, 7, 8, 9, MBD 1, 2, 4, 5, 6, 7
230-2179L	FOT 91, 92	240-1014	DET 18	240-1048	CUM 44, 49, 54, 55
230-2179R	FOT 91, 92	240-1015	DET 6	240-1048RTR	CUM 44, 49, 54, 55
230-2180	GMC 65, GMT 18	240-1016	DET 1, 3	240-1049	JON 79
230-2181	GMT 30, ISU 21	240-1017	DET 11, 12, 13, 15	240-1050	KOM 19, 20, 21, 22, 23, 24, 25
230-2182	GMC 103, 104, 128, 130, GMT 41, 55, 56	240-1017R	DET 11, 12, 13, 15	240-1051	DET 14, 16, 17
230-2183	GMT 38, ISU 27	240-1018	DET 10	240-1051R	DET 14, 16, 17
230-2184	GMT 49, ISU 28	240-1018R	DET 10	240-1052	MAC 3, 14, VVD 1, 2, 3, 4
230-2185	GMT 60	240-1019	GMT 127	240-1053	MAC 3, 14, VVD 1, 2, 3, 4
230-2186	GMT 72, 80, 85, 86	240-1019R	GMT 127	240-1054	JON 25, 26, 46, 47, 64, 65
230-2187	GMC 180, 181, 182, 187, 188, 189, GMT 102, 103, 104, 105, 106, 107, 108, 109, 110, 115, 116, 117, ISU 37, 38, 39, SAB 15	240-1020	MAC 5, 12	240-1055	CAT 58
230-2188	HON 39, 40, 41, 42	240-1021	MAC 6, 7, 8	240-1056	PCR 1, 2
230-2189	HON 46, 47, 48, 49	240-1023	MAC 13		
230-2190	HYU 9, KIA 7				
230-2191L	HYU 26, KIA 24				
230-2191R	HYU 26, KIA 24				
230-2192	CHR 43				

Application Buyers Guide

SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.
	KEEPER		KEEPER (Cont'd)		KEEPER (Cont'd)
121-1000	CAT 29, 30, 31, 32, 33, 36, 37, 45, 46, 47, 50, 51, 52, 55, 56, 57, 59, 60, 62, 63, 65, 67, 68, 69, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 126 (cont'd)	121-1020	AUD 1, 2, 3, 35, 37, CHR 13, VKW 3, 4, 5, 6, 7, 9, VOL 22, 23	121-1067	NII 7, 11, NIS 19
121-1001	CHI 5, 19, 20, 23, 24, 25, 26, 27, 28, CHM 7, CHR 70, 77, 80, 81, 87, 89, JON 7, 16, 22	121-1021	CAS 25, 35, 36, CHR 43, 83, 85, 101, 115, 133, 134, 135, GMC 8, 23, 39, 40, 41, 44, 45, 55, 76, 77, 83, 90, 91, 92, GMT 9, 20, 21	121-1069	CUM 57, 58
121-1002	GMC 170, 203, 207, 219, 223	121-1023	TOI 1, 2, 3, 4, TOY 1, 2, 3, 20, 22, 29, 31, 40, 42, 45, 46, 47, 48, 58, 59, 63, 64, 79	121-1071	CHR 67, 78
121-1003	ALL 1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 18, 23, BUD 8, 9, 23, 24, CAS 2, 4, 5, 10, 11, 13, 15, 16, CHR 44, 54, 75, 79, 88, 110, 126, CON 7, 16, 23, 33, 34, 45, 46, 47, 50, 51, 52, 53, 56, DET 2, 10, FOC 57, 61, 62, 63, 67, 68, 69, 75, 76, 77, 78, 82, 87, 88, 93, 97, 98, FOI 1, 2, 3, 4, 5, 8, 9, 11, 13, 14, 23, FOT 36, 41, 42, 43, 46, 50, 55, 56 (cont'd)	121-1025	MAI 5	121-1072	GMC 58, 59, 61
121-1006	CAS 41, CUM 34, 35, 48, 50, 52, 53, 61, IHC 43, 44, 46, 47, IHN 57, 58, KOM 27, MIN 2, 3, 4, 5, 6, 8	121-1026	FOT 4, 5, KIA 11, MAI 5, MAZ 1, 2, 4, 6, 12, 17, 22, 23, 24, 28, 29, 47	121-1073	CAS 39, CUM 28, 29, DET 14, 16, 17, VVD 4
121-1007	ALL 13, 14, 15, 16, 24, 25, 26, 30, 31, CHR 66, 79, 88, 95, 97, 105, 110, 121, 126, CUM 8, 9, 13, 14, 24, 25, 26, 27, 32, 33, FOC 85, 89, 91, 92, 94, 95, 96, FOI 15, 16, 17, 19, 20, 22, FOT 47, 49, 61, 65, 66, 76, 77, 78, 79, 81, 83, 84, 85, 89, 93, 94, 97, 98, 102, FTR 8, 9, 10, 15, 16, 17, 18, 19, 22, 23, 25, 26, 27, 29, 30, GMC 199, 200 (cont'd)	121-1027	CAS 40, CUM 8, 9, 13, 14, 24, 25, 26, 27, 32, 33, 36, 37, 38	121-1074	ACU 26, 44, GMC 21, 22, 36, HON 102, 103, ISU 3, 4, 5, 6, 23, 24, 25, 26, JON 11, YAN 8
121-1009	FOI 21, 24, 25, FOT 88, 103, 104, 105, IHN 53, 54, 69, 77, 78, 82, 83, 84, 87, JON 72, 73, 75, MAC 4, 7, 8	121-1030	CAT 75, 92, 93, 94, 100, 101, 104, 105, 111, 112, 113, 114, 119, 120	121-1076	CUM 51
121-1010	CAS 1, 16, CON 15, 17, 18, 19, 20, 21, 22, 24, 25, 26, 27, 28, 29, 30, 31, 32, 44, 45, 46, 47, MFT 2, 3, 4, 5	121-1031	CHR 4, 5, 6, 7, 11, 12, 26, 27, 57, 58, HYU 2, 3, 8, 12, 15, 21, 29, 33, KIA 19, 30, MIT 1, 2, 3, 4, 6, 7, 15, 16, 17, 26, 32, 33, 36	121-1078	JON 25, 26, 38, 46, 47, 54, 64, 65, 74, 77, 78, 79
121-1011	ALL 9, 12, 17, 21, 22, BUD 1, 5, 10, 17, 26, CAT 61, 64, 66, 70, CHR 29, 30, 31, 43, 46, 47, CON 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 14, 15, 21, 22, 28, DET 1, 6, 18, FOC 32, 39, 41, 42, 43, 53, 56, 66, FOI 6, 7, FOT 18, 23, 24, 25, 30, 31, 44, 99, IHC 1, 51, IHN 59, 64, 65, 71, 81, MAZ 53, MFT 2, 3, 4, 5, WIS 1, 2, 3, 4, 5	121-1034	CHR 8, 9, 18, 48, 56, MII 1, MIT 22, 29	121-1079	CAS 17, 18, 19, 28, 29, CAT 24, 43, 49, 50, 51, 57, 58, CHR 108, CUM 2, 3, 10, 30, 31, GMT 57, KOM 11, 17
121-1014	CHI 2, 3, 10, 11, 32, 33, 37, 38, 40, 41, 43, 44, 49, 50, 52, CHM 1, 2, 12, 13, 20, CHR 53, 64, 66, 73, 79, 86, 88, 91, 92, 93, 96, 97, 98, 99, 101, 102, 103, 104, 110, 112, 113, 114, 115, 116, 117, 120, 125, 126, 128, 130, 131, IHC 19, IHN 13, 21, 49	121-1039	CHR 9, 10, 14, 24, 25, 32, 33, 48, 49, 55, FOT 11, HYU 20, 28, MAZ 44, MII 1, 2, 3, 4, 8, MIT 5, 8, 9, 10, 13, 14, 22, 23, 29, 30, 31	121-1080	DET 11, 12, 13, 15
121-1017	DET 3	121-1047	GMC 37, GMT 7, 8, HON 96, ISU 7, 9, 10, 11, 16, 18, NII 4, 9, 17, 19, NIS 2, 3, 4, 5, 9, 20, 26, 27, 28, 29, 36, 37, 38, 39, 42, 46, 47, 48, 49	121-1081	GMC 42, 69, 106, 132, 145, 147, 148, 149, GMT 69
121-1018	ALL 19, 20, CAT 18, 19, 39, 40, MFT 15, 16, 17, 18, 19, 20, 22, 23, 24, 25, 27, 28, 29, 30, 31, 32, 33, 35, 36, 37, 38, PER 19, 20, 21, 22, 23, 24, 25, 27, 28, 29, 36, 37, 38, 39, 40, 41, 42, 43, 45, 46, 48, 49	121-1048	GMC 15, 16, GMT 127, 128, 129, ISU 1, 2	121-1082	CHR 51, 65, 71, 72, FOC 38, 44, 45, 72, 79, 80, 81, 83, FOT 26, 35, 54, 64, 70, 92, MAZ 43, 49
121-1019	FOC 25, 26, 27, 28, 29, 37, 59, 60, 86, 87, 93, FOT 8, 12, 13, 14, 38, 39, 72, 87, MAZ 35	121-1049	CAS 23, 26, 27, 33, 34, 37, 38	121-1083	AUD 3, 5, 7, 14, 35, 36, 38, 39, 40, 42, 47, CHR 13, 43, 85, 106, 118, 119, 123, 124, 136, FOC 11, 13, 14, 18, 19, 39, 42, 43, 48, FOT 24, 25, 27, 44, 82, MAC 3, 14, MAZ 50, 53, VKW 7, 8, 9, 10, 11, 12, 13, 15, 16, 29, 49, 50, 51, VOL 13, 14, 15, 16, 17, 18, 22, 23, VVD 1, 3
		121-1051	MFT 1, 6, 7, 8, 9, 10, 13, 14, PER 2, 3, 7, 8, 9, 10, 11, 17, 18, 35	121-1084	FOC 48, 60, 70, 71, 73, 74, 84, 90, FOT 14, 21, 27, 39, 40, 45, 48, 52, 53, 67, 68, 69, 90, 91, LRV 3, MAZ 35, 41, 50, 54
		121-1052	CHR 29, 30, 31, 46, 47, 67, 78	121-1085	GMC 93, 94, 102, 103, 104, 105, 125, 126, 128, 129, 130, 131, 160, 174, 175, 180, 181, 182, 187, 188, 189, 190, 191, 192, 193, 194, 195, 216, GMT 37, 40, 41, 55, 56, 65, 66, 72, 73, 74, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 102, 103, 104, 105, 106, 107, 108, 109, 110, 113, 114, 115, 116, 117, IHN 72, 86, ISU 33 (cont'd)
		121-1054	ACU 2, 6, 21, 22, HON 9, 10, 16, 17, 18, 19, 20, 21, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 75, 84, 97	121-1086	CHR 19, 20, 40, MIT 12
		121-1058	GMC 18, 19, 28, LEX 6, 7, 18, TOY 6, 7, 9, 13, 14, 15, 16, 17, 18, 21, 33, 34, 35, 36, 38, 49, 50, 51, 57, 62, 65, 66, 68, 73	121-1087	CHR 20, 40, 41, 42, MIC 7, 8
		121-1059	FOC 47, FOT 32, INF 7, NII 6, 10, NIS 6, 7, 8, 12, 13, 14, 23, 30, 31, 50, 51, 56, 57	121-1089	CHR 67, 78
		121-1060	ACU 1, 3, 4, 5, 7, 8, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 25, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 45, 46, 47, 48, CHR 16, 21, 36, 37, 39, GMC 3, 5, GMT 5, 39, HON 1, 6, 7, 8, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 46, 47, 48, 49, 50, 51, 52, 53, 54, 68, 69 (cont'd)	121-1090	GMC 42, 43, 55, GMT 14, ISU 13
		121-1061	GMC 1, 2, 4, GMT 4, SUZ 2, 3, 5, 6	121-1091	CUM 42, 43, 44, 49, 54, 55, 56, IHC 52, IHN 59, 70, 71, 80
		121-1062	HIN 2, 3, 4, 13, 15, 16, INF 13, 14, NIS 40, 41	121-1093	CAT 13, 27, 44, 48, CHR 63, 68, 76, 84, 94, MIT 38, 40, PER 12, 13, 14
		121-1063	INF 1, 4, NIS 11, 15, 24, 34, 41, 52, 53, 54	121-1094	MAC 5, 12, 13
		121-1064	GMT 11, INF 2, 3, 5, 6, 8, 9, 10, 11, 12, 15, 16, 17, 18, 19, NIS 16, 18, 21, 22, 25, 32, 33, 41, 44, 45, 55, 58, 59, 60, 61, 62, 63, 64, 65, 66, SUZ 16, 20	121-1095	CAT 107, 116, 122, 130
		121-1065	FOI 1, 2, 3, 4, 5, FTR 1, 2, 3, 4, 5, 6, 11, 12, 13, 14	121-1096	CHR 15, 34, 35, 45, 59, MIT 11, 21, 25, 28, 34, 35, 37, 39
				121-1097	CHR 109, 127, CUM 4, 11, 12, 16
				121-1098	AUD 8, 9, 12, 13, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 31, 32, 33, 34, 44, 45, 46, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 103, 104, 105, 106, 107 (cont'd)
				121-1099	GMT 10, 22, SUZ 9, 10, 12, 13, 15, 17

Application Buyers Guide

SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.
KEEPER (Cont'd)		LIFTER (Cont'd)		LIFTER (Cont'd)	
121-1100	GMC 29, 35, 62, LEX 1, 2, 3, 4, 5, 8, 9, 11, 12, 13, 14, 15, 16, 17, 19, 21, 22, 23, 24, 25, 26, SCI 1, 3, 4, 5, TOY 23, 25, 26, 27, 30, 37, 43, 44, 53, 54, 55, 56, 60, 61, 69, 72, 74, 75, 76, 77, 80, 83, 84, 85, 86	VL107	CHR 76, 94, FOC 38, 44, 45, 70, 71, 73, 74, FOT 26, 52, 53, 67, 68, 69, 91, MAZ 43, 49, MIT 40	VL32	IHN 1, 2, 32, 33, 37, 38, 48
121-1101	FOC 16, FOT 6, MAZ 20	VL109	GMC 8, 17, 23, 40, 41, 46, 47, 48, GMI 1	VL35	FOC 27, 28, 37, 48, 56, 59, 60, 63, 67, 68, 75, 77, 78, 86, 87, 88, 93, 97, 98, FOI 9, 14, 23, FOT 27, 38, 43, 46, 55, 57, 58, 59, 60, 62, 63, 72, 73, 74, 75, 81, 87, 94, 95, 96, 100, 101, MER 3, 7, 11, OMC 5, 8
121-1102	HYU 4, 9, 10, 13, 14, 25, 26, 27, KIA 7, 10, 16, 23, 24, 25	VL113	FOC 14, 19	VL37	GMC 39, 95, 98, 108, 118, 119, 139, 140, 141, 144, 150, 154, 155, 156, 157, 163, 168, 173, 199, 201, 208, 210, 215, 220, 221, GMT 23, 36, 50, 52, 59, 62, 67, 68, 70, 76, 77, 78, 94, 95, 96, 97, 111, 112, 122, 123, 126, 130, 131, 133, 134, 135, MER 1, 6, 8, 9, 10, 12, 14, OMC 1, 4, 6, 7
121-1103	FOC 45, JAG 1	VL114	FOT 51, 80, 86, 93, 97, 98, 99, GMC 138, 158, 159, 172, GMT 99, 119, 120, 121, IHN 29, 45, 47, 61, 63, 64, 65	VL48	FOC 75, 77, 97
121-1104	FOC 20, 21, 22, 30, 31, 34, 35, 36, 54, 55, 58, FOT 7, 9, 10, 15, 16, 17, 19, 20, 33, 34, 35, 37, LRV 1, 2, 4, MAZ 5, 25, 26, 27, 33, 34, 36, 37, 38, 39, 40, 51, 52	VL115	GMC 75, 76, 77, 99, 125, 126, 134, 140, 143, 146, 152, 155, 156, 173, 174, 177, 178, 179, 195, GMT 20, 21, 53, 62, 63, 64, 65, 72, 77, 80, 85, 86, 98, 104, ISU 33, 35, 37	VL49	GMC 137, 158, 159, 162, 165, 169, 171, 196, 202, 204, 205, 209, 211, 212, 217, 222, 224
121-1105A	FOT 51, 80, 86, IHN 29, 45, 47	VL116	AUD 7, 14, 39, 40, 41, 42, 43, 47, GMC 58, 59, 61, 176, VKW 7, 10, 11, 12, 13, 14, 15, 16, 36, 37, 38, 50, 51, 56	VL5	GMC 170, 183, 197, 203, 219
121-1107	DAE 1, GMC 24	VL117RH	CHR 44, GMC 44, 45, 55, 71, 72, 73, 74, 75, 76, 84, 85, 96, 120, 121, 122, 123, 124, 125, 133, 134, 135, 142, 153, 170, 184, 185, 206, 213, 223, 225, 226, GMT 9, 35, 51, 59, 71, 112, 130, 135, MER 2, 4, 5, OMC 2, 3	VL523	AUD 8, 46, 48, 54, 55, VKW 17, 55
121-1108	KIA 1, 4	VL120	GMC 3, GMT 10, 22, SUZ 1, 9, 12, 13, 15, 17	VL524	AUD 8, 46, 48, 54, 55, VKW 17, 55
121-1118	CAT 14, 20, 21, 25, 26, 38, MFT 12, 21, 26, 34, 39, PER 15, 16, 26, 30, 31, 32, 44, 47	VL123	GMC 43	VL549	ALL 19, 20, CAT 14, 18, 19, 20, 21, 25, 38, 39, 40, MFT 12, 15, 16, 17, 19, 20, 21, 22, 23, 24, 25, 26, 28, 29, 30, 31, 32, 33, 35, 36, 37, 38, 39, PER 15, 16, 19, 20, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 37, 38, 39, 40, 41, 42, 43, 45, 46, 47, 48, 49
121-1119	ISU 42	VL135	CHR 11, 12, 26, 27, 57, 58, HYU 8, 12, 15, 21, 29, 33, KIA 19, 30, MIT 6, 7, 15, 16, 17, 26, 32, 33, 36	VL554	CHR 109, CUM 11, 12, 30, 31
121-1123	KUB 8, 9, 10, 11, 13, 14, 15	VL138	GMC 55, 93, 94, 100, 102, 103, 104, 105, 128, 129, 130, 131, GMT 14, 37, 40, 41, 55, 56, ISU 13	VL555LA	CHR 106, 118, 123, 124
121-1126	IHC 8, 14, 17, 21, 22, 28, 36, 40	VL141	CHR 14, 15, 24, 25, 33, 34, 35, 45, 48, 49, 55, 59, HYU 20, 28, MAZ 44, MII 5, 6, 8, MIT 8, 11, 13, 14, 21, 23, 24, 25, 29, 30, 31, 34, 35, 37, 39	VL556LA	CHR 106, 123, 124
121-1127	GMC 54, 70, 79, 80, 81, 87, 88, 110, 111, 112, 113, 114, 115, GMT 12, 24, 26, 32, 33, 43, 44, 45, 46, SAB 10, SUZ 18, 19	VL146	FOC 2, 6, 23, 24, HON 102, ISU 24, KIA 5, MAZ 8, 9, 13, 28, 29, 30, 31, 45, 46, 47, SUB 9, 16, 17	VL557LA	CHR 106, 123, 124
121-1128	AUD 47, FOT 29, VKW 24, 25, 26, 27, 28, 30, 37, 38, 40, 56, 57, 69	VL149	FOC 7, 8, 12, 15, 33, KIA 1, 4, MAZ 10, 11, 14, 16, 18, 42	VL558	GMC 160, 180, 181, 187, 188, 189, 193, 194, GMT 66, 81, 82, 88, 89, 90, 91, 92, 93, 102, 108, 109, 113, 114, 115, 116, ISU 34, SAB 14
121-1129	SAB 6, 8, SUB 10, 16, 17, 19, 20, 21, 22	VL150	FOT 44, MAZ 53	VL558E	GMC 160, 180, 181, 187, 188, 189, 193, 194, GMT 66, 81, 82, 88, 89, 90, 93, 102, 108, 109, 113, 115, 116, ISU 34, SAB 14
121-1130	SUB 11, 12, 13, 14, 15, 18, 23, 24, 25, 27, 29	VL156	CAS 17, 18, 19, 28, 29, CHR 108, CUM 2, 10, 29, GMT 57, KOM 11, 17	VL558FG	GMC 160, 180, 181, 187, 188, 189, 193, 194, GMT 66, 81, 82, 88, 89, 90, 93, 102, 108, 109, 113, 115, 116, ISU 34, SAB 14
121-1131	GMC 6, 7, 9, 10, 11, 12, 13, 14, 25, 26, 27, 31, 32, 33, 34, GMT 1, 2, 3, 6, MIC 1, 2, 3, 4, 5, 6, 7, 8, 9	VL163	GMT 135, 139, MER 12, 13, 14	VL558RG	GMC 160, 180, 181, 187, 188, 189, 193, 194, GMT 66, 81, 82, 88, 89, 90, 93, 102, 108, 109, 113, 115, 116, ISU 34, SAB 14
121-1132	DET 5, 7, 8, 9, MBD 1, 2, 4, 5	VL171	CHR 51	VL559	GMC 160, 175, 180, 181, 182, 187, 188, 189, 190, 191, 192, 193, 194, 216, GMT 66, 73, 74, 79, 81, 82, 83, 84, 87, 88, 89, 90, 91, 92, 93, 102, 103, 105, 106, 107, 108, 109, 110, 113, 114, 115, 116, 117, ISU 34, 38, 39, SAB 14, 15
121-1133	IHN 88, PER 33, 34	VL173	CHR 19, 40, 41, 42, MIT 12	VL559G	GMC 175, 182, 190, 191, 192, 216, GMT 72, 73, 74, 79, 83, 84, 87, 90, 93, 103, 105, 106, 107, 110, 117, ISU 38, 39, SAB 15
121-1134	CUM 1, KOM 4, 5, 6, 7, 8, 9, 14, 15, 16	VL175	GMC 9, 10, 12, 13, 14, 27, 34, 42, 50, 51, 52, 54, 56, 57, 63, 64, 65, 66, 67, 68, 70, 79, 81, 87, 88, 89, 106, 110, 111, 112, 113, 114, 115, 116, 132, 145, 147, 148, 149, GMT 2, 3, 12, 15, 16, 17, 18, 19, 24, 25, 26, 30, 32, 33, 38, 43, 44, 45, 46, 47, 48, 49, 60, 69, ISU 19, 21, 27, 28, 30, SAB 5, 10, 13, SUZ 18, 19	VL560	CHR 67, 78
121-1135	KOM 19, 20, 21, 22, 23, 24, 25	VL176	FOC 65, 84, FOT 45, LRV 3, MAZ 54	VL561	CHR 22, 23, 38, 39, 60, 65, 69, 71, FIA 4, MBT 1, 3, 4, 5, MBZ 1, 3
121-1137	YAN 14, 16, 21, 22	VL178	FOT 70	VL562	CHR 76, 94, MIT 38
121-1138	JON 1, 2, 3, 4, 8, 9, 10, 12, 13, KOM 1, 2, 3, 10, THE 2, 3, YAN 1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 15	VL180	FOC 72, FOT 54, 70, 92	VL564	HYU 10, 14
121-1139	KOM 12, 13, YAN 17, 18, 19, 20	VL21	FOC 57, 62, 69, 76, 82, FOI 1, 2, 3, 4, 5, 8, 11, 13, FOT 36, 47, 49, 50, 56, FTR 4, 5, 6, 11, 12, 13, 14	VL565	CHR 109, 127, CUM 3, 4, 11, 12, 16
121-1140	CHR 22, 23, 38, 39, FIA 4, FOC 40, 46, FOT 22	VL31	CHI 2, 3, 10, 11, 32, 33, 34, 35, 36, CHM 2, 20, CHR 53, 64, 73, 86, 91, 92, 98, 99	VL567	DAE 1, GMC 24
121-1141	VVD 2				
121-1142	MBD 6, 7				
121-1143	FOC 4, FOT 28				
121-1144	FOC 1, 3, 5, FOT 1, 2, 3				
121-1145	PCR 1, 2				
121-1146	CAT 1, 2, 3, 4, 5, 7, 8, 9, 10, 11, NHL 1, 2, 3, PER 1, 4, 5, 6, SHB 1, 2, 3				
	LIFTER				
170-1011	CAT 36, 37, 45, 46, 47, 55, 56, 65, 67, 68, 69	VL176	FOC 65, 84, FOT 45, LRV 3, MAZ 54	VL560	CHR 67, 78
170-1012	IHC 50, IHN 62, 73, 74, 75, 76	VL178	FOT 70	VL561	CHR 22, 23, 38, 39, 60, 65, 69, 71, FIA 4, MBT 1, 3, 4, 5, MBZ 1, 3
170-1013	CAT 62, 63	VL180	FOC 72, FOT 54, 70, 92	VL562	CHR 76, 94, MIT 38
170-1014	CAT 78, 79, 86, 96	VL21	FOC 57, 62, 69, 76, 82, FOI 1, 2, 3, 4, 5, 8, 11, 13, FOT 36, 47, 49, 50, 56, FTR 4, 5, 6, 11, 12, 13, 14	VL564	HYU 10, 14
VL100	FOC 48, 60, 78, FOT 27, 39, 40, 48, 63, 74, MAZ 50	VL31	CHI 2, 3, 10, 11, 32, 33, 34, 35, 36, CHM 2, 20, CHR 53, 64, 73, 86, 91, 92, 98, 99	VL565	CHR 109, 127, CUM 3, 4, 11, 12, 16
VL106	CHR 67, 78, 83, 98, 101, 115, 133, 134			VL567	DAE 1, GMC 24

Unlisted SBI part numbers are UNIVERSAL. See Numerical Listings for specifications. Arranged Alphabetically by Product Type.

Application Buyers Guide

SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.
LIFTER (Cont'd)		PUSH ROD (Cont'd)		PUSH ROD (Cont'd)	
VL568	HYU 9, 25, 26, KIA 7, 23, 24	190-1384	GMC 202, 205, 222	190-1539	GMC 55, GMT 14, ISU 13
VL569	AUD 9, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 44, 45, 56, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 75, 76, 77, 88, 89, 90, 91, 92, 93, 96, 99, 114, 116, VKW 1, 2, 39, 41, 42, 43, 44, 45, 47, 52, 53, 54, 60, 62, 67	190-1385	GMC 184, 185, 213, 225, 226	190-1541	FOC 48, FOT 27, MAZ 50
VL570	GMC 6, 7, 11, GMT 1, 2	190-1395	FOC 86	190-1543	FOC 69, 76, 82, FOI 11, FOT 50
VL571	DAE 2, 3, GMC 86, 97, GMT 31, ISU 12	190-1396	FOC 97, 98	190-1544	CHR 106
VL572	CUM 30, 31	190-1403	CHI 52, CHR 130, 131	190-1545	CHR 106
VL573	GMT 127	190-1408	CHI 47, 48, CHM 22, 23, 24, CHR 120, 125	190-1546	GMC 103, 104, 128, 129, 130, 131, GMT 41, 55, 56
VL575	FOC 40, 46, 79, 80, 81, 83, FOT 22, 35, 64	190-1411	GMC 137, 165, 171, 172, 209, GMT 99	190-1547	GMC 103, 104, 128, 129, 130, 131, GMT 41, 55, 56
VL63	GMC 60, 78, 150, 154, 163, 164, 199, 200, 208, 214, 215, 221, MER 8, 12, 14	190-1417	FOC 87, 93, FOT 72, 87	190-1548	FOT 51, 80, 86, IHN 29, 45, 47
VL64	CHI 45, 48, 50, 52, CHM 23, 24, CHR 117, 120, 125, 130, 131	190-1421	GMC 223	190-1549	CHR 106, 119, 123, 124
VL66RH	GMC 150	190-1425	FOC 97, 98, FOI 23, FOT 81, 94, 95, 96, 100, 101, MER 3	190-1550	CHR 106, 119, 123, 124
VL67RH	FOC 77, 97	190-1426	FOC 85, 89, 92, 96, FOI 15, 16, 17, 19, 20, 22, FOT 65, 66, 76, 77, 78, 79, 83, 84, 85	190-1551	CHR 118
VL73	CHR 44, GMC 44, 45, 55, 71, 72, 73, 74, 75, 76, 84, 85, 96, 120, 121, 122, 123, 124, 125, 133, 134, 135, 142, 153, 170, 184, 185, 206, 213, 223, 225, 226, GMT 9, 35, 51, 71, 112, 130, 135, MER 2, 4, 5, 12, 14, OMC 2, 3	190-1427	GMC 134, 146, 152	190-1552	CHR 118
VL8	CHI 40, 41, 43, 44, 49, 52, CHR 90, 116, 117, 120, 122, 128, 129, 130	190-1429	CHR 79, 88, GMC 202, 205, 212, GMT 112, IHC 19, IHN 13, 21	190-1553	FOT 90
VL81	TOI 5, TOY 20	190-1433	FOC 97, GMC 84, 96, 120, 121, 122, 123, 135, 162, 196, 211, GMT 52, 111, 130, 131	190-1554	CHR 109, 127, CUM 4, 11, 12, 16
VL83	FOC 25, 26, 29, FOT 8, 12, 13, 14, 21, MAZ 35, 41	190-1435	FOC 39, 42, 43, FOT 24, 25	190-1555	GMC 193, 194, 195, GMT 65, 66, 90, 91, 92, 113, 114
VL86	FOC 11, 13, 14	190-1438	GMC 137, 158, 159, 171, 172, 204, GMT 99	192-1229	GMC 169, 196, 204, 210, 217, 224
VL87	CHR 29, 30, 31, 46, 47	190-1440	CHR 79, 88, GMC 212, IHC 19, IHN 13, 21	192-1321	FOC 56, 68, 75, 77, FOT 55
VL88	CHI 10, 11, CHR 73	190-1443	FOC 88, FOT 73, 74, 75, MER 11, OMC 8	192-1322	FOC 63, FOI 9, 14, FOT 43, 57, 58, 59, 60
VL89	CHI 37, 38, CHM 11, 12, 18, 19, CHR 43, 66, 79, 82, 85, 88, 91, 93, 95, 97, 98, 99, 100, 103, 104, 105, 110, 111, 112, 113, 114, 121, 126, IHC 19, IHN 13, 21, 55, 66	190-1449	CHR 73	192-1330	GMC 71, 73, 78, 95, 108, 119, 133, 170, GMI 2, GMT 23, 35, 51, 59, MER 1, 2, 4, 5, OMC 1, 2, 3
VL9	FOC 32, 41, 43, 53, 66, 85, 89, 91, 92, 95, FOI 6, 7, 15, 16, 17, 19, 20, 22, FOT 25, 30, 31, 65, 66, 76, 77, 78, 79, 83, 84, 85	190-1450	CHM 11, 12, 17, 18, 19, CHR 82, 91, 98, 99, 100, 104, 111, 112, 113, 114	192-1331	CHR 97, 110, 121, 126, GMC 98, 118, 139, 140, 141, 144, 150, 154, 155, 156, 157, 163, 164, 168, 173, 206, GMT 36, 50, 62, 67, 68, 70, 76, 77, 78, 94, 95, 96, 97, 123, IHN 49, MER 6, 8, 9, 10, OMC 4, 6, 7
VL94	CHR 54, GMC 82, 83, 90, 91, 92, 100, GMT 28, 29, 34, ISU 20, 22	190-1454	CHR 88	192-1335	GMT 71
	PUSH ROD	190-1455	CHR 43	192-1336	GMC 200, 201, 208, 214, 221, GMT 122, 126, 133, MER 12, 14
190-0471	FOT 44, MAZ 53	190-1473	FOC 78, FOT 63	192-1337	GMC 200, 201, 208, 214, 221, GMT 122, 126, 133, MER 12, 14
190-1221	FOC 62, 69, 76, FOT 49, 50, 56	190-1478	GMC 124, 125	192-1338	GMC 199, 201, 208, 215, 220, GMT 122, 126, 133, 134, 135
190-1222	FOC 57, FOI 2, 3, 4, 5, 8, 10, 18, FOT 36, 61, 71, FTR 4, 5, 6, 7, 11, 12, 13, 14, 21	190-1489	GMC 138, 158, 159, 172, GMT 99	192-1339	GMC 199, 201, 208, 215, 220, GMT 122, 126, 133, 134, 135
190-1237	CHR 64, 73	190-1500	GMT 119, 120, 121	192-1377	GMT 111, 130, 131
190-1269	GMC 210	190-1502	CHR 98, 101	192-1378	GMT 111, 130, 131
190-1280	FOC 32, 41, 53, FOT 18, 23	190-1507	CHR 83, 98, 101, 115	192-1381	CHR 95, 105, 121
190-1327	FOC 41, 53, FOI 6, 7, FOT 30, 31	190-1509	CHR 67, 78	192-1399	FOC 88, FOT 73, MER 11, OMC 8
190-1328	GMC 166, 203, 219	190-1511	FOC 60, FOT 39, 40, 48	192-1409	FOC 67, 77, 78, FOT 46, 62, 63, MER 7, OMC 5
190-1342	CHR 91	190-1522	CHR 134, FOC 59, 60, FOT 38	192-1439	GMC 153
190-1349	CHI 10, CHM 2, CHR 74, GMC 117, 151, 203, 207	190-1524	FOC 48, FOT 27, MAZ 50	192-1442	CHR 85, GMT 111, 130, 131
190-1351	FOC 89, 91, 92, 95, 96, FOI 15, 16, 17, 19, 20, FOT 65, 66, 76, 79, 84, 85	190-1525	CHR 83, 101, 115	192-1444	CHR 54, GMC 82, 83, 90, 100, GMT 28, 29, 34, ISU 20, 22
190-1370	IHC 35, IHN 2, 37, 38, 48	190-1526	GMT 112	192-1446	GMC 142, 153
		190-1527	GMT 112	192-1453	CHR 44, GMC 72, 75, 76
		190-1528	GMT 112	192-1462	GMC 75, 76, 77, GMT 20
		190-1529	CHR 88	192-1480	GMC 76, 77, GMT 20, 21
		190-1530	CAS 17, 18, 19, 28, 29, CHR 108, CUM 2, 10, GMT 57, KOM 11, 17	192-1481	GMC 83, 90, 91, 92
		190-1531	FOT 93, 97, 98, IHN 61, 63, 64	192-1482	GMC 83, 90, 91, 92
		190-1532	GMC 99	192-1484	GMC 45, 55
		190-1533	GMC 125, 126	192-1485	GMC 140, 143, 156, 173, 177, 178, 179, GMT 62, 63, 64, 77, 98, ISU 35
		190-1534	GMC 93, 94, 102, 105, GMT 37, 40	192-1491	GMC 125, 126, GMT 53
		190-1535	GMC 93, 94, 102, 105, GMT 37, 40	192-1503	GMC 199, 201, 208, 215, 220, GMT 126, 133
		190-1536	FOT 74, 75	192-1504	GMC 199, 201, 208, 215, 220, GMT 126, 133
		190-1537	GMC 160, 174, 175, 180, 182, 187, 188, 189, 190, 191, 192, GMT 72, 73, 74, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 102, 103, 104, 105, 106, 107, 108, 109, 110, 115, 116, 117, ISU 33, 34, 37, 38, 39, SAB 14, 15		
		190-1538	FOT 99, IHN 65		

Application Buyers Guide

SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.
PUSH ROD (Cont'd)		ROCKER COMPONENTS (Cont'd)		ROCKER COMPONENTS (Cont'd)	
192-1505	GMT 135	180-1240	NIS 40	181-1014	GMC 199, 200, 201, 208, 214, 215, 220, 221, GMT 111, 112, 122, 126, 130, 131, 133, 134, 135, MER 12, 14
192-1506	GMT 135	180-1264	FOC 47, FOT 32, INF 7, NIS 50, 51, 56, 57	181-1016	CHR 54, GMC 39, 44, 82, 83, 90, 91, 92, 100, GMT 9, 28, 29, 34, ISU 20, 22
192-1507	GMT 135	180-1265	NIS 40	181-1017	CHR 44, GMC 72, 75, 76, 77, GMT 20, 21
192-1508	GMT 135	180-1266	NIS 40	181-1018	FOC 59, 60, FOT 38, 39, 48
192-1509	GMT 139, MER 13	180-1267	NIS 40	181-1020	GMC 142, 153, 169, 204, 217, 224
192-1510	GMT 139, MER 13	180-1283	GMC 98, 118, 139, 140, 141, 144, 150, 154, 155, 156, 157, 163, 164, 168, 173, 177, 178, 206, GMT 36, 50, 59, 62, 63, 64, 67, 68, 70, 76, 77, 78, 94, 95, 96, 97, 98, 123, ISU 35, MER 6, 8, 9, 10, OMC 4, 6, 7	181-1021	CHR 95, 97, 105, 110, 121, 126
192-1511	GMT 135			181-1023	FOC 56, 68, 75
192-1512	GMT 135			181-1025	GMC 169, 204
192-1513	GMC 55, GMT 14, ISU 13			181-1028	CHR 79, 88, IHC 19, IHN 13
ROCKER COMPONENTS				181-1032	CHR 97, 110, 126
180-1004	CHR 29, 30, 31, 46	180-1284	FOC 70, 71, 73, 74, FOT 52, 53, 67, 68, 69, 91	181-1034	FOC 86, 87, 93, 97, 98, FOI 23, FOT 72, 81, 87, 94, 95, 96, 100, 101, MER 3
180-1007	FOC 42, 43, FOT 24, 25	180-1288	CHR 67, 78	181-1035	FOC 67, 77, 78, 88, FOT 46, 62, 63, 73, 74, MER 7, 11, OMC 5, 8
180-1008	FOT 44, MAZ 53	180-1290	IHN 2, 32, 37, 48	181-1037	CHR 43, 85, 88
180-1012	FOC 59, 60, FOT 38, 39, 40, 48	180-1292	GMT 119, 120, 121	181-1040	FOC 63, FOI 9, 14, FOT 43, 57, 58
180-1028	GMC 40, 41, 46, 47, 48, GMI 1	180-1304	FOC 75	181-1041	FOC 75, 77, 88, FOT 55, 62, 73, MER 7, 11, OMC 5, 8
180-1029	FOC 27, 28, 37, FOI 14, FOT 58, 59, 60	180-1313	CHR 83, 101, 115	181-1044	GMC 196
180-1037	FOC 25, 26, 29, FOT 8, 12, 13, 14	180-1315	FOC 48, FOT 27, MAZ 50	181-1048	GMC 199, 200, 201, 214, 215, 220, 221, GMT 122, 126, 130, 131, 133, 134, 135, MER 12, 14
180-1040	GMC 84, 96, 120, 121, 122, 123, 124, 135, 170, 223, GMT 52, OMC 2	180-1317	GMT 64	181-1049	GMC 139, 140, 141, 144, 150, 154, 155, 156, 157, 163, 164, 168, 173, 177, 178, 206, GMT 67, 68, 70, 76, 77, 78, 94, 95, 96, 97, 123, MER 6, 8, 9, 10, OMC 6, 7
180-1041	GMC 84, 96, 120, 121, 122, 123, 124, 135, 170, 223, GMT 52, OMC 2	180-1318	GMT 130, 135	181-1057	GMC 137, 165, 171, 172, 202, 205, 209, 212, 222, GMT 99
180-1055	CHI 40, 41, 43, 44, 47, 48, 50, 52, CHM 22, 23, 24, CHR 116, 117, 120, 125, 128, 130, 131	180-1319	GMT 112	181-1059	GMC 137, 138, 158, 159, 171, 172, GMT 99
180-1056	CHI 40, 41, 43, 44, 47, 48, 50, 52, CHM 22, 23, 24, CHR 116, 117, 120, 125, 128, 130, 131	180-1320	CHR 20	181-1060	FOT 93, 97, 98, IHN 61, 63, 64
180-1059	FOC 85, 89, 91, 92, 96, FOI 15, 16, 17, 19, 20, FOT 65, 66, 76, 77, 78, 79, 83, 84, 85	180-1321	CHR 20	181-1061	GMC 98, 118, 139, 140, 141, 144, 150, 154, 155, 156, 157, 163, 164, 168, 173, 177, 178, 206, GMT 36, 50, 59, 62, 63, 64, 67, 68, 70, 76, 77, 78, 94, 95, 96, 97, 98, 123, ISU 35, MER 6, 8, 9, 10, OMC 4, 6, 7
180-1077	CHI 32, 37, 38, CHM 11, 12, 17, 19, CHR 82, 91, 98, 99, 100, 101, 104, 111, 112, 113, 114	180-1322	CHR 51	181-1063	GMC 45, 55, GMT 14, ISU 13
180-1078	CHI 32, 37, 38, CHM 11, 12, 17, 19, CHR 82, 91, 98, 99, 100, 101, 104, 111, 112, 113, 114	180-1323	GMC 81, 87, 88, 110, 111, 112, 113, 114, 115, 136, GMT 25, 26, 30, 32, 33, 38, 43, 44, 45, 46, 49, 60, ISU 19, 21, 27, 28, 30, SAB 10, 13, SUZ 18, 19	181-1064	GMT 135
180-1079	CHR 83, 98, 101, 115	180-1324	CHR 19, 40, 41, MIT 12	183-1014	CHR 43, 79, 85, 88, 97, 110, 126, GMC 85, 125, 158, 159, 171, 172, IHC 19, IHN 49
180-1080	CHR 83, 98, 101, 115	180-1325	FOC 65, 84, 90, FOT 45, LRV 3, MAZ 54	183-1015	CHR 54, GMC 39, 44, 82, 83, 90, 91, 92, 93, 100, 140, GMT 9, 28, 29, 34, 62, 63, 64, ISU 20, 22
180-1207	CHR 55, HYU 28, MII 8, MIT 31	180-1326	TOY 40, 45, 46, 47, 48	183-1017	GMC 98, 118, 139, 140, 141, 144, 150, 154, 155, 156, 157, 163, 164, 168, 173, 177, 178, 206, GMT 36, 50, 59, 62, 63, 64, 67, 68, 70, 76, 77, 78, 94, 95, 96, 97, 98, 123, ISU 35, MER 6, 8, 9, 10, OMC 4, 6, 7
180-1228	GMC 118, 139, 140, 141, 143, 144, 150, 154, 155, 156, 157, 163, 164, 168, 173, 177, 178, 206, GMT 36, 50, 59, 62, 63, 64, 67, 68, 70, 76, 77, 78, 94, 95, 96, 97, 98, 123, ISU 35, MER 6, 8, 9, 10, OMC 4, 6, 7	180-1328	GMT 139, MER 13	183-1020	FOC 63, 75, 77, 88, FOI 9, 14, FOT 43, 55, 57, 58, 62, 73, MER 7, 11, OMC 5, 8
180-1229	GMC 199, 200, 201, 208, 214, 215, 220, 221, GMT 111, 112, 122, 126, 130, 131, 133, 134, 135, MER 12, 14	180-1329	GMC 94, 102, 105, GMT 37, 40	183-1021	GMC 142, 169, 196, 204, 211
180-1233	FOC 86, 87, 93, 97, 98, FOI 23, FOT 72, 81, 87, 94, 95, 96, 100, 101, MER 3	180-1330	FOC 72, FOT 54, 70, 92	183-1022	FOC 27, 28, 67, 77, 78, 86, 87, 88, 93, 97, 98, FOI 14, 23, FOT 46, 58, 59, 60, 62, 63, 72, 73, 74, 81, 87, 94, 95, 96, 100, 101, MER 3, 7, 11, OMC 5, 8
180-1234	FOC 67, 77, 78, 88, FOT 46, 62, 63, 73, 74, MER 7, 11, OMC 5, 8	180-1331	GMC 103, 104, 128, 129, 130, 131, GMT 41, 55, 56		
180-1236	CHR 43, 85, 88, IHN 21	180-1332	CHR 65, 71		
180-1237	FOC 63, FOI 9, 14, FOT 43, 57, 58	180-1333	FOC 38, 44, 45, FOT 26, MAZ 43, 49		
180-1238	FOC 75, 77, 86, 88, FOT 55, 62, 73, MER 7, 11, OMC 5, 8	180-1335	CHR 76, 94		
180-1239	GMC 139, 140, 141, 144, 150, 154, 155, 156, 157, 163, 164, 168, 173, 177, 178, 206, GMT 67, 68, 70, 76, 77, 78, 94, 95, 96, 97, 123, MER 6, 8, 9, 10, OMC 6, 7	180-1336	GMC 181, 187, 188, 189, 191, 192, GMT 102, 103, 107, 110, 115, 117, ISU 39		
		180-1337	GMC 160, 174, 175, 180, 181, 182, 187, 188, 189, 190, 191, 192, GMT 72, 73, 74, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 102, 103, 104, 105, 106, 107, 108, 109, 110, 115, 116, 117, ISU 33, 34, 37, 38, 39, SAB 14, 15		
		180-1339	GMC 6, 7, 11, GMT 1, 2		
		180-1340	FOC 79, 80, 83, FOT 64		
		180-1341	FOC 65, 84, FOT 45		
		180-1342	FOC 40, 46, FOT 22		
		181-1011	GMC 98, 118, 139, 140, 141, 144, 150, 154, 155, 156, 157, 163, 164, 168, 173, 177, 178, 206, GMT 36, 50, 59, 62, 63, 64, 67, 68, 70, 76, 77, 78, 94, 95, 96, 97, 98, 123, ISU 35, MER 6, 8, 9, 10, OMC 4, 6, 7		
		181-1012	GMC 78, 95, 108, 119, 133, GMT 23, 35, 51, 59, 71, MER 1, 2, 4, 5, OMC 1, 3		

Application Buyers Guide

SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.
ROCKER COMPONENTS (Cont'd)		ROCKER COMPONENTS (Cont'd)		ROTATOR (Cont'd)	
183-1024	GMC 78, 95, 108, 119, 133, 210, GMT 23, 35, 51, 59, 71, MER 1, 2, 4, 5, OMC 1, 3	187-1052	CAS 41, CUM 45, 52, 53, 61, KOM 27	161-1079	FOT 80, 86, IHN 45, 47
183-1026	GMC 199, 200, 201, 208, 214, 215, 220, 221, GMT 111, 112, 122, 123, 126, 130, 131, 133, 134, 135, MER 12, 14	187-1062	CUM 52, KOM 27	161-1080	FOT 90
183-1027	GMC 137, 138, 158, 159, 165, 171, 172, 202, 205, 209, 212, 222, GMT 99	187-1067	CAS 41, CUM 52, KOM 27	161-1081	CHR 109, 127, CUM 4, 12, 16
183-1028	CHR 43, 79, 85, 88, 97, 110, 126, GMC 137, 138, 158, 159, 165, 171, 172, 202, 205, 209, 212, 222, GMT 99, IHC 19, IHN 13, 49	187-1068	CAS 41, CUM 45, 46, 52, KOM 27	161-1082	GMT 127
183-1030	FOC 63, 75, 77, 88, FOI 9, 14, FOT 43, 55, 57, 58, 62, 73, 74, MER 7, 11, OMC 5, 8	187-1069	DET 18	161-9002	FTR 1, 2, 3
183-1032	GMC 98, 118, 139, 141, 144, 150, 154, 155, 156, 157, 163, 164, 168, 177, 178, 206, GMT 36, 50, 67, 68, 70, 76, 77, 78, 94, 95, 96, 97, 123, MER 6, 8, 9, 10, OMC 6, 7	187-1079	DET 3, 6, 10, 18	161-9005	ISU 42
183-1034	GMT 135	187-1080	DET 2, 3, 6, 10, 18	161-9011	ISU 42
183-1035	GMT 139, MER 13	187-1081	DET 3, 6, 18	SPRING	
184-1020	GMC 199, 200	187-1087	CAT 81, 83, 84, 85, 88, 90, 95, 98, 103	160-1001	GMC 170
184-1022	FOI 14, FOT 43, 57, 58, 62, 73, MER 7, OMC 5, 8	ROTATOR		160-1003	GMC 199, 200, 201, 208, 214, 215, 220, 221, GMT 122, MER 12, 14
184-1023	CHR 95, 105, 110, 121, 126	161-1003	CAS 27, 37, 38	160-1004	FOC 78, 88, FOT 62, 63, MER 7, OMC 5
184-1025	CHR 54, GMC 39, 44, 82, 83, 90, 91, 92, 100, GMT 9, 28, 29, 34, ISU 20, 22	161-1012	GMC 78, 82, 83, 98, 118, 119, 133, 139, 140, 141, 144, 150, 155, 156, 163, 164, 168, 173, 206, GMT 50, 62, 63, 64, 71, 77, 96, 97, 119, 120, 121, MER 10, OMC 7	160-1005	FOC 9, 10
184-1032	CHR 54, GMC 39, 44, 82, 83, 90, 91, 92, 100, GMT 9, 28, 29, 34, ISU 20, 22	161-1013	GMC 220, 221, GMT 111, 112, 130, 131, 133, 134, 135, MER 12, 14	160-1006	FOI 15, 19, 20, 22, FOT 65, 66, 78, 79, 83, 84, 85, GMC 137, 158, 159, 171, 209, 222
184-1033	GMC 83, 90, 91, 92, 93, 140, GMT 34, 62, 63, 64, 139, ISU 22, MER 13	161-1018	CAT 45, 46, 47, 65, 67, 68, 69	160-1009	GMC 39, 44, 82, 139, 155, 157, 168, 206, GMT 9, 64, 76, 78, 95, 96, 123, MER 9, 10, OMC 6, 7
184-1034	FOC 86, 87, 93, 97, 98, FOI 23, FOT 72, 81, 87, 94, 95, 96, 100, 101, MER 3	161-1020	CHM 11, 12, 19, CHR 99, 100, 101, 111, 112, 114, 115, 128, 130, 131	160-1011	GMC 220, 221, GMT 133, MER 12, 14
184-1035	FOC 67, 77, 78, 88, FOI 14, FOT 46, 58, 59, 60, 62, 63, 73, 74, MER 7, 11, OMC 5, 8	161-1023	MAC 4, 7, 8	160-1013	NIS 20, 26, 42, 46, 47, 48
184-1038	CHR 44, 95, 97, 105, 110, 121, 126, FOC 63, 75, 77, 97, 98, FOI 9, 14, FOT 43, 46, 55, 57, 58, 62, GMC 71, 73, 74, 78, 95, 98, 108, 118, 119, 133, 139, 140, 141, 142, 144, 150, 153, 154, 155, 156, 157, 163, 164, 168, 169, 173, 177, 178, 196, 204, 206, 210, 211, 217, 224, GMT 23, 35, 50, 51, 59, 62, 63, 64, 67, 68, 70, 71, 76, 77, 78 (cont'd)	161-1028	CAT 31, 36, 37, 55, 56	160-1016	MII 3, 4, 5, 6
184-1039	FOC 77, 88, FOI 14, FOT 43, 57, 58, 62, 73, MER 7, 11, OMC 5, 8	161-1029	CAT 77	160-1018	CHM 11, CHR 82, 99, 100, 101, 111, 112, 114
184-1040	GMC 199, 200, 201, 208, 214, 215, 220, 221, GMT 111, 112, 122, 126, 130, 131, 133, 134, 135, MER 12, 14	161-1030	CAT 78, 79, 80, 86, 87, 96, 97	160-1019	NIS 20, 26, 42, 46, 47, 48
184-1045	GMT 135	161-1033	IHC 48, 49, 50, IHN 60, 62, 73, 74, 75, 76	160-1020	CHR 98, 99, 100, 111, 112, 113, 114
186-1090	FOC 85, 89, 92, 96, FOI 15, 16, 17, 19, 20, FOT 65, 66, 76, 77, 78, 79, 83, 84, 85	161-1035	CAT 75, 92, 93, 94, 100, 101, 104, 105, 111, 112, 113, 119, 120	160-1023	CHR 79, 88, 97, 110, IHC 19, IHN 13
186-1100	CHI 32, 37, CHM 11, 12, 17, 19, CHR 91, 98, 99, 100, 101, 104, 111, 112, 113, 114, 115	161-1038	CAT 78, 79, 80, 82, 86, 87, 89, 96, 97, 99	160-1024	FOC 67, 77, 78, 88, FOT 46, 62, 63, 73, MER 7, 11, OMC 5, 8
186-1121	CHR 67, 78	161-1039	DET 11, 12, 13, 15	160-1025	TOI 10, 11, 13, TOY 78, 79, 81
187-1014	GMC 84, 96, 120, 121, 122, 123, 124, 125, 135, 170, 223, GMT 52, OMC 2	161-1040	JON 39, 42, 45, 55, 56, 60, 61, 62, 63, 68, 69, 70, 71, 76	160-1030	CHR 8, 9, 10, MIT 5
187-1051	CUM 45, 46, 52, KOM 27	161-1041	CAT 59, 60, 71, 72, 73, 74	160-1031	CHR 18, 24, 48, MIT 9, 10, 13, 29
		161-1042	JON 25, 26, 38, 46, 47, 54, 64, 65	160-1038	TOY 40, 45, 52
		161-1045L	CUM 57, 58	160-1041	FOC 77, 87, 93, FOT 62, 72, 87, MER 7, OMC 5
		161-1046	IHC 42, 51, 52, IHN 40, 59, 70, 71, 80, 81	160-1044	FOC 67, 77, 78, 88, FOT 46, 73, MER 11, OMC 8
		161-1047	CAT 81, 83, 84, 85, 88, 90, 95, 98, 103	160-1047	FOC 77, 88
		161-1049	IHC 51, IHN 59, 71, 81	160-1049	GMC 138, 158, 172, GMT 99
		161-1052	MAC 12, 13	160-1054	FOC 77, 78, 88, FOT 74
		161-1053	GMT 135, 139, MER 13	160-1055	GMC 19, 20, TOY 4, 5, 12, 19
		161-1054	JON 75	160-1064	GMC 40, 41
		161-1056	MAC 13	160-1071	FOC 78, FOT 74
		161-1057	FOC 61, FOT 41, FTR 1, 2, 3	160-1072	FOC 48, FOT 27, MAZ 50
		161-1058	FTR 1, 2, 3	160-1076	GMC 83, 84, 85, 90, 91, 92, GMT 34, OMC 2
		161-1059	IHN 72, 86	160-1079	CHR 24, 25, 33, 48, 49, 55, HON 11, HYU 20, 28, MAZ 44, MII 8, MIT 10, 13, 14, 23, 24, 29, 30, 31
		161-1067	CAT 107, 116, 122, 130	160-1080	FOC 13, 14
		161-1068	CAT 107, 116, 122, 130	160-1083	GMC 76, 77, GMT 20, 21
		161-1069	CAT 106, 108, 109, 115, 117, 118, 121, 123, 124, 126, 127	160-1085	GMC 99, 125, 126, GMT 53
		161-1072L	CUM 50, 52	160-1086	GMC 45, 55
		161-1073	CUM 10	160-1096	KIA 11, MAI 5, 6, MAZ 22, 23, 24, 28, 29
		161-1074	MAC 12, 13	160-1097	KIA 11, MAI 5, 6, MAZ 22, 23, 24, 28, 29
		161-1075	CUM 28, 29	160-1099	GMC 76, 77, GMT 20
		161-1076	JON 74	160-1103	GMC 134, 146, 152
		161-1077	CAT 107, 116, 122, 128, 129	160-1106	TOY 45, 46, 47, 48
		161-1078	CAT 107, 116, 122		

Application Buyers Guide

SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.
SPRING (Cont'd)		SPRING (Cont'd)		SPRING (Cont'd)	
160-1112	GMC 58, 59, 61	160-1157	GMC 169, 204	160-1253	TOY 65, 66
160-1114	CHR 28	160-1159	FOC 88, FOI 4, 5	160-1261	HON 22, 23, 24, 38
160-1116	GMC 109, 127, GMT 54, 61	160-1161	CHI 32, 35, 36, CHR 95, 105, 121, FOC 86, 87, 97, 98, FOI 23, FOT 72, 100, MER 3	160-1262	HON 22, 23, 24, 38
160-1117	GMC 78, 108, 141, 150, 210, GMT 23, 67, 70, MER 1, 6, OMC 1, 4	160-1162	FOC 93, FOT 87	160-1264	FOT 44, MAZ 53
160-1118	GMC 162, 196, 211	160-1164	CHR 97, 110, 126	160-1266	GMC 143, 177, GMT 64, 77, 97, 98, ISU 35
160-1119	GMC 162, 196, 211	160-1171	MAC 4, 6, 7, 9, 15	160-1267	GMC 55, 125, 126, GMT 14, ISU 13
160-1120	FOC 56, 57, 62, 68, 69, 75, 76, 82, FOI 1, 2, 3, 8, 11, 13, 18, FOT 36, 42, 47, 49, 50, 56, 61, 71, FTR 4, 5, 6, 11, 12, 13, 14	160-1175	FOC 92, 96, FOI 20, FOT 65, 77, 78, 79, 84, 85	160-1269	FOC 73
160-1121	GMC 184, 185, 197, 213, 218, 225, 226	160-1176	CUM 57	160-1271	NIS 40
160-1122	CHI 2, 3, 10, 11, 37, 38, CHR 53, 73, 82, 91, 98, 99, 100, 101, 111, 112, 113, 114	160-1177	CAS 41, CUM 52, 61, KOM 27	160-1272	NIS 40
160-1124	FOC 85, 89, FOI 16, 17, FOT 76	160-1178	CAT 76, 77	160-1285	IHC 43, 44, 46, 47, IHN 57, 58
160-1125	CHR 44, GMC 71, 72, 73, 74, 75, 76, 77, 78, 95, 119, 133, 142, 150, 153, 163, 164, GMI 2, GMT 23, 51, 59, 70, 71, 94, MER 1, 2, 4, 5, 6, OMC 1, 3, 4	160-1179	CAT 31, 32, 36, 37, 52, 55, 56	160-1286	IHC 43, 44, 46, 47, IHN 57, 58
160-1126	GMC 127, GMT 42, 54	160-1184	CAT 78, 79, 80, 82, 86, 87, 89, 96, 97, 99	160-1287	IHC 23, 26, 29
160-1127	FOC 32, 41, FOT 18, 23	160-1185	DET 3	160-1288	IHC 23
160-1130	GMC 203, 207	160-1186	DET 6, 18	160-1289	IHC 10, 12
160-1131	FOC 32, 41, 53, 66, FOI 6, 7, FOT 30, 31	160-1187	DET 3	160-1290	IHC 9, 11, 13, 15, 16, 18, 20, 24, 30, 31, 32, 33, 34
160-1132	FOC 75	160-1189	MAC 5, 10, 11, 12	160-1291	ALL 19, 20, MFT 15, 16, 17, 18, 19, 20, 24, 25, 27, 28, 29, 30, 31, 32, 33, 37, 38, PER 19, 20, 21, 22, 23, 24, 28, 29, 36, 37, 38, 39, 40, 41, 42, 43, 48, 49
160-1134	CHR 110, FOC 63, FOI 9, 14, FOT 43, 57, 58	160-1190	IHC 37, 41, 42, 48, 49, 50, IHN 39, 40, 60, 62, 73, 74, 75, 76	160-1295	MAC 4, 6, 7, 9, 15
160-1135	FOC 63, FOI 9, 14, FOT 43, 57, 58	160-1191	CAT 93, 94, 104, 105, 113, 114, 119, 120	160-1296	MAC 4, 6, 7, 9, 15
160-1136	GMC 162, 169, 196, 204, 217, 224, NII 6, 10	160-1192	CAT 45, 46, 47, 65, 67, 68, 69	160-1300	IHC 31
160-1137	GMC 162, 169, 196, 204, 217, 224	160-1194	DET 10	160-1301	ALL 19, 20, MFT 15, 16, 17, 18, 19, 20, 24, 25, 27, 28, 29, 30, 31, 32, 33, 37, 38, PER 19, 20, 21, 22, 23, 24, 28, 29, 36, 37, 38, 39, 40, 41, 42, 43, 48, 49
160-1138	GMC 214, 215	160-1196	CAT 75, 92, 93, 94, 100, 101, 104, 105, 111, 112, 113, 114, 119, 120	160-1302	CUM 51
160-1139	GMC 199, 201, 208, 214, 215, 220, GMT 122	160-1197	CAT 75, 92, 93, 94, 100, 101, 104, 105, 111, 112, 113, 114, 119, 120	160-1303	CAS 40, CUM 36
160-1140	CHR 66, 88, 93, 103	160-1198	CAT 29, 30, 61, 62, 63	160-1304	CAS 40, CUM 36
160-1141	GMC 220, 221, GMT 111, 130, 131, 133, 134, MER 12, 14	160-1201	FOI 23, FOT 95, 96, 101	160-1305	CUM 52, KOM 27
160-1142	FOC 75	160-1203	FOT 58, 59, 60	160-1306	CUM 46
160-1143	CHI 40, 41, 43, 44, 45, 47, 48, 50, 52, CHR 116, 117, 120, 125, 128, 130, 131	160-1204	FOT 81, 94	160-1307	TOI 6, TOY 32, 41
160-1144	GMC 60, 98, 118, 120, 122, 139, 140, 144, 150, 154, 155, 156, 157, 163, 164, 168, 173, 206, GMT 50, 52, 62, 63, 64, 68, 70, 76, 77, 78, 94, 95, 96, 97, 123, MER 6, 8, 9, 10, OMC 4, 6, 7	160-1205	JON 14, 18, 19, 23, 24, 25, 26, 27, 31, 34, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 49, 51, 54, 55, 56, 59, 60, 61, 62, 63, 64, 65, 68, 69	160-1318	SUZ 2, 3, 5, 6
160-1144HP	GMC 98, 118, 120, 122, 139, 140, 144, 150, 154, 155, 156, 157, 163, 164, 168, 173, 206, GMT 50, 52, 62, 63, 64, 68, 70, 76, 77, 78, 94, 96, 97, 123, MER 6, 8, 9, 10, OMC 4, 6, 7	160-1206	FOT 93, 97, 98, 99, IHC 35, 39, 45, IHN 2, 33, 37, 38, 48, 53, 54, 55, 61, 63, 64, 65, 66, 69, 77, 78, 82, 83, 84, 85, 87	160-1319	TOY 67
160-1145	GMC 219, 223	160-1207	CAT 78, 79, 80, 86, 87, 96, 97	160-1338	GMC 69
160-1147	GMC 165, 171, 202, 205, 212, 222	160-1211	FTR 8, 9, 10, 15, 16, 17, 18, 19, 22, 23, 25, 26, 29, 30	160-1342	CHR 68
160-1148	GMC 95, 119, 133, GMT 35, 51, 59, MER 4, 5, OMC 3	160-1212	FOI 5, FTR 8, 9, 10, 15, 16, 17, 18, 19, 22, 23, 25, 26, 27, 29, 30	160-1343	CHR 68
160-1149	CHR 120, 125, 130, 131	160-1213	CAT 78, 79, 80, 86, 87, 96, 97	160-1347	CHR 19, MIT 12
160-1150	CHR 104, 111, 112, 113, 114	160-1216	FOC 47, FOT 32, INF 7, NIS 50, 51, 56, 57	160-1348	CAS 18, 19, 29, CHR 108, CUM 2, 10
160-1151	FOC 75, 77, FOT 55, 62, MER 7, OMC 5	160-1217	CAT 62, 63, IHN 49	160-1352	CHR 51
160-1152	FOC 75	160-1218	CAT 62, 63, IHN 49	160-1358	GMC 18, 28, TOY 21
160-1154	FOC 86, 94, 96	160-1219	ALL 13, 24, 25, 26, 30, 31	160-1360	GMC 42
160-1156	GMC 169, 204	160-1220	ALL 1, 2, 3, 4, 5, 6, 7, 14, 15, 16	160-1363	GMC 93, 94, 102, GMT 37
		160-1223	CAS 2, 4, 5, 8, 9, 10, 11, 12, 13, 14, 15	160-1365	GMC 101
		160-1225	CAS 20, 21, 23, 30, 35, 36	160-1366	GMC 132, 147, 148
		160-1226	CAS 27, 33, 34, 35, 37, 38	160-1372	ACU 26, HON 102, ISU 23, 24
		160-1227	CHR 130, 131	160-1377	CHR 20
		160-1228	CAT 29, 30, 61, 62, 63	160-1378	CHR 43, 83, 85, 101, 115, 134
		160-1233	GMT 119, 120, 121	160-1379	CAS 17, 19, 28, 29, CHR 108, CUM 2, 10
		160-1236	HON 25, 26		
		160-1238	HON 42	160-1383	FOT 14, 21, MAZ 35, 41
		160-1241	HON 84	160-1393	ACU 11, HON 77
		160-1252	GMC 18, TOY 17, 18, 33, 38	160-1394	ACU 11, HON 77
				160-1396	CAT 106, 108, 109, 115, 117, 118, 121, 123, 124, 126, 127
				160-1397	CAT 106, 108, 109, 115, 117, 118, 121, 123, 124, 126, 127
				160-1398	FOC 19

Application Buyers Guide

SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.
SPRING (Cont'd)		SPRING (Cont'd)		SPRING (Cont'd)	
160-1401	CON 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 14, 15, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 31, 32, 33, 53, 56, MFT 2, 3, 4, 5	160-1487	DAE 1, GMC 24	160-1569	CAT 14, 25, MFT 12, PER 15, 16, 31, 32
160-1404	IHC 43, 44, 46, 47, IHN 57, 58	160-1488	GMC 160, 175, 181, 191, GMT 72, 73, 74, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 102, 103, 104, 105, 107, 108, 109, 110, 115, 116, 117, ISU 33, 34, 37, 38, 39, SAB 14, 15	160-1570	ISI 4, ISU 32
160-1405	IHC 43, 44, 46, 47, IHN 57, 58	160-1489	IHN 72, 86	160-1571	ISI 4, ISU 32
160-1406	CUM 50, 52	160-1490	FOC 38, 44, 45, FOT 26, MAZ 43, 49	160-1572	CAT 57
160-1407	GMC 98, 118, 120, 122, 139, 140, 144, 150, 154, 155, 156, 157, 163, 164, 168, 173, 206, GMT 50, 52, 62, 63, 64, 68, 70, 76, 77, 78, 94, 96, 97, 123, MER 6, 8, 9, 10, OMC 4, 6, 7	160-1492	IHC 8, 14, 17, 21, 22, 28, 36, 40	160-1575	CAT 81, 83, 84, 85, 88, 90, 95, 98, 103
160-1408	FOC 70, 71, FOT 52, 67, 91	160-1493	KUB 8, 9, 10, 11, 13, 14, 15, 16, 17	160-1576	GMI 1
160-1409	FOI 23, FOT 100, 101	160-1494	IHC 3, 4, 5, 7	160-1577	CAT 57
160-1410	GMT 135	160-1495	KUB 4	160-1579	GMC 88, 113, 115, GMT 26, 30, 43, 45, 49, 60, ISU 21, 28, 30, SAB 13
160-1411	FOC 70, 71, FOT 52, 67, 68, 91	160-1496	CAT 18, 19, 39, 40, MFT 22, 23, 35, 36, PER 25, 27, 45, 46	160-1580	FOC 16, 17, FOT 6, MAZ 20
160-1414	CUM 36, 37, 38	160-1497	CAT 18, 19, 39, 40, MFT 22, 23, 35, 36, PER 25, 27, 45, 46	160-1584	MII 1, 2
160-1416	IHC 51, 52, IHN 59, 70, 71, 80, 81	160-1498	CAT 20, 38, MFT 21, 34, 39, PER 26, 44, 47	160-1585	JON 74
160-1417	IHC 51, 52, IHN 59, 70, 71, 80, 81	160-1499	CAT 21, MFT 26, PER 30	160-1586	CAT 57
160-1418	DET 11, 12, 13, 15	160-1502	CAT 13, PER 12, 13, 14	160-1587	CAT 57
160-1424	CUM 53	160-1503	IHC 1	160-1588	GMC 54, 70, 79, 80, 81, 87, 88, 110, 111, 112, 113, 114, 115, GMT 12, 24, 32, 33, 43, 44, 45, 46, SAB 10, SUZ 18, 19
160-1425	FOC 73, 74, FOT 53, 69	160-1504	FOC 65, FOT 45, LRV 3, MAZ 54	160-1590	NIS 21, 32, 44, SUZ 16
160-1426	CHR 40, 41, 42	160-1505	NII 7, 11	160-1591	NIS 44, SUZ 16
160-1429	MIN 7	160-1506	FOT 15, 16, MAZ 36	160-1592	CAS 39, CUM 28, 29
160-1431	GMT 139	160-1507	GMT 112, MER 12, 14	160-1599	FOC 54, 58, FOT 34, 37, MAZ 51, 52
160-1432	CHR 94, MIT 40	160-1508	GMC 50, 51, 52, 56, 57, 63, 64, 65, 66, 67, 68, GMT 15, 16, 17, 18, 19, SAB 5	160-1600	NIS 21, 32
160-1433	FTR 1, 2, 3	160-1513	MAI 3, 4	160-1601	MIC 7, 8
160-1434	ISI 2, ISU 29	160-1514	CAT 15, 16, 28, MII 9, 11	160-1602	JON 43, 66
160-1435	ISI 2, ISU 29	160-1515	NII 1, 2	160-1603	NIS 17
160-1436	GMC 55, GMT 14, ISU 13	160-1516	NII 3	160-1604	IHC 2, 3, 6
160-1437	FOC 48, FOT 27, MAZ 50	160-1517	NII 16	160-1606	CAT 67
160-1443	CHR 67, 78	160-1518	NII 13, 18	160-1607	GMC 103, 104, 128, 129, 130, 131, GMT 41, 55, 56
160-1444	GMC 29, TOY 23	160-1521	TOI 1, 3	160-1609SSA	CHR 94
160-1446	GMT 139	160-1523	TOI 5	160-1610	MER 13
160-1447	JON 70, 71, 76	160-1527	CUM 2, 3, 10, KOM 11, 17	160-1611	FOT 82
160-1448	JON 72, 73, 75	160-1528	CHR 52	160-1612	CHR 76, MIT 38
160-1449	JON 72, 73, 75	160-1529	CHR 52	160-1614	CHR 76, MIT 38
160-1450	CHR 106	160-1531	HIN 7, 14	160-1615	JON 71
160-1451	CAT 24, 43, 49	160-1532	HIN 1, 5, 6	160-1616	FOT 90
160-1453	CAT 50, 51	160-1533	HIN 1, 5, 6	160-1617	FOC 79, FOT 64
160-1454	CAT 50, 51	160-1536	HIN 7, 8, 9, 10, 11, 12, 14	160-1619	MAC 3, 14, VVD 1, 2, 3
160-1456	JON 77, 78, 79	160-1537	HIN 7, 8, 9, 10, 11, 12, 14	160-1620	MAC 3, 14, VVD 1, 2, 3
160-1457	GMT 127	160-1543	MFT 6, 7, 8, 9, 10, 13, 14, PER 7, 8, 9, 10, 11, 17, 18	160-1621	SAB 7, SUB 16, 19, 20
160-1458	FOT 51, 80, 86, IHN 29, 45, 47	160-1545	ISI 9, ISU 42	160-1622	SUB 20
160-1459	CUM 2, 10	160-1546	ISI 9, ISU 42	160-1623	GMC 174, 182, 187, 188, 189, 190, 192, GMT 106
160-1460	CAT 107, 116, 122, 128, 129, 130	160-1551	ISI 3, ISU 31	160-1624	MAC 12, 13
160-1461	CAT 107, 116, 122, 128, 129, 130	160-1552	ISI 3, ISU 31	160-1625	MIC 1, 2, 3, 4, 5, 6, 7, 8
160-1462	CAT 59, 60, 71, 72, 73, 74	160-1553	ISI 3, 7, ISU 31, 40	160-1627	CHR 118
160-1463	CAT 59, 60, 71, 72, 73, 74	160-1554	ISI 3, 7, ISU 31, 40	160-1628	CHR 118
160-1464	CAT 81, 83, 84, 85, 88, 90, 95, 98, 103	160-1555	ISI 5, 6, ISU 36	160-1629	CUM 28, 29
160-1466	MAC 13	160-1556	ISI 5, 6, ISU 36	160-1631	FOC 55, FOT 35
160-1471	AUD 8, 46, 48, 54, 55, VKW 17, 24, 25, 55	160-1557	ISI 5, 6, ISU 36	160-1632	GMC 26, 31
160-1472	AUD 8, 46, 48, 54, 55, VKW 17, 55	160-1558	ISI 5, 6, ISU 36	160-1634	GMC 145, 147, 148, 149, GMT 69
160-1475	GMC 76, 77, GMT 20, 21	160-1563	HIN 7, 14	160-1635	BUD 1, 10, 17, 26
160-1479	CUM 44, 49, 54, 55, 56	160-1564	NII 19	160-1636	DET 14, 16, 17
160-1480	GMT 25, 38, 60, ISU 19, 27, 30	160-1565	NII 19	160-1637	DET 14, 16, 17
160-1482	NII 5, 8, 12, 14, 15, NIS 35, 43	160-1566	ISI 7, ISU 40	160-1638	CAT 1, 2, 3, 5, 7, 8, 9, 10, 11, NHL 2, 3, PER 4, 5, 6, SHB 2, 3
160-1483	CHR 43, 85	160-1567	ISI 7, ISU 40	160-1639	CHR 60, MBT 3, MBZ 3
160-1484	CHR 109, 127	160-1568	FOC 20, 30, 34, 35, FOT 7, 10, 15, 16, 19, MAZ 26, 27, 36, 37, 38	160-1640	CHR 60, MBT 3, MBZ 3
160-1485	FOC 72, FOT 54, 70, 92			160-1641	CUM 57, 58
160-1486	DET 15				

Application Buyers Guide

SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.
SPRING (Cont'd)		STEM SEAL (Cont'd)		STEM SEAL (Cont'd)	
160-1642SSA	CHR 106, 123, 124	122-1007	IHC 30, 32, 33	122-1047	CHR 44, 74, FOC 25, 76, FOI 9, FOT 36, 43, 50, 57, 58, 59, 60, 72, 73, 74, 95, 96, GMC 82, 83, 100, 133, 138, 143, 153, 168, 169, 170, 171, 172, 213, 225, 226, GMT 28, 64, 123, MER 11, OMC 8
160-1643	DET 5, 7, 8, 9, MBD 1, 2, 4, 5	122-1009	FOC 66, FOI 6, 7, FOT 18, 23, 31	122-1048	FOC 57, 63, 67, 77, 78, 86, 87, 88, 93, 97, FOI 8, FOT 8, 87, GMC 60, 71, 72, 73, 74, 75, 76, 77, 78, 95, 96, 98, 117, 118, 120, 121, 122, 123, 127, 135, 139, 154, 155, 157, 158, 159, 163, 164, 206, 210, 211, 212, 217, 221, 222, 224, GMT 20, 35, 36, 50, 52, 54, 59, 62, 63, 76, 78, 96, MER 5, 6, 8, 9, 10, OMC 3, 4, 7
160-1645	PER 33, 34	122-1011	CHM 22, 24, FOC 85, FOT 76, GMC 203, 207	122-1051	CHI 2, 3, 10, 11, 32, 33, 38, CHM 2, CHR 64, 73, 98, 99, 100, 104, 111, 113, 114, 120, 125, 128, 130, 131
160-1646	GMC 6, 7, 11, GMT 1, 2	122-1014	CAS 13, 15, CHM 20, CHR 77, 86, CUM 40, 41, 60, DET 2, FOC 62, 75, FOT 42, GMT 23, 54, 71, IHC 2, 3, 4, 6, 7, 10, 13, KOM 26, MER 1, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, OMC 1, 6, 7	122-1052	CHR 43, 46, 85, GMC 8, 23, 39, 44, 45, 55, GMT 9
160-1647	IHN 88	122-1015	ALL 19, 20, CHR 64, 73, 82, 83, 91, JON 14, 20, 27, 30, 31, 35, 48, 52, 53, 60, 68, MFT 18, PER 21	122-1053	CAS 18, 19, 28, 29, CHR 43, 46, 85, 108, CUM 2, 10, 17, 39, GMC 23, 39, 44, 45, 55, GMT 9, 57
160-1648	MBD 6, 7	122-1017	ALL 30, 31, CHR 93, JON 61	122-1059	CHR 66, 79, 88, 97, 105, 110, 121, 126, FOT 93, 97, 98, IHC 19, IHN 13, 49, 61, 63, 64
160-1649	JON 15, 28	122-1023	JON 14, 20, 27, 30, 31, 35, 36, 48, 52, 53, 60, 68, 72	122-1063	CHR 53, 98, 99, 100, 111, FOT 94
160-1650	CHR 108, CUM 2, 10, KOM 11, 17	122-1031	ALL 14, 15, 16, CHM 11, 13, 18, 20, 22, 23, 24, CHR 92, 95, 97, 102, 105, 110, 116, 117, 121, 126, FOC 89, 92, 94, 96, FOI 16, 17, FOT 65, 78, 84, GMC 199, 200, 201, 208, 214, 215, 219, 220, 223, GMT 100, 119, 120, 121, 122, 126, 133, 134, 135, IHC 11, 15, 20, 23, 25, 26, 29, 31, MER 12, 14	122-1065	FOC 48, FOT 27, MAZ 50
160-1651	KOM 20, 21	122-1032	FOI 1, 3, FOT 50, 87, FTR 4, 5, 6, 11, 12, 13, 14	122-1066	FOC 48, FOT 27, MAZ 50
160-1652	KOM 19, 20, 21	122-1033	FOC 85, 91, 92, 94, 95, 96, FOI 16, 17, FOT 65, 76, 78, 84	122-1067	FOC 43, FOT 25, 44, MAZ 53
160-1653	KOM 4, 5, 8, 15, 16	122-1034	FOC 32, 41, 53, 66, FOI 6, 7, FOT 23, 30, 31	122-1069	GMC 83, 90, 91, 92, JON 25, 26, 38, 46, 47, 54, 64, 65
160-1656	CHR 65, 71, 72	122-1035	FOC 63, 76, FOI 9, 14, FOT 43, 57, 58	122-1073	GMC 17, 46, 47, 48, GMI 1
160-1658	GMT 11, NIS 22, 32	122-1036	FOC 89, 95, FOI 19, 20, 22, FOT 66, 79, 81, 83, 94, GMT 111, 112	122-1074	FOC 59, 69, 82, 98, FOI 11, 13, 23, FOT 38, 56, 100, 101, GMC 137, 165, 173, MER 4, 5, 6, 7, 8, 9, 10, 11, OMC 4, 6, 7
160-1659	GMT 11, NIS 22, 32	122-1037	CHR 44, GMC 71, 72, 73, 74, 75, 76, 77, 78, 82, 83, 90, 95, 96, 98, 118, 127, 133, 135, 138, 139, 144, 150, 153, 154, 155, 156, 157, 158, 159, 163, 164, 168, 169, 170, 171, 172, 173, 178, 206, GMT 20, 23, 28, 29, 34, 35, 36, 50, 54, 59, 62, 63, 76, 78, 96, 123, IHC 5, MER 1, 10, MFT 29, OMC 1, 3, 4, 7, PER 37, 38, 40, TOI 9	122-1075	CHR 54, 66, 79, 88, FOC 26, FOI 20, FOT 11, 12, 13, 14, 57, 58, 59, 60, 62, 63, 75, 95, 96, 101, GMC 84, 85, 99, 118, 120, 121, 122, 124, 125, 126, 140, 144, 150, 155, 156, 157, 163, 164, 168, 173, 209, GMT 29, 50, 51, 76, 77, 78, 94, 95, 96, 97, IHC 19, MAZ 35, 44, MER 4, MII 1, OMC 2, 5, SAB 3
160-1660	YAN 21, 22	122-1038	CHR 93, FOC 75, 77, 78, 86, 87, 88, 93, FOT 55, 62, 72, 73, 74, 87, MER 7, OMC 5, 8	122-1077	GMC 76, 77, GMT 20, 21, MER 2
160-1661	YAN 14, 16	122-1039	FOC 9, 10, 11, 18, 42, FOT 24	122-1079	CHR 29, 30, 31, 47, 67, 78
160-1662	JON 11, YAN 8	122-1040	CHR 103, GMC 96, 135	122-1082	NII 1, 2, 4, NIS 2, 3, 4, VOL 13, 14, 15, 17, 18, 22, 23, 38, 39
160-1663	KOM 12, 13, YAN 17, 18, 19, 20	122-1041	CHI 2, 3, 10, 11, 32, 33, 34, 35, 36, 37, 38, CHR 91, 95, 103, FOC 57, 97, 98, FOI 2, 3, 4, 5, 8, 23, FOT 36, 46, GMC 205, IHC 34	122-1086	CHR 8, 9, 10, 14, 18, 24, 25, 32, 33, 48, 49, 55, FOT 11, HYU 20, 28, MAZ 44, MII 1, 2, 3, 4, 5, 6, 8, MIT 5, 8, 9, 10, 13, 14, 22, 23, 24, 29, 30, 31, SAB 3
160-1664	KOM 3, 10, YAN 13, 15	122-1043	CHR 44, FOI 14, 19, 20, 22, FOT 77, 79, 83, 85, GMC 71, 72, 73, 74, 75, 76, 77, 78, 82, 83, 90, 95, 98, 108, 109, 118, 119, 127, 133, 138, 139, 140, 141, 142, 144, 150, 154, 155, 156, 157, 158, 159, 163, 164, 168, 169, 170, 171, 172, 173, 178, 196, 204, 206, 210, 211, 212, GMI 2, GMT 20, 23, 28, 29, 34, 35, 36, 50, 54, 59, 61, 62, 63 (cont'd)	122-1088	TOI 2, TOY 3, 28, 47
160-1665	JON 1, 2, 3, 4, 8, 9, 10, 12, 13, KOM 1, 2, THE 2, 3, YAN 1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12	122-1045	GMC 199, 201, 208, 210, 215, 220, 221, GMT 122, 126, 130, 131, 133, 134, 135, MER 12, 14	122-1089	AUD 1, 2, 3, 5, 7, 14, 35, 36, 37, 38, 39, 40, 42, 47, CHR 13, VKW 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16, 50, 51
160-1666	FOC 40, 46, FOT 22	122-1046	CHR 64, 73, 98, 99, 100, 104, 111, 113, 114, 120, 125, 128, 130, 131	122-1114	CHR 5, 6, 7, 11, 12, 26, 27, 57, 58, HYU 2, 3, 8, 12, 15, 21, 29, 33, KIA 19, 30, MIT 1, 2, 3, 4, 6, 7, 15, 16, 17, 26, 32, 33, 36
160-1667	JON 43, 66			122-1116	CAT 15, 16, 28, MII 9, 11, NIS 5
160-1669	CAS 39, CUM 28, 29			122-1119	GMT 7, 8, HON 96, ISU 7, 8, 9, 10, 16, 18, NII 9, 17, 19, NIS 26, 27, 28, 29, 38, 39, 40, 42, 47, 48, 50, 51
160-1670	CAT 58				
160-1671	CAT 58				
160-1672	CAT 58				
160-1673	CAT 58				
160-1674	JON 44, 67				
160-1675	JON 44, 67				
160-1676	CAT 107, 116, 122, 128, 129				
160-1677	CAT 107, 116, 122, 128, 129				
160-1678	DET 16				
160-1679	DET 16				
160-1680	CHR 38				
160-1681	CHR 38, 39, FIA 4				
160-1682	CHR 22, 38, 39, FIA 4				
160-1683	CUM 4, 11, 12, 16				
160-1684	FOC 21, 22, 31, 36, FOT 9, 20, LRV 1				
160-1685	FOC 21, 31, FOT 9, 17				
160-1688	GMT 65, 66, 90, 91, 92, 93				
160-1689	CUM 30, 31				
160-1692	FOC 3, 4, 5, FOT 2, 3				
160-1694	IVE 1				
160-1695	PCR 1, 2				
160-1696	PCR 1, 2				
160-1697	PCR 1, 2				
160-1698	HIN 2, 3, 4, 13, 15, 16				
160-1699	HIN 2, 3, 4, 13, 15, 16				
160-1700	GMC 89, 111, 116, GMT 47, 48				
160-1701	GMT 128, 129				
160-1702	PCR 1, 2				
360-1020	CHR 109, 127, CUM 11, 16				
360-1021	FOT 80, 86				
360-1022	GMT 127				
STEM SEAL					
122-1003	FOI 21, 24, 25, FOT 88, 103, 104, 105	122-1046	CHR 64, 73, 98, 99, 100, 104, 111, 113, 114, 120, 125, 128, 130, 131		
122-1005	IHN 21				
122-1006	FOC 27, 56, FOI 14, 23, FOT 101				

Application Buyers Guide

SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.
STEM SEAL (Cont'd)		STEM SEAL (Cont'd)		STEM SEAL (Cont'd)	
122-1125	TOI 3, 10, 13, TOY 78, 79, 81	122-1202	ACU 1, 3, 4, 5, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 23, 24, 25, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 45, 46, 47, 48, GMT 39, HON 1, 6, 7, 8, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 46, 47, 48, 49, 50, 51, 52, 53, 54, 68, 69, 70, 71, 72, 73, 74, 76, 77, 78 (cont'd)	122-1253	CHR 34, 45, 59, MIT 34, 35, 37, 39
122-1127	TOI 6, TOY 1, 2, 20, 22, 31, 32, 40, 41, 45, 46, 64, 67	122-1203	GMC 134, 146, 152	122-1254	CHR 63, 68, 84
122-1130	GMC 15, 16, 20, ISU 1, 2, LEX 20, TOY 82	122-1204	CHR 43, 83, 85, 101, 115, 133, 134, 135	122-1258	GMC 125, 126
122-1132	KIA 11, MAI 5, 6, MAZ 4, 6, 17, 21, 22, 23, 24, 28, 29, 47	122-1205	CHR 43, 83, 85, 101, 115, 133, 134, 135	122-1259	GMC 125, 126
122-1136	ACU 2, 21, 22, HON 5, 9, 10, 15, 16, 17, 18, 19, 20, 21, 55, 56, 59, 60, 61, 62, 63, 64, 65, 75	122-1206	FOC 9, 10, 11, 14, 19	122-1260	GMC 143, 177, 178, 179, GMT 64, 77, 98, ISU 35
122-1137	GMT 13, ISI 1, 4, 8, ISU 14, 15, 32, 41	122-1207	MIN 7	122-1262	FOT 32, INF 7, NIS 40, 41, 51, 56, 57
122-1139	FOC 47, INF 14, NII 6, 7, 10, 11, NIS 19, 23, 30, 31, 40, 50, 51	122-1212	MFT 6, 7, 13, PER 7, 8, 17, 35	122-1263	FOC 47, FOT 32, GMC 37, 38, INF 7, ISU 11, NII 8, 12, NIS 9, 20, 36, 37, 43, 46, 49, 51, 56, 57
122-1141	NIS 6, 7, 8, 12, 13, 14	122-1215	FOC 60, FOT 39	122-1266	GMC 29, 35, 62, LEX 1, 3, 4, 5, 8, 9, 11, 13, 14, 15, 16, 17, 21, 22, 24, 25, 26, SCI 1, 3, 4, 5, TOY 23, 25, 26, 27, 30, 37, 43, 44, 53, 54, 55, 56, 60, 61, 69, 72, 74, 75, 76, 77, 80, 83, 85, 86
122-1142	GMC 1, 2, 4, GMT 4, SUZ 2, 3, 5, 6	122-1216	FOC 60, FOT 39	122-1269	CAS 17, 19, 29, CHR 108, CUM 2, 3, 10, GMT 57, KOM 11, 17
122-1147	ACU 26, FOC 7, 15, GMC 18, 19, 21, 22, 28, 36, HON 102, HYU 5, ISU 3, 4, 5, 6, 23, 24, LEX 6, 18, MAZ 10, 13, 14, 16, 18, 48, TOY 6, 7, 9, 13, 14, 15, 16, 17, 18, 21, 33, 34, 35, 38, 51, 57, 62, 65, 66, 70, 71	122-1217	GMC 85, 120, 121, 122, 123, 124, 125, 126, 184, 185, GMT 52, 53	122-1270	CHR 44, GMC 71, 72, 73, 74, 75, 76, 77, 78, 82, 83, 90, 95, 96, 98, 118, 127, 133, 135, 139, 144, 150, 153, 154, 155, 156, 157, 158, 159, 163, 164, 168, 169, 170, 171, 172, 173, 178, 206, GMT 20, 23, 28, 29, 34, 35, 36, 50, 54, 59, 62, 63, 76, 78, 96, 123, IHC 5, MER 1, 10, MFT 28, 29, OMC 1, 3, 4, 7, PER 37, 38, 39, 40
122-1149	FOC 2, 6, 23, 24, MAZ 8, 30, 46, 47, 48	122-1218	GMC 85, 120, 121, 122, 123, 124, 125, 126, GMT 53	122-1274	MAC 5, 12, 13
122-1150	INF 1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 15, 16, 17, 18, 19, NIS 11, 15, 24, 34, 44, 45, 52, 53, 54, 55, 58, 59, 60, 61, 62, 63, 64, 65, 66, SUZ 16, 20	122-1221	DET 2, 10	122-1276	GMC 69
122-1152	ACU 2, 6, 21, 22, HON 66, 67, 84, 97	122-1223	DET 1, 6, 18	122-1282	GMC 29, 62, LEX 1, 3, 4, 5, 8, 9, 11, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 25, 26, SCI 1, 3, 4, 5, TOY 23, 25, 26, 27, 30, 37, 43, 44, 53, 54, 55, 56, 60, 61, 69, 72, 74, 75, 76, 77, 80, 83, 84, 85, 86
122-1155	GMC 3, 5, GMT 5, SUZ 1, 4, 7, 8, 10, 14	122-1224	DET 3	122-1285	FOC 12, 15, 33, KIA 5, 6, 8, 9, 12, MAZ 7, 9, 11, 14, 15, 18, 19, 32, 42, 48, TOY 51, 62, 73
122-1158	NIS 15	122-1225	MIN 2, 3, 4, 5, 6, 8	122-1287	GMC 214, GMT 135
122-1159	INF 13, 14, NII 19, NIS 40	122-1226	FOC 60, FOT 14, 21, 39, 48, MAZ 35, 41	122-1288	GMC 132, 147, 148
122-1162	GMT 11, KIA 1, 4, NIS 16, 18, 21, 22, 25, 32, 33	122-1229	FOC 38, 44, 45, FOT 26, MAZ 43, 49	122-1299	CAT 24, 43, 49
122-1163	TOY 46, 67	122-1230	GMC 42, 43	122-1300	IHC 51, IHN 59, 71, 81
122-1165	LEX 7, TOY 68, 73	122-1232	CHR 101, 115	122-1301	IHC 41, 42, 50, IHN 39, 40, 73, 74, 75, 76
122-1177	CAT 59, 60, 71, 72, 73, 74, IHC 48, 49, 50, IHN 60, 62, 73, 74, 75, 76	122-1233	GMC 118, 120, 122, 123, 124, 125, 126, 140, 155, 156, 157, 163, 164, 168, 173, GMT 50, 52, 76, 77, 78, 94, 96, 97	122-1302	CAT 106, 107, 115, 116, 121, 122, 130
122-1180	SAB 6, 7, 8, SUB 10, 16, 17, 19, 20, 21, 22, 28	122-1234	GMT 62, 76, 77, 95, 96, 97, 123, MER 9, 10, OMC 7	122-1314	GMC 93, 102, GMT 37
122-1181	SAB 6, 7, 8, SUB 10, 16, 17, 19, 20, 21, 22, 28	122-1236	GMC 55, GMT 14, ISU 13	122-1315	ISI 2, 5, 6, ISU 29, 36
122-1187	SUB 1, 2, 7, 8, 9, 26	122-1237	FOT 89, 102	122-1320	IHC 50, 51, 52, IHN 59, 70, 71, 73, 76, 80, 81
122-1189	DET 1, 6, 18	122-1238	FOC 67, 77, 78, 86, 87, 88, FOT 46, 62, 63, 73, 74, GMC 78, 95, 108, 109, 118, 119, 127, 133, 139, 140, 141, 144, 150, 155, 156, 157, 163, 164, 168, 173, 178, 206, GMT 23, 35, 42, 50, 51, 54, 59, 61, 62, 63, 64, 67, 68, 70, 71, 76, 77, 78, 94, 95, 96, 97, 123, MER 1, 2, 4, 5, 6, 7, 8, 9, 10, OMC 1, 2, 3, 4, 5, 6, 7, 8	122-1322	MAC 4, 6, 7, 8, 9
122-1196	FOT 59, 60, 75	122-1239	CUM 51	122-1323	GMC 174, 175, GMT 72, 86, 104
122-1198	FOC 27, FOI 23, GMC 58, 59, 61, 101, ISU 22	122-1241	CAS 40, CUM 36, 37	122-1324	GMC 55, GMT 14, ISU 13
122-1199	FOC 28, 29, 37, 78, FOT 8, 14, 63, MAZ 35	122-1242	DET 11, 12, 13, 15	122-1325	FOT 100, 101
122-1200	FOC 28, 29, 37, 78, FOT 8, 14, 63, MAZ 35	122-1243	CAS 39, CUM 22, 28, 29	122-1326	FOT 100, 101
122-1201	ACU 1, 3, 4, 5, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 23, 24, 25, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 45, 46, 47, 48, GMT 39, HON 1, 6, 7, 8, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 46, 47, 48, 49, 50, 51, 52, 53, 54, 68, 69, 70, 71, 72, 73, 74, 76, 77, 78 (cont'd)	122-1246	FOC 12, 15, 33, GMT 10, 22, KIA 8, 9, LEX 10, MAZ 7, 11, 14, 15, 18, 19, 32, 42, 48, SUZ 9, 10, 12, 13, 15, 17, TOY 36, 38, 49, 50, 70	122-1327	CHR 51
		122-1249	FOT 63	122-1328	CAT 45, 46, 47, 67, 68, 69, 78, 79, 80, 82, 86, 87, 89, 96, 97, 99
		122-1250	AUD 41, 43, 47, 81, 102, VKW 14, 24, 25, 26, 27, 28, 30, 36, 37, 38, 40, 56, 57, 69	122-1329	DAE 2, 3, GMC 49, 86, 97, GMT 27, 31, ISU 12, SAB 9, 11, 12, SUZ 11
		122-1251	CHR 19, 20, 40, 41, 42, MIC 7, 8, MIT 12	122-1330	FOT 93, 97, 98, GMT 112, 130, 135, IHN 61, 63, 64
		122-1252	CHR 15, 34, 35, 45, 59, MIT 11, 21, 25, 28, 34, 35, 37, 39	122-1331	GMC 42
				122-1332	GMT 119, 120, 121
				122-1333	FOT 99, IHN 64, 65

