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For technical service call:  
1-800-248-9606



**Hours: 8:30 am - 6:00 pm EST  
(Monday - Friday)**

Use Of Clevite® engine bearings & engine parts, Perfect Circle® piston rings and Victor Reinz® gaskets products in aircraft or other specialty equipment may be a violation of Local, State or Federal Regulatory Agency laws, rules and regulations.

These products are intended solely for automotive applications. Under absolutely NO circumstances should these products ever be used in non-automotive applications including, without limitation, aircraft engines, medical equipment, atomic energy devices or reactors.

“Federal, State and local laws restrict the removal, rendering inoperative, or in some cases the modification of factory installed emission devices or systems. California restricts the use of parts which could increase emissions in vehicles designed for use on public streets or highways.

The sale or installation on emission controlled vehicles of certain emission control components not approved by the California Air Resources Board, which alter or modify the original design or performance of such vehicle’s emission control system is prohibited. Some of the parts listed and offered for sale in this catalog may fall within the above restrictions. Such parts are intended only for use on off-road vehicles competing in competitive events or on other types of vehicles which are exempt from the applicable emission control laws. Installation of these parts on vehicles subject to emission control laws may be prohibited.

MAHLE Clevite recommends that the applicable emission control laws be reviewed before considering the installation of add-on or modified parts.”


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# How To Use This Catalog

**Engine block section:** locate the corresponding block number by using the model index in the front of the section

Each block has the following pertinent information to that part number:

1. Engine application detail and block no.
2. Engine models
3. Product category
4. Product description
5. Product and application notes
6. OE interchanges
7. Part number
8. Per engine quantity

1 2		359 CID (5.9L) 24V Turbo L6 4.0" (102.0mm) Cummins ISB DIESEL			2	
VIN Code: '6 [ETC]' (1998-2002)						
CYLINDER BLOCK PARTS						
Piston	1998-2002	Head Type: Reentrant Bowl Non-HO, Grade A		6 Aluminum	224-3355 224-3355.020 224-3355.030 224-3355.040	6
Piston w/Rings	1998-2002	Contents: 224-3355, S41518 Piston Rings Not Installed			225-3355 225-3355.020 225-3355.030 225-3355.040	6
Piston Ring Set	1998-2002	<b>Comp Rings</b> 1 3.00mm 1 2.35mm	<b>Oil Ring</b> 1 4.00mm	Chrome Ductile Iron	S41518 S41518.040	6
	1998-2002	<b>Comp Rings</b> 1 3.00mm 1 2.39mm	<b>Oil Ring</b> 1 4.00mm	Ceramic Chrome Ductile Iron	S42170 S42170.020 S42170.040	6
3 ENGINE BEARINGS						
Rod Bearing	1998-2002	H-Series Performance No Dowel Hole In Cap Half, Machined Connecting Rod		TM-112	CB-1413H CB-1413H-.026mm CB-1413H-.25mm	6
	1998-2002	H-Series Performance Bearing Wall .0005* Thinner For .0010" More Oil Clearance No Dowel Hole In Cap Half, Machined Connecting Rod		TM-112	CB-1413HX	6
	1998-2002	Machined Connecting Rod		TM-112	CB-1413P CB-1413P-.25mm CB-1413P-.50mm	6

## For Non-Sleeved Engines

MAHLE Clevite rebore kits include the following components: pistons, piston pins, lock rings and piston rings. Depending on the application, contemporary design features as listed below are included.

### Pistons

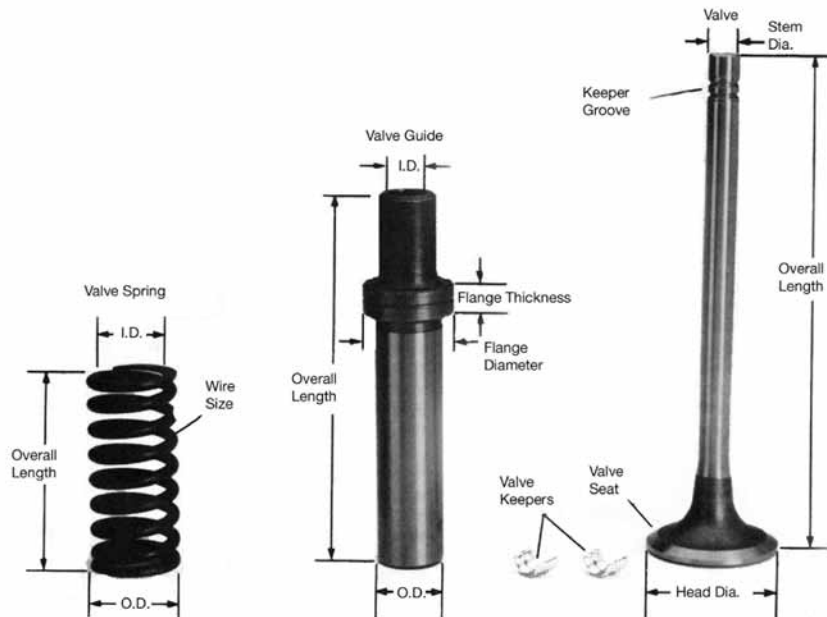
1. Ni-resist top grooves to control groove wear.
2. Balancing for smooth engine operation.

### Piston Pins

1. High strength steels meet structural requirements to prevent pin breakage or deflection.
2. Case hardened to provide long lasting wear surfaces.
3. A high degree of dimensional and surface finish control are the final requirements for strength and long life.

### Piston Rings

1. Latest, high strength materials to protect against fatigue breakage.
2. Chrome and moly plated O.D. finishes provide long lasting wear surfaces.
3. Chrome plated and nitrided steel oil rings give good oil control.



# Gasket Set Terminology

## Full Gasket Set

Includes all gaskets normally required for a total disassembly of the engine or complete out-of-frame overhaul, including standard front and rear seals.