Application Buyers Guide

SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.
STEM SEAL (Cont'd)		STEM SEAL (Cont'd)		STEM SEAL (Cont'd)	
122-1334	CHR 109, CUM 11, 12	122-1374	CUM 36, 37, 38, 42, 43, 56	122-1437	CUM 50
122-1335	CHR 109, CUM 11, 12	122-1375	KUB 1, 2, 4, 5, 16, 17	122-1438	GMT 127
122-1336	GMC 94, 102, 105, GMT 37, 40, KIA 25	122-1376	FOC 61, FOT 41, FTR 1, 2, 3	122-1439	CUM 30, 31
122-1337	GMC 103, 104, 128, 129, 130, 131, 160, 174, 175, 180, 181, 182, 187, 188, 189, 190, 191, 192, 193, 194, 195, 216, GMT 41, 55, 56, 65, 66, 72, 73, 74, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 102, 103, 104, 105, 106, 107, 108, 109, 110, 113, 114, 115, 116, 117, ISU 33, 34, 37, 38, 39, SAB 14, 15	122-1377	NII 5, 14	122-1440	CHR 16, 21, 36, 37, 39, HYU 11, 13, 16, 17, 18, 19, 22, 23, 24, KIA 13, 14, 15, 16, 17, 18, 20, 21, 22, MIT 18, 19, 20, 27
122-1338	GMC 103, 104, 128, 129, 130, 131, 160, 174, 175, 180, 181, 182, 187, 188, 189, 190, 191, 192, 193, 194, 195, 216, GMT 41, 55, 56, 65, 66, 72, 73, 74, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 102, 103, 104, 105, 106, 107, 108, 109, 110, 113, 114, 115, 116, 117, ISU 33, 34, 37, 38, 39, SAB 14, 15	122-1378	FOT 51, 80, 86, IHN 29, 45, 47	122-1441	FOT 90
122-1340	GMC 125, 126	122-1381	CAT 6	122-1442	CHR 65, 71, 72
122-1341	GMC 125, 126	122-1382	MAI 3, 4	122-1443	JON 71
122-1342	FOC 16, 17, FOT 6, MAZ 20	122-1387	NII 3, 16	122-1444	HYU 30, 31, 32, 34, 35, 36, 37, KIA 26, 27, 28, 29, 31
122-1344	CHR 76, 94, MIT 38, 40	122-1389	TOI 5	122-1445	FOT 82
122-1345	GMT 139, MER 13	122-1391	CUM 28, 29	122-1447	FOC 79, 80, FOT 64
122-1346	GMT 127	122-1392	JON 70, 71, 76	122-1448	CUM 44, 49, 54, 56
122-1347	GMC 30, TOY 24	122-1393	CAT 78, 82, 86, 96	122-1449	FOC 70, 71, FOT 52, 67, 68, 91
122-1348	FOC 65, FOT 45, LRV 3, MAZ 54	122-1394	GMT 30, 49, 60, ISU 21, 28, 30, SAB 13	122-1451	VVD 2
122-1349	GMC 106, 132, 145, 147, 148, 149, GMT 25, 38, 60, 69, ISU 19, 27, 30	122-1395	CAT 20, 21, 38, MFT 21, 26, 34, 39, PER 26, 30, 44, 47	122-1452	VOL 1, 2, 20, 21, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 40, 41, 42
122-1350	CHR 67, 78	122-1397	CAT 20, 21, 38, MFT 21, 26, 34, 39, PER 26, 30, 44, 47	122-1453	MIC 1, 2, 3, 4, 5, 6, 7, 8
122-1351	FOC 60, FOT 39, 40, 48	122-1398	ALL 19, 20, CAT 18, 19, 39, 40, MFT 15, 16, 18, 19, 20, 22, 23, 24, 25, 29, 30, 31, 32, 33, 35, 36, 37, 38, PER 19, 20, 21, 22, 23, 25, 27, 28, 29, 37, 38, 39, 40, 41, 42, 43, 45, 46, 48, 49	122-1454	MAZ 34
122-1354	CHR 106, 118	122-1399	HAR 9	122-1455	MAZ 34
122-1355	GMC 50, 51, 52, 56, 57, 63, 64, 65, 66, 67, 68, GMT 15, 16, 17, 18, 19, SAB 5	122-1400	HAR 8	122-1456	CHR 60, 69, MBT 2, 3, MBZ 3
122-1356	FOC 72, FOT 54, 70, 92	122-1402	HIN 1, 5, 6, 7, 8, 9, 10, 11, 12, 14	122-1457	CAT 17, 27, 44, 48
122-1357	FOC 48, FOT 27, MAZ 50	122-1407	ISI 9, ISU 42	122-1458	GMC 26, 31, 32, 33
122-1358	FOC 48, FOT 27, MAZ 50	122-1409	DAE 1, GMC 24	122-1460	IHN 72, 86
122-1360	CHR 52	122-1410	FOC 20, 21, 22, 30, 31, 34, 35, 36, FOT 7, 9, 10, 15, 16, 17, 19, 20, LRV 1, MAZ 5, 26, 27, 33, 36, 37, 38	122-1461	DET 14, 16, 17
122-1361	MAC 13	122-1411	FOC 20, 21, 22, 30, 31, 34, 35, 36, FOT 7, 9, 10, 15, 16, 17, 19, 20, LRV 1, MAZ 5, 26, 27, 33, 36, 37, 38	122-1462	DET 5, 7, 8, 9, MBD 1, 2, 4, 5
122-1362	CUM 34, 35, 48, 52, 53, 61, KOM 27	122-1412	MFT 1, PER 2, 3	122-1463	CUM 44, 49, 54, 55, 56
122-1363	AUD 8, 9, 12, 13, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 28, 30, 44, 46, 48, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 75, 76, 77, 78, 79, 80, 82, 83, 84, 85, 86, 87, 88, 89, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116 (cont'd)	122-1413	ISI 4, ISU 32	122-1464	CAT 1, 2, 3, 4, 5, 7, 8, 9, 10, 11, NHL 1, 2, 3, PER 1, 4, 5, 6, SHB 1, 2, 3
122-1364	CAT 50, 51	122-1414	CAT 107, 116, 122	122-1465	CAT 1, 2, 3, 4, 5, 7, 8, 9, 10, 11, NHL 1, 2, 3, PER 1, 4, 5, 6, SHB 1, 2, 3
122-1365	CAS 19, 29, CUM 2, 10, KOM 11, 17	122-1415	JON 77, 78	122-1466	IHN 88
122-1366	HYU 4, 9, 10, 13, 14, 25, 26, 27, KIA 7, 10, 23, 24	122-1418	GMC 54, 70, 79, 80, 81, 87, 88, 110, 112, 113, 114, 115, GMT 12, 24, 26, 32, 33, 43, 44, 45, 46, SAB 10, SUZ 18, 19	122-1467	CHR 22, 38, 39, FIA 4
122-1369	ISI 3, 7, ISU 31, 40	122-1419	FOC 73, 74, 84, 90, FOT 53, 69	122-1468	GMC 6, 7, 11, GMT 1, 2
122-1370	CHR 109, 127, CUM 4, 11, 12, 16	122-1420	JON 79	122-1469	MAC 3, 14, VVD 1, 3
122-1371	CHR 109, 127, CUM 4, 11, 12, 16	122-1421	JON 74	122-1470	JON 15, 28
122-1372	KUB 8, 9, 10, 11, 13, 14, 15	122-1423	CHR 118	122-1471	CUM 50
122-1373	CAT 50, 51, 57, 71, 74, 79, 80, 81, 83, 84, 85, 87, 88, 90, 95, 97, 98, 103	122-1424	CAT 57, 58	122-1472	CUM 1, KOM 4, 5, 6, 7, 8, 9, 14, 15, 16
		122-1425	CHR 106, 119, 123, 124	122-1473	KOM 19, 20, 21
		122-1426	IHC 42, 51, 52, IHN 40, 59, 70, 71, 80, 81	122-1474	KOM 22, 23, 24, 25
		122-1427	FOC 54, 55, 58, FOT 33, 34, 35, 37, MAZ 51, 52	122-1475	CAT 13, PER 12, 13, 14
		122-1428	SUB 27	122-1476	CAT 23, 41
		122-1429	SUB 11, 12, 13, 14, 15, 18, 23, 24, 25, 27, 29	122-1477	CHR 127, CUM 4, 11, 12, 16
		122-1430	SUB 11, 12, 13, 14, 15, 18, 23, 24, 25, 27, 29	122-1478	YAN 21, 22
		122-1431	NII 16	122-1479	YAN 14, 16
		122-1432	JON 43, 66	122-1480	JON 11, YAN 8
		122-1433	NIS 17	122-1481	JON 11, YAN 8
		122-1434	CAT 14, 25, 26, PER 31, 32, 33, 34	122-1482	KOM 12, 13, YAN 17, 18, 19, 20
		122-1435	CAT 14, 25, 26, PER 31, 32, 33, 34	122-1483	JON 1, 2, 3, 4, 8, 9, 10, 12, 13, KOM 1, 2, THE 2, 3, YAN 1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12
		122-1436	CAT 108, 117, 123, 126, 128, 129	122-1484	JON 1, 2, 3, 4, 8, 9, 10, 12, 13, KOM 1, 2, 3, 10, THE 2, 3, YAN 1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 15
				122-1485	JON 43, 66
				122-1487	CAT 58
				122-1488	JON 44, 67
				122-1489	JON 44, 67
				122-1490	CAT 107, 116, 122

Application Buyers Guide

SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.
STEM SEAL (Cont'd)		VALVE (Cont'd)		VALVE (Cont'd)	
122-1491	MBD 6	00311	BUD 1, 10, 17, 26	00601	IHC 9, 12, 13, 16, 18, 24, 30, 32, 33
122-1492	MBD 7	00312	IHC 2, 3	00602	CAS 41, CUM 52, KOM 27
122-1493	FOC 40, 46, FOT 22	00313	IHC 2, 3	00602S	CAS 41, CUM 52, 61, KOM 27
122-1494	FOT 29	00318	CAT 34, 35, 53, 54	00603	CAS 41, CUM 52, KOM 27
122-1495	GMC 54, 79, 80, GMT 12	00319	CAT 34, 35, 53, 54	00608	FOI 2, 4, FTR 11
122-1498	CAT 22, 42	00326S	CUM 40, 41, 45, 46, 47, 60, KOM 18, 26	00609	FOI 2, 4, FTR 11
122-1499	JON 79	00327	DET 2	00626	ALL 14, 15, 16
122-1500	IVE 1	00343	CON 21, 22, 28, MFT 3, 4, 5	00627	FOC 41, 53, FOT 23
122-1501	FOC 1, 3, 5, FOT 1, 2, 3	00348	FOI 1, 3, 5, FTR 4, 5, 6, 12, 13, 14	00637	FOC 89, 92, 95, 96, FOT 76, 78, 84
122-1502	FOC 4	00349	CHR 70, 77	00658	JON 30, 35, 48, 52, 53
122-1503	FOC 4	00373	FOC 57, 69, 76, 82, FOI 8, FOT 36, 47, 50	00659	JON 30, 35, 48, 52, 53
122-1504	VVD 4	00375	FOC 57, 62, 69, 76, 82, FOI 8, 11, 13, FOT 36, 42, 47, 50, 56	00678	CAS 23, 33, 34
122-1505	CAT 47, 68	00376	FOC 62, 76, 82, FOI 1, 3, 5, 11, 13, FOT 42, 56, FTR 4, 5, 6, 12, 13, 14	00682	CAS 8, 9
122-1506	PCR 1, 2	00399	GMC 78, 95, 108, 119, 133, 139, 141, 150, 157, 163, GMT 23, 35, 51, 67, 70, 71, 78, 94	00683	CAS 8, 9
122-1507	HIN 2, 3, 4, 13, 15, 16	00400	GMC 78, 95, 108, 109, 119, 127, 133, 139, 141, 150, 155, 157, 163, 164, 168, 206, GMT 23, 35, 42, 51, 54, 61, 67, 70, 78, 94	00690	CAS 13, 15
122-1508	ISI 4, ISU 32	00411	DET 2	00691	CAS 13, 15
122-1509	GMC 89, 111, 116, 136, GMT 47, 48	00427S	IHC 25, 26, 29	00696	GMC 163, 164, 168, 206, GMT 123
122-1510	GMT 128, 129	00428	IHC 25, 26, 29	00702	CUM 34, 35, 48, 53
322-1002	CON 15, 21, 22, 28, MFT 2, 3, 4, 5, 6, 7, 13, PER 7, 8, 17, 35	00485	IHC 1	00703	CUM 34, 35, 48, 53
322-1003	MER 6, 7, 10, 11, OMC 7	00486	CON 21, 22, 28, MFT 3, 4, 5	00734	WAU 5, 6
322-1004	MER 7, 10, OMC 7	00489	CON 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 14, 15, MFT 2	00742	FOC 68, 75, FOT 55
VALVE		00494	FOC 69, 76, 82, FOI 11, 13, FOT 50, 56	00746S	CHR 73
00100	FOC 51, 52	00503	IHC 3, 4, 5, 7	00751S	CAT 93, 94, 104, 105, 113, 114, 119, 120
00121	CHR 28	00504	IHC 3, 4, 5, 7	00752S	CAT 93, 94, 104, 105, 113, 114, 119, 120
00122	CHR 28	00514	CHI 32, 33, 34, 35, 36, CHM 13, CHR 92, 98, 99, 102	00753S	CAT 31, 33, 36, 37, 55, 56
00154	ALL 1, 2, 3, 4, 5, 6, 7, 8, 11	00518	CHI 32, 33, CHM 13, CHR 92, 96, 98, 99, 102	00754	CAT 32, 52
00155	ALL 1, 2, 3, 4, 5, 6, 7, 8, 11	00520	CHI 40, 49, CHR 116, 120, 128, 130	00755	CAT 31, 32, 33, 36, 37, 52, 55, 56
00159	MIN 2, 3, 4, 5, 6, 8	00530SN	FOI 21, 24, 25, FOT 88, 103, 104, 105	00758	DET 1
00160	MIN 2, 3, 4, 5, 6, 8	00531S	FOI 21, 24, 25, FOT 88, 103, 104, 105	00759	DET 3
00161	IHC 2	00548	CHI 40, 45, 47, 48, 49, 52, CHM 5, 8, 9, 10, 15, 17, 21, 22, 23, 24, CHR 116, 120, 125, 128, 130, 131	00793	WAU 1, 2
00162	IHC 2	00549	CHR 66, 79, 86, 88, 93, 103, IHC 19	00810	CAS 1, 16, CON 17, 18, 19, 20, 24, 25, 26, 27, 29, 30, 31, 32, 36, 37, 44, 45, 46, 47, 50, 51, 52
00168	ALL 14, 15, 16	00550	CHR 66, 79, 86, 88, 93, 103, IHC 19	00819S	WAU 5, 6
00169	ALL 14, 15, 16	00554	WAU 7	00852S	CAT 75, 92, 100, 101, 111, 112
00170	CAS 1, 16, CON 17, 18, 19, 20, 24, 25, 26, 27, 29, 30, 31, 32, 44, 45, 46, 47	00555	WAU 7	00867	CON 38, 39
00185	CHR 70, 77	00559S	IHC 35, 39, IHN 1, 32, 33, 37, 38	00873	MFT 6, 7, 8, 9, 10, 13, 14, PER 7, 8, 9, 10, 11, 17, 18, 35
00193	IHC 6, 10	00560	IHC 35, 39, IHN 1, 32, 33, 37, 38	00874	MFT 6, 7, 13, PER 7, 8, 17, 35
00196	CAS 1, 16, CON 17, 18, 19, 20, 24, 25, 26, 27, 29, 30, 31, 32, 36, 37, 44, 45, 46, 47, 50, 51, 52	00564	FOC 32, 41, 53, FOT 18, 23	00882A	ALL 19, 20, MFT 15, 16, 17, 18, 19, 24, 25, 28, 29, 31, 37, PER 19, 20, 21, 22, 24, 28, 29, 37, 38, 39, 40, 43, 48
00203	IHC 23, 26	00567	CHI 2, 3, 10, 11, CHM 1, 2, CHR 53, 64, 73	00883	MFT 15, 16, 18, 24, 37, 38, PER 19, 20, 21, 28, 37, 38, 48, 49
00204	IHC 23, 26	00574S	CAT 75, 92, 100, 101, 111, 112	00912	WAU 1, 2
00205	IHC 6, 10	00585	FOC 85, 89, 91, 94	00917SN	FOI 15, 19, 20, 22, FOT 66, 77, 79, 83, 85
00210	CAS 16, CHR 75, CON 45, 46, 47, 50, 51, 52, MAC 1, 2	00592	IHC 11, 15, 20, 31	00918	FOI 15, 19, 20
00212	FOC 61, FOT 41, FTR 1, 2, 3	00593	IHC 11, 15, 20, 31	00919	GMC 154, 164, 168, 206, MER 2, OMC 2
00214	FTR 1, 2, 3	00598S	WIS 3, 4, 5	00921	IHC 20, 31, 34
00220	FTR 1, 2, 3	00600	IHC 18, 24, 30	00922	IHC 20, 31, 34
00230	IHC 1			00923	IHC 43, 44, 46, 47, IHN 57, 58
00234	CON 15, MFT 2			00924	IHC 43, 44, 46, 47, IHN 57, 58
00249	WIS 1, 2, 3, 4, 5			00938	CHI 37, 38, CHM 12, CHR 82, 83, 91, 98, 99, 101
00257	CHI 25, 26, CHM 7, CHR 80, 81, 87, 89			00947	FOC 75, FOT 55
00268	CAS 2, 4, 5, 10, 11			00949	FOI 16, 17, 22, FOT 65
00269	CAS 2, 4, 5, 10, 11			00958	GMC 196, 211
00270	FTR 1, 2, 3			00963	FOC 63, FOI 9, 14, FOT 43, 58
00298	CHI 19, 20, 23, 24, 25, 26, 27, 28, CHM 7, CHR 80, 81, 87, 89				
00308	GMC 127, GMT 54, 61				
00310	BUD 1, 10, 17, 26				

Application Buyers Guide

SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.
VALVE (Cont'd)		VALVE (Cont'd)		VALVE (Cont'd)	
00969	GMC 165, 171	01171	FOC 86	01273	CHR 98, 99, 104, 112, 113, 114, 115
00970	GMC 165, 171	01172	FOC 86	01285	FOC 39, 42, FOT 24
00974	GMC 171, 202, 205, 212, 222	01177S	FOC 63, FOI 9, 14, FOT 43, 57, 58	01288	JON 42, 60
00975	CHR 74, GMC 117	01179	CHR 110, 121, 126	01289	JON 42, 60
00976	CHR 74, GMC 117, 151, 166	01180	CHR 98, 99, 113, 114	01292	GMC 213, 225, 226
00982S	MIN 7	01186	CHM 3, 11, 18, 19, CHR 99, 100, 111, 112	01293	GMC 213, 225, 226
00983	MIN 7	01188	GMC 170	01294S	GMI 2, GMT 62, 76, 77, 96, 97, 123, MER 9, 10, OMC 7
00988	GMC 154, 164, 168	01189	GMC 203, 219, 223	01296	GMC 169, 204, 224
00989	ALL 10, 18, 23, BUD 8, 9, 23, 24	01192	GMC 78, 95, 108, 109, 118, 119, 127, 133, 139, 140, 141, 150, 155, 156, 157, 168, 173, 206, GMT 23, 35, 42, 50, 51, 54, 59, 61, 62, 63, 64, 67, 70, 76, 77, 78, 94, 96, OMC 7	01300	FOC 39, 42, FOT 24
00996S	GMT 111, 112, 130	01193	GMC 78, 95, 108, 119, 133, 139, 141, 144, 150, 155, 157, GMI 2, GMT 23, 35, 51, 59, 67, 68, 70, 71, 76, 78, 94, 96, 97, 123, MER 1, 4, 5, 6, 8, 9, 10, OMC 1, 2, 3, 4, 6, 7	01305S	JON 14, 20, 27, 31
00997	GMT 111, 130, 131, 134	01194	GMT 59, 71, 95	01306	JON 14, 20, 27, 31
01000	FOC 75, 77, FOT 55, 62	01195	GMC 140, 168, 173, 178, GMT 62, 63, 64, 78, 95, 96, 97, MER 2, 10, OMC 2, 6, 7	01307	CHR 104, 113, 114
01001	FOC 75, 77, FOT 55, 62	01199	FOC 18	01309	CHR 112, 114
01002	GMC 202, 205, 212, 222	01203	CAT 45, 46, 65, 67	01310	GMC 224
01018	DET 3	01204	CAT 45, 46, 65, 67	01312S	CHM 3, 11, 18, 19, CHR 99, 100, 111
01036S	MAC 6, 7, 9	01205S	CAT 45, 46, 65, 67, 69	01314S	CAT 45, 46, 47, 65, 67, 68, 69
01037	MAC 6, 7, 9	01206S	GMC 78, 95, 108, 109, 119, 127, 133, 139, 141, 150, 155, 157, 163, 168, 206, GMT 23, 35, 42, 51, 54, 59, 61, 67, 70, 71, 78, 94, 96, 97, 123, MER 1, 4, 5, 6, 8, 9, 10, OMC 1, 2, 3, 4, 6, 7	01320	GMC 170
01041	ALL 12, 21, 22	01210	GMC 222	01321	GMC 223
01042	ALL 12, 21, 22	01212	GMC 171	01322	GMC 137
01047	CHR 105, 110, 121	01215	GMC 224	01323	GMC 137
01048	CHR 105, 110, 121, 126	01216	GMC 224	01324	GMC 171, 222
01055	CON 38, 39	01217S	FOI 17, 22	01325	CHR 79, 88, 97, IHC 19, IHN 13, 21
01057S	FOI 15, 19, 20, FOT 66, 77, 79, 83, 85	01218S	FOI 17, 22	01326	CHR 110, 126
01072	GMC 196, 211	01219S	GMT 111, 112, 130, 135	01327	FOC 88, FOT 73, MER 7, OMC 5, 8
01073	ALL 10, 18, BUD 8, 9, 23, 24	01220S	FOC 88, MER 7, 11, OMC 8	01328	FOC 77, 78, 88, FOT 62, 63, 73, 74, MER 7, OMC 5, 8
01075S	IHC 9, 12, 13, 16, 18, 24, 30, 32, 33	01221S	FOC 88, MER 11, OMC 8	01329	CHI 37, 38, CHM 12, CHR 91, 98, 99
01082	GMC 170	01223S	GMT 111, 112, 130, 131, 134	01332	FOI 16, FOT 65
01083	GMC 225, 226	01224S	FOC 85, 89, 91, 92, 94, 95, 96, FOT 76, 78, 84	01336S	JON 42, 60, 68
01084	GMC 225, 226	01225S	GMC 169, 204	01346S	FOI 21, 24, 25, FOT 88, 103, 104, 105
01087	GMT 111, 112, 130	01227S	GMC 224	01350S	CAT 61, 64, 66, 70
01093	GMC 169, 204, 224	01228S	CHR 110, 126, IHN 49	01351S	CAT 61, 64, 66, 70
01097	GMC 169, 204, 217	01229S	CHR 79, 88, 97, IHC 19, IHN 13, 21	01354	GMC 159, 171, 209
01098	GMC 169, 204, 217	01230S	GMT 133, 135, MER 12, 14	01357	FOC 53, 66, FOI 6, 7
01102	FOC 97, 98	01231S	GMC 171	01358	FOC 63, FOI 9, 14, FOT 43, 58
01103	FOC 97, 98	01232S	GMC 224	01361	GMC 153
01105	GMC 203, 219, 223	01233S	FOC 97, 98, FOI 23, FOT 100, MER 3	01362	GMC 153
01106	GMC 199, 201, 208, 215, 220, GMT 122, 126	01234S	FOC 97, 98, FOI 23, FOT 100, MER 3	01365	CON 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 14
01107	GMC 199, 201, 208, 215, 220, GMT 122, 126, 133, 135	01235S	FOC 86, 87, 93, FOT 72, 87	01366	DET 18
01120	FOC 63, FOI 9, 14, FOT 43, 57, 58	01236S	FOC 86, 87, 93, FOT 72, 87	01367	FOC 87, 93, FOT 72, 87
01131	GMC 200, 214, 221	01237S	FOC 86, 87, 93, FOT 72, 87	01368S	FOI 23
01133S	IHC 45, IHN 2, 48	01238S	CHR 110, 126, IHN 49	01375	JON 42, 60, 68
01135	FOC 67, 77, 78, 88, FOT 46, 62, 63, 73, 74, OMC 5	01239S	CHR 79, 88, 97, IHC 19, IHN 13, 21	01376S	JON 40, 57
01135S	FOC 67, FOT 46, 62, 63, 73, OMC 5	01240S	GMT 133, 135, MER 12, 14	01377	JON 61, 69
01137	FOC 77, FOT 62, OMC 5	01241S	GMC 171	01378	CAT 29, 62
01145S	CAT 76, 77, 91, 102, 110	01242S	CHI 2, 3, 10, 11, CHM 1, 2, CHR 53, 64, 73	01379	CAT 29, 30, 62, 63
01146S	CAT 76, 77, 91, 102, 110	01243S	FOC 41, 53, 66, FOI 6, 7, FOT 23, 30, 31	01380	FOC 87, 93, FOT 72, 87
01147	CON 23, 33, 53, 56	01244S	FOC 41, 53, 66, FOI 6, 7, FOT 23, 30, 31	01381	FOT 81
01148	CON 23, 33, 53, 56	01245S	FOC 97, 98, FOI 23, FOT 100, MER 3	01382	FOT 81
01152	IHC 45, IHN 2, 48	01246S	FOC 97, 98, FOI 23, FOT 100, MER 3	01383SN	FOT 81
01156	CHI 52, CHR 112, 120, 125, 130, 131	01247S	FOC 97, 98, FOI 23, FOT 100, MER 3	01384S	FOT 81
01160	GMC 169, 204, 224	01248S	FOC 97, 98, FOI 23, FOT 100, MER 3	01385SN	FOT 94
01161	GMC 169, 204, 224	01249S	FOC 97, 98, FOI 23, FOT 100, MER 3	01386S	FOT 94
01164	GMC 200, 214, 221, GMT 139, MER 12, 13, 14	01250S	FOC 97, 98, FOI 23, FOT 100, MER 3	01387	GMC 84, 85, 96, 123, 124, 135, GMT 52
01169	FOC 86, 87, 93, FOT 72, 87	01251S	FOC 97, 98, FOI 23, FOT 100, MER 3		
01170	FOC 86, 87, 93, FOT 72, 87	01252S	FOC 97, 98, FOI 23, FOT 100, MER 3		

Application Buyers Guide

SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.
	VALVE (Cont'd)		VALVE (Cont'd)		VALVE (Cont'd)
01388	GMC 84, 85, 96, 120, 122, 123, 124, 125, 135, GMT 52	01504S	FOI 14, FOT 60	01597	FOC 25, 27, 28, 29, 37, FOT 12, 13, 14, MAZ 35
01389	GMC 84, 85, 96, 120, 122, 123, 124, 125, 135	01505	FOT 58, 59	01598	FOC 25, 26, 27, 28, 29, 37, FOT 12, 13, 14, MAZ 35
01393	GMC 118, 155, 156, GMT 50, 76, 77, MER 9	01506S	IHN 82, 87	01600	MER 12, 14
01394	CHR 54, GMC 82, 83, GMT 28	01507	IHN 82, 87	01630S	CAT 45, 46, 47, 65, 67, 68
01395	CHR 54, GMC 82, 83, GMT 28	01508	IHN 82, 87	01631S	CAT 45, 46, 47, 65, 67, 68
01397	FOC 26	01511	CAS 27, 37	01632S	CAT 78, 79, 82, 86, 89, 96, 99
01399	CHR 98, 99, 101	01512	CAS 27, 37, 38	01646S	GMT 23, 71, 76, 77, 95, 96, 97, 123, MER 1, 9, 10, OMC 1, 2, 7
01402	JON 40, 57	01519	IHC 37, 41, IHN 39	01648	IHN 85
01403	JON 61, 69	01520	IHC 37, 41, 42, IHN 39, 40	01649	IHN 85
01404	JON 61	01523S	ALL 13, 24, 25, 26	01650S	CAS 38
01406	JON 73	01524	ALL 13, 24, 25, 26	01653	FTR 8, 9, 10, 15, 16, 17, 18, 19, 22, 23, 25, 26, 29
01412	JON 75	01525S	ALL 30, 31	01654	FTR 8, 9, 10, 15, 16, 17, 18, 19, 22, 23, 25, 26, 27, 29
01415S	MAC 4, 7, 8	01526	ALL 30, 31	01656S	CUM 45, 46, 47
01417	CHR 99, 114, 115	01527	FOT 8	01658S	CUM 36, 37
01419	CHR 82, 83, 99, 101	01528	FOT 8	01659S	CUM 51
01420S	CUM 8, 9, 13, 14, 24, 25, 26, 27, 32, 33	01531	CAS 40, CUM 36, 37	01660	CUM 51
01422S	IHC 48, 49, 50, IHN 60, 62, 73, 74, 75, 76	01532	CAS 40, CUM 36, 37	01661S	CUM 51
01423	IHC 48, 49, 50, IHN 60, 62, 73, 74, 75, 76	01533S	CUM 57	01662S	CUM 36, 37, 38
01429S	DET 6	01534	CUM 57	01662SNR	CUM 36, 37, 38
01431S	IHN 55, 66	01535	FOC 48, FOT 27, MAZ 50	01663	CUM 36, 37, 38
01432	IHN 55, 66	01536	FOC 48, FOT 27, MAZ 50	01664	CAS 17, 18, 19, 28, 29, CHR 108, CUM 2, 3, 10, GMT 57, KOM 11, 17
01441	CHR 66, 79, 88, 95, 97, IHC 19, IHN 13	01537	FOC 78	01664R	CHR 108
01442	CHR 66, 79, 88, 95, 97, IHC 19, IHN 13	01538	FOC 78	01665	CAS 17, 18, 19, 28, 29, CHR 108, CUM 2, 3, 10, GMT 57, KOM 11, 17
01446	MAC 4, 7, 8	01542	FOT 93, 97, IHN 61, 63	01665R	CHR 108
01448	CHR 29, 31	01542S	FOT 93, 97, IHN 61, 63	01666	CAS 39, CUM 28, 29
01449	CHR 29, 31	01543	FOT 93, 97, 98, IHN 61, 63, 64	01667	CAS 39, CUM 28, 29
01450	GMC 158, 159	01544	FOC 14	01670	CHR 67, 78
01451	FOC 11, 13, 14	01546	FOC 14	01671	CHR 67, 78
01452	FOC 11, 13, 14	01547	FOI 23, FOT 100, 101	01673	GMC 58
01455	DET 10	01548	FOI 23, FOT 96, 101	01674	GMC 58
01456	DET 10	01548S	FOI 23, FOT 95, 101	01675	CHR 115
01457	GMC 171, 202, 205, 209, 212, 222	01550+15	GMC 76, 77, GMT 20	01693S	CON 23, 33, 53, 56
01458S	CAT 75, 92, 100, 101, 111, 112	01551	GMC 76, 77, GMT 20	01694	FOT 89, FTR 16, 25, 27, 30
01459S	CAT 75, 92, 100, 101, 111, 112	01552	CHR 29, 31, 46	01695S	FTR 8, 9, 10, 15, 16, 17, 18, 19, 22, 23, 25, 26, 27, 29, 30
01460S	CAT 93, 104, 105, 113, 119	01553	CHR 29, 31, 46	01698	FOC 70, 71, FOT 52, 67, 68
01461S	CAT 93, 94, 104, 105, 113, 114, 119, 120	01554	CHR 30, 47	01698S	FOC 70, FOT 52, 67, 91
01462S	CAT 78, 79, 80, 82, 86, 89, 96, 99	01555	CHR 30, 47	01699	FOC 70, 71, FOT 52, 67, 68, 91
01468S	CAT 78, 79, 80, 86, 96	01556	CHR 43, 85	01699S	FOC 70, FOT 52, 67, 91
01471S	JON 37, 39, 45, 56, 62, 63	01557	CHR 43, 85	01701	FOC 78, FOT 63, 75
01474S	MIN 7	01557	CHR 43, 85	01702	GMC 101
01476S	CAT 94, 114, 120	01566	DET 12, 13, 15	01703	GMC 101
01478	CHR 43	01567	DET 12, 13, 15	01704	GMC 55
01479	CHR 43	01569	GMC 45, 55	01705	GMC 55
01480	GMC 82, 83, 90, 100, GMT 29, 34, ISU 20, 22	01570	MAC 5, 12	01706	GMC 132, 147, 148
01481	GMC 82, 83, 90, 100, GMT 29, 34, ISU 20, 22	01571S	MAC 5, 12	01707	GMC 147, 148
01482S	GMT 119	01572	MAC 10, 11	01708	FOC 73, 74, FOT 53, 69
01483S	GMT 119	01573S	MAC 10, 11	01709	FOC 73, 74, FOT 53, 69
01484	GMT 119, 120, 121	01574S	IHC 42, IHN 40	01710	GMC 99, 125, 126, GMT 53
01491S	CAT 45, 46, 47, 65, 67, 68	01578S	GMT 133, 135, MER 12, 14	01711	GMC 99, 125, 126, GMT 53
01497S	CAT 30, 63	01579S	CAT 24, 43, 49	01712	CHR 68
01498S	CAT 106, 115, 121	01580	CAT 24, 43	01713	CHR 63, 68, 84
01500	DET 6	01581S	CAT 59, 60, 72, 73	01714	CHR 83, 101, 115
01504	FOT 58, 59	01582	CAT 59, 60, 72, 73	01715	CHR 83, 101, 115
		01582S	CAT 59, 60, 72, 73	01716	JON 76
		01584S	CAT 106, 108, 109, 115, 117, 118, 121, 123, 124, 126, 127, 128, 129		
		01586	JON 70, 71		
		01587	JON 70, 71		
		01588	JON 25, 26, 38, 46, 47, 54, 64, 65		
		01589	JON 25, 26, 38, 46, 47, 54, 64, 65		
		01590S	JON 75		
		01591	GMC 76, 77, GMT 20, 21		
		01592	GMC 76, 77, GMT 20, 21		

Application Buyers Guide

SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.
	VALVE (Cont'd)		VALVE (Cont'd)		VALVE (Cont'd)
01717S	JON 76	01814	CHR 44, GMC 71, 72, 74, 75, 76, 77, GMT 20	01944S	IHC 51, IHN 59, 71, 81
01720S	CUM 36, 37	01826	CAS 38	01945	IHC 52, IHN 70, 80
01721S	CUM 52	01830S	CAT 80, 87, 97	01946S	IHC 52, IHN 70, 80
01721S-OEM	CUM 50, 52	01831S	CAT 80, 87, 97	01949	GMC 42
01723	FOI 23, FOT 101	01832SN	FOT 95, 96	01950	GMC 42
01726	GMC 58, 59, 61	01847S	CUM 51	01991	CHR 20
01727	GMC 58, 59, 61	01857S	CAT 78, 79, 82, 86, 89, 96, 99	01992	CHR 20
01728	FOC 38, MAZ 43	01858	GMC 125, 126	01993	CHR 67, 78
01729	FOC 38, MAZ 43	01862	CAS 19, 29, CUM 2, 10, KOM 17	01994	CHR 67, 78
01730	CHR 19, 40, MIT 12	01875	FOI 14	01997	GMC 56, 57, 64, 65, 66, GMT 15, 17, 18
01731	CHR 19, 40, MIT 12	01877	FOC 78, FOT 63, 75	01998	GMT 25, 38, 60, ISU 19, 27, 30
01734	CUM 57	01880	CAT 12	01999	GMT 25, 38, 60, ISU 19, 27, 30
01735	GMC 125, 126	01881	CAT 12	02000	GMC 160, 174, 175, 182, GMT 73, 79, 81, 82, 83, 88, 89, 104, 105, 106, 108, ISU 34, 37, 38, SAB 14, 15
01736	GMC 55, GMT 14, ISU 13	01882	CAT 12	02000R-200	GMC 174, 175, GMT 106
01737	GMC 55, GMT 14, ISU 13	01887	CAT 18, 19, 39, 40, MFT 18, 22, 23, 35, 36, PER 21, 25, 27, 37, 38, 45, 46	02000R-202	GMC 174, 175, GMT 106
01738S	CUM 57, 58	01889	JON 77, 78	02000R-205	GMC 174, 175, GMT 106
01739	GMC 132	01899	IHC 51, IHN 59, 71, 81	02006	FOC 20, 22, 30, 34, 35, 36, FOT 7, 10, 15, 16, 19, MAZ 26, 27, 33, 36, 37, 38
01741	CHR 20	01900S	IHC 51, IHN 59, 71, 81	02007	FOC 20, 22, 30, 34, 35, 36, FOT 7, 15, 16, 19, 20, MAZ 26, 27, 33, 36, 37, 38
01742	CHR 20	01901	CHR 63, 68, 84	02008	CHR 40, 41
01743	FOT 14, 21, MAZ 35, 41	01902	GMC 55, GMT 14, ISU 13	02009	CHR 40, 41
01744	FOT 14, 21, MAZ 35, 41	01903	GMC 55, GMT 14, ISU 13	02010	GMC 56, 57, 63, 64, 65, 66, 67, 68, GMT 15, 16, 17, 18, 19
01745	FOC 16, FOT 6, MAZ 20	01904	CHR 67, 78	02010S	GMC 56, 65, GMT 15
01746	FOC 16, FOT 6, MAZ 20	01905	CHR 67, 78	02014	CHR 109, 127, CUM 4, 11, 12, 16
01750	MAC 5, 12	01910S	MAC 13	02014R	CHR 109, 127
01754	FOT 98, IHN 64	01911	CAT 81, 83, 84, 85, 88, 90, 95, 98, 103	02015	CHR 109, CUM 11, 16
01756	CUM 51	01912	CAT 81, 83, 84, 85, 88, 90, 95, 98, 103	02034	CHR 42
01757	FOT 89, 102	01913	FOC 65, FOT 45, LRV 3, MAZ 54	02035	CHR 42
01758	FOT 89, 102	01914	FOC 65, FOT 45, LRV 3, MAZ 54	02036	CHR 76, 94, MIT 38
01760S	CAT 45, 46, 65, 67	01916	CHR 43, 85	02040S	DAE 2, 3, GMC 49, 86, 97, GMT 31, ISU 12, SAB 9, 11, 12, SUZ 11
01761S	CAT 45, 46, 65, 67	01917	CHR 43, 85	02044	FOC 19
01762R	GMT 64, 98, ISU 35, MER 10, OMC 7	01918	CHR 76, 94, MIT 38, 40	02046	FOC 48, FOT 27, MAZ 50
01780S	GMT 119, 120, 121	01919	CHR 94, MIT 40	02047	FOC 48, FOT 27, MAZ 50
01781	CHR 134	01920	CHR 51	02053	GMC 106, 145, 147, 148, 149, GMT 69
01782	CHR 134	01921	CHR 51	02054	GMC 106, 132
01783	ALL 19, 20, MFT 16, 17, 19, 20, 24, 25, 28, 29, 30, 31, 32, 33, PER 20, 22, 23, 24, 28, 29, 38, 39, 40, 41, 42, 43	01922	FOC 70, 71, FOT 52, 67, 68, 91	02057	GMC 83, 90, 91, 92
01784	CAT 18, 19, 39, 40, MFT 18, 22, 23, 32, 33, 35, 36, 38, PER 21, 25, 27, 37, 38, 41, 45, 46, 49	01924S	FOC 70, FOT 52, 67, 91	02058	GMC 83, 90, 91, 92
01785	FOT 99, IHN 64, 65	01925	FOC 70, 71, FOT 52, 67, 68, 91	02084	CAS 23, 33, 34
01786	FOT 99, IHN 64, 65	01925S	FOC 70, FOT 52, 67, 91	02095	MAC 13
01787	FOC 44, 45, FOT 26, MAZ 49	01929	GMC 94, 102, GMT 37	02101	GMT 139, MER 13
01788	FOC 44, 45, FOT 26, MAZ 49	01931	GMC 177, 178, GMT 64, 98, ISU 35	02103	CHR 106
01789	FOC 60, FOT 39, 40, 48	01934	GMT 72, 80, 85, 86, ISU 33, SAB 14	02118	FOC 72, FOT 54, 70, 92
01790	FOC 60	01934S	GMT 72, 80, 85, 86	02119	FOC 72, FOT 54, 70, 92
01791	FOC 60, FOT 39, 40, 48	01935	GMC 160, 174, 175, 182, GMT 72, 73, 74, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 104, 105, 106, 108, 109, ISU 33, 34, 37, 38, SAB 14, 15	02119S	FOC 72, FOT 54, 70
01792	FOT 60	01935R-155	GMC 174, 175, GMT 106	02126S	GMT 139, MER 13
01798	MFT 20, PER 23	01935R-157	GMC 174, 175, GMT 106	02131	IHC 52, IHN 70, 80
01801	CUM 2, 10	01935R-160	GMC 174, 175, GMT 106	02160S	CAT 50, 51
01804	CAT 107, 108, 109, 116, 117, 118, 122, 125, 127, 130	01935S	GMT 72, 73, 74, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 104, 105, 106, ISU 37, 38	02161S	CAT 50, 51
01805S	CAT 107, 116, 122, 130	01936	FOC 19	02166	MFT 27, PER 36
01806	GMC 143, GMT 77	01937	GMC 69	02167	MFT 27, PER 36
01807	GMC 143, 177, 178, GMT 64, 77, 98, ISU 35	01941	GMC 69	02168S	CAT 107, 108, 109, 116, 117, 118, 122, 125, 127, 130
01807S	GMC 143, 177, 178, GMT 64, 77, 98, ISU 35, MER 10	01943	IHC 51, IHN 59, 71, 81	02172	GMC 105, GMT 40
01809	GMC 178				
01810	GMC 93, GMT 37				
01811	GMC 93, 94, 102, GMT 37				

Unlisted SBI part numbers are UNIVERSAL. See Numerical Listings for specifications. Arranged Alphabetically by Product Type.

Application Buyers Guide

SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.
VALVE (Cont'd)		VALVE (Cont'd)		VALVE (Cont'd)	
02173	GMC 105, GMT 40	10034S	NII 1, 2	10172	GMT 4, SUZ 6
02175	GMT 127	10036S	NIS 9, 20, 26, 42, 46, 47	10176	GMC 19, TOY 13, 14, 15, 16
02175R	GMT 127	10037	TOY 40	10177	GMC 19, TOY 13, 14, 15, 16
02176	GMT 127	10048	TOY 40	10190	HON 22, 23, 24, 25, 26, 38
02176R	GMT 127	10056	NIS 47	10191	HON 22, 23, 24, 25, 26, 38
02177	GMC 30, TOY 24	10060S	FOT 4, 5, MAZ 6, 12, 17	10192	HON 55, 56, 57, 58, 59, 60, 61, 62, 63, 64
02178S	GMC 30, TOY 24	10061	FOT 4, 5, MAZ 6, 12, 17	10193	HON 55, 56, 57, 58, 59, 60, 61, 62, 63, 64
02179	FOT 51, 80, IHN 29, 45	10064	CHR 18, 48, MII 3	10195	ACU 21, 22, HON 65, 75, 97
02179R	FOT 80	10065	CHR 18, 48, MII 3	10196	ACU 6, HON 65, 66, 67
02180	FOT 51, 80, IHN 29, 45	10069	TOI 10, 13, TOY 78, 81	10197A	ACU 19, 20, HON 76
02180R	FOT 80	10070	TOI 10, 11, 13, TOY 78, 79, 81	10198A	HON 76, 78, 79
02181	NIS 41	10076	CHR 8, 9, MII 1	10206	HON 84
02182S	NIS 41	10078	HON 5, 13, 14, 15, 45	10207	HON 84
02187	CUM 30	10083	CHR 8, 9, MII 1	10213	GMC 46
02188	CUM 30	10087	GMC 37, GMT 7, ISU 10	10214	ISU 15, THE 1
02192	FOC 64	10102S	GMC 1, 2, 4	10215S	ISU 15, THE 1
02193	FOC 64	10103	GMC 1, 2, 4, SUZ 2, 3, 5	10216	GMT 13, ISI 1, ISU 14
02194	KIA 1	10104	GMC 15, ISU 1	10217	GMT 13, ISI 1, ISU 14
02195	KIA 1	10105	GMC 15, 16, ISU 1, 2	10218	ISU 11, 16
02196	KIA 8	10106	GMC 20, TOY 4, 5, 12, 19	10220S	ISU 11, 16
02197	KIA 8	10107	GMC 20, TOY 4, 5, 12, 19	10221S	HON 96, ISU 16, 18
02220	CHR 106	10116	GMC 46, 47, 48	10224	NIS 16, 25
02231	CAT 43, 49	10117	GMC 47, 48	10226	NIS 41
02234	CHR 52	10118	FOC 2	10227S	NIS 41
02235	CHR 52	10122	ACU 6	10228	INF 1, NIS 34
02237	ISI 3, 7, ISU 31, 40	10123	ACU 21, 22, HON 97	10229	INF 1, NIS 34
02238	ISI 3, 7, ISU 31, 40	10126A	CHR 11, 12, 26, 27, HYU 8, 12, 15, 21, KIA 19, MIT 6, 7, 15, 16, 17, 26	10234	FOC 12, KIA 9, MAZ 14
02239	ISI 3, 7, ISU 31, 40			10235	FOC 12, KIA 9, MAZ 14
02240	SCI 2, TOY 8, 10, 11	10126R	CHR 11, 12, 26, 27, HYU 8, 12, 15, 21, KIA 19, MIT 6, 7, 15, 16, 17, 26	10236	KIA 11, MAI 5, 6, MAZ 22, 23, 24, 28, 29
02241	SCI 2, TOY 8, 10, 11			10237	KIA 11, MAI 5, 6, MAZ 22, 23, 24, 28, 29
02243	NII 6, 10	10127	CHR 9, 10, MII 1, 2, MIT 5	10243	MAZ 45, 46
02244	NII 6, 10	10128A	CHR 11, 12, 26, 27, HYU 8, 12, 15, 21, KIA 19, MIT 6, 7, 15, 16, 17, 26	10244	MAZ 45, 46
02245	FOC 45, JAG 1			10247	MAZ 48
02246	FOC 45, JAG 1	10128R	CHR 11, 12, 26, 27, HYU 8, 12, 15, 21, KIA 19, MIT 6, 7, 15, 16, 17, 26	10248	MAZ 48
02247	GMC 24			10255	NIS 12, 13, 14
02248S	GMC 24	10129	CHR 9, 10, MII 1, 2, MIT 5	10256	NIS 12, 13, 14
02249	DAE 1	10137	TOY 9	10268	NII 9, NIS 27, 28, 36, 37, 38, 39
02250S	DAE 1	10138	TOY 9	10269	NII 9, NIS 27, 28, 36, 37, 38, 39
02254	CUM 28, 29	10141	CHR 24, 25, MII 3, 4, MIT 9, 10, 13, 14	10270	NIS 31
02254S	CUM 28, 29	10142	CHR 24, 25, MII 3, 4, MIT 9, 10, 13, 14	10271	NIS 30, 31
02255	CUM 28, 29	10143	CHR 33, HYU 20, MII 4, 5, MIT 23, 24	10273	NIS 40
02255S	CUM 28, 29	10144	CHR 33, HYU 20, MII 4, 5, MIT 23, 24	10274S	NIS 40
02257	CUM 10, KOM 17	10145	CHR 48, 49, MAZ 44, MII 6, MIT 29, 30	10275	NII 12, NIS 43
02258S	CAT 78, 82, 86, 89, 96, 99	10146	CHR 48, MAZ 44, MIT 29	10276S	NII 12, NIS 43
02259S	CAT 78, 82, 86, 89, 96, 99	10146S	CHR 48, 49, MII 6, MIT 29, 30	10281	FOC 47, FOT 32, INF 7, NIS 50, 51, 56, 57
02260S	CAT 57	10147	CHR 55, HYU 28, MIT 31	10282	FOC 47, NIS 50, 51
02261	CAT 57	10148	CHR 55, HYU 28, MIT 31	10282S	FOC 47, FOT 32, INF 7, NIS 51, 56, 57
02262	CUM 44, 56	10153	FOC 2	10284	INF 4, NIS 52, 53
02263S	CUM 44, 56	10157	FOC 7, 8, KIA 6, MAZ 10, 11	10285S	INF 4, NIS 52, 53
02265	FOT 54, 70	10159	FOC 7, 8, KIA 6, MAZ 10, 11	10288	NII 8, 15
02267	GMC 160, GMT 73, 82, 83, 104, 106, ISU 37	10162	FOC 23, 24, MAZ 30, 31	10289S	NII 8, 15
05000	CAT 19, 40, MFT 23, 36, PER 27, 46	10163	FOC 23, MAZ 30	10299	SUB 16, 17
05001	CAT 20, 38, MFT 21, 34, PER 26, 44	10164	FOC 24, MAZ 31	10300	SUB 16, 17
05002S	CAT 20, 38, MFT 21, 34, 39, PER 26, 44, 47	10169	GMC 3	10302	SUZ 2, 3, 5
05003	CAT 21, MFT 26, PER 30	10170	GMC 3	10305	LEX 7, TOY 68, 73
05004	CAT 21, MFT 26, PER 30			10306S	LEX 7, TOY 68, 73
10015	NIS 9, 20, 26, 42, 46			10307	TOI 2, TOY 1, 2, 3
10030	NII 1, 2				
10031	NII 4, NIS 2, 3, 4, 5				

Application Buyers Guide

SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.
	VALVE (Cont'd)		VALVE (Cont'd)		VALVE (Cont'd)
10308	TOI 2, TOY 1, 2, 3	10537	INF 5, NIS 55	10778	ACU 30, 31, 32, 33, 34, GMT 39, HON 99, 100, 105, 106, 107, 108, 113
10309	TOY 6, 7	10538	INF 5, NIS 55	10779	ACU 18, 25, 30, 31, 32, 33, 34, 36, 37, 38, 39, 40, 41, 45, 47, 48, GMT 39, HON 99, 100, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118
10310	TOY 6, 7	10541	ACU 11, 12, 24, 30, HON 77, 83, 98, 104, ISU 17	10780	GMC 29, TOY 23
10311	TOY 6, 7	10542	ACU 11, 12, 24, 30, HON 77, 83, 98, 104, ISU 17	10781	GMC 29, TOY 23
10314	GMC 18, TOY 17, 18	10543	HON 80, 81	10784	DAE 2, 3, GMC 49, 86, 97, GMT 31, ISU 12, SAB 9, 11, 12, SUZ 11
10315	GMC 18, TOY 17, 18	10544	HON 80, 81	10786	GMT 10, 22, SUZ 9, 12, 15, 17
10321	TOY 51, 62	10546	ACU 19, 20	10787S	GMT 10, 22, SUZ 9, 12, 15, 17
10322	TOI 6, TOY 32, 41	10547	HYU 4	10788S	MAZ 14
10323	TOI 6, TOY 32, 41	10548	HYU 4	10792	NIS 41
10328A	TOY 45, 46, 47, 48	10549	HYU 4	10793S	NIS 41
10330A	TOY 45, 46, 47	10552	LEX 9, 11, TOY 69, 72	10794	INF 1, NIS 34
10337	TOY 65, 66	10553S	LEX 9, 11, TOY 69, 72	10795	INF 1, NIS 34
10338S	TOY 65, 66	10554S	VKW 37	10798	GMC 62, LEX 3, SCI 4, TOY 37, 43, 44
10339SA	TOY 67	10555S	VKW 37	10799	GMC 62, LEX 3, SCI 4, TOY 37, 43, 44
10340A	TOY 67	10556	VKW 56, 57	10803S	AUD 8, 46, 48, 54, 55, VKW 55
10342S	TOI 11, TOY 79	10562	FOC 15, MAZ 15, 18, 19	10804S	AUD 8, 46, 48, 54, 55, VKW 17, 55
10348	VKW 29, 49	10563	FOC 15, MAZ 15, 18	10805S	AUD 8, 46, 48, 54, 55, VKW 17, 55
10349S	VKW 29, 49	10624	CHR 55, HYU 28, MII 8, MIT 31	10806	SAB 7, SUB 16, 19, 20
10367	AUD 3, VKW 7, 8	10625	CHR 55, HYU 28, MII 8, MIT 31	10807	SAB 7, SUB 16, 19, 20
10370S	AUD 3, 35, 36, VKW 7, 8	10695	BMW 2, 3, 6, 7, 10, 12, 13	10808	HYU 25, 26, KIA 23, 24
10373	BMW 5	10696S	BMW 2, 3, 6, 7, 10, 12, 13	10809	HYU 25, 26, KIA 23, 24
10374S	BMW 5	10723	HYU 10, 14	10810	HYU 29, 33, KIA 30
10385	FOC 43, FOT 25	10724	HYU 10, 14	10811	HYU 29, 33, KIA 30
10386	FOC 43, FOT 25	10725	ISI 2, ISU 29	10812	HYU 5
10387	FOT 44, MAZ 53	10726	ISI 2, ISU 29	10813	HYU 5, 9, KIA 7
10388	FOT 44, MAZ 53	10728S	ISI 2, ISU 29	10814	KIA 12
10406	VOL 13, 14, 15, 16, 17, 18	10731	VKW 24, 25, 26, 27	10815	KIA 12
10413	HON 18, 19, 21	10732S	VKW 24, 25, 26, 27	10816	HYU 13, KIA 10
10414	HON 75	10733	AUD 47, VKW 37, 38, 40	10817	HYU 13, KIA 10
10420	TOY 34, 38	10734S	AUD 47, VKW 37, 38, 40	13000	DET 11, 12, 13, 15
10421	TOY 34, 38	10735	GMC 29, TOY 23	13001	DET 11, 12, 13, 15
10432	HON 78, 79	10736	GMC 29, TOY 23	13001S	DET 12, 13, 15
10434	ACU 3, 4, 5, HON 43, 44	10739	ACU 44, HON 103, ISU 25, 26	13002	IHN 72, 86
10435	ACU 3, 4, 5, HON 43, 44	10740	ACU 44, HON 103, ISU 25, 26	13003	IHN 72, 86
10436	ACU 27, 29, 42	10742	ACU 6, HON 66, 67	13006	CHR 109, 127, CUM 4, 11, 12, 16
10437	ACU 27, 28, 29, 42	10744	MAI 4	13006R	CHR 109, 127
10473	TOY 49, 50	10745	MAI 4	13013	GMC 125, 126
10474	TOY 49, 50, 51, 62	10748	NII 3	13016	CON 7, 16, 34
10495	CHR 7, MIT 4	10749	NII 3	13017	CON 7, 16, 34
10496	CHR 7, MIT 4	10750	NII 3	13018	CON 7, 16, 34
10497	CHR 7, MIT 4	10751	NII 3	13019	CON 7, 16, 34
10498	CHR 15, MIT 11, 21	10752	NII 5, 14	13021	KUB 3, 4
10499	CHR 15, MIT 11, 21	10753	NII 5, 14	13022	KUB 8, 9, 10, 11
10500	CHR 57, 58, MIT 32, 33, 36	10754	TOI 5	13023	KUB 8, 9, 10, 11
10501	CHR 57, 58, MIT 32, 33, 36	10755	TOI 5	13024	KUB 13, 14, 15
10502	ACU 26, HON 102, ISU 24	10757	TOI 5	13025	KUB 14, 15
10503	ACU 26, HON 102, ISU 24	10758	TOI 3	13028	KUB 13
10506	GMC 18, 28, TOY 18, 21	10759	TOI 3	13032	CAT 71, 74
10507	GMC 18, 28, TOY 18, 21	10760	TOI 3	13033	CAT 71, 74
10516	GMC 5, GMT 5, SUZ 4, 7, 8	10761	TOI 3	13038	KIA 4
10517	GMC 5, GMT 5, SUZ 4, 7, 8	10762	TOI 9, 12	13039	KIA 4
10518	LEX 10, TOY 70, 71	10763	TOI 9, 12	13040	GMC 180, GMT 102, 105, 107, 115, ISU 38
10520	GMC 42	10766	IHC 8, 14, 17, 21, 22, 28, 36, 40		
10521	GMC 42	10767S	IHC 8, 14, 17, 21, 22, 28, 36, 40		
10522	GMC 43	10768	TOI 8		
10523	GMC 43	10769	TOI 8		
10524	HON 39, 40, 41, 42, 46, 47, 48, 49	10770	TOI 4		
10525	ACU 8, HON 39, 40, 41, 42, 46, 47, 48, 49, 50, 53, 54	10771	TOI 4		
10534A	CHR 34, 35, 45, 59, MIT 25, 34, 37	10772	TOI 4		
10535A	CHR 34, 35, 45, 59, MIT 25, 34, 37	10773	TOI 4		
10536	NIS 16, 25				

Application Buyers Guide

SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.
	VALVE (Cont'd)		VALVE (Cont'd)		VALVE (Cont'd)
13042	GMC 180, 181, 187, 188, 189, 191, 192, GMT 102, 103, 105, 107, 110, 115, 116, 117, ISU 38, 39	13111	MFT 30, PER 42	13212	GMC 87, 88, 110, 112, 113, GMT 32, 33, 43, 44
13043	GMC 103, 104, 128, 129, 130, 131, GMT 41, 55, 56	13112	MFT 7, 8, 9, 10, 13, 14, PER 8, 9, 10, 11, 17, 18	13213	NIS 21, 32
13044	GMC 103, 104, 128, 129, 130, 131, GMT 41, 55, 56	13115	ISI 5, 6, ISU 36	13214	NIS 21, 32
13046	GMT 30, 49, 60, ISU 21, 28, 30, SAB 13	13117	ISI 9, ISU 42	13219	CAT 20, 38, MFT 21, 34, PER 26, 44
13047	HYU 9, KIA 7	13118S	ISI 9, ISU 42	13220	INF 8, 9, 10, 12, NIS 59, 60, 61
13051	MII 7, 10	13120	ISI 5, 6, ISU 36	13221	INF 8, 9, 10, 12, NIS 59, 60, 61, 62
13052	MII 7, 10	13121	ISI 4, 8, ISU 32, 41	13222	MIC 7, 8
13053	MII 7, 10	13122	ISI 4, 8, ISU 32, 41	13223	MIC 7, 8
13054	MII 7, 10	13134S	NII 20	13225	FOC 54, 58, FOT 33, 34, 37, MAZ 51, 52
13055	CAT 6	13135	MFT 17, PER 24	13226	FOC 54, 58, FOT 33, 34, 37, MAZ 51, 52
13056	CAT 6	13136	CAT 20, 38, MFT 21, 34, 39, PER 26, 44, 47	13230	GMT 26, SAB 10
13057	NII 20	13137	CAT 14, 25, 26, MFT 12, PER 15, 16, 31, 32	13233	NIS 17
13058	NII 13, 18	13138	CAT 14, 25, 26, MFT 12, PER 15, 16, 31, 32	13234	NIS 17
13059	NII 13, 18	13139S	SUB 19	13237	INF 8, 17, NIS 59, 60, 64, 65, SUZ 20
13060	TOI 1	13140S	SUB 19	13238	INF 8, NIS 59, 60, 64, 65, SUZ 20
13061	MAI 3	13141	PER 12, 13	13239	GMC 188, 189
13062S	MAI 3	13142	CAT 13, PER 12, 13, 14	13240	GMC 181, 187, 188, GMT 103, 107, 110, 115, 116, 117, ISU 39
13063	CAT 15, 16, 28, MII 9, 11	13143	CAT 13, PER 14	13241S	GMT 103, 110, 115, ISU 39
13064	CAT 15, 16, 28, MII 9, 11	13151	CAT 71, 74	13243	GMC 132, 145, 147, 148, 149, GMT 69
13065	NII 17, 19	13161	CHR 109, 127, CUM 4, 11, 12, 16	13244	GMT 74, 81, 84, 87, 88, 89, 109
13066	NII 17, 19	13162	CUM 30, 31	13246	JON 43, 66
13068	TOI 7	13163	CUM 30, 31	13251	CHR 94
13069	TOI 7	13168	GMI 1	13252	CHR 94
13070	TOI 1	13169S	GMI 1	13255	HYU 13, 16, 17, 22, 23, 24, KIA 13, 14, 15, 20, 21, 22, MIT 18, 19, 27
13073	CHR 52	13172	ACU 13, 14, HON 73, 85, 86, 87, 89, 92	13256	HYU 13, 22, 23, 24, KIA 13, 15, 20, 21, 22, MIT 18, 27
13074	CHR 52	13173	HON 73, 85, 86, 87, 89, 92	13257	SUB 27
13077	NIS 44, SUZ 16	13174	VKW 26, 27	13258	SUB 27
13078	NIS 44, SUZ 16	13176	JON 79	13259	SUB 27
13079	NIS 44	13177S	JON 74	13260	SUB 27
13080	NIS 44	13178S	JON 74	13261	SUB 29
13081	GMC 114, 115, GMT 45, 46	13179	GMT 30, 49, 60, ISU 21, 28, 30, SAB 13	13262	SUB 29
13082	GMC 81, 114, 115, GMT 45, 46	13182	FOT 86, IHN 47	13263	CHR 71
13083S	DET 11, 12, 13, 15	13182R	FOT 86	13264	CHR 65, 71
13084	NII 7, 11	13183	FOT 86, IHN 47	13265	FOT 90
13085	NII 7, 11	13183R	FOT 86	13266	FOT 90
13086	LEX 13, 14, 15, 16, 17, 21, 26, TOY 74, 75, 76, 77, 80, 83, 85, 86	13190	CHR 16, 21, 36, 37, 39	13273	LEX 18, 19, 23, TOY 84
13087	LEX 5, 13, 14, 15, 16, 17, 21, 22, 24, 26, TOY 74, 75, 76, 77, 80, 83, 85, 86	13191	CHR 16, 21, 37, 39	13274S	LEX 18, 19, 23, TOY 84
13088	TOY 80	13192S	CAT 57	13276	SUZ 13
13089S	TOY 80	13193	CAT 57	13277	SUZ 13
13091	HIN 7, 14	13194	CHR 106	13280	CAT 71, 74
13092	HIN 7, 14	13195	CHR 106	13286	HYU 30, 31, 34, 35, 36, 37, KIA 26, 27, 29, 31, 32
13093	HIN 17	13197	SUZ 10, 17	13287	HYU 30, 31, 34, 35, 36, 37, KIA 26, 27, 29, 31, 32
13094S	HIN 17	13198	SUZ 10, 17	13288	FOT 82
13095	HIN 1, 5, 6	13199	MIT 28	13289	FOT 82
13096	HIN 1, 5, 6	13200	MIT 28	13290S	FOT 82
13097	HIN 7, 8, 9, 10, 11, 12, 14	13201	SAB 6, 8, SUB 10, 21, 22	13291S	FOT 82
13098	HIN 7, 8, 9, 10, 11, 12, 14	13203S	SAB 6, 8, SUB 10, 21, 22	13293	GMC 50, 51, 63, 67, 68, GMT 16, 19, SAB 5
13099	MFT 1, PER 2, 3	13204	SUZ 18	13294	FOC 79, FOT 64
13100	MFT 1, PER 2, 3	13205	SUZ 18, 19	13295	FOC 79, FOT 64
13101	MFT 8, 9, 10, 14, PER 9, 10, 11, 18	13206	CHR 118	13300S	VVD 2
13102S	MFT 8, 9, 10, 14, PER 9, 10, 11, 18	13207	CHR 118	13301S	VVD 2
13103	MFT 7, 8, 9, 10, 13, 14, PER 8, 9, 10, 11, 17, 18	13208	TOY 61		
13105	CON 35, MFT 11	13209	TOY 61		
13106S	CON 35, MFT 11	13210	SUZ 19		
		13211	GMC 81, 87, 88, GMT 26, 32, 33, SAB 10		

Application Buyers Guide

SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.
	VALVE (Cont'd)		VALVE (Cont'd)		VALVE (Cont'd)
13302	VOL 1, 2, 20, 21, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 41, 42	13341S	GMC 26	13412	KOM 3, 10, YAN 13, 15
13303	VOL 1, 2, 20, 21, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 42	13342	GMC 32, 33	13413	JON 4, 13, YAN 4, 12
13304S	VOL 24, 25, 26, 27, 41	13343	GMC 32, 33	13414	JON 2, 10, THE 3, YAN 2, 7, 10
13305	MAZ 34	13344	FOC 55, FOT 35	13415	JON 1, 3, 8, 9, 12, KOM 1, 2, THE 2, YAN 1, 3, 5, 6, 9, 11
13306	MAZ 34	13345S	FOC 55, FOT 35	13416	JON 1, 2, 3, 4, 8, 9, 10, 12, 13, KOM 1, 2, THE 2, 3, YAN 1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12
13307S	MAC 5, 13	13347	MIT 39	13417	JON 43, 66
13308	CUM 44, 49, 54, 55, 56	13348	MIT 39	13420	CAT 58
13309S	CUM 44, 49, 54, 55	13349	MIT 39	13421	CAT 58
13310	AUD 78, 79, 80, 82, VKW 61, 63, 64, 65	13350	MIT 39	13424	MBD 6
13311S	AUD 78, 79, 80, 82, VKW 61, 63, 64, 65	13354	DET 16, 17	13427	CUM 57
13312	AUD 78, 79, 80, 82, 121, 122, VKW 61, 62, 63, 64, 65, 66	13355S	DET 16, 17	13428	FOC 40, 46, FOT 22
13313S	AUD 78, 79, 80, 82, 121, 122, VKW 61, 62, 63, 64, 65, 66	13356	CHR 60, MBT 3, MBZ 3	13429	FOC 40, 46, FOT 22
13314	AUD 56, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 75, 76, 77, 93, 95, 96, 98, 114, 116, VKW 60, 67, 68	13357	CHR 60, MBT 3, MBZ 3	13430S	CAT 82, 99
13315S	AUD 15, 16, 17, 18, 19, 20, 21, 22, 24, 25, 44, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, VKW 39, 41, 42, 43, 45, 62	13358	ACU 16, HON 88, 90, 91, 92, 93	13431S	CAT 82, 99
13316SN	AUD 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 29, 44, 56, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 93, 95, 96, 97, 98, 99, 100, 101, 114, 115, 116, 117, 118, 119, VKW 39, 41, 42, 43, 45, 60, 62, 67, 68	13359	ACU 16, HON 88, 90, 91, 92, 93	13432	GMT 65, 66, 90, 91, 92, 93
13317	VKW 52, 53, 54	13360	DET 5, 7, 8, 9, MBD 1, 2, 4, 5	13433	GMT 65, 66, 90, 91, 92, 93
13318	AUD 9, 26, 69, 70, 75, 76, 77, VKW 48, 52, 53, 54	13361	DET 5, 7, 8, 9, MBD 1, 2, 4, 5	13434S	MAC 16, VVD 4
13319S	AUD 94, 95, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, VKW 68	13363	PER 33, 34	13435S	MAC 16, VVD 4
13320SN	AUD 94, 95, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, VKW 68	13364	PER 33, 34	13436	JON 44, 67
13321	MIC 1, 4, 7	13365	LEX 1, SCI 3, TOY 25, 26, 27, 30	13437	JON 44, 67
13322S	MIC 1, 4, 7	13366	LEX 1, SCI 3, TOY 25, 26, 27, 30	13438	JON 44, 67
13323	MIC 2, 3, 8	13367	GMC 6, 7, 11, GMT 1, 2	13439	JON 44, 67
13324	MIC 3, 5, 6	13368S	GMC 6, 7, GMT 1, 2	13440	GMT 103, 110, ISU 39
13325SN	MIC 2, 3, 5, 6, 8	13369	GMC 11	13441	GMC 54, 70, 79, 80, GMT 12, 24
13326	CAT 2, 4, 8, 9, 10, 11, NHL 1, 2, 3, PER 1, 5, 6, SHB 1, 2, 3	13370	IHN 88	13442	GMC 70, 79, 80, GMT 24
13327	CAT 2, 4, 8, 9, 10, 11, NHL 1, 2, 3, PER 1, 5, 6, SHB 1, 2, 3	13371	IHN 88	13443	CAT 22, 42
13329	CAT 17, 27, 44, 48	13373	JON 15, 28	13444	CAT 22, 42
13330	CAT 17, 27, 44, 48	13374	JON 15, 28	13445	FOT 29
13331	GMC 52, SAB 5	13375S	MAC 3, VVD 1	13446S	FOT 29
13332SN	GMC 52, SAB 5	13376S	MAC 3, VVD 1	13447	CUM 59, KOM 30
13333	GMC 110, 111, 112, 113, GMT 43, 44	13377S	MAC 14, VVD 3	13448S	CUM 59, KOM 30
13334	GMC 115, GMT 45	13378S	MAC 14, VVD 3	13449	FOC 79
13335	GMC 114, 115, GMT 45	13379	MBD 6, 7	13451	IVE 1
13336	ACU 18, 25, 36, 37, 38, 39, 40, 41, 45, 47, 48, HON 106, 107, 109, 110, 111, 112, 114, 115, 116, 117, 118	13380	MBD 7	13452	IVE 1
13337	VKW 28, 30, 69	13381	DET 14	13453	FOC 4
13338S	VKW 28, 30, 69	13382	DET 14	13454	FOC 4
13340	GMC 26	13383	CUM 1, KOM 4, 5, 6, 7, 8, 9, 14, 15	13455	FOC 3, 5, FOT 2, 3
		13384	CUM 1, KOM 4, 5, 6, 7, 8, 9, 14, 15	13456	FOC 3, 5, FOT 2, 3
		13385	KOM 19, 20, 21	13457	FOC 1, FOT 1
		13386S	KOM 19, 20, 21	13458S	FOC 1, FOT 1
		13387	KOM 8, 15, 16	13459	PCR 1, 2
		13388S	CUM 1, KOM 8, 15, 16	13460	PCR 1, 2
		13389	KOM 22, 23, 24, 25	13461	CHR 71, 72
		13390S	KOM 22, 23, 24, 25	13462	CHR 71, 72
		13391S	KOM 20	13463	ISI 4, ISU 32
		13392	CAT 23, 41	13464	ISI 4, ISU 32
		13393	CAT 23, 41	13465	HIN 2, 3, 4, 13, 15, 16
		13394	CAT 23, 41	13466	HIN 2, 3, 4, 13, 15, 16
		13397	MIT 19	13467	GMC 111, 116, GMT 47, 48
		13398	GMT 11, NIS 21, 32	13468	GMC 111, 116, GMT 47, 48
		13400	CHR 22	13469	GMT 128, 129
		13401	CHR 38, 39, FIA 4	13470	GMT 128, 129
		13402	CHR 22, 38, 39, FIA 4	13471	CUM 42
		13403	YAN 21, 22	13472	CUM 42, 43
		13404	YAN 21, 22	13473	CUM 42
		13405	YAN 14, 16	13474	CUM 43
		13406	YAN 14, 16	20525	HON 39, 40, 41, 42, 46, 47, 48, 49
		13407	JON 11, YAN 8	21018	DET 3
		13408	JON 11, YAN 8	21037	MAC 6, 7, 9
		13409	KOM 12, 13, YAN 17, 18, 19, 20		
		13410	KOM 12, 13, YAN 17, 18, 19, 20		
		13411	KOM 3, 10, YAN 13, 15		

Application Buyers Guide

SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.
VALVE (Cont'd)		VALVE SEAT INSERT (Cont'd)		VALVE SEAT INSERT (Cont'd)	
21235S	GMT 111, 112, 130, 135	SB1250-54	AUD 8, 46, 48, 54, 55, GMC 18, 19, 28, GMT 5, NIS 16, SUZ 7, 8, TOY 18, VKW 17, 55	SB1375-2	FOT 51, 80, 86, IHN 29, 45, 47
21366	DET 18			SB1375-25	CAS 2, 4, 5
21375	JON 42, 60, 68	SB1250-56	FOC 12, 44, 45, FOT 26, GMC 58, MAZ 14, 49, NIS 11, 24	SB1375-3	CAS 1, 16, CON 17, 18, 19, 20, 23, 24, 25, 26, 27, 29, 30, 31, 32, 41, 45, 46, 47
21377	JON 61, 69	SB1250-58	ACU 3, 4, 5, HON 43, 44, KIA 12, LEX 10, 18, TOY 70, 71	SB1375-3N	CON 17, 18, 19, 20, 23, 24, 25, 26, 27, 30, 31, 32, 45, 46, 47, MAI 4
21412	JON 75	SB1250-59	CHR 34, 35, 45, 59, HON 67, MIT 25, 34, 37, SUB 1, 2	SB1375-4	ALL 1, 2, 3, 4, 5, 6, 7, 11, CAS 6, CON 21, 22, 28, FOC 32, 41, 53, FOT 18, 23, 24, IHN 31, MFT 3, 4, 5
21446	MAC 4, 7, 8	SB1250-60	CHR 15, MIT 11, 21	SB1375-5	WIS 1, 2, 3, 4, 5, 6, 8
21500	DET 6	SB1250-61	FOC 7, 8, 73, 74, FOT 53, 69, KIA 4, 6, MAZ 10, 11	SB1375-50	FOC 72, FOT 54, 70, 92, GMT 7, LEX 6, TOY 57
21547	FOI 23, FOT 100, 101	SB1250-62	ACU 2, CHR 20, FOC 30, FOT 15, 16, HON 39, 40, 41, 42, 46, 47, 48, 49, 80, 81, MAZ 33, 36	SB1375-50N	FOT 54, 70
21570	MAC 5, 12	SB1250-63	ACU 6, CHR 40, 84, HON 65, 75, SUB 16, 17	SB1375-51	CHR 8, 9, 10, FOC 2, GMC 21, ISU 5, MII 1, MIT 5, NIS 15, SAB 4
21586	JON 70, 71	SB1250-64	ACU 11, HON 76, 77, 78, 79	SB1375-52	HON 2, 3
21661S	CUM 51	SB1250-65	GMT 25, 38, 60, ISU 19, 27, 30, MAZ 13	SB1375-54	MAI 1, 2, MAZ 1, 2, 4, NIS 11, TOY 28
21750	MAC 5, 12	SB1250-66PM	CHR 71, 72	SB1375-55	ACU 11, AUD 7, 14, 39, 40, 42, 47, BMW 2, 6, 12, CHR 20, FOC 38, HON 16, 18, 19, 21, 65, 75, 77, 78, 79, MAZ 43, NIS 19, SUB 16, 17, VKW 10, 11, 12, 13, 15, 16, 50
21911	CAT 81, 83, 84, 85, 88, 90, 95, 98, 103	SB1262E-1	DET 6	SB1375-56	ACU 3, 4, 5, FOC 23, 24, GMC 101, GMT 4, HON 43, 44, MAZ 30, 31, SUZ 6, TOY 34, 38
21912	CAT 81, 83, 84, 85, 88, 90, 95, 98, 103	SB1262E-1+010	DET 6	SB1375-60	GMC 42, INF 14
22040S	DAE 2, 3, GMC 49, 86, 97, GMT 31, ISU 12, SAB 9, 11, 12, SUZ 11	SB1262E-1+020	DET 6	SB1375-61	FOC 70, 71, FOT 52, 67, 68, 91
22095	MAC 13	SB1262E-1+030	DET 6	SB1375-61N	FOT 52, 67, 91
VALVE GUIDE LINERS		SB1264E-1	GMT 127	SB1375-62	CHR 34, 35, 45, 59, MIT 25, 34, 37, HYU 4
KL1840A	CAT 12	SB1288E-1	LEX 5, 13, 14, 15, 16, 17, 21, 22, 24, 26, TOY 74, 75, 76, 77, 80, 83, 85, 86	SB1375-63	HYU 4
VALVE SEAT INSERT		SB1312-1	CAS 7, CON 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 14, IHC 2	SB1375-64	CHR 40, GMC 1, 2, 4, SUZ 2, 3, 5
SB1000-1	CON 1, 2, IHC 1	SB1312-3	FOC 49, 50	SB1375-65	HON 76, 80, 81
SB1062-50	FOC 7, 8, GMC 18, 28, GMT 5, HON 22, 23, 24, 25, 26, 38, 46, 47, 48, 49, KIA 6, MAZ 10, 11, NIS 16, SUZ 7, 8, TOY 7, 18, 33, 34	SB1312-4	MFT 1, PER 2, 3	SB1375E-1	CHR 109, 127, CUM 4, 11, 12, 16, DAE 2, 3, GMC 86, ISU 12
SB1062-51	HON 39, 40, 41, 42	SB1312-50	AUD 1, 2, 3, 4, 5, 35, 36, 37, 38, CHR 13, VKW 3, 4, 5, 6, 7, 9	SB1375E-2N	CHR 109, 127, CUM 4, 11, 12, 16
SB1088E-1	CHR 52	SB1312-52	GMC 22, 36, ISU 3, 4, 6, KIA 8, NII 4, NIS 2, 3, 4, 5, 41, 54	SB1381E-1	CAT 17, 27, 44, 48
SB1125-1	CON 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 14, 15, MFT 2	SB1312-53	CHR 4, 5, 6, HYU 2, MIT 1, 2, 3	SB1382E-2	DET 5, 7, 8, 9, MBD 1, 2, 4, 5
SB1125-51	GMC 19, KIA 4	SB1312-56	AUD 1, 2, 3, 4, 5, 35, 36, 37, 38, CHR 13, GMC 17, HON 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, VKW 3, 4, 5, 6, 7, 9	SB1400E-1PM	CAT 1, 2, 3, 4, 5, 7, 8, 9, 10, 11, NHL 1, 2, 3, PER 1, 4, 5, 6, SHB 1, 2, 3
SB1125-52	CHR 7, FOC 38, MAZ 43, MIT 4	SB1312-57	MAZ 48, NIS 6, 7, 12, 13, 14	SB1420E-2	CAT 22, 42
SB1125-53	AUD 8, 46, 48, 54, 55, GMC 42, HYU 4, KIA 8, VKW 17, 55	SB1312-59	GMC 20, HYU 30, 31, 34, 35, 36, 37, KIA 26, 27, 29, 31, TOY 4, 5, 12, 19	SB1437-1	CHR 53, 64, 73, FOC 10, GMC 60, IHC 6
SB1125-54	AUD 41, 43, HON 16, 18, 19, 21, VKW 14, 36	SB1312-6	NIS 1	SB1437-2	ALL 9, 17, 23, BUD 5, 6, 8, 9, 21, 22, 23, 24, FOC 49, 50, 53, 66, FOI 6, 7, FOT 8, 30, 31, 44, GMC 39, 44, 98, 142, 144, GMT 36, 68, MAZ 53
SB1125-55	MAZ 13	SB1312-62	CHR 7, MIT 4, NIS 8, VOL 22, 23	SB1437-2N	ALL 10, 12, 18, 21, 22
SB1160E-1	CHR 52	SB1312-63	INF 4, NIS 52, 53	SB1437-3	BUD 13, 14, 15, 16, 29, 30, 31, 32, 33, CAS 2, 3, 4, 7, 16, CHI 2, 3, 10, 11, CHR 54, 74, 75, CON 17, 18, 19, 20, 24, 25, 26, 27, 29, 30, 31, 32, 35, 36, 37, 40, 45, 46, 47, 48, 49, 50, 51, 52, 54, FOC 41, 48, FOT 23, GMC 117, 151, 166, GMT 28, IHC 2, 3, 4, 5, 7, JON 7, MFT 11
SB1161E-1	DET 3	SB1312-64	ACU 6, AUD 41, 43, BMW 2, 6, 12, CHR 11, 12, 26, 27, 57, 58, HYU 8, 12, 15, 29, 33, KIA 30, MIT 6, 7, 15, 16, 26, 32, 33, 36, VKW 14, 36	SB1437-3N	CON 17, 18, 19, 20, 24, 25, 26, 27, 29, 30, 31, 32, 38, 39, 42, 43, 45, 46, 47, 50, 51, 52, 55, FOT 27, IHC 3, JON 16, 17, 21, 22, 32, 33, MAZ 50, MFT 6, 7, 13, PER 7, 8, 17, 35
SB1161E-1+010	DET 3	SB1312-67	GMC 58, 59, 61, 147, 148, TOY 49, 50, 51, 62	SB1437-4	FTR 24, GMC 82, 83, 137
SB1175E-1	CHR 52	SB1312-68	SAB 4, TOY 7		
SB1184E-1	CAT 22, 42	SB1322E-1	CAT 17, 27, 44, 48		
SB1187-1	IHC 1, 2, 3	SB1339E-2	FOC 16, FOT 6, MAZ 20		
SB1187-51	CHR 15, FOC 16, FOT 6, MAZ 20, MIT 11, TOY 38	SB1343E-1	GMC 127		
SB1187-52	DAE 2, 3, GMC 3, 21, 22, 36, 86, HON 22, 23, 24, 25, 26, 38, ISU 3, 4, 5, 6, 12, SUZ 1, TOY 65, 66	SB1348E-1N	CAS 2, 4, 5, 9, 10, 11, CON 33, 35, 53, 56, FTR 1, 2, 3, MFT 11		
SB1187-53	LEX 6, 7, 9, TOY 57, 68, 69, 72, 73	SB1375-1	BUD 1, 2, 3, 4, 7, 10, 11, 12, 17, 18, 19, 20, 26, 27, CAS 8, FOC 9, 10, 42, GMC 8, 23, 134, 146, IHC 11, 15, 20, 31		
SB1187-54	ACU 2, CHR 15, MIT 11, 21	SB1375-1N	ALL 12, 21, 22		
SB1218E-1	CHR 52				
SB1250-1	CON 21, 22, 28, FTR 7, MFT 3, 4, 5				
SB1250-15N	FOT 51, 80, 86, IHN 29, 45, 47				
SB1250-3	FOT 51, 80, 86, IHN 29, 45, 47				
SB1250-50	GMC 56, 57, 64, 65, 66, 69, GMT 15, 16, 17, 18, 25, 38, 60, ISU 19, 27, 30, NIS 15, TOI 2, TOY 1, 2, 3				
SB1250-52	FOC 2, HON 5, 9, 10, 11, 12, 13, 14, 15, 17, 20, 45				
SB1250-53	CHR 3, TOY 6, 7				

Application Buyers Guide

SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.
VALVE SEAT INSERT (Cont'd)		VALVE SEAT INSERT (Cont'd)		VALVE SEAT INSERT (Cont'd)	
SB1437-50	AUD 1, 2, 3, 4, 5, CHR 13, VKW 3, 4, 5, 6, 7, 9	SB1500-58	GMC 40, 41, SUB 3, 4, 5, 6, 7, 8, 26, TOI 6	SB1562-50	CHR 8, 9, 10, MII 1, MIT 5
SB1437-51	MIT 1, VOL 12, 45, 46	SB1500-6	CHM 14	SB1562-51	HON 4
SB1437-53	CHR 3, HON 4, NIS 10	SB1500-62	AUD 35, 36, BMW 5, 8, CHR 18, 24, 25, 48, GMC 46, 47, 48, GMI 1, MIT 9, 10, 13, 14, VOL 22, 23	SB1562-54	FOC 11, 13, 14
SB1437-56	GMC 37, TOY 58, 59, 63	SB1500-63	BMW 16, CHR 29, 30, 31, 46, 47	SB1562-57	GMT 38, MAI 2, MAZ 1, 2, 4
SB1437-58	GMT 9, 13, ISI 1, ISU 14	SB1500-70	NII 12, NIS 43, SAB 1, 2, 3	SB1562-6	CAS 11, FOT 21, IHN 3, 4, 5, 6, 10, 11, 12, 14
SB1437-59	AUD 6, 10, 11, CHR 17, 57, 58, MIT 32, 33, 36	SB1500-71	CHR 67, 78, FOC 19, GMC 20, JAG 4, TOY 4, 5, 12, 19	SB1562-66	CHR 76, 94, GMC 45, 55, GMT 14, ISU 11, 13, 16, MIT 38, 40, NIS 6, 7, 12, 13, 14, TOY 49, 50, 51, 62
SB1437-6	NII 5, 14	SB1500-72	MAZ 21	SB1562-66PM	CHR 76, 94, MIT 38, 40
SB1437-60	NIS 35	SB1500-73	FOC 72, FOT 54, 70, 92, GMC 83, 90, 91, 92, 93, 94, 101	SB1562-67	FOT 48, GMC 17, MAI 1, TOY 45, 46, 47, 48
SB1437-61	CHR 7, MIT 4, NIS 49, VKW 29, 49	SB1500-73N	FOC 72, FOT 54, 70, 92	SB1562-69	CHR 55, HYU 28, MII 8, MIT 31
SB1437-62	GMC 40, 41	SB1500-74	GMC 58, NIS 24, 41	SB1562-69N	CHR 55, HYU 28, MII 8, MIT 31, TOY 67
SB1437-63	CHR 6, MIT 2, 3	SB1500-75	CHR 14, MIT 8	SB1562-6N	ALL 19, 20, CON 58, 61, MFT 18, 20, 24, 28, 29, 30, PER 21, 23, 28, 37, 38, 39, 40, 42
SB1437-65	FOC 14, SUB 1, 2	SB1500-77	CHR 40, 41, 42, GMC 3, 58, 59, 61, INF 4, NIS 52, 53, 54	SB1562-7	GMC 163, 164, GMT 94, MFT 1, PER 2, 3, TOI 5, 8
SB1437-66	FOC 6, MAZ 8, 47	SB1500-79	FOC 73, 74, FOT 53, 69, GMT 4, SUZ 6	SB1562-72	TOY 67
SB1437-67	ACU 26, HON 102, ISU 23, 24, TOY 39, 52	SB1500-80	MAZ 45, 46	SB1562-74	CHR 67, 78
SB1437-68	CHR 11, 12, 26, 27, HYU 8, 12, 15, MIT 6, 7, 15, 16, 26	SB1505E-1	CAT 61, 64, 66, 70	SB1562-77	GMC 1, 2, 4, SUZ 2, 3, 5
SB1437-69	GMC 43, 56, 57, 64, 65, 66, GMT 15, 17, 18	SB1516E-1	CHI 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 18, 21, 22, 29, 30, 31, 39, CHR 70, 77	SB1562-78	VOL 13, 14, 15, 16, 17, 18
SB1437-72	LEX 7, 9, 10, 18, TOY 68, 69, 70, 71, 72, 73	SB1518E-1	CAT 13, PER 12, 13, 14	SB1562-8	IHC 12, 13, 16, 18, 24, 30, 32, 33, IHN 7, 8, 9, 15, 16, 17, 18, 23, 24, 25
SB1437-73	CHR 26, 27	SB1527E-1	LEX 13, 14, 15, 16, 17, 21, 26, TOY 74, 75, 76, 77, 80, 83, 85, 86	SB1562-9	GMC 85, 99, 120, 122, 123, 124, 125, 126, 127, 133, 135, 168, 184, 185, 209, GMT 52, 53, MER 1, 4, 5, 6, 8, 9, 10, OMC 1, 2, 3, 4, 6, 7
SB1437-74	FOC 12, GMC 147, 148, MAZ 14, 45, 46	SB1536E-2N	IHC 37, 41, 42, IHN 39, 40	SB1577E-1	CAT 57
SB1437-75	FOC 23, 24, KIA 12, MAZ 30, 31, 48	SB1538E-2	CUM 1, KOM 4, 5, 7, 14, 15	SB1578E-1	IHN 88
SB1437E-2	JON 43, 44, 66	SB1538E-3	CAT 58	SB1579E-1C	MAC 3, VVD 1
SB1441E-1	DET 1	SB1539E-2	ISI 2, 5, 6, ISU 29, 36	SB1584E-1	IHN 72, 86
SB1442E-1	DET 18	SB1539E-5	KOM 8, 15, 16	SB1587E-1	DET 5, 7, 8, 9, MBD 1, 2, 4, 5
SB1442E-1+020	DET 18	SB1540E-1	CAT 23, 41	SB1600E-1	FTR 8, 9, 10, 15, 16, 17, 18, 21, 22, 23, 25, 26, 29, 30
SB1442E-1+030	DET 18	SB1541E-1	HIN 2, 3, 4, 13, 15, 16	SB1609E-1	ALL 13, 24, 25, 26
SB1442E-2	CAT 61, 64, 66, 70	SB1554E-1	CUM 30, 31	SB1618E-2	HIN 2, 3, 4, 13, 15, 16
SB1459E-1	CAT 57	SB1554E-2	CUM 30, 31	SB1624E-1N	CHI 41, 42, 43, 44, 50, 51, CHM 20, CHR 117
SB1476E-2	JON 43, 44, 66	SB1558E-1PM	CAT 1, 2, 3, 4, 5, 8, 9, 10, 11, NHL 1, 2, 3, PER 1, 5, 6, SHB 1, 2, 3	SB1625-1	BUD 1, 2, 3, 4, 7, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 26, 27, 29, 30, 31, 32, 33, CAS 1, 12, 14, 16, 21, 31, CHI 6, 7, 8, 9, 12, 14, 15, 16, 17, 18, 37, 38, CHM 14, 16, CHR 28, 44, 70, 75, 77, 82, 83, 98, 99, 101, CON 17, 18, 19, 20, 23, 24, 25, 26, 27, 29, 30, 31, 32, 33, 36, 37, 41, 45, 46, 47, 50, 51, 52, 53, 56, FOC 41, 51, 52 (cont'd)
SB1479E-1C	CAT 57	SB1562-1	ALL 10, 18, 23, BUD 8, 9, 23, 24, CAS 10, CHI 5, CHR 28, CON 40, 42, 43, FOC 25, 26, 29, 32, 67, 75, 77, 78, 88, FOT 12, 13, 14, 18, 46, 50, 55, 62, 63, 73, 74, GMC 71, 72, 73, 74, 75, 76, 77, 109, 118, 140, 146, 152, 155, 156, 158, 159, 168, 173, 177, 203, 206, 207, GMT 42, 50, 62, 63, 64, 71, 76, 77, 96, 97, 98, 123, IHC 6, 10, 27 (cont'd)	SB1625-10	CHR 133
SB1480E-2	IHN 72, 86	SB1562-1N	FOT 62, 63, 73, GMI 2, GMT 64, 71, 76, 77, 95, 96, 97, 98, ISU 35, JON 30, 35, 40, 48, 52, 53, 57, MER 10, OMC 7	SB1625-11	FTR 7, GMC 134, TOY 28
SB1486E-1	ALL 13, 24, 25, 26	SB1562-2	FOC 69, 76, 82, FOI 11, 12, 13, FOT 56, GMC 78, 84, 95, 96, 108, 119, 139, 141, 150, 157, 163, 164, 171, GMT 23, 35, 51, 54, 59, 61, 67, 70, 78, 94	SB1625-11+006	FOI 1, 2, 3, FTR 4, 5, 6, 12, 13, 14
SB1500-1	ALL 1, 2, 3, 4, 5, 6, 7, 8, 11, CAS 5, 6, 8, 9, CHI 1, 4, CHM 1, 2, CHR 66, 79, 86, 88, 93, 95, 97, 103, FOC 18, 43, 56, 68, FOT 25, GMC 82, 83, 90, 91, 96, 100, 120, 121, 122, GMT 29, 34, IHC 12, 19, IHN 13, 21, ISU 20, 22, NIS 1	SB1562-2N	GMT 59	SB1625-1N	CHR 99, JON 41, 59, MIN 2, 3, 5, 6, 8
SB1500-1N	CAS 13, 14, 15	SB1562-36	CHR 43, 85, FOC 27, 28, 37, 78, GMC 168	SB1625-2	CAS 20, 30, CHI 19, 20, 23, 24, 25, 26, 27, 28, CHM 19, CHR 91, 111, MAI 4, WIS 6, 8
SB1500-3	ALL 9, 12, 17, 21, 22, BUD 5, 6, 21, 22, 25, 28, CAS 12, 21, 31, GMC 102, GMT 37, IHC 10, 20, 31, 34, WAU 1, 2	SB1562-36N	GMT 119, 120, 121	SB1625-20	CHI 41, CHM 20
SB1500-4	FOC 78, GMC 168	SB1562-4	ALL 12, 21, 22, JON 14, 20, 27, 31	SB1625-2N	CAS 32, CHR 100
SB1500-50	CHR 76, 94, FOC 70, 71, FOT 52, 67, 68, 91, GMT 7, 8, ISU 7, 9, 10, MIT 38, 40	SB1562-4+010	ALL 14, 15, 16, CHI 5	SB1625-3	CON 57, 60, GMC 173, IHN 35, 36
SB1500-50N	FOC 70, FOT 52, 67, 91	SB1562-42	GMC 99, 125, 126, GMT 53	SB1625-33	FOT 75
SB1500-50PM	CHR 76, 94, MIT 38, 40	SB1562-46N	ISI 2, 5, ISU 29, 36	SB1625-3N	FOI 23, GMT 97, IHN 67, 68, MER 10, OMC 7
SB1500-53	BMW 17, 18, NIS 26, 40	SB1562-5	ALL 12, 21, 22, FOC 9		
SB1500-54	KIA 11, MAI 5, MAZ 22, 23, 24, 28, 29, NIS 9, 20, 23, 30, 31, 42, 46, 47, 48				
SB1500-56	HYU 30, 31, 34, 35, 36, 37, KIA 26, 27, 29, 31, NII 4, NIS 2, 3, 4, 5, TOI 2, TOY 1, 2, 3				
SB1500-57	FOT 4, 5, MAZ 6, 12, 17				

Unlisted SBI part numbers are UNIVERSAL. See Numerical Listings for specifications. Arranged Alphabetically by Product Type.

Application Buyers Guide

SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.
VALVE SEAT INSERT (Cont'd)		VALVE SEAT INSERT (Cont'd)		VALVE SEAT INSERT (Cont'd)	
SB1625-4	NII 3, TOI 3	SB1669E-1	FOT 93, 97, 98, IHN 61, 63, 64	SB1695E-1	JON 25, 26, 38, 46, 47, 54, 64, 65
SB1625-50	AUD 7, 14, 39, 40, 42, 47, VKW 10, 11, 12, 13, 15, 16, 29, 49, 50	SB1669E-2N	CAT 71, 74	SB1696E-1C	VVD 2
SB1625-52	TOY 58, 59	SB1670E-1	ALL 30, 31, 32	SB1696E-2C	VVD 2
SB1625-53	NIS 27, 28, 29, 36, 37	SB1671E-1N	FOT 81	SB1696E-3	MBD 6
SB1625-54	FOC 6, 59, 60, 65, FOT 38, 39, 45, HON 96, ISU 16, 18, LRV 3, MAZ 54	SB1676E-1	JON 74	SB1696E-4	MBD 7
SB1625-55	GMT 9, 13, ISI 1, ISU 14	SB1676E-2	CAT 58	SB1697E-1	ISI 3, 7, ISU 31, 40
SB1625-56	BMW 15, CHR 33, 48, 49, HYU 20, MAZ 44, MIT 23, 24, 29, 30	SB1678E-1	IHC 35, 39, IHN 1, 32, 33, 37, 38	SB1697E-2	MAC 14, VVD 3
SB1625-58	TOI 10, 13, TOY 78, 79, 81	SB1681E-1	MFT 6, 7, 13, PER 7, 8, 17, 35	SB1711E-1C	CAT 59, 60, 72, 73
SB1625-59	NII 12, NIS 43	SB1681E-3	ALL 19, 20, MFT 18, 20, 24, 28, 29, 30, PER 21, 23, 28, 37, 38, 39, 40, 42	SB1717E-1	PCR 1, 2
SB1625-60	NII 9, NIS 38, 39	SB1687-1	CON 48, 49, 54, 55, FOC 63, 85, 89, 91, 92, 94, 95, FOT 43, 58, 76, 78, 84, NII 5, 14	SB1722E-1	CAS 17, 18, 19, 28, 29, CHR 108, CUM 2, 3, 10, GMT 57, KOM 11, 17
SB1625-62	CHR 106, FOC 14, MAZ 8, 47	SB1687-15	GMT 119	SB1722E-3	CUM 10, KOM 17
SB1625-62PM	CHR 106	SB1687-16	CHR 83, 101, 115, GMC 172, GMT 99	SB1725E-2N	MAC 10, 11
SB1625-63	BMW 1, 4, 9, 11, 14, 15	SB1687-17	GMC 171	SB1727E-2N	IHC 43, 44, 46, 47, IHN 57, 58
SB1625-64	GMC 160, 174, 175, 182, GMT 72, 73, 74, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 104, 105, 106, 108, 109, ISU 33, 34, 37, 38, MBZ 2, 4, SAB 14, 15	SB1687-1N	FOT 57	SB1733E-2N	FOT 89, 102
SB1625-64N	GMT 72, 73, 74, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 104, 105, 106, 108, ISU 37, 38	SB1687-2	CAS 13, 15, CHI 32, 33, 34, 35, 36, CHM 11, 13, CHR 54, 92, 98, 99, 102, 104, 105, 110, 112, 113, 114, 115, 121, 130, FOC 42, 68, FOT 8, 24, GMC 39, 44, 82, 83, 98, 109, 137, 142, 154, 164, 165, 168, 171, 196, 206, 222, GMT 28, 36, 42, 75, IHC 11, 15, 20, 30, 31, IHN 31, JON 7, 16, 17, 21, 22, 32, 33, MER 2, OMC 2	SB1744E-1N	FOI 21, 24, 25, FOT 88, 103, 104, 105
SB1625-64PM	GMC 160, 174, 175, 182, GMT 72, 73, 74, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 105, 106, 108, 109, ISU 33, 34, SAB 14, 15	SB1687-2N	CHR 99, 114	SB1750-0	WAU 4
SB1625-67PM	CHR 71, 72	SB1687-3	CHM 3, 18, CON 58, 61, IHC 18, IHN 7, 8, 9, 15, 16, 17, 18	SB1750-1	ALL 14, 15, 16, CHI 1, 2, 3, 4, 10, 11, 37, 38, CHM 1, 2, 22, CHR 74, GMC 60, 96, 117, IHN 20
SB1625-8	HAR 1, 5, 6	SB1687-4	FOI 15, 16, 17, FOT 65, 77, 79, 83, 85	SB1750-12	DET 10
SB1626E-1N	IHN 59, 71, 81	SB1687-4N	FOI 14, 19, 20, 22, FOT 66, 79, 81, 85	SB1750-1N	JON 42, 60
SB1628E-1N	IHC 48, 49, 50, IHN 59, 60, 62, 73, 74, 75, 76	SB1687-5	FOT 59	SB1750-2	CHI 29, 30, 31, 39, 40, 45, 46, 47, 49, CHR 53, 64, 73, 110, 116, 121, 126, 128, FOC 41, 43, 48, 53, 66, 67, 75, 82, 86, 93, 94, 96, 97, 98, FOI 6, 7, FOT 23, 25, 27, 30, 31, 46, 72, 87, FTR 21, GMC 99, 120, 121, 122, 125, 126, 162, 169, 171, 196, 202, 203, 204, 205, 211, 212, 213, 217, 219, 224, 225, 226, GMT 53, 111, 112, 130, 131 (cont'd)
SB1628E-2	DET 2	SB1687-51	CHR 29, 30, 31, 46, 47	SB1750-2N	FOC 87, FOI 23, FOT 100, JON 61, 68, 69
SB1628E-2+010	DET 2	SB1687-54	GMC 40, 41	SB1750-3	FOC 18, 76, FOI 11, 12, 13, FOT 56, FTR 24, GMC 138, 223, IHN 30, 34
SB1628E-2+020	DET 2	SB1687-55	TOI 6	SB1750-38	FOC 97
SB1628E-2+030	DET 2	SB1687-56	NIS 40	SB1750-3N	IHN 49
SB1628E-3	DET 11, 12, 13, 15	SB1687-57	MAZ 21	SB1750-4	CHR 120, FOT 99, HAR 2, 4, IHC 8, 14, 17, 21, 22, 28, 36, 40, IHN 65
SB1628E-3SA	DET 11, 12, 13, 15	SB1687-58	GMC 43	SB1750-4N	FOT 99, IHN 65
SB1628E-3T	DET 11, 12, 13, 15	SB1687-5N	CHR 134, FOI 14, FOT 60, JON 18, 49	SB1750-5	CAS 26
SB1630E-1	CAS 23, 33, 34, FOI 8, 10, 15, 16, 17, 18, FOT 47, 49, 61, 65, 71, 77, 79, 83, 85, FTR 19	SB1687-7	ALL 27, 33, CHM 16, CON 59, 62, 63	SB1750-51	GMT 7, ISU 10, 11, 16
SB1630E-1N	FOI 19, 20, 22, FOT 66, 79, 85, FTR 8, 9, 10, 15, 16, 17, 18, 21, 22, 23, 25, 26, 29, 30	SB1687-8	ALL 28, 29, 34, 35	SB1750-52	GMT 7, NIS 42, 46
SB1634E-3	GMC 180, 181, 187, 188, 189, GMT 102, 103, 105, 107, 115, 116, 117, ISU 38, 39	SB1687E-1N	CAT 76, 77, 78, 79, 80, 81, 83, 84, 86, 87, 88, 90, 91, 96, 97, 98, 102, 110	SB1750-60	BMW 5, 8, 16, 17, 18, FOC 11, 13, 14
SB1634E-3N	GMT 110, 115	SB1687E-4N	CAT 78, 79, 82, 86, 89, 96, 99	SB1750-61	CHR 18, 24, 25, 48, 55, HYU 28, MII 8, MIT 9, 10, 13, 14, 31
SB1634E-3PM	GMC 180, 181, 187, 188, 189, GMT 102, 103, 105, 107, 115, 116, 117, ISU 38, 39	SB1687E-5C	CAT 78, 82, 86, 89, 96, 99	SB1750-65	GMC 83, 90, 91, 92, 93, 138, SAB 1, 2, 3
SB1638E-1N	JON 19, 23, 24, 34, 36, 37, 39, 45, 51, 55, 56, 62, 63	SB1687E-6C	CAT 83, 85, 95, 103	SB1750-68	GMC 40, 41, TOY 67
SB1638E-2	JON 74	SB1690E-1	ALL 19, 20, MFT 18, 20, 24, 28, 29, 30, PER 21, 23, 28, 37, 38, 39, 40, 42	SB1750-7	CAS 19, 29, CHR 108, CUM 2, 10, FTR 20, 28, GMT 57, KOM 17
SB1638E-2T	JON 74	SB1691E-1	CUM 8, 9, 13, 14, 24, 25, 26, 27, 32, 33	SB1750-8	IHN 41, 42, 43, 44, 50, 51, 52
SB1640E-1	CHM 4, 6, 7, CHR 80, 81, 87, 89, FOC 61, 62, FOT 41, 42	SB1691E-2	CUM 8, 9, 13, 14, 24, 25, 26, 27, 32, 33	SB1750-8N	CUM 10, KOM 17
SB1654E-1N	IHN 55, 66	SB1692E-1N	MAC 5, 12, 13	SB1750-9	CAS 25, 35, 36, MIN 4, TOI 8
SB1656E-1	CAT 50, 51	SB1693E-1N	CAT 76, 77, 78, 79, 80, 81, 83, 84, 86, 87, 88, 90, 91, 96, 97, 98, 102, 110	SB1756E-1	CUM 42
SB1656E-2	IHN 88	SB1693E-2	CAT 76, 77, 91, 102, 110	SB1756E-2C	CUM 43
SB1656E-3	CAT 50, 51	SB1693E-8N	CAT 24, 43, 49	SB1772E-2	HAR 5, 9
SB1657E-1	IHC 8, 14, 17, 21, 22, 28, 36, 40, 43			SB1775E-1	IHN 85
SB1658E-1C	MAC 3, VVD 1			SB1775E-3	CUM 1, KOM 4, 5, 7, 14, 15
				SB1775E-4	KOM 8, 15, 16

Application Buyers Guide

SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.
VALVE SEAT INSERT (Cont'd)		VALVE SEAT INSERT (Cont'd)		VALVE SEAT INSERT (Cont'd)	
SB1776E-1C	MAC 14, VVD 3	SB1814E-4C	CAT 50, 51	SB1875-6	CHR 130, FOC 57, 78, 88, FOT 36, 73, 74, GMC 151, 152, 166, IHC 9, 12, 13, 16, 18, 24, 30, 32, 33, JON 18, 49
SB1781E-1N	FOI 23, FOT 94, 95, 96, 101	SB1815E-1	FOI 15, 16, 17, 19, 20, 22, FOT 65, 66, 77, 79, 83, 85	SB1875-7	IHN 46
SB1782E-1	IHC 37, 41, 42, IHN 39, 40	SB1815E-2	CAT 23, 41	SB1875-8	CAS 19, 29, CHR 108, CUM 2, 10, GMT 57, KOM 17
SB1782E-2	CAT 13, PER 12, 13, 14	SB1817E-3	CAT 78, 79, 80, 82, 86, 87, 89, 96, 97, 99	SB1875-9	CHR 120
SB1784E-1N	GMT 133, 135, 139, MER 13	SB1818E-1	CAT 76, 77, 91, 102, 110	SB1880E-1	MFT 6, 7, 13, PER 7, 8, 17, 35
SB1792E-1	CAT 71, 74	SB1818E-2	CAT 76, 77, 91, 102, 110	SB1880E-2	CAT 31, 33, 36, 37, 55, 56
SB1803E-1	IHC 45, IHN 2, 48	SB1819E-1	DET 11, 12, 13, 15	SB1882E-1C	MBD 6, 7
SB1811E-2N	IHC 52, IHN 70, 80	SB1823E-1	IHC 52, IHN 70, 80	SB1891E-1	CAT 81, 83, 84, 88, 90, 98
SB1811E-3	IHC 52, IHN 70, 80	SB1831E-1	MAC 5, 12	SB1891E-2	CAT 83, 85, 95, 103
SB1812-1	BUD 25, 28, CAS 20, 30, 32, CHI 13, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, CHM 4, 6, 7, CHR 80, 81, 87, 89, 91, 98, 99, 101, GMC 102, 169, 204, 217, 224, GMT 37	SB1832E-1	JON 79	SB1894E-1	ISI 3, 7, ISU 31, 40
SB1812-12	GMC 146	SB1835E-1	KOM 19, 20, 21, 22, 23, 24, 25	SB1894E-2	ISU 42
SB1812-2	FOC 25, 26, 27, 28, 29, 37, FOT 12, 13, 14, 21, FTR 4, 5, 6, 12, 13, 14, MAZ 35	SB1835E-2	PCR 1, 2	SB1894E-4	CAT 23, 41
SB1812-21N	FOI 23, FOT 94, 95, 96, 101, GMT 111, 112	SB1835E-3C	CUM 42	SB1899E-1	DET 19
SB1812-3	FOC 63, 69, 75, 76, 82, FOI 8, 9, 10, 14, FOT 43, 47, 49, 50, 55, 57, 58, 59, 60, GMC 78, 84, 85, 95, 96, 108, 119, 120, 122, 123, 124, 125, 133, 135, 139, 141, 144, 150, 155, 157, 163, GMI 2, GMT 23, 35, 51, 52, 59, 67, 68, 70, 71, 76, 78, 94, 95, 96, 97, 123, JON 6, MER 1, 4, 5, 6, 7, 8, 9, 10, OMC 1, 2, 3, 4, 5, 6, 7, 8	SB1841E-1	MAC 10, 11	SB1900E-1	FTR 8, 9, 10, 15, 16, 17, 18, 19, 22, 23, 25, 26, 29, 30
SB1812-4	CAS 23, 33, 34, CHR 44, 82, 83, FOC 53, 66, 86, FOI 6, 7, FOT 44, GMC 71, 72, 73, 74, 75, 76, 77, 82, 83, 90, 91, 100, 153, 184, 185, 199, 201, 208, 210, 215, 220, GMT 20, 21, 29, 34, 122, 126, ISU 20, 22, JON 14, 20, 27, 31, 41, 59, MAZ 53	SB1847E-1	CUM 40, 41, 45, 46, 47, 60, KOM 18, 26	SB1900E-2	FTR 8, 9, 10, 15, 16, 17, 18, 19, 22, 23, 25, 26, 29, 30
SB1812-4N	GMT 133, 135, MER 12, 14	SB1850E-2	HAR 1, 5, 6	SB1900E-3	FTR 16, 25, 30
SB1812-5	CAS 22, CON 38, 39, 57, 60, FOI 1, 2, 3, 4, 5, FTR 11, GMT 37, IHC 27, IHN 3, 4, 5, 6, 10, 11, 12, 14, JON 5, MIN 2, 3, 4, 5, 6, 8, TOI 5	SB1853E-1	CAS 17, 18, 19, 28, 29, CHR 108, CUM 2, 3, 10, GMT 57, KOM 11, 17	SB1912E-1	CAT 29, 30, 34, 35, 53, 54, 62, 63
SB1812-50	KIA 11, MAI 5, MAZ 22, 23, 24, 28, 29, NIS 9, 20	SB1853E-2	CUM 10, KOM 17	SB1919E-1N	JON 73
SB1812-51	HON 96, ISU 16, 18, NIS 47, 48	SB1853E-3	IVE 1	SB1932E-1	VVD 4
SB1812-52	GMC 46, NIS 26, SUB 3, 4, 5, 6, 7, 8, 26	SB1854E-1	ISI 2, ISU 29	SB1933E-2	JON 70, 71
SB1812-54	GMC 47, 48, GMI 1, NIS 27, 28, 29, 36, 37	SB1854E-2	ISI 5, 6, ISU 36	SB1934E-1	DET 16, 17
SB1812-55	FOC 47, FOT 32, GMC 45, 55, 94, GMT 14, INF 7, ISU 13, NIS 10, 50, 51, 56, 57	SB1856E-1	JON 25, 26, 38, 46, 47, 54, 64, 65	SB1937-1	CAS 25, 26, 35, 36, CHR 92, 98, 99, 100, 102, 111, 112, FOC 88, GMC 118, 196, GMT 50, JON 42, 60
SB1812-56	FOC 19, NII 9, NIS 38, 39	SB1856E-2	DET 16, 17	SB1937-12	DET 10
SB1812-5N	CAS 24, GMT 134	SB1857E-1	CAS 39, CUM 28, 29	SB1937-17	GMC 127, 138, 155, 156, 200, 221, GMT 54, 61, 76, 77, 111, 130, 131, JON 68, MER 9, 11, OMC 8
SB1812-7	IHC 23, 25, 26, 29	SB1857E-1T	CAS 39, CUM 28, 29	SB1937-23	FOT 63, 75, 93, 97, 98, GMT 119, 120, 121, IHN 61, 63, 64
SB1812-9N	GMT 133, 135	SB1857E-2	CUM 28, 29	SB1937-51	TOI 10, 13, TOY 78, 79, 81
SB1812E-1	CAT 76, 77, 91, 102, 110	SB1858E-1N	JON 19, 23, 24, 34, 36, 37, 39, 45, 51, 55, 56, 62, 63	SB1937-52	TOY 45, 46, 47, 48
SB1812E-3	CAT 78, 79, 80, 82, 86, 87, 89, 96, 97, 99	SB1874E-2	CUM 44, 49, 54, 55, 56	SB1937-55	CHR 67, 78, FOC 60, FOT 39, GMC 103, 104, 128, 129, 130, 131, GMT 41, 55, 56
SB1812E-4	CAS 40, CUM 36, 37	SB1874E-3	KOM 19, 20, 21, 22, 23	SB1940E-2	IVE 1
SB1812E-4T	CUM 36, 37	SB1874E-4N	KOM 24, 25	SB1946E-1N	CAS 27, 37, 38
SB1812E-6N	CAT 78, 79, 82, 86, 89, 96, 99	SB1875-1	CHI 48, 52, CHM 23, 24, CHR 66, 79, 86, 88, 93, 95, 97, 103, 112, 120, 125, 131, FOC 77, FOT 62, 63, 81, IHC 19, 23, 25, 26, 29, IHN 13, 15, 16, 17, 18, 21, 23, 24, 25, 30, 34	SB1951E-1	JON 77, 78
SB1812E-7	CAT 78, 79, 86, 96	SB1875-11	ALL 28, 29, 34, 35	SB1953E-2C	CUM 51
SB1812E-8	CAT 59, 60, 72, 73	SB1875-19	ALL 19, 20, FTR 20, 28, GMC 125, 126, MFT 18, 20, 24, 28, 29, 30, PER 21, 23, 28, 37, 38, 39, 40, 42	SB1953E-3	CUM 51
SB1812E-9	CUM 38	SB1875-1N	CHR 125, IHN 56, 79	SB1953E-4	CUM 44, 49, 56
SB1813E-1	CAT 78, 82, 86, 89, 96, 99	SB1875-2	CAS 24, CHM 16, FOI 15, 16, 17, 19, 20, 22, FOT 65, 66, 77, 79, 83, 85, GMC 158, 159, HAR 7	SB1953E-4C	CUM 44, 49, 54, 55, 56
SB1814E-1	ALL 30, 31, 32	SB1875-38	FOT 93, 97, 98, IHN 61, 63	SB1957ST	FOT 93, 97, 98, IHN 61, 63, 64
		SB1875-50	FOC 59, 60, 65, FOT 38, 39, 45, LRV 3, MAZ 54	SB1969E-2	HAR 3, 5, 8, 9
		SB1875-51	CHR 33, 48, 49, HYU 20, MAZ 44, MIT 23, 24, 29, 30	SB1969E-3	CAT 24, 43
		SB1875-53	JAG 2, 3	SB1969E-4N	CAT 24, 43, 49
		SB1875-54	CHR 67, 78	SB1973E-1	IHN 85
		SB1875-56	FOC 70, 71, FOT 52, 67, 68, 91	SB1991E-1N	JON 72, 75
		SB1875-56N	FOT 52, 67, 91	SB1999E-1	IHN 59, 71, 81
		SB1875-57	VOL 13, 14, 15, 16, 17, 18	SB2000-1	CHI 41, 42, 43, 44, 50, 51, CHM 18, 20, CHR 43, 85, 98, 99, 104, 112, 113, 114, 115, 117, 121, FOC 69, 76, 82, FOI 11, 13, FOT 50, 56, GMC 162, 165, 169, 170, 171, 172, 196, 203, 204, 207, 211, 214, GMT 99, 134
				SB2000-10	CHI 32, 33, 34, 35, 36, CHM 11, 13
				SB2000-13	CAT 32, 52
				SB2000-14	CUM 53

Application Buyers Guide

SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.	SBI Part #	Manufacturer and Line No.
VALVE SEAT INSERT (Cont'd)		VALVE SEAT INSERT (Cont'd)		VALVE SEAT INSERT (Cont'd)	
SB2000-18	IHC 43, 44, 46, 47, IHN 57, 58	SB2088E-1	MAC 4, 6, 7, 8, 9, 15	SB2388E-2N	CAT 106, 108, 109, 115, 117, 118, 121, 123, 124, 127
SB2000-2	HAR 2	SB2100E-1	CAS 38	SB2435E-1	CAT 93, 104, 113, 119
SB2000-3	CON 59, 62, 63	SB2125-1	CHR 105, 110, 126, FOC 86, FOI 18, FOT 61, 71, GMC 204, 206, 217, GMT 78, 123, IHN 49, 55, 66	SB2435E-2N	CAT 93, 94, 104, 105, 113, 114, 119, 120
SB2000-36	CHR 83, 101, 115, GMC 140, 177, GMT 62, 63, 64, 98, ISU 35	SB2125-10	CHM 16	SB2444E-1	MAC 4, 6, 7, 8, 9, 15
SB2000-3C	IHN 53, 54, 69, 77, 78, 82, 83, 84, 87	SB2125-11	GMT 111, 112	SB2503E-1	CAT 75, 92, 100, 101, 111, 112
SB2000-3N	IHN 53, 54, 69, 77, 78, 82, 83, 84, 87, MER 12, 14	SB2125-2	FOC 87, 93, 96, FOT 72, 87, GMC 169, 171, 202, 203, 204, 205, 212, 213, 217, 219, 225, 226	SB2503E-2	CAT 75, 92, 100, 101, 111, 112
SB2000-50	JAG 3	SB2125-3	GMC 222, IHC 45, IHN 2, 48	SB2506E-1	CAT 75, 92, 100, 101, 111, 112
SB2000-51	CHR 76, 94, MIT 38, 40	SB2125-31	GMC 209	SB2506E-2	CAT 75, 92, 100, 101, 111, 112
SB2000-51PM	CHR 76, 94, MIT 38, 40	SB2125-34	GMC 154, 164, 168, 222, 223, 224	SB2562-1	MIN 7
SB2000-6	CHM 3, 19	SB2125-38	GMC 220, GMT 133, 135	SB2590E-1	CAT 93, 94, 104, 105, 113, 114, 119, 120
SB2000-7	GMC 163, 164, 168, 173, GMT 95, 96, 97, MER 2, 10, OMC 2, 6, 7	SB2126E-2	CUM 28, 29		
SB2001E-1	IHC 48, 49, 50, 52, IHN 60, 62, 70, 73, 74, 75, 76, 80	SB2129E-1	CAT 45, 46, 47, 65, 67, 68, 69		
SB2001E-2	IHC 52, IHN 70, 80	SB2129E-2	CAS 39, CUM 28, 29		
SB2003E-1	CAS 41, CUM 34, 35, 48, 52, 53, 61, KOM 27	SB2131E-1	CAT 45, 46, 65, 67, 69		
SB2003E-1N	CAS 41, CUM 34, 35, 48, 52, 53, 61, KOM 27	SB2136E-1N	JON 72, 75		
SB2003E-3N	CUM 53	SB2136E-2PM	JON 76		
SB2003E-6N	CAS 41, CUM 52	SB2136E-3PM	JON 76		
SB2004E-2	CAT 45, 46, 65, 67, 69	SB2150E-1	CAT 29, 30, 34, 35, 53, 54, 62, 63		
SB2004E-3N	CAT 46, 67	SB2165E-1	HAR 8		
SB2004E-4N	CAT 46, 47, 67, 68	SB2187-13	ALL 33		
SB2006E-1	CAS 41, CUM 34, 35, 48, 52, 53, 61, KOM 27	SB2187-1C	MIN 7		
SB2006E-1N	CAS 41, CUM 34, 35, 48, 52, 53, 61, KOM 27	SB2187-2	CHI 40, 45, 46, 47, 49		
SB2006E-2	CAT 31, 33, 36, 37, 45, 46, 55, 56, 65, 67, 69	SB2187-4	WAU 4		
SB2006E-3N	CUM 53	SB2187-50	CHR 106		
SB2006E-5	CUM 51, 52, KOM 27	SB2187-50PM	CHR 106		
SB2006E-6C	CAS 41, CUM 52, KOM 27	SB2212E-1N	JON 73		
SB2006E-7C	CUM 51	SB2220E-1	FOI 21, 24, 25, FOT 88, 103, 104, 105		
SB2013E-1	ISI 3, 7, ISU 31, 40	SB2250-1	CHI 48, 52, CHM 22, 23, 24, CHR 116, 120, 125, 128, 130, 131, FOC 96, 97, 98, FOI 23, FOT 94, 100, 101, GMC 199, 200, 201, 202, 205, 208, 210, 212, 215, GMT 122, 126, 139, IHN 53, 54, 69, 77, 78, 82, 83, 84, 87, MER 3, 13		
SB2020E-1	ALL 19, 20, MFT 18, 20, 24, 28, 29, 30, PER 21, 23, 28, 37, 38, 39, 40, 42	SB2250-13	BUD 34		
SB2049E-1	CAT 46, 47, 67, 68	SB2250-2	FOC 86, GMT 100, 101, 118, 124, 137, 140, 141		
SB2051E-4	JON 70	SB2250-35	MER 12, 14		
SB2051E-5	JON 71	SB2250-50	GMC 180, 181, 187, 188, 189, GMT 102, 103, 105, 107, 110, 115, 116, 117, ISU 38, 39		
SB2051E-6	VVD 4	SB2250-50PM	GMC 180, 181, 187, 188, 189, GMT 102, 103, 105, 107, 115, 116, 117, ISU 38, 39		
SB2062-1	CHR 104, FOC 85, 89, 91, 92, 94, 95, FOT 76, 78, 84, GMT 75	SB2250-8	CAT 32, 52		
SB2062-23	CHR 133	SB2312-9	GMC 214, 221		
SB2062-29	CAS 27, 37	SB2366E-2N	CAT 107, 116, 122, 130		
SB2062-3	GMT 130	SB2367E-1	CAT 106, 115, 121		
SB2062-30	FOI 23, FOT 95, 96, 101	SB2368E-2N	CAT 106, 108, 109, 115, 117, 118, 121, 123, 124, 127		
SB2062-50	GMT 72, 80, 85, 86, ISU 33, SAB 14	SB2368E-3N	CAT 106, 108, 115, 117, 121, 123		
SB2062-50N	GMT 72, 80, 85, 86	SB2375-2	BUD 34, IHN 41, 42, 43, 44, 50, 51, 52		
SB2062-51	GMC 160, 174, 175, 182, GMT 73, 79, 81, 82, 83, 84, 87, 88, 89, 104, 105, 106, 108, 109, ISU 37, 38, SAB 15	SB2381E-1	CUM 57		
SB2062-51N	GMT 104, ISU 37	SB2381E-1C	CUM 57, 58		
SB2062-51PM	GMC 160, 174, 175, 182, GMT 73, 79, 81, 82, 83, 84, 87, 88, 89, 105, 106, 108, 109, ISU 38, SAB 15	SB2381E-2	CUM 57		
SB2062-52	CHR 106	SB2381E-2C	CUM 57		
SB2062-52PM	CHR 106	SB2387E-1	CAT 106, 115, 121		
SB2062-8	HAR 4	SB2387E-2	CAT 107, 116, 122		
		SB2388E-1N	CAT 108, 117, 123		

Interchange Listing

ACURA		2114117 01701	22873 180-1037	251912 01107
		2114118 02046	231008 180-1012	251920 01216
		2114119 01790	23881 181-1016	251926 01195
12204PJ7305 140-8158		2114121 02054	23882 181-1059	251927 01193
12204PNA305 140-3136		2114122 01901	23894 181-1017	251928 01194
12205P7305 140-8157		2114125 01934	23949 181-1060	251932 01137
12205PNA305 140-3137		2114148 02008	241435 160-1041	251964 01296
12210PZ1004 122-1201		2114149 02009	241445 160-1106	251981 01260
12211PZ1004 122-1202		2114150 01992	241446 160-1216	251993 01285
14711POHA00 10541		2114151 01991	241461 160-1079	252045 01328
14711P8EA00 10778		2114152 01994	241462 160-1072	252075 01170
14711R44A00 13358		2114153 01993	241550 160-1112	252077 01362
14711RYEA00 13336		2114155 01945	241552 160-1103	252103 10031
14721P75000 10196		2114168 01234	24446 160-1118	252105 10015
14721P8EA00 10779		2114169 01233	24471 160-1120	252117 01388
14721PV4000 10546		2114179 02126S	24485 160-1121	252143 01393
14721R44A00 13359		2114180 01999	24510 160-1122	252167X 10037
14781PL2004 121-1054		2114181 01998	24521 160-1125	252168 10048
14781PR7A01 121-1060		2114182 02014	24534 160-1126	252170 01598
14781PRBA02 121-1060		2114183 02015	24624 160-1131	252181 10087
14781RGMA01 121-1060		2114262 13073	24648 160-1135	252187 10061
8971319610 10739		2114263 13074	24653 160-1148	252196 01450
8971319620 10740		212113234 01807	24666 160-1140	252202 01452
AE CLEVITE		212114007 01811	24671 160-1141	252239 10076
		212114122 01901	24673 160-1143	252242 10078
2111752 00759		2121460 160-1464	24677 160-1144	252250 10268
2111935 01358		2121461 160-1575	24690 160-1156	252256 10107
2112582 10276S		213022 190-1221	24704 160-1005	252264 10328A
2112655 10215S		213023 190-1351	24718 160-1004	252269 10214
2113216 01715		213028 192-1229	24721 160-1006	252287 01484
2113218 01735		213036 190-1237	24727 160-1009	252291 01481
2113233 01806		213076 190-1280	24733 160-1024	252300 01528
2113234 01807		213093 192-1331	24743 160-1023	252316 10255
2113247 01913		213103 192-1336	24754 160-1013	252322 10281
2113248 01914		213105 192-1378	24755 160-1019	252337 10105
2113250 00696		213106 192-1377	24760 160-1016	252344 10236
2113251 01194		213112 190-1328	24767 160-1031	252345 10237
2113323 00819S		213160 190-1425	24786 160-1038	252352 10307
2113326 00754		213165 192-1321	24788 160-1025	252365 01505
2113346 01589		213166 192-1399	24799 160-1049	252404 10367
2113347 01663		213167 192-1321	24848 160-1097	252412 10348
2113351 00555		213172 190-1426	24849 160-1096	252416 10406
2113352 00734		213173 190-1349	24867 160-1055	252428 01553
2114001 01741		213174 190-1411	24907 160-1086	252434 01555
2114002 01925		213176 190-1327	24919 160-1054	252439 01273
2114003 01924		213178 190-1385	251060 00302	252443 01569
2114005 01731		213180 192-1330	251076 00308	252448 01536
2114007 01811		213181 192-1338	251115 00373	252497 10322
2114020 01736		213182 192-1339	251128 00376	252501 10310
2114021 01737		213183 192-1322	251285 00494	252502X 10337
2114024 01941		213184 190-1395	251386 00548	252505 10309
2114025 01937		213185 190-1396	251428 00585	252530 01592
2114028 01742		213186 190-1417	251434 00567	252532 10117
2114031 01920		213187 192-1409	251434015 00567+15	252548 01915
2114071 01921		213191 190-1408	251537 00627	252554 10385
2114072 01920		213193 190-1403	251599 00637	252557 01671
2114073 01918		213194 190-1450	251599015 00637+15	252560 10190
2114074 01919		213197 190-1384	251612 00696	252563 10624
2114075 01746		213203 192-1378	251612015 00399+15	252566 10197A
2114076 01745		213204 192-1377	251717 01268	252572 10270
2114077 01936		213205 190-1438	251719 00963	252574 10314
2114078 02044		213206 192-1446	251722 00938	252575 10315
2114079 01785		213207 192-1444	251722015 00938+15	252580 10273
2114080 01786		213209 190-1443	251729015 01120+15	252582 10137
2114084 01931		213232 190-1489	251745 00975	252585 10305
2114087 01587		213233 190-1435	251754 01087	252587X 10339SA
2114095 01916		213241 190-1473	251756 00988	252588X 10473
2114096 01917		213263 192-1480	251773 00969	252608 10118
2114099 01929		213279 190-1509	251775 01457	252611 01673
2114100 01743		213282 192-1484	251785 01001	252613 01726
2114105 01787		213285 190-1433	251798 01082	252615 10162
2114106 01788		2154250 190-1507	251800 01105	252616 10218
2114111 01729		2167099 220-1023	251826 01098	252620 10421
2114112 01728		22810 180-1007	251850 01103	252626 10122
2114113 01708		22869A 180-1040	251880 01172	252630 10172
2114114 01709		22870A 180-1041	251907 01186	252643 10224

Interchange Listing

AE CLEVITE (Cont'd)							
252647	10226	262498	10177	27156267	SB1562-67	285044	140-9205
252649	01736	262500	10311	27156269	SB1562-69	285045	140-9206
252652	10126A	262529	01591	27156272	SB1562-72	28549	140-1839
252659	10498	262533	10116	2715629	SB1562-9	28623	140-1919
252661	10143	262547	10196	271624E1N	SB1624E-1N	28628	140-1733
253919	10207	262553	10386	27162511	SB1625-11	28634	140-1937
253928	10192	262558	01670	2716251N	SB1625-1N	28675	140-7529
253929	01272	262559	10413	2716252N	SB1625-2N	28684	140-7498
253936	10103	262561	10191	2716254	SB1625-4	28688	140-1972
253946	10176	262565X	10198A	2716254N	SB1625-4N	28689	140-1973
253954	01714	262581X	10274S	2716255	SB1625-5	28691	140-7542
253956	01699	262583	10138	27162552	SB1625-52	28697	140-7714
254022	10275	262586	10340A	27162556	SB1625-56	28698	140-7713
261127	00375	262589X	10474	27162558	SB1625-58	28700	140-7662
261351	00185	262607	10153	271630E1N	SB1630E-1N	28701	140-7661
261439	00564	262612	01727	2716400	SB1640E-1	28705	140-7359
261710	00742	262614	10163	2716690	SB1669E-1	28706	140-7523
261755	00919	262619	10420	2716871	SB1687-1	28709	140-7577
261768X	00917SN	262627	10123	27168715	SB1687-15	28710	140-7576
261770	00970	262634X	10220S	27168716	SB1687-16	28711	140-8143
261784	01000	262638	10414	2716871N	SB1687-1N	28713	140-9557
261799	01189	262640	10206	2716872	SB1687-2	28714	140-7575
261849	01102	262641X	10306S	2716874N	SB1687-4N	28715	140-7576
261853	01242	262646X	10227S	27168754	SB1687-54	28721	140-7589
261879	01171	262648	01737	27168755	SB1687-55	28724	140-7828
261893	01237	262653	10128A	27168756	SB1687-56	28729	140-7395
261900	01156	262656	01698	2716876	SB1687-6	28731	140-8021
261904	01192	262660	10144	2716878	SB1687-8	28734	140-7499
261911	01106	263931	00976	2716879	SB1687-9	28737	140-7822
261940	01199	263937	01504	271744E1N	SB1744E-1N	28741	140-7825
261961	01135	263940	01554	2717501N	SB1750-1N	28743	140-7826
261963	01245	263943	01597	2717503	SB1750-3	28746	140-7830
261983	01266	263949	10116	2717503N	SB1750-3N	28747	140-7659
261984	01271	263957	01535	2717504	SB1750-4	28748	140-7710
261989X	01261S	264165X	10215S	2717504N	SB1750-4N	28752	140-8018
261992	01300	264185X	10276S	27175051	SB1750-51	28757008	140-7873
261998	01744	27106250	SB1062-50	27175061	SB1750-61	28758008	140-7873
262030	01169	27112551	SB1125-51	27175068	SB1750-68	28788	140-8201
262032	01320	27118752	SB1187-52	271781E1N	SB1781E-1N	28789	140-8202
262040	01358	27118753	SB1187-53	2718121	SB1812-1	28790	140-8208
262044	01327	27125052	SB1250-52	2718121N	SB1812-1N	28791	140-8038
262061	01354	27125054	SB1250-54	2718122	SB1812-2	28792	140-8147
262076	01361	27131252	SB1312-52	2718124	SB1812-4	28796	140-8233
262104X	10036S	27131253	SB1312-53	2718124N	SB1812-4N	28797	140-8157
262116	01387	27131259	SB1312-59	2718125	SB1812-5	28803	140-8158
262133	01381	2713751N	SB1375-1N	27181250	SB1812-50	28809	140-8273
262135X	01383SN	27137550	SB1375-50	27181251	SB1812-51	28812	140-8211
262153	01312S	27137551	SB1375-51	27181253	SB1812-53	28814	140-8156
262169	01397	27137556	SB1375-56	27181254	SB1812-54	28815	140-8155
262172	01394	2714371	SB1437-1	27181255	SB1812-55	28816	140-8324
262182	10064	2714371N	SB1437-1N	2718125N	SB1812-5N	28817	140-8016
262201	01451	2714372	SB1437-2	2718150	SB1815E-1	28822	140-8218
262203	01814	2714372N	SB1437-2N	2718221N	SB1812-21N	28823	140-8212
262238	10083	2714373	SB1437-3	2718751	SB1875-1	28823	140-8213
262249	10269	2714373N	SB1437-3N	2718751N	SB1875-1N	28824	140-8216
262255	10106	2714374	SB1437-4	27187550	SB1875-50	28825	140-8217
262263	10330A	27143759	SB1437-59	27187551	SB1875-51	28828	140-8204
262265	10060S	27143766	SB1437-66	2718756	SB1875-6	28886	140-8209
262268	10217	27143767	SB1437-67	2719371	SB1937-1	28903	140-8194
262282X	01483S	2715002	SB1500-2	27193751	SB1937-51	28904	140-8193
262290	01480	27150050	SB1500-50	27193752	SB1937-52	28910	140-8219
262299	01527	27150054	SB1500-54	2720001	SB2000-1	28911	140-9557
262325	10256	27150062	SB1500-62	2720621	SB2062-1	28917	140-8291
262326	10271	27150063	SB1500-63	2721251	SB2125-1	28927	140-8142
262330	10282	27150071	SB1500-71	2721252	SB2125-2	295002T	140-9259
262334X	10102S	2715160	SB1516E-1	2722501	SB2250-1	295004T	140-9116
262336	10105	2715621	SB1562-1	28130	140-1342	295005T	140-9607
262355	10308	2715622	SB1562-2	28326	140-1421	295006T	140-9606
262366X	10193	2715622N	SB1562-2N	28336	140-1515	295007T	140-9298
262403X	10367	2715623	SB1562-3	28338	140-1504	295009T	140-9869
262411X	10349S	27156236	SB1562-36	28350	140-1527	295016T	140-9198
262449X	01646S	2715625	SB1562-5	28419	140-1337	311009	180-1059
262477R	01769R	27156250	SB1562-50	28420	140-1338	34115	121-1021
262496	10323	27156251	SB1562-51	28428	140-1614	34144	121-1011
		27156254	SB1562-54	28460	140-1704	34157S	161-1012
		27156266	SB1562-66	28473	140-1732	34165	121-1019

Interchange Listing

BMW (Cont'd)	J904409 140-8178	1337029 01581S	1845495 140-3036
11341738218 10695	J915506 01667	1339306 140-8679	1850882 140-3059
11341738219 10696S	J920867 01665	1339746 SB1812E-6N+010	1862001 161-1047
11341739820 10695	J920868 01664	1339747 SB1812E-6N+020	1883122 02261
11341739821 10696S	J921444 01666	1360819 01579S	1888633 140-3105
	J924492 01667	1369630 SB2387E-1	1888636 SB1518E-1
	VT131 140-1673	1376718 160-1454	1888637 SB1782E-2
	VT3232 00269	1376856 122-1302	1888640 13143
BUDA	VT3233 00268	1381997 SB1711E-1C	1906115 160-1577
4513354 140-1852	VT3372 160-1223	1381999 SB1812E-8	1906117 160-1572
B101 00310	VT366 140-1872	1382006 SB1812E-8	1916760 SB2368E-2N
B281 00311	VTA2634 00269	1382050 05002S	1916766 140-3139
	VTA2635 00268	1382052 05001	1920509 01911
		1382053 VL549	1926335 122-1475
CASE	CATERPILLAR	1406188 160-1453	1929213 01582S
251103R1 140-4944	0676834 121-1018	1409670 140-3038	1944897 02168S
251261R3 00485	1004626 05000	1456855 13136	1944901 160-1461
3900250 121-1079	1007860 01760S	1456856 122-1395	1944902 160-1460
4761971 VL156	1007861 01761S	1456857 13219	1976995 140-3042
5619A 140-1577	1007861 01761S	1456858 122-1397	1976999 161-1069
57765H 140-1458	1008150 140-8592	1457390 02161S	1977006 122-1302
6321A 140-1829	1017788 170-1014	1471979 121-1118	1977055 121-1095
6529A 140-1830	1018314 01632S	1478211 02160S	1977062 161-1067
675574C3 01520	1026229 122-1373	1478214 122-1364	1977063 161-1068
8744 140-4941	1026229N 122-1373	1478218 SB1814E-4C	1986529 SB1687E-4N
A11801 00678	1031800 161-1018	1478220 140-3039	1992189 122-1498
A11802 02084	1032454 160-1606	1487425 140-3037	1N4885 01146S
A11803 140-1865	1032782 160-1514	1487455 01761S	1N4886 01146S
A150225 01650S	1036304 01911	1487502 140-3037	1N4995 KL1840A
A182172 01826	1039247 140-3097	1511329 140-8485	1P1081 01145S
A182173 01650S	1039260 122-1116	1511330 140-3138	1P2629 01145S
A21712 00678	1045536 240-1006	1516235 140-3174	1P407 01146S
A21713 02084	1047184 01584S	1527582 SB1687E-1N	1P6837 SB2004E-2
A24910 02084	1051779 01579S	1527585 01912	1S2894 SB1505E-1
A27872 121-1049	1054232 240-1004	1528380 01911	1S2895 SB1442E-2
A29954 140-1673	1061111 01468S	1529857 13142	1S2898 121-1011
A29954 140-1873	1070265 SB2004E-3N	1529858 160-1502	1S2903 01350S
A29955 140-1872	1070268 SB2049E-1	1529860 121-1093	1S5738 SB2435E-2N
A30025 160-1223	1085902 01462S	1535554 122-1465	1S6653 140-7338
A30270 140-1673	1085910 01911	1535556 121-1146	1S6654 140-6469
A30438 00268	1085911 01912	1535558 160-1638	1S8143 01351S
A38422 00691	1085912 SB1891E-1	1535559 122-1464	1S9910 140-7338
A38423 00690	1090390 140-3037	1537023 01911	1W1801 SB2367E-1
A41726 00691	1136180 01580	1537024 01912	1W1816 140-7604
A41727 00690	1152358 SB1812E-7	1540888 13326	1W1817 01459S
A41753 01511	1152367 01468S	1540889 13327	1W1818 01459S
A41754 01512	1152368 01462S	1559504 SB1656E-1	1W1819 01458S
A41783 140-7444	1161102 240-1005	1564168 SB1891E-1	1W1822 01460S
A4355A 140-1814	1167553 140-3037	1578373 240-1003	1W2713 SB1693E-8N
A58619 SB1946E-1N	1185669 140-3007	1590300 240-1003	1W2715 121-1079
A58626 01512	1189491 SB2366E-2N	1605436 140-3063	1W3359 01498S
A58627 01511	1193036 122-1299	1605438 140-3064	1W3859 01462S
A66191 SB2100E-1	1193061 240-1002	1614280 02231	1W3860 01468S
A66192 SB1946E-1N	1196772 01497S	1614485 140-3105	1W4259 160-1198
A66193 01826	1212028 01804	1621589 140-3037	1W5283 SB1687E-1N
A66336 161-1003	1219835 01805S	1632442 02260S	1W5300 161-1018
A66444 160-1226	1219839 01805S	1632444 140-3058	1W5321 SB2004E-2
C5549A 140-1813	1220321 01831S	1632478 122-1373	1W5849 122-1398
F600I235 140-1515	1220322 01830S	1639063 SB1969E-4N	1W8606 01461S
G11711 00268	1225963 SB2368E-3N	1639256 140-3060	2033237 140-3058+5
G11719 00268	1227352 SB1812E-6N	1662903 240-1006RT	2061541 140-3140
G11947 00691	1227353 01857S	1662904 240-1006RM	2061542 140-3140+10
G11948 00690	1227374 140-3014	1663739 240-1006	2061543 140-3140+20
G11961 00682	1227375 140-3007	1665944 140-8679+5	2061544 140-3139+10
G11962 00683	1228612 140-3007+5	1737188 140-3145	2061545 140-3139+20
G176I200 140-1833	1233984 140-8485	1753617 SB1891E-1	2064127 160-1498
G2033 140-1873	1240811 240-1003	1757523 160-1464	2064442 SB2388E-1N
G2068 140-1875	1242692 01582S	1757526 160-1575	2102529 01805S
G2069 140-1874	1242693 01581S	1763134 05003	2102542 01804
G46241 00682	1302607 SB2387E-2	1763137 05004	2113122 160-1464
G46242 00683	1302608 SB2366E-2N	1763139 160-1499	2113123 160-1575
G47110 00691	1302613 140-8679	1799453 SB1711E-1C	2120932 02259S
G47111 00690	1309004 SB1969E-4N	1799454 SB1812E-8	2120933 02258S
J901187 140-8122	1314340 SB2366E-2N	1838172 140-3192	2120936 SB1687E-5C
J904408 140-8177	1323214 140-8592	1838173 140-3193	2128474 SB1894E-4
	1336997 SB1711E-1C	1845494 140-3035	2128477 13393

Interchange Listing

CHRYSLER (Cont'd)							
4648615AC	01991	5011878AA	121-1097	5203472	SB1687-51	53022088AB	13195
4648619	122-1251	5011879AA	02014	5203577	121-1052	53022088AC	13195
4648635	140-8555	5011880AA	122-1334	5203789	140-7429N	53022088AD	13195
4648684	160-1377	5011881AA	122-1335	5203792	SB1500-63	53022089AD	160-1642SSA
4648701	180-1321	5011892AA	190-1554	5214861	01449	53022090AB	122-1425
4648701AB	180-1321	5015552AA	190-1530	5214866	01448	53022277AA	121-1093
4648702	180-1320	5037372AB	13206	5240925	140-7359	53041123	190-1522
4648702AC	180-1320	5037373AB	13207	5245590	VL106	600746	140-1337
4648907AA	160-1426	5037382AB	160-1627	53005771	122-1232	6007461	140-1338
4663002	122-1254	5037382AD	160-1627	53005772	122-1232	630356	00122
4663345	01712	5037475AB	190-1552	53005863	01781	630357	00121
4663347	01713	5037475AC	190-1552	53005864	01782	637182	00122
4663722	121-1082	5037476AB	190-1551	53006673	140-8494	637183	00121
4663801	160-1352	5037476AC	190-1551	53006677	SB1687-5N	646421	00302
4663836	01901	5037477AC	160-1628	53006722	190-1525	6503560	220-1072
4663899	01920	5037477AD	160-1628	53006723	01714	6503561	220-1074
4663902	01921	5037798AA	122-1423	53006724	01715	6503562	220-1074
4663904	122-1327	5038784AB	VL555LA	53006986	01556	6504033	220-1083
4663985	VL171	5038784AC	VL555LA	53008282	180-1313	6504329	220-1086
4667124	01730	5038785AB	VL556LA	53008514	VL106	68002237AA	13006
4667129	01731	5038785AC	VL556LA	53009173	VL106	68080909AA	160-1642SSA
4667139	180-1324	5038785AD	VL556LA	53009270	01556+15	68080909AB	160-1642SSA
4667140	VL173	5038786AB	VL557LA	53009886	122-1204	68210104AA	122-1477
4667411	140-8556	5038786AC	VL557LA	53009887	122-1205	68299764AA	160-1484
4667807	01730	5038786AD	VL557LA	53010388	160-1483	711045	00210
4667810	01731	5045515AA	190-1549	53010512AA	01916	741568	00121
4667969	01730	5045516AA	190-1550	53010513AA	01917	802639	00303
4667969AB	02008	5047068AA	13190	53010515AA	121-1083	8122755	01260
4667972	01731	5047068AB	13190	53020556	160-1483	8122756	01258
4694185	140-8177	5047069AA	13191	53020586	VL106	8122761	01325
4694222	01904	5047069AB	13191	53020742AC	180-1335	8122929	VL89
4694224	01905	5047446AA	13401	53020747AB	01918	8127694	01258
4713216	01665	5047447AA	13402	53020748	01919	8132229	01814
4713439	VL106	5047452AA	121-1140	53020749AB	160-1432	8134392	01814
4713994	01664	5047453AA	122-1467	53020749AC	160-1432	8350066	VL89
4740269	VL89	5047497AA	160-1680	53020752AB	122-1344	83500739	01395
4740353	190-1530	5047498AA	160-1682	53020752AD	122-1344	83500740	01395
4777050	121-1086	5047564AA	13400	53021056	160-1378	83500743	01394
4777050AB	121-1087	5047917AA	13461	53021077	VL107	83500766	VL94
4777050AC	121-1087	5048005AA	160-1681	53021550AA	02103	8933003516	01556
4777535	160-1377	5048022AA	13462	53021551AA	02220	8933003576	01557+15
4777555	160-1347	5048025AA	122-1442	53021551AB	02220	8933003575	01556+15
4777898AA	02009	5073735AA	02234	53021556AA	190-1544	8933003860	01556
4777976AA	VL173	5073738AA	02235	53021556BB	190-1549	925437	00210
4781025AA	01993	5080042AA	SB1218E-1	53021557AA	190-1545	954302	00185
4781029AA	01994	5080043AA	SB1175E-1	53021557BB	190-1550	994946	00302
4781029AB	01994	5080044AB	140-3098	53021571AA	02036	994969	00302
4781030AA	121-1089	5080054AA	160-1528	53021578AA	122-1354	AW321739	10625
4781072AB	122-1350	5080057AA	122-1360	53021580AB	160-1450	J3189833	VL89
4781588AA	160-1443	5086290AA	122-1360	53021580AE	160-1450	J3218976	122-1031
4781588AB	160-1443	5086736AA	VL565	53021644AA	02036	J3218976	122-1075
4781588AC	160-1443	5086861AA	122-1370	53021644AC	13252	J3222276	VL89
4792295	180-1322	5086862AA	122-1371	53021720AB	VL555LA	J3224598	01326
4792295AB	180-1322	5117399AA	13073	53021720AD	VL555LA	J3228192	160-1023
4852361AA	02035	5117402AA	13074	53021726AD	VL556LA	J3229657	01258
4852411AA	02034	5117403AA	160-1529	53021726AE	VL556LA	J3237464	01441
4882061	160-1379	5117407AA	SB1160E-1	53021726BB	VL556LA	J3237465	01442
4882220	140-8219	5117410AA	SB1088E-1	53021726BC	VL556LA	J3240767	01441
4884042AA	180-1324	5140913AA	13161	53021728AD	VL557LA	J3240768	01442
4884690AA	02009	5159009AA	122-1251	53021728AE	VL557LA	J3241709	190-1455
4884691AA	02008	5175396AA	13356	53021728BB	VL557LA	J3242659	01479
4884726AA	121-1060	5175397AA	13357	53021728BC	VL557LA	J3242664	122-1037
4892094AA	01713	5175398AA	160-1639	53021775AA	160-1612	J3242864	122-1047
4892094AB	01713	5175399AA	121-1098	53021775AC	160-1612	MD000441	SB1562-50
4892292AA	122-1254	5175402AA	160-1640	53021873AA	160-1614	MD000461	140-7576
4892465AA	VL560	5175438AA	122-1456	53021887AA	160-1612	MD000471	140-7577
4892674AB	122-1363	5175440AA	VL561	53021894AA	VL562	MD000480	10076
4892820AB	121-1098	5184060AN	160-1656	53021913AB	180-1335	MD000481	10083
5003595AA	VL156	5184127AC	13263	53021916AA	02036	MD002465	SB1375-51
5011441AA	160-1484	5184128AD	13264	53021916AB	02036	MD002481	10083
5011441AB	160-1484	5184128AE	13264	53021974AA	122-1344	MD007783	10083
5011455AA	161-1081	5184168AB	122-1442	53021990AA	13251	MD016445	140-7589
5011790AA	VL554	5184296AE	180-1332	53021994AA	160-1609SSA	MD016483	121-1031
5011877AA	02015	5184296AF	180-1332	53022087AA	13194	MD016490A	122-1114
		5184296AH	180-1332	53022087AB	13194	MD020551	140-7574
		5184332AA	VL561	53022087AC	13194	MD020561	140-7575

Interchange Listing

CHRYSLER (Cont'd)					
MD020580	10065	MD191384	SB1375-62	Z120T161	00489
MD020583	10064	MD193862	SB1437-59	Z129I108	00486
MD020587	10064	MD195450	180-1207	Z129I204	140-1717
MD020588	10064	MD197467	122-1086	Z129I205	00343
MD022591	160-1031	MD300702	140-8554	Z129I208	00486
MD024414	SB1750-61	MD301193	10534A	Z129T107	00486
MD024441	SB1500-62	MD301640	SB1562-69	Z129T117	00343
MD024546	SB1625-56	MD301712	SB1750-61	CORTECO	
MD024547	SB1625-56	MD301714	SB1562-69	10001	122-1043
MD026514	SB1875-51	MD303177	10535A	10046	122-1067
MD026515	SB1875-51	MD306183	10535A	10052	122-1203
MD026517	SB1625-56	MD307235	140-8569	10105	122-1079
MD026518	SB1625-56	MD307342	122-1253	10125	122-1077
MD030164	SB1312-53	MD307343	122-1114	10132	122-1199
MD040539	10064	MD324101	140-8193	10139	122-1136
MD061895	121-1039	MM115880	160-1079	10147	122-1132
MD070691	10141	MN183950	13191	10151	122-1116
MD070693	10142	MN187696	13190	10155	122-1141
MD070694	10142	CONTINENTAL		10170	122-1125
MD072177	VL141	1005916M1	140-1673	10176	122-1089
MD073398	160-1079	1019739M1	140-1833	10183	122-1330
MD075924	10127	1019742M1	13105	10185	122-1053
MD075925	10127	1019743M1	13106S	10234	122-1201
MD075927	10129	1750069M1	140-1717	10235	122-1202
MD083848	10145	1751518M1	00234	10237	122-1149
MD083850	10146S	1751519M1	00234	10239	122-1142
MD083851	10146S	200131	00196	10241	122-1215
MD083887	10141	830762M91	140-1833	10242	122-1216
MD085253	10143	830935M91	140-1673	10246	122-1232
MD085254	10144	83490M91	140-1717	10249	122-1328
MD088811	10624	840210M91	140-1620	10269	122-1077
MD088812	10625	CVT03234	121-1003	10274	122-1052
MD093714	VL141	D600I233	140-1470	10275	122-1232
MD108465	SB1312-53	F140A216	SB1348E-1N	10276	122-1202
MD108468	SB1375-51	F400I213	140-1620	10277	122-1205
MD108471	SB1500-75	F400I251	140-1962	10282	122-1150
MD110451	SB1562-69	F400T296	00170	10286	122-1252
MD115472	122-1114	F600I112	00810	10287	122-1254
MD117726	SB1312-64	F600I228	00170	10298	122-1139
MD119254	SB1437-63	F600I229	00810	10304	122-1086
MD121489	SB1437-68	F600I235	140-1515	10306	122-1230
MD124739	VL135	F600I238	00196	10318	122-1158
MD126605	140-8193	F600I242	00170	10333	122-1260
MD126608	140-8194	F600I244	00196	10334	122-1323
MD127840	10126A	F600I248	00210	10338	122-1263
MD127841	10128A	F600I249	00210	10339	122-1262
MD128114	SB1562-69	F600I265	140-1515	10340	122-1159
MD128434	10495	F600I302	01148	10342	122-1075
MD128435	10496	F600I351	00170	10344	122-1236
MD135479	10500	F600I352	00196	10348	122-1088
MD135480	10501	F600I353	01693S	10349	122-1285
MD136125	SB1437-59	F600I354	00210	10350	122-1073
MD139755	10497	F601I303	01147	10352	122-1069
MD148418	SB1125-52	G193I210	140-1970	10360	122-1127
MD148420	SB1312-62	G193I302	00867	10361	122-1163
MD148422	SB1437-61	G193I303	01055	10364	122-1198
MD149309	VL135	N62I200	140-1678	10365	122-1217
MD151369	121-1096	TM27I00316	140-1962	10366	122-1218
MD151382	VL141	TM27I00504	13016	10372	122-1147
MD159502	10534A	TM27I00505	13017	10373	122-1155
MD162422	10498	TMD27I00501	13019	10374	122-1200
MD162423	10499	TMD27I00502	13018	10380	122-1119
MD168421	10501	TMD27I00505	13019	10381	122-1237
MD169655	SB1312-64	VT131	140-1673	10391	122-1187
MD169831	SB1437-73	Y400I205	121-1010	10392	122-1136
MD172315	10500	Y400I209	140-1619	10393	122-1130
MD172530	140-8571	Y400I215	160-1401	10395	122-1189
MD172535	SB1187-51	Y400I232	140-1619	10402	122-1325
MD183893	SB1187-54	Y400I332	01365	10510	122-1357
MD184303	122-1252	Z120I203	00234	26001	VL109
MD185569	10535A	Z120I326	00489	26003	VL86
MD185850	140-7577	Z120T123	00234	26005	VL116
MD188579	SB1250-59	Z120T142	00234	26007	VL113
MD189240	SB1250-60	Z120T157	00234	26028	VL149
CUMMINS					
				111446	160-1306
				118939	187-1051
				123542	00603
				123558	187-1052
				123659	00602S
				127554	121-1006
				127930	SB2003E-1N
				127930A	SB2006E-1N
				127930B	SB2006E-1N
				127931	SB2006E-1N+010
				127932	SB2006E-1N+020
				127935	SB2006E-1N+005
				135957	00603

Interchange Listing

CUMMINS (Cont'd)							
145701	00602S	3054601	SB2006E-5+010	3418021	01662SNR	3818520	01531
146731	160-1424	3062096	187-1068	3418040	SB1812E-4	3820180	SB1812E-4
154390	SB1691E-2	3064281	122-1239	3418052	SB1812E-4T	3820700	SB1812E-4T
154391	SB1691E-2+010	3064312	140-8134	3606766	122-1374	3883287	01658S
154946	140-8420	3065900	01662SNR	3606856	01720S	3884005	01720S
156641	122-1362	3065934	160-1641	3629006	160-1176	3895110	01662SNR
169630	240-1008	3065936	161-1045L	3629007	160-1641	3895477	01531
174213	140-7990	3068519	01660	3630628	160-1641	3895478	01658S
174214	140-6452	3068828	01663	3631950	13427	3895860	160-1414
195000	SB1691E-1	3069672	01661S	3633840	160-1641	3900250	121-1079
195001	SB1691E-1+010	3069692	SB2006E-7C	3640315	161-1045L	3900276	160-1348
196641	240-1009R	3070159	01662SNR	3643725	160-1641	3901097	122-1053
200354	SB2003E-1	3070174	160-1414	3678536	240-1030R	3901117	01665
205091	121-1069	3070212	140-8210	3679537	SB1874E-2	3901177	121-1073
205093	SB2381E-2C	3070460	160-1302	3679551	160-1479	3901178	122-1243
205208	160-1176	3070473	01659S	3679659	SB1874E-2	3901187	140-8122
207241	01534	3070484	121-1076	3679978	121-1091	3901607	01664
2105293	140-1823	3070486	240-1009	3680759	02263S	3901898	190-1530
211999	160-1177	3071147	240-1010	3680760	02262	3902253	01667
212217	SB2000-14	3072321	140-8134+10	3680867	140-3061	3902254	01666
212940	SB2003E-3N	3072369	121-1076	3680873	240-1030	3904105	SB1722E-1
216707	00703	3073509	122-1241	3680883	121-1091	3904364	190-1530
218847	01721S-OEM	3073510	122-1241	3681001	160-1479	3904388	SB1857E-1
219091	161-1072L	3073511	140-8210	3681071	SB1953E-4	3904408	140-8177
2869832	SB1835E-4	3073512	140-8210	3683349	SB1874E-2	3904409	140-8178
2869887	13472	3076515	SB1953E-2C	3685966	240-1048	3904679	190-1530
2881836	13427	3078399	01659S	3685996	13308	3904716	SB1857E-1
2884750	SB1756E-2C	3080975	01663	3685997	122-1448	3906206	140-8277
2887954	13473	3080976	01662S	3686661	13309S	3906412	160-1592
2887957	SB1756E-1	3081081	161-1045L	3686883	240-1048RTR	3906854	SB1853E-1
2892034	13474	3081212	160-1305	3686961	240-1048	3907240	VL156
3000926	00603	3083991	01847S	3687210	240-1030R	3908055	160-1669
3006456	140-7994	3084020	SB1953E-3	3800340	02188	3908830	SB2129E-2
3006457	140-7264	3084041	SB1953E-2C	3800341	02187	3915506	01667
3007225	01533S	3084045	01756	3800636	01663	3915707	122-1243
3007759	240-1009R	3084980	01847S	3800637	01662S	3916587	160-1669
3011934	240-1009	3086193	SB2381E-1C	3800638	01663	3916588	160-1669
3011935	240-1010	3086436	00602S	3800639	01662SNR	3916691	160-1650
3013331	187-1062	3088389	01734	3800891	01847S	3919038	122-1243
3017759	SB2003E-1	3088391	01533S	3801356	01532	3920867	01665
3018818	140-7373	3088393	01534	3801357	01531	3920868	01664
3020211	SB1853E-2	3088978	SB1812E-4	3802005	01665	3921444	01666
3021693	140-7610	3088980	SB1812E-4	3802006	01664	3921640	122-1269
3024333	00602S	3090372	140-8496	3802083	01667	3922713	02257
3024395	01533S	3090703	SB1812E-9	3802085	01666	3922714	01862
3026296	SB2381E-1	3090704	SB1812E-9	3802275	01667	3922715	SB1853E-2
3028070	SB1812E-4	3104445	SB1953E-4	3802355	01665	3922716	SB1722E-3
3028071	SB1812E-4+010	3166410	01847S	3802356	01664	3923262	190-1530
3028072	SB1812E-4+020	3170135	140-8496	3802463	01667	3923564	140-8122
3028073	SB1812E-4+030	3201311	140-7610	3802481	01801	3924492	01667
3029333	00602	3202210	140-7610	3802658	02257	3924582	SB2129E-2
3031098	SB2381E-1+010	3226064	01656S	3802659	01862	3924583	SB1857E-1
3032285	SB2006E-1	3226068	01721S-OEM	3802812	02255	3925031	VL156
3032287	SB2006E-1+010	3275354	121-1027	3802813	02254	3925175	01801
3032288	SB2006E-1+020	3275355	01420S	3802924	02014	3925176	SB1722E-1
3032289	SB2006E-1+030	3275356	01420S	3802967	02015	3925177	SB1853E-1
3032291	SB2006E-1+005	3278173	140-8420	3803310	01663	3925272	160-1629
3033232	160-1304	3281508	VL156	3803311	01662SNR	3925273	161-1075
3033233	160-1303	3284377	190-1530	3803348	01658S	3925666	161-1073
3033234	01532	3328781	122-1241	3803360	01660	3925667	160-1459
3033235	01531	3328785	140-8210	3803427	01659S	3925863	140-3068
3033314	140-7625	3328786	140-3008	3803512	00603	3926700	160-1379
3034827	01734	3394111	122-1437	3803515	01534	3927254	02255
3035026	240-1011R	3394115	140-3158	3803518	01738S	3927255	02254
3035110	01533S	3395612	SB1722E-3	3803519	00602	3927256	SB2126E-2
3035996	160-1305	3406657	01659S	3803519	00602S	3927257	SB1857E-2
3036934	187-1067	3406659	00602S	3803524	00602S	3927642	122-1243
3040830	00602	3406702	240-1009	3803528	01734	3928174	SB1857E-1T
3050369	140-7994	3412352	240-1030	3803529	01533S	3929005	SB1857E-1
3052819	SB2381E-1C	3417713	01658S	3803726	01661S	3930057	122-1391
3052820	01738S	3417714	01662SNR	3803770	01659S	3931623	VL156
3054590	SB2006E-5	3417715	01662S	3803854	01756	3932453	160-1527
3054591	SB2006E-5+010	3417717	240-1011	3803995	01531	3933088	SB1857E-2
3054600	SB2006E-5	3417778	01663	3803996	01658S	3940123	121-1097
		3417779	01662S	3804555	01847S	3940152	SB1554E-1
		3418020	01663	3807730	01662SNR	3940153	SB1554E-2

Interchange Listing

CUMMINS (Cont'd)							
3940279	160-1689	4944492	SB1775E-3	2111094	00298	2111867	00658
3940734	02015	4945025	SB1538E-2	2111129	00159	2111868	00659
3940735	02014	4955212	13006	2111141	00234	2111885	00375
3941253	190-1554	4955239	01663	2111142	00230	2111899	01072
3942299	SB1375E-2N	4957806	160-1406	2111152	00318	2111900	00958
3942565	VL554	4965868	02262	2111161	00220	2111905	00746S
3942571	122-1335	4965891	160-1479	2111162	00302	2111912	00918
3942572	122-1334	4981794	13162	2111187	00249	2111915	00742
3942588	02188	4981795	13163	2111190	00313	2111925	00917SN
3942589	02187	4982846	140-3181	2111194	00311	2111932	00947
3942645	140-8715	4982847	SB1775E-3	2111195	00257	2111933	01266
3942989	122-1335	4982895	13384	2111203	00326S	2111933.015	01266+15
3943161	160-1683	4982898	121-1134	2111206	00343	2111934	00963
3943198	161-1081	4982899	122-1472	2111225	00485	2111935.015	01358+15
3943449	SB1375E-1	4982907	13383	2111226	00349	2111936	01268
3943450	SB1375E-2N	4982908	SB1538E-2	2111251	00319	2111937	00549
3943888	122-1439	4982909	13388S	2111264	00376	2111938	01234
3943889	122-1439	4986317	13427	2111280	01193	2111940	01306
3944711	160-1689	4991571	122-1477	2111280.003	01193+3	2111941	01233
3945249	140-8715	5253590	122-1439	2111280.015	01193+15	2111943	01305S
3945438	122-1334	5259419	13163	2111283	00411	2111944	00975
3945866	VL572	5259420	13162	2111292	00308	2111945	00602S
3947759	VL565	5278913	01756	2111295	00312	2111947	00976
3948102	140-8715	5292625	160-1592	2111299	00310	2111948	00969
3948578	122-1439	5303406	160-1683	2111305	00270	2111949	00970
3955393	122-1370	5316172	160-1689	2111313	00486	2111952	01002
3955394	122-1371	66890	140-1969	2111325	00348	2111963	01332
3957912	122-1365	69965	SB1847E-1	2111330	01036S	2111964	00949
3957914	161-1073	70671	00326S	2111360	00428	2111965	01329
3968074	SB1554E-2	80610016	SB2006E-6C	2111375	00598S	2111966	00938
3968183	13161	80610017	01721S-OEM	2111378	00494	2111966.015	00938+15
3969637	13163	80610018	140-7990	2111401	01192	2111967	01177S
3969704	SB1554E-1	90210008	01656S	2111487	00427S	2111970	01120
3970278	SB1857E-1T	90210011	161-1072L	2111521	00793	2111974	01164
3970727	13162	90210012	160-1406	2111549	00303	2111975	01047
3979602	13006	90210013	01721S-OEM	2111558	00100	2111977	00974
3991085	160-1592	90210014	SB2003E-6N	2111562	00121	2111980	01107
3991267	122-1439	90210014	SB2006E-6C	2111563	00122	2111982	01048
4000643	122-1471	93914H	121-1006	2111584	00155	2111983	01288
4003965	122-1374	C42336	01721S-OEM	2111588	00810	2111992	01289
4003966	122-1374	C620411440	SB1538E-2	2111589	00170	2111993	00989
4007179	13447	C6204191310	140-3181	2111591	00185	2112001	01106
4007180	13448S	C6204414210	13384	2111592	00154	2112010	00912
4026657	140-3061	C6204414520	121-1134	2111625	00520	2112011	01000
4026660	122-1448	C6204414541	122-1472	2111628	00585	2112014	01457
4026791	122-1448	C6207111431	SB1775E-3	2111634	00531S	2112016	01001
4059215	SB1953E-4	C6207414130	13383	2111635	00530SN	2112022	00988
4059216	02262	C6209414210	13388S	2111654	00548	2112023	01188
4059326	02262			2111656	00514	2112024	01082
4059327	02263S			2111657	00518	2112025	01189
4062870	161-1072L			2111658	00550	2112026	01105
4062872	160-1406			2111679	01206S	2112028	01073
4063086	01721S-OEM			2111694	00560	2112032	01152
4089089	13447			2111695	00559S	2112033	01133S
4089090	13448S			2111700	00567	2112034	01148
4089672	13161			2111701	01265	2112035	01147
4089761	13162			2111702	00504	2112044	00924
4089762	13163			2111703	00503	2112045	00923
4101454	02263S			2111705	00564	2112047	01156
4311992	13471			2111717	01075S	2112048	00997
4312008	122-1448			2111718	00593	2112049	00996S
4352542	13474			2111719	00592	2112052	01098
4356366	122-1463			2111744	00600	2112055	01037
4374017	SB1835E-3C			2111746	00601	2112066	01084
4393425	SB1953E-4C			2111774	00609	2112067	01083
4429408	140-8177			2111775	00608	2112069	01093
4429409	140-8178			2111802	00691	2112072	01195
4761971	VL156			2111803	00690	2112072.003	01195+3
4891226	VL565			2111810	00678	2112072.015	01195+15
4923471	140-3008			2111811	02084	2112073	01097
4926069	01663			2111830	00627	2112075	00489
4934063	140-8715			2111834	00373	2112076	01172
4936076	160-1689			2111836	00637	2112080	01137
4936080	160-1683			2111836.015	00637+15	2112080.015	01137+15
				2111861	00758	2112082	01170
				2111863	00759	2112082.015	01170+15

Interchange Listing

DANA/PERFECT CIRCLE (Cont'd)							
2112085	01307	2112317	10070	2112508	01526	2112708	01546
2112087	01171	2112320	10069	2112509	01525S	2112709	01545
2112089	01169	2112323	01362	2112512	01523S	2112710	10145
2112089.015	01169+15	2112324	01361	2112513	01524	2112711	10146S
2112096	01087	2112327	10061	2112514	01450	2112712	01305S
2112099	01135	2112328	10060S	2112536	01018	2112715	01578S
2112099.003	01135+3	2112333	01365	2112537	00400	2112717	01235S
2112099.015	01135+15	2112334	10087	2112547	01042	2112718	10129
2112104	01238	2112336	01357	2112548	01041	2112719	10127
2112104.015	01238+15	2112337	01432	2112549	01442	2112720	01551
2112105	01237	2112338	01431S	2112550	01441	2112722	01569
2112105.015	01237+15	2112340	10056	2112551	01455	2112724	02057
2112106	00883	2112346	01388	2112552	01456	2112725	02058
2112107	00882A	2112347	01387	2112554	01482S	2112726	01711
2112111	00982S	2112347	01387	2112555	10370S	2112727	01710
2112112	00983	2112348	01381	2112555	10370S	2112727	01710
2112113	01210	2112349	01382	2112556	10367	2112728	01389
2112117	01199	2112350	01383SN	2112559	01507	2112731	01646S
2112119	01212	2112351	00852S	2112560	01506S	2112734	01674
2112120	01103	2112352	00574S	2112561	01543	2112735	01673
2112121	01102	2112355	01423	2112562	01542	2112736	01726
2112127	01179	2112356	01422S	2112563	10268	2112737	01727
2112128	00922	2112357	01393	2112565	10269	2112738	01591
2112129	00921	2112358	00752S	2112570	10255	2112739	01536
2112131	01160	2112359	00751S	2112571	10256	2112740	01535
2112132	01161	2112360	01399	2112579	10271	2112742	01592
2112133	01215	2112361	01384S	2112580	10270	2112746	10104
2112136	01216	2112364	01814	2112581	10275	2112747	10105
2112141	01261S	2112366	01380	2112582	10276S	2112748	01532
2112142	01180	2112366.015	01380+15	2112583	10281	2112749	01531
2112146	01186	2112367	01385SN	2112584	10282	2112752	01204
2112147	01326	2112368	01386S	2112587	10106	2112753	01203
2112148	01273	2112369	01367	2112588	10107	2112756	01402
2112149	01257	2112369.015	01367+15	2112589	10176	2112757	01376S
2112150	01258	2112370	10406	2112590	10177	2112758	00867
2112151	01325	2112402	10076	2112591	10308	2112759	01055
2112152	01260	2112403	10083	2112594	10323	2112761	01520
2112155	00702	2112404	10065	2112595	10322	2112762	01519
2112156	01272	2112405	10064	2112597	10328A	2112763	10117
2112157	01271	2112416	10078	2112603	10328A	2112764	10116
2112159	01324	2112425	10307	2112604	10330A	2112767	10141
2112160	01296	2112428	10037	2112609	10217	2112768	10142
2112162	01263	2112435	01654	2112611	01508	2112771	10624
2112163	01247	2112437	01598	2112616	01511	2112772	10625
2112164	01285	2112438	01397	2112617	01512	2113000	10141
2112165	01245	2112439	01366	2112625	01412	2113001	10142
2112168	01293	2112443	01419	2112626	01590S	2113002	01553
2112169	01300	2112444	01417	2112636	01404	2113003	01552
2112173	01217S	2112453	01395	2112637	01471S	2113006	10145
2112174	00874	2112454	01394	2112649	01471S	2113007	10146S
2112175	01292	2112455	01379	2112650	01479	2113010	01546
2112181	01294S	2112456	01378	2112652	01478	2113011	01545
2112182	01598	2112461	01242	2112654	10216	2113022	10117
2112184	01323	2112461.015	01242+15	2112655	10215S	2113023	10116
2112185	00873	2112462	01500	2112658	10193	2113025	01131
2112193	01241SN	2112463	01452	2112663	10413	2113028	01557
2112197	01597	2112464	01451	2112669	10192	2113029	01556
2112201	01322	2112471	01449	2112674	10214	2113033	10118
2112205	01321	2112472	01448	2112677	10236	2113034	10153
2112207	01320	2112482	01446	2112679	10237	2113039	01784
2112208	01328	2112483	01415S	2112680	10060S	2113058	10126A
2112208.003	01328+3	2112484	01403	2112687	01505	2113059	10128A
2112208.015	01328+15	2112485	01377	2112688	01504	2113062	10162
2112209	01327	2112487	01350S	2112689	00602	2113063	10163
2112210	01057S	2112488	01351S	2112692	01528	2113066	01699
2112213	01309	2112489	00753S	2112693	01527	2113067	01698
2112215	01312S	2112490	00755	2112694	01649	2113070	10235
2112217	01310	2112491	01314S	2112695	01648	2113173	01571S
2112240	10048	2112492	01205S	2112696	10386	2113174	01570
2112274	10015	2112495	01146S	2112697	10385	2113175	10103
2112281	10036S	2112496	01145S	2112700	01553	2113176	10102S
2112290	10031	2112497	01484	2112701	01552	2113177	10169
2112309	01354	2112499	01483S	2112702	01555	2113178	10170
		2112500	01481	2112703	01554	2113185	10195
		2112501	01480	2112704	01429S	2113186	10196
		2112502	01336S	2112706	01537	2113187	10414
		2112503	01375	2112707	01538	2113188	10143

Interchange Listing

DANA/PERFECT CIRCLE (Cont'd)							
2113189	10144	2121202	160-1024	2141057	181-1014	2154200	192-1446
2113192	10221S	2121205	160-1161	2141058	184-1034	2154202	190-1454
2113201	01665	2121206	160-1162	2141061	183-1027	2154204	192-1484
2113202	01664	2121207	160-1227	2141063	183-1022	2154205	190-1449
2113203	01667	2121209	160-1149	2141073	184-1039	2154206	192-1453
2113204	01666	2121221	160-1023	2141078	181-1034	2154207	190-1531
2113205	01671	2121228	160-1016	2141084	184-1022	2154234	192-1462
2113206	01670	2121245	160-1041	2141086	183-1014	2154235	190-1473
2113207	01703	2121263	160-1031	2141089	184-1025	2154236	190-1455
2113208	01675	2121282	160-1001	2141091	184-1032	2154241	192-1481
2113209	01705	2121283	160-1025	2141092	184-1035	2154242	192-1482
2113210	01702	2121285	160-1171	2141093	183-1015	2154243	192-1480
2113211	01712	2121290	160-1184	2141096	181-1016	2154246	192-1484
2113212	01704	2121291	160-1192	2141102	181-1057	2161003	122-1043
2113213	01714	2121294	160-1049	2141107	187-1080	2161060	122-1007
2113214	01713	2121329	160-1083	2141108	187-1051	2161064	122-1005
2113215	01858	2121330	160-1099	2141114	187-1062	2161071	122-1059
2114010	01695S	2121333	160-1064	2141117	187-1067	2161102	122-1263
2114256	02103	2121334	160-1079	2141134	184-1033	2161103	122-1089
2114257	02220	2121339	160-1086	2142034	180-1059	2161111	122-1088
2121002	160-1286	2121342	160-1072	2142037	180-1055	2161112	122-1006
2121003	160-1285	2121343	160-1096	2142038	180-1056	2161114	122-1053
2121007	160-1604	2121344	160-1097	2142068	181-1048	2161118	122-1086
2121009	160-1223	2121354	160-1080	2142069	180-1077	2161130	122-1177
2121010	160-1220	2131629	VL21	2142070	180-1078	2161144	122-1079
2121013	160-1114	2131635	VL8	2142084	180-1037	2161160	122-1136
2121022	160-1296	2131638	VL37	2142107	181-1035	2161163	122-1023
2121026	160-1433	2131646	VL5	2142113	180-1004	2161189	122-1218
2121029	160-1503	2131650	VL32	2142121	180-1229	2161192	122-1330
2121038	160-1115	2131667	VL35	2142128	180-1029	2161204	122-1114
2121041	160-1288	2131669	VL9	2142141	180-1080	2161205	122-1155
2121046	160-1289	2131674	VL49	2142142	180-1079	2162502	161-1012
2121050	160-1116	2131675	VL31	2142145	180-1028	2162504	161-1020
2121051	160-1117	2131679	VL89	2154002	190-1349	2162506	161-1030
2121052	160-1118	2131682	VL67RH	2154008	190-1269	2162507	161-1018
2121053	160-1119	2131683	VL66RH	2154012	192-1331	2162508	161-1029
2121059	160-1120	2131686	VL64	2154013	192-1330	2162509	161-1040
2121061	160-1121	2131692	VL63	2154038	190-1237	2162513	161-1013
2121071	160-1122	2131694	VL48	2154039	190-1222	2163013	161-1023
2121074	160-1124	2131703	VL83	2154041	190-1221	2163139	161-1023
2121078	160-1125	2131710	VL109	2154049	190-1426	2165080	121-1000
2121083	160-1295	2131714	VL81	2154050	190-1280	2165081	121-1001
2121084	160-1126	2131721	VL88	2154051	192-1321	2165096	121-1002
2121092	160-1127	2131722	VL87	2154059	192-1229	2165117	121-1003
2121094	160-1206	2131723	VL86	2154078	190-1478	2165142	121-1006
2121097	160-1290	2131724	VL94	2154082	190-1411	2165144	121-1007
2121099	160-1205	2131725	VL114	2154085	190-1327	2165146	121-1009
2121112	160-1130	2131737	VL106	2154086	192-1339	2165147	121-1010
2121119	160-1131	2131738	VL115	2154087	192-1338	2165149	121-1011
2121125	160-1132	2131742	VL100	2154088	192-1322	2165169	121-1065
2121129	160-1133	2131743	VL113	2154089	190-1342	2165177	121-1014
2121131	160-1154	2131746	VL141	2154093	190-1429	2165183	121-1017
2121136	160-1134	2131747	VL116	2154100	190-1328	2165191	121-1018
2121139	160-1135	2131749	VL146	2154104	190-1440	2165201	121-1019
2121140	160-1136	2131750	VL106	2154106	190-1385	2165205	121-1020
2121141	160-1137	2131752	VL150	2154107	192-1381	2165206	121-1021
2121142	160-1011	2131753	VL141	2154108	190-1489	2165210	121-1023
2121143	160-1139	2131756	VL138	2154109	190-1384	2165214	121-1026
2121144	160-1140	2131763	VL135	2154111	190-1450	2165215	121-1027
2121145	160-1141	2131777	VL163	2154113	190-1408	2165217	121-1047
2121149	160-1143	2141005	184-1038	2154116	190-1403	2165219	121-1030
2121151	160-1145	2141016	183-1030	2154117	190-1433	2165220	121-1031
2121153	160-1006	2141017	183-1024	2154126	192-1229	2165221	121-1083
2121154	160-1148	2141020	181-1011	2154133	192-1399	2165223	121-1034
2121164	160-1150	2141021	183-1026	2154134	192-1409	2165228	121-1052
2121165	160-1152	2141029	181-1023	2154137	190-1396	2165229	121-1039
2121167	160-1175	2141030	181-1012	2154152	190-1421	2167021	220-1005
2121168	160-1144HP	2141034	184-1038	2154154	190-1417	2167026	220-1018
2121180	160-1044	2141035	184-1040	2154158	190-1370	2167054	220-1016
2121190	160-1164	2141037	184-1020	2154160	190-1351U60	2167055	220-1013
2121193	160-1005	2141038	183-1020	2154161	190-1425	2167106	220-1014
2121198	160-1009	2141047	181-1041	2154169	190-1395	2167107	220-1017
2121201	160-1424	2141048	181-1040	2154170	190-1351	2173164	140-5604
		2141053	181-1020	2154187	190-1435	2173166	140-7459
		2141055	181-1021	2154193	190-1443	2173167	140-7946
		2141056	184-1023	2154199	190-1438	2173170	140-6110