## In-frame Gasket Set

Includes all gaskets normally required to do an in-frame overhaul. This would include all the gaskets required to remove and replace all cylinder heads and pan gasket.

## Head Gasket Set

Includes all gaskets normally required to remove and replace a cylinder head. Caution should be exercised in ordering head gasket sets as sets can be offered in single cylinder, multi-cylinder or complete engine sets. There are cases where multiple sets are required to service all cylinder heads on one engine. Selected head gasket sets are available with oversize head gaskets to compensate for machining of components.

## Oil Pan Set

Includes all gaskets normally required to remove and replace the oil pan.

## Cylinder Head Gasket

Includes single head gasket only and no supporting gaskets. These are available separately for popular applications. Selected head gaskets are available in oversize to compensate for machining of components.

## Timing Cover Set

Includes all gaskets and standard seals normally required to access and service timing chains or gears. Selected sets also include crankshaft repair sleeves.

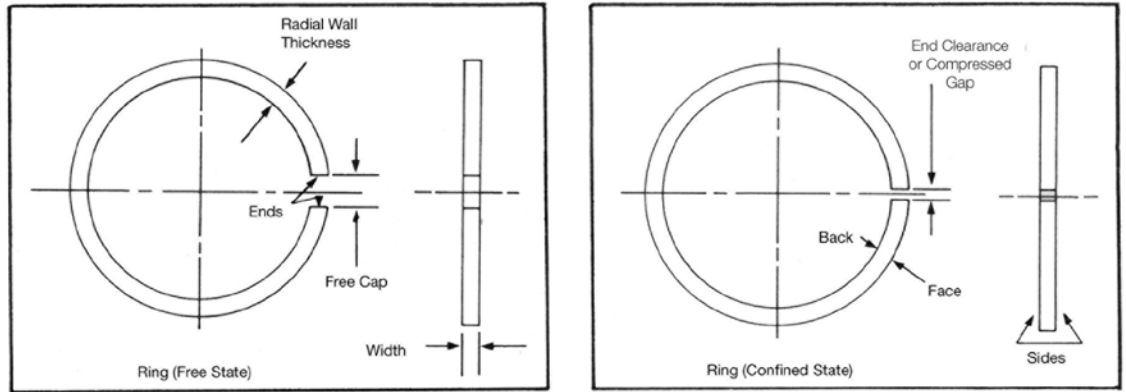
## Manifold Gasket Set

Includes all gaskets normally required to remove and replace either intake or exhaust manifolds. Intake and exhaust sets are ordered separately and are available for popular applications.

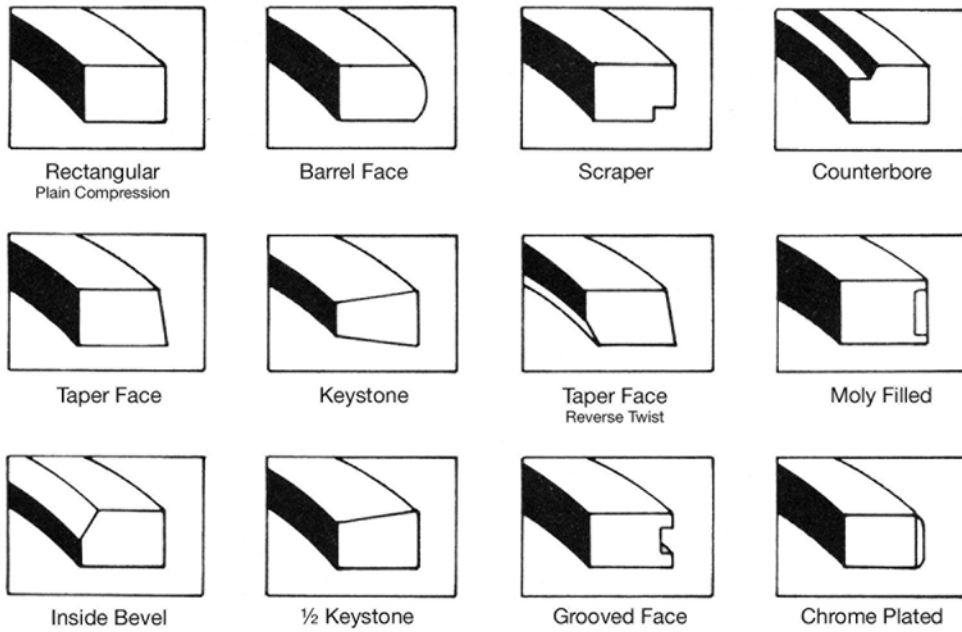
## Valve Cover and Push Rod Cover Set

Includes all gasket normally required to remove and replace either valve covers or push rods covers. Valve cover and push rod cover sets are ordered separately and are available for popular applications.

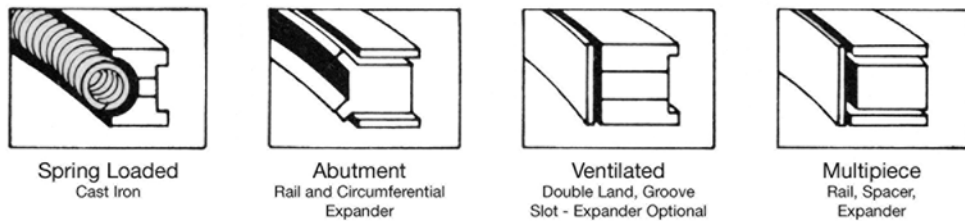
# Piston Ring Styles



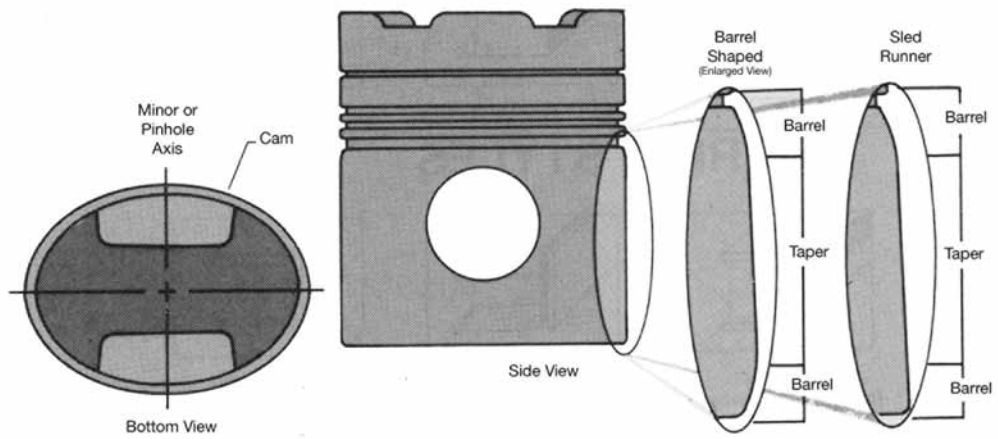
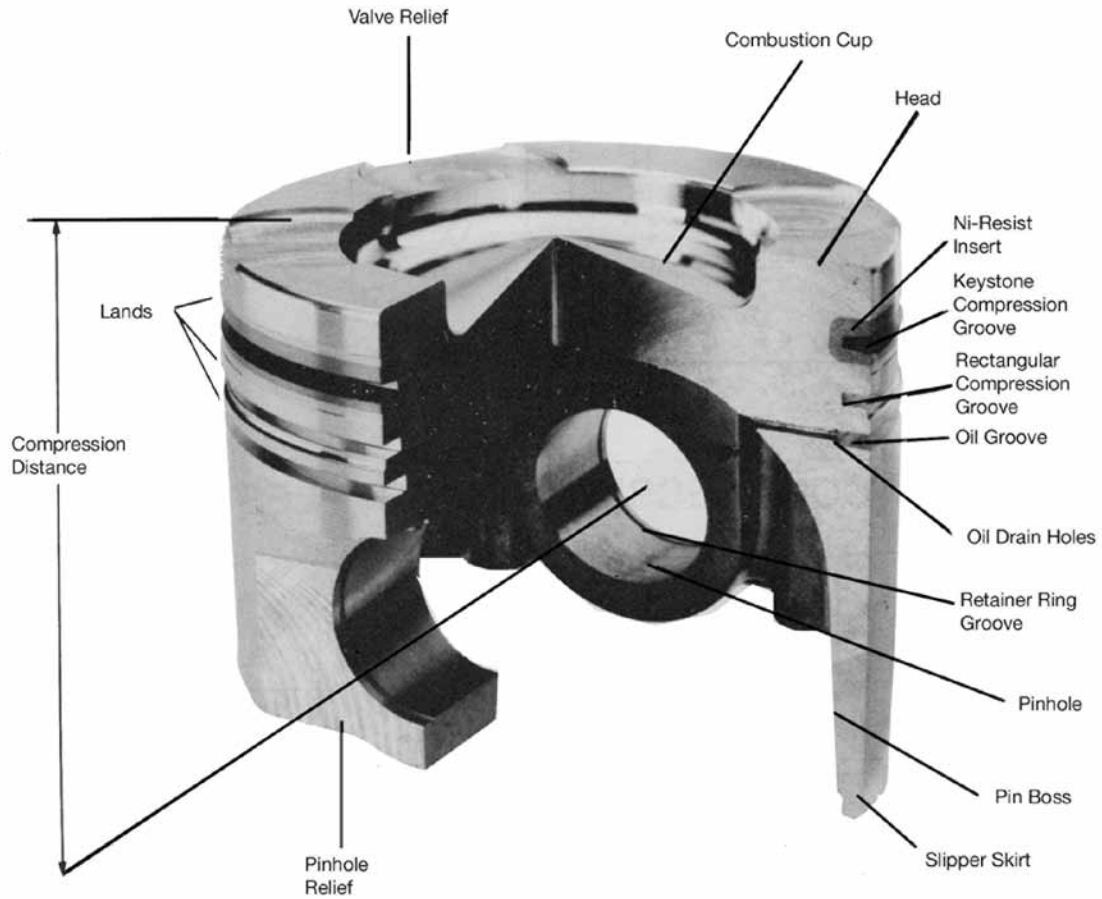
## Compression Ring Styles