Interchange Listing

DANA/PERFECT CIRCLE (Cont'd)					
2187555	SB1750-9	2187818	SB2590E-1	VS1612	122-1011
2187559	SB1750-0	2187818.01	SB2590E-1+010	VS18	122-1223
2187577	SB1678E-1	2187818.02	SB2590E-1+020	VS1811	122-1014
2187581	SB1687-3	2187819	SB1437-2	VS1812	122-1015
2187583	SB1744E-1N	2187820	SB1687-2	VS1912	122-1017
2187585	SB1750-3	2187820.01	SB1687-2+010	VS47	122-1221
2187587	SB1750-4	2187821	SB1750-52	VS52	122-1212
2187589	SB1812-7	2187822	SB1500-50	VS55	122-1077
2187597	SB1812-11	2187824	SB1750-51	VS56	122-1031
2187598	SB1812-0	2187825	SB1375-50	VS64	122-1215
2187601	SB1875-12	2187827	SB1562-50		
2187617	SB1750-2	2187828	SB1812-55	DETROIT DIESEL	
2187617.01	SB1750-2+010	2187831	SB1500-54	10137454	.01482S
2187619	SB1750-1	2187832	SB1437-60	14025511	.01483S
2187619.01	SB1750-1+010	2187833	SB1375-55	14033927	.01484
2187623	SB1812-5	2187834	SB1437-61	14033928	.01482S
2187631	SB1875-9	2187836	SB1625-59	14030661	.01482S
2187635	SB1875-0	2187837	SB1500-70	23500054	.01482S
2187643	SB1937-9	2187838	SB1500-56	23500056	.01483S
2187651	SB1812-1	2187839	SB1250-50	23500058	.01484
2187661	SB1875-2	2187840	SB2375-2	23500061	.01483S
2187669	SB1937-4	2187841	SB1375-51	23500480	122-1221
2187670	SB1937-0	2187842	SB1500-62	23500501	.01500
2187677	SB1875-7	2187843	SB1750-61	23501576	13000
2187687	SB1875-1	2187844	SB1312-53	23501577	13001
2187697	SB1937-5	2187846	SB1875-51	23501580	240-1017
2187703	SB2000-6	2187847	SB1625-56	23502067	.01455
2187705	SB2000-3	2187848	SB1625-56	23502067	.01455
2187708	SB2000-0	2187848.03	SB1625-56+030	23502068	.01456
2187729	SB1937-1	2187850	SB1312-52	23505104	140-8133
2187733	SB2000-2	2187852	SB1812-51	23506350	.01566
2187737	SB2062-8	2187855	SB1812-54	23507238	121-1003
2187739	SB2088E-1	2187856	SB1812-56	23507504	.01566
2187739.015	SB2088E-1+015	2187857	SB1625-60	23515470	240-1017R
2187739.03	SB2088E-1+030	2187859	SB1812-53	23518571	140-8591
2187751	SB2000-1	2187861	SB1937-51	23523930	122-1242
2187763	SB2125-10	2187862	SB1625-58	23524521	.01566
2187765	SB2125-0	2187865	SB1625-52	23525179	13001S
2187783	SB2125-1	2187866	SB1375-56	23529004	13083S
2187785	SB2187-2	2187867	SB1937-52	23529596	13001
2187799	SB1847E-1	2187868	SB1562-67	23529629	13000
2187800	SB1691E-1	2187869	SB1500-71	23530359	160-1486
2187800.01	SB1691E-1+010	2187870	SB1312-59	23533147	240-1035R
2187801	SB2129E-1	2187876	SB1803E-1	23533148	240-1035
2187802	SB1880E-2	2187877	SB1628E-1N	23533552	140-8591
2187802.02	SB1880E-2+020	2187877.01	SB1628E-1N+010	23534743	240-1045R
2187803	SB1442E-2	2187878	SB2001E-1	23534745	240-1045
2187804	SB1505E-1	2187878.01	SB2001E-1+010	23535122	160-1486
2187805	SB1687E-1N	2187878.013	SB2001E-1+013	23535296	160-1418
2187806	SB1812E-1	2187879	SB2444E-1	23536862	240-1035SH+007
2187807	SB1912E-1	2187879.03	SB2444E-1+030	23536863	240-1035SH+012
2187807.02	SB1912E-1+020	2187879.062	SB2444E-1+062	23536864	240-1035SH+018
2187808	SB2150E-1	2187880	SB2562-1	23538829	240-1045
2187808.01	SB2150E-1+010	2187881	SB2250-1	23538840	240-1039
2187808.02	SB2150E-1+020	2187882	SB1812E-4	5101101	SB1262E-1
2187809	SB2004E-2	2187882.005	SB1812E-4+005	5101102	SB1262E-1
2187810	SB2503E-2	2187882.01	SB1812E-4+010	5104280	.01429S
2187811	SB2435E-1	2187882.02	SB1812E-4+020	5104701	240-1013R
2187812	SB2503E-1	2187882.03	SB1812E-4+030	5106136	.01366
2187813	SB1442E-1	2187926	SB1500-73	5108918	187-1069
2187813.005	SB1442E-1+005	2187927	SB1875-50	5109925	.01018
2187813.02	SB1442E-1+020	2187939	SB1750-68	5111332	240-1015
2187813.03	SB1442E-1+030	2187940	SB1562-72	5111336	.01500
2187813.04	SB1442E-1+040	2187943	SB1500-74	5111337	121-1011
2187813.063	SB1442E-1+063	2187944	SB1500-77	5114288	.01500
2187814	SB2020E-1	2187945	SB1250-56	5116137	.00758
2187815	SB1690E-1	2187946	SB1312-67	5116196	SB1441E-1
2187817	SB1161E-1	2188439	SB1437-3	5116341	121-1017
2187817.01	SB1161E-1+010	2188661	SB1875-2	5116361	SB1161E-1
2187817.02	SB1161E-1+020	2303029	186-1100	5116362	SB1161E-1+020
2187817.03	SB1161E-1+030	B45908	122-1358	5116363	SB1161E-1+030
2187817.04	SB1161E-1+040	GTA878	122-1241	5117561	160-1186
2187817.062	SB1161E-1+062	R18E11F	122-1075	5119293	240-1016
		R18H08MF	122-1052	5119992ND	140-1832
		VS143	122-1207	5120930	140-1680
		VS1610	122-1009	5125917	.00759
				5129919	140-1946
				5131096	SB1628E-2
				5131614	SB1161E-1
				5131961	140-6254
				5138653	140-6546
				5139982	SB1899E-1
				5142777	.01500
				5142960	.00411
				5144019	160-1185
				5145172	.00759
				5147347	160-1186
				5147424	160-1187
				5148489	.01366
				5148490	SB1442E-1
				5148493	SB1442E-1+020
				5148494	SB1442E-1+030
				5149042	.01366
				5149386	.01429S
				5149724	240-1018
				5149742	.01455
				5149743	.01456
				5149771	.01366
				5150041	240-1013
				5160037	240-1013R
				5178590	140-1680
				5185327	.00327
				5186381	.00411
				5193197	.00327
				5193198	.00411
				5193666	.00411
				5194968	.01500
				5195167	.01500
				5195948	.00758
				5196606	.00759
				5196752	SB1161E-1+010
				5197167	SB1262E-1+010
				5197168	SB1262E-1+020
				5197170	SB1262E-1+030
				5197176	.01018
				5198230	SB1628E-2+010
				5198232	SB1628E-2+020
				5198233	SB1628E-2+030
				5199323	.00759
				5199527	240-1012
				5199938	.01366
				6310193	140-7563
				7129248	140-7563
				7134379	140-7563
				7135923	140-7564
				8380291	121-1003
				8920119	.01456
				8920390	240-1018R
				8920404	240-1018
				8921209	122-1223
				8921347	.01455
				8921501	SB1161E-1
				8921502	SB1161E-1
				8921741	122-1224
				8922388	240-1014
				8922516	.01500
				8923813	187-1079
				8923814	187-1080
				8924439	187-1081
				8925203	121-1007
				8925606	240-1012
				8925981	240-1013
				8927794	160-1186
				8927857	160-1194
				8927920	SB1628E-2
				8929072	122-1242
				8929078	240-1017
				8929105	161-1039
				8929126	SB1628E-3
				8929127	SB1819E-1
				8929415	160-1418
				8929573	121-1080

Interchange Listing

DETROIT DIESEL (Cont'd)		74277	122-1205	P810318	122-1158	30663	SB1625-52
8929589	01567	74286	122-1252	P810323	122-1251	30663	SB1625-7
8929590	01566	74287	122-1254	P810324	122-1229	30664	SB1687-17
8929625	SB1819E-1+010	74290	122-1449	P810327	122-1236	30664	SB1687-2
8929626	SB1819E-1+020	74293	122-1260	P810333	122-1260	30664	SB1687-2PM
8929628	SB1628E-3+010	74295	122-1206	P810336	122-1234	30667	SB1812-4
8929629	SB1628E-3+020	74298	122-1139	P810338	122-1263	30668	SB1812-2
8929630	SB1628E-3+030	74299	122-1263	P810340	122-1159	30668	SB1812-8
A0249976445	240-1051R	74304	122-1086	P810372	122-1147	30670	SB1687-1
A0269978245	240-1051R	74314	122-1075			30671	SB1812-1
A4710500426	13381	74323	122-1251	DIVERCO			
A4710500527	13382	74324	122-1229	DPR230	192-1504	30671	SB1812-38
A47200530158	122-1461	74327	122-1236	DPR230A	192-1503	30671	SB1812-5
A4720350220	160-1679	74329	122-1226	DPR441	192-1337	30672	SB1812-5
A4720530020	160-1678	74333	122-1260	DPR442	192-1336	30673	SB1687-3
A4720530026	121-1073	74340	122-1159	DRK434	181-1020	30673	SB1687-3
A4720530420	160-1636	P810001	122-1043	DURABOND			
A4720530520	160-1637	P810005	122-1075	30015	SB1500-50	30674	SB1687-22
A4720530558	122-1461	P810029	122-1114	30031	SB1500-54	30674	SB1687-27
A4720780273	240-1051	P810045	122-1079	30045	SB1500-57	30674	SB1687-27
A4730500126	13354	P810046	122-1067	30138	SB1875-53	30674	SB1687-9
A4730500127	13355S	P810052	122-1203	30165	SB1750-68	30675	SB1687-6
DDEA1020530026	121-1132	P810125	122-1077	30230	SB1250-56	30676	SB1687-11
DDEA5419970345	240-1047R	P810126	122-1069	30238	SB1375-56	30676	SB1687-23
DDEA9060170488	240-1047	P810132	122-1199	30503	SB1562-2	30678	SB1687-7
DDEA9060500326	13360	P810136	122-1136	30509	SB1875-2	30679	SB1687-10
DDEA9060500327	13361	P810139	122-1136	30530	SB1812-3	30679	SB1687-8
DDEA9060530120	160-1643	P810146	122-1132	30537	SB2125-4	30680	SB1812-21N
DDEA9060530130	140-3176	P810147	122-1132	30541	SB1562-9	30681	SB1875-20
DDEA9060530131	SB1382E-2	P810149	122-1086	30542	SB1818E-1	30681	SB1875-6
DDEA9060530132	SB1587E-1	P810151	122-1116	30556	SB1437-1	30682	SB1875-1
DDEA9060530358	122-1462	P810153	122-1150	30557	SB2125-1	30682	SB1875-35
DDEA9060531232	SB1587E-1	P810154	122-1262	30558	SB1375-1	30683	SB1875-4
		P810155	122-1141	30559	SB1687-4	30684	SB1875-17
		P810163	122-1187	30560	SB1687-55	30685	SB1875-18
		P810170	122-1125	30562	SB1937-1	30687	SB1875-7
		P810181	122-1067	30640	SB1312-50	30690	SB2000-36
		P810183	122-1330	30640	SB1562-6	30691	SB2000-1
		P810185	122-1053	30640	SB1562-6PM	30692	SB2000-17
		P810224	122-1073	30642	SB1630E-1	30692	SB2000-38
		P810225	122-1198	30643	SB1562-1	30694	SB2000-18
		P810226	122-1075	30643	SB1562-1PM	30698	SB2000-15
		P810234	122-1201	30643	SB1562-1PM	30699	SB2000-16
		P810235	122-1202	30643+10	SB1562-1+010	30700	SB2000-2
		P810237	122-1149	30644	SB1562-4	30700	SB2006E-1
		P810238	122-1155	30644+10	SB1562-4+010	30700+10	SB2006E-1+010
		P810239	122-1142	30645	SB1562-7	30700+5	SB2006E-1+005
		P810240	122-1067	30646	SB1625-2	30701	SB2000-29
		P810241	122-1215	30646	SB1562-17	30702	SB2000-4
		P810242	122-1216	30647	SB1625-1	30705	SB1500-4
		P810246	122-1232	30648	SB1625-1	30706	SB1500-5
		P810251	122-1086	30648	SB1625-1PM	30707	SB1500-8
		P810254	122-1086	30648+5	SB1625-1+005	30709	SB1500-9
		P810255	122-1088	30649	SB1625-4	30710	SB1500-13
		P810256	122-1114	30649	SB1625-4PM	30711	SB1500-1
		P810258	122-1162	30650	SB1625-3	30711	SB1500-1PM
		P810264	122-1204	30651	SB1625-10	30712	SB1500-3
		P810269	122-1077	30652	SB1750-7	30712	SB1500-3
		P810270	122-1069	30653	SB1750-8	30712	SB1500-56
		P810271	122-1200	30654	SB1750-9	30713	SB1500-28
		P810274	122-1052	30655	SB1750-3	30714	SB1500-12
		P810275	122-1232	30657	SB1750-5	30715	SB1500-0
		P810276	122-1202	30658	SB1750-2	30717	SB1500-71
		P810277	122-1205	30658	SB1750-2PM	30718	SB1505E-1
		P810282	122-1150	30658	SB1750-38	30720	SB1687-18
		P810286	122-1252	30659	SB1750-1	30722	SB1500-11
		P810287	122-1254	30659	SB1750-39	30723	SB2000-12
		P810290	122-1449	30660	SB1750-13	30724	SB2000-13
		P810293	122-1260	30661	SB1625-9	30725	SB2000-6
		P810295	122-1206	30662	SB1625-6	30726	SB2000-3
		P810298	122-1139			30727	SB2000-14
		P810299	122-1263			30729	SB2000-0
		P810304	122-1086			30730	SB2000-27
		P810306	122-1230			30731	SB1562-18
		P810307	122-1155			30732	SB1625-14
		P810314	122-1075			30733	SB1687-13
						30736	SB1312-9
						30754	SB1125-1
						30754	SB1125-8
						30774	SB1312-4
						30775	SB1312-1

Interchange Listing

DURABOND (Cont'd)							
30775	SB1312-7	31064	SB1375-51	31223	SB1625-62	31620	SB1250-60
30779	SB1312-52	31064	SB1375-64	31225	SB1437-10	31622	SB1312-3
30779	SB1312-67	31068	SB1457E-2	31225	SB1437-24	31624	SB1312-59
30786	SB1375-3	31080	SB1562-66	31225	SB1437-9	31625	SB1312-63
30786	SB1375-8	31090	SB1828E-1	31227	SB1772E-2	31626	SB1312-53
30787	SB1375-18	31091	SB1875-0	31228	SB1850E-2	31630	SB1312-62
30787	SB1375-65	31092	SB1875-56	31234	SB1625-17	31635	SB1375-55
30788	SB1375-7	31097	SB1125-2	31237	SB1812-50	31636	SB1375-54
30790	SB1375-4	31097	SB1125-5	31238	SB1875-19	31637	SB1375-63
30791	SB1375-2	31097	SB1125-6	31239	SB1812-51	31638	SB1375-60
30792	SB1375-0	31102	SB1375-50	31240	SB2125-31	31643	SB1437-50
30801	SB1437-4	31104	SB1562-31	31241	SB1500-58	31644	SB1437-59
30802	SB1437-51	31105	SB1250-58	31242	SB1937-19	31645	SB1437-67
30802	SB1437-8	31111	SB1437-25	31243	SB1812-53	31646	SB1437-63
30803	SB1437-6	31112	SB1562-0	31244	SB1500-73	31647	SB1437-66
30806	SB1437-65	31117	SB1750-60	31248	SB1375-22	31648	SB1437-60
30809	SB1437-68	31124	SB2125-32	31249	SB2062-25	31649	SB1437-61
30818	SB1437-62	31125	SB1375-6	31251	SB1562-74	31650	SB1437-74
30822	SB1500-6	31128	SB1750-10	31252	SB2250-12	31651	SB1437-75
30823	SB1500-2	31129	SB1750-0	31252	SB2250-2	31652	SB1437-53
30838	SB1562-8	31129	SB1750-32	31255	SB1500-30	31656	SB1437-69
30839	SB1562-11	31131	SB1812-18	31258	SB1500-53	31658	SB1437-73
30839	SB1562-34	31131	SB1812-19	31261	SB2250-35	31659	SB1437-72
30840	SB1562-36	31134	SB1937-30	31262	SB1937-6	31666	SB1500-75
30841	SB1562-12	31134	SB1937-7	31269	SB1812-17	31667	SB1500-79
30853	SB1625-29	31135	SB2187-1	31270	SB1687-0	31670	SB1516E-1
30854	SB1625-20	31137	SB1812-54	31280	SB2000-11	31673	SB1562-77
30857	SB1625-11	31139	SB1375-61	31281	SB1937-52	31674	SB1562-72
30857+6	SB1625-11+006	31139	SB1375-62	31282	SB2187-27	31679	SB1609E-1
30871	SB1687-12	31142	SB1062-4	31283	SB1812-12	31683	SB1625-8
30872	SB1687-15	31143	SB1125-10	31285	SB1812-55	31685	SB1625-58
30873	SB1687-16	31143	SB1125-4	31286	SB1562-66	31686	SB1625-63
30873	SB1687-32	31145	SB1187-5	31287	SB1562-69	31687	SB1625-59
30881	SB1687-54	31146	SB1187-51	31288	SB1687-51	31688	SB1625-60
30889	SB1750-6	31147	SB1250-1	31289	SB1312-11	31691	SB1625-64
30891	SB1750-12	31148	SB1250-12	31289	SB1312-6	31692	SB1625-50
30903	SB1812-15	31151	SB1250-50	31290	SB1500-29	31695	SB1640E-1
30904	SB1812-7	31152	SB1250-2	31291	SB1500-63	31702	SB1691E-1
30905	SB1812-11	31152	SB1250-4	31292	SB1562-54	31703	SB1691E-2
30919	SB1875-9	31153	SB1312-10	31318	SB1562-51	31707	SB1687-56
30920	SB1875-14	31155	SB1312-5	31327	SB1812-52	31708	SB1687-58
30923	SB1875-11	31156	SB1375-10	31329	SB1437-56	31709	SB1722E-1
30932	SB1937-4	31157	SB1375-5	31330	SB2125-33	31715	SB1750-65
30933	SB1937-27	31160	SB1437-30	31344	SB1562-34	31718	SB1750-52
30935	SB1937-23	31161	SB1437-5	31352	SB1187-2	31722	SB1782E-1
30936	SB1937-17	31163	SB1562-28	31373	SB1678E-1	31723	SB1803E-1
30952	SB2000-7	31165	SB1750-17	31402	SB1437-14	31724	SB1814E-1
30963	SB2062-3	31168	SB1102E-1	31455	SB1625-30	31725	SB1815E-1
30974	SB2125-34	31169	SB1142E-2	31459	SB1812-0	31726	SB1817E-3
30984	SB2187-4	31170	SB1181E-1	31467	SB1750-51	31726+10	SB1817E-3+010
30989	SB2250-1	31171	SB1221E-2	31470	SB2250-20	31727	SB1812-56
30991	SB2312-9	31172	SB1260E-1	31471	SB1937-8	31732	SB1847E-1
30994	SB2375-2	31173	SB1299E-1	31482	SB1625-39	31734	SB1853E-1
31000	SB1812-10	31174	SB1339E-2	31484	SB1500-70	31736	SB1875-13
31030	SB1437-3	31175	SB1378E-1	31486	SB1562-5	31737	SB1875-38
31030	SB1437-3PM	31176	SB1417E-1	31488	SB1625-18	31738	SB1875-8
31031	SB1437-2	31177	SB1457E-2	31489	SB1625-5	31739	SB1880E-2
31031	SB1437-2PM	31178	SB1496E-1	31491	SB1687-33	31741	SB1875-54
31032	SB1500-10	31179	SB1535E-1	31495	SB1875-50	31743	SB1900E-2
31033	SB1562-3	31181	SB1575E-3	31496	SB1937-3	31744	SB1900E-1
31034	SB1875-51	31182	SB1614E-1	31497	SB1937-2	31745	SB1900E-3
31042	SB1687-29	31183	SB1654E-3	31498	SB2125-2	31747	SB1937-51
31045	SB1750-11	31186	SB1693E-4	31499	SB2187-12	31748	SB1937-12
31045	SB1750-34	31187	SB1732E-1	31600	SB1000-1	31749	SB1937-5
31046	SB1625-33	31188	SB1811E-1	31602	SB1062-51	31753	SB1969E-2
31047	SB1062-50	31189	SB1890E-2	31603	SB1125-55	31754	SB1973E-1
31048	SB1125-52	31190	SB1929E-1	31604	SB1125-51	31756	SB2001E-1
31050	SB1187-52	31193	SB2008E-2	31605	SB1125-54	31756+10	SB2001E-1+010
31053	SB1250-3	31194	SB2047E-1	31607	SB1125-53	31757	SB2003E-1
31054	SB1250-52	31195	SB2087E-2	31609	SB1187-1	31762	SB2000-10
31058	SB1312-57	31199	SB1562-67	31610	SB1187-7	31765	SB2020E-1
31058	SB1312-68	31204	SB1500-62	31611	SB1187-54	31766	SB2049E-1
31063	SB1375-52	31205	SB1500-77	31614	SB1250-61	31768	SB2062-8
31064	SB1375-26	31207	SB1500-74	31615	SB1250-59	31769	SB2062-2
		31215	SB1750-61	31617	SB1250-53	31770	SB2062-30
		31218	SB1625-56	31619	SB1250-54	31772	SB2129E-1

Interchange Listing

DYNAGEAR/MANLEY (Cont'd)					
30753	SB1630E-1+010	31600	SB1937-5	32660	SB1687-8
30755	SB1630E-1+020	31610	SB1687-12	32680	SB2000-10
30770	SB1437-6	31620	SB1818E-1	32700	SB1937-1
30780	SB1625-1	31630	SB1875-6	32720	SB2187-7
30790	SB1625-2	31640	SB1687-13	32730	SB1937-9
30810	SB1640E-1	31650	SB2000-13	32740	SB2250-13
30820	SB1562-1	31660	SB2062-8	32760	SB2250-35
30830	SB1562-13	31670	SB1687E-1N	32770	SB2250-7
30860	SB1562-7	31680	SB2000-3	32780	SB1937-4
30870	SB1562-34	31710	SB2000-0	32790	SB2250-9
30880	SB1562-34	31720	SB2000-6	32800	SB2000-1
30890	SB1500-0	31730	SB1687-4	32810	SB2125-3
30900	SB1562-8	31740	SB1750-6	32820	SB2444E-1
30910	SB1562-4	31800	SB1750-13	32880	SB2312-2
30913	SB1562-4+010	31810	SB1750-17	32990	SB2250-1
30920	SB1500-10	31820	SB2006E-2	33030	SB2503E-1
30940	SB1687-9	31822	SB2006E-1+005	33090	SB1812-0
30950	SB1687-6	31823	SB2006E-1+010	33125	SB2006E-1+020
30960	SB1500-11	31840	SB1847E-1	33130	SB2506E-1
30964	SB2062-1	31860	SB2125-2	33330	SB2590E-1
30970	SB1678E-1	31870	SB2062-1	33790	SB1562-5
30980	SB1500-12	31890	SB1812-10	33810	SB1562-2
30990	SB1750-3	31950	SB2062-2	33940	SB2088E-1
31000	SB1750-4	31970	SB1812E-4	33944	SB2088E-1+015
31010	SB1500-19	31972	SB1812E-4+005	34050	SB2062-9
31020	SB1750-5	31973	SB1812E-4+010	34210	SB1505E-1
31030	SB1750-34	31980	SB1817E-3	34300	SB1625-11+006
31060	SB1750-7	31983	SB1817E-3+010	3435	01698S
31080	SB1750-8	31985	SB1817E-3+020	34440	SB2131E-1
31090	SB1500-23	31987	SB1817E-3+040	34443	SB2131E-1+010
31100	SB1750-9	31995	SB1818E-2+020	34445	SB2131E-1+020
31130	SB1500-30	32000	SB1831E-1	34470	SB1687-1
31140	SB1500-8	32020	SB1853E-1	34480	SB1500-4
31150	SB1687-2	32040	SB2020E-1	34490	SB1875-20
31170	SB1687-3	32050	SB2250-2	34500	SB1437-2
31180	SB1500-9	32060	SB1875-16	34720	SB1828E-1
31210	SB1375-1	32070	SB1875-17	34850	SB1625-11
31220	SB1375-4	32120	SB2250-18	35000	SB1442E-1
31230	SB1562-11	32130	SB1912E-1	35005	SB1442E-1+020
31240	SB1375-2	32140	SB2187-9	35130	SB1312-53
31250	SB1562-12	32180	SB1937-19	35170	SB1500-63
31260	SB1562-15	32190	SB1937-2	35190	SB1625-53
31270	SB1262E-1	32200	SB1937-3	35210	SB1625-56
31273	SB1262E-1+010	32210	SB1937-7	35220	SB1669E-1
31275	SB1262E-1+020	32220	SB2375-2	35230	SB1687-15
31276	SB1262E-1+030	32260	SB1969E-2	35300	SB1687-51
31277	SB1262E-1+040	32270	SB2000-11	35340	SB1812-54
31280	SB1750-2	32280	SB2000-12	35350	SB1875-50
31290	SB1750-1	32290	SB2000-15	35360	SB1875-51
31310	SB1562-18	32300	SB2000-16	35370	SB1937-17
31330	SB1500-1	32310	SB2000-17	35390	SB2125-1
31340	SB1500-3	32320	SB2000-9	35410	SB1486E-1
31350	SB1562-3	32330	SB2004E-2	35420	SB2000-18
31370	SB1516E-1	32350	SB2047E-1	35440	SB1657E-1
31380	SB1875-12	32360	SB2062-20	36110	SB1500-77
31400	SB1625-14	32370	SB2062-25	36160	SB1812-12
31410	SB1875-9	32380	SB2062-3	36180	SB1875-19
31420	SB1625-17	32390	SB2062-30	36190	SB1875-56
31430	SB1625-20	32400	SB2062-5	36230	SB1250-58
31440	SB1875-14	32410	SB2125-10	36250	SB1312-3
31460	SB1875-0	32450	SB2506E-2	36270	SB1312-67
31470	SB1625-4	32460	SB2125-7	36290	SB1375-61
31480	SB1625-64	32470	SB1812-7	36330	SB1722E-1
31490	SB1875-8	32480	SB1812-14	37000	SB1875-57
31500	SB1875-2	32500	SB1812-11	38010	SB1437-50
31510	SB1625-7	32510	SB1812-15	38020	SB1312-50
31520	SB1803E-1	32520	SB2125-8	38130	SB1375-50
31530	SB1875-7	32530	SB1812-2	38140	SB1750-51
31540	SB1625-8	32540	SB1812-5	38150	SB1500-50
31560	SB1875-11	32550	SB1812-8	38160	SB1562-50
31570	SB1687-0	32580	SB1812-4	38170	SB1375-51
31580	SB1687-11	32600	SB1812-1	38250	SB1312-52
31590	SB1875-1	32610	SB2150E-1	38280	SB1625-50
		32620	SB1812-3	38290	SB1500-53
		32640	SB1687-10	38300	SB1812-50
		32650	SB1687-7	38310	SB1500-54
				38340	SB1750-52
				38350	SB1812-51
				38410	SB1500-56
				38420	SB1750-60
				38430	SB1562-54
				38450	SB1500-57
				38500	SB1437-51
				38520	SB1250-52
				38540	SB1375-52
				38550	SB1562-51
				38560	SB1437-53
				38650	SB1500-58
				38660	SB1250-50
				38770	SB1812-53
				38810	SB1625-52
				38820	SB1437-56
				38830	SB1250-53
				38840	SB1437-68
				38850	SB1312-64
				38870	SB1437-59
				38890	SB1375-55
				38900	SB1500-62
				39000	SB1437-63
				39020	SB1500-75
				39030	SB1750-61
				39040	SB1562-69
				39050	SB1875-54
				39060	SB1562-74
				39090	SB1625-62
				39100	SB1437-65
				39140	SB1562-17
				39150	SB1375-18
				39180	SB1500-71
				39190	SB1312-59
				39200	SB1250-54
				39210	SB1062-50
				39220	SB1125-51
				39230	SB1562-67
				39240	SB1312-56
				39260	SB1187-52
				39290	SB1687-54
				39300	SB1437-62
				39310	SB1812-52
				39330	SB1562-66
				39340	SB1500-74
				39350	SB1250-56
				39360	SB1437-4
				39370	SB1500-73
				39380	SB1562-9
				39390	SB1750-38
				39400	SB1750-65
				39420	SB1687-16
				39430	SB1625-55
				39440	SB1437-58
				39460	SB2001E-1
				39520	SB1562-57
				39530	SB1375-54
				39550	SB2562-1
				39560	SB2187-1
				39570	SB1312-57
				39590	SB1312-62
				39630	SB1437-60
				39640	SB1812-56
				39650	SB1625-60
				39660	SB1687-56
				39670	SB1625-59
				39680	SB1500-70
				39700	SB1437-61
				39710	SB1812-55
				39730	SB1312-63
				39780	SB1880E-1
				39790	SB1681E-1
				39800	SB1690E-1
				39830	SB1187-51
				39870	SB1687-55
				39880	SB1437-66

Interchange Listing

DYNAGEAR/MANLEY (Cont'd)					
39890	SB1375-56	5040	140-6977	7117	140-9109
39900	SB1437-67	5041	140-6850	7118	140-9946
39920	SB1937-52	5060	140-7260	7119	140-9107
39930	SB1187-53	5070	140-6111	7123	140-8219
39960	SB1750-68	5077	140-7198	7124	140-8114
39970	SB1562-72	5082	140-7444	7125	140-8115
39980	SB1937-51	5084	140-7457	7126	140-8124
39990	SB1625-58	5103	140-6873	7127	140-8112
40100160	01770R	5104	140-6523	7128	140-8113
40100163	01772R	51043	140-1817	7255	140-9705
40100202	01763R	51047	140-1968	7302	140-8144
40110188	01777R	5106	140-9584	7306	140-8156
40110219	01773R	5112	140-7460	7307	140-8177
40510	SB2006E-1	5113	140-6113	7308	140-8203
41100160	01771R	5116	140-5610	7309	140-8216
41100202	01764R	5117	140-6109	7310	140-8218
4250	SB1562-0	5118	140-7946	7311	140-8273
4290	SB1812-0	5119	140-6107	7312	140-8274
4310	SB1937-0	51668	140-1747	7313	140-8292
4320	SB2000-0	51670	140-7174	7314	140-8324
4330	SB2125-0	51836	140-7876	7318	140-8155
4380	140-7359	6005	140-7272	7319	140-8178
4404	140-7395	6006	140-7271	7321	140-8217
4406	140-7713	6009	140-7291	7322	140-8255
4408	140-7714	6012	140-7552	7323	140-8291
4414	140-7577	6016	140-7447	7458	140-9557
4414+2	140-7577+2	6017	140-7276	7571	140-8200
4415	140-7576	6021	140-7277	7572	140-8205
4416	140-7574	6060	140-7279	7573	140-8186
4418	140-7575	6105	140-7562	7574	140-8187
4426	140-7542	652	140-5745	7575	140-8172
4428	140-7499	7001	140-6587	7577	140-8142
4448	140-9205	7005	140-9607	7580	140-8193
4458	140-9557	7005U	140-9607U	7581	140-8194
4468	140-7659	7006	140-9606	7582	140-7825
4524	140-7523	7006U	140-9606U	7584	140-8190
4551	140-7710	7007	140-9604	7585	140-8191
4552	140-7828	7008	140-9609	7588	140-8211
4555	140-8021	7009	140-9298	7589	140-8212
4556	140-8038	7010	140-9119	7590	140-8209
4560	140-7545	7011	140-9554	7591	140-8143
4561	140-7826	7012	140-9612	7592	140-8195
4562	140-7827	7016	140-9110	7593	140-8147
4563	140-7873	7017	140-9108	7595	140-8201
4564	140-8017	7017U	140-9108U	7596	140-8202
4566	140-7532	7019	140-9105	7599	140-8208
4567	140-7529	7020	140-9869	7600	140-8207
5001	140-1908	7021	140-9114	7601	140-7830
5005	140-5607	7022	140-9116	7602	140-8189
5006	140-5606	7023	140-9115	7603	140-8018
5007	140-5604	7024	140-9259	7607	140-9204
5009	140-7298	7025	140-9106	7609	140-8173
5010	140-6119	7026	140-9872	7615	140-7999
5011	140-7554	7027	140-9867	7616	140-8180
5012	140-5612	7033	140-9458	7617	140-8158
5016	140-6110	7040	140-9977	7618	140-8157
5017	140-6108	7051	140-9206	7621	140-8203
5018	140-1907	7060	140-9260	7625	140-8139
5019	140-6105	7065	140-7248	8001	340-1019BR
5020	140-6869	7070	140-9111	80020	SB1562-36N
5021	140-6114	7070U	140-9111U	80030	SB1628E-2
5022	140-6116	7073	140-8016	8005	340-1020BR
5023	140-6115	7076	140-8039	8006	340-1021BR
5024	140-7259	7077	140-9198	8007	340-1022BR
5025	140-6106	7082	140-8040	80080	SB1181E-1N
5026	140-6872	7085	140-7398	8009	340-1024BR
5027	140-6867	7102	140-9560	8011	340-1025BR
5031	140-7459	7103	140-9873	8012	340-1026BR
5032	140-7546	7104	140-9523	80140	SB1880E-2
5033	140-7458	7106	140-9584	8016	340-1027BR
5034	140-1909	7108	140-9459	8017	340-1028BR
5035	140-7197	7109	140-7847	8019	340-1029BR
5036	140-6905	7110	140-9848	8020	340-1030BR
		7112	140-9460	8021	340-1031BR
		7113	140-9113	8024	340-1032BR
		7116	140-9610	8025	340-1033BR
				8027	340-1034BR
				80270	SB2049E-1
				80280	SB1161E-1
				803	140-1421
				8033	340-1035BR
				80390	SB1375-3N
				80500	SB1437-3N
				80510	SB2006E-3N
				80550	SB1441E-1
				80630	SB1691E-1
				80640	SB1691E-2
				80660	SB1900E-1
				80690	SB1625-4N
				80710	SB1437-1N
				80740	SB1625-3N
				80750	SB1630E-1N
				80760	SB1624E-1N
				80780	SB1625-1N
				80810	SB1640E-1
				80820	SB1562-1N
				80840	SB1562-6N
				80940	SB1687-9N
				80970	SB1678E-1
				80990	SB1750-3N
				81000	SB1750-4N
				81040	SB1744E-1N
				81150	SB1687-2N
				81170	SB1687-3N
				81190	SB1535E-1N
				81210	SB1375-1N
				81270	SB1262E-1
				81280	SB1750-2N
				81290	SB1750-1N
				81300	SB1693E-1N
				81303	SB1693E-1N+010
				81305	SB1693E-1N+020
				81306	SB1693E-1N+030
				81330	SB1500-1N
				815	140-1577
				81550	SB1654E-3N
				81590	SB1875-1N
				81680	SB2000-3N
				81730	SB1687-4N
				81780	SB1733E-2N
				81820	SB2006E-1N
				81840	SB1847E-1
				81930	SB1812-21N
				82540	SB1812-5N
				82560	SB1812-9N
				82580	SB1812-4N
				826	140-1546
				82600	SB1812-1N
				82630	SB1687-5N
				828	140-1544
				82800	SB2000-1N
				82890	SB2435E-1
				83070	SB1671E-1N
				83080	SB1417E-1N
				83100	SB2506E-1
				83140	SB2006E-2
				83330	SB2590E-1
				835	140-1717
				83810	SB1562-2N
				83940	SB2088E-1
				84210	SB1505E-1
				84220	SB1442E-2
				84310	SB2220E-1
				84440	SB2129E-1
				84470	SB1687-1N
				84500	SB1437-2N
				84510	SB1815E-1
				847	140-1600
				85000	SB1442E-1
				85010	SB1781E-1N
				85220	SB1669E-1
				853	140-1974

Interchange Listing

DYNAGEAR/MANLEY (Cont'd)					
854	140-7371	A1099	00486	A1813	01322
85400	SB1348E-1N	A1105	00348	A1815	01320
85410	SB1486E-1	A1107	00312	A1817	01324
85430	SB1609E-1	A1187	00319	A1819	01271
85440	SB1657E-1	A1235	00168	A1819+15	01271+15
856	140-7372	A1265	00520	A1821	01597
875	140-1914	A1267	00518	A1827	01321
8825	340-1036BR	A1271	00185	A1829	01310
8826	340-1037BR	A1331	01500	A1831	01327
887	140-1470	A1335	00549	A1833	01300
89040	SB1562-69N	A1349	01265	A1835	01354
89380	SB1562-9N	A1353	00564	A1837	01361
89460	SB2001E-1	A1355	01242	A1849	01326
89470	SB1628E-1N	A1355+15	01242+15	A1849+15	01326+15
89490	SB1654E-1N	A1367	00486	A1853	01441
89500	SB1973E-1	A1371	00489	A1861	01378
89510	SB1775E-1	A1423	00690	A1875	01367
89560	SB2187-1C	A1437	00758	A1875+15	01367+15
89780	SB1880E-1	A1459	00592	A1877	01387
89790	SB1681E-1	A1463	00503	A1881	01381
89800	SB1690E-1	A1497	00658	A1885	01358
912	140-1703	A1519	01242	A1885+15	01358+15
913	140-1678	A1519+15	01242+15	A1889	01394
914	140-1515	A1539	01047	A1891	01135
915	140-1458	A1549	00882A	A1891+15	01135+15
916	140-1619	A1553	00608	A1891+3	01135+3
918	140-1620	A1555	00873	A1897	01448
920	140-1636	A1559	00759	A1901	01451
923	140-1854	A1567	00742	A1907	01399
924	140-1853	A1585	01266	A1911	01814
925	140-1851	A1585+15	01266+15	A1921	01266
926	140-1852	A1587	01358	A1921+15	01266+15
927	140-6730	A1587+15	01358+15	A1923	01192
928	140-1873	A1589K	01329	A1923+15	01192+15
929	140-1875	A1589K+15	01329+15	A1923+3	01192+3
933	140-1947	A1611	00976	A1925	01265
938	140-1830	A1635	01332	A1931	01041
939	140-1874	A1635+15	01332+15	A1935	02084
940	140-1673	A1639	00970	A1955	00485
942	140-1829	A1643	00974	A1957	00921
943	140-1872	A1649	00919	A1961	01233
947	140-1865	A1651	01106	A1963	01288
948	140-1833	A1651+15	01106+15	A1981	01419
952	140-1956	A1669	01000	A1981+15	01419+15
953	140-1976	A1669+15	01000+15	A1983	01417
954	140-1977	A1683	01097	A1991	01135
956	140-1858	A1685	01093	A1991+15	01135+15
957	140-1859	A1705	01072	A1991+3	01135+3
960	140-1860	A1709	01188	A1995	01527
961	140-1897	A1713	01189	A1999	01358
963	140-8004	A1715	01083	A1999+15	01358+15
970	140-1906N	A1717	01156	A2001	01542
984	140-1711	A1717+15	01156+15	A2017	00159
986	140-7408	A1721K	01307	A2025	01203
987	140-1888	A1725	00989	A2027	01156
990	140-1814	A1731	01102	A2045	01309
991	140-1813	A1735	01147	A2049	01387
992	140-6469	A1761	01237	A2049	01389
993	140-6470	A1761+15	01237+15	A2075	01055
994	140-7338	A1763	01171	A2077	01511
995	140-7338	A1765	01169	A2083	01478
997	140-6881	A1765+15	01169+15	A2109	01377
998	140-7813	A1771	01135	A2141	01480
A0403	01542	A1771+15	01135+15	A2141+15	01480+15
A0729	00220	A1772	01199	A2143	02058
A0871	00411	A1772K	01179	A2147	01554
A1027	00203	A1785	01212	A2149	01552
A1049	00154	A1787	01210	A2151+15	01550+15
A1051	00205	A1791	01215	A2163	10104
A1059	00310	A1797	01245	A2165	10146
A1077	00400	A1799	01247	A2173	00100
A1077+15	00400+15	A1803	01160	A2189	10069
A1077+3	00400+3	A1805	01325	A2197	10106
		A1807	01257	A2199	10330A
		A1809	01292	A2215	10142
				A2217	01556
				A2217+15	01556+15
				A2219	01527
				A2221	10129
				A2225	01578S
				A2231	01566
				A2233	01455
				A2237	01397
				A2241	01545
				A2247	01504
				A2247+15	01504+15
				A2249	01777R
				A2253	01769R
				A2255	01770R
				A2265	01727
				A2275	10116
				A2281	01513
				A2283	01535
				A2285	10386
				A2285+15	10386+15
				A2289	01648
				A2297	01653
				A2297	01695S
				A2301	00923
				A2313	01366
				A2317	01710
				A2343	01772R
				A2345	01776R
				A2359	01547
				A2359+15	01547+15
				A2397	01591
				A2397+15	01591+15
				A2419	01537
				A2421	01698
				A2425	10235
				A2427	10388
				A2427+15	10388+15
				A2429	10148
				A2431	10128A
				A2433	01670
				A2437	01044
				A2441	01419
				A2441+15	01419+15
				A2443	01675
				A2447	01674
				A2451	01077
				A2453	10315
				A2469	10163
				A2473	10244
				A2475	10237
				A2477	10146
				A2481	10144
				A2489	10300
				A2491	10191
				A2493	10196
				A2495	10414
				A2497	10164
				A2499	10311
				A2509	10340A
				A2519	10315
				A2521	10323
				A2531	10271
				A2553	10256
				A2579	10386
				A2579+15	10386+15
				A2631	01771R
				A2633	01715
				A2633+15	01715+15
				A2637	01664
				A2653	10123
				A2655	10435
				A2659	10546
				A2661	10437
				A2681	01704
				A2683	01702
				A2689	01807

Interchange Listing

DYNAGEAR/MANLEY (Cont'd)							
A2697	10517	A701	00270	AX2127	01205S	ML812H	VL8
A2715	10229	A713	00212	AX2169	10102S	ML817H	VL37
A2735	10138	A729	00220	AX2169	10302	ML817RH	VL66RH
A2739	10507	A769	00257	AX2203	10269	ML81M	VL81
A2751	10474	A781	00121	AX2227	01646S	ML846H	VL5
A2759	10525	A785	00303	AX2247	01504S	ML900H	VL35
A2761	10542	A841	00196	AX2307	01542S	ML900RH	VL67RH
A2763	10544	A843	00210	AX2307+15	01542S+15	ML945H	VL32
A2765	10207	A861	00170	AX2471	10248	ML951H	VL49
A2767	10198A	A871	00327	AX2515	10274S	ML969H	VL73
A2769	01706	A891	00249	AX2517	10282	ML969RH	VL117RH
A2771	10521	A911	00375	AX2517	10282S	ML976H	VL64
A2773	10523	A949	00234	AX2533	10193	ML992M	VL63
A2781	10217	AC1303	00530SN	AX2547	10338S	S1042	00343
A2787	01713	AC1637	00917SN	AX2557	00751S	S1052	00349
A2793	01782	AC1637+15	00917SN+15	AX2627	01422S	S1056	00169
A2809	10503	AC1879	01383SN	AX2629	01758	S1060	00311
A2819	10507	AC1879+15	01383SN+15	AX2673	10555S	S1068	00193
A2821	10102S	AC1977	01385SN	AX2679	01780S	S1070	00204
A2823	10170	AC1977+15	01385SN+15	AX2689	01807S	S1078	00399
A2831	10159	AC1979	01241SN	AX2705	10285S	S1078+15	00399+15
A2833	10235	AC3263	01832SN	AX2711	10227S	S1110	00155
A2841	10563	AX1171	00598S	AX2728	01422S	S1120	00428
A2843	01708	AX1239	00427S	AX2741	10553S	S1186	00318
A2849	01877	AX1303	01346S	AX2747	10306S	S1222	00494
A2863	10497	AX1383	00559S	AX2799	10221S	S1237	00313
A2865	10499	AX1417	01217S	AX2803	10276S	S1266	00514
A2867	10501	AX1523	00746S	AX2857	10370S	S1316K	00548
A2869	10535A	AX1597	00602S	AX2875	10370S	S1336	00550
A2885	01737	AX1597	00602S	AX2881	10342S	S1350	00567
A2911	01588	AX1613	00753S	AX2913	10220S	S1350+15	00567+15
A2921	01570	AX1633	01177S	AX2919	01235S	S1356	00585
A2925	01675	AX1633+15	01177S+15	AX2923	01761S	S1382	00560
A2927	01531	AX1651	01261S	AX2929	01659S	S1416	00627
A2931	01758	AX1651+15	01261S+15	AX2951	01460S	S1418	00637
A2939	10413	AX1655	00996S	AX2953	01533S	S1418+15	00637+15
A2955	01586	AX1655+15	00996S+15	AX2957	01695S	S1422	00691
A3027	01761S	AX1719K	01312S	AX2959	10349S	S1430	00600
A3173	10625	AX1735	01693S	AX3029	01574S	S1432	00601
A3191	01786	AX1769	01133S	AX3403	02040S	S1460	00593
A3201	01791	AX1779	01294S	AX3477	02040S	S1462	00504
A3355	01917	AX1779+15	01294S+15	AX3517	01698S	S1476	00696
A3355+15	01917+15	AX1793	00793	AX3521	01698S	S1498	00659
A3406	02040S	AX1861	01497S	AX3525	10734S	S1538	01048
A3407	01731	AX1863	10060S	AX477	01294S	S1548	00755
A3409	01905	AX1939	01446	AX477+15	01294S+15	S1550	00883
A3413	01742	AX1941	00574S	AX631	10037	S1554	00874
A3415	01746	AX1945	01420S	AX633	10036S	S1584	01268
A3419	01936	AX1947	01018	AX867	01206S	S1586	00963
A3421	01729	AX1951	01217S	AX867+15	01206S+15	S1588	00938
A3423	01788	AX1953	01368S	AX969	00326S	S1588+15	00938+15
A3427	01744	AX1965	01375	ML107H	VL107	S1596	00603
A3429	01914	AX1967	00982S	ML116H	VL116	S1610	00958
A3431	01914	AX1971	01350S	ML120H	VL120	S1612	00975
A3435	01698S	AX1973	01145S	ML135H	VL135	S1628	00947
A3437	01754	AX1975	01468S	ML138H	VL138	S1634	01120
A3439	01925	AX1985	01431S	ML146H	VL146	S1634+15	01120+15
A3441	01937	AX1989	01037	ML149H	VL149	S1636	00949
A3449	01903	AX1991	01135S	ML150H	VL150	S1638	00918
A3457	10742	AX2005	01483S	ML171H	VL171	S1640	00969
A3461	10740	AX2007	01261S	ML2011H	VL89	S1644	01457
A3465	10549	AX2007+15	01261S+15	ML2012H	VL83	S1650	00988
A3467	10724	AX2013	00159	ML2056H	VL109	S1652	01107
A3489	10536	AX2021	00702	ML2083H	VL9	S1652+15	01107+15
A3491	10538	AX2029	01177S	ML2084M	VL31	S1654	01164
A3499	10736	AX2029+15	01177S+15	ML2089H	VL88	S1656	00997
A3501	10420	AX2033	01075S	ML2095H	VL94	S1662	01002
A3543	01811	AX2047	01506S	ML2102H	VL86	S1670	01001
A403	01542	AX2057	01474S	ML2104H	VL114	S1670+15	01001+15
A4214	10083	AX2065	01368S	ML2105H	VL87	S1682	01098
A4218	10064	AX2073	01525S	ML2148H	VL115	S1706	01170
A4322	10308	AX2093	01693S	ML2167H	VL106	S1706+15	01170+15
A619	10034S	AX2095	01523S	ML2205H	VL100	S1708	01082
		AX2101	01482S	ML2217H	VL113	S1712	01105
		AX2105	01305S	ML48M	VL48	S1714	01084
		AX2123	01504S	ML6000H	VL141	S1724	01073

Interchange Listing

DYNAGEAR/MANLEY (Cont'd)					
S1730	01103	S2042	10105	S2464	10322
S1732	01137	S2044	10145	S2466	10273
S1732+15	01137+15	S2046	10103	S2468	10270
S1734	01148	S2052	10107	S2488	10281
S1750	01087	S2054	10070	S2496	10307
S1750+15	01087+15	S2060	01557	S2512	10309
S1754	01365	S2060+15	01557+15	S2516	10015
S1756	01152	S2062	01512	S2518	10255
S1760	01238	S2064	01328	S2536	10310
S1760+15	01238+15	S2068	01567	S2538	10192
S1762	01172	S2070	01456	S2584	10387
S1764	01170	S2082	01479	S2584+15	10387+15
S1764+15	01170+15	S2114	01536	S2590	01757
S1776	01186	S2124	01505	S2592	01767R
S1778K	01180	S2124+15	01505+15	S2594	01768R
S1778K+15	01180+15	S2138	01481	S2596	01764R
S1790	01216	S2138+15	01481+15	S2600	01766R
S1792	00912	S2140	02057	S2602	01714
S1800	01161	S2144	01555	S2602+15	01714+15
S1804	01260	S2146	01553	S2604	01665
S1806	01258	S2148	01551	S2604	10434
S1806+15	01258+15	S2148+15	01551+15	S2654	10122
S1808	01293	S2152	10385	S2656	10197A
S1812	01323	S2152+15	10385+15	S2660	10436
S1814	01598	S2154	10118	S2662	10436
S1816	01285	S2170	01524	S2670	01712
S1818	01263	S2172	01654	S2672	10556
S1820	01272	S2180	01649	S2680	01703
S1820+15	01272+15	S2184	01783	S2684	01705
S1822	01362	S2184	01783	S2690	01806
S1830	01328	S2192	01538	S2692	01931
S1830+15	01328+15	S2198	10328A	S2694	10172
S1830+3	01328+3	S2202	10268	S2696	10516
S1836	01357	S2204	10078	S2698	10103
S1852	01442	S2214	10406	S2706	10226
S1860	01379	S2216	10141	S2708	10228
S1862	10061	S2218	01528	S2710	10224
S1870	10087	S2220	10127	S2724	10284
S1874	01380	S2224	01773R	S2732	10137
S1874+15	01380+15	S2226	01775R	S2736	10506
S1876	01388	S2228	01726	S2738	10552
S1880	01382	S2240	01546	S2740	10518
S1888	01395	S2248	01507	S2744	10305
S1896	01449	S2252	01762R	S2748	10473
S1900	01452	S2256	01763R	S2756	10524
S1902	01450	S2262	01543	S2758	10541
S1922	01393	S2262+15	01543+15	S2760	10432
S1922+15	01393+15	S2274	01711	S2762	10543
S1924	01193	S2284	01548	S2764	10206
S1924+15	01193+15	S2284+15	01548+15	S2768	01707
S1924+3	01193+3	S2302	01765R	S2772	10520
S1926	00609	S2304	01774R	S2774	10522
S1930	01042	S2366	01592	S2782	10147
S1934	00678	S2366+15	01592+15	S2792	01781
S1936	00160	S2380	01598	S2804	10502
S1940	00852S	S2386	10162	S2808	10213
S1942	01204	S2388	01699	S2814	10314
S1954	00230	S2390	10234	S2816	10275
S1956	00922	S2396	10147	S2818	10169
S1958	01423	S2400	10126A	S2820	10103
S1960	01234	S2402	01671	S2826	10157
S1966	00983	S2406	10314	S2830	10234
S1968	01598	S2408	10143	S2832	10216
S1980	00703	S2412	10176	S2836	10562
S1988	01403	S2416	01673	S2838	01709
S1992	00924	S2422	10117	S2844	01701
S1994	01528	S2428	01107	S2858	10495
S1998	01543	S2430	01598	S2860	10534A
S2006	01484	S2432	10247	S2864	10500
S2012	01526	S2434	10243	S2868	01598
S2018	00867	S2436	10236	S2880	10496
S2034	01450	S2438	10145	S2884	10218
S2038	01569	S2442	10143	S2892	01736
		S2450	10299	S2896	10367
		S2452	10190	S2904	10498
		S2454	10195	S2906	01508
		S2456	01598	S2908	01589
				S2910	01471S
				S2912	01296
				S2918	01532
				S2920	01660
				S2922	01665
				S2930	10348
				S2938	01194
				S2940	01404
				S2950	01663
				S2952	01931
				S2976	10624
				S3004	00734
				S3038	01826
				S3122	01273
				S3166	01792
				S3168	01723
				S3188	01785
				S3200	01789
				S3214	01858
				S3344	01916
				S3344+15	01916+15
				S3404	10784
				S3406	01730
				S3408	01901
				S3410	01904
				S3414	01741
				S3418	01745
				S3420	02044
				S3422	02044
				S3424	01728
				S3426	01787
				S3428	01790
				S3434	01743
				S3436	01913
				S3438	01913
				S3442	01924
				S3444	01941
				S3446	01929
				S3448	01739
				S3456	01902
				S3464	10739
				S3466	10547
				S3470	10723
				S3478	10784
				S3492	10537
				S3498	10735
				S3500	10321
				S3502	10421
				S3522	10742
				S3532	01810
				S4026	10076
				S4028	10065
				S408	01195
				S408+15	01195+15
				S620	10030
				S632	10048
				S636	10031
				S638	10056
				S767	00298
				S782	00122
				S786	00302
				S840	00810
				S868	00308
				S914	00376
				S920	00373
				SX1328	00531S
				SX1436	01057S
				SX1436+15	01057S+15
				SX1878	01384S
				SX1878+15	01384S+15
				SX1928	01036S
				SX1962	01289
				SX1964	01336S
				SX1970	01351S
				SX1972	01146S
				SX1974	01462S

Interchange Listing

DYNAGEAR/MANLEY (Cont'd)	01695SEA	01695S	30664	SB1687-2	31124	SB2125-32
	01709	01709	30667	SB1812-4	31125	SB1375-6
	01717SEA	01717S	30676	SB1687-11	31129	SB1750-0
	01720SEA	01720S	30678+5	SB1687-7+005	31131	SB1812-19
	01721SEA	01721S	30680	SB1812-21N	31134	SB1937-30
	01738SEA	01738S	30690	SB2000-36	31135	SB2187-1
	01760SEA	01760S	30692	SB2000-17	31139	SB1375-62
	01760SEA	01761S	30694	SB2000-18	31142	SB1062-4
	01830SEA	01830S	30698	SB2006E-5	31143	SB1125-4
	01831SEA	01831S	3069810	SB2006E-5+010	31145	SB1187-5
	01900SEA	01900S	30699	SB2000-16	31146	SB1187-51
	01910SEA	01910S	30700	SB2006E-1	31148	SB1250-12
	01944SEA	01944S	3070010	SB2006E-1+010	31152	SB1250-2
	01946SEA	01946S	3070020	SB2006E-1+020	31153	SB1312-10
	02084EA	02084	307005	SB2006E-1+005	31155	SB1312-5
	02095EA	02095	30701	SB2000-29	31156	SB1375-10
	02131EA	02131	30703	SB2006E-2	31161	SB1437-5
	02160SEA	02160S	30703+20	SB2006E-2+020	31165	SB1750-17
	02161SEA	02161S	30707	SB1500-8	31169	SB1142E-2
	02168SEA	02168S	30709	SB1500-9	31172	SB1260E-1
	02175EA	02175	30713	SB1500-28	31175	SB1378E-1
	02176EA	02176	30714	SB1500-12	31177	SB1457E-2
	02179EA	02179	30715	SB1500-0	31179	SB1535E-1
	02180EA	02180	30718	SB1505E-1	31183	SB1654E-3
	02187EA	02187	30723	SB2000-12	31186	SB1693E-4
	02188EA	02188	30724	SB2000-13	31188	SB1811E-1
	02231EA	02231	30725	SB2000-6	31189	SB1890E-2
	02237EA	02237	30727	SB2000-14	31193	SB2008E-2
	02238EA	02238	30729	SB2000-0	31194	SB2047E-1
	02239EA	02239	30730	SB2000-27	31195	SB2087E-2
	02254EA	02254	30731	SB1562-18	31205	SB1500-77
	02255EA	02255	30732	SB1625-14	31227	SB1772E-2
	02257EA	02257	30736	SB1312-9	31228	SB1850E-2
	02260SEA	02260S	30774	SB1312-4	31234	SB1625-17
02261EA	02261	30779	SB1312-67	31240	SB2125-31	
10767SEA	10767S	30787	SB1375-18	31248	SB1375-22	
13001EA	13001	30792	SB1375-0	31249	SB2062-25	
13006EA	13006	30793	SB1187-52	31251	SB1562-74	
13033EA	13033	30793	SB1375-64	31269	SB1812-17	
13073EA	13073	30803	SB1437-6	31270	SB1687-0	
13074EA	13074	30822	SB1500-6	31280	SB2000-11	
13083SEA	13000	30838	SB1562-8	31283	SB1812-12	
13083SEA	13083S	30839	SB1562-11	31289	SB1312-6	
13121EA	13121	30840	SB1562-36	31329	SB1437-56	
13122EA	13122	30853	SB1625-29	31352	SB1187-2	
13151EA	13151	30854	SB1625-20	31371	SB1600E-1	
13161EA	13161	30857	SB1625-11	31374	SB1687-55	
13162EA	13162	30868	SB1669E-1	31459	SB1812-0	
13163EA	13163	30871	SB1687-12	31470	SB2250-20	
13176EA	13176	30873	SB1687-16	31491	SB1687-33	
13177SEA	13177S	30889	SB1750-6	31495	SB1875-50	
13178SEA	13178S	30905	SB1812-11	31497	SB1937-2	
13192SEA	13192S	30920	SB1875-14	31600	SB1000-1	
13193EA	13193	30923	SB1875-11	31602	SB1062-51	
13246EA	13246	30935	SB1937-23	31603	SB1125-55	
13247EA	13417	30952	SB2000-7	31604	SB1125-51	
30001	SB1812E-4T	30963	SB2062-3	31607	SB1125-53	
30013	SB1375-50	30991	SB2312-9	31608+10	SB1161E-1+010	
30106	SB1500-71	30994	SB2375-2	31608+20	SB1161E-1+020	
30238	SB1375-56	31000	SB1812-10	31610	SB1187-7	
30280	SB1161E-1	31031	SB1437-3PM	31611	SB1187-54	
30530	SB1812-3	31031	SB1625-54	31612	SB1250-63	
30560	SB1937-1	31032	SB1500-10	31614	SB1250-61	
30642	SB1630E-1	31042	SB1687-29	31615	SB1250-59	
30642	SB1630E-1N	31046	SB1625-33	31616	SB1250-62	
30644+10	SB1562-4+010	31047	SB1062-50	31617	SB1250-53	
30648+10	SB1625-1+010	31053	SB1250-3	31620	SB1250-60	
30648+5	SB1625-1+005	31053	SB1781E-1N	31622	SB1312-3	
30652	SB1750-8N	31054	SB1250-52	31625	SB1312-63	
30653	SB1750-8	31058	SB1312-62	31635	SB1375-55	
30654	SB1750-9	31058	SB1312-68	31637	SB1375-63	
30658	SB1687-17	31091	SB1875-0	31638	SB1375-60	
30658	SB1750-2	31092	SB1875-56	31641	SB1441E-1	
30658+10	SB1750-2+010	31097	SB1125-5	31647	SB1437-66	
30660	SB1750-13	31104	SB1562-31	31648	SB1437-60	
30662	SB1625-6	31105	SB1250-58	31649	SB1437-61	

Interchange Listing

ELGIN (Cont'd)					
31650	SB1437-74	32011	SB1500-70	35070	SB2000-24
31651	SB1437-75	32012	SB1500-56	35071	SB2000-25
31659	SB1437-72	32013	SB1250-50	35072	SB2000-34
31670	SB1516E-1	32015	SB1562-72	35073	SB2000-50
31673	SB1562-77	32017	SB1437-51	35074	SB2000-51
31679	SB1609E-1	32018	SB1875-57	35075	SB2000-9
31680	SB1628E-2	32019	SB1375-61	35076	SB1562-29
31680+10	SB1628E-2+010	32020	SB1969E-4N	35077	SB2051E-4
31680+20	SB1628E-2+020	32021	SB1693E-8N	35078	SB2062-13
31682	SB1628E-3	32022	SB1691E-1	35079	SB2062-20
31683	SB1625-8	32022+10	SB1691E-1+010	35080	SB2062-21
31686	SB1625-63	32023	SB1691E-2	35081	SB2062-23
31691	SB1625-64	32023+10	SB1691E-2+010	35082	SB2062-27
31692	SB1625-50	32026	SB2129E-2	35083	SB2062-29
31697	SB1657E-1	32028	SB1847E-1	35083	SB2100E-1
31699	SB1670E-1	32032	SB1875-38	35085	SB2062-5
31701	SB1681E-3	32033	SB1973E-1	35086	SB2062-9
31701	SB1690E-1	32035	SB1750-4N	35088	SB2125-15
31709	SB1722E-1	32038	SB1969E-3	35089	SB2125-16
31722	SB1782E-1	32040	SB1953E-3	35092	SB2125-21
31722+15	SB1782E-1+015	32041	SB1953E-2C	35095	SB2125-30
31724	SB1814E-1	35000	SB1062-2	35097	SB2125-39
31726	SB1817E-3	35001	SB1062-3	35098	SB2125-8
31726+20	SB1817E-3+020	35002	SB1062-5	35099	SB2129E-2
31726+40	SB1817E-3+040	35003	SB1062-6	35102	SB2187-31
31729	SB1819E-1	35004	SB1187-12	35104	SB2187-7
31731	SB1831E-1	35005	SB1187-4	35105	SB2187-8
31731+15	SB1831E-1+015	35006	SB1312-0	35106	SB2187-9
31731+30	SB1831E-1+030	35007	SB1312-13	35107	SB2244E-1
31731+5	SB1831E-1+005	35008	SB1312-16	35109	SB2250-16
31734	SB1853E-1	35009	SB1312-2	35110	SB2250-18
31739	SB1880E-2	35010	SB1375-25	35112	SB2250-21
31741	SB1875-54	35011	SB1375-27	35115	SB2250-37
31743	SB1900E-2	35012	SB1437-22	35116	SB2250-5
31743	SB1900E-3	35013	SB1500-19	35117	SB2250-7
31744	SB1900E-1	35014	SB1500-23	35118	SB2284E-2
31746	SB1912E-1	35015	SB1500-26	35119	SB1750-43
31748	SB1937-12	35016	SB1500-33	35121	SB2312-11
31753	SB1969E-2	35017	SB1539E-2	35122	SB2312-16
31756	SB2001E-1	35018	SB1562-13	35125	SB2312-8
31756+10	SB2001E-1+010	35020	SB1562-15	35126	SB2323E-2
31756+13	SB2001E-1+013	35023	SB1562-26	35127	SB2375-15
31757	SB2003E-1	35026	SB1562-39	35128	SB2367E-1
31758	SB2004E-2	35027	SB1562-78	35128	SB2387E-1
31765	SB2020E-1	35030	SB1625-15	35129	SB2441E-1N
31766	SB2049E-1	35032	SB1625-41	35130	SB2503E-1
31768	SB2062-8	35033	SB1681E-1	35131	SB2503E-2
31770	SB2062-30	35034	SB1687-14	35131	SB2506E-2
31771+30	SB2088E-1+030	35035	SB1687-19	35132	SB2506E-1
31772	SB2129E-1	35038	SB1687-35	35133	SB2520E-1
31773	SB2125-3	35039	SB1687-42	35135	SB1264E-1
31777	SB2125-11	35042	SB1695E-1	35139	SB1656E-1
31780	SB2131E-1	35044	SB1750-20	35139	SB1814E-4C
31780+20	SB2131E-1+020	35045	SB1750-24	35149	SB1088E-1
31782	SB2150E-1	35046	SB1750-25	35154	SB1832E-1
31783	SB2165E-1	35047	SB1811E-2N	35155	SB1638E-2
31786	SB2220E-1	35047	SB1811E-3	35156	SB1951E-1
31787	SB2250-13	35048	SB1812-14	35158	SB2126E-2
31792	SB2444E-1	35049	SB1812-16	35163	SB2387E-2
31827	SB1812E-3	35050	SB1812-24	35164	SB2013E-1
31827	SB1812E-8	35051	SB1812-25	35165	SB1697E-1
31843	SB1812E-4	35052	SB1812-34	36010	SB1125-52
31843+10	SB1812E-4+010	35053	SB1812-36	39960	SB1750-68
31843+20	SB1812E-4+020	35054	SB1823E-1	39961	SB2125-34
31844	SB2381E-1	35055	SB1856E-1	50722	140-9116
31868	SB1187-53	35056	SB1857E-1	509105	140-9105
32000	SB1875-8	35057	SB1875-12	50953	140-1953
32002	SB1562-51	35058	SB1875-21	50953	140-1976
32003	SB1437-53	35059	SB1875-33	50954	140-1977
32004	SB1312-52	35060	SB1875-39	51009	140-1697
32007	SB1812-56	35061	SB1880E-1	51019	140-1758
32008	SB1625-60	35062	SB1891E-1	51020	140-1453
32009	SB1687-56	35064	SB1933E-2	51021	140-1527
32010	SB1625-59	35065	SB1937-0	51023	140-1680
		35066	SB1937-10	51023T	140-1680
		35068	SB1937-9	51025	140-1338
				51027	140-1337
				51048	140-7548
				51050	140-6990
				51130	140-1952
				51135	140-1953
				51140	140-1965
				51174	140-1898
				51180	140-1896
				51181	140-1957
				51194	140-1970
				51197	140-6053
				51256T	140-1969
				51310	140-1809
				51310	140-1810
				51315	140-7592
				51342	140-1342
				51343	140-1504
				51458	140-1458
				51470	140-1470
				51503	140-1503
				51545	140-1545N
				51547	140-1547N
				51579	140-1881
				51593	140-1593
				51614	140-1614
				51644	140-1644
				51704	140-1704
				51711	140-1711
				51725	140-1966
				51726	140-1726
				51732	140-1732
				51733	140-1733
				51736	140-1937
				51745	140-1745
				5178	140-1578
				51802	140-1543
				51804	140-1804
				51809	140-1809
				51816	140-7604
				51820T	140-1878
				51821T	140-1821
				51823T	140-1823
				51825	140-1973
				51826	140-1972
				51828	140-9208
				51832	140-1832
				51832T	140-1832
				51837	140-7456
				51838	140-1919
				51839	140-1839
				51839	140-7337
				51888	140-1888
				51889	140-1899
				51906	140-1906N
				5194	140-1515
				51942	140-7994
				51943	140-1943
				51944	140-1944
				51946	140-1946
				51946+2	140-1946+2
				51946+5	140-1946+5
				51947	140-1947
				51969	140-1969
				52200	140-1962
				52201	140-7194
				52223	140-8420
				52224	140-3737
				52224	140-7610
				52234	140-7255
				52236	140-7994
				52244	140-7431
				52251	140-7448
				52253	140-7429N
				52254	140-7451N
				52254+2	140-7451N+2
				52255	140-9705

Interchange Listing

ELGIN (Cont'd)							
	54418+6	140-7575+6	55118	140-7946	57242	140-7242	
	54426	140-7542	55119	140-6107	57255	140-9705	
	54428	140-7499	551668	140-1747	57255G	140-7255	
52256	140-7822	54448	140-9205	551670	140-7174	140-7264	
52261	140-7589	54458	140-9557	551836	140-7876	57278	140-7278
52262	140-7714	54468	140-7659	556896	140-6896H	57306G	140-8156
52262+2	140-7714+2	54524	140-7523	556897	140-6897H	57308G	140-8203
52263	140-7713	54524+2	140-7523+2	559460	140-9460H	57309G	140-8216
52264	140-9715	54551	140-7710	559607	140-9607H	57312G	140-8274
52265	140-9716	54552	140-7828	559964	140-9964H	57318G	140-8155
52271	140-9846	54555	140-8021	559977	140-9977	57321G	140-8217
52273	140-7689	54556	140-8038	56011	140-7279	57322G	140-8189
52273	140-7712	54560	140-7545	56012	140-7552	57322G	140-8255
52277	140-7661	54560	140-7575	56016	140-7447	5732G	140-8291
52278	140-7662	54561	140-7826	56105	140-7562	57338	140-7338
52579	140-1579	54562	140-7827	56254	140-6254	57357	140-7357
53001	140-3001	54562	140-8233	56254+5	140-6254+5	57357	140-7550
53006	140-3006	54563	140-8773	56905	140-6905	57458	140-9557
53007	140-3007	54564	140-8017	57001	140-6587	57495	140-7495
53014	140-3014	54566	140-7532	57005	140-9607	57507	140-7507
53019	140-3019	54567	140-7529	57006	140-9606	57571	140-8200
53023	140-3023	54941	140-4941	57007	140-9604	57572	140-8205
53026	140-3026	55001	140-1908	57008	140-9609	57573	140-8186
53027	140-3027	55005	140-5607	57009	140-9298	57574	140-8187
53028	140-3028	55005B	340-1020BR	57010	140-9119	57575	140-8172
53029	140-3029	55006	140-5606	57011	140-9554	57577	140-8142
53031	140-3031	55007	140-5604	57012	140-9612	57580	140-8193
53032	140-3032	55009	140-7298	57016	140-9110	57581	140-8194
53033	140-3033	55010	140-6119	57017	140-9108	57582	140-7825
53034	140-3034	55011	140-7554	57019	140-9105	57584	140-8190
53035	140-3035	55012	140-5612	57020	140-9869	57585	140-8191
53036	140-3036	55014	140-9197	57021	140-9114	57588	140-8211
53038	140-3038	55016	140-6110	57022	140-9116	57589	140-8212
53039	140-3039	55016B	340-1027BR	57023	140-9115	57590	140-8209
53042	140-3042	55017	140-6108	57023G	140-9115	57591	140-8143
53043	140-3043	55017B	340-1028BR	57024	140-9259	57592	140-8195
53046	140-3046	55019	140-6105	57025	140-9106	57593	140-8147
53047	140-3047	55020	140-6869	57025G	140-9106	57595	140-8201
53048	140-3048	55021	140-6114	57026	140-9872	57596	140-8202
53049	140-3049	55021B	340-1031BR	57027	140-9867	57599	140-8208
53050	140-3050	55022	140-6116	57033	140-9458	57600	140-8207
53051	140-3051	55023	140-6115	57040	140-9977	57601	140-7830
53052	140-3052	55024	140-7259	57051	140-9206	57603	140-8018
53053	140-3053	55025	140-6106	57051G	140-9206	57607	140-9204
53054	140-3054	55026	140-6872	57060	140-9260	57615	140-7999
53055	140-3055	55027	140-3015	57070	140-9111	57616	140-8180
53058	140-3058	55027	140-6867	57073	140-8016	57616+2	140-8180+2
53059	140-3059	55031	140-7459	57076	140-8039	57617	140-8158
53067	140-3067	55032	140-7546	57076+2	140-8039+2	57618	140-8157
53068	140-3068	55033	140-7458	57077	140-9198	57621	140-8203
53070	140-3070	55034	140-1907	57077G	140-9198	57625	140-8139
53079	140-3079	55034	140-1909	57082	140-8040	57663	140-7663
53098	140-3098	55035	140-7197	57082G	140-8040	57669	140-7669
53101	140-3101	55035	140-9197	57102	140-9560	57679	140-7679
53112	140-3112	55036	140-6905	57103	140-9873	57681	140-7681
53118	140-3118	55040	140-6977	57104	140-9523	57681	140-8357
53119	140-3119	55051	140-9206	57106	140-9584	57682	140-7682
53123	140-3123	55060	140-7260	57108	140-9459	57903	140-7903
53127	140-3127	55070	140-6111	57109	140-7847	58008	140-8008
53128	140-3128	55077	140-7198	57110	140-9848	58010	140-8010
53129	140-3129	55082	140-7444	57112	140-9460	58023	140-8023
53130	140-3130	55084	140-7457	57112+2	140-9460H+2	5803	140-1421
53131	140-3131	55096	140-7528	57113	140-9113	58105	140-8105
53134	140-3134	55097	140-7527	57113G	140-9113	58118	140-3143
53135	140-3135	55103	140-6873	57116	140-9610	58122	140-8122
53136	140-3136	55104	140-6523	57117	140-9109	58134	140-8134
53137	140-3137	551043	140-1817	57118	140-8407	58144	140-8144
53145	140-3145	551047	140-1968	57118	140-9946	5815	140-1577
54380	140-7359	551047	140-7860	57119	140-9107	58161	140-8161
54404	140-7395	551047	140-8223	57123	140-8219	58168	140-8168
54406	140-7713	55112	140-7460	57124	140-8114	58177	140-8177
54408	140-7714	55113	140-6113	57125	140-8115	58178	140-8178
54414	140-7577	55113	140-9113	57126	140-8124	58188	140-8188
54415	140-7576	55116	140-5610	57127	140-8112	58210	140-8210
54416	140-7574	55117	140-6109	57128	140-8113	58213	140-8213
54418	140-7575	55118	140-3016	57216	140-7216	58218	140-8218
54418+2	140-7575+2						

Interchange Listing

ELGIN (Cont'd)							
58273	140-8273	58720	140-8564	71031	SB1437-2N	A1875125280	SB1875-50
58277	140-8277	58721	140-8565	71621	SB1262E-1	A1937109315	SB1937-51
5835	140-1717	58722	140-8552	71621+10	SB1262E-1+010	A1937123379	SB1937-52
58356	140-8356	58726	140-1823	71621+20	SB1262E-1+020	A892-4	VL21
58383	140-3144	58728	140-3021	71671	SB1536E-2N	E1049	00154
58409	140-8409	58729	140-3022	71681	SB1628E-1N	E1051	00205
58418	140-8418	58730	140-8715	71694	SB1638E-1N	E1077	00400
58419	140-8419	58731	140-3008	71696	SB1654E-1N	E1077+15	00400+15
5847	140-1600	58732	140-7625	71704	SB1687E-1N	E1099	00486
58494	140-8494	58733	140-1941	71704	SB1693E-1N	E1105	00348
58531	140-3037	58734	140-7336	71710	SB1733E-2N	E1235	00168
58535	140-8535	58736	140-8476	71735	SB1858E-1N	E1235	00626
58536	140-8536	58737	140-8562	71757	SB2003E-1N	E1265	00520
58547	140-8547	58738	140-7248	71759	SB2004E-4N	E1267	00518
58548	140-8548	5875	140-1914	71761	SB2004E-3N	E1271	00185
58555	140-8555	5880	140-1880	71775	SB1991E-1N	E1335	00549
58556	140-8556	59108H	140-9108H	71780	SB2136E-1N	E1349	00746S
58558	140-8558	5913	140-1678	71780	SB2212E-1N	E1349	01265
58559	140-8559	5914	140-1515	71847	SB2368E-2N	E1353	00564
58567	140-8567	5915	140-1723	71869	SB1692E-1N	E1355	01242
58569	140-8569	5918	140-1620	71869+15	SB1692E-1N+015	E1355	01242+15
58574	140-8574	5920	140-1636	71869+30	SB1692E-1N+030	E1371	00489
58575	140-8575	59208	140-7208	71869+5	SB1692E-1N+005	E1459	00592
58582	140-8582	59208	140-9208	751SEA	00751S	E1497	00658
58583	140-8583	5923	140-1854	752SEA	00752S	E1539	01047
58590	140-8590	5924	140-1853	91845	SB2381E-2C	E1549	00882A
58591	140-8591	5925	140-1851	A1250126230	SB1250-56	E1549	13136
58592	140-8592	5926	140-1852	A1312082305	SB1312-50	E1553	00608
58658	140-8658	5927	140-6730	A1312107293	SB1312-53	E1555	00873
58659	140-8659	5928	140-1873	A1312116305	SB1312-56	E1555	13103
58663	140-8663	5929	140-1875	A1312130280	SB1312-57	E1559	00759
58670	140-8670	5938	140-1830	A1312137316	SB1312-64	E1567	00742
58671	140-8671	5939	140-1874	A1375116280	SB1375-51	E1585	01266
58673	140-8673	5940	140-1673	A1375137410	SB1375-52	E1587	01358
58674	140-8674	5942	140-1829	A1375145230	SB1375-54	E1587+15	01177S+15
58676	140-8397	5943	140-1872	A1437084255	SB1437-67	E1589	01329
58677	140-8577	5947	140-1865	A1437097316	SB1437-68	E1589+15	01329+15
58679	140-8579	5952	140-1956	A1437102305	SB1437-50	E1611	00976
58681	140-8662	5952	140-3100	A1437111315	SB1437-56	E1635	01332
58682	140-3012	5954	140-1977	A1437125297	SB1437-62	E1635+15	01332+15
58683	140-8561	59546	140-9546	A1437159300	SB1437-66	E1639	00970
58684	140-8560	5956	140-1858	A1437172322	SB1437-65	E1643	00974
58685	140-8388	5957	140-1859	A1500094307	SB1500-54	E1649	00919
58686	140-8389	5960	140-1860	A1500094345	SB1500-63	E1651	01106
58687	140-8545	5961	140-1897	A1500102310	SB1500-62	E1651+15	01106+15
58688	140-8324	5963	140-8004	A1500114214	SB1500-74	E1661	01378
58689	140-8292	59690	140-9690	A1500125280	SB1500-50	E1669	01000
58690	140-8292	5986	140-7408	A1500131307	SB1500-53	E1669+15	01000+15
58691	140-8293	5989	140-7450	A1500135278	SB1500-73	E1683	01097
58692	140-3009	5990	140-1814	A1500144315	SB1500-58	E1685	01093
58692+2	140-3009+2	59907	140-9907	A1500148316	SB1500-57	E1705	01072
58693	140-8584	59908	140-9908	A1500164300	SB1500-75	E1709	01188
58695	140-3010	5991	140-1813	A1562078280	SB1562-50	E1713	01189
58696	140-3011	5992	140-6469	A1562099319	SB1562-67	E1715	01083
58697	140-8593	5993	140-6470	A1562109344	SB1562-54	E1717	01156
58698	140-8666	59964	140-9964	A1562137280	SB1562-66	E1717+15	01156+15
58699	140-8668	5997	140-6881	A1562175317	SB1562-69	E1721	01307
58700	140-7656	59972	140-9972	A1625098300	SB1625-53	E1731	01102
58701	140-9973	59972+3	140-9972+3	A1625102315	SB1625-52	E1735	01147
58702	140-8256	5998	140-7813	A1625125317	SB1625-56	E1761	01237
58703	140-3025	70000	SB2366E-2N	A1625137315	SB1625-58	E1763	01171
58704	140-3024	70503	SB1562-2N	A1625156300	SB1625-62	E1765	01169
58705	140-8580	70558	SB1375-1N	A1687062305	SB1687-51	E1765+15	01169+15
58706	140-8581	70559	SB1687-4N	A1687125297	SB1687-54	E1772	01199
58707	140-8572	70640	SB1562-6N	A1750070310	SB1750-61	E1777	01179
58707	140-8572	70646	SB1625-2N	A1750075280	SB1750-51	E1785	01212
58708	140-8573	70672	SB1812-5N	A1750082307	SB1750-52	E1787	01210
58709	140-8543	70673	SB1687-3N	A1750102302	SB1750-60	E1791	01215
58710	140-8544	70677	SB1687-5N	A1750141276	SB1750-65	E1797	01245
58712	140-8585	70700	SB2003E-3N	A1812075307	SB1812-51	E1799	01247
58713	140-8578	70700	SB2006E-1N	A1812100315	SB1812-53	E1803	01160
58714	140-8587	70711	SB1500-1N	A1812114315	SB1812-54	E1805	01325
58716	140-8554	70726	SB2000-3N	A1812116307	SB1812-50	E1807	01257
58717	140-8571	70786	SB1375-3N	A1812131278	SB1812-55	E1809	01292
58718	140-7498	70840	SB1562-36N	A1812165315	SB1812-52	E1813	01322
58719	140-8204	71030	SB1437-3N	A1875094317	SB1875-51	E1817	01324

Interchange Listing

ELGIN (Cont'd)					
E1819	01271	E2431	10128A	E3465	10549
E1827	01321	E2433	01670	E3467	10724
E1829	01310	E2437	10144	E3477	02040S
E1831	01327	E2447	01674	E3483	13274S
E1833	01300	E2451	10177	E3489	10536
E1835	01354	E2453	10315	E3491	10538
E1837	01361	E2464	10322	E3499	10736
E1849	01326	E2469	10163	E3501	10420
E1853	01441	E2473	10244	E4214	10083
E1863	10060S	E2475	10237	E4218	10064
E1875	01367	E2489	10300	E4322	10308
E1877	01387	E2491	10191	E5017	01919
E1881	01381	E2493	10196	E5019	01917
E1889	01394	E2495	10414	E5019+15	01917+15
E1891	01135	E2497	10164	E5021	01992
E1901	01451	E2499	10311	E5023	01994
E1907	01399	E2509	10340A	E5025	02047
E1911	01814	E2519	10315	E5027	02054
E1921+15	01266+15	E2521	10323	E5045	10795
E1923	01192	E2531	10271	E5053	01519
E1923+3	01192+3	E2553	10256	E5055	01662S
E1931	01041	E2579	10386	E5059	02010S
E1957	00921	E2633+15	01715+15	E5065	01579S
E1981	01419	E2637	01664	E5071	02119
E1981+15	01419+15	E2655	10435	E5073	10803S
E198115	01419+15	E2659	10546	E5079	02035
E1983	01417	E2681	01704	E5081	02036
E1991	01135	E2683	01702	E5083	02009
E199115	01135+15	E2689	01807	E5085	02007
E1995	01527	E2697	10517	E5087	01999
E1999	01358	E2715	10229	E5089	02007
E2001	01542	E2735	10138	E5101	10437
E2027	01156	E2739	10507	E5105	10781
E2045	01309	E2751	10474	E5107	01950
E2049	01389	E2759	10525	E5109	02173
E2083	01556	E2761	10542	E5119	01862
E2141	01480	E2763	10544	E5123	10779
E2141+15	01480+15	E2765	10207	E5127	02182S
E2143	02058	E2767	10198A	E5131	10799
E2147	01554	E2769	01706	E5136	00703
E2149	01552	E2771	10521	E5137	01801
E215115	01550+15	E2773	10523	E5139	02015
E2163	10104	E2787	01713	E5147	00758
E2165	10146	E2787	10548	E5149	00702
E2189	10069	E2793	01782	E5165	02195
E2197	10106	E2809	10503	E5167	02197
E2199	10330A	E2823	10170	E5169	10807
E2215	10142	E2831	10159	E5171	02220
E2217+15	01556+15	E2833	10235	E5171B	02220
E2221	10129	E2841	10563	E5179	02246
E2227	01646S	E2843	01708	E5181	02193
E2233	01455	E2863	10497	E5183	02265
E2237	01397	E2865	10499	E5189	10817
E2241	01545	E2867	10501	E5191	10809
E2247	01504	E2925	01675	E5193	10811
E2255	01770R	E2927	01531	E5195	13046
E2265	01727	E2931	01758	E5197	10815
E2275	10116	E2939	10413	E5199	02235
E2281	10153	E3173	10625	E5203	02240
E2283	01535	E3191	01786	E5205	13082
E2285	10386	E3223	01735	E5213	13039
E228515	10386+15	E3407	01731	E5215	13042
E2289	01648	E3409	01905	E5217	13044
E2297	01653	E3415	01746	E5221	13078
E2317	01710	E3419	01936	E5223	13080
E2359	01547	E3421	01729	E5227	13087
E2397	01591	E3423	01788	E5229	13089S
E239715	01591+15	E3427	01744	E5231	13183
E2413	01597	E3431	01914	E5233	13191
E2419	01537	E3439	01925	E5235	13195
E2421	01698	E3439	01925S	E5239	13207
E2425	10235	E3441	01937	E5241	13209
E242715	10388+15	E3445	01935	E5243	13214
E2429	10148	E3449	01903	E5247	13200
		E3461	10740	E5249	13212
		E3463	10813	E5251	13226
				E5259	13230
				E5261	13238
				E5269	13198
				E5271	13205
				E5273	13264
				E5277	13262
				E5279	13260
				E5285	13266
				E5287	13295
				E5289	13289
				E5291	13287
				E5725	13277
				E701	00270
				E713	00212
				E727	00100
				E781	00121
				E785	00303
				E841	00196
				E843	00210
				E861	00170
				E871	00327
				E871	00411
				E891	00249
				E911	00375
				E949	00234
				EA600	00600
				EA601	00601
				EC1303	00530SN
				EC1637	00917SN
				EC163715	00917SN+15
				EC1879	01383SN
				EC1879+15	01383SN+15
				EC1977	01385SN
				EC1977+15	01385SN+15
				EC1979	01241SN
				EC3263	01832SN
				EHC01027	121-1027
				EHC01073	121-1073
				EHC0217	121-1021
				EHC0310	121-1002
				EHC101K	220-1026
				EHC102K	220-1014
				EHC109S	220-1085
				EHC110K	220-1016
				EHC112K	220-1024
				EHC113K	220-1004
				EHC114K	220-1023
				EHC119K	220-1101
				EHC121S	220-1083
				EHC124S	220-1052
				EHC126S	220-1098
				EHC165	121-1065
				EHC206	121-1084
				EHC213	121-1026
				EHC217	121-1018
				EHC217	121-1118
				EHC221	121-1049
				EHC222	121-1069
				EHC224	121-1020
				EHC227	121-1054
				EHC2330	220-1031
				EHC2332	220-1060
				EHC2337	220-1017
				EHC2337	220-1095
				EHC2341	220-1071
				EHC2353	220-1030
				EHC2353	220-1086
				EHC237	121-1052
				EHC2387	220-1008
				EHC2392	220-1006
				EHC2420	220-1010
				EHC2426	220-1099
				EHC2780	121-1058
				EHC2781	121-1074
				EHC2782	121-1090
				EHC2783	121-1085

Interchange Listing

ELGIN (Cont'd)							
EHC27841	121-1079	EOS2100	122-1205	EOS9107	122-1328	EX1655	00996S
EHC2785	121-1031	EOS2100	122-1334	EOS9109	122-1322	EX1655	01235S
EHC2786	121-1063	EOS2101	122-1215	EOS910PA	122-1045	EX1655+15	00996S+15
EHC2788	121-1059	EOS2102	122-1216	EOS910PA	122-1287	EX1735	01693S
EHC2789	121-1062	EOS2104	122-1226	EOS9110	122-1320	EX1769	01133S
EHC2792	121-1086	EOS2105	122-1356	EOS9111	122-1302	EX177915	01294S+15
EHC2793	121-1087	EOS2107	122-1252	EOS9112	122-1300	EX1793	00793
EHC2795	121-1082	EOS2110	122-1276	EOS9113	122-1274	EX1867	01807S
EHC2797	121-1080	EOS2112	122-1314	EOS9114	122-1258	EX1875+15	01367+15
EHC2800	121-1071	EOS2115	122-1324	EOS9115	122-1259	EX1879	01383SN
EHC2801	121-1076	EOS2117	122-1327	EOS9116	122-1254	EX1935	01368S
EHC2802	121-1078	EOS2118	122-1329	EOS9118	122-1242	EX1951	01217S
EHC2803	121-1089	EOS2119	122-1332	EOS911PA	122-1035	EX1975	01468S
EHC2807	121-1093	EOS2120	122-1333	EOS9121	122-1269	EX1985	01431S
EHC2808	121-1094	EOS231PA	122-1040	EOS9123	122-1224	EX2005	01483S
EHC2809	121-1095	EOS240B	122-1043	EOS9124	122-1217	EX2007	01261S
EHC2810	121-1096	EOS253	122-1046	EOS9125	122-1218	EX2029	01177S
EHC2811	121-1097	EOS254	122-1051	EOS9126	122-1177	EX2029+15	01358+15
EHC2812	121-1100	EOS450	122-1270	EOS9131	122-1370	EX2047	01506S
EHC2813	121-1101	EOS450PA	122-1038	EOS9131	122-1371	EX2073	01525S
EHC2814	121-1102	EOS530PA	122-1041	EOS9132	122-1212	EX2101	01482S
EHC2815	121-1103	EOS535	122-1079	EOS9134	122-1378	EX2169	10102S
EHC2817	121-1105A	EOS713	122-1003	EOS9140	122-1365	EX2169	10302
EHC2819	121-1107	EOS766PA	122-1034	EOS9141	122-1394	EX2203	10269
EHC2821	121-1048	EOS806	122-1199	EOS9144	122-1418	EX2247+15	01504S
EHC2823	121-1099	EOS812	122-1067	EOS9145	122-1409	EX2307	01542S
EHC2824	121-1108	EOS821	122-1077	EOS9147	122-1364	EX230715	01542S+15
EHC2825	121-1127	EOS830VT	122-1069	EOS9148	122-1425	EX2515	10274S
EHC2826	121-1129	EOS844VT	122-1330	EOS9149	122-1423	EX2517	10282
EHC2827	121-1130	EOS9036	122-1351	EOS9150	122-1427	EX2517	10282S
EHC2828	121-1128	EOS904	122-1336	EOS9151	122-1433	EX2533	10193
EHC309	121-1017	EOS9040	122-1282	EOS9152	122-1438	EX2547	10338S
EHC510	121-1072	EOS9043	122-1236	EOS9154	122-1363	EX2627	01422S
EHC555	121-1003	EOS9049	122-1349	EOS9155	122-1419	EX2673	10555S
EHC613	121-1007	EOS9050	122-1288	EOS9156	122-1369	EX2679	01780S
EHC614	121-1011	EOS9051	122-1337	EOS9157	122-1413	EX2705	10285S
EHC619	121-1083	EOS9052	122-1338	EOS915PA	122-1006	EX2711	10227S
EHC620	121-1019	EOS9053	122-1323	EOS9163	122-1428	EX2741	10553S
EHC716	121-1039	EOS9054	122-1119	EOS9164	122-1429	EX2747	10306S
EHC743	121-1001	EOS9057	122-1346	EOS9165	122-1430	EX2799	10221S
EHC746	121-1000	EOS905PA	122-1033	EOS9166	122-1441	EX2881	10342S
EHC766	121-1014	EOS9061	122-1139	EOS9167	122-1442	EX2913	10220S
EHC803	121-1006	EOS9064	122-1137	EOS9169	122-1445	EX2929	01659S
EHC811	121-1023	EOS9065	122-1266	EOS9170	122-1447	EX3517	01698S
EHC813	121-1034	EOS907	122-1005	EOS921	122-1031	EX3525	10734S
EHC816	121-1030	EOS907	122-1059	EOS921PA	122-1037	EX3527	10787S
EHC819	121-1047	EOS9070	122-1187	EOS935	122-1052	EX3537	13203S
EHC822	121-1010	EOS9071	122-1180	EOS936	122-1053	EX3541	13291S
EOS1050	122-1011	EOS9072	122-1181	EOS938	122-1075	EX477	01294S
EOS1053	122-1189	EOS9073	122-1347	EOS938PA	122-1048	EX5029	10215S
EOS1054	122-1014	EOS9075	122-1163	EOS940	122-1335	EX5029	10217
EOS1062	122-1009	EOS9076	122-1165	EOS950	122-1206	EX5035	10374S
EOS1065	122-1074	EOS9077	122-1251	EOS950PA	122-1039	EX5041	10732S
EOS1066	122-1196	EOS9078	122-1342	EOS960	122-1082	EX5047	10793S
EOS1068	122-1015	EOS9079	122-1065	EOS962	122-1116	EX5051	10696S
EOS1068	122-1075	EOS9080	122-1066	EOS962	122-1141	EX5073	10803S
EOS1068	122-1253	EOS9081	122-1299	EOS962	122-1162	EX5173	10805S
EOS1100	122-1047	EOS9084	122-1243	EOS962	122-1263	EX5201	02178S
EOS1100	122-1047	EOS9086	122-1223	EOS964	122-1086	EX5231	13140S
EOS1100	122-1233	EOS9088	122-1221	EOS964	122-1130	EX631	10037
EOS1239	122-1239	EOS9092	122-1362	EOS967	122-1088	EX633	10036S
EOS1241	122-1241	EOS9093	122-1361	EOS967	122-1127	EX733	00185
EOS1241	122-1374	EOS9094	122-1360	EOS972	122-1132	EX867	01206S
EOS1301	122-1301	EOS9095	122-1439	EOS978	122-1089	EX86715	01206S+15
EOS1391	122-1391	EOS9096	122-1358	EOS995	122-1136	EX901	02250S
EOS1392	122-1392	EOS9097	122-1357	EOS995	122-1152	EX903	02248S
EOS1392	122-1443	EOS9099	122-1355	EOS997	122-1149	EX969	00326S
EOS1414	122-1414	EOS910	122-1036	EX1171	00598S	GD9716	140-9716
EOS1415	122-1415	EOS9100	122-1354	EX1239	00427S	HB124	220-1018
EOS1420	122-1420	EOS9101	122-1350	EX1303	01346S	HB128	220-1021
EOS1421	122-1421	EOS9102	122-1348	EX1383	00559S	HB148	220-1028
EOS1424	122-1424	EOS9103	122-1344	EX1597	00602	HL1812	VL8
EOS1432	122-1432	EOS9104	122-1373	EX1613	00753S	HL1817	VL37
EOS2006	122-1063	EOS9105	122-1341	EX1613	00754	HL1817HP	VL66RH
		EOS9106	122-1340	EX1633	01177S	HL1846	VL5
				EX165115	01261S+15	HL1900	VL35