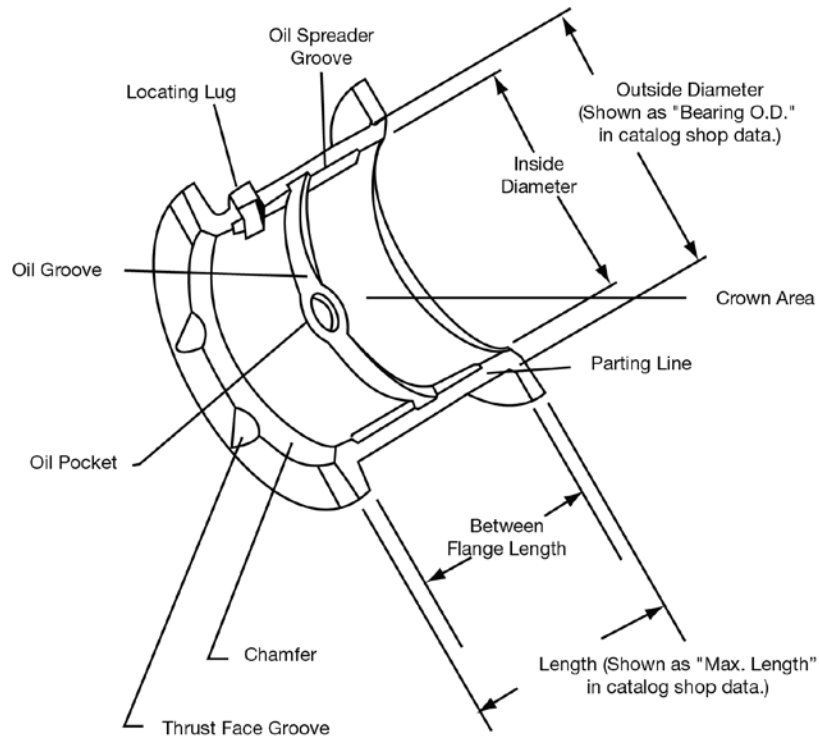
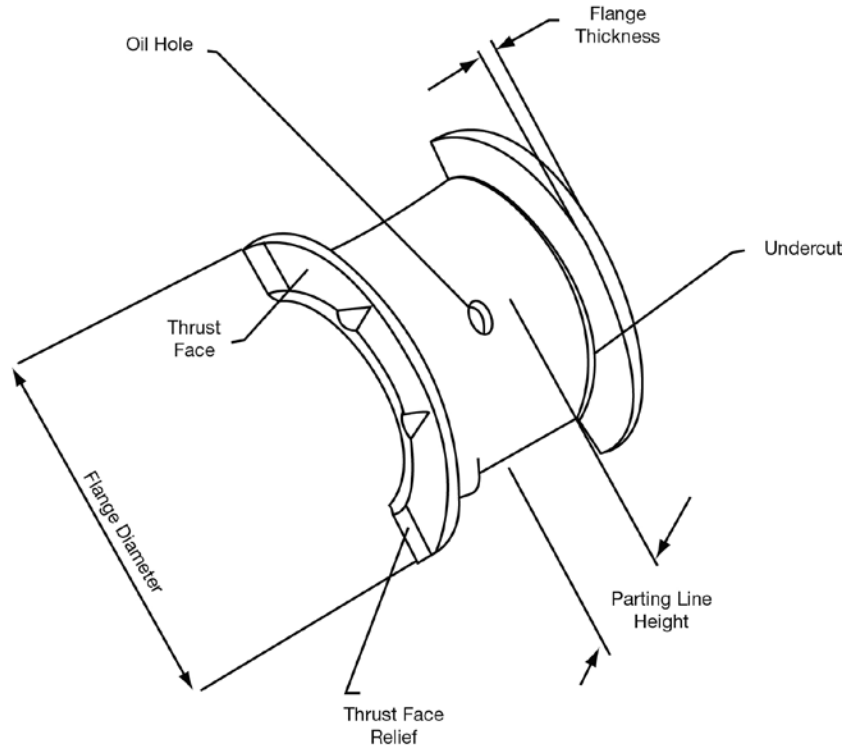
## Oil Ring Styles



# Piston Nomenclature



# Bearing Nomenclature





# Bearing Terminology

## **Bearing Outside Diameter Or Housing Bore**

The minimum to maximum diameter of the hole in the engine block or the connecting rod.

## **Crush**

When the bearing half is in its place in the housing bore, there is a slight bit of material that extends above the housing bore. When the assembly is torqued to proper specification, force is then exerting onto the OD of the bearing causing a press fit. Crush also aids in bore distortion, and heat transfer by increasing the surface contact with the bearing and the bore. Clevite Performance bearings have added crush for heat transfer and bearing retention. The amount of crush will vary depending on application.

## **Eccentricity**

A gradual reduction in the bearing wall thickness starting at the crown and ending at approximately .380" from the parting lines.

## **Full Annular Grooved**

Bearings having an oil groove cut from parting line to parting line in the internal surface of the half shell. When two grooved halves are joined, this creates a groove in the internal surface around the total circumference of the bearing.

## **Inside Diameter**

The distance between the inner surfaces of the assembled bearing.

## **Main T/W Set**

Main thrust washer set.

## **Maximum Bearing Length**

The maximum length that the bearing may have (including the flange when it applies). The actual length is usually less than this value.

## **Maximum Wall At Crown**

The maximum thickness of the bearing wall at 90° from the parting lines. The actual thickness is usually less than this value.

## **Standard Shaft Diameter**

The minimum to maximum size of the standard main crankshaft journal, connecting rod journal or camshaft journal.

## **Vertical Oil Clearance**

The difference between the assembled inside diameter of the bearing and the outside diameter of the shaft, measured at 90° from the bearing parting lines.

## Bearing Material Designations

### AL-3

Steel backed aluminum alloy without overlay

### B-1

Steel backed tin or lead base conventional babbitt (nominal .020" thickness)

### C-1

Steel backed copper-lead matrix without overlay

### TM-77/TM-112

Steel backed with an intermediate layer of copper-lead alloy and an electro-plated lead-base overlay (precision undersizes are not resizable)



# Engine Kit Terminology

## Master Kits (MK)

Contains pistons, rings, rod bearings, main bearings, cam bearings, camshaft and lifters or followers, timing components, gaskets, oil pump & expansion plugs.

## Re-Main Kits (RM)

Components include rings, gaskets, rod bearings & main bearings.

## Re-Ring Kits (RR)

Components include rings, gaskets & rod bearings.

## Master Incomplete Kits (MKI)

Contains rings, pistons, rod bearings, main bearings, & gaskets.



# Part number identification

The numbers listed next to the headings below correspond to the part identification numbers listed on the following pages. These numbers will help to identify our part numbers, nomenclature, prefix and or suffix for common parts in our product line.