Interchange Listing

ELGIN (Cont'd)					
HL1900HP	VL67RH	I1375125250	SB1375-2	I1687125219	SB1687-2
HL1945	VL32	I1375125266	SB1375-5	I1687125219N	SB1687-2N
HL1951	VL49	I1375156188	SB1375-3	I1687125250	SB1687-3
HL1969	VL73	I1375156250	SB1375-7	I1687125313	SB1687-13
HL1969HP	VL117RH	I1382	00560	I1687141250	SB1687-1
HL1976HP	VL64	I1418	00637	I1687141250N	SB1687-1N
HL2011	VL89	I1418+15	00637+15	I1687156219N	SB1687-5N
HL2012	VL83	I1437094219	SB1437-1	I1687156250	SB1687-7
HL2056	VL109	I1437109219	SB1437-2	I1687156315	SB1687-8
HL2083	VL9	I1437125219	SB1437-3	I1687172315	SB1687-4
HL2089	VL88	I1437125250	SB1437-5	I1687188219	SB1687-9
HL2095	VL94	I1437156188	SB1437-10	I1687188250	SB1687-6
HL2102	VL86	I1437156219	SB1437-4	I1687188313	SB1687-11
HL2105	VL87	I1437156313	SB1437-6	I1687221250	SB1687-19
HL2148	VL115	I1437188188	SB1437-9	I1708	01082
HL2148	VL559	I1460	00593	I1712	01105
HL2201	VL114	I1476	00696	I1714	01084
HL2205	VL100	I1498	00659	I1730	01103
HL2217	VL113	I1500082219	SB1500-4	I1732	01137
HL2220	VL106	I1500094219	SB1500-30	I1750	01087
HL2236	VL116	I1500125188	SB1500-13	I1750125219	SB1750-2
HL2254	VL146	I1500125219	SB1500-1	I1750125219N	SB1750-2N
HL2270	VL138	I1500125250	SB1500-3	I1750125250	SB1750-1
HL2278	VL173	I1500141250	SB1500-11	I1750125250N	SB1750-1N
HL2280	VL176	I1500156219	SB1500-2	I1750156219	SB1750-3
HL2332	VL560	I1500156250	SB1500-6	I1750156219N	SB1750-3N
HL6000	VL141	I1538	01048	I1750156250	SB1750-4
HL7000	VL107	I1554	00874	I1750156315	SB1750-5
HL7000	VL562	I1554	13101	I1750188219	SB1750-7
HL7002	VL150	I1562094219	SB1562-12	I1750188250	SB1750-8
HL7003	VL163	I1562094250	SB1562-5	I1750188375	SB1750-0
HL7005	VL171	I1562096219	SB1562-9	I1750219250	SB1750-6
HL7007	VL175	I1562096250	SB1562-2	I1756	01152
HL7008	VL178	I1562109219	SB1562-3	I1760	01238
HL7010	VL156	I1562125188	SB1562-36	I1761	01238
HL7011	VL558	I1562125219	SB1562-1	I1762	01172
HL7011	VL558FG	I1562125250	SB1562-4	I1764	01170
HL7011	VL558RG	I1562125313	SB1562-18	I1764+15	01170+15
HL7012	VL180	I1562156250	SB1562-7	I1776	01186
HL7013K	VL555LA	I1562156313	SB1562-34	I1778	01180
HL7014K	VL556LA	I1562188219	SB1562-13	I1778	01180+15
HL7015K	VL557LA	I1584	01268	I1790	01216
HL7017	VL561	I1586	00963	I1792	00912
HL9001	VL135	I1586+15	01120+15	I1800	01161
HL9001	VL564	I1588	00938	I1804	01260
HL9002	VL149	I1588+15	00938+15	I1806	01258
HL9002	VL568	I1610	00958	I180615	01258+15
HL9021	VL523	I1612	00975	I1808	01293
HL9022	VL524	I1625125219	SB1625-1	I1812	01323
HL9029	VL567	I1625125250	SB1625-2	I1812094219	SB1812-3
I1000125188	SB1000-1	I1625141250	SB1625-5	I1812096219	SB1812-12
I1042	00343	I1625156219	SB1625-4	I1812125219	SB1812-4
I1052	00349	I1625156250	SB1625-3N	I1812125219N	SB1812-4N
I1056	00169	I1625156313	SB1625-10	I1812125250	SB1812-1
I1078	00399	I1625188219	SB1625-9	I1812125313	SB1812-10
I1078+15	00399+15	I1625188250	SB1625-6	I1812156219	SB1812-2
I1110	00155	I1625188375	SB1625-29	I1812156250	SB1812-5
I1125125219	SB1125-1	I1628	00947	I1812188250	SB1812-7
I1187094188	SB1187-1	I1634	01120	I1816	01285
I1222	00494	I1636	00918	I1818	01263
I1238+15	01481+15	I1636	00949	I1820	01272
I1250125219	SB1250-1	I1640	00969	I1822	01362
I1250125250	SB1250-3	I1644	01457	I1830	01328
I1266	00514	I1650	00988	I1836	01357
I1312125188	SB1312-1	I1652	01107	I1852	01442
I1316	00548	I1652+15	01107+15	I1862	10061
I1336	00550	I1654	01164	I1870	10087
I1350	00567	I1656	00997	I1874	01380
I1350+15	00567+15	I1660	01379	I1874+15	01380+15
I1352	00548	I1662	01002	I1875094219	SB1875-20
I1354	00627	I1670	01001	I1875125219	SB1875-6
I1356	00585	I1670+15	01001+15	I1875125250	SB1875-1
I1375125188	SB1375-4	I1682	01098	I1875125313	SB1875-17
I1375125219	SB1375-1	I1687125156	SB1687-15	I1875141250	SB1875-7
				I1875156219	SB1875-19
				I1875156250	SB1875-2
				I1875188250	SB1875-9
				I1876	01388
				I1880	01382
				I1888	01395
				I1896	01449
				I1897	01448
				I1900	01452
				I1902	01450
				I1922	01393
				I1924	01193
				I1924+15	01193+15
				I1924+3	01193+3
				I1926	00609
				I1930	01042
				I1937094219	SB1937-19
				I1937125219	SB1937-17
				I1937125250	SB1937-1
				I1937125281	SB1937-15
				I1937125313	SB1937-30
				I1937156219	SB1937-6
				I1937188250	SB1937-4
				I1937188250N	SB1937-4N
				I1937188313	SB1937-3
				I1956	00922
				I1958	01423
				I1968	01598
				I1994	01528
				I1998	01543
				I2000094219	SB2000-7
				I2000125188	SB2000-36
				I2000125219	SB2000-1
				I2000125313	SB2000-18
				I2000156250	SB2000-16
				I2000156278	SB2000-2
				I2000156375	SB2000-4
				I2000188219	SB2000-12
				I2000188297	SB2000-3
				I2000188313	SB2000-14
				I2000221250	SB2000-10
				I2000221375	SB2000-34
				I2006	01484
				I2018	00867
				I2022	01193
				I2034	01450
				I2038	01569
				I2042	01015
				I2044	01045
				I2046	01013
				I2052	01017
				I2054	01070
				I2060	01557
				I2060+15	01557+15
				I2062094250	SB2062-1
				I2062156219	SB2062-25
				I2062156278	SB2062-2
				I2064	01328
				I2070	01456
				I2076	01195
				I2082	01479
				I2112	01017
				I2114	01536
				I2124+15	01505+15
				I2125125250	SB2125-2
				I2125156188	SB2125-38
				I2125156250	SB2125-1
				I2125188281	SB2125-10
				I2138	01481
				I2140	02057
				I2144	01555
				I2146	01553
				I2148	01551
				I214815	01551+15
				I2152	01385
				I215215	01385+15
				I2154	01118
				I2172	01654

Interchange Listing

ELGIN (Cont'd)					
I2180	01649	I2756	10524	I5026	02053
I2198	10328A	I2758	10541	I5034	10373
I2202	10268	I2760	10432	I5038	10695
I2204	10078	I2762	10543	I5040	10731
I2214	10406	I2764	10206	I5044	10794
I2216	10141	I2768	01707	I5046	10792
I2218	01528	I2772	10520	I5058	02101
I2220	10127	I2774	10522	I5066	01580
I2228	01726	I2804	10502	I5068	02118
I2240	01546	I2808	10213	I5070	10804S
I2248	01507	I2814	10506	I5080	01993
I2250156188	SB2250-1	I2816	10172	I5082	02008
I2250156219	SB2250-35	I2818	10169	I5084	02034
I2250156250	SB2250-15	I2826	10157	I5086	02006
I2250188250	SB2250-9	I2830	10234	I5088	01998
I2250188278	SB2250-2	I2836	10562	I5090	02008
I2256	01763R	I2836	10788S	I5098	10780
I2274	01711	I2858	10495	I5100	01949
I2366	01592	I2864	10500	I5102	02172
I236615	01592+15	I2880	10496	I5104	10786
I2375188281	SB2375-2	I2884	10218	I5106B	02103
I2375188281N	SB2375-2N	I2904	10498	I5116	10778
I2380	01598	I2912	01296	I5118	02181
I2386	10162	I2918	01532	I5120	02177
I2388	01699	I2920	01660	I5122	10798
I2390	10234	I2950	01663	I5128	02014
I2394	10387	I2976	10624	I5150	01899
I2396	10147	I3122	01273	I5154	02194
I2400	10126A	I3168	01723	I5156	02196
I2402	01671	I3188	01785	I5158	10806
I2406	10314	I3200	01789	I5160	02103
I2408	10143	I3214	01858	I5164	02249
I2412	10176	I3406	01730	I5166	02245
I2416	01673	I3408	01901	I5168	02192
I2422	10117	I3410	01904	I5170	02247
I2434	10243	I3418	01745	I5174	10816
I2436	10236	I3420	02044	I5176	10808
I2450	10299	I3422	02044	I5178	10810
I2452	10190	I3424	01728	I5182	10814
I2454	10195	I3426	01787	I5184	02234
I2456	01598	I3428	01790	I5190	02241
I2464	10322	I3434	01743	I5198	13179
I2466	10273	I3438	01913	I5200	13081
I2468	10270	I3442	01924	I5202	13013
I2488	10281	I3444	01941	I5204	13038
I2496	10307	I3446	01929	I5206	13040
I2512	10309	I3448	01739	I5208	13043
I2516	10015	I3452	01934	I5212	13047
I2518	10255	I3454	02000	I5216	13077
I2536	10310	I3456	01902	I5218	13079
I2538	10192	I3464	10739	I5222	13086
I2584	10387	I3466	10547	I5224	13088
I258415	10387+15	I3468	10812	I5226	13182
I2590	01757	I3470	10723	I5228	13190
I2602+15	01714+15	I3478	10784	I5230	13194
I2604	01665	I3492	10537	I5232	13172
I2654	10434	I3500	10321	I5234	13206
I2656	10122	I3502	10421	I5236	13208
I2660	10197A	I3504	10518	I5238	13213
I2662	10436	I3508	13273	I5240	13199
I2670	01712	I3522	10742	I5242	13211
I2680	01703	I3532	01810	I5244	13225
I2684	01705	I3532	10076	I5246	13251
I2692	01931	I4026	10065	I5248	13244
I2694	10172	I4028	01195	I5250	13240
I2696	10516	I408	01195+15	I5252	13239
I2706	10226	I408+3	01195+3	I5254	13237
I2708	10228	I4342	01916+15	I5262	13197
I2710	10224	I4710	10725	I5264	13204
I2732	10137	I5006	01520	I5266	13210
I2736	10506	I5016	01918	I5268	02267
I2738	10552	I5017	01919	I5270	13263
I2744	10305	I5018	01916	I5272	13276
I2748	10473	I5020	01991	I5274	13261
		I5022	01993	I5276	13259
		I5024	02046	I5278	13257
				I5281	13258
				I5282	13201
				I5284	13174
				I5286	13265
				I5288	13294
				I5290	13293
				I5292	13288
				I5294	13286
				I550	13135
				I632	10048
				I636	10031
				I638	10056
				I750	01087+15
				I767	00298
				I782	00122
				I786	00302
				I840	00810
				I868	00308
				I914	00376
				I920	00373
				IX1328	00531S
				IX1436	01057S
				IX1878	01384S
				IX1878+15	01384S+15
				IX1964	01336S
				IX1976	01386S
				IX1976+15	01386S+15
				IX1984	01432
				IX2284	01548S
				IX2474	10339SA
				IX2672	10556
				IX2674	10554S
				IX3442	01924S
				IX3516	01699S
				IX3518	13290S
				IX5070	10804S
				IX5226	13139S
				MPR381	192-1507
				MPR454	192-1506
				MPR614	190-1537
				OS642	122-1041
				PR103B	190-1433
				PR103B	190-1433
				PR105	192-1229
				PR152	190-1237
				PR155	190-1342
				PR201	190-1370
				PR230	192-1504
				PR230A	192-1503
				PR274	190-1425
				PR274A	190-1425+60
				PR279	192-1321
				PR280	192-1399
				PR280B	192-1439
				PR281	192-1409
				PR281B	192-1409U60
				PR282	192-1462
				PR301	190-1429
				PR302	190-1421
				PR305	190-1385
				PR306	192-1322
				PR307	190-1411
				PR308	190-1396
				PR309	190-1395
				PR309B	190-1478
				PR310	190-1417
				PR310A	190-1417+60
				PR310B	190-1417U60
				PR311	190-1351
				PR311A	190-1351+60
				PR311B	190-1351U60
				PR312	190-1426
				PR313	190-1327
				PR313B	190-1327U54
				PR314	190-1349
				PR315	190-1328

Interchange Listing

ELGIN (Cont'd)					
PR317	192-1330	PR605	190-1533	R9126	180-1331
PR318	192-1335	PR607	190-1522	R925	180-1207
PR321	190-1408	PR608	190-1531	R929	180-1284
PR323	190-1403	PR609	190-1500	R930	180-1330
PR324	190-1450	PR610	190-1539	RDS941	184-1020
PR326	192-1381	PR614	190-1537	RDS944	184-1022
PR327	190-1384	PR638	192-1510	RDS945	184-1023
PR333	190-1440	PR639	192-1509	RDS948	184-1025
PR335	190-1433	PR642	190-1548	RDS971	184-1045
PR335A	192-1442	PR652	190-1544	RK1736	181-1061
PR337	190-1435	PR653	190-1545	RK401	181-1011
PR339	190-1443	PR662	190-1548	RK402	181-1012
PR342	192-1444	PR664	190-1552	RK405	181-1014
PR343	190-1438	PR665	190-1551	RK407	181-1016
PR344	192-1446	PR667	190-1549	RK408	181-1020
PR345	190-1449	PR668	190-1550	RK409	181-1017
PR347	192-1453	PR669	190-1546	RK410	181-1018
PR34B	192-1331	PR670	190-1547	RK431	181-1044
PR353	190-1454	PR685	190-1553	RK434	181-1020
PR356	190-1522	PR696	190-1555	RK450	181-1021
PR358	190-1489	PR71	190-1221	RK504	181-1014
PR35AB	190-1269	PR73	190-1543	RK507	181-1048
PR365	190-1489	PR80	190-1222	RK508	181-1049
PR366	190-1473	PR81	190-1280	RK511	181-1023
PR367	190-1500	R1805	180-1007	RK530	181-1020
PR371	190-1502	R1806	180-1007	RK531	181-1020
PR372	192-1480	R1807	180-1008	RK532	181-1025
PR373	192-1485	R1850	180-1028	RK533	181-1044
PR374	192-1484	R217	180-1264	RK536	181-1020
PR375	192-1481	R5253	13252	RK5412	181-1028
PR376	192-1482	R607	180-1315	RK543	181-1020
PR378	190-1455	R702	180-1324	RK5442	181-1032
PR379	192-1339	R703	180-1322	RK545	181-1034
PR380	192-1338	R710	180-1029	RK547	181-1034
PR381	190-1507	R736	180-1283	RK548	181-1035
PR382	190-1526	R740	180-1236	RK5502	181-1059
PR384	192-1491	R750	180-1079	RK5512	181-1037
PR389	190-1433+60	R751	180-1080	RK5532	181-1057
PR391	192-1229U60	R754	180-1318	RK5542	181-1059
PR399	190-1529	R755	180-1319	RK600	181-1040
PR405	190-1450+15	R756	180-1313	RK610	181-1041
PR406	190-1450+45	R758	180-1288	RK610B	181-1041
PR412	192-1482U40	R808	180-1004	RK650	181-1060
PR415	192-1322U40	R809	180-1004	RK673	181-1064
PR434	190-1511	R810	180-1037	RK674	181-1063
PR435	190-1509	R813	180-1040	RM1704	183-1027
PR438	190-1532	R814	180-1041	RM1718	183-1028
PR44	192-1337	R819	180-1012	RM1719	183-1014
PR441	192-1337	R840	180-1239	RM1720	184-1032
PR442	192-1336	R842	180-1228	RM1721	183-1015
PR445	192-1484	R849	180-1304	RM1723	184-1033
PR446	190-1536	R850	180-1055	RM1724	187-1014
PR447	190-1531	R851	180-1056	RM1731	183-1017
PR447	190-1538	R859	180-1059	RM1740	184-1034
PR448	190-1530	R867	180-1229	RM1741	184-1035
PR44A	192-1336	R876	180-1237	RM1758	184-1045
PR45	192-1377	R886	180-1238	RM1771	183-1030
PR454	192-1506	R888	180-1233	RM1772	183-1020
PR456	190-1427	R889	180-1234	RM1773	183-1021
PR45A	192-1378	R892	180-1077	RM1776	183-1022
PR460	192-1505	R893	180-1078	RM1783	183-1024
PR462	190-1525	R900	180-1292	RM1786	184-1038
PR463	190-1527	R904	180-1321	RM1791	184-1039
PR464	190-1528	R905	180-1320	RM1792	183-1032
PR465	190-1524	R906M	180-1335	RM1793	184-1040
PR471	190-0471	R907M	180-1337	RM1796	184-1038
PR474	190-1535	R908M	180-1336	RM1797	183-1026
PR475	190-1534	R9097	180-1240	RM1798	183-1027
PR490	192-1513	R9098	180-1265	RM1861	183-1034
PR498	192-1511	R9099	180-1266	RM8827	183-1035
PR499	192-1512	R9100	180-1267	RS641	186-1090
PR602	192-1508	R9106	180-1326	RS661	186-1100
PR603	192-1507	R9111	180-1328	RS677	186-1121
PR604	190-1541	R9113	180-1333	RV1002X	160-1001
		R9114	180-1325	RV1009A	160-1003
		R9123	180-1332	RV1011	160-1004
				RV1014	160-1177
				RV1015	160-1005
				RV1016	160-1006
				RV1016X	160-1147
				RV1038X	160-1009
				RV1041X	160-1011
				RV1047	160-1013
				RV1050	160-1016
				RV1061	160-1018
				RV1066	160-1019
				RV1070	160-1020
				RV1082	160-1023
				RV1086	160-1024
				RV1096	160-1025
				RV1123	160-1030
				RV1125	160-1031
				RV1135	160-1038
				RV1149	160-1041
				RV1158	160-1226
				RV1166	160-1204
				RV1173	160-1184
				RV1175	160-1044
				RV1178	160-1190
				RV1189	160-1187
				RV1193	160-1047
				RV1195X	160-1049
				RV1200	160-1482
				RV1201	160-1054
				RV1202	160-1055
				RV1216	160-1171
				RV1218	160-1064
				RV1220X	160-1233
				RV1230	160-1206
				RV1240	160-1198
				RV1245	160-1203
				RV1250	160-1071
				RV1253X	160-1194
				RV1258	160-1072
				RV1265	160-1363
				RV1268	160-1076
				RV1270	160-1365
				RV1278	160-1378
				RV1289	160-1079
				RV1291	160-1217
				RV1292	160-1218
				RV1293	160-1213
				RV1294	160-1207
				RV1296	160-1304
				RV1298	160-1303
				RV1299	160-1080
				RV1301X	160-1083
				RV1303	160-1085
				RV1304	160-1086
				RV1306	160-1103
				RV1313	160-1307
				RV1332	160-1305
				RV1368	160-1096
				RV1370	160-1097
				RV1374	160-1099
				RV1378X	160-1409
				RV1388	160-1103
				RV1398	160-1262
				RV1399	160-1261
				RV1403	160-1216
				RV1405	160-1106
				RV1409	160-1253
				RV1420	160-1201
				RV1425	160-1393
				RV1426	160-1394
				RV1446	160-1238
				RV1450	160-1236
				RV1455	160-1241
				RV1457	160-1318
				RV1537	160-1271
				RV1549	160-1272
				RV1558	160-1112

Interchange Listing

ENGINETECH (Cont'd)							
E1875	01367+15	EM4353	02040S	ER501	180-1037	GD3023	140-3023
E1885	01358+15	EM4355	10793S	ER668	180-1329	GD3024	140-3024
E1923	01192+15	EM4357	10787S	ER690	180-1059	GD3025	140-3025
E2123	01504+15	EM4367	10795	ER700	180-1004	GD3026	140-3026
E2141	01480+15	EM4373	10736	ER703	180-1322	GD3029	140-3029
E2151	01550+15	EM4387S	02178S	ER713L	180-1079	GD3031	140-3031
E2217	01556+15	EM4389	02240	ER713R	180-1080	GD3032	140-3032
E2285	10386+15	EM4391	10799	ER9111	180-1328	GD3033	140-3033
E2427	10388+15	EM4393	10248	ER9114	180-1325	GD3034	140-3034
E2441	01419+15	EM4395	10234	ER9126	180-1331	GD3046	140-3046
E2633	01715+15	EM4395	10548	ER9304	180-1330	GD3047	140-3047
E4341	01917+15	EM4403	10815	ERK1036	181-1011	GD3049	140-3049
E867S	01206S+15	EM4411	13348	ERK1868	181-1061	GD3053	140-3053
E9151	01591+15	EM4441	10807	ERK374	181-1014	GD3055	140-3055
EG365	VL559G	EM4457	13087	ERK375	181-1012	GD3067	140-3067
EG596	VL558FG	EM4465	13209	ERK383	181-1025	GD3070	140-3070
EM1001	13039	EM4467	13198	ERK407	181-1032	GD3112	140-3112
EM1003	10817	EM4469	13287	ERK409	181-1017	GD3118	140-3118
EM1007	02195	EM631	10037	ERK419	181-1016	GD3119	140-3119
EM1863	10060S	EPC291	121-1085	ERK550	181-1059	GD3127	140-3127
EM2169	10102S	EPC746HD	121-1000	ERK5512	181-1037	GD6108	140-6108
EM2169	10302	EPF555HD	121-1003	ERK673	181-1064	GD6869	140-6869
EM2197	10106	EPF613HD	121-1007	ERK674	181-1063	GD6977	140-6977
EM2199	10330A	EPR103B	190-1433	ERM341	184-1038	GD7198	140-7198
EM2203	10269	EPR274	190-1425	ERM342	183-1017	GD7507	140-7507
EM2215	10142	EPR281	192-1409	ERM412	187-1014	GD7523	140-7523
EM2281	10153	EPR305	190-1385	ERM418	184-1032	GD7576	140-7576
EM2429	10148	EPR306	192-1322	ERM659	184-1040	GD7577	140-7577
EM2429	10625	EPR314	190-1349	ERS668C	186-1090	GD7689	140-7689
EM2431	10128A	EPR317	192-1330	ERV1002X	160-1001	GD7712	140-7712
EM2437	10144	EPR324	190-1450	ERV1038	160-1009	GD7907	140-7907
EM2451	10177	EPR335A	192-1442	ERV1082	160-1023	GD7946	140-7946
EM2473	10244	EPR337	190-1435	ERV1086	160-1024	GD8021	140-8021
EM2475	10237	EPR339	190-1443	ERV1149	160-1041	GD8038	140-8038
EM2491	10191	EPR342	192-1444	ERV1175	160-1044	GD8040	140-8040
EM2493	10196	EPR343	190-1438	ERV1258	160-1072	GD8112	140-8112
EM2499	10311	EPR344	192-1446	ERV1348	160-1348	GD8113	140-8113
EM2504	10420	EPR345	190-1449	ERV1415	160-1488	GD8147	140-8147
EM2515	10274S	EPR34B	192-1331	ERV1432	160-1432	GD8155	140-8155
EM2517	10282	EPR356	190-1522	ERV1450	160-1450	GD8156	140-8156
EM2517	10282S	EPR358	190-1489	ERV1457	160-1457	GD8157	140-8157
EM2519	10315	EPR366	190-1473	ERV1484	160-1484	GD8180	140-8180
EM2521	10323	EPR372	192-1480	ERV1485	160-1485	GD8204	140-8204
EM2533	10193	EPR373	192-1485	ERV1568	160-1568	GD8207	140-8207
EM2547	10338S	EPR374	192-1484	ERV1588	160-1588	GD8211	140-8211
EM2553	10256	EPR375	192-1481	ERV1612	160-1612	GD8216	140-8216
EM2655	10435	EPR376	192-1482	ERV1614	160-1614	GD8217	140-8217
EM2697	10517	EPR378	190-1455	ERV1680	160-1266	GD8219	140-8219
EM2705S	10285S	EPR380	192-1338	ERV2215	160-1352	GD8256	140-8256
EM2711	10227S	EPR381	190-1507	ERV2225	160-1483	GD8274	140-8274
EM2715	10229	EPR384	192-1491	ERV2302	160-1504	GD8277	140-8277
EM2739	10507	EPR434	190-1511	ERV2476	160-1437	GD8292	140-8292
EM2741	10553S	EPR435	190-1509	ERV2487	160-1411	GD8293	140-8293
EM2747	10306S	EPR438	190-1532	ERV2498	160-1443	GD8476	140-8476
EM2751	10474	EPR454	192-1506	ERV3510	160-1410	GD8494	140-8494
EM2763	10544	EPR456	190-1427	ERV3557	160-1480	GD8535	140-8535
EM2765	10207	EPR460	192-1505	ERV3598	160-1488	GD8536	140-8536
EM2767	10198A	EPR465	190-1524	ERV619	160-1121	GD8547	140-8547
EM2799	10221S	EPR471	190-0471	ERV685	160-1125	GD8548	140-8548
EM2809	10503	EPR490	192-1513	ERV765	160-1130	GD8554	140-8554
EM2831	10159	EPR499	192-1512	ERV807	160-1134	GD8555	140-8555
EM2841	10563	EPR602	192-1508	ERV812	160-1135	GD8556	140-8556
EM2865	10497	EPR603	192-1507	ERV813	160-1136	GD8558	140-8558
EM2865	10499	EPR604	190-1541	ERV814	160-1137	GD8560	140-8560
EM2913	10220S	EPR605	190-1533	ERV864	160-1141	GD8571	140-8571
EM3461	10740	EPR610	190-1539	ERV880	160-1144	GD8574	140-8574
EM3467	10724	EPR614	190-1537	ERV922	160-1156	GD8575	140-8575
EM3483	10803S	EPR638	192-1510	ERV923	160-1157	GD8593	140-8593
EM3485	10805S	EPR639	192-1509	ERV943	160-1144HP	GD8658	140-8658
EM3488	10804S	EPR652	190-1544	ERV991	160-1161	GD8659	140-8659
EM3591	10538	EPR669	190-1546	GD3015	140-3015	GD8662	140-8662
EM4301	13078	EPR670	190-1547	GD3016	140-3016	GD8663	140-8663
EM4349	10542	ER1806	180-1007	GD3019	140-3019	GD8670	140-8670
EM4351	10809	ER1807	180-1008	GD3020	140-3020	GD8671	140-8671
		ER410	180-1040	GD3021	140-3021	GD9113	140-9113
		ER411	180-1041	GD3022	140-3022	GD9198	140-9198

Interchange Listing

ENGINE TECH (Cont'd)					
GD9204	140-9204	I2060	01557+15	IM4400	10814
GD9206	140-9206	I2124	01505+15	IM4410	13347
GD9459	140-9459	I2138	01481+15	IM4438	13201
GD9460	140-9460	I2148	01551+15	IM4440	10806
GD9606	140-9606	I2152	10385+15	IM4456	13086
GD9607	140-9607	I2394	10387+15	IM4464	13208
GD9607H	140-9607H	I5028	10216	IM4466	13197
GD9848	140-9848	I9148	01592+15	IM4468	13286
GD9867	140-9867	IM1002	10816	IM632	10048
GD9869	140-9869	IM1004	13038	J2270	VL138
GD9873	140-9873	IM1008	02194	L2011	VL89
GD9946	140-9946	IM1862	10061	L2012	VL83
GD9972	140-9972	IM1870	10087	L2056	VL109
GD9972H	140-9972H	IM2052	10107	L2077	VL73
GD9973	140-9973	IM2198	10328A	L2083	VL9
HB100	220-1000	IM2202	10268	L2089	VL88
HB102	220-1004	IM2216	10141	L2095	VL94
HB103	220-1005	IM2396	10147	L2102	VL86
HB104	220-1006	IM2396	10624	L2104	VL114
HB106	220-1033	IM2400	10126A	L2105	VL87
HB110	220-1076	IM2406	10314	L2128	VL150
HB114	220-1008	IM2408	10143	L2148	VL115
HB115	220-1009	IM2434	10243	L2167	VL106
HB116	220-1010	IM2436	10236	L2168	VL560
HB119	220-1013	IM2452	10190	L2205	VL100
HB120	220-1014	IM2458	10176	L2217	VL113
HB121	220-1015	IM2464	10322	L2236	VL116
HB122	220-1016	IM2466	10273	L2250	VL135
HB123	220-1017	IM2474	10339SA	L2254	VL146
HB128	220-1021	IM2488	10281	L2270	VL138
HB130	220-1023	IM2512	10309	L2276	VL149
HB131	220-1024	IM2514	10337	L2278	VL173
HB132	220-1025	IM2518	10255	L2281	VL559
HB139	220-1059	IM2536	10310	L2305	VL180
HB143	220-1072	IM2538	10192	L2308	VL562
HB144	220-1074	IM2654	10434	L2319	VL175
HB153	220-1060	IM2694	10172	L2700	VL171
HB154	220-1048	IM2696	10516	L4600	VL107
HB156	220-1113	IM2698	10103	L5400	VL180
HB157	220-1052	IM2706	10226	L57004	VL555LA
HB158	220-1077	IM2708	10228	L57014	VL557LA
HB159	220-1107	IM2710	10224	L57024	VL556LA
HB166	220-1031	IM2724	10284	L6000	VL141
HB170	220-1043	IM2736	10506	L6400	VL567
HB171	220-1102	IM2738	10552	L7400	VL163
HB177	220-1114	IM2744	10305	L812	VL8
HB192	220-1116	IM2748	10473	L817	VL37
HB193	220-1118	IM2756	10524	L817X	VL66RH
HB199	220-1071	IM2760	10432	L846	VL5
HB200	220-1119	IM2764	10206	L900	VL35
HB205	220-1110	IM2804	10502	L900X	VL67RH
HB207	220-1109	IM2826	10157	L945	VL32
HB208	220-1030	IM2836	10562	L951	VL49
HB209	220-1086	IM2858	10495	L969	VL73
HB221	220-1117	IM2880	10496	L976	VL64
HB222	220-1121	IM2884	10218	MT2000	VL48
HB227	220-1075	IM2904	10498	MT2084	VL31
HB228	220-1105	IM3464	10739	MT992	VL63
HB230	220-1103	IM3466	10547	RV939	160-1185
HB249	220-1108	IM3470	10723	S2509	122-1052
HB277	220-1112	IM3472	10735	S2544	122-1089
I1078	00399+15	IM3492	10537	S2927	122-1318
I1418	00637+15	IM3500	10321	S2969	122-1053
I1588	00938+15	IM3502	10421	S2970	322-1024
I1634	01120+15	IM3522	10742	S300P	122-1043
I1652	01107+15	IM4348	10541	S337	122-1035
I1706	01170+15	IM4350	10808	S9223	122-1203
I1732	01137+15	IM4352	10784	S9224	122-1086
I1760	01238+15	IM4354	10792	SB15621PM	SB1562-1PM
I1778	01180+15	IM4356	10786	SB156236N	SB1562-36N
I1820	01272+15	IM4370	10794	SB16251PM	SB1625-1PM
I1830	01328+15	IM4386	02177	SB16521	SB1562-1
I1874	01380+15	IM4388	02241	SB181221N	SB1812-21N
I1922	01393+15	IM4390	10798	SB181255	SB1812-55
		IM4392	10247	ST12503	SB1250-3
		IM4398	13077	ST13752	SB1375-2
				ST14371	SB1437-1
				ST14373	SB1437-3
				ST14374	SB1437-4
				ST143765	SB1437-65
				ST15001	SB1500-1
				ST150050	SB1500-50
				ST150071	SB1500-71
				ST150077	SB1500-77
				ST15621N	SB1562-1N
				ST15622	SB1562-2
				ST156236	SB1562-36
				ST156254	SB1562-54
				ST156267	SB1562-67
				ST156269	SB1562-69
				ST156274	SB1562-74
				ST15629	SB1562-9
				ST16251	SB1625-1
				ST16251N	SB1625-1N
				ST16253	SB1625-3
				ST16253N	SB1625-3N
				ST162554	SB1625-54
				ST162564	SB1625-64
				ST1669E1	SB1669E-1
				ST16871	SB1687-1
				ST168716	SB1687-16
				ST16872	SB1687-2
				ST16872N	SB1687-2N
				ST16875	SB1687-5
				ST16875N	SB1687-5N
				ST1722E1	SB1722E-1
				ST17502	SB1750-2
				ST17502N	SB1750-2N
				ST17503	SB1750-3
				ST17504	SB1750-4
				ST17504N	SB1750-4N
				ST175060	SB1750-60
				ST17507	SB1750-7
				ST1781E1N	SB1781E-1N
				ST1784E1N	SB1784E-1N
				ST18121	SB1812-1
				ST18122	SB1812-2
				ST18123	SB1812-3
				ST18124	SB1812-4
				ST18124N	SB1812-4N
				ST181256	SB1812-56
				ST18125N	SB1812-5N
				ST18129N	SB1812-9N
				ST18751	SB1875-1
				ST18752	SB1875-2
				ST18756	SB1875-6
				ST18758	SB1875-8
				ST19371	SB1937-1
				ST193717	SB1937-17
				ST193723	SB1937-23
				ST20001	SB2000-1
				ST200036	SB2000-36
				ST200051	SB2000-51
				ST20007	SB2000-7
				ST21252	SB2125-2
				ST212534	SB2125-34
				ST212538	SB2125-38
				ST22501	SB2250-1
				V1077	00400
				V1078	00399
				V1313	13207
				V1314	13206
				V1316	00548
				V1349	00746S
				V1350	00564
				V1418	00637
				V1476	00696
				V1519	01242
				V1585	01266
				V1588	00938
				V1589	01329
				V1633S	01177S

Interchange Listing

ERTEL (Cont'd)					
7714+2	140-7714+2	8200	140-8200	8581	140-8581
7715	140-7715	8201	140-8201	8582	140-8582
7736	140-7736	8202	140-8202	8583	140-8583
7813	140-7813	8203	140-8203	8584	140-8584
7822	140-7822	8204	140-8204	8585	140-8585
7822+2	140-7822+2	8205	140-8205	8587	140-8587
7825	140-7825	8207	140-8207	8588	140-8535
7826	140-7826	8208	140-8208	8589	140-8536
7828	140-7828	8209	140-8209	8590	140-8590
7830	140-7830	8210	140-8210	8591	140-8591
7847	140-7847	8211	140-8211	8592	140-8592
7873	140-7873	8211+2	140-8211+2	8593	140-8593
7892	140-7892	8212	140-8212	8594	140-8594
7903	140-7903	8213	140-8213	8658	140-8658
7907	140-7907	8216	140-8216	8659	140-8659
7908	140-7908	8217	140-8217	8662	140-8662
7946	140-7946	8218	140-8218	8663	140-8663
7994	140-7994	8219	140-8219	8664	140-8666
7999	140-7999	8219+2	140-8219+2	8665	140-8668
8004	140-8004	8220	140-8220	8666	140-8666
8008	140-8008	8222	140-7174	8667	140-8666
8011	140-8011	8223	140-8223	8668	140-8668
8016	140-8016	8233	140-8233	8669	140-8668
8017	140-8017	8233+2	140-8233+2	8670	140-8670
8018	140-8018	8255	140-8255	8671	140-8671
8021	140-8021	8256	140-8256	8673	140-8673
8024	140-8024	8273	140-8273	8674	140-8674
8038	140-8038	8274	140-8274	9105	140-9105
8038+2	140-8038+2	8277	140-8277	9106	140-9106
8039	140-8039	8291	140-8291	9107	140-9107
8039+2	140-8039+2	8292	140-8292	9108	140-9108
8040	140-8040	8293	140-8293	9108H	140-9108H
8112	140-8112	8319	140-8319	9109	140-9109
8112+2	140-8112+2	8324	140-8324	9110	140-9110
8113	140-8113	8356	140-8356	9111	140-9111
8114	140-8114	8357	140-8357	9113	140-9113
8115	140-8115	8383	140-3144	9114	140-9114
8118	140-3143	8388	140-8535	9115	140-9115
8122	140-8122	8389	140-8389	9116	140-9116
8124	140-8124	8397	140-8397	9119	140-9119
8133	140-8133	8407	140-8407	9197	140-9197
8134	140-8134	8408	140-8408	9198	140-9198
8136	140-8134+10	8409	140-8409	9204	140-9204
8139	140-8139	8420	140-8420	9205	140-9205
8142	140-8142	8476	140-8476	9206	140-9206
8143	140-8143	8485	140-8485	9208	140-9208
8144	140-8144	8486	140-8486	9259	140-9259
8147	140-8147	8494	140-8494	9260	140-9260
8155	140-8155	8531	140-3037	9298	140-9298
8156	140-8156	8535	140-8535	9458	140-9458
8157	140-8157	8536	140-8536	9458H	140-9458H
8158	140-8158	8543	140-8543	9459	140-9459
8161	140-8161	8544	140-8544	9460	140-9460
8168	140-8168	8545	140-8545	9460H	140-9460H
8169	140-8169	8547	140-8547	9523	140-9523
8170	140-8170	8548	140-8548	9523H	140-9523H
8172	140-8172	8554	140-8554	9546	140-9546
8172+2	140-8172+2	8555	140-8555	9554	140-9554
8173	140-8173	8556	140-8556	9557	140-9557
8177	140-8177	8558	140-8558	9560	140-9560
8178	140-8178	8559	140-8559	9584	140-9584
8180	140-8180	8560	140-8560	9604	140-9604
8180+2	140-8180+2	8561	140-8561	9606	140-9606
8186	140-8186	8562	140-8562	9607	140-9607
8187	140-8187	8564	140-8564	9607H	140-9607H
8188	140-8188	8565	140-8565	9609	140-9609
8189	140-8189	8567	140-8567	9610	140-9610
8190	140-8190	8569	140-8569	9612	140-9612
8191	140-8191	8571	140-8571	9690	140-9690
8193	140-8193	8572	140-8572	9705	140-9705
8193+2	140-8193+2	8573	140-8573	9715	140-9715
8194	140-8194	8574	140-8574	9716	140-9716
8194+2	140-8194+2	8575	140-8575	9846	140-9846
8195	140-8195	8576	140-8576	9848	140-9848
		8577	140-8577	9850	140-9850
		8580	140-8580	9867	140-9867
				9869	140-9869
				9872	140-9872
				9873	140-9873
				9907	140-9907
				9908	140-9908
				9909	140-9909
				9946	140-9946
				9964	140-9964
				9964H	140-9964H
				9972	140-9972
				9972+3	140-9972+3
				9972H	140-9972H
				9973	140-9973
				9977	140-9977
				9977H	140-9977H
				A0701	00270
				A0713	00212
				A0769	00257
				A0781	00121
				A0785	00303
				A0841	00196
				A0843	00210
				A0861	00170
				A0891	00249
				A0911	00375
				A0949	00234
				G337	140-1337
				G338	140-1338
				G342	140-1342
				G421	140-1421
				G453	140-1453
				G476	140-1476
				G504	140-1504
				G515	140-1515
				G527	140-1527
				G545N	140-1545N
				G547N	140-1547N
				G600	140-1600
				G614	140-1614
				G619	140-1619
				G620	140-1620
				G636	140-1636
				G673	140-1673
				G680	140-1680
				G703	140-1703
				G704	140-1704
				G711	140-1711
				G717	140-1717
				G723	140-1723
				G726	140-1726
				G730	140-6730
				G732	140-1732
				G733	140-1733
				G747	140-1747
				G804	140-1804
				G809	140-1809
				G810	140-1810
				G817	140-1817
				G823	140-1823
				G829	140-1829
				G832	140-1832
				G836	140-7876
				G839	140-1839
				G851	140-1851
				G852	140-1852
				G853	140-1853
				G854	140-1854
				G865	140-1865
				G872	140-1872
				G873	140-1873
				G874	140-1874
				G875	140-1875
				G881	140-1881
				G881+2	140-1881+2
				G888	140-1888
				G897	140-1897

Interchange Listing

ERTEL (Cont'd)					
G898	140-1898	245118751	SB1187-51	245143768	SB1437-68
G906N	140-1906N	245118752	SB1187-52	245143769	SB1437-69
G907	140-1907	245118753	SB1187-53	245143774	SB1437-74
G909	140-1909	2451194	SB2004E-2	24514378	SB1437-8
G919	140-1919	2451198	SB2444E-1	24515000	SB1500-0
G937	140-1937	2451198 30	SB2444E-1+030	24515001	SB1500-1
G941	140-1941	2451224	SB1441E-1	24515001N	SB1500-1N
G942	140-1942	24512501	SB1250-1	24515002	SB1500-2
G943	140-1943	24512503	SB1250-3	24515003	SB1500-3
G944	140-1944	245125050	SB1250-50	24515005	SB1500-5
G946	140-1946	245125052	SB1250-52	245150050	SB1500-50
G946+3	140-1946+3	245125053	SB1250-53	245150053	SB1500-53
G946+5	140-1946+5	245125054	SB1250-54	245150054	SB1500-54
G947	140-1947	245125059	SB1250-59	245150056	SB1500-56
G952	140-1952	245125061	SB1250-61	245150057	SB1500-57
G953	140-1953	245125062	SB1250-62	245150058	SB1500-58
G955	140-1955	245125063	SB1250-63	24515006	SB1500-6
G956	140-1956	245125064	SB1250-64	245150062	SB1500-62
G957	140-1957	2451264E1	SB1264E-1	245150063	SB1500-63
G962	140-1962	2451301	SB1505E-1	245150070	SB1500-70
G966	140-1966	2451302	SB1442E-2	245150071	SB1500-71
G967	140-8004	24513121	SB1312-1	245150073	SB1500-73
G968	140-1968	245131250	SB1312-50	245150079	SB1500-79
G969	140-1969	245131252	SB1312-52	24515620	SB1562-0
G970	140-1970	245131253	SB1312-53	24515621	SB1562-1
G972	140-1972	245131257	SB1312-57	245156212	SB1562-12
G973	140-1973	245131259	SB1312-59	24515621N	SB1562-1N
G976	140-1976	245131262	SB1312-62	24515622	SB1562-2
G977	140-1977	245131264	SB1312-64	24515622N	SB1562-2N
S0767	00298	245131267	SB1312-67	24515623	SB1562-3
S0769	00257	2451343E1	SB1343E-1	245156236	SB1562-36
S0782	00122	2451348E1N	SB1348E-1N	24515624	SB1562-4
S0786	00302	24513751	SB1375-1	24515625	SB1562-5
S0840	00810	24513751N	SB1375-1N	245156250	SB1562-50
S0868	00308	24513752	SB1375-2	245156251	SB1562-51
S0914	00376	24513753	SB1375-3	245156254	SB1562-54
S0920	00373	24513753N	SB1375-3N	245156257	SB1562-57
VG545	140-1545N	24513754	SB1375-4	245156266	SB1562-66
VG547	140-1547N	24513755	SB1375-5	245156267	SB1562-67
VG6730	140-6730	245137550	SB1375-50	245156269	SB1562-69
VG745	140-1745	245137551	SB1375-51	24515626N	SB1562-6N
VG821	140-1821	245137552	SB1375-52	24515627	SB1562-7
VG8388	140-8388	245137554	SB1375-54	245156272	SB1562-72
VG8578	140-8578	245137555	SB1375-55	245156274	SB1562-74
VG8579	140-8579	245137556	SB1375-56	24515628	SB1562-8
VG8586	140-8586	245137558	SB1375-58	24515629N	SB1562-9N
VG878	140-1878	245137561	SB1375-61	24516251	SB1625-1
		245137562	SB1375-62	245162511	SB1625-11
		245137565	SB1375-65	245162515	SB1625-15
		24513758	SB1375-8	24516251N	SB1625-1N
		2451415	SB2004E-2	24516252	SB1625-2
		2451415 20	SB2006E-2+020	24516252N	SB1625-2N
		2451416 20	SB2131E-1+020	24516253	SB1625-3
		2451425	SB1899E-1	24516253N	SB1625-3N
		2451436	SB1691E-2	24516254	SB1625-4
		24514371	SB1437-1	24516254N	SB1625-4N
		245143710	SB1437-10	24516255	SB1625-5
		24514371N	SB1437-1N	245162550	SB1625-50
		24514372	SB1437-2	245162552	SB1625-52
		24514372N	SB1437-2N	245162553	SB1625-53
		24514373	SB1437-3	245162555	SB1625-55
		24514373N	SB1437-3N	245162556	SB1625-56
		24514374	SB1437-4	245162558	SB1625-58
		24514375	SB1437-5	245162559	SB1625-59
		245143750	SB1437-50	245162560	SB1625-60
		245143751	SB1437-51	245162562	SB1625-62
		245143753	SB1437-53	24516257	SB1625-7
		245143756	SB1437-56	245162800	SB1628E-2
		245143758	SB1437-58	24516301	SB1630E-1
		245143759	SB1437-59	24516301 10	SB1630E-1+010
		245143760	SB1437-60	24516301 20	SB1630E-1+020
		245143761	SB1437-61	24516301N	SB1630E-1N
		245143762	SB1437-62	24516401	SB1640E-1
		245143763	SB1437-63	2451648	SB1912E-1
		245143766	SB1437-66	24516541N	SB1654E-1N
		245143767	SB1437-67	24516691	SB1669E-1
				24516701	SB1670E-1
				24516711N	SB1671E-1N
				24516781	SB1678E-1
				24516870	SB1687-0
				24516871	SB1687-1
				245168715	SB1687-15
				245168716	SB1687-16
				24516871N	SB1687-1N
				24516872	SB1687-2
				24516872N	SB1687-2N
				24516873	SB1687-3
				24516873N	SB1687-3N
				24516874	SB1687-4
				24516874N	SB1687-4N
				245168751	SB1687-51
				245168754	SB1687-54
				245168755	SB1687-55
				245168756	SB1687-56
				245168758	SB1687-58
				24516875N	SB1687-5N
				24516876	SB1687-6
				24516877	SB1687-7
				24516878	SB1687-8
				24516879	SB1687-9
				2451690E1	SB1690E-1
				24517220	SB1722E-1
				2451722E1	SB1722E-1
				24517441N	SB1744E-1N
				24517500	SB1750-0
				24517501	SB1750-1
				245175012	SB1750-12
				24517501N	SB1750-1N
				24517502	SB1750-2
				24517502N	SB1750-2N
				24517503	SB1750-3
				24517503N	SB1750-3N
				24517504	SB1750-4
				24517504N	SB1750-4N
				24517505	SB1750-5
				245175051	SB1750-51
				245175052	SB1750-52
				24517506	SB1750-6
				245175060	SB1750-60
				245175061	SB1750-61
				245175065	SB1750-65
				245175068	SB1750-68
				24517507	SB1750-7
				24517508N	SB1750-8N
				24517509	SB1750-9
				24517750	SB1775E-1
				24517811N	SB1781E-1N
				2451803	SB2003E-3N
				24518031	SB1803E-1
				24518121	SB1812-1
				245181211	SB1812-11
				24518121N	SB1812-1N
				24518122	SB1812-2
				245181221N	SB1812-21N
				24518123	SB1812-3
				24518124	SB1812-4
				24518124N	SB1812-4N
				24518125	SB1812-5
				245181250	SB1812-50
				245181251	SB1812-51
				245181252	SB1812-52
				245181253	SB1812-53
				245181254	SB1812-54
				245181255	SB1812-55
				245181256	SB1812-56
				245181258	SB1875-57
				24518125N	SB1812-5N
				24518127	SB1812-7
				24518141	SB1814E-1
				24518151	SB1815E-1
				2451817	SB1812E-1
				2451817E3	SB1817E-3

Interchange Listing

FEDERAL MOGUL/ SEALED POWER (Cont'd)							
2451818 10	SB1693E-1N+010	245978 20	SB2590E-1+020	FP13GC2247P30	SB2088E-1+030	FP1W3860	.01468S
2451818 20	SB1693E-1N+020	245997	SB1880E-2	FP13GC2251	SB1831E-1	FP1W4259	160-1198
24518530	SB1853E-1	2602501	220-1009	FP13GC2251P15	SB1831E-1+015	FP1W5283	SB1687E-1N
2451857E1	SB1857E-1	2602509	220-1016	FP13GC2251P31	SB1831E-1+030	FP1W5300	161-1018
24518750	SB1875-0	2602511	220-1002	FP13GC2251P5	SB1831E-1+005	FP1W5321	SB2006E-2
24518751	SB1875-1	2602515	220-1005	FP13GC2264P15	SB1692E-1N+015	FP1W8606	.01461S
24518751N	SB1875-1N	2602516	220-1021	FP13GC2264P31	SB1692E-1N+030	FP2033237	140-3058+5
24518752	SB1875-2	2602517	220-1023	FP13GC2264P5	SB1692E-1N+005	FP205091	121-1069
245187550	SB1875-50	2602537	220-1085	FP1406188	160-1453	FP205208	160-1176
245187551	SB1875-51	2602538	220-1096	FP1409670	140-3038	FP2061541	140-3140
245187554	SB1875-54	2602539	220-1088	FP144911	.00326S	FP20706118	SB1692E-1N
245187556	SB1875-56	2602540	220-1076	FP145701	.00602S	FP207241	.01534
24518756	SB1875-6	2602541	220-1025	FP1457390	.02161S	FP2102542	.01498S
24518757	SB1875-7	2602543	220-1093	FP146731	160-1424	FP2102542	.01804
24518759	SB1875-9	2602544	220-1113	FP1478211	.02160S	FP211999	160-1177
2451880E2	SB1880E-2	2602545	220-1074	FP1478214	122-1364	FP212940	SB2003E-3N
2451932	SB1691E-1	2602546	220-1098	FP1478220	140-3039	FP216707	.00703
24519371	SB1937-1	2602547	220-1091	FP1487425	140-7194	FP2243028	.13151
245193712	SB1937-12	2602548	220-1083	FP1487455	.01761S	FP2243030	.13280
245193717	SB1937-17	2602549	220-1052	FP1527585	.01912	FP2244441	160-1462
24519374	SB1937-4	2602550	220-1121	FP1528380	.01911	FP2265561	SB1687E-6C
24519375	SB1937-5	2602552	220-1095	FP1537023	.01911	FP2274239	240-1006
245193751	SB1937-51	2602553	220-1118	FP1537023	.01911	FP23500480	122-1221
245193752	SB1937-52	2602554	220-1077	FP1537024	.01912	FP23500501	.01500
24519730	SB1973E-1	2602554	220-1110	FP154390	SB1691E-2	FP23501580	240-1017
245200006	SB2000-6	2602558	220-1060	FP154391	SB1691E-2+010	FP23502067	.01455
24520001	SB2000-1	2602559	220-1072	FP156641	122-1362	FP23502068	.01566
24520002	SB2000-2	2602561	220-1103	FP1632478	122-1373	FP23505104	140-8133
24520003	SB2000-3	3802355	.01665	FP1669142	140-3130	FP23507238	121-1003
24520003N	SB2000-3N	612865	140-8356	FP169630	240-1008	FP23507238	122-1242
245200051	SB2000-51	71042	122-1349	FP1700591	SB1973E-1	FP23523930	122-1242
24520011	SB2001E-1	9968PT	230-2116	FP1701325	.01648	FP23524521	.01566
2452004E4N	SB2004E-4N	AT2000	VL48	FP1737188	140-7216	FP23529596	.13001
2452006E2	SB2006E-2	AT2041	170-1012	FP1804330	.01543	FP23529629	.13000
2452018E1	SB2020E-1	AT2070	VL81	FP1804420	122-1330	FP23535122	160-1486
24520621	SB2062-1	AT2073	170-1013	FP1805249	SB1669E-1	FP2418382	.13192S
24520622	SB2062-2	AT2084	VL31	FP1805250	SB1937-1	FP245107310	SB2006E-1+010
24520880	SB2088E-1	AT2085	VL554	FP1805250	SB1937-23	FP245107320	SB2006E-1+020
24521250	SB2125-0	AT2086	VL565	FP1805407	140-7689	FP2527801	.02168S
24521251	SB2125-1	AT2212	170-1011	FP1810944C1	121-1011	FP2543941	140-3123+5
245212510	SB2125-10	AT892	VL21	FP1811191	.01542	FP2543942	140-3123+20
24521252	SB2125-2	AT914	VL48	FP1818580	.01899	FP2543946	SB1577E-1+020
24521253	SB2125-3	AT992	VL63	FP1818778	240-1025	FP2558676	.13421
24521290	SB2129E-1	ES74034	220-1018	FP1821901	SB1823E-1	FP2622957	.13420
2452129E2	SB2129E-2	FB5S7218	SB2131E-1	FP1823452	.01786	FP2646157	SB1656E-3
2452131E1	SB2131E-1	FP1007860	.01760S	FP1823453	.01785	FP2668718	SB2388E-2N
24521871	SB2187-1	FP1008150	140-8592	FP1823875	.01945	FP2682953	140-3058
24522201	SB2220E-1	FP1018314	.01632S	FP1823925	122-1320	FP2803979	SB1891E-2
24522501	SB2250-1	FP1026229	122-1373	FP1824642	.01943	FP2816157	160-1461
24522502	SB2250-2	FP1032454	160-1606	FP1824644	121-1091	FP2A4429	121-1000
24525621	SB2562-1	FP1070265	SB2004E-3N	FP1824644C1	121-1091	FP2N8943	SB2150E-1
2454448	SB2049E-1	FP1070268	SB2049E-1	FP1824646	140-3006	FP2N9299	140-7073
2454448 10	SB2049E-1+010	FP111446	160-1306	FP1824683	122-1426	FP2P1262	140-7194
245570	SB1847E-1	FP1152367	.01468S	FP1824683C1	122-1426	FP2S0893	140-6470
2455893	SB1812E-3	FP1152368	.01462S	FP1825540	160-1417	FP2S4213	160-1178
2455893 10	SB1817E-3+010	FP118939	187-1051	FP1833382	240-1027	FP2S5267	160-1179
2455893 20	SB1817E-3+020	FP1193061	240-1002	FP1838034	160-1458	FP2S8143	.01351S
245637	SB2503E-1	FP1196772	.01497S	FP1841566	121-1085	FP2W2620	.01760S
245637 20	SB2506E-1+020	FP1219839	.01805S	FP1845495	140-3036	FP2W2621	.01314S
2457000	SB1262E-1	FP1227353	.01857S	FP1854006	.13182	FP2W2622	.01462S
2457000 10	SB1262E-1+010	FP1227375	140-3007	FP1854007	.13183	FP2W2877	.01491S
2457000 20	SB1262E-1+020	FP1228612	140-3007+5	FP1889268	140-3079	FP2W3211	.01476S
2457000 30	SB1262E-1+030	FP123558	187-1052	FP1916760	SB2368E-2N	FP2W4837	SB2004E-3N
2457000 40	SB1262E-1+040	FP12GC129P1	240-1021	FP1916766	140-3139	FP3003565	SB1687E-6C
2457002	SB1442E-1	FP1302607	SB2387E-2	FP1944897	.02168S	FP3006456	140-7994
2457002 20	SB1442E-1+020	FP1339306	140-8679	FP1944901	160-1461	FP3006457	140-7264
2457002 30	SB1442E-1+030	FP135957	.00603	FP1944902	160-1460	FP3007759	240-1009R
2457002+20	SB1442E-1+020	FP1376718	160-1454	FP195000	SB1691E-1	FP3013331	187-1062
245794	SB2503E-2	FP138887	.00702	FP195001	SB1691E-1+010	FP3017759	SB2003E-1
245794 20	SB2506E-2+020	FP138937	140-1941	FP1977055	121-1095	FP3026296	SB2381E-1
2458943	SB2150E-1	FP13GC2234P1	SB2444E-1	FP1N4885	.01146S	FP3028070	SB1812E-4
245977	SB2435E-1	FP13GC2234P15	SB2444E-1+015	FP1S5738	SB2435E-2N	FP3028071	SB1812E-4+010
245978	SB2590E-1	FP13GC2234P30	SB2444E-1+030	FP1S6654	140-6469	FP3028072	SB1812E-4+020
		FP13GC2247P1	SB2088E-1	FP1W1818	.01459S	FP3028073	SB1812E-4+030
		FP13GC2247P15	SB2088E-1+015	FP1W1819	.01458S	FP3031098	SB2381E-1+010
		FP13GC2247P30	SB2088E-1+030	FP1W2715	121-1079	FP3032285	SB2006E-1

Interchange Listing

FEDERAL MOGUL/ SEALED POWER (Cont'd)							
FP3032287	SB2006E-1+010	FP3904716	SB1857E-1	FP5193666	00411	FP7S3161	170-1011
FP3032288	SB2006E-1+020	FP3906854	SB1853E-1	FP5195167	01500	FP7S6323	160-1191
FP3032289	SB2006E-1+030	FP3908830	SB2129E-2	FP5196752	SB1161E-1+010	FP7S7144	160-1192
FP3032291	SB2006E-1+005	FP3915506	01667	FP5197167	SB1262E-1+010	FP7W4602	01784
FP3033232	160-1304	FP3916588	160-1669	FP5197168	SB1262E-1+020	FP85687	SB1695E-1
FP3033233	160-1303	FP3916691	160-1650	FP5197170	SB1262E-1+030	FP8920390	240-1018R
FP3033234	01532	FP3920867	01665	FP5197176	01018	FP8921209	122-1189
FP3033314	140-7625	FP3920868	01664	FP5198230	SB1628E-2+010	FP8921209	122-1223
FP3035110	01533S	FP3921444	01666	FP5198232	SB1628E-2+020	FP8921501	SB1161E-1
FP3035996	160-1305	FP3921640	122-1269	FP5198233	SB1628E-2+030	FP8921502	SB1161E-1
FP3036934	187-1067	FP3922713	02257	FP5199323	00759	FP8921741	122-1224
FP3040830	00602	FP3922714	01862	FP5278913	01756	FP8922516	01500
FP3050369	140-7994	FP3924492	01667	FP54GC25	121-1094	FP8923813	187-1079
FP3054600	SB2006E-5	FP3924582	SB2129E-2	FP575GC1100	160-1171	FP8923814	187-1080
FP3062096	187-1068	FP3926700	160-1379	FP575GC213	160-1189	FP8924439	187-1081
FP3068519	01660	FP3932453	160-1527	FP575GC36	160-1624	FP8925981	240-1013
FP3069672	01661S	FP3940123	121-1097	FP5H7071	240-1000	FP8927794	160-1186
FP3070460	160-1302	FP3942588	02188	FP5S1757	SB2590E-1	FP8927857	160-1194
FP3070486	240-1009	FP3942589	02187	FP5S6449	01203	FP8927920	SB1628E-2
FP3071147	240-1010	FP3947759	VL565	FP5S6452	01204	FP8927953	121-1003
FP3073509	122-1241	FP3968074	SB1554E-2	FP6127111341	140-8160	FP8929072	122-1242
FP3076515	SB1953E-2C	FP3968183	13161	FP612864	140-7681	FP8929105	161-1039
FP3078399	01659S	FP3969637	13163	FP66890	140-1969	FP8929126	SB1628E-3
FP3081212	160-1305	FP3970727	13162	FP6710414210	00602	FP8929127	SB1819E-1
FP3084020	SB1953E-3	FP3B1143	121-1030	FP671559	SB2001E-1	FP8929415	160-1418
FP3084045	01756	FP3S0461	161-1028	FP671561	SB2001E-1+013	FP8929573	121-1080
FP3088389	01734	FP4062872	160-1406	FP671563	SB1628E-1N	FP8929590	01566
FP3088391	01533S	FP41339	121-1007	FP671565	SB1628E-1N+013	FP8H1993	00852S
FP3088393	01534	FP428046	140-7336	FP675043	SB1999E-1	FP8H1994	00574S
FP3142L051	01887	FP4312008	122-1448	FP675046	01423	FP8M4014	SB2435E-1
FP31431315	01783	FP4393425	SB1953E-4C	FP675439	140-7431	FP8M9810	SB2506E-1
FP3163410	01847S	FP446GC279	122-1322	FP675450	SB1628E-1N	FP8N0875	01203
FP3165976	160-1677	FP446GC296	122-1274	FP676865	01422S	FP8N0875	01205S
FP3165977	160-1676	FP446GC328	122-1274	FP677349	160-1416	FP8N3723	00751S
FP3170135	140-8496	FP4688825	02168S	FP681234	122-1177	FP8N7782	161-1018
FP317365	160-1206	FP489101	01649	FP681234C1	122-1177	FP90210012	160-1406
FP3177213	SB1577E-1+010	FP4957806	160-1406	FP682064	160-1190	FP90210014	SB2003E-6N
FP3226064	01656S	FP4F0212	00319	FP688GC2352	01037	FP90210014+10	SB2003E-6N+010
FP3226068	01721S	FP4N2803	140-7216	FP688GC2352A	01037	FP911776	170-1012
FP3275354	121-1027	FP4N3664	140-7083	FP688GC2378	01570	FP911776R3	170-1012
FP3275356	01420S	FP4N3666	140-7242	FP688GC2389	01750	FP9H9164	160-1179
FP3275779	01420S	FP4N3668HT	140-8486	FP688GC337	01446	FP9L7682	01379
FP3322152	160-1463	FP4N5906	160-1184	FP688GC337A	01037	FP9L7683	01378
FP3328781	122-1241	FP4N6761	161-1029	FP688GC337A	01446	FP9M3205	SB1812E-1
FP3394116	SB2006E-6C	FP4S8902	SB1693E-1N	FP688GC344	02095	FP9M3205	SB1818E-1
FP339411610	SB2003E-6N+010	FP4W2471	160-1213	FP690GC2187	01036S	FP9M4163	00753S
FP3417713	01658S	FP4W2472	160-1207	FP690GC2187A	01036S	FP9M4163	00754
FP3417717	240-1011	FP4W2474	161-1030	FP690GC2187B	01036S	FP9M5349	160-1196
FP3417779	01662S	FP4W3778	140-7681	FP690GC2193	01415S	FP9M5350	160-1197
FP3418040	SB1812E-4	FP4W3779	140-7682	FP690GC2210	01571S	FP9M6495	SB1880E-2
FP3418044	SB1812E-4+010	FP5101101	SB1262E-1	FP690GC32	13307S	FP9M8745	SB2506E-2
FP3418045	SB1812E-4+020	FP5104280	01429S	FP69965	SB1847E-1	FP9N2837	SB1912E-1
FP3418046	SB1812E-4+030	FP5104701	240-1013R	FP6H3026	00318	FP9N5125	01497S
FP3487743	187-1087	FP5106136	01366	FP6I0282	01887	FP9N5495	160-1218
FP3629006	160-1176	FP5108918	187-1069	FP6I1196	01887	FP9N5496	160-1217
FP3633840	160-1641	FP5111337	121-1011	FP6I2663	161-1041	FP9N5786	170-1013
FP3679551	160-1479	FP511332	240-1015	FP6I2864	140-8357	FP9Y1847	140-3143
FP3686661	13309S	FP5116137	00758	FP6N2236	140-7255	FPA11801	00678
FP3801356	01532	FP5116362	SB1161E-1+020	FP6N7174	122-1328	FPA11802	02084
FP3801357	01531	FP5116363	SB1161E-1+030	FP6N7175	161-1038	FPA182172	01826
FP3802085	01666	FP5120930	140-1680	FP6N8847	140-7357	FPA27872	121-1049
FP3802275	01667	FP5129919	140-1946	FP6N9915	01760S	FPA38422	00691
FP3802356	01664	FP5131961	140-6254	FP722GC219A	161-1023	FPA38423	00690
FP3803348	01531	FP5139982	SB1899E-1	FP722GC226A	161-1023	FPA66336	161-1003
FP3818520	01531	FP5144019	160-1185	FP7C4273	160-1451	FPA66444	160-1226
FP3820700	SB1812E-4T	FP5145172	00759	FP7E1551	140-8594	FPB367R	121-1000
FP3883287	01658S	FP5147347	160-1186	FP7E4609	01145S	FPMV1902	122-1007
FP3895860	160-1414	FP5147424	160-1187	FP7E4609	01498S	FPR133891	160-1456
FP3900250	121-1079	FP5148490	SB1442E-1	FP7E7830	01145S	FPR26125	160-1205
FP3901097	122-1053	FP5148493	SB1442E-1+020	FP7M7358	00755	FPR28654	140-1898
FP3901177	121-1073	FP5148494	SB1442E-1+030	FP7M7817	00752S	FPR28654R	140-1898
FP3902254	01666	FP5149386	01429S	FP7N0573	01761S	FPR35431	121-1009
FP3904105	SB1722E-1	FP5149724	240-1018	FP7N1649	SB2004E-4N	FPR43679	01375
		FP5149771	01366	FP7N2051	140-7338	FPR43680	SB1937-1
		FP5185327	00327	FP7N4448	SB2049E-1	FPR43681	SB1750-1N
		FP5193197	00327	FP7N7639	161-1035	FPR43883	01336S

Interchange Listing

FEDERAL MOGUL/ SEALED POWER (Cont'd)							
FPR43914	01404	FPV1701	00883	HT2272	VL120	MV1901S	122-1216
FPR44174	01289	FPV1769	00918	HT2274	VL135	MV1902	122-1007
FPR44175	01288	FPV1836	00989	HT2276	VL149	MV1903	122-1045
FPR45823	01406	FPV1837	01073	HT2278	VL173	MV1909	122-1031
FPR48313	SB2136E-1N	FPV1840	01041	HT2279	VL163	MV1910	122-1006
FPR48314	SB1991E-1N	FPV1854	01147	HT2280	VL176	MV1911S	122-1217
FPR49569	160-1448	FPV1855	01148	HT2281	VL115	MV1912	122-1287
FPR49571	160-1449	FPV1948	00983	HT2296	VL123	MV1915	122-1177
FPR501640	122-1443	FPV1974X	00982S	HT2297	VL171	MV1921	122-1037
FPR50356	SB1750-2N	FPV2086	00608	HT2302	VL156	R1001	180-1079
FPR50357	01377	FPV2087	00609	HT2303	VL558	R1002	180-1080
FPR50358	01403	FPV2100	00921	HT2304	VL178	R1007	180-1315
FPR503906	160-1667	FPV2101	00922	HT2305	VL180	R1008	180-1012
FPR504235	160-1585	FPV2149	00873	HT2307	VL175	R1008	181-1018
FPR517011	140-3050	FPV2150	00874	HT2308	VL562	R1018	180-1240
FPR51734	SB1638E-1N	FPV2164	00923	HT2310K	VL555LA	R1019	180-1265
FPR518327	SB1832E-1	FPV2165	00924	HT2311K	VL556LA	R1020	180-1266
FPR518328	13176	FPV2219	01055	HT2312K	VL557LA	R1021	180-1267
FPR518872	160-1602	FPV2220	00867	HT2313	VL561	R1046	181-1034
FPR520223	13177S	FPV2422X	01650S	HT2314	VL575	R1052	181-1041
FPR520224	13178S	FPV2494	01695S	HT2332	VL560	R1090	181-1063
FPR52251	01234	FPV3924	01042	HT6000	VL141	R1092	180-1008
FPR527286	140-3131	FPV3928X	01075S	HT6007	VL141	R1093	180-1007
FPR53192	140-8004	FPV4075	00682	HT812	VL8	R1094	180-1288
FPR59894	SB2136E-1N	FPV4097	00683	HT817	VL37	R1095	180-1313
FPR60537	SB1991E-1N	FPV4238	00154	HT817HP	VL117RH	R1096	180-1284
FPR63982	01412	FPV796	00155	HT817R	VL66RH	R1098	180-1324
FPR73064	SB1858E-1N	FPV816	00249	HT846	VL5	R1119	181-1060
FPR75690	01590S	FPV839	00161	HT855	VL32	R1120	181-1064
FPR78702	SB1750-2	FPV840	00162	HT900	VL35	R1122	180-1207
FPR79623	01234	FPV841	00205	HT900R	VL67RH	R1139	180-1322
FPR79624	01233	FPV842	00193	HT951	VL49	R1141	180-1333
FPR82508	SB1750-2+010	FPV843	00203	HT969	VL73	R1142	180-1321
FPR83071	01471S	FPV844	00204	HT969R	VL117RH	R1143	180-1320
FPR84618	01587	FPV868	00168	HT976	VL64	R814	180-1059
FPR84619	01586	FPV869	00169	MR1751	184-1038	R826	181-1011
FPR84976	SB1933E-2	FPV954	00196	MR1780	183-1024	R828	180-1056
FPR84977	SB2051E-4	FPV959	00210	MR1783	183-1017	R829	180-1055
FPR87627	122-1023	FPV999	00220	MR1809	183-1030	R832	181-1012
FPR90692	01588	FPVG226	140-1421	MR1810	183-1021	R836	181-1023
FPR91822	160-1447	FPVG296	140-1458	MR1811	183-1022	R847	181-1041
FPR91889	121-1078	FPVG362	140-1547N	MR1813	184-1040	R848	181-1044
FPR98062	01589	FPVG5040	140-7669	MR1816	183-1027	R849	181-1020
FPR98063	SB1856E-1	FPVG5079T	140-7552	MR1822	183-1032	R850	181-1025
FPRE11410	161-1040	FPVG5084T	140-6905	MR1823	184-1039	R851	181-1014
FPRE518083	SB1437E-2	FPVG594	140-1881	MR1829	187-1014	R853	181-1021
FPRE529187	122-1421	FPVG659	01943	MR1837	184-1032	R854	181-1040
FPRE60005	161-1042	FPVG840	140-1543	MR1839	183-1014	R855	180-1233
FPT20077	121-1000	FPVG842	140-1872	MR1840	183-1028	R856	181-1057
FPV1012	00230	FPVG862	140-6990	MR1847	184-1035	R861	180-1077
FPV1017	00234	FPVK142	121-1010	MR1883	184-1025	R862	180-1078
FPV1025	00268	FPVS1462	160-1220	MR1906	184-1023	R865A	180-1239
FPV1050	00159	FPVS1577	160-1635	MR1908	184-1022	R865R	181-1049
FPV1051	00160	HT2011	VL89	MR1910	184-1020	R868R	181-1034
FPV1053	00269	HT2012	VL83	MR1910RS	184-1020	R869	180-1040
FPV1095	00270	HT2056	VL109	MR1934	184-1038	R870	180-1041
FPV1102	00343	HT2077	VL73	MR1947	184-1033	R873	180-1037
FPV1178	00348	HT2083	VL9	MR1951	184-1034	R875	181-1032
FPV1218X	00427S	HT2089	VL88	MR8923814	187-1080	R879	181-1035
FPV1219	00428	HT2095	VL94	MR8924439	187-1081	R879A	180-1234
FPV1326X	00598S	HT2102	VL86	MV-1919	122-1079	R881	181-1016
FPV1421	00489	HT2104	VL114	MV1233	122-1043	R882	181-1059
FPV1422	00486	HT2105	VL87	MV1559	122-1041	R884	180-1290
FPV1471	00793	HT2127	VL107	MV1598	122-1037	R886	181-1057
FPV1472	00912	HT2148	VL115	MV1599	122-1035	R886R	181-1048
FPV1543	00601	HT2167	VL106	MV1760	122-1003	R890	180-1326
FPV1573	00592	HT2205	VL100	MV1766	122-1005	R894	181-1017
FPV1574	00593	HT2217	VL113	MV1769	122-1075	R896	181-1018
FPV1577	00503	HT2220	VL106	MV1772	122-1035	R905	181-1028
FPV1578	00504	HT2225	VL106	MV1773	122-1033	R905	181-1037
FPV1634	00658	HT2236	VL116	MV1798	122-1059	R905A	180-1236
FPV1635	00659	HT2244	VL150	MV1817	122-1038	R907	180-1007
FPV1696	00485	HT2254	VL146	MV1828	122-1039	R909	180-1028
		HT2269	VL106	MV1828	122-1206	R912	180-1004
		HT2270	VL138	MV1880	122-1047	R922	180-1264
		HT2271	VL107	MV1888	122-1048	R923A	180-1228

Interchange Listing

FEDERAL MOGUL/ SEALED POWER (Cont'd)							
R948	180-1029	RP3235	190-1454	ST2065	122-1203	V1219	00428
R949	181-1060	RP3236	190-1455	ST2066	122-1136	V1262	00411
R950	180-1292	RP3237	190-1531	ST2069	122-1159	V1285	00494
R973	181-1061	RP3238	190-1500	ST2071	122-1125	V1296X	00326S
R973A	180-1283	RP3241	190-1473	ST2073	122-1069	V130	00100
RC119	161-1003	RP3244	190-1489	ST2074	122-1127	V1326X	00598S
RC13S	161-1023	RP3252	190-1425+60	ST2075	122-1132	V1328X	00574S
RC147	161-1040	RP3253	190-1478	ST2076	122-1086	V1329X	00852S
RC150	161-1033	RP3254	192-1338	ST2079	122-1147	V1339	00520
RC157S	161-1012	RP3255	192-1339	ST2081	122-1150	V1343	00518
RC163S	161-1013	RP3259	190-1502	ST2082	122-1149	V1344	00514
RC630	161-1023	RP3260	192-1322U40	ST2084	122-1152	V1351	00185
RC642	161-1018	RP3262	192-1485	ST2087	122-1077	V1358X	00530SN
RC78S	161-1020	RP3263	192-1480	ST2089	122-1232	V1359X	00531S
RP-3339	190-1507	RP3273	192-1481	ST2090	122-1052	V1372	01500
RP-3342	190-1500	RP3274	192-1482	ST2092	122-1047	V1383	00549
RP3017	190-1221	RP3275	192-1442	ST2092	122-1196	V1384	00550
RP3021	190-1222	RP3276	190-1529	ST2098	122-1215	V1386	00548
RP3022	190-1543	RP3277	190-1507	ST2103	122-1066	V1421	00489
RP3028	192-1229	RP3278	190-1536	ST2105	122-1073	V1422	00486
RP3036	190-1349	RP3279	190-1509	ST2109	122-1067	V1427	01242
RP3076	190-1280	RP3282	192-1484	ST2114	122-1162	V1428	00585
RP3093	192-1331	RP3283	190-1532	ST2115	122-1163	V1434	00567
RP3102	190-1269	RP3284	190-1511	ST2117	122-1198	V1434+15	00567+15
RP3103	192-1336	RP3285	192-1491	ST2119	122-1142	V1439	00564
RP3104	192-1337	RP3286	192-1506	ST2120	122-1155	V1471	00793
RP3105	192-1378	RP3287	192-1505	ST2122	122-1204	V1472	00912
RP3106	192-1377	RP3317	190-1530	ST2122	122-1205	V1499	02084
RP3107	190-1342	RP3328	192-1513	ST2124	122-1202	V1500	00678
RP3133	190-1370	RP3330	190-1534	ST2125	122-1260	V1517	00690
RP3160	190-1425	RP3331	190-1535	ST2127	122-1258	V1518	00691
RP3164	190-1433	RP3332	190-0471	ST2128	122-1314	V1528X	00559S
RP3164+060	190-1433+60	RP3333	190-1525	ST2129	122-1236	V1529	00560
RP3165	192-1321	RP3337	190-1524	ST2130	122-1206	V1537	00627
RP3166	192-1439	RP3338	192-1508	ST2131	122-1229	V1539	00637
RP3167	192-1409	RP3339	192-1507	ST2131	122-1299	V1539+15	00637+15
RP3170	192-1462	RP3340	190-1533	ST2135	122-1226	V1542	00600
RP3171	190-1429	RP3341	190-1539	ST2140	122-1449	V1543	00601
RP3172	190-1351	RP3345	190-1538	ST2142	122-1074	V1552	00758
RP3172A	190-1351+60	RP3347	192-1512	ST2143	122-1223	V1553	00759
RP3172B	190-1351U60	RP3348	192-1485	ST2145	122-1333	V1570	00327
RP3172C	190-1426	RP3349	190-1537	ST2146	122-1327	V1573	00592
RP3173	190-1349	RP3350	192-1511	ST2148	122-1180	V1574	00593
RP3174	190-1411	RP3351	190-1541	ST2152	122-1337	V1577	00503
RP3176	190-1327	RP3352	190-1553	ST2152	122-1338	V1578	00504
RP3176B	190-1327U54	RS621	186-1090	ST2154	122-1447	V1605	00555
RP3178	190-1385	RS626	186-1100	ST2155	122-1441	V1612	00696
RP3179	190-1421	RS725	186-1121	V1003X	01206S	V1615X	00819S
RP3180	192-1330	SB131256	SB1312-56	V1004	00257	V1616	00734
RP3181	192-1503	SB137518	SB1375-18	V1005	00298	V1622X	00602S
RP3182	192-1504	SB143765	SB1437-65	V1012	00230	V1623	00603
RP3183	192-1322	SB150075	SB1500-75	V1013	00312	V1624X	00702
RP3184	190-1395	SB156217	SB1562-17	V1014	00313	V1625	00703
RP3185	190-1396	SB200015	SB2000-15	V1017	00234	V1634	00658
RP3186	190-1417	SS70829	122-1336	V1050	00159	V1635	00659
RP3188	192-1335	SS71035	122-1350	V1051	00160	V1645	00754
RP3191	190-1408	SS72867	122-1230	V1052	00268	V1646X	00753S
RP3193	190-1403	ST1181	122-1181	V1053	00269	V1647	00755
RP3194	190-1450	ST2001	122-1014	V1060	00302	V1648X	00751S
RP3195	192-1381	ST2002	122-1031	V1076	00308	V1649X	00752S
RP3197	190-1384	ST2003	122-1238	V1086	00349	V1671X	00746S
RP3200	190-1440	ST2004	122-1015	V1095	00270	V1681	00303
RP3202	190-1328	ST2005	122-1009	V1102	00343	V1696	00485
RP3204	190-1433	ST2011	122-1017	V1115	00373	V1700	00882A
RP3205	190-1438	ST2012	122-1268	V1121	00319	V1701	00883
RP3206	192-1446	ST2014	122-1011	V1122	00318	V1710	00742
RP3207	192-1444	ST2015	122-1079	V1127	00375	V1717	01268
RP3208	190-1449	ST2016	122-1189	V1128	00376	V1719	00963
RP3209	190-1443	ST2033	122-1082	V1173	00310	V1722	00938
RP3211	192-1453	ST2034	122-1119	V11735X+15	00996S+15	V1722+15	00938+15
RP3221	192-1453	ST2037	122-1130	V1174	00311	V1743	00958
RP3232	190-1489	ST2039	122-1089	V1178	00348	V1744	00976
RP3233	190-1435	ST2043	122-1053	V1199	00400	V1745	00975
RP3234	190-1522	ST2044	122-1052	V1200	00399	V1753X	00996S
		ST2054	122-1136	V1200+15	00399+15	V1754	00997
		ST2056	122-1114	V1218X	00427S	V1755	00919

Interchange Listing

FEDERAL MOGUL/ SEALED POWER (Cont'd)							
V1756	00988	V1912+15	01107+15	V2056R	01775R	V2186X	10060S
V1764X	01177S	V1918	01215	V2061	01354	V2187	10061
V1767	00949	V1920	01216	V2072X	01368S	V2190	01520
V1768X	00917SN	V1926	01195	V2073	01357	V2192	01519
V1769	00918	V1926+15	01195+15	V2074	01358	V2193	01520
V1770	00970	V1926+3	01195+3	V2075	01170	V2194	01448
V1772	00974	V1927	01193	V2075+15	01170+15	V2195	01449
V1773	00969	V1927+15	01193+15	V2076	01361	V2196	01450
V1775	01457	V1928	01194	V2077	01362	V2201	01451
V1776	01002	V1932	01137	V2083X	01346S	V2202	01452
V1783	00947	V1932+15	01137+15	V2086	00608	V2203	01814
V1784	01000	V1937X	01177S	V2087	00609	V2205	01441
V1784+15	01000+15	V1940	01199	V2088X	01422S	V2206	01442
V1785	01001	V1942	01212	V2089	01423	V2213X	01523S
V1785+15	01001+15	V1943	01210	V2090X	01431S	V2214	01524
V1791X	01036S	V1947X	00982S	V2091	01432	V2215X	01525S
V1792	01037	V1948	00983	V2092	01378	V2216	01526
V1797	01188	V1952X	01075S	V2093	01379	V2217X	01468S
V1798	01082	V1954X	01217S	V2094X	01314S	V2218X	01462S
V1799	01189	V1955	01288	V2095	01367	V2219	01055
V1800	01105	V1956	01289	V2095+15	01367+15	V2220	00867
V1801	01083	V1961	01135	V2098	01375	V2226	01511
V1802	01084	V1961+15	01135+15	V2099X	01336S	V2227	01512
V1813	01072	V1961+3	01135+3	V2100	00921	V2229	00603
V1826	01098	V1963	01245	V2101	00922	V2236	01018
V1830	01047	V1964	01296	V2103	10031	V2238	10083
V1831	01048	V1967	01247	V2103	10065	V2239	10076
V1832	01093	V1970	01268	V2104X	10036S	V2242	10078
V1833X	01057S	V1979	01258	V2105	10015	V2249	10269
V1834X	01133S	V1980	01257	V2108X	01376S	V2249X	10269
V1836	00989	V1981	01260	V2110	01377	V2250	10268
V1837	01073	V1983	01266	V2111	01233	V2255	10106
V1840	01041	V1983+15	01266+15	V2112	01234	V2256	10107
V1841	01042	V1984	01271	V2113	01309	V2257	10069
V1849	01102	V1984+15	01271+15	V2114X	01506S	V2258	10070
V1850	01103	V1985	01292	V2115	01507	V2263	10330A
V1853	01242	V1986	01293	V2116	01389	V2264	10328A
V1853+15	01242+15	V1987X	01241SN	V2117	01388	V2265	10060S
V1854	01147	V1988X	01294S	V2119	01402	V2265X	10060S
V1854	01693S	V1988X+15	01294S+15	V2120	01403	V2268	10217
V1855	01148	V1989X	01261S	V2121	01404	V2269	10216
V1861	01131	V1989X+15	01261S+15	V2122X	01305S	V2274	01265
V1863	01307	V1991	01272	V2123	01306	V2277X	01474S
V1874	01087	V1992	01300	V2124	01471S	V2280	01455
V1874+15	01087+15	V1993	01285	V2125	01406	V2281	01456
V1879	01171	V1995	01263	V2131	01412	V2282X	01483S
V1880	01172	V1997XK	01312S	V2132	01590S	V2284	01508
V1881	01203	V1998	01597	V2133	01381	V2287	01484
V1882	01204	V1998	01744	V2134	01382	V2288X	01482S
V1883X	01205S	V1999	01598	V2135X	01383SN	V2290	01480
V1884X	01145S	V2011	10034S	V2136X	01384S	V2290+15	01480+15
V1885X	01146S	V2023	01325	V2137X	01385SN	V2291	01481
V1888X	01206S	V2024	01326	V2138X	01386S	V2291+15	01481+15
V1888X	01807S	V2024K	01326	V2141	01399	V2294	01479
V1891	01135	V2026	01322	V2142	01380	V2295	01478
V1893	01237	V2027	01323	V2143	01393	V2299	01527
V1893+15	01237+15	V2028	01324	V2144	01366	V2300	01528
V1894	01238	V2029	01329	V2147	01446	V2301X	01471S
V1897	01152	V2029K	01329	V2148X	01415S	V2302	01542
V1900	01156	V2029K+15	01329+15	V2149	00873	V2303	01543
V1900+15	01156+15	V2030	01169	V2150	00874	V2305X	10215S
V1902	01160	V2030+15	01169+15	V2154	01419	V2308	10127
V1903	01161	V2031	01321	V2155	01417	V2309	10129
V1904	01192	V2032	01320	V2156X	01420S	V2310	10142
V1904+15	01192+15	V2037	01310	V2161X	01429S	V2312	10145
V1904.3	01192+3	V2039	01332	V2164	00923	V2313	10146S
V1905	01164	V2039+15	01332+15	V2165	00924	V2316	10255
V1907	01186	V2040	01358	V2166	10056	V2322	10281
V1908	01180	V2041	00963	V2167X	10037	V2325	10256
V1908+15	01180+15	V2041	01120	V2168	10048	V2326	10271
V1909	01188	V2044	01327	V2169	01397	V2330	10282
V1911	01106	V2045	01328	V2170	01598	V2331	10141
V1912	01107	V2045+15	01328+15	V2172	01394	V2332X	10138
		V2046X	01350S	V2173	01395	V2334X	10102S
		V2047X	01351S	V2181	10087	V2334X	10302
		V2052R	01772R	V2182	10064	V2335	10103

Interchange Listing

FEDERAL MOGUL/ SEALED POWER (Cont'd)	V2511	01531	V2641X	10306S	V4208	01260	
V2336	10104	V2512X	01581S	V2643	10224	V4211	10247
V2337	10105	V2514	01567	V2644X	10229	V4213	01442
V2344	10236	V2515	01566	V2645X	10228	V4213	10388
V2345	10237	V2516	01580	V2646X	10227S	V4219	01598
V2352	10307	V2517X	01760S	V2647	10226	V4222	01432
V2355	10308	V2518X	01761S	V2648	01704	V4227	10214
V2360	01648	V2519	01761S	V2649	01705	V4231	00919
V2361	01649	V2520	01760S	V2652	10126A	V4238	00154
V2364	01504	V2523	01432	V2652N	10126A	V4335	10220S
V2365	01505	V2524X	00559S	V2653	10128A	V4336	01737
V2365+15	01505+15	V2525	00560	V2653N	10128A	V4341	01619
V2366X	10193	V2526	01556	V2654	01715	V4342	01710
V2367	10192	V2527	01557	V2656	01698	V4344	01931
V2403X	10370S	V2529	01591	V2660	10144	V4345	01807
V2404	10367	V2530	01592	V2661	10143	V4346	01736
V2411X	10349S	V2532	10117	V340	00121	V4347	10506
V2412	10348	V2533	10116	V341	00122	V4348	10507
V2416	10406	V2534X	01590S	V3912	10247	V4349	10432
V2421	00602	V2535	01588	V3913	10243	V4355	10164
V2422X	01650S	V2536	01589	V3915	01710	V4356	10516
V2426X	01497S	V2537	01586	V3916	01711	V4357	10517
V2427	01552	V2538	01587	V3918	10388	V4360	10157
V2428	01553	V2539X	01504S	V3919	10206	V4361	10159
V2429	01537	V2544X	01574S	V3921	00313	V4364	10234
V2430	01538	V2547	10196	V3923	01097	V4366	10235
V2431	02058	V2548	10195	V3924	01042	V4367	10299
V2432	02057	V2553	10386	V3925	01307	V4368	10300
V2433	01554	V2553+15	10386+15	V3926	01238	V4369	10248
V2434	01555	V2554	10385	V3926+15	01238+15	V4370	10524
V2437	01551	V2554+15	10385+15	V3928X	01075S	V4371X	01547
V2438	01826	V2556	01675	V3929	01272	V4371X+15	01547+15
V2439	01273	V2557	01671	V3929+15	01272+15	V4372	10525
V2443	01569	V2558	01670	V3930	01018	V4374	10495
V2445	01545	V2559	10413	V3933	10142	V4375	10496
V2446	01546	V2560	10190	V3936	10103	V4376	10497
V2447	01535	V2561	10191	V3937	01504	V4380	01630S
V2448	01536	V2562	10625	V3937+15	01504+15	V4381	01631S
V2449X	01646S	V2563	10147	V3938	10192	V4384	01664
V2450X	01578S	V2563	10624	V3940	01554	V4385	01665
V2451X	01235S	V2565X	10198A	V3941	01551	V4385	02257
V2452	01548	V2566	10197A	V3942	01547	V4386	01666
V2452X	01548S	V2572	10270	V3943	01597	V4388	01667
V2453	01547	V2574	10314	V3945	01654	V4471X	01761S
V2455	01597	V2575	10315	V3946	10176	V4474X	01761S
V2456	01598	V2579	10244	V3947	01566	V4475	01702
V2457	01570	V2580	10273	V3949	10116	V4476	01703
V2458X	01571S	V2581X	10274S	V3950	01589	V4477	01706
V2473R	01762R	V2582	10137	V3951	01419	V4478	01707
V2474R	01763R	V2583	10138	V3952	10148	V4479	01708
V2475R	01765R	V2585	10305	V3952	10625	V4480	01709
V2476R	01767R	V2586	10340A	V3954	01714	V4481	01713
V2477R	01769R	V2587X	10339SA	V3954+15	01714+15	V4482	01712
V2478R	01770R	V2588X	10473	V3956	01699	V4483	01729
V2479R	01764R	V2589X	10474	V3957	01535	V4484	01731
V2480R	01771R	V2606	10387	V3993	01783	V4485	01730
V2481R	01773R	V2606+15	10387+15	V4005	01365	V4486	01742
V2482R	01774R	V2607	10153	V4022	10275	V4487	01741
V2483R	01776R	V2608	10118	V4064	10145	V4488	01743
V2484R	01777R	V2610	01674	V4065	10284	V4489	01746
V2494	01695S	V2611	01673	V4075	00682	V4490	01745
V2495	01654	V2612	01727	V4084	00210	V4491X	01780S
V2496	10323	V2613	01726	V4093	01265	V4492	01781
V2497	10322	V2614	01163	V4102	00549	V4493	01782
V2498	10177	V2615	10162	V4104X	01177S	V4494	01785
V2499	10176	V2616	10218	V4106	01441	V4495	01786
V2500	10311	V2619	10420	V4113K	01179	V4496	01810
V2501	10310	V2620	10421	V4119X	10034S	V4497	01811
V2502X	10337	V2626	10122	V4121	01329	V4498X	01698S
V2505	10309	V2627	10123	V4164	01809	V4499X	01699S
V2506X	10342S	V2630	10172	V4165X	10215S	V4500	01701
V2508X	10338S	V2633	10221S	V4167X	01261S	V4505	10500
V2509X	01721S	V2634X	10220S	V4168	01387	V4506	10501
V2510	01532	V2638	10414	V4168	01389	V4507	10520
		V2640	10206	V4185X	10276S	V4508	10521
		V2640	10207	V4198X	10285S	V4509	10522