## Engine

Series	Description
211-1000 .....	Valves
212-1000 .....	Valve Springs
213-1000 .....	Valve Lifters
214-1000 .....	Rocker Arm Parts
214-2000 .....	Rocker Arms
215-4000 .....	Push Rods
216-1000 .....	Valve Stem Seals
216-2000 .....	Roto Mechanisms
216-3000 .....	Roto Cap Assemblies
216-4000 .....	Valve Spring Retainers
216-5000 .....	Valve Locks
216-7000 .....	Engine Fasteners
217-3000 .....	Valve Guides
218-3000 .....	Valve Seat Inserts
219- .....	Expansion Plugs
223-1000 .....	Wrist Pins
223-3000 .....	Piston Pin Bushings
223-5000 .....	Lock Rings
223-7000 .....	“O” Rings
223-8000 .....	Shims, Insert Rings
224-1000 .....	Pistons
226-1000 .....	Sleeve Assemblies
226-4000 .....	Sleeves
226-8000 .....	Repair Sleeves
229-1000 .....	Camshafts
230-1000 .....	Rocker Arm Assemblies
230-3000 .....	Rocker Arm Shafts
247-5000 .....	Crankshafts
601-3000 .....	Oil Coolers
A-B-C.....	Valve Spring Inserts
8- .....	Timing Gears
9- .....	Sprockets and Chains
S- .....	Timing Sprockets

## Filters

OC .....	Oil Filter
KC.....	Fuel Filter

## Turbocharger Suffix

-000 .....	Factory New
-100 .....	Remanufactured to OE Standards

## Gaskets

Series	Description
40000 & 60000.....	Rear Main/Timing Cover Seals
43-5999 .....	Cylinder Head Gaskets (single)
CH- .....	Cylinder Head Gaskets (multi)
CS- .....	Conversion Sets “Lower”
EK- .....	In-Frame Sets
FS- .....	Full Gasket Sets
HS- .....	Head Gasket Sets “Upper”
JV- .....	Rear Main or Timing Cover Sets
MS- .....	Intake or Exhaust Manifold Sets
OS- .....	Oil Pan Gasket Sets
PS- .....	Push Rod (Side) Cover Gasket Set
SS- .....	Front or Rear Main Seal (Includes Repair Sleeve)
VS- .....	Valve Cover Gasket Set

## Bearings

223-3000 .....	Piston Pin Bushings
CB- .....	Connecting Rod Bearing
MB- .....	Individual Main Bearing
MS- .....	Main Bearing Set
SH- .....	Cam Bearing
SM- .....	Shim Set
TW- .....	Thrust Washer

## Bearing Suffix

-AL .....	Aluminum Alloy or Seal Backed with an Aluminum Alloy Lining
-B.....	Steel or Bronze Backed with a Babbitt Lining
-C.....	Steel Backed With Copper Lead Lining
-G.....	Steel Backed with TriMetal Copper Lead Matrix
-F .....	Flanged Bearing
-M .....	Steel Backed with Micro Babbitt Lining
-P .....	Steel Backed Intermediated Layer of TriMetal Copper-Lead Alloy with a .001” Electroplated Lead-Tin Overlay
-S.....	Indicates “Set”
-W .....	Thrust Washer WL-lower, WU-upper

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Pour joindre le service technique, veuillez composer le : 1-800-248-9606



**Heures : de 8 h 30 à 18 h HNE  
(du lundi au vendredi)**

L'utilisation de coussinets et de pièces de moteur Clevite®, de segments de piston Perfect Circle® et de joints d'étanchéité Victor Reinz® dans des avions ou d'autres types d'équipement spécialisé peut contrevenir aux lois et aux différentes réglementations municipales, provinciales ou fédérales.

Ces produits sont conçus uniquement pour les véhicules automobiles. Ces produits ne doivent en AUCUN cas être utilisés pour des applications autres que les véhicules automobiles, y compris, mais sans s'y limiter, des moteurs d'avion, du matériel médical, des instruments ou des réacteurs d'énergie atomique.

Les lois municipales, provinciales et fédérales restreignent le retrait, la mise hors de fonctionnement et, dans certains cas, la modification des dispositifs ou des systèmes antipollution installés en usine. L'État de Californie limite l'utilisation de pièces qui pourraient accroître les émissions polluantes

des véhicules conçus pour circuler sur les voies ou autoroutes publiques.

Il est strictement interdit de vendre — ou d'installer sur des véhicules dotés d'un système antipollution — certains composants antipollution non approuvés par le California Air Resources Board et qui modifient la conception ou la performance d'origine du système antipollution de ces véhicules. Certaines des pièces figurant dans ce catalogue peuvent être assujetties à de telles restrictions. Ces pièces sont destinées uniquement aux véhicules hors route utilisés dans des épreuves de compétition ou à d'autres types de véhicules non touchés par les lois en vigueur sur le contrôle des émissions. L'installation de ces pièces sur des véhicules assujettis aux lois sur le contrôle des émissions peut être interdite.

MAHLE Clevite recommande de prendre connaissance des lois en vigueur sur le contrôle des émissions avant de procéder à l'installation de pièces complémentaires ou modifiées.


*Téflon et Viton sont des marques déposées de DuPont Corporation.*

# Mode d'utilisation de ce catalogue

**Section des trousse de moteur:** repérer le numéro de bloc correspondant au moyen de l'index des modèles situé au début de la section. Chaque bloc donne les renseignements pertinents suivants pour le numéro de trousse en question:

1. Détails de l'application et numéro de bloc
2. Modèles de moteur
3. Catégorie de produit
4. Description du produit
5. Notes sur le produit et les applications
6. Correspondances avec É.O.
7. Numéro de pièce
8. Quantité requise par moteur