Interchange Listing

FEDERAL MOGUL/ SEALED POWER (Cont'd)							
V4510	10523	V4634	10548	V4734	13225	VG1395T	140-8578
V4511	10534A	V4635	10549	V4735	13226	VG1396T	140-8583
V4512	10535A	V4636	01917	V4736	13265	VG1397T	140-8577
V4513	10543	V4637	01916	V4737	02175	VG1398T	140-8579
V4514	10544	V4638	02054	V4738	02176	VG1400T	140-8554
V4517	10562	V4641	10795	V4739	13211	VG1401T	140-8569
V4518	10563	V4643	02053	V4740	13212	VG1402T	140-8388
V4519	01728	V4644	02000	V4741	13042	VG1403T	140-8389
V4521	01790	V4645	01935	V4742	13266	VG1404T	140-8293
V4522	01791	V4647	01920	V4743	13333	VG1405T	140-8292
V4523	01739	V4648	01921	V4744	13288	VG1412	140-3020
V4524	10552	V4650	10536	V4745	13289	VG1413	140-8663
V4525X	10553S	V4655	01936	V4746	13263	VG1416T	140-8207
V4526	01723	V4656	10537	V4747	13264	VG1418T	140-8571
V4551X	01135S	V4657	10499	V4748	13251	VG1419T	140-8558
V4553	01744	V4658	10498	V4749	13252	VG1420T	140-8139
V4554	01556	V4659	10736	V4750	13344	VG1423T	140-8584
V4555	01877	V4660	10735	V4751	13345S	VG1424T	140-8585
V4556	01788	V4661	10374S	V4752	13161	VG1425T	140-8203
V4557	01735	V4662	10373	V4753	13237	VG1426T	140-8564
V4558	01903	V4664	10696S	V4755	13398	VG1427T	140-8565
V4559X	10282S	V4669	10502	V4759	13088	VG1428T	140-8173
V4560	10503	V4671	02014	V4760X	13089S	VG1434	140-3053
V4561	10542	V4672	02015	V4761	13240	VG1435	140-3019
V4562	10435	V4673	01997	V4762	13086	VG1436	140-3026
V4564	01789	V4674X	02010S	V4763	13087	VG1437	140-3010
V4565	01787	V4675	01998	V795	00154	VG1438	140-3011
V4566X	01699S	V4676	01999	V796	00155	VG1439	140-3021
V4567	02044	V4677	01918	V800	00170	VG1440	140-3022
V4569	01806	V4678	02036	V801	00810	VG1441	140-3033
V4570	01858	V4679	02234	V816	00249	VG1442	140-3034
V4571	01929	V4680	02235	V839	00161	VG1443	140-3149
V4572	01902	V4682	02220	V840	00162	VG1444	140-3049
V4573	10541	V4683	01993	V841	00205	VG1445	140-3142
V4574	10434	V4684	01994	V842	00193	VG1446	140-3166
V4579	01941	V4685	02118	V843	00203	VG1447	140-3163
V4580	01937	V4686	02119	V844	00204	VG1448	140-3118
V4581	01904	V4687	10778	V868	00168	VG1449	140-3119
V4582	01905	V4688	10779	V869	00169	VG226	140-1421
V4583	10742	V4689	10798	V869	00626	VG336	140-1515
V4585	01913	V4690	10799	V94084	10731	VG338	140-1504
V4586	01914	V4691	02175	V94085	10732S	VG350	140-1527
V4592	01934	V4692	02176	V94649	13337	VG354	140-1853
V4593	01935	V4693	01949	V94650	13338S	VG361	140-1545N
V4594	01745	V4694	01950	V954	00196	VG362	140-1547N
V4595	01746	V4695	13172	V959	00210	VG386	140-1577
V4596	02245	V4696	13173	V967	00212	VG414	140-1618
V4597	02246	V4697	10436	V999	00220	VG418	140-1620
V4598	02046	V4698	10437	VC244	161-9002	VG419	140-1337
V4599	02047	V4699	01991	VG130	140-1342	VG420	140-1338
V4600X	01924S	V4700	01992	VG1315	140-7577	VG428	140-1614
V4602	01924	V4705	13274S	VG1315	140-7577+2	VG437	140-1619
V4603	01925	V4706	10518	VG1317	140-9705	VG449	140-1689
V4605X	01925S	V4708	02265	VG1318	140-8039	VG450	140-1690
V4606	02008	V4709	02103	VG1319	140-8114	VG456	140-1697
V4608	01901	V4710	13073	VG1320	140-8115	VG457	140-1673
V4611	10556	V4711	13074	VG1321	140-8113	VG460	140-1704
V4612X	10803S	V4712	13043	VG1322	140-8256	VG461	140-1678
V4614	10804S	V4713	13044	VG1323	140-7357	VG463	140-1680
V4615X	10805S	V4714	13006	VG1324	140-7083	VG473	140-1732
V4617	10733	V4715	02180	VG1325	140-8277	VG474	140-1717
V4618X	10734S	V4716	02179	VG1326	140-8122	VG477	140-6469
V4622	10786	V4717	01919	VG1328	140-8188	VG478	140-1711
V4623	10787S	V4718	02007	VG1330	140-8177	VG485	140-1969
V4624	10547	V4719	02006	VG1331	140-8178	VG497	140-1703
V4625	10723	V4720	02172	VG1375	140-7999	VG499	140-1747
V4626	10794	V4721	02173	VG1377	140-8112	VG500	140-1726
V4627	02241	V4723	13046	VG1386T	140-8555	VG5001	140-7546
V4628	02240	V4724	13179	VG1387T	140-8556	VG5001T	140-9546
V4629	10321	V4725	02009	VG1388T	140-8561	VG5002	140-7259
V4630	10784	V4727	13194	VG1389T	140-8274	VG5002	140-9460
V4631X	02040S	V4728	13195	VG1390T	140-8560	VG5002H	140-9523H
V4632X	02040S	V4730	13183	VG1391T	140-8574	VG5002T	140-9259
		V4731	13182	VG1392T	140-8575	VG5002T	140-9523
		V4732	13294	VG1393T	140-8582	VG5003	140-7458
		V4733	13295	VG1394T	140-8397	VG5003T	140-9458

Interchange Listing

FEDERAL MOGUL/ SEALED POWER (Cont'd)					
VG5004	140-6116	VG570	140-1858	VG738	140-7813
VG5004T	140-9116	VG571	140-1859	VG741	140-7825
VG5005	140-5607	VG576	140-1860	VG743	140-7826
VG5005H	140-9607H	VG581	140-7876	VG747	140-7659
VG5005T	140-9607	VG594	140-1881	VG748	140-7710
VG5005T	140-9946	VG602	140-7994	VG750	140-7656
VG5006	140-5606	VG606	140-1897	VG7501R	340-1043BR
VG5006T	140-9606	VG607	140-1898	VG7503R	340-1025BR
VG5007	140-7298	VG615	140-1952	VG7504R	340-1037BR
VG5007H	140-9108H	VG619	140-1977	VG7505R	340-1036BR
VG5007T	140-9108	VG620	140-1976	VG751	140-7714
VG5007T	140-9298	VG622	140-1888	VG752	140-8018
VG5008	140-6115	VG623	140-1919	VG756	140-7336
VG5008	140-7554	VG626	140-1914	VG757	140-8017
VG5009	140-6869	VG628	140-1733	VG7578	140-8389
VG5009T	140-9869	VG629	140-1906N	VG758	140-7873
VG5011	140-9459	VG634	140-1937	VG7588	140-8388
VG5016	140-7198	VG635	140-1723	VG760	140-7828
VG5016T	140-9198	VG638	140-1962	VG783	140-7681
VG5016T	140-9206	VG639	140-1957	VG783	140-8357
VG503	140-1745	VG642	140-6881	VG784	140-7682
VG5033	140-6110	VG646	140-1968	VG785	140-8010
VG5034	140-6105	VG647	140-1946	VG786	140-8008
VG5035	140-5604	VG650	140-6254	VG787	140-8004
VG5036	140-6115	VG657	140-7242	VG788	140-8201
VG5037	140-6106	VG658	140-1944	VG789	140-8202
VG5038	140-7715	VG659	140-1943	VG790	140-8208
VG5039	140-7197	VG660	140-7174	VG791	140-8038
VG5040	140-7669	VG661	140-8420	VG792	140-8195
VG5042	140-7679	VG664	140-7372	VG793	140-7523
VG5046	140-6107	VG666	140-1941	VG796	140-8233
VG5047T	140-9107	VG669	140-8169	VG797	140-8157
VG5051T	140-9105	VG675	140-7529	VG803	140-8158
VG5052T	140-9715	VG676	140-7532	VG804	140-7712
VG5056T	140-9119	VG680	140-1909	VG804OE	140-8476
VG5057T	140-9554	VG681	140-1907	VG805	140-7625
VG5058T	140-9110	VG684	140-7498	VG809	140-8273
VG5059T	140-9114	VG688	140-1972	VG812	140-8211
VG5060T	140-9458	VG689	140-1973	VG813	140-8212
VG5061	140-7459	VG690	140-7208	VG814	140-8156
VG5062	140-6108	VG691	140-7542	VG815	140-8155
VG5064	140-7448	VG691	140-7545	VG816	140-8324
VG5065	140-7447	VG692	140-7255	VG817	140-8016
VG5068H	140-9977H	VG693	140-7255	VG822	140-8218
VG5069H	140-9460H	VG695	140-7431	VG823	140-8213
VG5070H	140-9964H	VG696	140-1970	VG824	140-8216
VG5071	140-5604	VG697	140-7714	VG825	140-8217
VG5072	140-5612	VG698	140-7713	VG826	140-8210
VG5073	140-6113	VG700	140-7662	VG828	140-8204
VG5075T	140-9705U	VG7002R	340-1021BR	VG840	140-1543
VG5076T	140-9111	VG7004R	340-1024BR	VG841	140-8004
VG5077T	140-9106	VG7005R	340-1044BR	VG842	140-1872
VG5078T	140-9609	VG7006R	340-1026BR	VG843	140-1874
VG5083T	140-8040	VG7007R	340-1027BR	VG844	140-1875
VG5085T	140-9204	VG700R	340-1030BR	VG855	140-1908
VG509	140-1476	VG701	140-7661	VG856	140-1927
VG5090	140-7174	VG704	140-7194	VG857	140-1947
VG526	140-1809	VG705	140-7359	VG859	140-1953
VG526T	140-7903	VG706	140-7523	VG860	140-1956
VG530	140-1817	VG709	140-7577	VG861	140-1966
VG538	140-1821	VG710	140-7576	VG862	140-6990
VG539	140-1823	VG711	140-8143	VG865	140-7450
VG540	140-1804	VG713	140-8172	VG866	140-7456
VG543	140-1832	VG713	140-8200	VG867	140-7408
VG544	140-1829	VG713	140-9557	VG869	140-7429N
VG544	140-1830	VG714	140-7575	VG870	140-7451N
VG546	140-1829	VG715	140-7574	VG883	140-7830
VG549	140-1839	VG721	140-7589	VG886	140-8209
VG555	140-1851	VG727	140-8319	VG899	140-8205
VG556	140-1852	VG729	140-7395	VG901	140-8191
VG557	140-1854	VG731	140-8021	VG902	140-8190
VG568	140-1865	VG733	140-7338	VG903	140-8194
VG569	140-1833	VG734	140-7499	VG904	140-8193
		VG735	140-7371	VG905	140-7444
		VG737	140-7822	VG910	140-8219
		VG738	140-6730	VG913	140-8147
				VG914	140-8255
				VG915	140-8189
				VG917	140-8291
				VG923	140-8544
				VG927	140-8142
				VG930	140-1568
				VK115	121-1003
				VK115R	121-1003
				VK136	121-1006
				VK138	121-1007
				VK138R	121-1007
				VK140	121-1009
				VK142	121-1010
				VK144	121-1011
				VK174	121-1014
				VK195	121-1017
				VK204	121-1083
				VK205	121-1019
				VK208	121-1026
				VK210	121-1023
				VK213	121-1034
				VK215	121-1047
				VK216	121-1021
				VK217	121-1049
				VK218	121-1027
				VK222	121-1051
				VK223	121-1018
				VK224	121-1020
				VK225	121-1052
				VK230	121-1031
				VK232	121-1039
				VK235	121-1054
				VK242	121-1058
				VK243	121-1059
				VK245	121-1060
				VK247	121-1048
				VK248	121-1061
				VK249	121-1062
				VK250	121-1063
				VK251	121-1064
				VK261	121-1065
				VK271	121-1067
				VK273	121-1063
				VK283	121-1090
				VK286	121-1079
				VK287	121-1084
				VK291	121-1085
				VK292	121-1072
				VK293	121-1082
				VK294	121-1097
				VK295	121-1098
				VK296	121-1087
				VK297	121-1104
				VK301	121-1100
				VK302	121-1128
				VK303	121-1129
				VK63	121-1001
				VK66	121-1000
				VK88	149-1001
				VK97	121-1002
				VS1414	160-1319
				VS1422	160-1236
				VS1426	160-1220
				VS1428	160-1124
				VS1431	160-1301
				VS1432	160-1291
				VS1433	160-1218
				VS1435	160-1041
				VS1438	160-1295
				VS1439	160-1196
				VS1445	160-1106
				VS1446	160-1216
				VS1455	160-1409
				VS1456	160-1378
				VS1461	160-1079
				VS1462	160-1072

Interchange Listing

FEDERAL MOGUL/ SEALED POWER (Cont'd)								
VS1463	160-1184	VS624	160-1131	VS861	160-1099	26426PT	230-2162R	
VS1509	160-1019	VS643	160-1006	VS862	160-1203	26458PT	230-2168	
VS1530	160-1112	VS648	160-1134	VS866	160-1307	26466PT	230-2180	
VS1534	160-1213	VS651	160-1136	VS868	160-1253	26517PT	230-2180	
VS1543	160-1080	VS653	160-1148	VS869	160-1252	26531PT	230-2194	
VS1547	160-1358	VS656	160-1135	VS888R	160-1003	26540	230-2169	
VS1550	160-1112	VS657	160-1139	VS901	160-1262	26565PT	230-2178	
VS1552	160-1103	VS658	160-1138	VS902	160-1261	26679PT	230-2176	
VS1553	160-1348	VS659	160-1179	VS907	160-1086	7733PT2	230-2028	
VS1562	160-1365	VS660	160-1142	VS909	160-1076	8168PT	230-2017	
VS1566	160-1360	VS661	160-1132	VS918	160-1071	8180PT2	230-2029	
VS1575	160-1120	VS665	160-1137	VS919	160-1054	8188PT	230-2033	
VS1576	160-1494	VS666	160-1140	VS920	160-1201	8190PT	230-2049	
VS1577	160-1635	VS671	160-1141	VS922	160-1083	8215PT	230-2041	
VS1594	160-1194	VS672	160-1151	VS924	160-1085	8699PT2	230-2025	
VS1609	160-1019	VS672	160-1152	VS932	160-1252	8770PT	230-2005	
VS1611	160-1205	VS673	160-1143	VS942	160-1271	8807PT1	230-2066	
VS1614	160-1124	VS674	160-1147	VS943	160-1272	8857PT	230-2016	
VS1618R	160-1147	VS675	160-1149	VS957	160-1393	9005PT	230-2082	
VS1628	160-1267	VS677	160-1144	VS957	160-1394	9014PT	230-2020	
VS1630	160-1264	VS678	160-1150	VS960	160-1238	9036PT1	230-2002	
VS1631	160-1269	VS682	160-1175	VS968	160-1241	9047PT	230-2140	
VS1632	160-1408	VS690	160-1156	VS970	160-1318	9071PT	230-2132	
VS1640	160-1410	VS691	160-1157			9076PT	230-2121	
VS1641	160-1266	VS693	160-1206	FELPRO			9086PT	230-2001
VS1642	160-1363	VS697	160-1178	26157PT	230-2125	9090PT	230-2047	
VS1643	160-1504	VS703	160-1161	26158PT	230-2147	9112PT	230-2006	
VS1644	160-1436	VS704	160-1005	26167PT	230-2156	9115PT	230-2073	
VS1647	160-1383	VS707	160-1159	26168PT	230-2164	9116PT	230-2005	
VS1649	160-1352	VS708	160-1003	26169PT	230-2164	9123PT	230-2037	
VS1656	160-1372	VS710	160-1001	26171PT	230-2153	9158PT	230-2105	
VS1657	160-1484	VS712	160-1145	26172PT	230-2149	9170PT1	230-2115	
VS1658	160-1379	VS713	160-1164	26173PT	230-2173	9174PT	230-2094	
VS1659	160-1488	VS714	160-1177	26180PT	230-2136	9196PT	230-2192	
VS1659	160-1488	VS717	160-1154	26181PT	230-2136	9210PT1	230-2060	
VS1661	160-1426	VS718	160-1004	26182PT	230-2138	9227PT1	230-2127L	
VS1663	160-1411	VS720	160-1147	26190PT	230-2186	9228PT	230-2015	
VS1664	160-1425	VS721	160-1006	26191	230-2186	9229PT	230-2127R	
VS1665	160-1490	VS727	160-1009	26192PT	230-2187	9233PT	230-2038	
VS1668	160-1617	VS728	160-1011	26196PT	230-2170	9239PT	230-2141	
VS1669	160-1616	VS72931	122-1458	26202PT	230-2120	9250PT	230-2124	
VS1670	160-1458	VS731	160-1217	26208PT	230-2165	9253PT	230-2124	
VS1671	160-1377	VS732	160-1218	26209PT	230-2165	9274PT	230-2123	
VS242	160-1604	VS733	160-1024	26214PT	230-2185	9284PT	230-2129	
VS295	160-1223	VS738	160-1187	26220PT	230-2154	9289PT	230-2038	
VS307	160-1220	VS739R	160-1144HP	26222PT	230-2135	9293PT	230-2137L	
VS313	160-1114	VS740	160-1186	26224PT	230-2190	9294PT	230-2137R	
VS336	160-1285	VS742	160-1192	26226PT	230-2195L	9296PT	230-2003	
VS337	160-1286	VS743	160-1023	26227	230-2195R	9309PT2	230-2009	
VS343	160-1296	VS748	160-1044	26229PT	230-2133	9332PT	230-2174	
VS356	160-1401	VS754	160-1013	262335PT	230-2158	9376PT	230-2058	
VS374	160-1116	VS755	160-1019	26236PT	230-2189	9388PT	230-2004	
VS378	160-1503	VS760	160-1016	26255PT	230-2157	9397B	230-2000	
VS386	160-1433	VS767	160-1031	26260PT	230-2171	9405PT1	230-2024	
VS415	160-1115	VS774	160-1225	26261	230-2139	9410PT	230-2018	
VS424	160-1116	VS776	160-1171	26265PT	230-2172	9422PT	230-2086	
VS425	160-1287	VS777	160-1226	26276	230-2191L	9429PT	230-2039	
VS425	160-1288	VS778	160-1227	26277PT	230-2191R	9465PT	230-2142	
VS445	160-1119	VS781	160-1429	26278PT	230-2159	9469PT	230-2021	
VS446	160-1118	VS786	160-1038	26284PT	230-2162L	9471PT	230-2025	
VS469	160-1289	VS789	160-1025	26304	230-2179L	9473PT	230-2042	
VS471	160-1120	VS795	160-1018	26305PT	230-2179R	9480PT	230-2063	
VS485	160-1121	VS799	160-1049	26323PT	230-2143	9481PT	230-2130L	
VS510	160-1122	VS803	160-1204	26324	230-2182	9483PT	230-2069	
VS521	160-1125	VS813	160-1055	26325PT	230-2182	9496PT	230-2045	
VS525	160-1186	VS817	160-1424	26366PT	230-2183	9514	230-2126L	
VS534	160-1126	VS820	160-1233	26374PT	230-2148	9515PT	230-2022	
VS547	160-1300	VS821	160-1228	26375PT	230-2196	9517	230-2126R	
VS562	160-1127	VS825	160-1305	26379PT	230-2146	9522PT	230-2175	
VS590	160-1185	VS830	160-1198	26382PT	230-2167	9539PT	230-2131	
VS596	160-1290	VS834	160-1197	26389PT	230-2181	9540PT	230-2130R	
VS612	160-1130	VS839	160-1064	26390PT	230-2184	9571PT	230-2015	
VS615	160-1186	VS848	160-1097	26402PT	230-2145	9572PT	230-2086	
		VS849	160-1096	26409PT	230-2144	9604PT	230-2097	
		VS856	160-1219	26415PT	230-2156	9623PT1	230-2031	
		VS858	160-1190			9627PT	230-2001	

Interchange Listing

FORD (Cont'd)					
2L2E6507AA	01913	7T4Z6571AA	122-1427	BC3Z6505B	02119S
2L2Z6505AA	01914	81SM6500D1H	VL86	BC3Z6507A	13265
2L2Z6505BA	01914	81SM6500D1K	VL86	BC3Z6507B	02118S
2L2Z6507AA	01913	83TM6505AA	01300	BC3Z6513A	160-1616
2L2Z6507BA	01913	83TM6507AA	01285	BC3Z6514A	161-1080
2L2Z6513AA	160-1504	85TM6500AA	VL9	BC3Z6565A	190-1553
2S7Z6513AA	160-1490	86TM6505AD	10386	BC3Z6571A	122-1441
2S7Z6513AC	160-1490	86TM6507FA	10385	BE8Z6505B	13454
30523090	140-9557	89BZ6518A	121-1128	BE8Z6513C	160-1692
310650	00609	8BA6505A	00212	BE8Z6518A	121-1143
310651	00608	8BA6505A2	00212	BE8Z6571A	122-1502
311411	140-1966	8BA6507A	00214	BE8Z6571C	122-1503
385658	184-1034	8BA6507A2	00214	BK2Z6505A	13446S
388480	184-1035	8BA6510	140-1614	BK2Z6505B	13446S
3C3Z12A379AA	240-1034GP	8BA6514	161-1057	BK2Z6507A	13445
3C3Z6500AA	VL114	8BA6571	122-1376	BL3Z6505A	13291S
3C3Z6505AA	02180	8C3Z6505A	13183	BL3Z6507A	13290S
3C3Z6507AA	02179	8C3Z6507A	13182	BL3Z6571A	122-1427
3C3Z6513AA	160-1458	8C3Z6565B	190-1548	BM5Z6505A	13456
3C3Z6514AA	161-1079	8C3Z29N951A	240-1043	BM5Z6505B	13456
3C3Z6518AA	121-1105A	8EQ6550B	161-9002	BM5Z6505C	13456
3C3Z6571AA	122-1378	8N6505A	00220	BM5Z6505D	13456
3C3Z9F538AA	240-1034	8N6505A1	00220	BM5Z6507A	13455
3F1Z6564AA	180-1333	8N6505C	00270	BM5Z6507B	13455
3L3Z6065AA	220-1071	8N6513	160-1433	BM5Z6518A	121-1144
3L3Z6500BA	VL178	8RT6514B	161-1058	BM5Z6571A	122-1501
3L3Z6507BA	02118	90TM6505AB	10388	BR3Z6500A	VL575
3L3Z6510AA	140-3047	90TM6507AB	10387	BR3Z6505A	13295
3L3Z6510BA	140-3047	948M6505L2C	01746	BR3Z6507A	13294
3L3Z6513BA	160-1485	948M6505L2E	01746	BR3Z6513A	160-1617
3L3Z6564BA	180-1330	948M6507L2C	01745	BR3Z6564A	180-1340
3L3Z6571DA	122-1356	978M6507A2A	01745	BR3Z6571B	122-1447
3M4Z6513AA	160-1568	97JM6C501AB	VL176	C0AE6505E	01242
3M4Z6513BA	160-1568	9E5Z6505A	02007	C0AE6505J	00375
3S4Z6505AA	02007	9R3Z6065A	220-1071	C0AE6505N	01242
3S4Z6507AA	02006	9S4Z6505A	02007	C0AE6505U	01242
3S4Z6571AA	122-1410	9S4Z6507A	02006	C0AE6507A1	00376
406512	149-1001	9S4Z6507C	02006	C0AE6507E	00585
4C3E6505DB	02119	A7AZ6507A	01538	C0AE6507J	00373
4C3Z6505A	02119	AA5Z6505A	13345S	C0AE6507N	00585
4C3Z6505AA	02119	AA5Z6507A	13344	C0AZ6505N	01242
4C3Z6505AB	02119	AA5Z6513A	160-1631	C0DE6505A	00564
4F1Z6065AB	220-1094	AC3Z6518A	121-1083	C0DE6505A	00564
4G7Z6564AA	180-1325	AL3Z6505A	13289	C0DE6505J	00376
4Q6512	149-1001	AL3Z6507A	13288	C0ME6507N	00376
4R3Z6513BA	160-1485	AL3Z6513A	160-1611	C0TE6507A	00376
5750692	VL9	AL3Z6571A	122-1445	C0TE6507E	00376
5751318	00531S	AL3Z6571AA	122-1445	C1AE6505E	01242
5751323	00530SN	AL8Z6505A	01788	C1AE6507A	00637
5751326	00530SN	AL8Z6507A	01787	C1DE6507A	00627
5751554	00494	AT4Z6505A	13226	C20E6500A	VL35
5751559	00373	AT4Z6513A	160-1599	C20E6500B2	VL48
5752073	VL21	B4A6507A	00376	C20Z6500A	VL35
5C1Z6571A	122-1494	B506500A	VL9	C20Z6500B	VL35
5C3Z6505A	02119	B5A6506A	SB1875-6	C20Z6500C	VL35
5L1Z6500A	VL180	B6505B2	00100	C20Z6500D	VL35
5L1Z6500AA	VL180	B6A6057A	SB1562-1N	C20Z6A528CHP	183-1020
5L1Z6505A	02265	B6A6500A	VL21	C2AE6505E	00375
5L1Z6505AA	02265	B6A6513A	160-1120	C2AZ6505A	01242
5L1Z6505B	02265	B6AE6507A	00585	C2OZ6A528C	183-1030
5L1Z6505BA	02265	B7T6507A	00494	C30Z6500A	VL48
5R3Z6065AA	220-1023	B8AZ6563D	186-1090	C3AE6500A	VL21
6W7Z6505BA	01925	B8AZ6564C	180-1059	C3AE6505J	00742
70HM6505D2C	01199	B8C6500A	VL21	C3AZ6505A	00375
70HM6505D2E	01199	B8QH6505AA1	00530SN	C3AZ6505J	00742
73TM6507LA	01285	B8QH6507A	SB1744E-1N	C3DE6505B	VL9
74TM6505A2A	01300	B8QH6507AA1	00531S	C3DZ6500A	VL9
74TM6505A2B	01300	B8QH6518A	121-1009	C3DZ6500B	VL9
74TM6505AB	01300	B8S6500A	VL9	C3DZ6513A	160-1131
7HA6518A	121-1003	B8TZ6507T	SB2220E-1	C3OZ6513A	160-1132
7L8Z6507A	01787	B8TZ6505E	00530SN	C3SV6500A	VL9
7T4Z6505A	13226	B9AE6505A	01242	C3SZ6500A	VL9
7T4Z6507B	13225	B9AE6507A	00585	C3TE6505A	00375
7T4Z6513AA	160-1599	B9T6057AB	SB1630E-1+020	C3TE6505E	00530SN
		BC3Z6505A	13266	C3TE6507A	00531S
		BC3Z6505AA	13266		
				C3VE6500A	VL9
				C40E6500A	VL35
				C4AE6500A	VL29
				C4AE6505A	01242
				C4AE6507E	00947
				C4AZ6507A	00947
				C4DE6500A	VL9
				C4DZ6565A	190-1327
				C4TE6500A	VL9
				C4TE6505A	00917SN
				C4TE6507A	00918
				C4TE6507M	00949
				C4TZ6505A	SB1630E-1
				C4TZ6500A	VL9
				C4TZ6500B	VL9
				C4TZ6505A	00917SN
				C4TZ6505J	01332
				C4TZ6505N	00917SN
				C4TZ6505P	00917SN+15
				C4TZ6507A	00918
				C4TZ6507J	00949
				C4TZ6507R	01057S
				C4TZ6513A	160-1006
				C5AE6500A	VL35
				C5AE6500E	VL35
				C5AE6505A	01358
				C5AE6505E	01358
				C5AE6507A	00963
				C5AE6507A2	00963
				C5AZ6507A	00963
				C5AZ6513A	160-1134
				C5NN6507B	01654
				C5TE6505E	01177S
				C5TZ6505A	01177S
				C5TZ6505E	01177S
				C5TZ6507A	01120
				C5TZ6507C	01120+15
				C5TZ6507E	01120
				C5TZ6513A	160-1135
				C6836505J	01000
				C6AE6500A	VL9
				C6AE6500C	VL9
				C6AE6505A	01000
				C6AZ6505J	01000
				C6AZ6507A	01001
				C6AZ6507J	01001
				C6AZ6513A	160-1175
				C6OE6505A	01000
				C6OE6507A	01001
				C6TZ6505A	00917SN
				C7AE6500A	VL35
				C7AZ6505A	01000
				C7AZ6507E	01001
				C7AZ6507J	01001
				C7AZ6513B	160-1151
				C7JE6505M	01242
				C7OE6505J	01000
				C7OE6507J	01001
				C7TE6505E	01332
				C7TE6507A	01057S
				C7TE6507E	00949
				C7TE6507F	00949
				C7TZ6505B	01242
				C8AE6500A	VL9
				C8AZ6500A	VL9
				C8AZ6500B	VL9
				C8SZ65056A	SB2125-4
				C8SZ6507A	SB1750-1
				C8SZ6505A	01102
				C8SZ6507A	01103
				C8SZ6513B	160-1161
				C8SZ6A529A	184-1040
				C8TE6507A	01120
				C8TZ6507A	SB1815E-1
				C8VE6505J	01102
				C8VE6507E	01103

Interchange Listing

FORD (Cont'd)							
C9AE6500A	VL9	D2DZ6505A	01266	D7DZ6505A	01327	E27E6507AA	01528
C9AE6505A	01135	D2DZ6505C	01266	D7JE6505AA	01271	E27Z6571A	122-1132
C9AE6505U	01135	D2DZ6507A	01268	D7JE6507AA	01272	E2AE6505A	01135
C9AE6507A	01137	D2DZ6507E	01268	D7JL6507A	00609	E2AE6505SA	01135
C9AE6507NHD	01120	D2FZ6505A	01199	D7TE6505AA	01358	E2AZ6505B	01135+15
C9AE6507S	00963	D2OE6505EA	01237	D7TE6505EA	01358	E2AZ6505D	01135
C9AE6507U	01137	D2RY6505A	01300	D7TZ6505A	01358	E2DZ6057A	SB1875-50
C9AZ6505A	01135	D2RY6507A	01285	D8AE6500A	VL35	E2DZ6510A	140-8545
C9AZ6507A	01137	D2RY6565A	190-1435	D8AE6505BA	01367	E2DZ6565A	190-1522
C9JE6505U	01217S	D2TE6505AA	01135	D8AZ6513A	160-1041	E2EE6500CA	VL86
C9NN6057J	SB1600E-1	D2TE6507AA	01137	D8AZ6513B	160-1044	E2TE6505DA	01358
C9NN6057L	SB1600E-1+020	D2TZ6505A	01135	D8AZ6564B	180-1233	E2TN6507AB	01694
C9OE6505J	01237	D2TZ6505J	01135	D8AZ6565A	190-1443	E2TZ6505A	01358
C9OE6505U	01237	D2TZ6507A	01137	D8AZ6A527A	184-1035	E2ZE6505GA	01597
C9OE6507AA	01238	D3AZ6A527A	184-1034	D8FZ6564A	180-1037	E2ZZ6505A	01597
C9OE6507J	01238	D3HZ6507A	00918	D8NN6505AA	01695S	E3TZ6057B	SB1669E-1
C9TE6505J	01242	D3NN6505A	01653	D8NN6507AA	01694	E3TZ6500A	VL114
C9TE6507A	01120	D3NN6507A	01654	D8TE6505AJ	01367	E3TZ6505A	01527
C9TE6507J	00918	D3RY6505A	01300	D8TE6505E	01367	E3TZ6505D	01542
C9ZE6500C	VL48	D3VE6505AA	01271	D8TE6505EA	01367	E3TZ6505L	01300
CAZ6500A	VL9	D3VE6507A	01272	D8TE6505SA	00917SN	E3TZ6507A	01528
CC3Z6505A	13266	D3VZ6505A	01271	D8TE6507AA	01380	E3TZ6507D	01543
CC3Z6505B	13266	D3VZ6505C	01271+15	D8TZ6505A	01367	E3TZ6507F	01285
CE2DZ6500A	VL35	D3VZ6507A	01272	D8TZ6505E	01367	E3TZ6510A	140-8013
CJ5Z6513A	160-1684	D3VZ6507C	01272+15	D8TZ6505J	01135	E3TZ6510B	140-7689
CM5Z6505A	13458S	D4ZE6505AD	01597	D8TZ6A527B	184-1022	E3TZ6564A	181-1060
CM5Z6507A	13457	D4ZE6507AD	01598	D94Z6057C	SB1671E-1N	E3TZ6564C	180-1007
COAE6500A	VL9	D4Z6505A	01597	D97Z6510A	140-9557	E3TZ6565A	190-1531
DOAE6500A	VL35	D4ZF6500A	VL83	D97Z6571B	122-1132	E3TZ6571A	122-1330
DOAE6500B	VL48	D4ZF6505A	01597	D9HZ6057A	SB1781E-1N	E3ZE6507A	01328
DOAE6500E	VL35	D4ZF6507A	01598	D9HZ6500A	VL35	E3ZE6507A2A	01328
DOAE6505AA	01169	D4ZF6564A	180-1037	D9HZ6505A	01385SN	E3ZZ6507A	01328
DOAE6505AE	01171	D4NN6056A	SB1900E-2	D9HZ6505D	01383SN	E3ZZ6507C	01328+15
DOAE6507BJ	01172	D4NN6056C	SB1900E-2+020	D9HZ6505G	01381	E43E6505B2A	01597
DOAZ6500A	VL35	D4NN6056E	SB1900E-3	D9HZ6507A	01386S	E43E6507B2A	01598
DOAZ6500B	VL48	D4NN6057A	SB1630E-1N	D9HZ6507D	01382	E43E6564A	180-1029
DOAZ6500C	VL48	D4TE6505AA	01242	D9HZ6507E	01384S	E43Z6505A	01597
DOAZ6505A2	01169	D4TE6505AD	01597	D9HZ6507G	01384S	E43Z6507A	01598
DOAZ6505E	01171	D4TZ6505A	01242	D9HZ6513A	160-1204	E43Z6564A	180-1029
DOAZ6505E2	01171	D4ZE6507A	01598	D9HZ6565A	190-1425	E4AZ6505A	01135
DOAZ6507A2	01172	D4ZZ6505A	01300	D9OE6505AA	01135	E4DZ6057A	SB1630E-1
DOAZ6507E2	01170	D5AE6505JA	01327	D9TE6505AA	01383SN	E4EE6505A2A	01451
DOAZ6507J	00637	D5AZ6507A	SB1687-1	D9TE6505EA	01381	E4EE6507A2C	01452
DOAZ6A529A	184-1039	D5HE6505AA	00530SN	D9TE6505JA	01385SN	E4EZ6505A	01597
DOJE6505E	01177S	D5HE6505AA	01346S	D9TE6507AA	01137	E4FZ6505A	01451
DOJE6505G	01177S+15	D5HE6507AA	00531S	D9TE6507AB	01386S	E4FZ6507A	01452
DOJE6507A	01701	D5JE6505AA	01368S	D9TE6507EA	01382	E4FZ6571A	122-1206
DOOZ6500A	VL35	D5OZ6513A	160-1024	D9TE6507JA	01384S	E4TE6505AA	01135
DOOZ6513B	160-1004	D5TE6505AA	01327	D9TZ6507A	01380	E4TZ6505A	01542
DOOZ6A527A	184-1034	D5TE6505AAA	01177S	D9ZE6505AA	01397	E4TZ6513C	160-1206
DOTE6505A	01358	D5TE6505ACA	01177S+15	D9ZE6507A	01598	E4ZE6505AA	01397
DOTZ6505A	01177S	D5TE6505AEA	00917SN	D9ZE6507AA	01598	E4ZE6507A2A	01598
DOVZ6505A	01102	D5TE6505NA	01332	D9ZZ6505A	01397	E4ZE6507F2A	01328
DOZE6500A	VL48	D5TE6507AA	01328	D9ZZ6507A	01598	E4ZZ6507A	01598
DOZZ6500A	VL48	D5TZ6505A	01327	DC2Z6571A	122-1449	E57E6505AA	01527
D1AE6505AA	01169	D5TZ6505J	01332	DOAE6507BU	01170	E57E6507AA	01528
D1AZ6500A	VL35	D5TZ6505N	01177S	DOAZ6518A	121-1019	E59E6507A2B	01598
D1AZ6513A	160-1162	D5TZ6507A	01328	DOOZ6513B	160-1004	E59E6507A3B	01598
D1FZ6505A	01199	D5TZ6507A2A	01328	EOAZ6507A	01328	E5EE6507C2B	01452
D1TZ6057A	SB1630E-1	D6EE6505AA	01597	E0AZ6513A	160-1071	E5F6500CA	VL86
D1ZX6500BA	VL48	D6EE6507A2A	01598	E0EE6501AA	VL83	E5FZ6500A	VL86
D1ZZ6500B	VL48	D6EE6507AA	01598	E0HE6505AA	00530SN	E5FZ6507A	01452
D27Z6505A	10060S	D6EE6C501A1A	VL83	E0HZ6505A	00530SN	E5HN6505AA	01758
D27Z6507A	10061	D6FZ6500A	VL83	E0JY6507A	10157	E5HN6507AA	01757
D2AE6505AA	01237	D6FZ6505A	01597	E1AE6505EA	01266	E5JE6505AA	01504S
D2AE6507AA	01238	D6FZ6507A	01598	E1AZ6505A	01266	E5JE6507A	01120
D2AZ6505A	01237	D6NN6505A	01695S	E1EE6505AA	01451	E5TE6505BA	01504
D2AZ6505D	01135	D6NN6507A	01654	E1EE6507A2A	01452	E5TE6507B2A	01505
D2AZ6507A	01238	D6NN6513A	160-1212	E1EE6507AA	01452	E5TZ6505A	01504
D2DE6505AA	01266	D6OZ6571A	122-1035	E1FZ6057A	SB1750-60	E5TZ6505F	01527
D2DE6507AA	01268	D7AZ6505E	01271	E1FZ6057C	SB1562-54	E5TZ6507A	01505
D2DE6507EA	01268	D7AZ6507E	01272	E1FZ6500A	VL86	E5TZ6507F	01528
D2DZ65053	01266	D7AZ6507F	01272+15	E1FZ6505A	01451	E5TZ6513B	160-1203
		D7AZ6A528A	183-1022	E1FZ6507A	01452	E5ZE6505AA	01397
		D7BE6507AA	01357	E1FZ6518A	121-1083	E5ZE6507A2A	01598
		D7BZ6507A2A	01357	E27E6505AA	01527	E5ZZ6505A	01397

Interchange Listing

FORD (Cont'd)							
E5ZZ6507A	01598	E8ZE6505A2A	01597	F1AZ6505A	01698	F3ZZ6065D	220-1033
E5ZZ6507D	01598	E8ZZ6507A	01598	F1AZ6507A	01699	F3ZZ6505A	01877
E5ZZ6507G	01328	E9Z26505A	10163	F1AZ6510A	140-8274	F3ZZ6507A	01701
E6AE6505A2C	01535	E9Z26505B	10164	F1AZ6513A	160-1408	F3ZZ6571C	122-1067
E6AE6507A2E	01536	E9Z26507A	10162	F1AZ6518A	121-1084	F4AE6A517AA	122-1449
E6AZ6505A	01537	E9Z26510A	140-8142	F1AZ6C501A	VL107	F4AZ6571A	122-1449
E6AZ6507A	01538	E9Z26C501A	VL146	F1AZ6C501B	VL107	F4BZ6505A	10153
E6DZ6505A	01535	E9Z26C501B	VL146	F1CZ6571A	122-1206	F4BZ6507A	10118
E6DZ6507A	01536	E9AE6505AA	01537	F1DZ6500A	VL35	F4BZ6C501B	VL146
E6DZ6564A	180-1315	E9AE6505BA	01537	F1HE6505A	01383SN	F4DZ6057A	SB1875-50
E6DZ6571A	122-1066	E9AE6507AA	01538	F1HE6505AB	01832SN	F4DZ6507A	01536
E6FZ6513B	160-1080	E9AZ6507A	01328	F1HZ6057A	122-1237	F4SE6571A	122-1215
E6HZ6507A	01694	E9DZ6510A	140-8559	F1HZ6057E	122-1237	F4SE6571B	122-1215
E6SE6505A2A	01537	E9FZ6500A	VL113	F1HZ6505A	01832SN	F4SE6A517AA	122-1215
E6SE6505DA	01537	E9JY6505A	10159	F1HZ6571B	122-1237	F4SE6A517BA	122-1215
E6SE6507A2A	01538	E9JY6507A	10157	F1JE6505AA	01504S	F4SZ6510A	140-8545
E6TZ6500A	VL9	E9JY6510A	140-8186	F1JE6505DA	01877	F4SZ6571A	122-1215
E6TZ6505A	10386	E9JY6510B	140-8187	F1JE6507AA	01120	F4SZ6571B	122-1215
E6TZ6507A	01328	E9NN6513BA	160-1211	F1JE6507EA	01701	F4TZ6505A	01786
E6TZ6507D	10385	E9RY6518A	121-1083	F1JE6507EZ	01701	F4TZ6505B	01504S
E6TZ6564A	180-1007	E9SE6A517AA	122-1216	F1T36507BA	01505	F4TZ6505C	01786
E6TZ6571A	122-1067	E9SZ6564A	180-1012	F1TE6505BA	01504	F4TZ6507A	01785
E6TZ6571E	122-1325	E9SZ6571B	122-1216	F1TE6507BA	01505	F4TZ6507B	01785
E79E6507A2A	01598	E9TE6505AA	01135	F1TE6507HA	01548	F4TZ6513A	160-1054
E7AZ6507A	01538	E9TE6507AA	01328	F2AE6C501AB	VL107	F4TZ6518A	121-1011
E7DZ6513A	160-1072	E9TE6507AB	01328	F2CZ6500A	VL113	F4TZ6565A	190-1538
E7EE6505B2A	01545	E9TZ6505A	01135	F2DZ6565A	190-1524	F4TZ6565C	190-1536
E7EE6505B2D	01545	E9TZ6507A	01328	F2GZ6513A	160-1685	F4TZ6571A	122-1333
E7EE6505E2A	01451	E9TZ6513A	160-1201	F2LE6505AF	01708	F4TZ9F538A	240-1026
E7EE6507B2A	01546	E9ZE6505B	01135	F2LE6507AE	01709	F4XY6571A	122-1263
E7FZ6505A	SB1625-62	E9ZE6505BA	01135	F2SE6500AA	VL100	F53E6505AB	01729
E7FZ6505B	SB1437-65	E9ZE6507A2A	01598	F2SZ6500A	VL100	F53E6507AA	01728
E7FZ6505C	SB1562-54	E9ZE6507BA	01328	F2TZ6507A	01548	F53E6A517AA	122-1229
E7FZ6505D	VL113	EAA6500D	VL21	F2TZ6571A	122-1075	F57E6505BB	01744
E7FZ6505E	01545	EAA6513A	160-1120	F2Y110280A	140-8142	F57E6507BB	01743
E7FZ6505F	01545	EAD6500	VL9	F2Y1230910	140-8142	F57E6A517AA	122-1226
E7FZ6505G	01545	EAF6505D	00348	F32Z6505B	10563	F57Z6505A	01744
E7FZ6505H	01545	EAF6505D2	00348	F32Z6507B	10562	F57Z6505BB	01744
E7FZ6505I	01545	EAF6510C	140-1726	F32Z6507C	10562	F57Z6507A	01743
E7FZ6505J	01545	EAM6518A	121-1065	F32Z6510A	140-8561	F57Z6507BB	01743
E7FZ6505K	01546	EBJ6500A	VL9	F32Z6571A	122-1246	F57Z6510A	140-8274
E7FZ6505L	01546	EBP6505A	00375	F32Z6571B	122-1285	F57Z6513A	160-1383
E7FZ6505M	01546	EBP6507E	00373	F32Z6C501A	VL149	F57Z6571A	122-1226
E7FZ6505N	01546	EBP6507N	00373	F33E6505A2A	01597	F5AE6507AA	01699
E7FZ6505O	01546	EBU6507A	00376	F33E6507A2A	01598	F5AZ6065A	220-1023
E7GZ6513A	160-1213	ECK6505A	00375	F37E6505A2A	01597	F5AZ6507A	01699
E7GZ6571A	122-1149	ECR6507F	00494	F3CZ6505A	SB1625-62	F5AZ6510A	140-8274
E7HZ6505E	SB1733E-2N	ECU6500A	VL9	F3CZ6507B	SB1437-65	F5DE6505AC	01788
E7HZ6505A	01758	EDB6507A	00494	F3CZ6500A	VL113	F5DE6507AC	01787
E7HZ6507A	01757	EDC6505E	01242	F3CZ6505A	10235	F5LY6571A	122-1419
E7HZ6510A	140-8409	EDC6507F	00585	F3DE6507AA	01536	F5RZ6505A	01746
E7RY6505A	10386	EDG6500A	VL9	F3LY6057A	SB1500-79	F5RZ6505D	01729
E7SE6507A2A	01538	EL3Z6513A	160-1411	F3LY6057B	SB1250-61	F5RZ6507A	01745
E7TE6505AB	01547	EOAZ6564B	180-1234	F3LY6505A	01708	F5RZ6507D	01728
E7TE6507A2A	01505	ESFZ6500B	VL86	F3LY6507A	01709	F5RZ6510A	140-8560
E7TE6507BA	01548S	ET4Z6513A	160-1599	F3LY6513A	160-1269	F5RZ6513A	160-1580
E7TN6505AA	01695S	F0CZ6505A	10235	F3TE6507JA	01723	F5RZ6518A	121-1101
E7TZ6505A	SB1781E-1N	F0CZ6507A	10234	F3TE6507KA	01701	F5RZ6518B	121-1082
E7TZ6505D	01547	F0CZ6510A	140-8173	F3TZ6505A	01877	F5RZ6571B	122-1229
E7TZ6505G	01504	F0HZ6507A	01757	F3TZ6505B	01754	F5TZ6510A	140-8476
E7TZ6507A	01505	F0JY6505A	10159	F3TZ6507A	01701	F5UE6507AA	01792
E7TZ6507D	01548S	F0JY6507A	10157	F3TZ6507B	01701	F5UZ6507A	01792
E7TZ6507G	01505	F0SE6564A	180-1012	F3TZ6507D	01723	F65E6505AA	01791
E7TZ6564A	181-1060	F0SZ6564A	181-1018	F3TZ6507E	01723	F65E6507AA	01789
E7TZ6564B	181-1060	F0TZ65056A	SB1875-9	F3XY6057B	SB1500-53	F65E6C501AA	VL107
E7ZE6A517AA	122-1200	F0TZ6505A	10388	F3XY6505A	10282	F65Z6507AA	01789
E7ZE6A517BA	122-1199	F0TZ6507A	10387	F3XY6507A	10281	F67E6505AA	01877
E7ZZ6571A	122-1200	F0TZ6565A	190-0471	F3XY6510A	140-8388	F67J6C501AA	VL107
E7ZZ6571B	122-1199	F0VY6505A	01537	F3XY6510B	140-8388	F67Z6500AA	VL83
E83E6507A2A	01598	F12Z6510A	140-8142	F3XY6513A	160-1216	F6AE6505AB	01698S
E83Z6505A	01597	F1AE6505CC	01698	F3XY6518B	121-1059	F6AE6507AB	01699S
E83Z6507A	01598	F1AE6507BE	01699	F3XY6564A	180-1264	F6AZ6065BA	220-1071
E8AZ6571A	122-1047	F1AE6518BA	121-1084	F3ZE6505BA	01877	F6AZ6513AA	160-1269
E8BZ6505A	10153	F1AE6C501BB	VL107	F3ZE6507BA	01701	F6AZ6571A	122-1449
E8BZ6507A	10118	F1AZ6057A	SB1875-56	F3ZZ6065B	220-1033	F6AZ6571AA	122-1449
E8TZ6505B	01542	F1AZ6057B	SB1375-61	F3ZZ6065C	220-1033	F6CE6505BA	01936
E8TZ6505C	01542						

Interchange Listing

FORD (Cont'd)							
F6CE6507CB	02044	YF1Z6513CA	160-1437	10198813	192-1513	12550457	02000
F6CE6507EA	02044	YF1Z6513FA	160-1490	10198816	01736	12550458	01935
F6DZ6049EC	140-9204	YF1Z6564CA	180-1315	10198817	01737	12550909	01807
F6DZ6505A	01788	YF1Z6571CA	122-1357	10198818	122-1236	12552289	01807S
F6DZ6507A	01787	YF1Z6571DA	122-1358	10198819	122-1236	12553349	02053
F6DZ6565AA	190-1541	YL2Z6564AA	180-1341	10212810	122-1260	12553350	02054
F6DZ6571DA	122-1065	YS4Z6505AA	01936	10212811	160-1266	12553354	122-1349
F6DZ6C501A	VL107	YS4Z6571CA	122-1342	10213465	160-1507	12553696	160-1488
F6JL6505AA	01504S			10214034	122-1043	12555564	160-1366
F6JL6507 AA	01875	GM		10214664	180-1337	12555580	180-1317
F6LE6513AB	160-1425	10004728	01814	10220606	01806	12555601	122-1345
F6LZ6513AB	160-1425	10008244	183-1014	10227494	01931	12555905	01934
F6TE6529AA	180-1284	10013010	181-1020	10227762	192-1511	12555906	02000
F6XZ6505AA	10282S	10024039	01814	10227763	192-1512	12556295	192-1510
F6XZ6507AA	10281	10034162	01814	10231940	192-1508	12556296	192-1509
F6ZE6507AA	01790	10040226	01551	10231941	192-1507	12556298	180-1328
F6ZZ6505A	01791	10040232	160-1099	10238852	190-1537	12556317	02101
F6ZZ6507A	01790	10042875	122-1077	10240894	01107	12556320	160-1446
F6ZZ6510A	140-8574	10042877	122-1077	10240896	01261S	12556458	01706
F6ZZ6510B	140-8575	10044512	01592	10240898	160-1410	12557928	140-3024
F75E6505AB	01698S	10044515	01591	10240899	161-1053	12558295	01935S
F77Z6500AB	VL176	10044620	160-1083	10241740	192-1485	12558674	122-1260
F77Z6505AA	10388	10045251	01294S	10241743	01931	12558849	02126S
F77Z6507AA	10387	10045252	01393	10244974	01806	12563062	01934
F77Z6510AE	140-8663	10069213	01261S	1111560B11001	140-8324	12563063	02000
F77Z6513AA	160-1504	10070124	02058	1111586500001	140-8144	12563064	01935
F77Z6564AB	180-1341	10070125	122-1069	1112215030	140-8147	12564012	VL115
F77Z6571AB	122-1067	10088106	01192	11519111	220-1084	12564338	02267
F77Z6571AB	122-1330	10089648	180-1228	11519112	220-1084	12564494	01934
F77Z6571AB	122-1348	10089648	180-1283	11519113	220-1084	12564494AA	01934
F7CZ6505AA	01936	10089648	181-1061	1164906	140-1880	12564852	122-1260
F7CZ6507CB	02044	10093027	01195	1165557	140-1733	12565197	02053
F7CZ6513AA	160-1398	10101149	01107	1231079	01189	12565198	13243
F7ZZ6565AA	190-1511	10106027	01116	1232184	01188	12565199	160-1634
F87E6505BA	01914	10106423	192-1505	12338014	122-1069	12565763	160-1431
F87E6505DA	01914	10106425	192-1506	12338631	SB1375-2	12565836	122-1418
F87E6507BA	01913	10112680	180-1229	12338632	SB1625-5	12568411	02172
F87E6507CA	01913	10114115	00996S	12339069	SB1750-2	12568412	02173
F87Z6505BA	01914	10114116	01235S	12339070	SB1500-1	12569167	180-1336
F87Z6507BA	01913	10114117	01087	12350995	SB2125-38	12569427	13239
F8AZ6564AA	180-1284	10114118	01107	12350996	SB1937-17	12569550	13013
F8CZ6505AA	01746	10114119	122-1287	12350997	SB1812-4N	12569583	01929
F8RZ6507BA	01745	10114123	184-1045	12350998	SB1812-9N	12571595	VL558
FODE6500AA	VL35	10124698	160-1083	12350999	SB1812-5N	12571596	VL558FG
FOTZ6500A	VL150	10127492	01703	12353360	01814	12571608	VL558RG
FOTZ6513A	160-1264	10127493	01702	12353386	01550+15	12572638	VL175
FOTZ6564A	180-1008	10130992	121-1090	12353387	01551	12574354	122-1349
FOTZ6571A	122-1326	10131082	122-1198	12353388	01551+15	12575197	121-1127
FR3Z6505A	13449	10137454	01482S	12353397	01591	12575351	13081
FR3Z6507A	13294	10147882	122-1238	12353398	01591+15	12575352	13211
FT4Z6505B	13429	10147882	122-1238	12353399	01592	12575354	13082
FT4Z6507A	13428	10149663	01780S	12353400	01592+15	12575355	160-1588
FT4Z6513A	160-1666	1015098	140-3020	12353401	01710	12575356	13230
FT4Z6518A	121-1140	10156070	01705	12353403	01711	12575793	01997
FT4Z6564A	180-1342	10156071	01704	12354124	160-1085	12576400	VL115
FT4Z6564C	180-1342	10162148	160-1365	12356509	SB1562-42	12576628	180-1329
FT4Z6571A	122-1493	10162178	01702	12362632	01195+15	12577692	190-1546
GR3Z6564BA	180-1340	10166341	01810	12363753	01763R	12577693	190-1547
PB8M6500A	VL9	10166342	01811	12363754	01770R	12577695	180-1331
XF2Z6571BA	122-1351	10166343	160-1363	12363756	01769R	12577696	13043
XL3E6505AC	01925	10166345	121-1085	1237653	01188	12577697	13044
XL3E6507AC	01924	10166354	190-1534	1237667	01189	12578258	13243
XL3Z6505AA	01925	10166355	190-1535	1241850	180-1040	12579949	01735
XL3Z6505BA	01925S	10166368	122-1314	1241851	180-1041	12581777	122-1201
XL3Z6507AA	01924	10166867	00996S	12457652	122-1323	12581778	122-1202
XL3Z6507BA	01924S	10168465	01195	1246741	01321	12582197	10778
XL3Z6513AA	160-1411	10168495	01195	1247718	01320	12582198	10779
XS4Z6513AA	160-1398	10168509	01195	12480244	160-1267	12582719	13042
XW4Z6505AA	02193	10168514	01809	12482062	122-1338	12586484	160-1623
XW4Z6507AA	02192	10168525	220-1018	12482063	122-1337	12589774	160-1488
XW4Z6510AA	140-3028	10168526	220-1018	12510801	181-1063	12590223	02053
XW4Z6518BA	121-1103	10168527	220-1018	12523971	180-1318	12590771	13040
YF1Z6505BA	02047	10168594	01807	12529742	140-9946	12592506	160-1579
YF1Z6507BA	02046	10183724	122-1287	12533586	122-1323	12595365	VL559G
		10198809	160-1267	12537174	160-1267	12596034	02010
		10198812	140-8535	1254371	187-1014	12596078	160-1480

Interchange Listing

GM (Cont'd)						
	14007743	01192	17089852	VL115	23503994	190-1500
	14024249	01395	17102014	VL138	2367485	140-1758
	14024254	01394	17102660	VL73	24100005	VL175
12596995	122-1394	01192	17105697	VL120	24100293	122-1349
12599650	180-1317	01192	17105951	VL116	24100294	180-1323
12600774	160-1607	01195	17106263	VL120	24405819	122-1458
12601762	13046	160-1233	17109057	VL115	24419109	VL571
12601763	13179	01393	17120060	VL163	24454518	02010S
12607017	121-1060	01193	17120061	VL163	24500317	122-1217
12607211	13243	01393	17120070	VL138	24501290	01711
12610719	13241S	01195	17120090	VL115	24501291	01710
12610931	13333	01195	17120735	VL115	24501395	122-1218
12612427	13440	01195	17120991	VL116	24501395	122-1233
1261378	01388	01192	17121905	VL115	24501667	01710
1261380	01387	01481	17122490	VL559	24501717	01711
1261380	01389	01480	18120004	SB1812-4	24502254	01858
1261424	01387	01192	19207664	122-1418	24502256	160-1267
12615936	02010	01484	19257145	160-1267	24502394	01710
12616671	160-1588	01482S	19316203	13398	24502712	122-1259
12617048	01811	01193	19316205	160-1658	24502713	122-1258
12617533	13040	01192	19316207	122-1162	24503314	140-8593
12619820	VL558	161-1012	19317154	160-1659	24503417	160-1365
12619824	13433	01261S	19317431	121-1064	24503856	121-1003
12619825	13432	192-1339	19333180	180-1329	24503888	121-1021
12619827	160-1688	192-1338	21000103	121-1090	24504195	01735
12619828	190-1555	01195	21000424	140-8293	24504246	01703
12620501	13211	160-1086	21000637	10521	24504249	01703
12621548	13212	01578S	21000638	10520	24504406	190-1533
12622329	01997	161-1013	21000639	SB1125-53	24504710	140-8593
12623722	13179	01087	21000640	SB1375-60	24504953	01702
12624396	122-1438	01646S	21000982	140-8292	24505722	01929
12625033	160-1623	160-1076	21000983	SB1437-69	24507422	01858
12627156	13442	01569	21000984	SB1687-58	24507423	01735
12627970	13240	01235S	21000985	10523	24507690	122-1340
12627971	13244	01192	21000986	10522	24507691	122-1341
12631974	13335	192-1484	21006284	140-8293	24508009	122-1336
12631975	13334	01578S	21006357	VL123	24572068	122-1276
12632143	VL558	02057	21006379	SB1125-53	24573076	01726
12633926	122-1510	02058	21006406	10520	24574092	160-1338
12633927	160-1701	122-1069	21006515	122-1230	24574524	140-8536
12636187	13470	192-1331	21006516	122-1230	24574697	01941
12636188	13469	01192	21006828	140-8293	24574723	01937
12636193	121-1048	01164	21006829	140-8292	24574860	160-1436
12636393	161-1082	01600	21007037	10521	24575384	01903
12638805	02175	01164	21007038	10520	24575387	01902
12639516	VL558	01600	21007039	10522	24575409	190-1539
12645472	122-1338	192-1482	21007040	10523	24575582	122-1324
12645473	122-1337	192-1481	21007154	10521	24575886	220-1088
12645725	VL558	01261S	21007184	160-1360	24576677	220-1088
12646375	13333	01195	21007426	140-8021	24576974	01998
12647867	13467	140-1411	21007455	01949	24576975	01999
12647868	13468	140-1745	21007455AC	01949	24577277	160-1480
12647873	160-1700	160-1121	21007456AC	01950	2465337	00938-115
12648846	VL115	01083	21007462	140-8292	25178085	VL120
12653350	122-1495	01084	21007685	122-1331	25184804	02248S
12661717	122-1418	190-1385	22503324	01450	25341990	VL559
12662527	13441	01293	22510373	160-1049	25342148	VL114
12668832	122-1509	01292	22514420	SB1750-65	25362189	VL163
12669995	180-1336	01293	22521789	01450	25510025	190-1478
12677931	160-1688	190-1433	22525390	01450	25511044	190-1489
12678745	13433	SB1625-1	22530611	01450	25512098	01388
12680871	VL558	140-5606	22531218	160-1112	25518390	122-1037
12681275	180-1337	190-1427	22531220	121-1072	25518390	122-1270
12786696	13331	140-8666	22533631	190-1438	25521841	01389
12791961	13332SN	140-8668	22537965	01673	25523697	01389
13024	01600	01707	22537971	01674	25530143	122-1217
1352424	160-1130	01706	22542308	01726	25532065	01711
1362589	140-1733	121-1081	22542314	01727	25532066	01710
1370108	00976	122-1288	22542700	01673	25532501	192-1491
1370109	00975	160-1103	22548421	160-1112	25532727	190-1532
1377868	140-1937	122-1203	230171	01002	329275	01192
1381656	01188	VL73	2334647	140-1758	33002522	122-1053
1381657	01082	VL37	23500061	01483S	33002729	122-1052
1381658	01188	VL49	23500074	180-1292	336733	01294S
1385075	01105	VL94	23500283	01780S	336770	00997
14002446	181-1016	VL116	23502552	122-1332	336771	01241SN
14007370	01393					

Interchange Listing

GM (Cont'd)						
	3937750	00919	5231355	VL49	546104	181-1020
	3941010	00399	5231360	VL49	550377	01322
	3942551	00919	5231430	VL73	550383	01323
340226	01294S	00988	5231465	VL73	55192156	13293
3522423	01739	01131	5231475	VL37	553396	01263
3522487	160-1366	00399	5231585	VL63	553402	01457
360506	122-1052	121-1003	5231615	VL49	553408	01324
361957	01241SN	121-1007	5231740	VL5	553471	140-1878
361958	01241SN	00919	5232100	VL73	554167	01323
364737	01241SN	183-1032	5232110	VL73	554173	01322
364746	01195	00696	5232215	VL63	555456	01354
364799	122-1053	00696	5232265	VL49	55557862	13340
3688758	140-1453	01164	5232280	VL37	55558728	13341S
3688759	140-1476	01206S	5232320	VL49	55563529	13293
3688761	140-1527	01235S	5232375	VL49	55565339	13368S
369399	01393	00996S	5232385	VL49	55567950	160-1632
3695455	00308	01195	5232439	VL63	55568831	13367
3703571	00400	01193	5232445	VL73	55568832	13369
3703920	00399	01192	5232450	VL37	55569449	13342
3708168	140-1732	01195	5232510	VL73	55569450	13343
3724778	00400	01194	5232537	01083	55577562	160-1646
3730859	00400	01206S	5232550	VL63	569968	140-1821
3730860	00399	01193	5232565	VL73	5723551	181-1012
3731212	00400	01206S	5232570	VL49	5942273	VL123
3732893	183-1024	01192	5232575	VL49	601806	140-1453
3735208	00399	183-1024	5232660	VL37	602978	140-1476
3735381	160-1125	01193	5232670	VL37	605231	140-1527
3744340	183-1032	01195	5232675	VL49	6263732	01261S
3744341	184-1038	01195	5232695	VL63	6263754	01107
3754754	00400	00969	5232700	VL37	6263778	01206S
3758810	00308	00974	5232720	VL37	641331	02040S
3760237	01206S	00970	5232750	VL49	8132248	VL73
3765095	00696	01002	5232755	VL49	8350066	VL94
3769558	00308	01457	5232762	183-1026	838752	140-1476
3774052	00399	00970	5232765	VL73	88891774	122-1340
3774594	00399	00974	5232780	VL49	88891775	122-1341
3774685	00399	01212	5232780	VL73	88891778	122-1276
3774695	00399	01210	5232810	VL49	88969569	02177
3779410	VL73	01457	5232895	VL49	88969570	02178S
3779486	00400	01263	5232900	VL49	88969573	122-1347
3799576	00696	01457	5232916	01292	88969574	122-1347
3799644	VL37	01002	5233282	01292	88972332	160-1444
3815082	00308	01324	5233315	VL109	8941767081	140-8189
3819002	00399	122-1047	5233335	VL73	8943626461	140-8255
3835332	122-1043	122-1045	5233410	VL73	8944245061	140-8291
3835333	122-1043	184-1038	5233465	VL114	90106142	180-1028
3835639	00400	01195	5233515	VL73	90108699	140-8039
3835910	00308	01241SN	5233645	VL114	90118914	160-1064
3836006	184-1020	01241SN	5233745	VL115	90220111	10116
3836026	00400	183-1015	5234000	VL114	90220112	10116
3836542	00400	01394	5234150	VL94	90220119	10213
3836652	00400	01395	5234200	VL73	90220121	13168
3839387	00400	184-1025	5234212	VL94	90220125	10117
3849814	00988	184-1032	5234235	VL73	90220125	10117
3849818	00919	160-1009	5234295	VL114	90323756	13169S
3859905	140-7208	01093	5234315	VL73	90323757	10116
3859914	00996S	01160	5234330	VL73	90354648	121-1098
3859915	01087	01247	5234360	VL73	90410741	122-1329
3860004	01107	01296	5234464	VL114	90410816	02040S
3864808	01164	01215	5234470	VL114	90412277	10784
3866612	122-1045	01161	5234485	VL73	90502079	140-3010
3869997	VL37	01216	5234530	VL114	90502080	140-3011
3870360	00400	01160	5234625	VL114	90529533	121-1131
388380	00969	01247	5234670	VL115	90537032	160-1508
388385	00970	01160	5234680	VL114	90537239	02010S
3887125	160-1141	01215	5234695	VL5	90537240	01997
3887127	00997	01245	5234755	VL114	90537241	122-1355
389451	01457	01247	5234890	VL115	90537248	140-3029
389457	00974	01296	5234935	VL73	90570967	VL571
3899622	183-1026	01310	5235455	VL120	90572642	140-3010
3904295	184-1020	181-1020	5235498	VL115	90572643	140-3011
3906695	01106	160-1119	52362958	02058	91171154	140-8144
3911068	160-1144	10117	526102	01161	91171765	10302
3921912	184-1020	10116	527602	01361	91174039	122-1142
393063	01002	10116	527610	01362	91174435	122-1246
3931005	01107	10117	538134HP	183-1021	91174438	121-1099
3931006	01106	VL63	538343	184-1038	91175073	10787S

Interchange Listing

HONDA (Cont'd)		2221226000 10813	HSFO42 230-2124	HSMT26 230-2005
8970378020 SB1812-51	2221226050 10813	2221232600 10144	HSFO46L 230-2052L	HSMT30 230-2006
8971102560 10221S	2221232604 10144	2221233000 10128A	HSFO46R 230-2052R	HSMT30A 230-2007
8971319610 10739	2221235004 10625	2221235500 10811	HSFO49 230-2017	HSMZ16A 230-2048
8971319620 10740	2221237200 10809	222123C800 13287	HSFO60D 230-2148	HSMZ18A 230-2011
8971363280 160-1372	2222302500 121-1060	2222321004 121-1031	HSFO60D20 230-2196	HSMZ20 230-2050
HYSTER		2222322001 121-1102	HSFO64 230-2178	HSMZ20A 230-2086
1354047 192-1330	2222322600 121-1039	222232G600 122-1366	HSFO68L 230-2179L	HSMZ22 230-2089
1377110 121-1003	2222423500 122-1440	2222425000 122-1440	HSFO68R 230-2179R	HSMZ22A 230-2086
145172 160-1125	222242G000 122-1440	222243C000 122-1114	HSFO73AD 230-2141	HSMZ22A 230-2086
145173 122-1043	2222438000 122-1114	222243C100 122-1444	HSFO73D 230-2140	HSMZ23A 230-2144
1584195 13168	222243CAAO 122-1444	222243CABO 122-1444	HSGM14 230-2169	HSMZ26 230-2053
1584196 13169S	2223123001 VL564	2223137100 VL568	HSGM16A 230-2146	HSNS16 230-2058
1584197 SB1812-54	2223126011 VL568	2223137110 VL568	HSGM16B 230-2161	HSNS16B 230-2056
1584199 122-1073	2223137100 VL568	2461032824 VL141	HSGM20 230-2020	HSNS18 230-2157
1584200 160-1576	2223137110 VL568	2461033020 VL135	HSGM20A 230-2021	HSNS24 230-2060
1584508 VL109	2461033040 VL135	2461033050 VL135	HSGM22 230-2115	HSNS24A 230-2059
1584511 SB1500-62	INNOVATIVE MACHINE		HSGM22A 230-2135	HSNS24B 230-2067
1702642 13169S	HSBM16 230-2167	HSBM16B 230-2168	HSGM23 230-2022	HSNS24B1 230-2153
244909 01193	HSBM25 230-2000	HSCH20 230-2002	HSGM24 230-2073	HSNS24C 230-2068
381250 01294S	HSCH20A 230-2083	HSCH22 230-2003	HSGM24B 230-2180	HSNS25 230-2139
HYUNDAI		HSCH24 230-2095	HSGM25A 230-2024	HSNS30 230-2015
2211222900 SB1125-53	HSCH24A 230-2120	HSCH24B 230-2160	HSGM28 230-2025	HSNSK25 230-2193
2211232961 SB1875-51	HSCH25 230-2105	HSCH27L 230-2126L	HSGM29 230-2181	HSST19 230-2116
2211233901 SB1437-68	HSCH27R 230-2126R	HSCH33L 230-2008L	HSGM30OPEL 230-2173	HSST19A 230-2117
2211321900 SB1312-53	HSCH33R 230-2008R	HSCH35A 230-2165	HSGM34A 230-2132	HSSU25 230-2156
2211322900 SB1375-63	HSCH35R 230-2072R	HSCH35L 230-2072L	HSGM35A 230-2182	HSSU25A 230-2194
2211322950 SB1375-63	HSCH36L 230-2200L	HSCH36R 230-2200R	HSGM35B 230-2183	HSSZ10 230-2030
2211332961 SB1625-56	HSCH37 230-2133	HSCH38L 230-2118L	HSGM37 230-2184	HSSZ13 230-2031
2211333901 SB1312-64	HSCH38R 230-2118R	HSCH39 230-2110	HSGM42 230-2185	HSSZ16 230-2032
2211333903 SB1312-64	HSCH47 230-2125	HSCH47 230-2125	HSGM53 230-2186	HSSZ18 230-2159
2211335901 SB1562-69	HSCH57L 230-2162L	HSCH57R 230-2162R	HSGM57 230-2028	HST027 230-2203
2211411050 140-7576	HSCH59D 230-2174	HSCH59DA 230-2175	HSGM57B 230-2129	HST034L 230-2127L
2211422900 140-8572	HSCH67 230-2176	HSCH67 230-2176	HSGM57C 230-2128	HST035L 230-2205L
2211422905 140-8572	HSF035L 230-2207L	HSF035R 230-2207R	HSGM60 230-2187	HST035R 230-2205R
2211423000 140-8573	HSF019 230-2009	HSFO19 230-2009	HSGM65D 230-2104	HST057L 230-2204L
2211423901 140-8573	HSFO20 230-2082	HSFO20A 230-2131	HSGM66D 230-2145	HST057R 230-2204R
2211433010 140-8193	HSFO30AL 230-2130L	HSFO30AR 230-2130R	HSGM74 230-2029	HSTO15 230-2069
2211433901 140-8193	HSFO30B 230-2177	HSFO30B 230-2177	HSGM81 230-2164	HSTO15A 230-2107
221143C100 140-3152	HSFO38A 230-2016	HSFO38C 230-2155	HSHN05 230-2201	HSTO16 230-2018
2211511050 140-7577	HSFO38C 230-2155	HSFO40BL 230-2137L	HSHN05-1 230-2202	HSTO16A 230-2033
2211521900 140-7589	HSFO40BR 230-2137R	HSFO40L 230-2114L	HSHNJ08 230-2199	HSTO16C 230-2097
2211522900 140-8573	HSFO40R 230-2114R	HSFO40R 230-2114R	HSHNJ15A 230-2037	HSTO18 230-2100
2211522905 140-8573	HSIS22 230-2151	HSIS23 230-2045	HSHO16 230-2123	HSTO18B 230-2147
2211523901 140-8567	HSIS23 230-2045	HSIS26 230-2041	HSHO16A 230-2188	HSTO20 230-2063
2211533010 140-8194	HSIS32 230-2094	HSIS32 230-2094	HSHO17 230-2189	HSTO22 230-2065
2211533901 140-8194	HSIS48D 230-2152	HSIS48D2 230-2166	HSHO18 230-2038	HSTO22B 230-2150
2211537100 140-8572	HSIS52 230-2198	HSIS82D 230-2197	HSHO20 230-2039	HSTO24 230-2066
2221122003 10547	HSJP25 230-2192	HSJP25 230-2192	HSHO22 230-2122	HSTO24B 230-2142
2221123000 10723	HSKA20 230-2154	HSKA20 230-2154	HSHO23A 230-2163	HSTO24C 230-2143
2221123600 10816	HSMT18A 230-2085	HSMT18B 230-2081	HSHO30 230-2170	HSTO30 230-2042
2221125002 13255	HSMT18B 230-2081	HSMT20B 230-2001	HSHO35 230-2171	HSTO30AL 230-2026L
2221126000 10812	HSMT24 230-2004	HSMT24 230-2004	HSHO35A 230-2172	HSTO30AR 230-2026R
2221126600 13047	HSMT24A 230-2080	HSMT24B 230-2149	HSHY16A 230-2190	HSTO34R 230-2127R
222112G000 13255	HSMT24B 230-2149	HSMT24D 230-2158	HSHY20 230-2136	HSTO47L 230-2195L
2221132600 10143	HSMT24D 230-2158	HSMT24D 230-2158	HSHY24A 230-2206	HSTO47R 230-2195R
2221132604 10143	HSVO23 230-2049	HSVO23 230-2049	HSHY27L 230-2191L	HSVK18 230-2047
2221133000 10126A	IRONTITE		HSHY27R 230-2191R	HSVK18A 230-2138
2221135004 10624	419619241 240-1011	419619242 240-1011R	HSIS22 230-2151	HSVO23 230-2049
2221135510 10810	419619251 240-1009	419619252 240-1009R	HSIS23 230-2045	
2221135520 10810	419619253 240-1010	419619281 240-1008	HSIS26 230-2041	
2221137201 10808	426649150 240-1014	430649531 240-1012	HSIS32 230-2094	
222113C800 13286	430649533 240-1013R	430649571 240-1013	HSIS48D 230-2152	
222113C810 13286	430649571 240-1013	432649833 240-1018R	HSIS48D2 230-2166	
2221222003 10548	432649833 240-1018R	432649835 240-1018	HSIS52 230-2198	
2221222004 10548	433647531 240-1017	433647533 240-1017R	HSIS82D 230-2197	
2221222011 10549			HSJP25 230-2192	
2221223000 10724			HSJP40 230-2121	
2221223600 10817			HSKA20 230-2154	
2221225002 13256			HSMT18A 230-2085	

Interchange Listing

IRONTITE (Cont'd)	8140313320 01480	8944509510 SB1375-51	566007 180-1037
	8171200700 VL138	8944619570 10725	566062 180-1264
	8171224900 VL559	8944619580 10726	566153 180-1266
437655116 240-1002	8241000050 VL175	8970107270 VL146	566154 180-1267
437657176 240-1004	8241002940 180-1323	8970155460 10502	566155 180-1240
448679461 240-1024	8245038560 121-1003	8970155462 10502	RP3205B 190-1438
448679731 240-1026	8245748600 160-1436	8970155470 10503	RP3274 192-1444
448679732 240-1025	8245753840 01903	8970155471 10503	RV35031 10195
448679733 240-1027	8245753870 01902	8970156100 SB1437-67	RV35035 10190
ISUZU	824575409 190-1539	8970228160 SB1750-51	RV35039 10157
	8245755820 122-1324	8970228170 SB1562-66	RV35040 10162
	8245769740 01998	8970231081 160-1372	RV35041 10243
1117110430 SB1539E-2	8245769750 01999	8970287020 10725	RV35044 10624
1117150540 SB1854E-2	8245772770 160-1480	8970287060 10726	RV35054 10310
1117210080 140-8024	8903546480 121-1098	8970336730 122-1119	RV35055 10328A
1125510830 13115	8904107410 122-1329	8970338641 02239	RV35056 10337
1125511110 13117	8904108160 02040S	8970338642 02237	RV35057 10070
1125511112 13117	8904122770 10784	8970343790 10725	RV35060 10339SA
1125511390 13115	8905020790 140-3010	8970378020 SB1812-51	RV35063 10309
1125520520 13120	8905020800 140-3011	8970427240 10728S	RV35080 10105
1125520630 13118S	8905709670 VL571	8970604150 02238	RV8702 10061
1125520790 13120	8931740760 VL571	8970850662 10728S	RV8802 10076
1125520800 13120	8940512590 240-1019R	8970884600 SB2013E-1	RV8803 10065
1125520830 13120	8941105590 122-1130	8970949940 10728S	RV8811 10056
1125610110 160-1546	8941105591 122-1130	8971102560 10221S	RV8828 01285
1125610380 160-1558	8941188390 10215S	8971197510 10220S	RV8838 10070
1125610890 160-1556	8941255110 160-1434	8971201670 122-1315	RV9101 10015
1125610900 160-1558	8941255120 160-1435	8971203070 122-1137	RV9104 10031
1125620080 160-1545	8941295500 10725	8971208990 160-1551	RV9147 10048
1125620270 160-1557	8941307490 10214	8971209050 160-1552	RV9149 01598
1125620570 160-1555	8941539690 10218	8971209110 160-1553	RV9151 10087
1125620580 160-1557	8941558160 SB1375-60	8971209120 160-1554	RV9163 10406
1125690150 122-1315	8941742204 SB1812-51	8971319610 10739	RV9183 10307
12204PV0305 140-8158	8941742231 10221S	8971319620 10740	RV9193 10078
125690060 122-1137	8941767080 140-8189	8971363280 160-1372	RV9199 10268
5117110260 SB1437-58	8941767091 140-8255	8971884630 240-1019	RV9225 10107
5117150230 SB1625-55	8942007140 121-1047	8971887460 161-1082	RV9227 10328A
5117210010 140-8023	8942007481 SB1750-51	8971891140 02238	RV9248 10367
5117210160 140-7656	8942059770 10087	8972098762 13122	RV9262 10192
5125510280 10216	8942067620 140-7713	8972098763 13122	RV9284 10281
5125510300 10216	8942067630 140-7714	8972106820 160-1571	RV9304 10348
5125520340 10217	8942133840 SB1500-50	8972107020 122-1413	RV9310 10141
5125520342 10217	8942203540 SB1562-66	8972125711 SB1343E-1	RV9318 10322
5125520380 10217	8942395010 121-1048	8972125720 SB1264E-1	RV9320 10236
5125520480 10726	8942509770 10105	8972129940 122-1346	RV9330 10176
5125690010 122-1315	8942509780 10104	8972195092 02238	RV9346 10216
5125690100 122-1315	8942512750 10218	8972503401 140-3049	RV9352 10103
5125690160 122-1407	8942512760 10220S	8973255462 VL573	RV9356 10127
5862020930 140-8158	8942514400 10220S	8973291060 161-1082	RV9364 01598
5862020940 140-8157	8943161570 140-8255	8973528880 160-1570	RV9368 01449
5862021850 121-1060	8943255280 SB1187-52	8973669450 02175	RV9370 01452
5862058770 122-1201	8943331140 10726	8973669460 02176	RV9372 01598
5862058780 122-1201	8943626451 140-8189	8973767200 122-1508	RV9374 10255
5862059410 10541	8943626451 140-8189	8980258250 160-1457	RV9375 10218
5862059420 10542	8943907800 140-3101	8980388700 13463	RV9376 10214
8052342120 VL94	8943933100 160-1567	8981583761 13464	RV9378 10145
8101309920 121-1090	8943933961 160-1554	9117118030 SB1539E-2	RV9381 10103
8101663450 121-1085	8943933971 160-1553	9117156070 SB1854E-1	RV9383 10118
8101988090 160-1267	8943944620 SB1894E-1	94029347 140-7656	RV9385 10385
8101988160 01736	8943949960 160-1554	94424506 140-8291	RV9386 01285
8101988170 01737	8943951131 02237		RV9389 10126A
8101988180 122-1236	8943952660 160-1553	ITM	RV9405 01413
8102146640 180-1337	8943954620 02238	0565149 VL173	RV9410 01555
8102388520 190-1537	8943958820 13121	51104 121-1039	RV9411 01553
8124820620 122-1338	8943958830 13122	51142 121-1054	RV9412 10157
8124820630 122-1337	8943961720 SB1697E-1	51143 121-1058	RV9420 10247
8125108010 181-1063	8943965980 140-3054	51256 121-1048	RV9434 10172
8125536960 160-1488	8943966092 122-1369	565001 VL83	RV9440 10270
8125630630 02000	8943975000 160-1566	565003 VL81	RV9441 10273
8125630640 01935	8943994300 02239	565007 VL87	RV9446 10169
8125644940 01934	8944284660 122-1119	565008 VL86	RV9448 10117
8125743540 122-1349	8944294870 121-1074	565009 VL9	RV9452 10275
8125897740 160-1488	8944410740 10220S	565010 VL35	RV9453 10284
8125925060 160-1579	8944470260 10221S	565043 VL109	RV9454 10284
8125960780 160-1480	8944470740 10221S	565043 VL109	RV9455 10314
8126363930 161-1082	8944509500 SB1187-52	565131 VL146	RV9463 10218
8140313280 01481			

Interchange Listing

JOHN DEERE (Cont'd)	K-LINE			
R536136 13417	KL1400A 122-1399	J19R SB2187-1C	OK30E12121 02195	
R537044 140-3196	KL1401G 122-9000	J20B SB2125-2	OK93812121 10159	
R545673 140-3197	KL1402 322-1020	J21DR SB2250-1	OK95412111A 10814	
R59894 SB2136E-1N	KL1402A 322-1020	J22 SB2375-2	2211423000 140-8573	
R60537 SB1991E-1N	KL1402F 122-9001	J23 SB2444E-1	2211433010 140-8193	
R63981 01590S	KL1403F 122-9002	J26E2 SB2562-1	221143C100 140-3152	
R63982 01412	KL1404 322-1019	J2BTH30 SB1161E-1	2211533010 140-8194	
R72611 01471S	KL1404A 322-1019	J4P SB1250-1	2211537100 140-8572	
R73064 SB1858E-1N	KL1404H 322-1019	J4TH8 SB1262E-1	2221125002 13255	
R75690 01590S	KL1405 322-1021	J5 SB1312-1	2221126600 13047	
R78702 SB1750-2	KL1405A 322-1021	J5CPH SB1348E-1N	222112G000 13255	
R79623 01234	KL1405H 322-1021	J6 SB1375-4	2221135510 10810	
R79624 01233	KL1406 322-1022	J6BP SB1437-4	2221135520 10810	
R81086 161-1054	KL1406A 322-1022	J6BR SB1437-8	2221137201 10808	
R81087 01590S	KL1406H 322-1022	J6P SB1375-1	222113C800 13286	
R82508 SB1750-2+010	KL1408 322-1023	J6R SB1375-5	222113C810 13286	
R83071 01471S	KL1408A 322-1023	J7 SB1437-3	2221225002 13256	
R84618 01587	KL1408H 322-1023	J7ATH SB1562-34	2221235500 10811	
R84619 01586	KL1424A 122-1223	J7B SB1500-2	2221237200 10809	
R84976 SB1933E-2	KL1425 122-1224	J7BR SB1500-6	222123C800 13287	
R84977 SB2051E-4	KL1425A 122-1224	J7R SB1437-5	2222302500 121-1060	
R85687 SB1695E-1	KL1427A 122-1400	J8 SB1500-1	2222321004 121-1031	
R87627 122-1023	KL1428A 122-1221	J8AT SB1625-7	2222322001 121-1102	
R89219 01471S	KL1429 122-9003	J8BR SB1562-7	2222423500 122-1366	
R90692 01588	KL1430 122-9004	J8E SB1441E-1	222242G000 122-1440	
R91822 160-1447	KL1431 122-9005	J8K SB1505E-1	2222438000 122-1114	
R91889 121-1078		J8R SB1500-3	2222438010 122-1114	
R98062 01589		J9 SB1562-1	222243C100 122-1444	
R98063 SB1856E-1		J9AR SB1687-6	222243CAA0 122-1444	
RE11410 161-1040		J9ATH SB1562-2	222243CAB0 122-1444	
RE31617 122-1069		J9B SB1625-4	2223137100 VL568	
RE516486 160-1667		J9BH SB1625-11	2223137110 VL568	
RE517435 240-1040		J9BR SB1625-3	2461033050 VL135	
RE518080 13246		J9BT SB1630E-1	OFE3P12121 10815	
RE518081 13417		J9BTU27 SB1657E-1	OKL0110155 122-1246	
RE518082 SB1476E-2		J9BU SB1625-20	OKL0210155 122-1285	
RE518083 SB1437E-2		J9E SB1562-3		
RE518339 240-1037		J9R SB1562-4		
RE519115 122-1485		Z10 SB1625-1N		
RE520980 122-1470		Z10R10 SB1640E-1		
RE523985 122-1420		Z12C SB1687-3N		
RE526519 122-1432		Z12CE SB1687-2N		
RE527456 240-1054		Z12E SB1750-3N		
RE528349 240-1040RT		Z12U SB1750-32		
RE528634 240-1038		Z13 SB1812-5N		
RE529187 122-1421		Z13CE SB1750-2N		
RE530609 240-1040RB		Z13T SB1812-9N		
RE531221 13246		Z14CT30 SB1847E-1		
RE531223 160-1602		Z16BU62 SB1937-8		
RE531334 240-1037		Z16J SB2000-3N		
RE532712 122-1470		Z18BX SB2187-7		
RE536919 122-1488		Z20U SB2250-13		
RE539446 240-1049		Z22AY10 SB2506E-1		
RE541360 122-1489		Z3AT SB1312-5		
RE543935 240-1040		Z4 SB1250-2		
RE548489 240-1049		Z8 SB1500-1N		
RE557890 13246		Z9 SB1562-1N		
RE557891 13417		Z9ATH SB1562-2N		
RE60005 161-1042		Z9BR SB1625-3N		
RE66635 122-1415		Z9BSH SB1628E-2		
T110649 13416		Z9BTH SB1630E-1N		
T110650 122-1484		Z9DT SB1750-17		
T11211T 140-1899		Z9HU57 SB1624E-1N		
T122075 240-1037RT				
T15683T 140-1896				
T20077 121-1007				
T20174T 01234				
T20175T 01233				
T23477T 01306				
T25466 01306				
T25467 01305S				
T556T 140-1860				
	K.O. LEE			
	J10 SB1625-1			
	J10AR SB1750-8			
	J10AT SB1750-9			
	J10AU SB1750-0			
	J10D SB1562-5			
	J10E SB1562-12			
	J10R SB1625-2			
	J11R SB1687-7			
	J11T SB1687-8			
	J12 SB1750-4			
	J12A SB1875-12			
	J12B SB1812-7			
	J12BHU12 SB1828E-1			
	J12C SB1687-3			
	J12CE SB1687-2			
	J12E SB1750-3			
	J12T SB1750-5			
	J13 SB1812-5			
	J13AU SB1937-10			
	J13BT SB1875-14			
	J13C SB1750-1			
	J13CE SB1750-2			
	J13E SB1812-2			
	J14 SB1875-2			
	J14C SB1812-1			
	J14CE SB1812-4			
	J14H SB1875-7			
	J14T SB1875-11			
	J16 SB2000-6			
	J16B SB1875-1			
	J16BE SB1875-6			
	J16CE SB1937-6			
	J16E SB1812-12			
	J17 SB2062-8			
	J17+16 SB2088E-1			
	J17C SB1937-15			
	J17D SB2000-2			
	J17U SB2000-4			
	J18CT SB2000-18			
	J18E SB2000-1			
	J18R SB2125-7			
	J19BX SB2250-18			
	J19C SB2125-1			
	J19D SB2062-3			
	J19E SB2000-7			
		KIA		
		0B6S712111 10157		
		OK24712101 VL149		
		OK24712111 02196		
		OK24712121 02197		
		OK2NC12111 13038		
		OK2NC12121 13039		
		OK30E10155 122-1162		
		OK30E10281 140-3129		
		OK30E12111 02194		
		OK30E12114 121-1108		
			KOMATSU	
			13212FY500 140-7826	
			3006457 140-7264	
			6127111341 140-8160	
			6136111130 240-1050	
			6136424520 121-1135	
			6140414540 122-1473	
			6150111320 SB1835E-1	
			6150121341 140-3183	
			6150121351 140-3183	
			6150121370 140-3184	
			6150121380 SB1874E-4N	
			6150414111 13385	
			6150414210 13386S	
			6150414230 13391S	
			6150414411 160-1652	
			6150414420 160-1651	
			6150414570 122-1474	
			6150424110 13389	
			6150424210 13390S	
			6151111330 SB1874E-3	
			6162434111 13447	
			6164414211 13448S	
			6204111440 SB1538E-2	
			6204191310 140-3181	
			6204414210 13384	
			6204414431 160-1653	
			6204414520 121-1134	
			6204414540 122-1472	
			6204414541 122-1472	
			6207111430 SB1775E-3	
			6207111440 SB1539E-5	
			6207414110 13383	
			6207414130 13383	
			6209414110 13387	
			6209414210 13388S	
			6240414110 13447	
			6240414210 13448S	

Interchange Listing

KOMATSU (Cont'd)	4438258 01913	21990221 122-1469	102EX 01242
6610414210 00326S	LR008878 121-1104	25100204 161-1052	105EX 00742
6710414210 00602	LR025006 122-1411	25502378 161-1074	106EX 01266
6712414110 00603	LR025018 122-1410	25633189 122-1361	107EX 01358
6732111170 SB1722E-1	LR031531 160-1684	446GC279 122-1322	108EX 01329
6732111180 SB1853E-1		446GC296 122-1274	109EX 01332
6732412112 VL156	LEXUS	446GC328 122-1274	111EX 01106
6732413111 190-1530	137110F010 13273	446GC332 122-1361	113EX 01000
6732414430 160-1527	137110P010 13086	54GC126 121-1009	114EX 01307
6732414520 121-1079	137110P030 13086	54GC25 121-1094	115EX 01237
6732414540 122-1269	137110T010 13365	575GC1100 160-1171	116EX 01169
6736414110 01665	1371150060 13273	575GC1115 160-1466	119EX 01325
6736414210 01664	137150F020 13274S	575GC146 160-1296	120EX 01320
M11900011810 140-3189	137150S020 13087	575GC172 160-1295	121EX 01597
M12013011860 140-3190	137150T010 13366	575GC213 160-1189	122EX 01327
M12140011340 122-1484	1371531140 13087	575GC35 160-1624	123EX 01354
M12185011150 122-1482	1371550060 13274S	575GC36 160-1624	126EX 01381
M12390011100 13409	9008031043 122-1266	688GC185 01037	128EX 01394
M12390011110 13410	9008031046 122-1282	688GC2325 01037	131EX 01814
M12390011120 160-1663	9091303028 121-1100	688GC2325A 01037	133EX 01192
M12446011340 122-1483	90913A3001 121-1100	688GC2352 01037	134EX 01389
M12910011100 13415		688GC2352A 01037	136EX 01480
M12910011130 13416	MACK	688GC2361A 01037	1370IN 02255
M12915011810 140-3191	12GC129 240-1021	688GC2364 01446	1373EX 02187
M12979511120 160-1665	12GC212A 240-1020	688GC2378 01570	1374IN 02188
M27310080001 121-1138	12GC412 240-1023	688GC2389 01750	137EX 02058
M27310090000 121-1139	13GC1238P1 SB2088E-1	688GC337 01446	1385EX 01366
M27310090001 121-1139	13GC1238P30 SB2088E-1+030	688GC337A 01446	139EX 01537
SB1775E-4 SB1775E-4	13GC1239P1 SB2444E-1	688GC339 01572	140EX 01504
YM12990011100 13411	13GC1239P30 SB2444E-1+030	688GC344 02095	141EX 00303
YM12990011110 13412	13GC2226 SB1725E-2N	690GC122 01036S	142EX 00375
YM12990011120 160-1664	13GC2233 SB2088E-1	690GC2114B 01036S	143EX 00559S
	13GC2233P15 SB2088E-1+015	690GC2187A 01036S	144EX 01294S
	13GC2234P1 SB2444E-1	690GC2187B 01036S	145EX 00996S
	13GC2234P30 SB2444E-1+030	690GC2193 01415S	146EX 01441
	13GC2234P62 SB2444E-1+062	690GC2210 01571S	147EX 01135
	13GC2237 SB2444E-1	690GC2210 01571S	148EX 01133S
	13GC2247P1 SB2088E-1	690GC331 01415S	149IN 00399
	13GC2247P15 SB2088E-1+015	690GC331A 01415S	150IN 00494
	13GC2247P30 SB2088E-1+030	690GC339 01573S	151IN 00567
	13GC2248P1 SB1841E-1	690GC410 13307S	153IN 00560
	13GC2251P1 SB1831E-1	690GC411 01910S	154IN 00637
	13GC2251P15 SB1831E-1+015	690GC417 01910S	156IN 00696
	13GC2251P31 SB1831E-1+030	690GC425 13307S	157IN 01268
	13GC2251P5 SB1831E-1+005	690GC427 01910S	158IN 00963
	13GC2264P1 SB1692E-1N	690GC428 01415S	159IN 00938
	13GC2264P15 SB1692E-1N+015	690GC432 13307S	160IN 00947
	13GC2264P31 SB1692E-1N+030	714GB1308P2 140-1809	161IN 01120
	13GC2264P5 SB1692E-1N+005	714GB1309 140-1810	162IN 00949
	13GC2290 SB1692E-1N	714GB199A 140-1515	1637EX 01429S
	13GC2292 SB1692E-1N	714GB210P2 140-7592	163IN 01107
	13GC38 SB1831E-2	714GB217P2 140-8007	164IN 00997
	20510747 121-1083	714GB217P2 140-8008	165IN 01082
	20513285 13435S	714GB222P2 140-8010	1667EX 01586
	20530103 SB1697E-2	714GB26P2 140-8105	1668IN 01587
	20536487 240-1046R	714GB3103P2 140-8010	1669EX 01588
	20564020 13376S	714GB3111P2 140-3043	166IN 01137
	20705437 121-1094	714GB3113A 140-3043	1670IN 01589
	20706194 SB1831E-2	714GB3113AP2 140-3043	167IN 01238
	20706223 02095	714GB3113P2 140-3043	168IN 01170
	20706516 240-1023	722GC219A 161-1023	169IN 01180
	20706558 160-1624	722GC226 161-1023	170IN 01161
	20732758 SB1579E-1C	722GC311 161-1074	171IN 01260
	20737849 SB1658E-1C	722GC312 161-1074	172IN 01258
	20737856 13375S	722GC313 161-1052	1733 01889
	20739057 13434S	722GC313A 161-1052	1734IN 01899
	20740798 13377S	722GC314 161-1052	1735EX 01900S
	20740804 SB1776E-1C	722GC320 161-1056	1738IN 13307S
	20768519 13378S	722GC321 161-1074	1744IN 01943
	20864662 122-1469	85137065 240-1053	1745EX 01944S
	20904074 140-3157		1746IN 01945
	21016539 13378S	MARTIN WELLS	1747EX 01946S
	21401136 240-1053	01371EX 02254	175IN 01328
	21430918 13376S	100EX 00400	176IN 01357
		101EX 01265	1771IN 02131
			177IN 01442
KUBOTA			
1522113110 13022			
1522113120 13023			
1522113150 122-1372			
1522113153 122-1372			
1522113240 160-1493			
1522113360 121-1123			
1522113560 140-8348			
1522113580 140-8347			
1522113980 121-1123			
1523113540 140-8347			
1523113560 140-8348			
1526113150 122-1375			
1526113240 160-1495			
1526113540 140-3103			
1526113560 140-3104			
1539313120 13021			
1551113580 140-8347			
1552113580 140-8347			
1560113560 140-8348			
1641513110 13024			
1641513120 13025			
1641913125 13028			
1648413110 13024			
1648413120 13025			
1731113560 140-8348			
1732113560 140-8348			
1732113580 140-8347			
1C01013150 122-1375			
1C01013560 140-8348			
66535 140-8347			
6653587 140-8348			
LAND ROVER			
10253 122-1348			
1025392 VL176			
4121218 180-1325			
4397912 160-1504			
4438257 01914			

Interchange Listing

MARTIN WELLS (Cont'd)							
1786EX	02095	271IN	10117	W1097A	SB2375-15	W1672A	SB2062-27
179IN	01380	272EX	10104	W1099	SB1562-2	W1673	SB1625-11+006
180IN	01388	273EX	10102S	W1102	SB2000-27	W1678	SB2062-28
181IN	01382	276EX	10106	W1103	SB1161E-1	W1683	SB1625-30
182IN	01395	277IN	10328A	W1104	SB1125-8	W1697	SB2020E-1
186IN	01393	278EX	10330A	W1105	SB1000-2	W1698	SB1690E-1
189IN	01505	279EX	10116	W1108	SB2125-34	W1699	SB1681E-1
190IN	01481	280IN	10162	W1110	SB2187-11	W1706	SB2125-3
191IN	02057	281IN	10624	W1146	SB1375-10	W1714	SB1375-2
192IN	01538	282IN	10126A	W1148	SB1500-10	W1715	SB1687-1
193IN	00302	283IN	10314	W1155	SB2187-12	W1718	SB1812-19
194IN	00308	285EX	10625	W1156	SB1937-7	W1718A	SB1875-16
195IN	00376	286EX	10128A	W1157	SB2062-5	W1719	SB1687-14
196IN	00373	287IN	10236	W1157A	SB2125-15	W1719A	SB1750-32
198IN	01457	289IN	10190	W1159	SB2062-4	W1748	SB1937-27
199IN	01152	290EX	10315	W1159A	SB2125-16	W1762	SB1062-4
200IN	01362	292IN	10176	W1160	SB1628E-2	W1769	SB1875-53
2022IN	01910S	293EX	10163	W1162	SB1262E-1	W1786	SB1312-11
202IN	00349	294EX	10237	W1163A	SB2312-11	W1787	SB1880E-1
203IN	01057S	296IN	10328A	W1166	SB1812-14	W1794	SB1312-7
204EX	01422S	297EX	10191	W1167	SB1812-15	W1798	SB1125-6
205EX	01326	303IN	10337	W1168	SB1875-5	W1803	SB2006E-3N
207EX	01399	304EX	10177	W1169	SB2000-8	W1817	SB1818E-1
208EX	01417	305EX	10193	W1170	SB1875-21	W1818	SB1693E-1N
213EX	01177S	306IN	10192	W1172	SB1875-19	W1825	SB1187-4
214EX	01542	308EX	10338S	W1176	SB2250-10	W1828	SB2001E-1
215EX	01547	311IN	10172	W1180	SB1062-2	W1829	SB1628E-1N
216EX	01710	314EX	10221S	W1185	SB1437-14	W1831	SB1678E-1
218EX	01206S	315EX	10164	W1186	SB1750-6	W1848	SB1125-4
219EX	01483S	316IN	10255	W1198	SB2444E-1	W1851	SB1815E-1
220EX	01482S	317IN	10224	W1215	SB1687-12	W1868	SB1562-34
221EX	01780S	318EX	10256	W1216	SB1562-18	W1905	SB1437-2
222EX	01261S	451EX	01500	W1216A	SB1625-10	W1906	SB2250-37
224EX	01271	452EX	00759	W1217	SB1125-2	W1921A	SB1500-57
225EX	01419	453EX	01018	W1219	SB1250-4	W1932	SB1691E-1
227IN	01711	458EX	01570	W1222	SB1562-12	W1961	SB1750-38
230IN	01598	459IN	01571S	W1223	SB1312-6	W2051	SB1442E-1
231IN	01484	6100EX	13161	W1224	SB1441E-1	W2089	SB1500-71
233IN	01543	6102	00602	W1228	SB1744E-1N	W2199	SB1625-17
234IN	01272	803IN	02014	W1255	SB2562-1	W2302	SB1375-7
235IN	01548S	805IN	01667	W1256	SB2187-1	W2310	SB1750-11
238IN	01450	806EX	01666	W1285	SB1625-5	W2335	SB2062-29
239IN	01263	809IN	01532	W1286	SB1812-20	W2346	SB1225-31
240EX	01460S	810IN	01663	W1288	SB2062-31	W2363	SB1250-12
241EX	01468S	812EX	01658S	W1288A	SB2125-32	W2364	SB1312-3
242IN	01461S	813EX	01662S	W1290	SB1687-11	W2366	SB1312-5
243IN	01314S	814EX	01662SNR	W1290A	SB1750-17	W2371	SB1437-17
244IN	01462S	823IN	01660	W1301	SB1505E-1	W2372	SB1437-18
245EX	00319	824IN	01756	W1302	SB1442E-2	W2380	SB1500-19
246IN	00318	825EX	01847S	W1309	SB1812-10	W2387	SB1375-6
247EX	01761S	826EX	01661S	W1310	SB1900E-1	W2388	SB1375-18
248IN	00755	828EX	01659S	W1316	SB1657E-1	W2393	SB1312-13
249IN	00752S	W1000	SB1750-1	W1326	SB1803E-1	W2397	SB1562-15
250IN	00852S	W1001	SB1125-5	W1334	SB2312-1	W2399	SB1375-22
251EX	00574S	W1002	SB1500-5	W1352	SB1875-11	W2404	SB1437-24
252EX	00751S	W1004	SB1625-11	W1354	SB1625-20	W2407	SB1500-26
253EX	01145S	W1006	SB1937-15	W1413	SB1562-3	W2408	SB1562-11
254IN	01379	W1009	SB1437-10	W1415	SB2006E-2	W2410	SB1562-0
255EX	01378	W1010	SB1375-8	W1416	SB2131E-1	W2411	SB1437-28
256IN	01146S	W1011	SB1187-7	W1425	SB1899E-1	W2413	SB1437-30
257IN	00603	W1017	SB1687-19	W1436	SB1691E-2	W2416	SB1500-12
258EX	00702	W1026	SB2220E-1	W1445	SB1625-35	W2417	SB1500-0
259EX	00326S	W1031	SB1812-0	W1455	SB1875-8	W2420	SB1562-35
260EX	00602S	W1045	SB1500-8	W1457	SB2062-1	W2423	SB1625-29
261IN	01534	W1060	SB1818E-2	W1462	SB1812-8	W2425	SB1687-23
262IN	00703	W1061	SB1693E-2	W1464	SB1812-3	W2428	SB1750-20
263EX	01533S	W1066	SB1687-15	W1468	SB1500-4	W2429	SB1500-29
264EX	01420S	W1068	SB1687-16	W1470	SB1500-30	W2435	SB1750-24
265IN	01665	W1073	SB2006E-1	W1502	SB1562-36	W2436	SB1750-25
266EX	01664	W1084	SB1687-13	W1648	SB1912E-1	W2438	SB1812-25
267IN	01423	W1085	SB1624E-1N	W1651	SB2250-20	W2444	SB1687-27
268IN	10105	W1087	SB1875-20	W1652	SB1486E-1	W2453	SB1625-33
269IN	10103	W1089	SB1437-1	W1657	SB1814E-1	W2456	SB1625-14
270IN	10107	W1090	SB2000-7	W1658	SB1670E-1	W2459	SB1687-29
		W1094	SB1312-2	W1661	SB1609E-1	W2464	SB1625-36
		W1095	SB1562-4	W1672	SB2000-18	W2470	SB1750-33

Interchange Listing

MARTIN WELLS (Cont'd)					
W2472	SB1812-17	W3586	SB1375-52	W4647	SB1750-68
W2476	SB1875-32	W3594	SB1250-52	W4650	SB1875-54
W2478	SB1875-33	W3603	SB1750-60	W4652	SB2000-50
W2480	SB1687-32	W3604	SB1562-54	W4653	SB1812E-4
W2481	SB1687-17	W3611	SB1812-54	W4656	SB2125-38
W2482	SB1687-33	W3612	SB1625-53	W4659	SB1625-59
W2485	SB1687-35	W3621	SB1625-64	W4660	SB1312-59
W2486	SB1750-34	W3636	SB1812-52	W4661	SB1937-52
W2487	SB1750-13	W3637	SB1250-50	W4662	SB1562-67
W2489	SB1750-36	W3648	SB1812-53	W4670	SB1819E-1
W2494	SB1750-39	W3652	SB1625-52	W4671	SB1812-56
W2498	SB1812-10	W3653	SB1437-56	W4850	SB1727E-2N
W2503	SB2000-33	W3654	SB1937-51	W502	SB1562-7
W2504	SB2000-34	W3655	SB1625-58	W5020	SB1823E-1
W2506	SB2062-19	W3677	SB1437-51	W5021	SB1695E-1
W2509	SB2125-21	W3678	SB1875-57	W5022	SB1933E-2
W2511	SB1812-38	W3679	SB1500-73	W5025	SB1811E-2N
W2514	SB1875-17	W3691	SB1625-63	W5025	SB1811E-3
W2515	SB1875-18	W3699	SB1562-9	W503	SB1500-1
W2516	SB1937-8	W4106	SB1937-12	W504	SB1625-3
W2517	SB2125-26	W4107	SB1750-12	W505	SB1625-1
W2518	SB2250-21	W4109	SB2150E-1	W5056	SB1856E-1
W2520	SB1875-35	W4110	SB1812E-3	W507	SB1750-7
W2524	SB1937-17	W4112	SB1669E-1	W508	SB1750-4
W2525	SB1937-30	W4113	SB1775E-1	W509	SB1687-3
W2528	SB2000-15	W4114	SB1973E-1	W511	SB1875-9
W2529	SB2000-29	W4124	SB1500-63	W5114	SB1722E-1
W2530	SB2000-4	W4174	SB1312-56	W512	SB2000-10
W2532	SB2062-22	W4175	SB1312-57	W513	SB1812-1
W2534	SB2062-23	W4178	SB1437-58	W514	SB1875-1
W2535	SB2062-24	W4179	SB1500-58	W514A	SB1937-2
W2543	SB1937-19	W4181	SB1562-57	W515	SB2000-16
W2550	SB2125-7	W4183	SB1625-55	W519	SB1875-0
W2552	SB2125-30	W4184	SB1625-56	W520	SB2250-15
W2553	SB2187-15	W4192	SB1815E-1	W5213	SB1692E-1N
W2558	SB2000-38	W4198	SB2049E-1	W5234	SB1831E-1
W2559	SB2125-33	W4199	SB1875-51	W5234D	SB1831E-2
W2568	SB2125-39	W4201	SB1312-53	W530	SB2125-10
W2574	SB2187-27	W4204	SB1375-54	W531	SB1625-2
W2578	SB2250-35	W4208	SB1630E-1	W532	SB2000-6
W2902	SB1857E-1	W4209	SB1781E-1N	W5328	SB1853E-1
W2924	SB2006E-5	W4218	SB1687-51	W533	SB2250-13
W2926	SB2006E-7C	W4451	SB2049E-1	W534	SB1875-2
W2941	SB2129E-2	W4584	SB1784E-1N	W535	SB1562-1
W3057	SB1654E-1N	W4597	SB1750-65	W536	SB1687-5N
W3164B	SB1437-25	W4599	SB1062-50	W537	SB2250-2
W3165B	SB1312-10	W4600	SB1125-51	W538	SB1437-5
W3166B	SB1562-51	W4601	SB1187-51	W539	SB1937-9
W3167B	SB1437-53	W4602	SB1187-52	W540	SB2375-2
W3345	SB1312-9	W4603	SB1187-53	W542	SB1875-12
W3425	SB1812-24	W4604	SB1250-53	W543	SB2187-2
W3455	SB1671E-1N	W4605	SB1437-61	W544	SB1937-4
W3459	SB1562-31	W4606	SB1437-62	W545	SB1562-13
W3501	SB1437-22	W4607	SB1250-54	W546	SB1625-9
W3527	SB1437-50	W4609	SB1250-56	W546A	SB1687-22
W3528	SB1312-50	W4612	SB1312-62	W547	SB1687-9
W3530	SB1437-59	W4613	SB1312-63	W548	SB2125-6
W3539	SB1375-50	W4614	SB1312-64	W550	SB1375-4
W3540	SB1750-51	W4616	SB1375-55	W551	SB1812-13
W3541	SB1500-50	W4617	SB1375-56	W553	SB2000-13
W3542	SB1562-66	W4619	SB1375-60	W553A	SB2062-11
W3543	SB1375-51	W4620	SB1437-63	W554	SB2125-11
W3544	SB1750-61	W4622	SB1437-65	W555	SB2250-9
W3545	SB1500-62	W4623	SB1437-66	W557	SB1875-13
W3551	SB1312-52	W4624	SB1437-67	W558	SB1500-2
W3552	SB1812-55	W4625	SB1437-68	W559	SB2062-6
W3553	SB1437-60	W4627	SB1500-70	W560	SB1437-3
W3554	SB1625-50	W4628	SB1500-74	W565	SB1812-5
W3555	SB1500-53	W4629	SB1500-75	W566	SB1625-4
W3556	SB1812-50	W4631	SB1562-69	W567	SB1687-7
W3557	SB1500-54	W4633	SB1562-72	W570	SB1847E-1
W3560	SB1750-52	W4635	SB1562-74	W571	SB2250-5
W3561	SB1812-51	W4638	SB1625-62	W580	SB1516E-1
W3567	SB1500-56	W4641	SB1687-54	W584	SB1640E-1
		W4642	SB1687-55	W592	SB2125-0
		W4643	SB1687-56	W593	SB1562-16
				W595	SB1937-3
				W595A	SB2000-11
				W605	SB2000-12
				W606	SB2312-6
				W6103	SB1951E-1
				W611	SB1750-8
				W626	SB1500-13
				W628	SB1250-3
				W628A	SB1312-4
				W629	SB1812-18
				W630	SB2062-9
				W634	SB1875-14
				W635	SB1562-17
				W637	SB2506E-1
				W640	SB1750-0
				W640A	SB1812-16
				W645	SB1437-6
				W645A	SB1500-9
				W649	SB1625-7
				W655	SB1937-1
				W663	SB1687-6
				W682	SB1630E-1
				W682A	SB1687-4
				W687	SB1625-18
				W698	SB2187-7
				W699	SB1250-1
				W702	SB1562-8
				W711	SB2250-16
				W712	SB2250-17
				W730	SB1687-2
				W738	SB1937-10
				W739	SB1937-0
				W740	SB2000-9
				W742	SB2187-8
				W743	SB2250-7
				W744	SB2250-18
				W744A	SB2312-8
				W751	SB2062-13
				W771	SB1125-10
				W786	SB1375-5
				W787	SB1875-7
				W792	SB2125-8
				W794	SB2506E-2
				W798	SB1437-4
				W801	SB1000-1
				W802	SB1125-1
				W803	SB1125-7
				W804	SB1187-1
				W805	SB1250-2
				W806	SB1312-1
				W807	SB1375-3
				W808	SB1375-1
				W809	SB1437-8
				W811	SB1500-3
				W812	SB1562-34
				W815	SB1625-15
				W818	SB1687-8
				W819	SB1750-9
				W820	SB1812-7
				W8202	SB2051E-4
				W826	SB2000-24
				W828	SB2062-8
				W829	SB2125-1
				W831	SB2250-12
				W8400	SB1953E-3
				W8401	SB1953E-2C
				W868	SB1187-2
				W871	SB2088E-1
				W873	SB1750-2
				W874	SB2000-1
				W874A	SB2062-25
				W875	SB1500-11
				W876	SB1500-6
				W877	SB1625-8
				W881	SB2187-9
				W886	SB1750-5

Interchange Listing

MELLING (Cont'd)							
JB892	VL21	MPR435	190-1509	MRK651	181-1061	V0530	00530SN
JB900	VL35	MPR437	192-1442	MRM1719	183-1014	V0531	00531S
JB945	VL32	MPR438	190-1532	MRM1720	184-1032	V0548	00548
JB951	VL49	MPR44	192-1337	MRM1721	183-1015	V0549	00549
JB976	VL64	MPR44A	192-1336	MRM1723	184-1033	V0550	00550
JB992	VL63	MPR45	192-1377	MRM1724	187-1014	V0559	00559S
MPR103B	190-1433	MPR456	190-1427	MRM1731	183-1017	V0560	00560
MPR105	192-1229	MPR45A	192-1378	MRM1740	184-1034	V0564	00564
MPR152	190-1237	MPR460	192-1505	MRM1741	184-1035	V0567	00567
MPR155	190-1342	MPR462	190-1525	MRM1772	183-1030	V0574	00574S
MPR201	190-1370	MPR463	190-1527	MRM1773	183-1021	V0585	00585
MPR274	190-1425	MPR464	190-1528	MRM1776	183-1022	V0592	00592
MPR279	192-1321	MPR465	190-1524	MRM1783	183-1024	V0593	00593
MPR280	192-1399	MPR471	190-0471	MRM1786	184-1038	V0598	00598S
MPR281	192-1409	MPR610	190-1539	MRM1791	184-1039	V0600	00600
MPR282	192-1462	MPR71	190-1221	MRM1793	184-1040	V0601	00601
MPR301	190-1429	MPR73	190-1543	MRM1796	184-1038	V0602	00602
MPR302	190-1421	MPR80	190-1222	MRM1797	183-1026	V0603	00603
MPR305	190-1385	MPR81	190-1280	MRM1798	183-1027	V0608	00608
MPR306	192-1322	MR1345	180-1335	MRS641	186-1090	V0609	00609
MPR307	190-1411	MR1850	180-1028	MRS661	186-1100	V0627	00627
MPR308	190-1396	MR700	180-1004	V0121	00121	V0637	00637
MPR309	190-1395	MR710	180-1029	V0122	00122	V0658	00658
MPR309B	190-1478	MR740	180-1236	V0154	00154	V0659	00659
MPR310	190-1417	MR810	180-1037	V0155	00155	V0678	00678
MPR311	190-1351	MR813	180-1040	V0159	00159	V0679	02084
MPR311A	190-1351+60	MR814	180-1041	V0160	00160	V0690	00690
MPR311B	190-1351U60	MR819	180-1012	V0168	00168	V0691	00691
MPR312	190-1426	MR842	180-1228	V0169	00169	V0696	00696
MPR313	190-1327	MR849	180-1304	V0170	00170	V0696+15	01195+15
MPR314	190-1349	MR850	180-1055	V0185	00185	V0696+3	01195+3
MPR315	190-1328	MR851	180-1056	V0193	00193	V0702	00702
MPR317	192-1330	MR859	180-1059	V0196	00196	V0703	00703
MPR318	192-1335	MR867	180-1229	V0203	00203	V0742	00742
MPR321	190-1408	MR876	180-1237	V0204	00204	V0753	00753S
MPR323	190-1403	MR886	180-1238	V0205	00205	V0755	00755
MPR324	190-1450	MR888	180-1233	V0210	00210	V0758	00758
MPR326	192-1381	MR889	180-1234	V0212	00212	V0759	00759
MPR327	190-1384	MR892	180-1077	V0220	00220	V0793	00793
MPR333	190-1440	MR893	180-1078	V0230	00230	V0808	10808
MPR335	190-1433	MR894	180-1079	V0234	00234	V0809	10809
MPR335A	192-1442	MR897	180-1080	V0249	00249	V0810	00810
MPR337	190-1435	MR900	180-1292	V0270	00270	V0811	10811
MPR339	190-1443	MR903P	180-1317	V0302	00302	V0813	10813
MPR342	192-1444	MR923	180-1007	V0303	00303	V0816	10816
MPR343	190-1438	MR925	180-1207	V0308	00308	V0817	10817
MPR344	192-1446	MR926	180-1283	V0312	00312	V0867	00867
MPR345	190-1449	MR927	180-1008	V0313	00313	V0873	00873
MPR347	192-1453	MR928	180-1318	V0318	00318	V0874	00874
MPR34B	192-1331	MR929	180-1284	V0319	00319	V0882	00882A
MPR353	190-1454	MR930	180-1288	V0326	00326S	V0883	00883
MPR356	190-1522	MR931	180-1313	V0327	00327	V0912	00912
MPR358	190-1489	MRDS944	184-1022	V0343	00343	V0917	00917SN
MPR359	192-1322	MRDS945	184-1023	V0348	00348	V0918	00918
MPR35AB	190-1269	MRDS948	184-1025	V0349	00349	V0919	00919
MPR365	190-1489	MRK401	181-1011	V0373	00373	V0921	00921
MPR366	190-1473	MRK402	181-1012	V0375	00375	V0922	00922
MPR367	190-1500	MRK405	181-1014	V0376	00376	V0938	00938
MPR370	190-1531	MRK407	181-1016	V0399	00399	V0947	00947
MPR371	190-1502	MRK409	181-1017	V0399+15	00399+15	V0949	00949
MPR372	192-1480	MRK410	181-1018	V039915	00399+15	V0963	00963
MPR373	192-1485	MRK434	181-1020	V0400	00400	V0965	01177S
MPR374	192-1484	MRK450	181-1021	V0400+15	00400+15	V0969	00969
MPR375	192-1481	MRK511	181-1023	V0400+3	00400+3	V0970	00970
MPR376	192-1482	MRK532	181-1025	V040015	00400+15	V0974	00974
MPR378	190-1455	MRK5401	181-1057	V04003	00400+3	V0975	00975
MPR379	192-1339	MRK5412	181-1028	V0411	00411	V0976	00976
MPR380	192-1338	MRK543	181-1020	V0485	00485	V0988	00988
MPR381	190-1507	MRK5442	181-1032	V0486	00486	V0989	00989
MPR384	192-1491	MRK547	181-1034	V0489	00489	V0996	00996S
MPR389	190-1433+60	MRK548	181-1035	V0494	00494	V0997	00997
MPR405	190-1450+15	MRK5502	181-1059	V0503	00503	V1000	01000
MPR424	190-1478	MRK5512	181-1037	V0504	00504	V1001	01001
MPR434	190-1511	MRK600	181-1040	V0514	00514	V1002	01002
		MRK610	181-1041	V0518	00518	V1041	01041
		MRK650	181-1060	V0520	00520	V1047	01047

Interchange Listing

MELLING (Cont'd)							
V1048	01048	V1263	01263	V1452	01452	V5036	10036S
V1055	01055	V1265	01265	V1457	01457	V5037	10037
V1057	01057S	V1266	01266	V1462	01462S	V5048	10048
V1073	01073	V1266+15	01266+15	V1468	01468S	V5056	10056
V1075	01075S	V1268	01268	V1478	01478	V5060	10060S
V1081	01188	V1269	01169	V1479	01479	V5061	10061
V1082	01082	V1270	01170	V1480	01480	V5064	10064
V1083	01083	V1271	01271	V1481	01481	V5065	10065
V1084	01084	V1272	01272	V1482	01482S	V5070	10070
V1087	01087	V1285	01285	V1483	01483S	V5076	10076
V1097	01097	V1288	01288	V1484	01484	V5078	10078
V1098	01098	V1289	01289	V1500	01500	V5083	10083
V1102	01102	V1292	01292	V1504	01504	V5087	10087
V1103	01103	V1293	01293	V1505	01505	V5102	10102S
V1104	01189	V1294	01294S	V1506	01506S	V5103	10103
V1105	01105	V1296	01296	V1507	01507	V5104	10104
V1106	01106	V1300	01300	V1525	01525S	V5105	10105
V1106+15	01106+15	V1303	01597	V1526	01526	V5106	10106
V110615	01106+15	V1304	01598	V1527	01527	V5107	10107
V1107	01107	V1305	01305S	V1528	01528	V5116	10116
V1120	01120	V1307	01307	V1535	01535	V5117	10117
V1131	01131	V1309	01309	V1536	01536	V5118	10118
V1133	01133S	V1312	01312S	V1537	01537	V5126	10126A
V1135	01135	V1322	01322	V1538	01538	V5127	10127
V1135+15	01135+15	V1323	01323	V1542	01542	V5128	10128A
V1135+3	01135+3	V1324	01324	V1543	01543	V5129	10129
V113515	01135+15	V1325	01325	V1545	01545	V5141	10141
V11353	01135+3	V1326	01326	V1546	01546	V5142	10142
V1137	01137	V1327	01327	V1547	01547	V5143	10143
V1145	01145S	V1328	01328	V1548	01548	V5144	10144
V1146	01146S	V1328+3	01328+3	V1551	01551	V5145	10145
V1147	01147	V1329	01329	V1552	01552	V5146	10146
V1148	01148	V1332	01332	V1553	01553	V5147	10147
V1152	01152	V1336	01336S	V1554	01554	V5148	10148
V1156	01156	V1340	01320	V1555	01555	V5153	10153
V1160	01160	V1354	01354	V1556	01556	V5157	10157
V1161	01161	V1357	01357	V1557	01557	V5159	10159
V1164	01164	V1358	01358	V1560	02058	V5162	10162
V1171	01171	V1361	01361	V1561	02057	V5163	10163
V1172	01172	V1362	01362	V1569	01569	V5164	10164
V1177	01177S	V1366	01366	V1578	01578S	V5169	10169
V1179	01179	V1367	01367	V1591	01591	V5170	10170
V1180	01180	V1368	01368S	V1592	01592	V5172	10172
V1186	01186	V1375	01375	V1646	01646S	V5176	10176
V1192	01192	V1377	01377	V1648	01648	V5177	10177
V1192+15	01192+15	V1378	01378	V1649	01649	V5190	10190
V1192+3	01192+3	V1379	01379	V1670	01670	V5191	10191
V119215	01192+15	V1380	01380	V1671	01671	V5192	10192
V11923	01192+3	V1381	01381	V1673	01673	V5194	10193
V1194	01194	V1382	01382	V1674	01674	V5195	10195
V1195	01195	V1383	01383SN	V1675	01675	V5196	10196
V1195+15	01195+15	V1384	01384S	V1698	01698	V5197	10197A
V1195+3	01195+3	V1385	01385SN	V1699	01699	V5198	10198A
V119515	01195+15	V1386	01386S	V1702	01702	V5214	10214
V11953	01195+3	V1388	01388	V1703	01703	V5215	10215S
V1199	01199	V1389	01387	V1705	01705	V5216	10216
V1203	01203	V1389	01389	V1710	01710	V5217	10217
V1204	01204	V1393	01393	V1711	01711	V5218	10218
V1205	01205S	V1394	01394	V1714	01714	V5220	10220S
V1206	01206S	V1395	01395	V1715	01715	V5223	10221S
V1212	01212	V1397	01397	V1735	01735	V5224	10224
V1217	01217S	V1398	01598	V1737	01737	V5226	10226
V1233	01233	V1399	01399	V1858	01858	V5227	10227S
V1234	01234	V1403	01403	V1918	01918	V5228	10228
V1235	01235S	V1417	01417	V1920	01920	V5229	10229
V1237	01237	V1419	01419	V1924S	01924S	V5234	10234
V1238	01238	V1429	01429S	V1925S	01925S	V5235	10235
V1241	01241SN	V1431	01431S	V2014	02014	V5236	10236
V1242	01242	V1432	01432	V2194	02194	V5237	10237
V1245	01245	V1437	01814	V2195	02195	V5241	10145
V1257	01257	V1441	01441	V3006	13006	V5242	10146S
V1258	01258	V1442	01442	V3038	13038	V5243	10243
V1260	01260	V1448	01448	V3047	13047	V5244	10244
V1261	01261S	V1449	01449	V3255	13255	V5255	10255
		V1450	01450	V5015	10015	V5256	10256
		V1451	01451	V5031	10031	V5268	10268

Interchange Listing

MELLING (Cont'd)	VS1140P 160-1233	VS836 160-1204	11347513023 13222
V5269 10269	VS120 160-1118	VS840 160-1161	11347513024 13223
V5270 10270	VS130 160-1119	VS850 160-1134	11347533884 13321
V5271 10271	VS1301 160-1054	VS850P 160-1134	11347533885 13322S
V5273 10273	VS1302 160-1047	VS870 160-1127	11347547187 13325SN
V5274 10274S	VS1304 160-1086	VS890 160-1135	11347562716 160-1625
V5275 10275	VS1306 160-1103	VS940 160-1003	11347585901 13324
V5276 10276S	VS1317 160-1079	VS960 160-1206	11347587470 13323
V5281 10281	VS140 160-1120	VS970 160-1023	
V5282 10282	VS140P 160-1120	VSR515S 161-1020	
V5284 10284	VS150 160-1122		MINNEAPOLIS MOLINE
V5285 10285S	VS1506 160-1506		10A10073 00159
V5307 10307	VS1579 160-1579	MERCEDES BENZ	10A19116 160-1429
V5308 10308	VS1588 160-1588	0000531126 121-1098	10A19206 00982S
V5310 10310	VS160 160-1124	0000535658 122-1456	10A20408 00983
V5311 10311	VS160P 160-1124	1100531532 SB1625-64	10A20420 122-1207
V5314 10314	VS1612 160-1612	1160531031 SB1625-64	10A26125 01474S
V5315 10315	VS1614 160-1614	1170530232 SB1625-64	10A26421 140-7371
V5322 10322	VS170 160-1125	3520531229 140-3071	10A26467 140-7372
V5323 10323	VS2202 160-1019	3660530230 140-3072	10A27215 122-1225
V5328 10328A	VS2203 160-1013	6110530329 140-3098	10A27221 140-1974
V5330 10330A	VS2207 160-1076	6420500080 VL561	10A29501 140-7420
V5337 10337	VS2208 160-1099	6420500527 13357	10A29502 140-7421
V5338 10338S	VS2209 160-1083	6420530320 160-1640	10A6467 140-7372
V5339 10339SA	VS2211 160-1072	6420530401 13356	10A6555 121-1006
V5340 10340A	VS2216 160-1203	6680530020 160-1639	10A6912 140-1914
V5342 10342S	VS2218 160-1080	A0000531126 121-1098	10R35 00160
V5348 10348	VS2222 160-1085	A0000535158 122-1456	10R36 00159
V5349 10349S	VS2224 160-1363	A0000535658 122-1456	KE283B 00160
V5367 10367	VS2229P 160-1266	A0000535858 122-1491	KE284B 00159
V5385 10385	VS2230 160-1352	A102530026 121-1132	W10A26125 01474S
V5386 10386	VS2255 160-1446	A40000533558 122-1492	
V5387 10387	VS2256 160-1490	A4570500327 13380	MITSUBISHI
V5388 10388	VS2258 160-1568	A4570531332 SB1696E-4	1010A220 13255
V5413 10413	VS2259 160-1410	A4600530001 13379	1010A243 13255
V5520 10520	VS270 160-1132	A5410227A 13424	1011A141 13397
V5521 10521	VS270P 160-1132	A5410530020 160-1648	1011A178 13256
V5522 10522	VS280 160-1154	A5410530126 121-1142	1011A312 13397
V5536 10536	VS280P 160-1154	A5410530532 SB1696E-3	2211224900 SB1437-63
V5541P 10541	VS290 160-1147	A5410532531 SB1882E-1C	2211321930 SB1312-53
V5542P 10542	VS310 160-1136	A5410532730 140-3175	2211324900 SB1312-53
V5560 02036	VS310P 160-1179	A5419970345 240-1047R	2211411050 140-7576
V5806 10806	VS320 160-1138	A6110530032 SB1175E-1	2211432901 140-7576
V5807 10807	VS320P 160-1138	A6110530232 SB1088E-1	2211511050 140-7577
VL100 121-1000	VS330 160-1139	A6110530431 SB1160E-1	2211521900 140-7589
VL1083 121-1083	VS350 160-1142	A6110530531 SB1218E-1	2211532901 140-7575
VL1093 121-1093	VS360 160-1143	A6120500058 122-1360	3060125600 140-3102
VL1097 121-1097	VS380 160-1144	A6420500080 VL561	3060401100 13053
VL1114 160-1114	VS390 160-1148	A6420500527 13357	3060421401 160-1514
VL1116 160-1116	VS400 160-1151	A6420530320 160-1640	3060421402 160-1514
VL1125P 121-1104	VS410 160-1175	A6420530401 13356	32A0101600 140-3097
VL1127P 121-1082	VS410P 160-1175	A6680530020 160-1639	32A0402801 122-1116
VL1268 160-1408	VS420 160-1159	A9060170488 240-1047	32A0410100 13064
VL200 121-1003	VS430 160-1149	A9060500326 13360	32A0411100 13063
VL300 121-1007	VS4300 160-1149	A9060500327 13361	3430102200 140-3102
VL400 121-1014	VS430P 160-1149	A9060530120 160-1643	3440400100 13054
VL530 121-1002	VS450 160-1137	A9060530130 140-3176	3440410100 13051
VL570 121-1011	VS450P 160-1137	A9060530131 SB1382E-2	3440411100 13052
VL590 121-1009	VS460 160-1164	A9060530132 SB1587E-1	3440411102 13052
VL600 121-1047	VS500 160-1140	A9060530358 122-1462	53021873AA 160-1614
VL650 121-1052	VS520 160-1001	A9060531232 SB1587E-1	53021887AA 160-1612
VL669 121-1026	VS550 160-1145		8943933100 160-1567
VL670 121-1019	VS580 160-1009	MERCURY MARINE	8943975000 160-1566
VL700 121-1083	VS584 160-1401	881672 160-1610	M04667139 180-1324
VL710 121-1021	VS720 160-1006	881672001 160-1610	M04667140 VL173
VL760 121-1085	VS720P 160-1006		MD000508 122-1086
VS1020 160-1031	VS730 160-1121		MD008760 121-1034
VS1040 160-1141	VS740 160-1011		MD04667969 01730
VS1040P 160-1141	VS750 160-1005	MINI	MD04667972 01731
VS1090 160-1064	VS770 160-1131	11340029571 122-1251	MD075924 10127
VS110 160-1117	VS780 160-1041	11340033950 122-1453	MD075925 10127
VS1100 160-1049	VS800 160-1024	11341438142 121-1131	MD126605 140-8193
VS1120 160-1150	VS810 160-1044	11341485590 160-1601	MD127840 10126A
VS1130 160-1152	VS810P 160-1004	11347513015 121-1087	MD151369 121-1096
VS1140 160-1233	VS820 160-1162	11347513019 13222	MD159502 10534A
	VS830 160-1041	11347513020 13223	

Interchange Listing

MITSUBISHI (Cont'd)	160907R1 160-1404	1835852C1 SB1480E-2	404064C1 180-1290
	160908R1 160-1405	1835858C1 160-1489	41339D 121-1007
MD162422 10498	1700591C1 SB1973E-1	1837731C1 02179	42024D 00162
MD162423 10499	1700609C1 SB1775E-1	1837732C1 02180	42025DA 00161
MD172527 140-8554	1701325C1 01648	1838034C1 160-1458	428046C1 140-7336
MD172530 140-8571	1804330C1 01543	1839968C1 13002	444829C1 01260
MD184303 122-1252	1804330C2 01543	1839970C1 13003	446418C1 01432
MD195450 180-1207	1804338C1 190-1531	1841095C1 240-1033	446571C1 VL89
MD300702 140-8554	1804420C91 122-1330	1841538C1 140-3079	446723C1 140-7174
MD301193 10534A	1804468C1 01542	1841566C1 121-1085	446854C1 01431S
MD303177 10535A	1805249C1 SB1669E-1	1842137C1 SB1584E-1	446856C1 SB1654E-1N
MD306078 122-1114	1805407C1 140-7689	1842138C1 SB1480E-2	448202C1 01508
MD306079 122-1114	1805917C1 01542	1842145C2 13003	448219C2 140-7457
MD306183 10535A	1809323C1 01542	1842146C1 160-1489	448229C1 140-7456
MD307342 122-1253	1809417C91 181-1060	1842912C1 01946S	448453C2 01507
MD307343 122-1114	1810086C1 01574S	1842913C1 02131	448454C1 01506S
MD337687 VL135	1810086C2 01574S	1850019C1 140-3079	481812C1 01152
MD339767 VL141	1810944C1 121-1011	1854006C1 13182	487879C1 01507
MD373855 13348	1811191C1 01542	1854007C1 13183	488428C1 01432
MD373888 13347	1811191C2 01542	1873916C2 190-1548	489101C4 01649
MD377054 VL135	1811191C3 01542	1889268C1 140-3079	489102C2 01648
MD377560 VL141	1811581C91 161-1033	1889589C1 122-1460	50706DA 00193
MD377561 VL141	1814280C1 01786	217158R91 VL32	50707DA 00205
MM130054 160-1584	1814376C1 240-1026	217158R92 VL32	50731DA 00204
MM130062 160-1016	1814424C1 01785	234275R1 00600	50732DA 00203
MN163286 13350	1815264C1 140-8188	234276R1 00601	535229R1 140-6990
MN163799 13349	1815374C1 122-1301	237248R1 140-1747	57797D 00313
MN183952 122-1440	1816179C91 122-1333	24544DA 160-1604	57798D 00312
MN183955 121-1060	1816638C2 01754	251260R1 00230	6088D 140-1543
MR994497 13199	1818579C1 01900S	251261R2 00485	612312C1 00921
MR994498 13200	1818580C1 01899	251261R3 00485	612313C1 00923
	1818778C1 240-1025	251262R1 160-1503	6169D 140-1544
	1818778C2 240-1025	277577R1 140-6913	61868R11 121-1009
	1818778C3 240-1025	278301R1 00593	62264VA 160-1285
	1820264C1 140-8476	278302R1 00592	62265VA 160-1286
	1820826C91 161-1049	278307R1 140-1881	6338D 140-1546
	1821900C1 SB1823E-1	3055022R2 140-7548	6608DR 140-1578
	1821900C3 SB1823E-1	3055055R2 10766	670301C1 SB1727E-2N
	1821901C1 SB1823E-1	3055056R2 10767S	670308C1 00924
	1821903C1 SB1811E-2N	3055057R91 121-1126	671559C1 SB2001E-1
	1821903C3 SB1811E-2N	3055060R1 160-1492	671561C1 SB2001E-1+013
	1821905C1 SB1811E-2N+015	3055344R1 240-1032	671563C1 SB1628E-1N
	1821905C3 SB1811E-2N+015	3136915R2 10767S	671565C1 SB1628E-1N+013
	1821905C5 SB1811E-2N+015	313774R1 00922	671569C1 SB1536E-2N
	1822245C1 122-1300	315744R1 160-1300	671601C1 SB1536E-2N+015
	1822862C1 140-8476	317365C11 160-1206	671602C1 SB1782E-1
	1823452C1 01786	323774R1 00922	671604C1 SB1782E-1+015
	1823453C1 01785	323800R1 00921	675043C1 SB1999E-1
	1823875C1 01945	326503R1 240-1031	675046C2 01423
	1823875C2 01945	326505R3 140-1957	675046C4 01423
	1823875C3 01945	328300R1 00592	675439C1 140-7431
	1823925C1 122-1320	341350R1 00923	675441C1 SB1782E-1
	1824642C1 01943	343433R1 00924	675442C1 240-1024
	1824642C2 01943	343433R2 00924	675450C1 SB1628E-1N
	1824644C1 121-1091	349025R1 SB1657E-1	675450C3 SB1626E-1N
	1824646C1 140-3006	349381R1 00921	675573C2 01519
	1824647C1 140-8188	352177C1 01152	675573C3 01519
	1824680C1 161-1046	352973R2 140-1636	675574C3 01520
	1824683 122-1426	352973R3 140-7408	675576C1 SB1536E-2N
	1824683C1 122-1426	356583R1 140-1804	676687C1 01520
	1824838C1 01900S	357547R1 00485	676687C2 01520
	1824840C1 01946S	362435R1 00428	676687C4 01520
	1824840C2 01946S	362436R1 00427S	676865C2 01422S
	1824842C1 01944S	366302R1 00504	676865C3 01422S
	1825540C1 160-1417	366302R2 00504	676865C4 01422S
	1826471C1 02131	366303R1 00503	677349C1 160-1416
	1826471C2 02131	366303R2 00503	681234 122-1177
	1827121C2 SB2001E-2	366303R4 00503	681234C1 122-1177
	1828289C1 121-1105A	367191R1 01075S	682064C1 160-1190
	1828320C1 240-1034	368450R1 160-1494	684729C1 170-1012
	1830711C1 SB1811E-3	372699R1 01075S	76954R1 160-1287
	1833382C1 240-1027	372699R2 01075S	795713R1 140-1976
	1833432C1 122-1460	372699R3 01075S	796122R1 140-1977
	1835235C1 240-1034GP	379089C1 SB2000-3N	8044D 140-1547N
	1835655C1 161-1059	387095C1 VL89	8049DR 140-1545N
	1835851C1 SB1584E-1	391936C1 00560	8198DR 140-1579
MORESA			
H202 VL94			
H301 VL73			
H303 VL9			
H304 VL49			
H307 VL35			
H324 VL89			
H330 VL87			
H331 VL88			
H335 VL109			
H341 VL173			
H343 VL37			
H344 VL107			
H345 VL66RH			
H346 VL67RH			
H366 VL117RH			
H378 VL116			
HR300 VL150			
HR348 VL114			
HR355 VL115			
HR356 VL113			
HR373 VL100			
HR375 VL106			
HR376 VL138			
M402 VL63			
M410 VL31			
M420 VL48			
MWM			
961083320024 140-3077			
NAVISTAR/IHC TRUCK			
124476R1 00601			
127201R1 00600			
129597R1 00601			
133670R1 140-1817			
151269R2 00560			
151443R2 00559S			
151443R3 00559S			
151798R1 140-7876			

Interchange Listing

NAVISTAR/IHC TRUCK (Cont'd)		1320103J10	13065	1320253F00	10227S	132073Z00A	122-1150
83481R1		132010B000	10281	1320253F01	10227S	1320740F00	122-1159
874913R2		132010M200	10224	132025M000	10536	1320742L00	122-1119
874918R2		132010Z800	02181	1320264Y00	10229	1320753F00	122-1139
911776		132011E700	10228	1320269A00	10256	1320753G00	122-1139
911776R3		132011EJ00	10228	1320275001	13134S	1320753Y00	122-1162
		132012J202	10794	132027B000	10282S	1320755Y00	122-1162
		132012Y900	10537	132027S000	13238	1320758000	122-1431
		132012Y901	10537	132027S01A	13238	1320766700	122-1377
		1320130P00	10284	132028J10A	13238	1320766U10	122-1159
		1320131M00	10255	132028J110	13238	1320767U10	122-1159
		1320138U00	10537	132028J111	13238	1320776203	122-1377
NEW HOLLAND		132013Z00A	13077	132029E000	10793S	1320777A00	122-1158
8702143		1320140F00	10273	132029N00A	13221	1320781W00	122-1119
87800340		1320140F10	10273	13202AL602	10538	1320781W00	122-1263
SBA110136300		1320140F11	10274S	13202C8700	10289S	1320784A00	122-1150
SBA120166350		1320143G01	13058	13202D0100	10271	13207AA050	122-1180
SBA120166380		132014M700	10224	13202D1200	10271	13207B1500	122-1387
SBA120176360		132014W001	13237	13202ED00C	13234	13207C6000	122-1387
SBA120176380		1320150K00	02243	13202EN20B	13214	13207CJ40A	122-1433
SBA120226070		1320153F01	10226	13202EN20E	13214	13207D0100	122-1139
SBA120406050		1320153F02	10226	13202F6511	10285S	13207D0111	122-1139
SBA120406070		1320153J00	10228	13202FU400	13085	13207D4200	122-1150
SBA198216700		1320153Y00	10224	13202H1000	10034S	13207D4201	122-1150
SBAU10136460		1320157Y00	10224	13202JA00A	13080	13207ED000	122-1433
		1320169A00	10255	13202JA10A	13221	13207ET000	122-1162
		1320170N00	10224	13202JA15A	13080	13207U67U10	122-1159
NISSAN/INFINITI		132017S000	13237	13202JG30A	13080	1321001M01	121-1059
1109801M00		132019E000	10792	13202JK21A	13221	1321016A00	121-1067
1109807W10		132019N00A	13220	13202JK21B	13221	1321040F00	121-1062
1109808U10		13201A1100	10015	13202L2000	10276S	132104F100	121-1064
1109810W10		13201D2000	10270	13202N0400	10036S	1321053Y00	121-1064
1109840F60		13201ED00C	13233	13202N0401	10036S	13210D4200	121-1063
1109853F60		13201EN20B	13213	13202N0410	10036S	13210U0100	121-1047
1109853F61		13201EN20C	13398	13202N0411	10036S	13210ZX00G	121-1064
1109857Y60		13201EN20D	13398	13202N8500	10269	1321101W10	140-7495
1109877A60		13201EN20E	13213	13202P5100	10753	1321130001	140-7495
1109897E60		13201F1800	10752	13202T9000	13134S	13211AA030	122-1187
11098F6510		13201F6510	10284	13202V5210	10282	13211AA050	122-1181
11098H7503		13201F6511	10284	13202V6510	10282	13211ET00A	160-1590
11098K0400		13201FY500	13084	13202VC000	13066	13211ET00C	160-1600
11098K0510		13201H1000	10030	13202VJ200	10793S	13211H1000	140-7545
11098N4210		13201H2300	10030	13202Y5200	10289S	13211JG30A	160-1590
11098N6810		13201H6200	10031	13202Z7001	10289S	13211JG30C	160-1591
11098U8710		13201JA00A	13079	132030B000	160-1216	13211V1700	140-8209
11098U8711		13201JG30A	13079	1320321002	160-1516	13211Z5001	140-3086
11098V5210		13201JK20A	13220	132033RC0A	160-1658	1321201M01	140-7825
11098V5211		13201JK20B	13220	132033RC0C	160-1659	1321201M11	140-7825
1109901M01		13201L2000	10275	132033Z005	160-1590	1321203J10	140-3091
1109901M02		13201N4200	10056	132033Z015	160-1591	1321215M01	140-7825
1109910W10		13201N7000	10015	1320340F01	160-1272	1321215M11	140-7825
1109915M01		13201N8501	10268	1320342L03	160-1216	1321221011	140-7499
1109916A10		13201V5202	10281	1320343G10	160-1518	1321240F60	140-8211
1109921011		13201V7100	10281	1320348600	160-1515	1321253J60	140-8216
1109940F60		13201VC000	13065	1320350K00	160-1136	1321253Y60	140-8218
1109945V10		13201VJ200	10792	1320376200	160-1482	1321254T01	140-3093
1109945V11		13201Y5200	10288	13203C8000	160-1517	1321258S60	140-8190
1109953F60		13201Z5000	13057	13203ED000	160-1603	1321260U60	140-8211
1109953Y60		1320201W00	10749	13203F2000	160-1019	13212C6000	140-3088
1109953Y61		1320201W01	10751	13203FY500	160-1505	13212C6001	140-3088
1109960U60		1320203J00	13066	13203FY50A	160-1505	13212D0110	140-7826
1109984A60		132020B000	10282S	13203JA00B	160-1590	13212D0111	140-7826
1109988A60		132020M200	10536	13203JA00C	160-1591	13212F6560	140-8543
1109997E60		132020Z800	02182S	13203T7200	160-1482	13212FY500	140-7826
11099A8610		132022J201	10795	13203VB005	160-1565	13212H2311	140-7545
11099D4210		1320230P00	10285S	13203ZX00C	160-1591	13212H8510	140-7545
11099H6210		1320231M00	10256	1320423000	160-1013	13212V5010	140-8388
11099N6800		1320238U00	10538	1320440F00	122-1159	13212V5011	140-7873
11099N6810		132023Z000	13078	1320440F01	160-1271	13212V5011	140-8388
11099U0610		132023Z11A	13078	13204VB005	160-1564	13212W0500	140-7828
11099V0700		1320240F01	10274S	1320701M01	122-1141	13212W0510	140-7828
11099V0710		1320240P00	10285S	132070B000	122-1139	1321301W00	140-7498
11099W0410		1320242	10282	132070B010	122-1263	1321303J10	140-3092
1201030W01		1320243G01	13059	1320721002	122-1119	1321321011	140-7499
1201083W01		1320250K00	02244	132072B500	122-1262	1321330001	140-7498
1320101W00		1320250K02	02244	132073Z000	122-1150	1321330002	140-7498
1320101W01							

Interchange Listing

NISSAN/INFINITI (Cont'd)		B5006A 140-5606	C1839 140-1839	C3033 140-3033
1321331U60 140-8217	B5006AG 140-9606	C1851 140-1851	C3034 140-3034	C304 140-8143
1321340F60 140-8212	B5006BG 140-9907	C1852 140-1852	C3046 140-3046	C3047 140-3047
1321344F60 140-8217	B5009PER 140-6113	C1853 140-1853	C3048 140-3048	C3049 140-3049
1321353F60 140-8204	B5010 140-6119	C1854 140-1854	C3053 140-3053	C3053+2 140-3053+2
1321353Y60 140-8213	B5012G 140-9612	C1858 140-1858	C3055 140-3055	C3061 140-3061
13213C6000 140-3089	B5016A 140-5610	C1859 140-1859	C3067 140-3067	C3070 140-3070
13213C6001 140-3089	B5016B 140-6850	C1860 140-1860	C3079 140-3079	C308 140-7713
13213D0110 140-7827	B5016BG 140-9850	C1865 140-1865	C312 140-8021	C315 140-7822
13213D0111 140-8233	B5018 140-1907	C1872 140-1872	C315+2 140-7822+2	C316 140-7714
13213D4260 140-8191	B5019 140-7460	C1881 140-1881	C316+2 140-7714+2	C322 140-9557
13213F6560 140-8544	B5019G 140-9460	C1896 140-1896	C323 140-8200	C333 140-7828
13213H1000 140-7542	B502 140-7528	C1897 140-1897	C334 140-8388	C334+8 140-7873
13213H2311 140-7542	B5021 140-6109	C1898 140-1898	C335 140-8389	C335+8 140-8017
13213U0110 140-7499	B5021G 140-9109	C1899 140-1899	C338 140-7826	C339 140-7827
13213V1700 140-8209	B5023 140-6114	C1923 140-1923	C350F 140-8139	C363 140-7589
13213V5010 140-8389	B5025 140-6106	C1924 140-1924	C365 140-8115	C366 140-8114
13213V5513 140-7827	B5026 140-6872	C1927 140-1927	C368 140-8579	C369 140-8156
13213W0410 140-7828	B5026G 140-9872	C1937 140-1937	C371 140-8039	C371+2 140-8039+2
13213W0500 140-7828	B5027G 140-9715	C1941 140-1941	C372 140-8225	C409 140-3020
13213W0510 140-7828	B5028 140-7663	C1942 140-1942	C420 140-3026	C420+2 140-3026+2
13214L2000 SB1625-59	B5032 140-7546	C1943 140-1943	C439 140-3001	C491 140-3029
13215L2000 SB1500-70	B5033 140-7682	C1946 140-1946	C5001 140-1908	C5001G 140-6587
13215L2010 SB1500-70	B5033G 140-8356	C1946+2 140-1946+2	C5005 140-7946	C5005G 140-9607
13215Y5200 SB1437-60	B5043 140-7669	C1946+5 140-1946+5	C5005G 140-9946	C5006 140-7459
13231H6200 122-1082	B5051A 140-7552	C1947 140-1947	C5006B 140-7907	C5006BG 140-9907
1325740F06 180-1240	B5052A 140-7279	C1953 140-1953	C5006G 140-9459	C5007 140-5604
1325740F07 180-1265	B5062 140-8545	C1954 140-1954	C5007G 140-9604	C5009 140-7298
1325740F16 180-1266	B582 140-8013	C1956 140-1956	C5009G 140-9298	C5011 140-7554
1325740F17 180-1267	B593 140-8219	C1957 140-1957	C5011G 140-9554	C5012 140-5612
13257V5001 180-1264	B596 140-8292	C1962 140-1962	C5012BG 140-9909	C5016 140-7964
F3XY6510B 140-8389	B597 140-8293	C1966 140-1966	C5016BG 140-9850	C5016G 140-9964
OLIVER TRACTOR		B6107 140-6107	C1969 140-1969	C5017 140-7298
106608A 140-1947	B624 140-8577	C1970 140-1970	C5019FG 140-9460	C5020 140-6869
106609A 140-1953	B681 140-8556	C1976 140-1976	C5022 140-6116	C5027 140-7715
106612A 140-1954	B682 140-8547	C1977 140-1977	C503 140-8018	C504 140-7527
106620A 140-1927	B683 140-8560	C2009 140-3039	C5040 140-7679	C5045 140-1527
106623A 140-1923	B8112 140-8112	C2010 140-3038	C5045 140-1527	C506 140-8193
141021 140-1618	C1003 140-6254	C212 140-7499	C506 140-8193	C510 140-8207
159187A 00882A	C115 140-8194	C214 140-7495	C510 140-8207	
159188A 00883	C1342 140-1342	C215 140-7498		
164028A 140-1965	C1421 140-1421	C218 140-7545		
222209 140-1952	C1476 140-1476	C219 140-7542		
224109 140-1924	C1515 140-1515	C222F 140-7359		
736296M91 140-1977	C1544 140-1544	C242 140-7532		
736297M91 140-1976	C1545N 140-1545N	C243 140-7529		
840210M91 140-1620	C1546 140-1546	C271 140-7395		
BR195B 140-1470	C1547N 140-1547N	C280 140-7576		
OPEL		C1577 140-1577	C281 140-7577	
641022 10784	C1600 140-1600	C281+2 140-7577+2		
PEP		C1614 140-1614	C281+2 140-7577+2	
050-1379 160-1379	C1618 140-1618	C286 140-7659		
0508807 160-1144	C1619 140-1619	C290 140-7574		
0512207 160-1233	C1636 140-1636	C2901 140-7574		
059149060 121-1011	C1673 140-1673	C291 140-7575		
059199500 121-1083	C1678 140-1678	C291+2 140-7575+2		
059889500 121-1097	C1680 140-1680	C291+6 140-7575+6		
5005B 140-7908	C1689 140-1689	C291 140-7575		
B1831 140-7999	C1703 140-1703	C292 140-7523		
B1846 140-8256	C1717 140-1717	C292+2 140-7523+2		
B3053 340-1046BR	C1726 140-1726	C297 140-7710		
B349F 140-8558	C1732 140-1732	C3007 140-3007		
B350F 140-8139	C1745 140-1745	C3008 140-3008		
B350VETT 140-8180	C1747 140-1747	C3012 140-3012		
B365 140-8115	C1804 140-1804	C3014 140-3014		
B366 140-8114	C1809 140-1809	C3017 140-3035		
B5005A 140-5607	C1810 140-1810	C3018 140-3036		
B5005BG 140-9908	C1823 140-1823	C3019 140-3019		
	C1825 140-1973	C3021 140-3021		
	C1826 140-1972	C3022 140-3022		
	C1826 140-9972	C3023 140-3023		
	C1826G+3 140-9972+3	C3024 140-3024		
	C1831 140-7999	C3025 140-3025		
	C1832 140-1832	C3028 140-3028		
	C1833 140-1833	C3031 140-3031		
		C3032 140-3032		

Interchange Listing

PEP (Cont'd)					
C510A	140-8207	C680	140-1946	C8011	140-8011
C510A+2	140-8207+2	C681	140-8556	C8011P	140-8011
C511	140-8208	C681+2	140-8556+2	C8016	140-8016
C513	140-8195	C682	140-8547	C8023	140-8023
C514	140-8186	C683	140-8560	C8038	140-8038
C515	140-8211	C6850	140-6850	C8038+2	140-8038+2
C520	140-8212	C6867	140-6867	C8038P+2	140-8038+2
C524	140-8187	C688+1	140-3011	C8040	140-8040
C526	140-8147	C689+1	140-3010	C8112	140-8112
C528	140-7451N	C6896H	140-6896H	C8112+2	140-8112+2
C528+2	140-7451N+2	C6897H	140-6897H	C8113	140-8113
C528+8	140-7662	C6905	140-6905	C8122	140-8122
C531	140-8209	C6913	140-6913	C8128	140-8128
C533	140-7429N	C695	140-3009	C8133	140-8133
C533+2	140-7429N+2	C695+2	140-3009+2	C8134	140-8134
C533+8	140-7661	C696	140-8662	C8160	140-8160
C535	140-8155	C697	140-8659	C8177	140-8177
C536	140-8544	C6990	140-6990	C8178	140-8178
C537	140-8543	C7174	140-7174	C8188	140-8188
C538	140-8158	C7194	140-7194	C8203	140-8203
C539	140-8157	C7194N	140-7194	C8210	140-8210
C540	140-8194	C7197	140-7197	C8217	140-8217
C540+2	140-8194+2	C7198	140-7198	C8220	140-8220
C544	140-8142	C7216	140-7216	C8255	140-8255
C546	140-8324	C7216+2	140-7216+2	C8256	140-8256
C548	140-8291	C7216N	140-7216	C8273	140-8273
C556	140-8016	C7242	140-7242	C8274	140-8274
C557	140-8205	C7248	140-7248	C8274+2	140-8274+2
C558	140-8189	C7255	140-7255	C8274+3	140-8274+3
C559	140-7656	C7255+2	140-7255+2	C8274A	140-8274
C560	140-8038	C7259	140-7259	C8277	140-8277
C5606	140-5606	C7260	140-7260	C829	140-1829
C5607	140-5607	C7272	140-7272	C8319	140-8319
C563	140-8191	C7278	140-7278	C8357	140-8357
C568	140-8156	C7279	140-7279	C8397	140-8397
C571	140-8144	C7336	140-7336	C8407	140-8407
C587	140-8124	C7338	140-7338	C8408	140-8408
C588	140-8580	C7371	140-7371	C8409	140-8409
C589	140-8581	C7373	140-7373	C8476	140-8476
C591	140-8201	C7398	140-7398	C8494	140-8494
C593+2	140-8219+2	C7420	140-7420	C8545	140-8545
C597	140-8293	C7421	140-7421	C8548	140-8548
C603	140-8172	C7431	140-7431	C8552	140-8552
C603+2	140-8172+2	C7444	140-7444	C8555	140-8555
C604	140-8579	C7450	140-7450	C8558	140-8558
C605	140-8578	C7527	140-7527	C8559	140-8559
C607	140-7830	C7546	140-7546	C8564	140-8564
C608	140-8190	C7548	140-7548	C8565	140-8565
C6106	140-6106	C7552	140-7552	C8567	140-8567
C6107	140-6107	C7563	140-7563	C8569	140-8569
C6108	140-6108	C7574+2	140-7574+2	C8572	140-8572
C611	140-8274	C7592	140-7592	C8573	140-8573
C6110	140-6110	C7604	140-7604	C8574	140-8574
C6111	140-6111	C7610	140-7610	C8575	140-8575
C6119	140-6119	C7612	140-7612	C8582	140-8582
C6169	140-8420	C7625	140-7625	C8583	140-8583
C624+2	140-8577	C7663	140-7663	C8584	140-8584
C6254	140-6254	C7663G	140-7663	C8585	140-8585
C6254+10	140-6254+10	C7669	140-7669	C8587	140-8587
C6254+3	140-6254+3	C7681	140-7681	C8590	140-8590
C6254+5	140-6254+5	C7682	140-7682	C8591	140-8591
C627	140-8535	C7689	140-7689	C8592	140-8592
C628	140-8536	C7712	140-7712	C8593	140-8593
C632	140-8218	C7736	140-7736	C8594	140-8594
C637	140-8204	C7813	140-7813	C8658	140-8658
C643	140-8666	C7822	140-7822	C8659	140-8659
C644	140-8668	C7823	140-7823	C8663	140-8663
C645	140-8173	C7847	140-7847	C8670	140-8670
C647	140-8561	C7892	140-7892	C8671	140-8671
C6479	140-6479	C7903	140-7903	C8715	140-8715
C649	140-8554	C7908	140-7908	C880	140-1880
C651	140-8571	C7990	140-7990	C9005	140-7507
C666	140-3046	C7994G	140-7994	C9006	140-7271
C6730	140-6730	C8004	140-8004	C9009	140-7276
		C8008	140-8008	C9106	140-9106
		C8010	140-8010	C9107	140-9107
				C9108	140-9108
				C9108H	140-9108H
				C9110	140-9110
				C9111	140-9111
				C9113	140-9113
				C9114	140-9114
				C9115	140-9115
				C9116	140-9116
				C9119	140-9119
				C9197	140-9197
				C9198	140-9198
				C9204	140-9204
				C9259	140-9259
				C9458	140-9458
				C9458H	140-9458H
				C9460H	140-9460H
				C9523H	140-9523H
				C9546	140-9546
				C9606	140-9606
				C9606U	140-9606U
				C9607	140-9607
				C9607H	140-9607H
				C9610	140-9610
				C9690	140-9690
				C9715	140-9715
				C9716	140-9716
				C9846	140-9846
				C9848	140-9848
				C9867	140-9867
				C9869	140-9869
				C9908	140-9908
				C9964H	140-9964H
				C9964H+2	140-9964H+2
				C9972H	140-9972H
				C9973	140-9973
				C9977	140-9977
				C9977H	140-9977H
				C9977U	140-9977U
				J0313006	01300
				J0316001	10076
				J0316002	10083
				J0316003	10065
				J0316004	10064
				J0320004	10031
				J0320011	10056
				J0361014	10048
				J0361021	10308
				J0361022	10037
				J0390001	10061
				J0390003	10087
				P11360JF	02000R-200
				P11365HP	01935R-160
				P11598100	01766R
				P2054	00375
				P2056	00373
				P2090	00400
				P2091	00399
				P2185	00518
				P2214	01036S
				P2243	00520
				P2267	01500
				P2275	00308
				P2279	00548
				P2298XS	00531S
				P2310	00567
				P2323P	01769R
				P2348	00637
				P2383	01242
				P2401	10218
				P2456	00742
				P2469B	00919
				P2469JF	01770R
				P2470	00988
				P2470HP-C	00988
				P2485	01332
				P2486	00949

Interchange Listing

PIONEER (Cont'd)					
00545N	140-1545N	00899	140-1899	02273	140-7712
00546	140-1546	00906N	140-1906N	03000	140-3000
00547N	140-1547N	00907	140-1907	03001	140-3001
00568	140-1568	00908	140-1908	03006	140-3006
00577	140-1577	00909	140-1909	03007	140-3007
00578	140-1578	00914	140-1515	03007.002	140-3007+2
00579	140-1579	00914	140-1914	03008	140-3008
00593	140-1593	00916	140-1619	03008.002	140-3008+2
00600	140-1600	00918	140-1620	03009	140-3009
00614	140-1614	00919	140-1919	03010	140-3010
00618	140-1618	00923	140-1923	03011	140-3011
00619	140-1619	00924	140-1924	03012	140-3012
00620	140-1620	00927	140-1927	03014	140-3014
00636	140-1636	00932	140-1932	03015	140-3015
00644	140-1644	00937	140-1937	03016	140-3016
00673	140-1673	00941	140-1941	03017	140-3035
00678	140-1678	00942	140-7994	03018	140-3036
00680	140-1680	00943	140-1943	04380	140-7359
00680.005	140-1680+5	00944	140-1944	04404	140-7395
00689	140-1689	00946	140-1946	04406	140-7713
00690	140-1690	00946.002	140-1946+2	04408	140-7714
00697	140-1697	00946.003	140-1946+3	04414	140-7577
00703	140-1703	00946.005	140-1946+5	04416	140-7574
00704	140-1704	00946.010	140-1946+10	04418	140-7575
00711	140-1711	00947	140-1947	04426	140-7545
00717	140-1717	00952	140-1952	04428	140-7499
00723	140-1723	00953	140-1953	04458	140-9557
00726	140-1726	00954	140-1954	04468	140-7659
00732	140-1732	00956	140-1956	04524	140-7523
00733	140-1733	00957	140-1957	04551	140-7710
00740	140-1740	00962	140-1962	04552	140-7828
00745	140-1745	00965	140-1965	04941	140-4941
00747	140-1747	00966	140-1966	04944	140-4944
00758	140-1758	00967	140-8004	05001	140-1908
00803	140-1803	00968	140-1968	05005	140-5607
00804	140-1804	00969	140-1969	05006	140-5606
00809	140-1809	00970	140-1970	05010	140-6119
00810	140-1810	00972	140-1972	05011	140-7554
00813	140-1813	00973	140-1973	05012	140-5612
00814	140-1814	00974	140-1974	05014	140-9197
00817	140-1817	00976	140-1976	05016	140-9964
00821	140-1821	00977	140-1977	05017	140-9113
00823	140-1823	01021	140-1527	05018	140-1907
00829	140-1829	01023	140-1680	05019	140-9460
00830	140-1830	01025	140-1338	05020	140-6869
00832	140-1832	01027	140-1337	05021	140-9109
00832.002	140-1832+2	01265	140-1941	05022	140-6116
00833	140-1833	01310	140-1809	05023	140-9115
00835	140-1717	01342	140-1342	05024	140-9460
00839	140-1839	01547	140-1547N	05026	140-6872
00842	140-7376	01579	140-1881	05027	140-6867
00843	140-7376	01668	140-1747	05028	140-9869
00851	140-1851	01704	140-1704	05031	140-9459
00852	140-1852	01725	140-1966	05033	140-7458
00853	140-1853	01726	140-1726	05040	140-9977
00854	140-1854	01732	140-1732	05041	140-9964
00857	140-1857	01823	140-1823	05077	140-9198
00858	140-1858	01825	140-9973	05103	140-6873
00859	140-1859	01826	140-9972	05104	140-9946
00860	140-1860	01826P	140-1972	05105	140-7562
00865	140-1865	01828	140-9208	05379	140-5379
00872	140-1872	01828	140-1832	05604	140-5604
00873	140-1873	01832	140-1832	05604.002	140-5604+2
00874	140-1874	01833	140-1946	05606	140-5606
00875	140-1875	01839	140-1839	05606U	140-5606U
00878	140-1878	02200	140-1962	05607	140-5607
00880	140-1880	02203	140-6254	05607.002	140-5607+2
00881	140-1881	02223	140-8420	05610	140-5610
00881.002	140-1881+2	02236	140-7994	05611	140-5611
00888	140-1888	02253	140-7661	05612	140-5612
00896	140-1896	02254	140-7662	05745	140-5745
00897	140-1897	02255	140-9705	06053	140-6053
00898	140-1898	02262	140-7714	06105	140-6105
00898.002	140-1898+2	02263	140-7713	06106	140-6106
		02264	140-9715	06107	140-6107
		02265	140-9716	06108	140-6108
				06108U	140-6108U
				06109	140-6109
				06110	140-6110
				06111	140-6111
				06113	140-6113
				06114	140-6114
				06115	140-6115
				06116	140-6116
				06119	140-6119
				06119.002	140-6119+2
				06201	140-6201
				06202	140-6202
				06254	140-6254
				06254.002	140-6254+2
				06254.003	140-6254+3
				06254.005	140-6254+5
				06254.010	140-6254+10
				06452	140-6452
				06469	140-6469
				06470	140-6470
				06479	140-6479
				06523	140-6523
				06529	140-6529
				06546	140-6546
				06587	140-6587
				06730	140-6730
				06730.002	140-6730+2
				06850	140-6850
				06867	140-6867
				06869	140-6869
				06872	140-6872
				06873	140-6873
				06881	140-6881
				06896H	140-6896H
				06897H	140-6897H
				06905	140-6905
				06913	140-6913
				06929	140-6929
				06977	140-6977
				06990	140-6990
				07005	140-9607
				07005 SR	140-8407
				07006	140-9606
				07007	140-9604
				07008	140-9609
				07009	140-9298
				07010	140-9119
				07011	140-9554
				07012	140-9612
				07016	140-9110
				07017	140-9108
				07019	140-9105
				07020	140-9869
				07021	140-9114
				07022	140-9116
				07023	140-9115
				07024	140-9259
				07025	140-9106
				07027	140-9867
				07033	140-9458
				07040	140-9977
				07051	140-9206
				07060	140-9260
				07070	140-9111
				07073	140-7073
				07073H	140-7073H
				07074	140-7074H
				07074H	140-7074H
				07083	140-7083
				07102	140-9560
				07103	140-9873
				07104	140-9523
				07106	140-9584
				07174	140-7174
				07194	140-7194
				07194.002	140-7194+2

Interchange Listing

PIONEER (Cont'd)							
07194.005	140-7194+5	07563	140-7563	08105	140-8105	08273	140-8273
07197	140-7197	07564	140-7564	08112	140-8112	08274	140-8274
07198	140-7198	07574	140-7574	08112.002	140-8112+2	08274.002	140-8274+2
07208	140-7208	07574.002	140-7574+2	08113	140-8113	08274.003	140-8274+3
07216	140-7216	07575	140-7575	08114	140-8114	08277	140-8277
07216.002	140-7216+2	07575.002	140-7575+2	08115	140-8115	08291	140-8291
07216.005	140-7216+5	07575.006	140-7575+6	08118	140-8118	08292	140-8292
07242	140-7242	07576	140-7576	08122	140-8122	08293	140-8293
07242.005	140-7242+5	07577	140-7577	08124	140-8124	08319	140-8319
07248	140-7248	07577.002	140-7577+2	08128	140-8128	08324	140-8324
07255	140-7255	07581	140-7714	08133	140-8133	08347	140-8347
07255.002	140-7255+2	07582	140-7713	08134	140-8134	08347.002	140-8347+2
07259	140-7259	07588	140-7588	08134.010	140-8134+10	08348	140-8348
07260	140-7260	07589	140-7589	08139	140-8139	08348.002	140-8348+2
07264	140-7264	07592	140-7592	08142	140-8142	08356	140-8356
07271	140-7271	07604	140-7604	08143	140-8143	08357	140-8357
07271U	140-7271U	07610	140-7610	08144	140-8144	08383	140-8383
07272	140-7272	07625	140-7625	08147	140-8147	08388	140-8388
07272.003	140-7272+3	07656	140-7656	08155	140-8155	08389	140-8389
07276	140-7276	07659	140-7659	08156	140-8156	08397	140-8397
07277	140-7277	07661	140-7661	08157	140-8157	08407	140-8407
07278	140-7278	07662	140-7662	08158	140-8158	08408	140-8408
07279	140-7279	07663	140-7663	08160	140-8160	08409	140-8409
07291	140-7291	07669	140-7669	08161	140-8161	08418	140-8418
07298	140-7298	07679	140-7679	08168	140-8168	08419	140-8419
07336	140-7336	07681	140-7681	08169	140-8169	08420	140-8420
07337	140-7337	07682	140-7682	08170	140-8170	08476	140-8476
07338	140-7338	07689	140-7689	08171	140-8171	08485	140-8485
07338.002	140-7338+2	07710	140-7710	08172	140-8172	08486	140-8486
07357	140-7357	07712	140-7712	08172.002	140-8172+2	08494	140-8494
07359	140-7359	07712.002	140-7712+2	08173	140-8173	08531	140-8531
07371	140-7371	07713	140-7713	08177	140-8177	08535	140-8535
07372	140-7372	07714	140-7714	08178	140-8178	08536	140-8536
07373	140-7373	07714.002	140-7714+2	08180	140-8180	08543	140-8543
07376	140-7376	07715	140-7715	08180.002	140-8180+2	08544	140-8544
07395	140-7395	07736	140-7736	08186	140-8186	08545	140-8545
07398	140-7398	07813	140-7813	08187	140-8187	08547	140-8547
07408	140-7408	07822	140-7822	08188	140-8188	08548	140-8548
07420	140-7420	07822.002	140-7822+2	08189	140-8189	08552	140-8552
07421	140-7421	07825	140-7825	08190	140-8190	08554	140-8554
07425	140-7425	07826	140-7826	08191	140-8191	08555	140-8555
07429N	140-7429N	07827	140-7827	08193	140-8193	08555.002	140-8555+2
07429N.002	140-7429N+2	07828	140-7828	08193.002	140-8193+2	08556	140-8556
07431	140-7431	07830	140-7830	08194	140-8194	08556.002	140-8556+2
07444	140-7444	07847	140-7847	08194.002	140-8194+2	08558	140-8558
07447	140-7447	07860	140-7860	08195	140-8195	08559	140-8559
07448	140-7448	07873	140-7873	08200	140-8200	08560	140-8560
07450	140-7450	07876	140-7876	08201	140-8201	08561	140-8561
07451N	140-7451N	07892	140-7892	08202	140-8202	08562	140-8562
07451N.002	140-7451N+2	07903	140-7903	08203	140-8203	08564	140-8564
07456	140-7456	07907	140-7907	08204	140-8204	08565	140-8565
07457	140-7457	07908	140-7908	08205	140-8205	08567	140-8567
07458	140-7458	07946	140-7946	08207	140-8207	08569	140-8569
07459	140-7459	07964	140-7964	08207.002	140-8207+2	08571	140-8571
07460	140-7460	07990	140-7990	08208	140-8208	08572	140-8572
07476	140-7476	07994	140-7994	08209	140-8209	08573	140-8573
07495	140-7495	07994.002	140-7994+2	08210	140-8210	08574	140-8574
07498	140-7498	07999	140-7999	08210.002	140-8210+2	08575	140-8575
07499	140-7499	08004	140-8004	08211	140-8211	08577	140-8577
07507	140-7507	08007	140-8007	08211.002	140-8211+2	08578	140-8578
07523	140-7523	08008	140-8008	08212	140-8212	08579	140-8579
07523.002	140-7523+2	08009	140-8010	08213	140-8213	08580	140-8580
07527	140-7527	08010	140-8010	08216	140-8216	08581	140-8581
07528	140-7528	08011	140-8011	08217	140-8217	08582	140-8582
07529	140-7529	08013	140-8013	08218	140-8218	08583	140-8583
07532	140-7532	08016	140-8016	08219	140-8219	08584	140-8584
07542	140-7542	08017	140-8017	08219.002	140-8219+2	08585	140-8585
07545	140-7545	08018	140-8018	0822	140-7174	08586	140-8586
07546	140-7546	08021	140-8021	08220	140-8220	08587	140-8587
07548	140-7548	08023	140-8023	08223	140-8223	08590	140-8590
07550	140-7550	08024	140-8024	08233	140-8233	08591	140-8591
07552	140-7552	08038	140-8038	08233.002	140-8233+2	08592	140-8592
07554	140-7554	08038.002	140-8038+2	08247	140-8247	08592.002	140-8592+2
07562	140-7562	08039	140-8039	08248	140-8248	08593	140-8593
		08039.002	140-8039+2	08255	140-8255	08593.002	140-8593+2
		08040	140-8040	08256	140-8256	08594	140-8594

Interchange Listing

PIONEER (Cont'd)					
08658	140-8658	09872	140-9872	OS806	122-1199
08659	140-8659	09873	140-9873	OS810	122-1074
08662	140-8662	09907	140-9907	OS812	122-1067
08663	140-8663	09908	140-9908	OS821	122-1077
08666	140-8666	09909	140-9909	OS823VT	122-1203
08667	140-8666	09946	140-9946	OS824VT	122-1073
08668	140-8668	09964	140-9964	OS827VT	122-1198
08669	140-8668	09964H	140-9964H	OS830VT	122-1069
08670	140-8670	09964H.002	140-9964H+2	OS830VT	122-1069
08671	140-8671	09972	140-9972	OS840VT	122-1206
08673	140-8673	09972.003	140-9972+3	OS844VT	122-1330
08674	140-8674	09972H	140-9972H	OS893	122-1007
08679	140-8679	09972U	140-9972U	OS903PA	122-1036
09105	140-9105	09973	140-9973	OS905PA	122-1033
09105U	140-9105U	09973U	140-9973U	OS907	122-1005
09106	140-9106	09977	140-9977	OS910PA	122-1045
09107	140-9107	09977H	140-9977H	OS911PA	122-1035
09108	140-9108	09977U	140-9977U	OS915PA	122-1038
09108H	140-9108H	451140	231-1000	OS916PA	122-1038
09108U	140-9108U	51047	140-1968	OS921PA	122-1031
09109	140-9109	51668	140-6990	OS925	122-1047
09110	140-9110	51836	140-7876	OS925PA	122-1047
09111	140-9111	810010	360-1010	OS928PA	122-1046
09111U	140-9111U	810107	360-1012	OS930	122-1059
09112	140-9112	810108	360-1013	OS935	122-1052
09113	140-9113	810207	360-1016	OS936	122-1053
09114	140-9114	817104	361-1010	OS937	122-1006
09115	140-9115	817108	361-1013	OS938	122-1075
09116	140-9116	817110	361-1014	OS950PA	122-1039
09119	140-9119	851200	220-1018	OS951PA	122-1048
09197	140-9197	MRK396	181-1057	OS961	122-1082
09198	140-9198	OS1038	122-1017	OS962	122-1263
09204	140-9204	OS1045	122-1268	OS964	122-1086
09205	140-9205	OS1050	122-1011	OS967	122-1130
09206	140-9206	OS1053	122-1189	OS971	122-1125
09208	140-9208	OS1054	122-1014	OS978	122-1089
09259	140-9259	OS1055	122-1225	OS981	122-1127
09260	140-9260	OS1062	122-1009	OS981PA	122-1127
09298	140-9298	OS1065	122-1267	OS982	122-1088
09458	140-9458	OS1068	122-1015	OS985	122-1139
09458H	140-9458H	OS2100	122-1205	OS994PA	122-1150
09459	140-9459	OS2101	122-1215	OS995PA	122-1152
09460	140-9460	OS2102	122-1216	OS996PA	122-1114
09460H	140-9460H	OS2104	122-1226	PC125	220-1074
09460H.002	140-9460H+2	OS2105	122-1449	PC126	220-1074
09523	140-9523	OS2106	122-1250	PC716	121-1039
09523H	140-9523H	OS2107	122-1252	PC743	121-1001
09546	140-9546	OS2108	122-1260	PC746	121-1000
09554	140-9554	OS2109	122-1269	PC746HD	121-1000
09557	140-9557	OS2110	122-1276	PC766	121-1014
09560	140-9560	OS2111	122-1288	PC766HD	121-1014
09584	140-9584	OS2112	122-1314	PF165	121-1065
09604	140-9604	OS2113	122-1315	PF206	121-1084
09606	140-9606	OS2114	122-1316	PF213	121-1026
09606U	140-9606U	OS2115	122-1324	PF217	121-1018
09607	140-9607	OS2116	122-1326	PF221	121-1049
09607H	140-9607H	OS2117	122-1327	PF222	121-1069
09607U	140-9607U	OS2118	122-1329	PF224	121-1020
09609	140-9609	OS2119	122-1332	PF225	121-1051
09610	140-9610	OS2120	122-1333	PF237	121-1052
09611	140-9611	OS2121	122-1345	PF462	149-1001
09612	140-9612	OS231PA	122-1040	PF555	121-1003
09690	140-9690	OS240B	122-1043	PF555A	121-1003
09705	140-9705	OS250	122-1233	PF555AHD	121-1003
09705U	140-9705U	OS252	122-1075	PF555HD	121-1003
09715	140-9715	OS253	122-1063	PF613	121-1007
09716	140-9716	OS450	122-1037	PF613A	121-1007
09846	140-9846	OS450PA	122-1037	PF613AHD	121-1007
09846U	140-9846U	OS522PA	122-1032	PF613HD	121-1007
09848	140-9848	OS530PA	122-1041	PF614	121-1011
09850	140-9850	OS535	122-1052	PF614HD	121-1011
09867	140-9867	OS642PA	122-1041	PF619	121-1083
09867U	140-9867U	OS713	122-1003	PF620	121-1019
09869	140-9869	OS766PA	122-1034	PG217	121-1021
		OS780PA	122-1051	PG309	121-1017
		OS805	122-1200	PG310	121-1002
				PG510	121-1072
				PM811	121-1009
				PR045	192-1377
				PR045A	192-1378
				PR103B	190-1433
				PR105	192-1229
				PR152	190-1237
				PR155	190-1342
				PR201	190-1370
				PR230	192-1504
				PR230A	192-1503
				PR274	190-1425
				PR279	192-1321
				PR280	192-1399
				PR281	192-1409
				PR281B	192-1409U60
				PR282	192-1462
				PR301	190-1429
				PR302	190-1421
				PR305	190-1385
				PR306	192-1322
				PR307	190-1411
				PR308	190-1396
				PR309	190-1395
				PR309B	190-1478
				PR310	190-1417
				PR311	190-1351
				PR311A	190-1351+60
				PR311B	190-1351U60
				PR312	190-1426
				PR313	190-1327
				PR313B	190-1327U54
				PR314	190-1349
				PR315	190-1328
				PR317	192-1330
				PR318	192-1335
				PR321	190-1408
				PR323	190-1403
				PR324	190-1450
				PR326	192-1381
				PR327	190-1384
				PR333	190-1440
				PR335	190-1433
				PR335A	192-1442
				PR337	190-1435
				PR339	190-1443
				PR342	192-1444
				PR343	190-1438
				PR344	192-1446
				PR345	190-1449
				PR347	192-1453
				PR34B	192-1331
				PR353	190-1454
				PR356	190-1522
				PR358	190-1489
				PR35AB	190-1269
				PR365	190-1489
				PR366	190-1473
				PR367	190-1500
				PR371	190-1502
				PR372	192-1480
				PR373	192-1485
				PR374	192-1484
				PR375	192-1481
				PR376	192-1482
				PR378	190-1455
				PR379	192-1339
				PR380	192-1338
				PR384	192-1491
				PR399	190-1529
				PR434	190-1511
				PR435	190-1509
				PR437	192-1442
				PR438	190-1532
				PR44	192-1337
				PR447	190-1531