français

1 2		359 CID (5.9L) 24V Turbo L6 4.0" (102.0mm) Cummins ISB DIESEL			2	
VIN Code: '6 [ETC]' (1998-2002)						
CYLINDER BLOCK PARTS						
Piston	1998-2002	Head Type: Reentrant Bowl Non-HO, Grade A		6 <i>aluminum</i>	<b>224-3355</b> 224-3355.020 224-3355.030 224-3355.040	6
Piston w/Rings	1998-2002	Contents: 224-3355, S41518 Piston Rings Not Installed			<b>225-3355</b> 225-3355.020 225-3355.030 225-3355.040	6
Piston Ring Set	1998-2002	<b>Comp Rings</b> 1 3.00mm 1 2.35mm	<b>Oil Ring</b> 1 4.00mm	<i>Chrome Ductile Iron</i>	<b>S41518</b> S41518. S41518.040	6
	1998-2002	<b>Comp Rings</b> 1 3.00mm 1 2.39mm	<b>Oil Ring</b> 1 4.00mm	<i>Ceramic Chrome Ductile Iron</i>	<b>S42170</b> S42170.020 S42170.040	6
3 ENGINE BEARINGS						
Rod Bearing	1998-2002	H-Series Performance No Dowel Hole In Cap Half, Machined Connecting Rod		<i>TM-112</i>	<b>CB-1413H</b> CB-1413H-.026mm CB-1413H-.25mm	6
	1998-2002	H-Series Performance Bearing Wall .0005* Thinner For .0010" More Oil Clearance No Dowel Hole In Cap Half, Machined Connecting Rod		<i>TM-112</i>	<b>CB-1413HX</b>	6
	1998-2002	Machined Connecting Rod		<i>TM-112</i>	<b>CB-1413P</b> CB-1413P-.25mm CB-1413P-.50mm	6

## Pour moteurs non chemisés

Les nécessaires de réalésage MAHLE Clevite comprennent les composants suivants : pistons, axes de piston, anneaux de blocage et segments de piston. Selon l'application, ces pièces sont dotées des caractéristiques conceptuelles contemporaines indiquées ci-dessous.

### Pistons

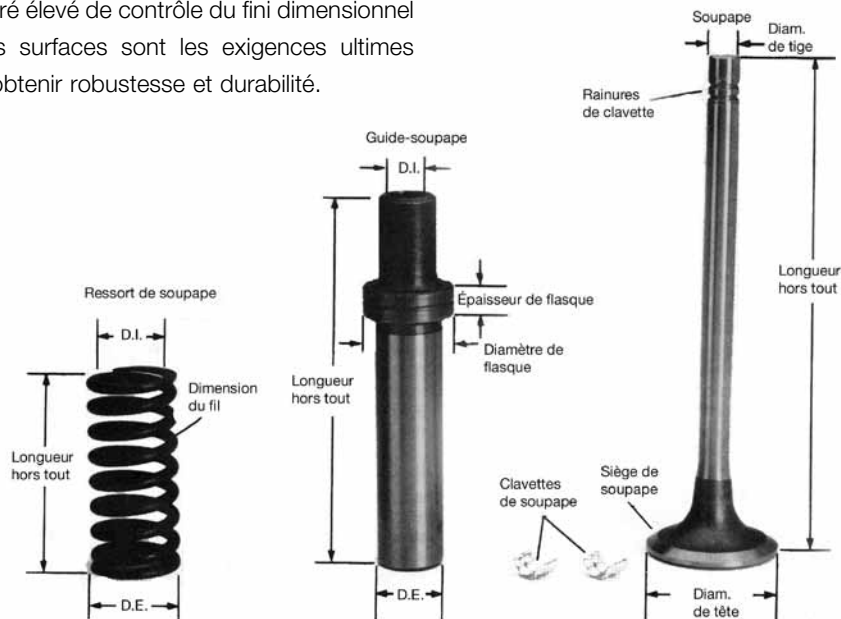
1. Rainures supérieures en Ni-Résist afin de minimiser l'usure.
2. Équilibrage qui favorise un fonctionnement doux du moteur.

### Axes de piston

1. En acier à haute résistance qui répond aux exigences structurelles afin de prévenir le bris ou la déflexion de l'axe.
2. Acier cémenté qui procure des surfaces d'usure de longue durée.
3. Un degré élevé de contrôle du fini dimensionnel et des surfaces sont les exigences ultimes pour obtenir robustesse et durabilité.

### Segments de piston

1. Les plus récents matériaux à haute résistance sont utilisés afin de prévenir les bris causés par la fatigue du métal.
2. Le fini extérieur est plaqué chrome et molybdène pour former des surfaces d'usure d'une grande durabilité.
3. Les segments racleurs en acier chromé et nitruré favorisent un bon contrôle de l'huile.





# Terminologie relative aux ensembles de joints d'étanchéité

### Ensemble complet de joints d'étanchéité

Comprend tous les joints d'étanchéité normalement requis pour un démontage complet du moteur ou une révision complète au banc, y compris les bagues d'huile standards avant et arrière.

### Ensemble de joints d'étanchéité pour révision sur le véhicule

Comprend tous les joints d'étanchéité normalement requis pour faire une révision complète directement sur le véhicule. Comprend tous les joints requis pour la dépose et le remplacement d'une culasse et de tous les cylindres, ainsi que le joint de carter

### Ensemble de joints de culasse

Comprend tous les joints d'étanchéité requis pour la dépose et le remplacement d'une culasse. Au moment de commander des ensembles de joints de culasse, il faut faire attention, car les ensembles peuvent être offerts pour un seul cylindre, pour tous les cylindres ou pour un moteur complet. Il arrive parfois que plusieurs ensembles soient nécessaires pour réparer tous les cylindres d'une culasse sur un moteur. Certains ensembles de joints de culasse offerts comportent des joints surdimensionnés pour compenser l'usinage des composants.

### Ensemble de joints de carter d'huile

Comprend tous les joints d'étanchéité requis pour la dépose et le remplacement d'un carter d'huile.

### Joint de culasse

Comprend un seul joint de culasse, mais aucun joint auxiliaire. Ces derniers sont offerts séparément pour les applications populaires. Certains joints de culasse offerts sont surdimensionnés pour compenser l'usinage des composants.

### Ensemble pour carter de distribution

Comprend tous les joints et bagues d'étanchéité standard normalement requis pour accéder aux chaînes de distribution ou aux engrenages et pour les réparer. Certains ensembles comportent aussi des manchons pour la réparation du vilebrequin.