Interchange Listing

PIONEER (Cont'd)					
PR44A	192-1336	RK889X	181-1035	RV1289	160-1079
PR454	192-1506	RM1741	184-1035	RV1291	160-1217
PR456	190-1427	RM1764	183-1022	RV1292	160-1218
PR460	192-1505	RM341	184-1038	RV1293	160-1213
PR465	190-1524	RM342	183-1017	RV1294	160-1207
PR498	192-1511	RM344	183-1024	RV1296	160-1304
PR499	192-1512	RM345	183-1032	RV1298	160-1303
PR80	190-1222	RM359	183-1026	RV1299	160-1080
PR81	190-1280	RM371	184-1040	RV1301X	160-1083
PX803	121-1006	RM379	184-1038	RV1303	160-1085
PX811	121-1023	RM382	184-1020	RV1304	160-1086
PX813	121-1034	RM397	183-1027	RV1313	160-1307
PX816	121-1030	RM403	184-1023	RV1317	160-1047
PX819	121-1047	RM406	183-1014	RV1332	160-1305
PX822	121-1010	RM4061	183-1028	RV1333	160-1186
R1026	180-1264	RM412	187-1014	RV1368	160-1096
R1805	180-1007	RM416	184-1025	RV1370	160-1097
R1807	180-1008	RM417	183-1015	RV1374	160-1099
R1830	180-1326	RM418	184-1032	RV1378	160-1409
R1850	180-1028	RM657	184-1022	RV1388	160-1103
R1868	180-1283	RM657A	184-1022	RV1398	160-1262
R346	180-1228	RM659	184-1039	RV1399	160-1261
R358	180-1239	RM673	184-1034	RV1403	160-1216
R374	180-1229	RM688	183-1030	RV1405	160-1106
R410	180-1040	RM689	183-1020	RV1408	160-1252
R411	180-1041	RS668C	186-1090	RV1409	160-1253
R501	180-1037	RS716	186-1100	RV1420	160-1201
R610	180-1029	RV1002X	160-1001	RV1446	160-1238
R650	180-1304	RV1009A	160-1003	RV1450	160-1236
R660	180-1238	RV1011	160-1004	RV1455	160-1241
R685	180-1237	RV1012	160-1191	RV1457	160-1318
R690	180-1059	RV1014	160-1177	RV1529	160-1272
R700	180-1004	RV1015	160-1005	RV1537	160-1271
R711L	180-1055	RV1016	160-1006	RV1539	160-1252
R711R	180-1056	RV1016X	160-1147	RV1558	160-1112
R712L	180-1077	RV1038X	160-1009	RV1615	160-1408
R712R	180-1078	RV1041X	160-1011	RV1680	160-1266
R713L	180-1079	RV1047	160-1013	RV1684	160-1264
R713R	180-1080	RV1050	160-1016	RV1710	160-1383
R740	180-1236	RV1061	160-1018	RV1943X	160-1407
R819	180-1012	RV1062	160-1424	RV220B	160-1286
R888	180-1233	RV1066	160-1019	RV221E	160-1267
R889	180-1234	RV1070	160-1020	RV2215	160-1352
R903	180-1317	RV1082	160-1023	RV221B	160-1285
RK1868B	181-1061	RV1086	160-1024	RV2220	160-1342
RK1868X	181-1061	RV1088X	160-1227	RV2221	160-1343
RK346	181-1049	RV1096	160-1025	RV2225	160-1483
RK346B	181-1011	RV1125	160-1031	RV2230	160-1426
RK346X	181-1011	RV1135	160-1038	RV2232	160-1378
RK374	181-1014	RV1149	160-1041	RV2300	160-1425
RK374X	181-1014	RV1158	160-1226	RV2302	160-1504
RK375X	181-1012	RV1165	160-1219	RV2451	160-1444
RK377B	181-1044	RV1166	160-1204	RV2458	160-1458
RK383X	181-1025	RV1171	160-1176	RV2462	160-1360
RK395	181-1020	RV1173	160-1184	RV2470	160-1396
RK395X	181-1020	RV1175	160-1044	RV2471	160-1397
RK396X	181-1057	RV1178	160-1190	RV2476	160-1437
RK400X	181-1021	RV1180	160-1429	RV2480	160-1450
RK405B	181-1028	RV1189	160-1187	RV2484	160-1366
RK407X	181-1032	RV1193	160-1047	RV2487	160-1411
RK409X	181-1017	RV1195X	160-1049	RV2498	160-1443
RK419X	181-1016	RV1200	160-1482	RV2522	160-1431
RK430X	181-1020	RV1201	160-1054	RV268	160-1288
RK550	181-1059	RV1202	160-1055	RV2811	160-1485
RK5506	181-1059	RV1216	160-1171	RV356	160-1604
RK550X	181-1059	RV1218	160-1064	RV400	160-1223
RK660X	181-1041	RV1220X	160-1233	RV414	160-1220
RK674	181-1034	RV1239	160-1228	RV433	160-1114
RK685	181-1040	RV1240	160-1198	RV467	160-1296
RK819X	181-1018	RV1245	160-1203	RV480	160-1223
RK881B	181-1060	RV1250	160-1071	RV495	160-1401
RK888X	181-1034	RV1258	160-1072	RV497	160-1433
RK889	181-1035	RV1265	160-1363	RV502	160-1503
RK889B	181-1035	RV1268	160-1076	RV529	160-1115
		RV1278	160-1378	RV543	160-1287
		RV1285	160-1490	RV554	160-1289
				RV558	160-1116
				RV575	160-1117
				RV576	160-1118
				RV577	160-1119
				RV611	160-1120
				RV619	160-1121
				RV646	160-1300
				RV662	160-1494
				RV672	160-1122
				RV677X	160-1124
				RV685X	160-1125
				RV695	160-1295
				RV696	160-1126
				RV715	160-1127
				RV718X	160-1206
				RV726	160-1290
				RV757	160-1205
				RV763	160-1225
				RV765	160-1130
				RV769	160-1186
				RV778	160-1131
				RV786X	160-1132
				RV793	160-1301
				RV794	160-1291
				RV798	160-1006
				RV807	160-1134
				RV812	160-1135
				RV813	160-1136
				RV814	160-1137
				RV815X	160-1138
				RV816X	160-1139
				RV817	160-1179
				RV863	160-1140
				RV864X	160-1141
				RV867	160-1142
				RV869	160-1143
				RV880X	160-1144
				RV881X	160-1145
				RV884X	160-1147
				RV886	160-1148
				RV887X	160-1206
				RV891X	160-1149
				RV901X	160-1150
				RV902	160-1151
				RV906	160-1152
				RV907X	160-1154
				RV909X	160-1175
				RV913X	160-1132
				RV922	160-1156
				RV923	160-1157
				RV935X	160-1159
				RV936	160-1041
				RV939	160-1185
				RV943X	160-1144HP
				RV944	160-1196
				RV945	160-1197
				RV948	160-1192
				RV950	160-1178
				RV991	160-1161
				RV994	160-1162
				RV999	160-1164
				S1025	181-1049
				S1027	181-1048
				S112B	220-1014
				S116	220-1008
				S135	220-1000
				S153	220-1009
				S177	220-1016
				S181	220-1021
				S280	220-1023
				SS555HD	121-1003
				SS613HD	121-1007
				SS746HD	121-1000
				SS766HD	121-1014
				T580	231-1001
				T581	231-1002

Interchange Listing

PIONEER (Cont'd)							
VE1077	00400	VE2317	01710	VI2054	10070	EV121A	10548
VE1077+15	00400+15	VE2475	10237	VI2060	01557	EV122	10813
VE1077+3	00400+3	VE2517	10282	VI2098	10137	EV124	10724
VE1349	01265	VE2521	10323	VI2114	01536	EV125	10625
VE1355	01242	VE2531	10271	VI2124	01505	EV126	10501
VE1383	00559S	VE2553	10256	VI2124+15	01505+15	EV130	10535A
VE1519	01242	VE4322	10308	VI2140	02057	EV136	10809
VE1567	00742	VE631	10037	VI2144	01555	EV138	10501
VE1585	01266	VE633	10036S	VI2146	01553	EV140	01921
VE1585+15	01266+15	VE781	00121	VI2192	01538	EV143	01713
VE1587	01358	VI1078	00399	VI2202	10268	EV145	01448
VE1587+15	01358+15	VI1078+15	00399+15	VI2216	10141	EV146	01552
VE1589	01329	VI1350	00567	VI2274	01711	EV148	01554
VE1589+15	01329+15	VI1350+15	00567+15	VI2436	10236	EV149	01742
VE1611	00976	VI1382	00560	VI2464	10322	EV150	01731
VE1635	01332	VI1418	00637	VI2488	10281	EV151	02009
VE1649	00919	VI1418+15	00637+15	VI2518	10255	EV158	01992
VE1651	01106	VI1436	01057S	VI4026	10076	EV161	13348
VE1655	00996S	VI1476	00696	VI624	10307	EV162	13200
VE1669	01000	VI1476+15	01195+15	VI632	10048	EV164	02035
VE1669+15	01000+15	VI1476+3	01195+3	VI634	10015	EV167	13191
VE1717	01156	VI1476A	01195	VI636	10031	EV168	13256
VE1717+15	01156+15	VI1584	01268	VI782	00122	EV174	13287
VE1719	01312S	VI1586	00963	VT2011	VL89	EV176	13191
VE1761	01237	VI1588	00938	VT2012	VL83	EV187	13191
VE1761+15	01237+15	VI1588+15	00938+15	VT2056	VL109	EV206	10193
VE1765	01169	VI1628	00947	VT2083	VL9	EV209	10196
VE1765+15	01169+15	VI1634	01120	VT2089	VL88	EV216	13173
VE1769	01133S	VI1634+15	01120+15	VT2095	VL94	EV217	10435
VE1771	01135	VI1636	00949	VT2102	VL86	EV218	13173
VE1771+15	01135+15	VI1644	01002	VT2104	VL114	EV219	10198A
VE1771+3	01135+3	VI1650	00988	VT2105	VL87	EV223	10544
VE1779	01294S	VI1652	01107	VT2148A	VL115	EV225	10207
VE1805	01325	VI1652+15	01107+15	VT6007	VL141	EV230	10413
VE1807	01257	VI1656	00997	VT764	VL149	EV242	13359
VE1813	01322	VI1670	01001	VT812	VL8	EV245	10542
VE1815	01320	VI1732	01137	VT817	VL37	EV253	10546
VE1817	01324	VI1732+15	01137+15	VT846	VL5	EV263	10779
VE1819	01271	VI1756	01152	VT892	VL21	EV280	10123
VE1819+15	01271+15	VI1760	01238	VT900	VL35	EV282	10437
VE1821	01597	VI1760+15	01238+15	VT937	VL31	EV287	10779
VE1831	01327	VI1764	01170	VT940	VL146	EV290	10191
VE1833	01300	VI1764+15	01170+15	VT941	VL135	EV292	10414
VE1835	01354	VI1776	01186	VT945	VL32	EV295	10525
VE1837	01361	VI1778	01273	VT951	VL49	EV300	10220S
VE1849	01326	VI1800	01161	VT969	VL73	EV303	10104
VE1853	01441	VI1804	01260	VT976	VL64	EV305	10221S
VE1863	10060S	VI1806	01258	ROCK PRODUCTS			
VE1875	01367	VI1812	01323				
VE1875+15	01367+15	VI1814	01598	ERA149	180-1320	EV309	02250S
VE1877	01387	VI1816	01285	ERA607	180-1266	EV310	10523
VE1889	01394	VI1820	01272	ERA607A	180-1267	EV3104	01807
VE1891	01135	VI1820+15	01272+15	EV101	10146S	EV311	10521
VE1897	01448	VI1822	01362	EV104	10497	EV3111	01261S
VE1901	01451	VI1830	01328	EV105	10142	EV3112	01702
VE1911	01814	VI1830+15	01328+15	EV107	10128A	EV3114	01480
VE1923	01192	VI1830+3	01328+3	EV108	10144	EV3116	01710
VE1923+15	01192+15	VI1836	01357	EV110	01919	EV3117	01811
VE1923+3	01192+3	VI1852	01442	EV1105	02036	EV312	01950
VE1991	01135	VI1862	10061	EV1119	01556	EV3125	01192
VE2049	01389	VI1874	01380	EV1122	01917	EV3125A	01809
VE2099	10138	VI1874+15	01380+15	EV1130	01715	EV3125B	01294S
VE2141	01480	VI1876	01388	EV1135	01670	EV313	13332SN
VE2141+15	01480+15	VI1880	01382	EV1136	01905	EV3130	02058
VE2143	02058	VI1888	01395	EV1137	01994	EV3132	01727
VE2147	01554	VI1896	01449	EV1153	01399	EV3138	01999
VE2149	01552	VI1900	01452	EV1153B	01417	EV3139	13082
VE2165	10146S	VI1922	01393	EV1153E	01419	EV314	02010S
VE2189	10069	VI1922+15	01393+15	EV1160	02220	EV3140	13046
VE2193	01537	VI1924	01193	EV1162	13207	EV3143	01735
VE2197	10106	VI1924+3	01193+3	EV1165	02015	EV3149	10116
VE2199	10330A	VI1984	01432	EV1180	01782	EV3152	01706
VE2203	10269	VI1992	00924	EV1180	01782	EV3158	02054
VE2283	01535	VI2038	01569	EV119	10499	EV3164	13243
		VI2044	10145	EV120	10817	EV3165	01935
		VI2052	10107	EV121	10549	EV3181	02126S
						EV319	02040S

Interchange Listing

ROCK PRODUCTS (Cont'd)							
EV3195	01780S	EV624A	10793S	HBK315	220-1092	HS305	230-2041
EV320	02173	EV625	02182S	HBK3169	220-1103	HS310	230-2116
EV325	02248S	EV627	13234	HBK3180	220-1024	HS3101	230-2028
EV328	01737	EV630	10285S	HBK3181	220-1084	HS311	230-2117
EV329	01903	EV632	10538	HBK3195	220-1010	HS3114	230-2025
EV332	01937	EV635	13214	HBK322	220-1025	HS3117	230-2132
EV337	01591	EV638	13078	HBK324	220-1025	HS3132	230-2022
EV350	10503	EV641	10536	HBK328	220-1025	HS314	230-2135
EV353	10740	EV644	13238	HBK330	220-1088	HS3146	230-2025
EV402	10060S	EV656	13221	HBK337	220-1015	HS3148	230-2128
EV407	02195	EV657	13080	HBK411	220-1094	HS3149	230-2020
EV408	10237	EV662	13221	HBK4113	220-1033	HS3159	230-2129
EV409	10163	EV670	10229	HBK4120	220-1076	HS319	230-2159
EV4104	01537	EV672	10229	HBK413	220-1121	HS325	230-2146
EV4107	01504	EV673	10795	HBK4135	220-1023	HS328	230-2021
EV4109	02246	EV708	10300	HBK4137	220-1005	HS329	230-2115
EV411	01729	EV710	10807	HBK4138	220-1096	HS330	230-2115
EV4113	01135	EV710A	13140S	HBK4184	220-1071	HS332	230-2073
EV4113A	01135S	EV718	13203S	HBK420	230-2009	HS335	230-2161
EV412	01788	EV720	13203S	HBK4200	220-1109	HS350	230-2094
EV4120	01791	EV800	10805S	HBK421	220-1016	HS405	230-2086
EV4125	01545	EV800A	10803S	HBK425	220-1028	HS4107	230-2017
EV413	01746	EV900	10330A	HBK428	220-1106	HS4116	230-2016
EV4131	01708	EV902	10037	HBK447	220-1006	HS4123	230-2124
EV4137	01535	EV903	10311	HBK526	220-1026	HS412L	230-2130L
EV4139	02047	EV916	02178S	HBK638	220-1117	HS412R	230-2130R
EV4147	01698	EV918	10106	HBK708	220-1047	HS413	230-2082
EV4149	01925	EV920	10315	HBK809	220-1108	HS4150L	230-2052L
EV415	10153	EV922	10799	HBK900	220-1113	HS4150R	230-2052R
EV4162	02193	EV925	10177	HBK903A	220-1059	HS422L	230-2114L
EV4182	01877	EV928	13366	HBK907	220-1060	HS422R	230-2114R
EV4185	02265	EV935	10138	HBK909	220-1048	HS425	230-2089
EV4186	01547	EV937	10323	HBK920	220-1035	HS427	230-2154
EV4198	13226	EV939	10474	HBK935	220-1050	HS428L	230-2137L
EV420	01936	EV940	10420	HBK940	220-1060	HS428R	230-2137R
EV4200	01786	EV942	10338S	HBK943	220-1119	HS435	230-2144
EV4205	01242	EV943	10736	HBK950	220-1052	HS439	230-2131
EV421	10386	EV945	10507	HBK957	220-1043	HS444	230-2048
EV422	10388	EV946	10781	HS101	230-2005	HS450	230-2053
EV425	10563	EV949	02240	HS105	230-2001	HS451	230-2050
EV427	10815	EV950	10340A	HS108	230-2004	HS490	230-2011
EV428	01914	EV954	13209	HS1100	230-2125	HS500	230-2031
EV429	13039	EV957	10474	HS1105	230-2133	HS525	230-2032
EV432	02007	EV958	10306S	HS1107L	230-2118L	HS526	230-2030
EV443	10159	EV960	10553S	HS1107R	230-2118R	HS602	230-2060
EV444	10159	EV965	10306S	HS112	230-2120	HS605	230-2058
EV447	01597	EV968	13087	HS1123	230-2121	HS607	230-2059
EV448	01744	EV969	13089S	HS1128	230-2121	HS614	230-2157
EV449	02007	EV971	13274S	HS113	230-2120	HS616	230-2015
EV450	10244	EV972	13274S	HS1135L	230-2008L	HS618	230-2015
EV475	10248	HBK1100	220-1098	HS1135R	230-2008R	HS638	230-2139
EV480	13226	HBK1105	220-1097	HS1139	230-2110	HS640	230-2056
EV482	13226	HBK1123	220-1091	HS114	230-2085	HS652	230-2067
EV489	02197	HBK1135	220-1017	HS1145L	230-2072L	HS653	230-2153
EV490	10235	HBK1136	220-1095	HS1145R	230-2072R	HS654	230-2068
EV500	10302	HBK1145	220-1030	HS119	230-2081	HS710	230-2156
EV520	10787S	HBK1160	220-1105	HS120	230-2136	HS715	230-2156
EV522	13277	HBK119	220-1046	HS123	230-2149	HS900	230-2066
EV526	10170	HBK123	220-1114	HS125	230-2006	HS903	230-2069
EV528	10787S	HBK125	220-1021	HS126	230-2007	HS905	230-2018
EV529	02040S	HBK140	220-1077	HS135	230-2105	HS907	230-2063
EV530	10517	HBK143	220-1086	HS140L	230-2126L	HS917	230-2143
EV532	13198	HBK149	220-1074	HS140R	230-2126R	HS920	230-2033
EV535	13205	HBK150	220-1072	HS145	230-2003	HS933	230-2100
EV536	13205	HBK151	220-1083	HS149	230-2002	HS935	230-2107
EV602	10269	HBK310	220-1118	HS150	230-2083	HS939	230-2142
EV603	10271	HBK3101	220-1018	HS151	230-2095	HS940	230-2065
EV605	10256	HBK311	220-1116	HS153	230-2080	HS942	230-2042
EV607	10274S	HBK3112	220-1080	HS155	230-2149	HS943	230-2147
EV608A	10036S	HBK3116	220-1024	HS162	230-2158	HS945	230-2097
EV616	10282	HBK3125	220-1104	HS205	230-2038	HS948	230-2147
EV616A	10282S	HBK3131	220-1085	HS206	230-2039	HS950L	230-2026L
EV624	10227S	HBK314	220-1100	HS217	230-2123	HS950R	230-2026R
		HBK3143	220-1093	HS219	230-2122	HS965L	230-2127L
		HBK3146	220-1031	HS290	230-2037	HS965R	230-2127R
		HBK3147	220-1122	HS300	230-2045	IRA149	180-1321

Interchange Listing

ROCK PRODUCTS (Cont'd)							
IRA607	180-1240	IV3111	01107	IV448	01743	IV958	10305
IRA607A	180-1265	IV3112	01703	IV449	02006	IV960	10552
IV101	10145	IV3114	01481	IV450	10243	IV968	13086
IV104	10495	IV3116	01711	IV475	10247	IV969	13088
IV104A	10496	IV3117	01929	IV480	13225	IV971	13273
IV105	10141	IV3117A	01810	IV482	13225	LIF101	VL141
IV107	10126A	IV312	01949	IV489	02196	LIF107	VL135
IV108	10143	IV3125	01195	IV490	10234	LIF1107	VL106
IV1100	01918	IV3125A	01393	IV500	10103	LIF1122	VL89
IV1119	01557	IV3125B	01193	IV520	10786	LIF1165	VL554
IV1122	01916	IV313	13331	IV522	13276	LIF1166	VL554
IV1130	01714	IV3130	02057	IV525	10172	LIF122	VL149
IV1135	01671	IV3132	01726	IV526	10169	LIF129	VL149
IV1136	01904	IV3138	01998	IV528	10786	LIF140	VL171
IV1137	01993	IV3139	13211	IV529	10784	LIF145	VL87
IV1153	00938	IV3139A	13081	IV530	10516	LIF150	VL173
IV1160	02103	IV314	01997	IV532	13197	LIF3022	VL73
IV1165	02014	IV3140	13179	IV535	13210	LIF310	VL123
IV1180	01781	IV3143	01858	IV536	13204	LIF3101	VL37
IV119	10498	IV3149	10213	IV602	10268	LIF3104	VL115
IV120	10816	IV3149A	10117	IV605	10255	LIF3114	VL94
IV121	10547	IV3152	01739	IV606	10270	LIF312	VL175
IV122	10812	IV3152A	01707	IV607	10273	LIF3120	VL571
IV124	10723	IV3158	02053	IV608	10056	LIF3132	VL116
IV125	10624	IV3160	02000	IV608A	10015	LIF3149	VL109
IV126	10500	IV3165	01934	IV614	10224	LIF3181	VL163
IV129	13047	IV3181	02101	IV616	10281	LIF3195	VL114
IV130	10534A	IV319	10784	IV624	10226	LIF328	VL138
IV136	10808	IV3195	01484	IV624A	10792	LIF408	VL146
IV138	10500	IV320	02172	IV625	02181	LIF411	VL107
IV140	01920	IV325	02247	IV627	13233	LIF4120	VL100
IV143	01901	IV328	01736	IV630	10284	LIF4137	VL35
IV143A	01712	IV329	01902	IV632	10537	LIF4173	VL178
IV145	01449	IV332	01941	IV633	10015	LIF4179	VL178
IV146	01553	IV337	01592	IV635	13213	LIF420	VL113
IV148	01555	IV350	10502	IV638	13077	LIF421	VL9
IV149	01741	IV353	10739	IV640	10224	LIF422	VL150
IV150	01730	IV402	10061	IV641	10224	LIF428	VL176
IV151	02008	IV407	02194	IV644	13237	LIF447	VL83
IV158	01991	IV408	10236	IV656	13220	LIF510	VL120
IV161	13347	IV409	10162	IV657	13079	LIF800E	VL524
IV162	13199	IV4104	01538	IV662	13220	LIF800I	VL523
IV164	02034	IV4107	01505	IV670	10228	RA125	180-1207
IV167	13190	IV4109	02245	IV673	10794	RA140	180-1322
IV174	13286	IV411	01728	IV708	10299	RA145	180-1004
IV176	13190	IV4113	01328	IV710	10806	RA150	180-1324
IV201	10078	IV412	01787	IV710A	13139S	RA422	180-1008
IV206	10192	IV4120	01789	IV718	13201	RA616	180-1264
IV209	10195	IV4120A	01790	IV720	13201	RA900	180-1326
IV212	10122	IV4125	01546	IV800	10804S	VG1100	140-3026
IV212A	10742	IV4131	01709	IV808	10773	VG1135	140-8219
IV217	10434	IV4137	01536	IV815	10556	VG1137	140-3023
IV219	10197A	IV4139	02046	IV821	10556	VG140	140-3019
IV223	10543	IV4147	01699	IV900	10328A	VG1447	140-9206
IV225	10206	IV4149	01924	IV902	10048	VG149	140-8555
IV242	13358	IV415	10118	IV903	10310	VG150	140-8556
IV245	10432	IV4162	02192	IV903S	10309	VG3112	140-8593
IV245A	10541	IV4182	01701	IV916	02177	VG3116	140-9606
IV263	10778	IV4185	02118	IV918	10107	VG3117	140-8112
IV263A	13336	IV4186	01548	IV920	10314	VG3132	140-8124
IV282	10436	IV4186A	01723	IV922	10798	VG314	140-3029
IV282A	10436	IV4198	13225	IV925	10176	VG3143	140-9690
IV287	10778	IV420	02044	IV928	13365	VG3149	140-8039
IV290	10190	IV4200	01785	IV935	10137	VG3165	140-3053
IV295	10524	IV4205	00637	IV937	10322	VG3179	140-5606
IV300	10218	IV421	10385	IV939	10321	VG330	140-3009
IV302A	10087	IV422	10387	IV940	10421	VG337	140-8040
IV303	10105	IV425	10562	IV942	10337	VG350	140-8255
IV309	02249	IV427	10814	IV943	10735	VG400	140-8205
IV310	10522	IV428	01913	IV944	10518	VG401	140-8200
IV3104	01931	IV429	13038	IV945	10506	VG407	140-8218
IV3104A	01806	IV431	01745	IV946	10780	VG408	140-8172
IV311	10520	IV432	02006	IV949	02241	VG409	140-8142
		IV443	10157	IV950	10339SA	VG4109	140-3028
		IV444	10157	IV954	13208	VG411	140-8560
		IV447	01598	IV957	10473	VG4111	140-8559

Interchange Listing

STANADYNE (Cont'd)	13213AA100 140-8565	1293285FA0 121-1099	EVC27 01742
	13213AA120 140-3119	1293285Z00 121-1098	EVC27L 01992
12340 VL86	13217AA260 160-1621	1293378J00 122-1418	EVD10 10271
12341 VL87	13217AA261 160-1621	1293985Z00 122-1329	EVD14 10036S
12342 VL94	13217AA390 160-1622	928907005 122-1142	EVD15 10269
12343 VL37	13230AA110 VL146	928907007 122-1142	EVD24L 10256
12345 VL66RH	880904110 140-8143		EVD26 10282
12346 VL67RH		THERMO KING	EVD26Q 10282S
12348 VL114	SUPERIOR	112719 10215S	EVD26Z 10285S
12350 VL73	A010785 140-6479	112727 10214	EVD28 10274S
12355 VL115	A022935 140-6929	12013011860 140-3190	EVD30 10229
12356 VL113		12140011340 122-1484	EVD31 10227S
12357 VL106		12446011340 122-1483	EVD34 10538
12366 VL117RH	SUZUKI	12900411130 13414	EVD36 10793S
12369 VL116	0928905012 122-1155	12910011100 13415	EVD37 10536
12373 VL100	1111554G00001 140-3128	12910011130 13416	EVD39 10536
12376 VL141	1111560B11001 140-8324	12915011810 140-3191	EVD40 10795
12377 VL146	1111562D00001 140-8144	12979511120 160-1665	EVD42 13078
12380 VL107	1111582000001 140-8144	1371531091 13089S	EVD44 13214
12402 VL63	1111582000001 140-8144	27310080001 121-1138	EVDW3 02250S
12405 VL21	1111585FA1001 140-3127		EVFD2 10153
12410 VL31	1111585FAO001 140-3127	TOPLINE	EVFD3 10153
12420 VL48	1111585Z00 140-3010	A0812 VL8	EVFD5 10388
12482 VL81	1111586500001 140-8016	A0817 VL37	EVGAC3 140-8577
1249 170-1012	1111685Z00 140-3011	A0817R VL66RH	EVGC11 140-7589
	1284078J00 180-1323	A0846 VL5	EVGC15 140-7577
STERLING	1286078J00 VL175	A0892 VL21	EVGC23 140-7575
12212290061 10195	1289186511 VL120	A0900 VL35	EVGC24 140-7451N
12212290062 10123	1289186512 VL120	A0900R VL67RH	EVGC4 140-7714
	1289186521 VL120	A0951 VL49	EVGD26 140-8017
STUDEBAKER	1291159J00 13276	A0969 VL73	EVGD26Z 140-8544
1563982 00399	1291160A10 10172	A0969R VL117RH	EVGD28 140-8212
1564157 00400	1291160B20 10169	A0992 VL63	EVGD29 140-8213
1565711 00400	1291165J00 13197	A2000 VL48	EVGD30 140-8217
194359 140-1503	1291165J01 13197	A2011 VL89	EVGD31 140-8204
	1291171C00 10516	A2083 VL9	EVGH10 140-7710
SUBARU	1291178J00 13210	A2084 VL31	EVGH12 140-7659
13201AA080 10299	1291178J10 13210	A2089 VL88	EVGH16 140-8155
13201AA081 10299	1291179K00 13204	A2095 VL94	EVGH21 140-8157
13201AA082 10299	1291182000 10103	A2104 VL114	EVGH21 140-8577
13201AA340 13139S	1291182Z10 13237	A2105 VL87	EVGH28 140-8583
13201AA361 10806	1291182Z20 13077	A2148 VL115	EVGH29 140-8581
13201AA362 10806	1291185Z00 10784	A2205 VL100	EVGH44 140-3137
13201AA371 13201	1291186FAO 10786	A2217 VL113	EVGHY2 140-8573
13201AA493 13257	1291186FAO 10786	A2236 VL116	EVGHY7 140-8573
13201AA522 13259	1291559J00 13277	A2240 VL173	EVGHY10 140-8291
13201AA550 13261	1291560B20 10170	A2252 VL123	EVGHY16 140-3011
13202AA110 10300	1291560B70 10170	A2269 VL106	EVGHY2 140-8255
13202AA112 10300	1291565J01 13198	A2270 VL138	EVGM1 02248S
13202AA170 10300	1291571C00 10517	A2271 VL107	EVGM5 13368S
13202AA171 10300	1291571C50 10517	A2277 VL163	EVGM120 140-7577
13202AA350 13140S	1291578J00 13205	A2298 VL573	EVGM122 140-8571
13202AA371 10807	1291578J10 13205	A2304 VL178	EVGM16 140-8194
13202AA401 13203S	1291582000 10302	A2305 VL180	EVGM19 140-7577
13202AA411 13203S	1291582001 10302	A2308 VL562	EVGSU13 140-8565
13202AA502 13258	1291582050 10302	A2319 VL175	EVGTO18 140-8021
13202AA530 13260	1291582Z00 13078	A2332 VL560	EVGTO24 140-8202
13202AA660 13203S	1291582Z10 13238	ALAMA12 VL146	EVGTO34 140-8585
13207AA110 122-1429	1291582Z30 13078	ALAMA14H VL141	EVGTO38 140-8273
13207AA120 122-1180	1291585Z00 02040S	B2056 VL109	EVGTO55 140-3135
13207KA020 122-1428	1291586F50 10787S	B2319 VL175	EVH14L 10413
13210AA020 121-1129	1291782Z00 122-1150	EV037 10555S	EVH15 10193
13210KA031 121-1130	1292160A00 160-1318	EV069 10370S	EVH18L 10196
13211AA030 122-1187	1292178J00 160-1588	EV069D7 10732S	EVH19 10196
13211AA100 122-1430	1292182Z00 160-1590	EVAC1 10123	EVH20 10198A
13211AA110 122-1181	1292182Z10 160-1591	EVAC2 10437	EVH21 10191
13211KA001 122-1187	1292182Z11 160-1591	EVAC3 10435	EVH23 10414
13212AA040 140-8203	1292182Z40 160-1590	EVAC5 10546	EVH25 10525
13212AA090 140-8564	1292182Z50 160-1591	EVACTS 13173	EVH26 10542
13212AA100 140-8565	1293224400 121-1060	EVAC9 10779	EVH28 10544
13212AA130 140-3118	12932278J00 121-1127	EVC24L 01552	EVH29 10207
	1293282000 121-1061	EVC26 01731	EVH34 10542
	1293282Z00 121-1064	EVC26L 02009	EVH50 13359

Interchange Listing

TOPLINE (Cont'd)							
EVHY2L	10549	EVTO80	10330A	IVGD30	140-8216	IVMI6	10126A
EVHY3	10724	EVVO16	13303	IVGD31	140-8211	IVMI9	10126A
EVHY4	10813	EVVW12	10805S	IVGH16	140-8156	IVSU11L	13139S
EVHY5	10817	EVVW15	10803S	IVGH21	140-8158	IVSU11S	10806
EVHY7	10809	EVVW17	13316SN	IVGH28	140-8582	IVSU12	13257
EVIS12	10503	EVVW21	13318	IVGH29	140-8580	IVSU12T	13259
EVIS13	10740	EVVW22	13313S	IVGH3	140-7830	IVSU12TL	13261
EVIS16	02040S	HBC25	220-1075	IVGHY2	140-8572	IVSU9	10299
EVIS3	10104	HBC26	220-1072	IVGHY7	140-8572	IVSZ11	13276
EVIS6	10220S	HBC27	220-1074	IVGIS16	140-3010	IVSZ12	13210
EVIS7	10221S	HBC28	220-1083	IVGIS8	140-8189	IVSZ16	13204
EVIS8	10221S	HBC31	220-1077	IVGM1	02247	IVSZ2	10103
EVK5	10815	HBFD5	220-1016	IVGM5	13367	IVSZ21	10169
EVK6	02197	HBMA17	220-1028	IVGMA13L	140-8187	IVSZ2L	10169
EVK7	02195	HBMA27	220-1094	IVGMI20	140-7576	IVSZ4	10172
EVK8	13039	HBM122	220-1046	IVGMI22	140-8554	IVSZ5	10516
EVM19	10625	HBM19	220-1021	IVGMI6	140-8193	IVSZ8	10786
EVMA12	10163	HBSU9	220-1047	IVGMI6	140-8554	IVTO18	10107
EVMA13	10235	HBSZ1L	220-1026	IVGMI9	140-7576	IVTO18F	10176
EVMA16	10244	HBTO14L	220-1060	IVGSU13	140-8564	IVTO20	10337
EVMA17	10563	HBTO25	220-1060	IVGTO24	140-8201	IVTO24	10322
EVMA18	10248	HBTO28	220-1035	IVGTO34	140-8584	IVTO25	10421
EVMA25T	13306	HBTO31	220-1052	IVGTO55	140-3134	IVTO26	10310
EVMA27	01788	HBTO32	220-1050	IVH15	10192	IVTO26S	10309
EVMA7	10060S	HBTO33	220-1048	IVH18	10122	IVTO27	10473
EVMA8	10237	HBTO38	220-1043	IVH18L	10742	IVTO28	10314
EVMA9T	10159	HT2012	VL83	IVH19	10195	IVTO29	10506
EVM122	10499	HT2102	VL86	IVH20	10197A	IVTO31	10339SA
EVM124	10535A	HT945	VL32	IVH21	10190	IVTO32	10137
EVM127	10501	HT976	VL64	IVH25	10524	IVTO33	10305
EVM12L	10497	IV037	10733	IVH26	10432	IVTO34	10552
EVM135	13348	IV069	10367	IVH28	10543	IVTO36	10518
EVM137T	13397	IV069D7	10731	IVH29	10206	IVTO38	10321
EVM13L	10142	IVA6L	10370S	IVH34	10541	IVTO39	10735
EVM15	10144	IVAC2	10436	IVH50	13358	IVTO39L	10780
EVM16	10128A	IVAC3	10434	IVH8	10078	IVTO4	10406
EVM19	10625	IVAC5	10197A	IVHY11	13255	IVTO41	02241
EVSU11L	13140S	IVAC7	13172	IVHY14	13286	IVTO42	02177
EVSU11S	10807	IVAC9	10778	IVHY2	10547	IVTO43	13273
EVSU12	13258	IVAC9M	13336	IVHY3	10723	IVTO44	10798
EVSU12T	13260	IVC23L	10145	IVHY4	10812	IVTO48	13208
EVSU12TL	13262	IVC24L	10255	IVHY4L	13047	IVTO49	13086
EVSU9	10300	IVC26	01730	IVHY5	10816	IVTO55	13365
EVSZ11	13277	IVC26L	02008	IVHY7	10808	IVTO8	10048
EVSZ12	13205	IVC27	01741	IVIG3	10105	IVTO80	10328A
EVSZ2	10302	IVC27L	01991	IVIS12	10502	IVVO16	13302
EVSZ2L	10170	IVC4	10087	IVIS13	10739	IVVO4	10406
EVSZ5	10517	IVD10H	10270	IVIS16	10784	IVVW11	10556
EVSZ8	10787S	IVD14	10015	IVIS3	10105	IVVW12	10804S
EVTO18	10106	IVD15	10268	IVIS6	10218	IVVW16	13314
EVTO18F	10177	IVD24L	10255	IVK5	10814	IVVW17	13315S
EVTO20	10338S	IVD26	10281	IVK6	02196	IVVW21	13317
EVTO24	10323	IVD26Q	10281	IVK7	02194	IVVW22	13312
EVTO25	10420	IVD26Z	10284	IVK8	13038	LIFC28	VL173
EVTO26	10311	IVD28	10273	IVMA12	10162	LIFC31	VL171
EVTO27	10474	IVD29	10224	IVMA13	10234	LIFGM1	VL567
EVTO28	10315	IVD30	10228	IVMA16	10243	LIFGM5	VL570
EVTO29	10507	IVD31	10226	IVMA17	10562	LIFHY3	VL564
EVTO31	10340A	IVD34	10537	IVMA18	10247	LIFHY4	VL568
EVTO32	10138	IVD36	10792	IVMA25T	13305	LIFMA13	VL149
EVTO33	10306S	IVD40	10794	IVMA26	01728	LIFM16	VL135
EVTO34	10553S	IVD42	13077	IVMA27	01787	LIFSZ8	VL120
EVTO35	10306S	IVD44	13213	IVMA7	10061	LIFVW12E	VL524
EVTO39	10736	IVDW3	02249	IVMA8	10236	LIFVW12I	VL523
EVTO39L	10781	IVFD2	10118	IVMA9M	10157	LIFVW17	VL569
EVTO41	02240	IVFD3	10118	IVMA9T	10157	RAC25	180-1004
EVTO42	02178S	IVFD5	10387	IVMI22	10498	RAC27E	180-1320
EVTO43	13274S	IVGAC3	140-8397	IVMI24	10534A	RAC27I	180-1321
EVTO44	10799	IVGC14	140-7576	IVMI27	10500	RAD26	180-1264
EVTO48	13209	IVGC21	140-7576	IVMI2A	10495	RAD28EF	180-1266
EVTO49	13087	IVGC24	140-7429N	IVMI2A	10496	RAD28ER	180-1267
EVTO55	13366	IVGC3	140-7713	IVMI2B	10495	RAD28IF	180-1240
EVTO8	10037	IVGD26	140-7873	IVMI2B	10496	RAD28IR	180-1265
		IVGD26Z	140-8543	IVMI35	13347	RAM19R	180-1207
		IVGD28	140-8211	IVMI3L	10141	RATO8	180-1326
		IVGD29	140-8218	IVMI5	10143	VG056	140-7359

Interchange Listing

TOPLINE (Cont'd)							
VGC26	140-8556	VSSMA13	122-1285	1113175030	SB1562-66	1371175050	10321
VGC27	140-8555	VSSMA7	122-1132	1113176020	SB1562-66	1371175060	10321
VGD10	140-7826	VSSMA7	122-1132	11135-0P020	SB1288E-1	1371175110	13208
VGD23	140-7828	VSSMA9	122-1149	1113511010	SB1312-57	1371176008	13068
VGD24	140-7825	VSSS22	122-1142	1113511020	SB1062-50	1371176015	13060
VGD27	140-8190	VSSSZ2L	122-1155	1113513010	SB1250-50	1371176020	10473
VGD3	140-7499	VSSTO15	122-1147	1113515010	SB1312-59	1371176040	10473
VGH43	140-3136	VSSTO15	122-1165	1113515020	SB1312-59	1371178102	10768
VGHY11	140-3154	VSSTO15	122-1252	1113515021	SB1312-59	1371188600	02177
VGHY14	140-3152	VSSTO15	122-1253	1113515030	SB1062-50	1371196101	10768
VGIS10	140-8189	VSSTO15	122-1366	1113516010	SB1125-51	1371211020	10309
VGIS12	140-8255	VSSTO34	122-1266	1113535010	SB1562-67	1371503020	10420
VGMA12	140-8142	VSSTO34	122-1282	1113542010	SB1187-52	137150D010	10781
VGMA13	140-8173	VSSVO17T	122-1452	1113545010	SB1437-56	137150F020	13274S
VGMA17	140-8561			1113546020	SB1250-58	137150H010	10799
VGMA19	140-8587	TOYOTA		1113546050	SB1250-58	137150H030	10799
VGMA27	140-8560	1112210040	140-8195	1113550020	SB1250-58	137150P010	13087
VGMA6	140-9557	1112215030	140-8147	1113560010	SB1625-58	137150P030	13087
VGMA7	140-8200	1112216010	140-8038	1113562020	SB1187-53	137150S020	13087
VGMA8	140-8172	1112220020	140-8038	1113563010	SB1437-66	137150T010	13366
VGSU6	140-8143	11122216020	140-8038	1113565010	SB1562-72	1371510030	10311
VGSU9	140-8203	11122220020	140-8584	1113565011	SB1562-72	1371511030	10138
VGSZ12	140-3112	1112223010	140-8170	1113571010	SB1500-58	1371515010	10106
VGSZ15	140-3128	1112223011	140-8170	1113574020	SB1187-51	1371515030	10315
VGSZ16	140-3112	1112224020	140-8170	1113574030	SB1187-51	1371515070	10507
VGSZ2	140-8016	1112231020	140-8170	1113576020	SB1312-67	1371516010	10177
VGSZ2L	140-8324	1112231050	140-3134	1113576040	SB1312-67	1371520020	10553S
VGSZ3	140-8144	1112235020	140-7523	1113711020	SB1062-50	1371521010	02240
VGSZ5	140-8324	1112238020	140-7523	1371103020	10421	1371522030	10736
VGSZ8	140-3127	1112238021	140-7523	137110D010	10780	1371523011	13070
VGTO18L	140-8038	1112242010	140-8208	137110F010	13273	1371523020	10759
VGTO19	140-8018	1112243010	140-8018	137110H010	10798	1371523021	10761
VGTO20	140-8208	1112244011	140-8169	137110P010	13086	1371524012	10308
VGTO26	140-8195	1112246010	140-8161	137110P030	13086	1371524013	10308
VGTO28	140-8147	1112260020	140-8168	137110T010	13365	1371524030	10308
VGTO29	140-8147	1112261011	140-7528	1371110020	10310	1371528040	10799
VGTO31	140-8207	1112265020	140-7532	1371111010	10137	1371531012	10771
VGTO39	140-8584	1112266020	140-8207	1371111012	10137	1371531030	10773
VGTO48	140-3130	1112271020	140-8586	1371115010	10107	1371531090	13089S
VGTO8	140-7523	1112274030	140-8201	1371115050	10314	1371531120	13087
VGW11	140-8139	1112275020	140-8147	1371115090	10506	1371531140	13087
VGW12	140-3159BR	1112331050	140-3134+2	1371116010	10176	1371531150	13087
VSS027	122-1250	1112615011	140-8021	1371120020	10552	1371535010	10330A
VSS056	122-1089	1112615020	140-8021	1371121010	02241	1371535020	10330A
VSSC11	122-1114	1112616020	140-8585	1371122030	10735	1371538010	10037
VSSC17	122-1086	1112620020	140-8585	1371123011	13060	1371538011	10037
VSSC17	122-1088	1112631030	140-3135	1371123020	10758	1371538020	10037
VSSC17	122-1127	1112646010	140-8161	1371123021	10760	1371538023	10037
VSSC17	122-1163	1112650040	140-8273	1371124011	10307	1371538050	10037
VSSC24	122-1052	1112650050	140-8273	1371131012	10770	1371542010	10338S
VSSC24	122-1053	1112660021	140-7527	1371131030	10772	1371544013	10757
VSSC24	122-1079	1112661011	140-7529	1371131070	13088	1371548010	13069
VSSC24	122-1119	1112671020	140-8202	1371131071	13088	1371550060	13274S
VSSC26	122-1251	1112731030	140-3135+2	1371131100	13086	1371550070	13274S
VSSD10	122-1139	11131-0P020	SB1527E-1	1371131101	13086	1371550090	10069
VSSD10	122-1150	1113111010	SB1250-53	1371135010	10328A	1371561010	10069
VSSD10	122-1262	1113111020	SB1187-52	1371135030	10328A	1371561030	10069
VSSD24	122-1141	1113115010	SB1500-71	1371135040	10328A	1371561040	10342S
VSSD25E	122-1158	1113115020	SB1500-71	1371135050	10328A	1371562030	10306S
VSSD27	122-1063	1113115040	SB1250-54	1371135051	10328A	1371562050	10306S
VSSD27	122-1150	1113116010	SB1250-54	1371138010	10048	1371565010	10340A
VSSD29	122-1162	1113116040	SB1250-54	1371138010	10048	1371568010	10763
VSSD3	122-1119	1113124010	SB1500-56	1371142020	10337	1371571010	10323
VSSD3	122-1159	1113135010	SB1937-52	1371144012	10754	1371574080	10420
VSSGM5	122-1468	1113135011	SB1937-52	1371144013	10756	1371575040	10474
VSSH19	122-1136	1113138010	SB1812-53	1371146021	10518	1371575050	10474
VSSH19	122-1152	1113146020	SB1437-72	1371146022	10518	1371575100	13209
VSSH21	122-1201	1113150020	SB1437-72	1371148010	13068	1371575140	13209
VSSH21	122-1202	1113161010	SB1937-51	1371150060	13273	1371576009	13069
VSSH21	122-1202	1113162020	SB1375-50	1371160021	10070	1371576020	10474
VSSH21	122-1444	1113162030	SB1437-72	1371161010	10070	1371576030	10474
VSSH14	122-1130	1113163010	SB1687-55	1371162030	10305	1371578102	10769
VSSIS3	122-1130	1113165010	SB1750-68	1371165010	10339SA	1371588601	02178S
VSSMA13	122-1147	1113174010	SB1437-67	1371168010	10762	1371596101	10769
VSSMA13	122-1246	1113174020	SB1375-56	1371171010	10322	1375140010	VL81
				1371174080	10421	1375144011	VL81

Interchange Listing

TOYOTA (Cont'd)	TRW						
1375144040	VL81	386T	140-8555	IS250	SB1562-1	IS454	SB2062-1
1375144090	VL81	AS1790N	00326S	IS250H	SB1562-1N	IS455	SB2250-1
1378144011	VL81	AS1872	00598S	IS259	SB1250-1	IS458	SB1441E-1
1380135010	180-1326	AS2090	01206S	IS264N	SB1628E-2	IS459	SB1250-52
1381138010	180-1326	AS2270	00574S	IS270H	SB1875-7	IS462	SB1375-52
8050176135	160-1521	AS2302	00559S	IS272H	SB1348E-1N	IS464	SB1375-54
805017614471	160-1307	AS2304	00427S	IS274H	SB1750-3N	IS465	SB1437-1
9004812019	122-1147	AS2365N	01075S	IS294H	SB2000-3N	IS466	SB1437-4
9008031043	122-1266	AS2417	00753S	IS301H	SB1744E-1N	IS467	SB1437-50
9008031044	122-1282	AS2472	00602S	IS303H	SB1678E-1	IS469	SB1437-53
9008031046	122-1282	AS2491	00751S	IS306H	SB1624E-1N	IS470	SB1437-56
9008031101	122-1282	AS2535	01177S	IS308	SB1161E-1	IS471	SB1437-59
9008031102	122-1282	AS2550	01261S	IS311	SB1750-5	IS472	SB1437-62
9008050248	160-1444	AS2666	01133S	IS312HN	SB1687-2N	IS473	SB1500-53
9010910132	220-1060	AS2685	00746S	IS325	SB1937-1	IS474	SB1500-57
9050131003	160-1252	AS2690	00996S	IS326	SB2000-1	IS480	SB1562-5
9050133011	160-1253	AS2820	01177S	IS329H	SB2088E-1	IS481	SB1562-51
9050142003	160-1055	AS2841	00982S	IS330H	SB2444E-1	IS484	SB1562-57
9050142627	160-1521	AS2878	01312S	IS332H	SB2003E-1	IS486	SB1625-11
9050144777	160-1523	AS2896	01294S	IS332H3	SB2006E-1	IS488	SB1625-52
9050145025	160-1106	AS2941	00702	IS333H	SB1630E-1N	IS489	SB1625-58
9050145342	160-1025	AS2941	00702	IS336	SB1262E-1	IS491	SB1687-54
9050146001	160-1307	AS2959	10036S	IS363	SB1750-2	IS492	SB1750-12
9050147001	160-1038	AS2973	10037	IS366H	SB1803E-1	IS499	SB1812-52
9050441001	160-1319	AS2990	01305S	IS368	SB2020E-1	IS500	SB1812-53
9091002075	220-1052	AS2991	01145S	IS371H	SB2220E-1	IS502	SB1875-6
9091002077	220-1048	AS3000	01350S	IS377	SB1815E-1	IS503	SB1937-12
9091302021	122-1037	AS3009	01217S	IS379H	SB1691E-2	IS504	SB1937-51
9091302024	122-1127	AS3015	01431S	IS380H	SB1691E-1	IS506	SB2125-3
9091302030	122-1125	AS3019	01497S	IS384H	SB1687E-1N	IS507	SB1812E-3
9091302033	122-1125	AS3020	01468S	IS385H	SB1442E-2	IS508	SB1880E-2
9091302033B	122-1125	AS3023	01506S	IS386	SB1505E-1	IS509	SB1312-50
9091302038	122-1147	AS3041	01376S	IS387H	SB1812E-1	IS510	SB1500-3
9091302042	122-1389	AS3052	01422S	IS388H	SB2003E-3N	IS511	SB1500-58
9091302048	122-1125	AS3078	01368S	IS393H	SB1654E-1N	IS512	SB1437-63
9091302057	122-1127	AS3089	01205S	IS394H	SB1912E-1	IS513	SB1562-69
9091302058	122-1127	AS3089	01205S	IS397H	SB1750-1N	IS514	SB1125-51
9091302062	122-1147	AS3095	01525S	IS400H	SB1442E-1	IS516	SB1312-59
9091302064	122-1130	AS3097	01523S	IS402H	SB2004E-2	IS517	SB1500-71
9091302065	122-1127	AS3112	01420S	IS404H	SB1628E-1N	IS518	SB1500-63
9091302066	122-1147	AS3131	10269	IS405	SB2001E-1	IS519	SB1687-51
9091302066	122-1147	AS3144	10064	IS406	SB1500-50	IS520	SB1750-61
9091302079	122-1147	AS3160	10060S	IS407	SB2150E-1	IS521	SB1500-62
9091302080	122-1127	AS3162	01483S	IS408	SB1750-51	IS522	SB1375-51
9091302081	122-1147	AS3227	10271	IS409	SB2129E-1	IS523	SB1812-50
9091302085	122-1147	AS3262	10370S	IS411	SB1690E-1	IS524	SB1812-51
9091302086	122-1147	AS3299	01482S	IS413H	SB1625-3N	IS527	SB1812-55
9091302087	122-1147	AS3361	01578S	IS414H	SB1670E-1	IS529	SB1437-61
9091302088	122-1147	AS3363	01235S	IS415H	SB1486E-1	IS531	SB1812-54
9091302088	122-1147	AS3364	01646S	IS416	SB1814E-1	IS532	SB1625-53
9091302088	122-1246	AS3396	01294S	IS417	SB1609E-1	IS533	SB1500-54
9091302089	122-1147	AS3412	10116	IS419H	SB1781E-1N	IS535	SB1375-55
9091302090	122-1147	AS3416	10215S	IS420H	SB1671E-1N	IS536	SB1312-57
9091302090	122-1246	AS3437	01261S	IS423H	SB2049E-1	IS537	SB1562-66
9091302091	122-1163	AS3466	10349S	IS425H	SB1669E-1	IS538	SB1312-57
9091302094	122-1127	AS3493	10413	IS426	SB1973E-1	IS539	SB1562-66
9091302095	122-1165	AS3534	10276S	IS427H	SB1775E-1	IS541	SB1312-62
9091302096	122-1130	AS3540	10256	IS428	SB1812-3	IS542	SB1312-52
9091302101	122-1282	AS3627	10220S	IS429	SB2125-2	IS546	SB1937-52
9091302103	122-1285	AS3807	10102S	IS430	SB1812-4	IS547	SB1562-67
9091302105	122-1130	AS3870	10285S	IS431	SB1687-3	IS549	SB1500-71
9091302112	122-1282	IS100	SB1437-3	IS432	SB1625-3	IS550	SB1312-59
9091302113	122-1282	IS102	SB1500-1	IS433	SB1812-5	IS552	SB1812-54
9091302114	122-1347	IS104	SB1625-1	IS438	SB1875-2	IS553	SB1625-53
9091302115	122-1347	IS107	SB1750-4	IS439	SB1687-1	IS554	SB1312-53
9091303005	121-1023	IS150	SB1375-4	IS440	SB1375-1	IS556	SB1875-50
9091303021	121-1058	IS166	SB1625-4	IS441	SB1437-2	IS558	SB1437-60
9091303028	121-1100	IS167	SB1687-7	IS442	SB1875-1	IS559	SB1500-70
90913A3001	121-1100	IS207	SB1516E-1	IS443	SB1750-65	IS560	SB1625-59
90913T2001	122-1266	IS210	SB1625-1+005	IS445	SB1562-2	IS567	SB1062-50
90913T2003	122-1282	IS232H	SB1847E-1	IS446	SB1625-56	IS568	SB1250-54
94840062	10107	IS242	SB1640E-1	IS447	SB1875-51	IS569	SB1375-51
94840063	10106	IS245	SB1375-5	IS448	SB1562-54	IS570	SB1187-52
94847881	140-8147	IS248	SB1562-8	IS449	SB1750-60	IS571	SB1722E-1
		IS249	SB1750-8	IS452	SB1812-2	IS572	SB1853E-1
		IS249H	SB1750-8N	IS453	SB2125-1	IS576	SB1875-54

Interchange Listing

TRW (Cont'd)							
KO520	SB1750-52	S2683	01233	S3324	10104	V1941	00302
R0073288	161-1056	S2693	01189	S3328	10177	V1959	00313
S1013	00154	S2695	01135	S3332	10123	V1967X	00318
S1601	00170	S2704	00793	S3337	10142	V1982	00343
S1602	00196	S2809	01192	S3341	10146S	V1991	00160
S1669	00203	S2809+3	01192+3	S3358	01483S	V2036	00311
S1673	00205	S2813	01179	S3367	01814	V2056X	00373
S1821	00212	S2815	01169	S3369	01552	V2091	00399
S1824	00210	S2815+15	01169+15	S3372	10217	V2092X	00601
S1844	00234	S2817	01171	S3373	10220S	V2214XS	01036S
S1845	00485	S2825	01041	S3374	10129	V2227	00494
S1855	00257	S2827	01199	S3390	01597	V2253X	00585
S1872	00249	S2832	01237	S3391	01527	V2275	00308
S1888	00220	S2832+15	01237+15	S3393	01265	V2279N	00548
S1892	00489	S2834	01160	S3394	01135	V2298XS	00531S
S1950	00303	S2846	01212	S3399	01537	V2303X	00560
S1958	00312	S2847	01210	S3402	01554	V2305	00428
S1966	00319	S2862	01215	S3408	10311	V2310	00567
S1970	00327	S2868	01245	S3413	02058	V2311	00514
S1981	00486	S2870	01324	S3414	01192	V2342	00627
S1990	00159	S2877	01247	S3419	01674	V2348	00637
S2019	00348	S2898	01300	S3430	01419	V2348+15	00637+15
S2035	00310	S2900	01271	S3431	01675	V2351N	00696
S2054	00375	S2907	01326	S3432	01710	V2364	00504
S2090	00400	S2909	01325	S3438	10128A	V2367	00593
S2185	00518	S2911	01257	S3440	01511	V2372X	00376
S2234	00270	S2923	01292	S3442	01478	V2418X	00755
S2243	00520	S2925	01309	S3444	10315	V2437	00691
S2251	00185	S2928	01300	S3448	01389	V2449	00678
S2267	01500	S2936	01310	S3449	01591	V2466	00922
S2306	00564	S2938	01320	S3466	10349S	V2468	00883
S2309	01265	S2942	01597	S3477	01547	V2470	00988
S2323	00400	S2946	01322	S3478	01670	V2471	00550
S2363	00503	S2952	01321	S3480	01545	V2483	00947
S2366	00592	S2984	01327	S3481	01397	V2486	00949
S2373	00758	S2993	01354	S3484	01535	V2488X	00918
S2374	00759	S2994	01361	S3488	10386	V2488XS	01057S
S2383	01242	S3005	01358	S3490	01135	V2495	00969
S2383+15	01242+15	S3005+15	01358+15	S3492	01135	V2499	01457
S2436	00690	S3011	01135	S3494	10625	V2501	00975
S2448	02084	S3019	01378	S3588	10323	V2506	00938
S2456	00742	S3037	01367	S3627	10220S	V2506+15	00938+15
S2465	00921	S3037+15	01367+15	S3801	01556	V2515	00659
S2467	00882A	S3046	01389	S3809	10106	V2531	01268
S2469	00919	S3051	01519	S3811	01597	V2533	00963
S2485	01332	S3054	01500	S3831	01727	V2536	01120
S2485+15	01332+15	S3062	01814	S3833	10338S	V2547	00958
S2494	00970	S3071	01399	S3860	10244	V2552	01195
S2498	00974	S3077	01381	S3866	10221S	V2552+15	01195+15
S2500	00976	S3079	01419	S3871	10163	V2552+3	01195+3
S2505	01329	S3080	01417	S4228	10269	V2562X	01164
S2505+15	01329+15	S3093	01394	S4266	01320	V2564	01001
S2507	00549	S3100	01648	S800	00100	V2564+15	01001+15
S2514	00658	S3102	00608	S803	00121	V2597	01073
S2529	01242	S3104	01192	SC2297	00530SN	V2618	01105
S2530	01266	S3130	10308	SC3060	00917SN	V2620X	00924
S2530+15	01266+15	S3132	01455	SC3070	01385SN	V2639	01098
S2546	01072	S3138	01451	SC3081	01383SN	V2650	01289
S2550	01106	S3141	10083	SC3090	01241SN	V2657	00874
S2563	01000	S3156	00168	SX2865	01037	V2662	01048
S2596	00989	S3161	01192	SX2874	01375	V2664	01084
S2619	00923	S3188	01480	SX3006	01366	V2667X	01152
S2635	01093	S3212	01597	SX3042	01377	V2669	01082
S2638	01097	S3215	01203	SX3107	01018	V2671X	01148
S2649	01288	S3217	01441	SX3173	01446	V2673X	01103
S2656	00873	S3226	01448	SX3481	01397	V2677	00867
S2661	01047	S3246	10106	SX3800	10413	V2682X	01306
S2663	01083	S3247	10330A	V1014	00155	V2684X	01234
S2665	01156	S3250	10237	V1603	00810	V2691X	00997
S2668	01188	S3262	10370S	V1628	00169	V2692	01131
S2670	01147	S3265	10069	V1670	00204	V2694X	01194
S2672	01102	S3271	10193	V1674	00193	V2696	01137
S2676	01055	S3281	10276S	V1690X	00349	V2696+15	01137+15
S2678	01307	S3286	10282	V1698X	00298	V2698X	00912
		S3305	01542	V1846	00230	V2810	01193
		S3321	01504	V1886X	00600	V2810+15	01193+15

Interchange Listing

TUCKER (Cont'd)					
T905	SB1750-6	TS8066	SB2402E-1	B45410	122-1052
T910	SB1562-17	TS8068	SB2441E-1	B45411	122-1053
T911	SB1625-9	TS8072	SB2520E-1	B45484	122-1075
T912	SB1625-6	TS8076	SB2677E-1	B45497	122-1217
T913	SB1625-7	X340	SB2187-1C	B45546	122-1089
T914	SB1687-19	VICTOR/DANA			
T915	SB1750-10	3549	230-2025	B45560	122-1330
T919	SB1625-10	3688	230-2003	B45571	122-1130
T922	SB1625-58	3697	230-2005	B45613	122-1067
T923	SB1625-52	3721	230-2020	B45626	122-1201
T925	SB1687-11	3756	230-2018	B45627	122-1202
T928	SB1562-8	3758	230-2047	B45770	122-1203
T929	SB1562-1	3763	230-2086	B45907	122-1357
T934	SB1625-4	3767	230-2060	B46017	122-1444
T935	SB1625-3	3770	230-2038	GS33163	220-1008
T936	SB1625-18	3783	230-2038	GS33184	220-1009
T937	SB1687-9	3793	230-2025	GS33189	220-1014
T938	SB1687-6	4839	230-2000	GS33190	220-1015
T939	SB1562-4	4895	230-2056	GS33193	220-1010
T943	SB1625-11	4899	230-2033	GS33194	220-1002
T945	SB1628E-2	4906	230-2053	GS33219	220-1004
T947	SB1625-5	4920	230-2065	GS33220	220-1005
T949	SB1640E-1	54049	230-2127L	GS33221	220-1015
T950	SB1562-5	54050	230-2127R	GS33233	220-1024
T9500	SB1516E-1	54173	230-2142	GS33239	220-1013
T952	SB1625-1	54195	230-2137R	GS33240	220-1035
T953	SB1625-2	54196	230-2137L	GS33250	220-1000
T954	SB1625-15	54204	230-2141	GS33251	220-1017
T962	SB1687-7	5701	230-2024	GS33267	220-1025
T963	SB1687-18	5703	230-2001	GS33285	220-1018
T964	SB1562-9	5707	230-2066	GS33286	220-1104
T965	SB1669E-1	5713	230-2121	GS33287	220-1107
T966	SB1750-7	5727	230-2049	GS33328	220-1006
T968	SB1750-8	5731	230-2037	GS33343	220-1083
T976	SB1687-1	5735	230-2039	GS33375	220-1112
T981	SB1687-2	5739	230-2009	GS33376	220-1121
T982	SB1687-3	5742	230-2067	GS33377	220-1122
T983	SB1750-3	5743	230-2045	GS33379	220-1109
T984	SB1750-4	5747	230-2004	GS33380	220-1102
T986	SB1750-2	5757	230-2058	GS33392	220-1116
T987	SB1750-1	5758	230-2015	GS33393	220-1118
T990	SB1562-2	5759	230-2031	GS33395	220-1119
TS8000	SB1102E-1	5765	230-2006	GS33397	220-1080
TS8002	SB1142E-2	5769	230-2042	GS33419	220-1110
TS8004	SB1181E-1	5779	230-2020	GS33427	220-1108
TS8006	SB1221E-2	5786	230-2016	GS33429	220-1105
TS8008	SB1260E-1	5787	230-2069	GS33449	220-1123
TS8010	SB1299E-1	5788	230-2063	GS33489	220-1111
TS8012	SB1339E-2	5806	230-2026R	GS33509	220-1117
TS8014	SB1378E-1	5807	230-2026L	GS33668	220-1114
TS8016	SB1417E-1	5824	230-2122	VOLKSWAGEN	
TS8018	SB1457E-2	5826	230-2015	017089102	VL116
TS8020	SB1496E-1	5850	230-2041	017105951	VL116
TS8022	SB1535E-1	5851	230-2086	021109601E	10556
TS8024	SB1575E-3	5863	230-2059	021109601H	10556
TS8026	SB1614E-1	5866	230-2032	021109601L	10556
TS8028	SB1654E-3	5868	230-2048	021109651	121-1128
TS8030	SB1693E-4	5869G	230-2140	022109423D	VL569
TS8032	SB1732E-1	5870	230-2022	022109601G	13312
TS8034	SB1772E-2	5871	230-2021	022109601H	13310
TS8036	SB1811E-1	5874	230-2030	022109611N	13313S
TS8038	SB1850E-2	5875	230-2001	022109611P	13311S
TS8040	SB1890E-2	5878	230-2011	025109601C	10348
TS8042	SB1929E-1	5894	230-2118L	025109612A	10349S
TS8044	SB1969E-2	5895	230-2118R	026109675	122-1089
TS8046	SB2008E-2	5931	230-2052L	027103419	140-8139
TS8048	SB2047E-1	5932	230-2052R	027109675	122-1250
TS8050	SB2087E-2	5942	230-2089	028109601D	10731
TS8052	SB2126E-1	5942	230-2089	028109611G	10732S
TS8054	SB2165E-1	5978	230-2072R	034109309	VL116
TS8056	SB2205E-2	5979	230-2072L	034109309AD	VL116
TS8058	SB2244E-1	5985	230-2008L	034109309N	VL116
TS8060	SB2284E-2	5986	230-2008R	036109651A	121-1098
TS8062	SB2323E-2	5992	230-2117	036109675A	122-1363
		5993	230-2116	037103419B	140-8558
				037109601	10554S
				037109604	10554S
				037109611B	10555S
				038109601E	13337
				038109601F	13174
				038109611E	13338S
				039439570	VL116
				048109611B	10734S
				056103419A	140-7359
				056109651	121-1020
				058109309E	VL524
				058109309F	VL523
				058109601C	10804S
				058109611E	10805S
				058109611M	10803S
				058109633	160-1471
				068109601C	10367
				068109601D	10367
				068109611C	10370S
				068109611D	10370S
				06A103385A	220-1120
				06D109601M	13315S
				06D109611H	13316SN
				06D109611L	13318
				06E109601E	13314
				06E109601Q	13317
				06K109675	122-1363
				077109601Q	13319S
				077109611S	13320SN
				078109601B	10733
				078109601E	10733
				078109623B	160-1472
				113109651A	121-1083
				605139410	VL116
				961083E+11	140-3077
				FB0450	VL116
				VOLVO	
				12664165	SB1875-57
				12664199	SB1562-78
				12703914	140-8552
				13066303	122-1082
				15451354	140-3076
				1546437	140-3157
				1677875	121-1141
				20412798	SB1696E-2C
				20441486	13301S
				20441945	13301S
				20463800	13300S
				20482579	SB1696E-1C
				20510747	121-1083
				20513285	13435S
				20530103	SB1697E-2
				20536487	240-1046R
				20564020	13376S
				20564028	SB1932E-1
				20709467	SB2051E-6
				20732758	SB1579E-1C
				20737849	SB1658E-1C
				20737856	13375S
				20739057	13434S
				20740798	13377S
				20740804	SB1776E-1C
				20768519	13378S
				20787121	122-1504
				20817645	140-3157
				20864662	122-1469
				20904074	140-3157
				20905400	140-3157
				20916916	140-3207
				20919484	140-3157
				20924435	122-1504
				20981856	240-1052
				21016539	13378S
				21067953	140-3207

Interchange Listing

WOLVERINE (Cont'd)	YANMAR		
V2530 01266	11900011810	..... 140-3189	
V2531 01268	11971711190	..... 121-1074	
V2532 01358	11971711340	..... 122-1480	
V2536 01120	11971711350	..... 122-1481	
V2550 01106	11971711800	..... 140-3188	
V2551 01107	12013011860	..... 140-3190	
V2552 00696	12140011340	..... 122-1484	
V2552+3 01195+3	12185011150	..... 122-1482	
V2563 01000	12390011100	..... 13409	
V2564 01001	12390011110	..... 13410	
V2665 01156	12390011120	..... 160-1663	
V2678 01307	12390711100	..... 13403	
V2695 01135	12390711110	..... 13404	
V2696 01156	12390711120	..... 160-1660	
V2809 01192	12390711800	..... 140-3185	
V2810 01193	12390711810	..... 140-3186	
V2815 01169	12416011340	..... 122-1478	
V2816 01170	12446011340	..... 122-1483	
V2833 01238	12495011340	..... 122-1479	
V2985 01328	12900411130	..... 13414	
V3011 01135	12900511100	..... 13413	
V3037 01367	12910011100	..... 13415	
V3046 01387	12910011130	..... 13416	
V3047 01388	12915011810	..... 140-3191	
V3060 00917SN	12950811100	..... 13407	
V3082 01380	12950811110	..... 13408	
V3137 01452	12950811130	..... 160-1662	
V3138 01451	12979511120	..... 160-1665	
V3305 01542	12990011100	..... 13411	
VS101 160-1121	12990011110	..... 13412	
VS102 160-1125	12990011120	..... 160-1664	
VS103 160-1131	12990711100	..... 13405	
VS104 160-1137	12990711110	..... 13406	
VS105 160-1134	12990711120	..... 160-1661	
VS107 160-1139	12990711800	..... 140-3187	
VS108 160-1143	27310070001	..... 121-1137	
VS111 160-1136	27310080001	..... 121-1138	
VS114 160-1141	27310090000	..... 121-1139	
VS115 160-1122	27310090001	..... 121-1139	
VS116 160-1139			
VS117 160-1161			
VS118 160-1001			
VS119 160-1009			
VS120 160-1006			
VS121 160-1018			
VS123 160-1031			
VS124 160-1019			
VS125 160-1186			
VS128 160-1171			
VS130 160-1148			
VS132 160-1044			
VS133 160-1024			
VS135 160-1076			
VS167 160-1005			
VS181 160-1203			
VS197 160-1106			
VS198 160-1038			
VT1937 VL31			
VT2000 VL48			
VT2070 VL81			
WG1501 160-1144			
WG1817X VL66RH			
WG1900X VL67RH			
WG1969X VL117RH			
WG2110X VL100			
WG2552 01195			
YALE			
900284801 13061			
900284807 13062S			
900284853 160-1513			



ACERCA DE NOSOTROS

Fundada en Nashville, Tennessee, 1982, S. B. International, Inc.®, o SBI® es un proveedor principal de componentes de culata en el mercado de posventa automotriz en términos de calidad y disponibilidad del producto, así como servicio al cliente y técnico. SBI suministra en todo el mundo a distribuidores de partes para motor, reconstructores de producción y mercados especializados. La cobertura incluye automóviles, camiones ligeros, camiones y equipos pesados, motores agrícolas, marinos e industriales.

A partir de 1982, SBI introdujo los insertos de asiento de válvula de la marca J-LOY®, una línea de productos enfocada en aplicaciones de equipo pesado, que evolucionó a una cobertura de línea completa en varios años. En 1991, SBI sumó a su línea las válvulas de motor de la marca E-LOY®. Con estas dos líneas principales de componentes de culata, SBI introdujo en 1997 una línea completa de productos: guías de válvula, retenes de válvula (cerraduras), sellos de vástago de válvula, resortes de válvula, rotadores de resorte de válvula, varillas de empuje, componentes de balancines y otros componentes relacionados para la remanufactura de culatas o cabezas de motores. En 2001, SBI adquirió los derechos de comercialización de las guías de válvulas marca Ertel®, Ohio® y Nylen® para convertirse en el distribuidor mundial exclusivo de posventa. Para satisfacer las demandas de partes para culatas en el mercado de repuestos, SBI agregó a su línea de productos una gama completa de tubos de inyectores para las aplicaciones de equipo pesado más populares a principios de 2007.

En 2008, SBI y K-Line Industries, Inc.® firmaron un acuerdo que convierte a SBI en el Distribuidor Maestro Exclusivo de los reconocidos revestimientos de guía de válvula de bronce de la marca Bronze Bullet® de K-Line y herramientas de revestimiento de guía. Durante más de un cuarto de siglo, los revestimientos de guía de válvula de bala de bronce K-Line® han mantenido constantemente su primer lugar en todo el mundo como el estandarte de la industria de la reconstrucción de motores en base a la calidad del material y la fabricación, la eficiencia de la instalación y la durabilidad. SBI tiene el honor de trabajar en equipo con K-Line para proporcionar revestimientos de guía de válvula de gran calidad y las herramientas para la instalación de los revestimientos de guía para el mundo.

Los componentes suministrados por SBI se fabrican para cumplir o exceder las especificaciones de los fabricantes de equipos originales (OEM) y se prueban dentro de nuestro laboratorio de control de calidad utilizando Control Estadístico de Procesos (SPC) para garantizar las especificaciones correctas en cada producto.

SBI tiene centros de distribución de almacenes ubicados en todo Estados Unidos y Canadá, así como una red eficiente de distribuidores y remanufacturadores autorizados en todo el mundo. Esta infraestructura permite que SBI brinde soporte local y disponibilidad confiable para la conveniencia del cliente. El compromiso de SBI con la inversión en inventario, así como con la investigación, así como el desarrollo técnico, le ha valido a la compañía la reputación de tener el mejor servicio al cliente y técnico, junto con la mejor calidad y disponibilidad de partes en el mercado de repuestos de culatas.

INFORMACIÓN SOBRE EL PRODUCTO

Asientos De Válvula

S.B. International es el vendedor exclusivo de los Asientos para Válvula J-LOY.

Todos los Asientos J-LOY insertos con el Prefijo "SB" son asientos (duros) de gran calidad con un rango típico de durezza de 35 - 40R_c. Diferentes aleaciones son utilizadas, dependiendo en los requerimientos específicos del motor.

Asientos para Válvula de Metal Polverizado

Como cualquiera que ha tenido insertos maquinados de fábrica en modelos recientes, conoce la tecnología por la producción y uso de los Asientos de Válvula MP que han estado cerca por algunos años. El reto de los fabricantes de Asientos, ha sido proveer un material consistente con excelentes características de duración y acompañado con una buena adaptación para ser maquinado, siendo lo último una propiedad no requerida por OEM cuando se construye una nueva cabeza. En verdad, después que el motor ha corrido por algún tiempo, el asiento OEM tenderá a endurecerse con el trabajo, convirtiéndose casi imposible de maquinar.

Preguntas mas Frecuentes.

1. ¿Como se si un asiento de metal pulverizado de SBI esta disponible para mi aplicación?

Mirar su motor en la sección de aplicaciones de el catálogo. Si un asiento de metal pulverizado esta disponible, usted encontrará una nota para ese efecto en la columna de notas de la sección de Asientos para Válvula.

2. ¿Puedo usar un asiento de metal pulverizado para aplicaciones de diesel o propano?

Nosotros no recomendamos el uso de Asiento de Metal Polverizado de SBI para estas aplicaciones de el catálogo. Use el asiento recomendado en la sección de aplicaciones.

3. ¿Como maquino los asientos de metal pulverizado de SBI?

Dependiendo en su maquina, usted tal vez tendría que AUMENTAR la velocidad del eje hasta un 50%. En un asiento SB1562-1PM nosotros recomendamos usar hasta 500 RPM para lograr el mejor acabado de la superficie.

4. ¿Cual será la duración del cortador y que experimentaré yo?

Las pruebas que hemos corrido, indican que usted puede esperar cortar tantos asientos como de cuatro a diez veces, antes que usted tenga que afilar el cortador. Eso realmente depende en que corto y si los cortes de los asientos de metal pulverizado fueron en intervalos.

5. ¿Hay alguna ganancia productiva?

Un corte rápido y firme y la duración de la herramienta, incrementará grandemente el rendimiento de la maquina. El tiempo consumido será substancialmente improvisado y el tiempo que la maquina estuviera fuera de servicio será disminuido.

6. ¿Que clase de acabado en la superficie puedo esperar?

El asiento de metal pulverizado de SBI, proveerá uno de los mejores acabados de la superficie del asiento que cualquier asiento disponible en la industria. Con un cortador filoso y la correcta velocidad del eje, usted puede esperar un acabado uniforme como "espejo" en la superficie cortada.

INFORMACIÓN SOBRE EL PRODUCTO

Explicación de Numeración (“ = pulgadas)

Prefijo en Letra Indica Tipo Material	Número de Parte Básico 4 Dígitos	Sufijo
SB = Aleaciones Primos de Base Cobalto Hierro o Níquel	Diámetro Exterior (O.D.) Nominal o Exacto	1-49 = Versiones de diferente Diámetro Interior (ID) y hondo 50-Arriba = Insertos para culatas de Aluminio con O.D. más grande para empotrar C = Estelita #3 o materiales de base cobalto E = Número de parte básico es el Diámetro Exterior (O.D.) exacto N = Material no-magnético “serie estelar” PM = Metal Polverizado

EJEMPLOS:	SB1562-1 =	Material primo con mucho cromo y con O.D. 1-9/16” (1.562” O.D. nominal)
	SB1562-1N =	Mismo que SB1562-1 excepto de material no-magnético “serie estelar”
	SB1562-1PM =	Mismo que SB1562-1 excepto material de Metal Polverizado
	SB2088E-1 =	Inserto instalado en la fábrica con 2.088” O.D. exacto
	SB2088E-1+030 =	Mismo que arriba excepto +0.030” sobremedida con 2.118” O.D. exacto

Insertos Automotor (Incl. automóviles de pasajeros, camiones de servicio liviano y mediano tractores, etc.)

1. Culatas de Hierro Fundido

Para facilitar la selección y el mantenimiento de inventario, nuestro sistema de numeración de partes incorpora el tamaño de cortadura como el número de pieza básico en tamaños universales. Por ejemplo: SB1625-1, “1625” indica que esta asiento requiere el uso de un cortador de 1-5/8”.

El O.D. exacto es de 1.6305/1.6295” permitiendo un empujón apropiado. Para reemplazar insertos de Instalados de fábrica, el número de pieza básico es el O.D. exacto seguido por el sufijo “E” Por ejemplo SB1678E-1, “1678E” indica un asiento instalado en la fábrica con un O.D. exacto de 1.678”.

2. Culatas de Aluminio

La misma lógica de numeración es usada para estos insertos y se identifican con un sufijo de 50 o mayor. NOTA: El tamaño de estos insertos es mayor que el tamaño OEM métrico hasta el próximo tamaño de cortadura normal de los Estados Unidos. Por ejemplo: SB1500-57, “1500” indica que este asiento requiere el uso de un cortador de 1-1/2”. El O.D. exacto es de 1.507” concediendo para .007” El empujón apropiado para las culatas de Aluminio. Estos insertos también tienen un radio mezclado en el lado de instalación para preveer daño del diámetro interno del cilindro durante la instalación.

3. Asientos de válvulas “Serie Estelar”

La “Serie Estelar” es una serie de asientos de válvulas de escape super-primo para todos motores que operan con propano, LPG y gas natural. Después de años de estudios intensos en el campo de pruebas nosotros estamos orgullosos de anunciar la disponibilidad de los asientos de válvula super-primo no-magnético de la “Serie Estelar”. Debido a una variedad de factores, ciertos asientos de válvulas de escape en motores que operan particularmente con propano, LPG y gas natural requieren características de dureza en temperaturas super-altas. La “Serie Estelar” es de una aleación verdaderamente no-magnético la cual puede retener su dureza a más de 1600°F (871°C).

Los números de piezas son los mismos que nuestros asientos de la serie regular primo con la adición del sufijo “N”. Para información completa vea el tamaño en las lista progresiva o numérica.

4. Insertos Diesel de Gran Potencia

Insertos J-LOY para Motores Diesel de Gran Potencia (Caterpillar, Cummins, Detroit Diesel & Mack, etc.) son proveidos en materiales que sobrepasan las especificaciones OEM para la aplicación particular. El tamaño normal de insertos son exactos duplicados O.E. y insertos de sobremedida han sido diseñado para requisitos particulares del mercado.

LA HISTORIA DE “LA SERIE ESTELAR”

Un asiento de válvula nuevo Super-Primo está ahora disponible por SBI. Estos asientos de válvula designado “Serie Estelar” está intentado para las aplicaciones de escape operando con propano, LPG, y gas natural tal como otras aplicaciones difíciles donde se pueda encontrar calor extremo. Hace varios años se hizo aparente que en ciertos casos, culatas refabricadas experimentaban una erosión fuerte y rápida del asiento de válvula de escape. Esta erosión fue notada en asientos de acero inoxidable de “Alto Cromo-Primo” tal como en otros fabricantes de material de base de níquel.

Deberíamos señalar que estos materiales deben ser más de adecuada para manejar aplicaciones de escape para propano y otros combustibles. Muchos clientes han usado y continúan usando tipo regular primo de asientos de válvula para estos motores y no reportan tener ningún problema. Nosotros creemos que las fallas pueden ser causadas por, pero no limitado a los siguientes factores:

- 1) Impropia mezcla de aire y combustible.
- 2) Impropia regulación.
- 3) Aparatos de control de emisión.
- 4) Operación de ida y parada. Excesiva marcha en vacío, operación abusiva, peso excesivo del vehículo para el motor, etc..

La “Serie Estelar” es de una aleación níquel/cobalto verdaderamente no-magnético la cual puede retener su dureza a más de 1600°F (871°C). Ese es mucho más que cualquier otro asiento de válvula primo disponible en el mercado de repuestos. Ofrecemos actualmente más de 100 tamaños de asientos de válvula “serie estelar”. Tenemos tamaños “serie estelar” de asientos de válvula de escape para casi todos los motores operando con propano, LPG, y gas natural. Los números de partes son los mismos que nuestros asientos de grado primo con la adición del sufijo “N” (No-magnético).

Para obtener más información sobre las partes arriba, se refiere a la lista numérica o la lista por tamaño en la parte trasera de catálogo.

Inserto de Reparación Super Universal

Los insertos de asiento de válvula de reparación súper universal SBI se ofrecen en una variedad de tamaños en diámetro exterior incremental de 1/16 "de 1" a 2-3 / 8 ". Todos los asientos tienen un grosor de pared de 1/4 "y una profundidad de 7/16". Este rango de tamaños debería cubrir la mayoría de esas situaciones de reparación extrañas.

Vea la lista de tamaños progresivos para el inserto del asiento de la válvula según sus necesidades

INFORMACIÓN SOBRE EL PRODUCTO

Válvulas

S.B. Internacional es el comerciante de válvulas de motores marca E-LOY. Todas las válvulas de motor E-LOY son manufacturadas por métodos de proceso técnicos y estadísticos más modernos que se encuentran hoy día en la industria. Los materiales usados consisten de acero austenítico (no-magnético) o martensítico (magnético) y de aleaciones superiores de base de níquel junto con revestimientos de base de cobalto, hierro y níquel diseñados para motores diesel y de combustible sin plomo. Las varillas con chapado de cromo se encuentran donde se requieren para la aplicación del motor.

Aplicaciones de combustible gaseoso

S.B. Internacional provee y cubre los modelos mas comprensivos en la industria. Nosotros proveemos válvulas para motores de fábrica convertidos en LPG/Propano, válvulas para los motores convertidos y más populares en el mercado automotor y los cubiertos por Gas Natural Licuado (LNG) y motores corriendo en ambas aplicaciones Automotor y Aceite y Gas Natural. Estos motores requieren una específica combinación de materiales de las válvulas y asientos, para que den un largo servicio. El remplazo de SOLO la válvula o SOLO el asiento, puede causar frecuentes problemas para el Reconstructor, como al poner el componente desigual, con frecuencia causará que falle la parte que iguala. No es seguro asumir que solo la válvula gastada necesita ser remplazada. El desgaste de la válvula pudo ser causado por el uso de un asiento de material incorrecto para esa aplicación. Si usted no esta seguro de que la parte relacionada es la correcta para el lubricante que esta siendo usado, siempre es recomendado remplazar AMBOS componentes al mismo tiempo.

Explicación y Símbolos de Válvulas

Sufijo “S” = Revestimiento de Estelita. Requerido para motores diesel de gran potencia y en aplicaciones para válvulas de escape. Usados donde el calor y la corrosión son un problema y demostrados como una válvula opcional en algunas aplicaciones.

Sufijo “SN” = Revestimiento de Estelita y Lleno de Sodio. Usadas en algunas aplicaciones de gran potencia destacando una varilla hueca la cual está parcialmente llena de sodio y la cual transfiere el calor lejos del area crítica de la cabeza de válvula.

Sellos del bastago de válvula

Una lista nueva de sellos clasificada de acuerdo al diámetro de los sellos ha sido agregada al final del catálogo. Esta lista facilitará al instalador encontrar un sello por su medida y tipo de sello requerido. La práctica de seleccionar sellos de esta manera, seria considerada como un “ultimo recurso” cuando ninguna otra lista pueda ser encontrada. Los materiales usados hoy en día por emisiones controladas por motores de gas y diesel, son especialmente selectos para proporcionar el mejor funcionamiento bajo todas las condiciones de operación. Con frecuencia los materiales de entrada didieren con los de salida difieren, aun cuando el tamaño de especificaciones son los mismos. Es por esta razón que nosotros recomendamos que la sección de aplicaciones sea consultada por estas especificas aplicaciones, antes de seleccionar los sellos solamente por la medida del vástago.

INFORMACIÓN SOBRE EL PRODUCTO

Guías de Válvula

La línea de válvulas SBI es primordialmente provista en materiales de hierro fundido. Nuestro proveedor ha incorporado sobre 60 años de experiencia en la maquinaria y en la fundición de cada guía que se ha vendido. Los requisitos para motores de emisión modernos presentan un desafío único al reconstructor de culatas. Casi todos los nuevos diseños de OEM incorporan sellos de válvula tipo positivo y válvulas con chapado de cromo para reducir emisiones de escape. Esta realidad junto con las altas temperaturas en que se operan hacen que una buena lubricación de guías sea un prerequisite para un buen trabajo de válvula. La línea de guías de válvula de SBI incorpora una ranura espiral interna diseñada para proveer una excelente retención de aceite y para evitar un desgaste en la guía de válvula. Es poco común encontrar guías flojas en Cabezas Elevadas de Aluminio. Donde es necesario, SBI provee guías con un anillo de presión para prevenir el movimiento de la guía. En estos motores críticos, un O.D. en sobremedida de +0.002” 0 +0.006” están disponibles. Esta información está listada en la columna de notes de la sección de aplicaciones de el Catálogo.

Resortes de Válvula

S.B. Internacional ha juntado un listado con las especificaciones más comprensivas y precisas de Resortes para Válvula disponibles hoy en día. Cada resorte ha sido examinado para proveer la más reciente información disponible. En algunos casos las especificaciones de resorte tal vez han cambiado en comparación de aquellos originalmente instalados en la cabeza de cilindros. Donde es posible, hemos indicado en la sección de aplicaciones, donde un resorte puede remplazar uno de temprana versión o donde algunas modificaciones a la apaiencia pueden ser requeridas. Tampoco es seguro asumir, que las especificaciones de prueba representan los actuales requerimientos de altura del resorte instalado. Aunque esto es verdad, en muchos casos es siempre recomendado verificar los requerimientos de altura instalados contra las especificaciones de OEM (Manufacturación de Equipo Original).

Varillas de Empuje para Balancín

Las especificaciones o características de las Varillas para Balancín de SBI, han sido cambiadas. Nuestro ultimo listado requería el uso de “Bolas Para Chequeo de Medida”, cuando se median las perforaciones o el envasado de las Varillas de Empuje. Estas bolas para medir, eran insertadas dentro de la perforación o vaso y el resultado del tamaño era listado como fuera de longitud. Esto fue hecho para especificaciones OEM, así la duración de operación de las varillas era medida con efectividad. La falta de disponibilidad de estas bolas de chequeo, han resultado en un extenso problema industrial en el tamaño o medida de longitud, usando el equipo disponible en cada Taller de Reconstrucción. Podrían ser notadas esas variaciones que serian de gran especificación para las Varillas de Empuje con envase forjado, debido a variaciones en “como fueron forjados” los componentes.

Calzos Separadores para Culatas

Si una culata eje de levas elevada ha sido excesivamente maquinada la distancia entre el eje y la línea central del cigüeñal quedaría muy pequeña. Esto va a afectar la regulación de la válvula y el motor no podrá correr apropiadamente. También puede que haya la prohibibilidad de que el motor no pase las pruebas de emisiones. Los calzos separadores para culatas están diseñados para restaurar el espesor perdido y para restaurar la distancia de la línea central. Estos calzos separadores son 0.020” (0,0508mm) de espesor y son hechos de acero. Deben de ser instalados en la superficie directamente debajo de la empaquetadura de culata.

INFORMACIÓN SOBRE EL PRODUCTO

Pernos Con Rendimiento de Torsion

Muchos de los diseños hoy día usan pernos llamados “Pernos Con Rendimiento de Torsion”. Como el nombre sugiere, estos pernos están diseñados para ensanchar una cierta cantidad cuando están apretados correctamente. Durante el ciclo caliente frío estos pernos toman una posición permanente y no son capaces de reganar la fuerza de torsión si se vuelven a instalar. Se recomienda que en todos los motores, se remueva la culata. Refierase al manual de equipo original para la especificación correcta de torsión para cada motor. SBI vende Pernos en juegos de motor para motores de 4 cilindros, porque normalmente ellos tienen una cabeza de cilindros. En el caso de motores tipo “V”, donde posiblemente solo una cabeza tiene que ser removida, nosotros vendemos tornillos para una sola cabeza en paquetes individuales. Esto significa que en algunas aplicaciones, dos juegos serán requeridos para un motor completo. La columna de notas de el Catálogo en la sección de aplicaciones, indicara cuantos juegos serán requeridos para ses motor.

Cuñas de Válvulas

Muchas de las fallas de las cuñas de válvulas son a causa del uso de cuñas de válvulas desgastados. Cuando on motor tiene que correr por muchas millas, los componentes en el tren de válvula se desgastan juntos y forman patrones de desgaste en partes que están unidas. A veces cuando una culata es reconstruida estas partes se limpian completamente. Cuando la cabeza se rensambla las partes unidas no son ensabladas en el mismo orden y los patrones de desgaste son diferentes. Esto causa fracturas especialmente cuando las válvulas nuevas son instaladas con cuñas desgastadas. Se recomienda que las cuñas nuevas siempre sean instaladas durante los procesos de recondición de la culata.

Se recomienda instalar **siempre** nuevas cuñas de válvula

Pestañas de Calor

En la mayoría de los casos, Engine Rebuilder no tiene control sobre el procedimiento de instalación utilizado en su productos El nuevo cabezal o motor puede estar funcionando con el mismo radiador con fugas que causó el problema en primer lugar OSE recomienda el uso de pestañas de calor que dan alguna indicación sobre temperaturas de funcionamiento del motor. Las pestañas de calor no indicarán las condiciones individuales del cilindro, solo la temperatura del refrigerante en el motor.

<u>Número de Parte</u>	<u>Punta de fusion</u>	<u>Contidad</u>
231-1001	121°C– 124°C	100 Piezas
231-1002	107°C - 110°C	100 Piezas
231-1000	Adhesivo	88/ml

INFORMACIÓN SOBRE EL PRODUCTO

SBI ofrece ahora Fijador de **Rosca Rojo 671** y el Fijador de **Piezas Cilíndricas Verde 640** de la Marca **LOCTITE®**

Número de Parte

Cont. Neto

231-271L

36ml

231-640L

36ml



Tubos Para Inyector, Sellos Tipo Anillo-O (O-Ring) y Conductores de Agua.

S.B. International, Inc. Esta ofreciendo ahora **Tubos para Inyector, Sellos Tipo Anillo-O y Conductores de Agua** para las aplicaciones más populares de Equipo Pesado.

Nuestros **Tubos para Inyector, Sellos tipo Anillo-O y Conductores de Agua** reúnen o exceden todos los materiales del Equipo Original (OEM) que incluye Cobre, Acero Inoxidable, Hierro Fundido y Bronce, así como todos los requerimientos dimensionales, con el fin de cumplir con los altos estandars de emisión de hoy y fundamentalmente proveer a nuestros clientes con un producto de calidad.

Camisillas para Guías de Válvula y Herramientas para Camisillas

S.B. International, Inc. es ahora el distribuidor maestro y exclusivo K-Line® y de las Guías de Bronce (Camisillas) y Herramientas para la instalación de las camisillas. Para más información, favor de seleccionar la información de K-Line®, inmediatamente en seguida de esta sección. Para listados, seleccione el símbolo de especificación en la barra que está localizada en la pantalla. Ahora seleccione el tipo de parte y comience a buscar por medida o descripción.



INCHES and MILLIMETERS CONVERSION CHART

FRACTION (inches)	DECIMAL (inches)	MM	FRACTION (inches)	DECIMAL (inches)	MM
1/64	.0156	.3969	33/64	.5156	13.0969
1/32	.0313	.7938	17/32	.5313	13.4938
3/64	.0469	1.1906	35/64	.5469	13.8906
1/16	.0625	1.5875	9/16	.5625	14.2875
5/64	.0781	1.9844	37/64	.5781	14.6844
3/32	.0938	2.3813	19/32	.5938	15.0813
7/64	.1094	2.7781	39/64	.6094	14.4781
1/8	.1250	3.1750	5/8	.6250	15.8750
9/64	.1406	3.5719	41/64	.6406	16.2719
5/32	.1563	3.9688	21/32	.6563	16.6688
11/64	.1719	4.3656	43/64	.6719	17.0656
3/16	.1875	4.7625	11/16	.6875	17.4625
13/64	.2031	5.1594	45/64	.7031	17.8594
7/32	.2188	5.5563	23/32	.7188	18.2563
15/64	.2344	5.9531	47/64	.7344	18.6531
1/4	.2500	6.3500	3/4	.7500	19.0500
17/64	.2656	6.7469	49/64	.7656	19.4469
9/32	.2813	7.1438	25/32	.7813	19.8438
19/64	.2969	7.5406	51/64	.7969	20.2406
5/16	.3125	7.9375	13/16	.8125	20.6375
21/64	.3281	8.3344	53/64	.8281	21.0344
11/32	.3438	8.7313	27/32	.8438	21.4313
23/64	.3594	9.1281	55/64	.8594	21.8281
3/8	.3750	9.5250	7/8	.8750	22.2250
25/64	.3906	9.9219	57/64	.8906	22.6219
13/32	.4063	10.3188	29/32	.9063	23.0188
27/64	.4219	10.7156	59/64	.9219	23.4156
7/16	.4375	11.1125	15/16	.9375	23.8125
29/64	.4531	11.5094	61/64	.9531	24.2094
15/32	.4688	11.9063	31/32	.9688	24.6063
31/64	.4844	12.3031	63/64	.9844	25.0031
1/2	.5000	12.7000	1	1.0000	25.4000

Conversion: Inches Multiplied by 25.4 = Millimeters; Millimeters Divided by 25.4 = Inches