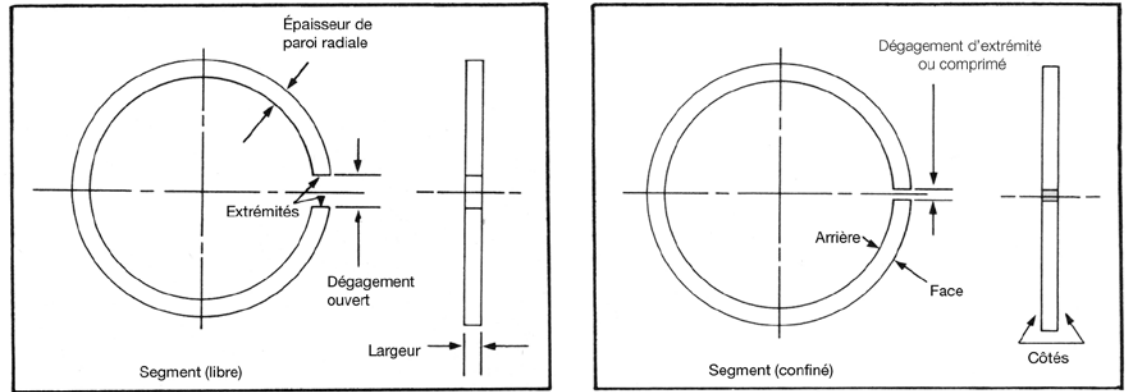
### Ensemble de joints de tubulure

Comprend tous les joints d'étanchéité normalement requis pour la dépose et le remplacement d'une tubulure d'admission ou d'échappement. Les ensembles pour tubulure d'admission et pour tubulure d'échappement doivent être commandés séparément et sont offerts pour les applications populaires.

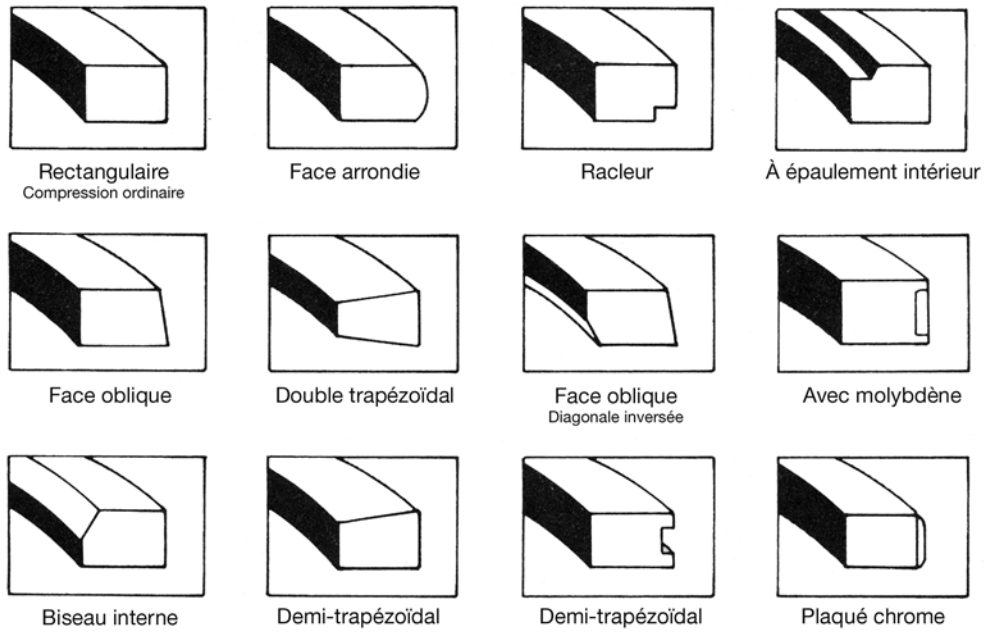
### Ensemble pour couvercles de soupapes et couvercles de tiges de culbuteurs

Comprend tous les joints d'étanchéité normalement requis pour la dépose et le remplacement des couvercles de soupapes ou de tiges de culbuteurs. Les ensembles pour couvercles de soupape et les ensembles pour couvercles de tiges de culbuteurs doivent être commandés séparément et sont offerts pour les applications populaires.

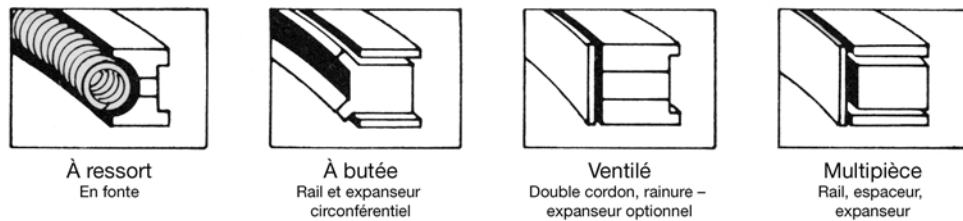
# Styles de segments de piston



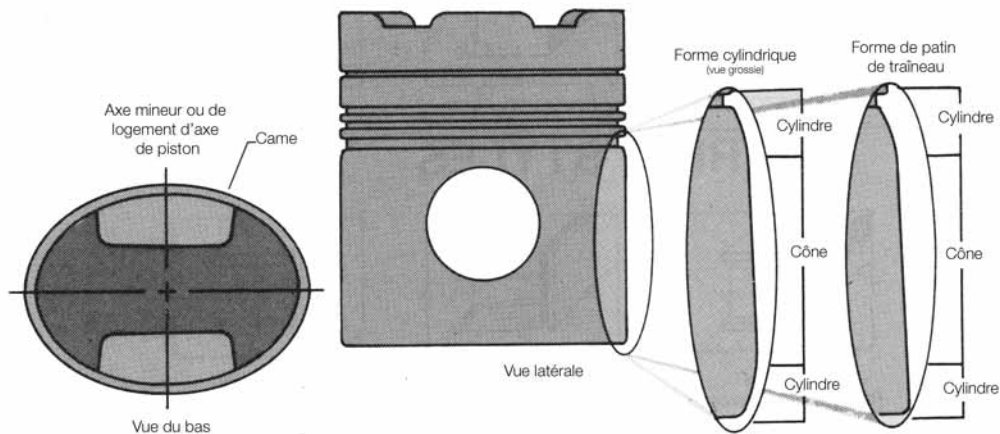
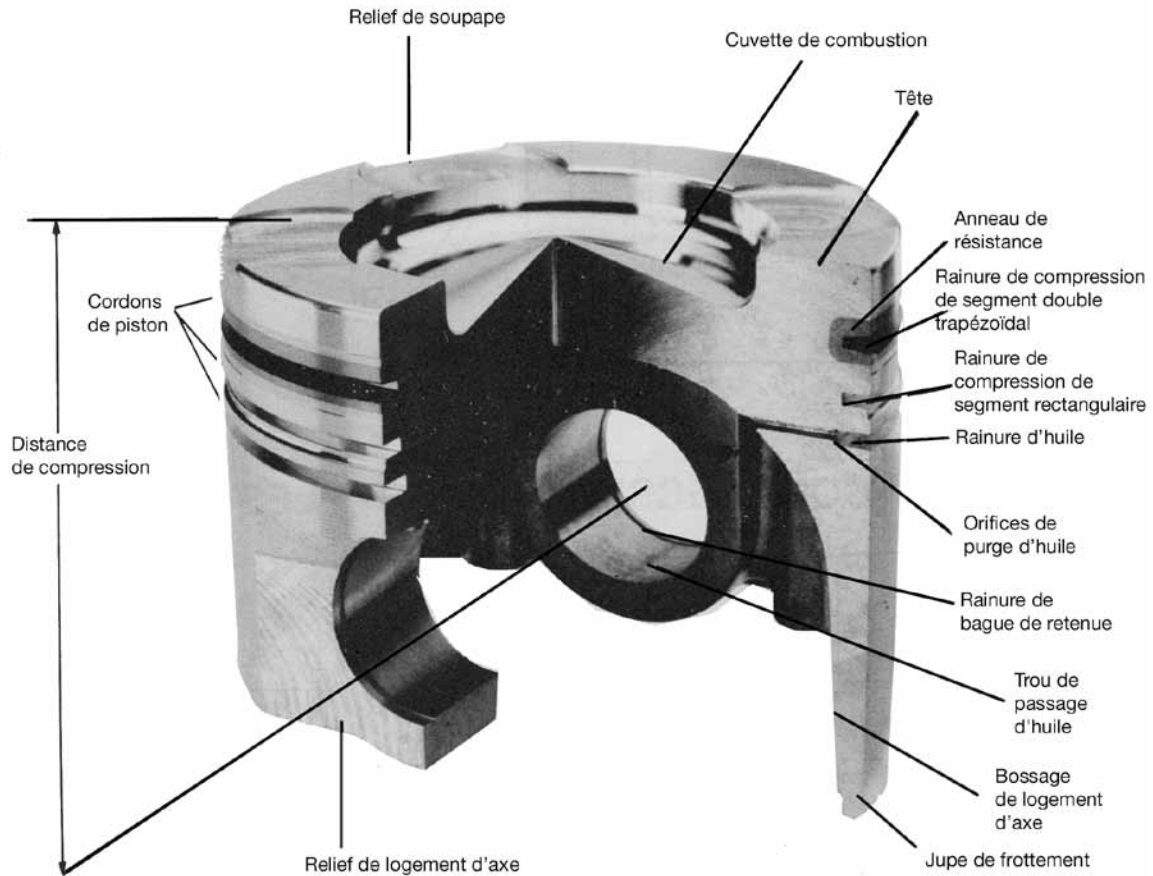
## Styles de segments de piston



## Styles de segments racleurs d'huile

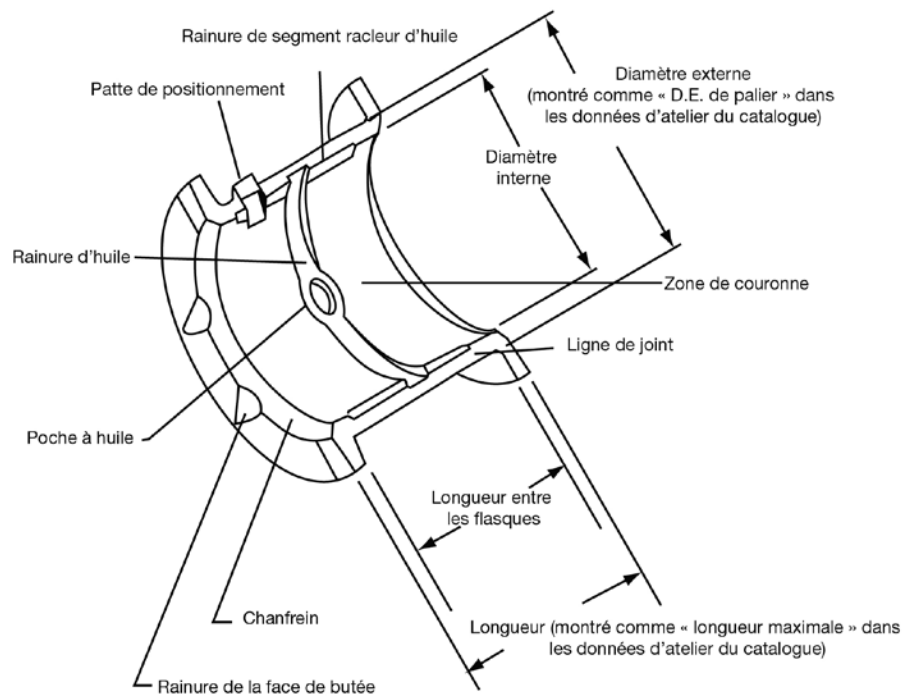
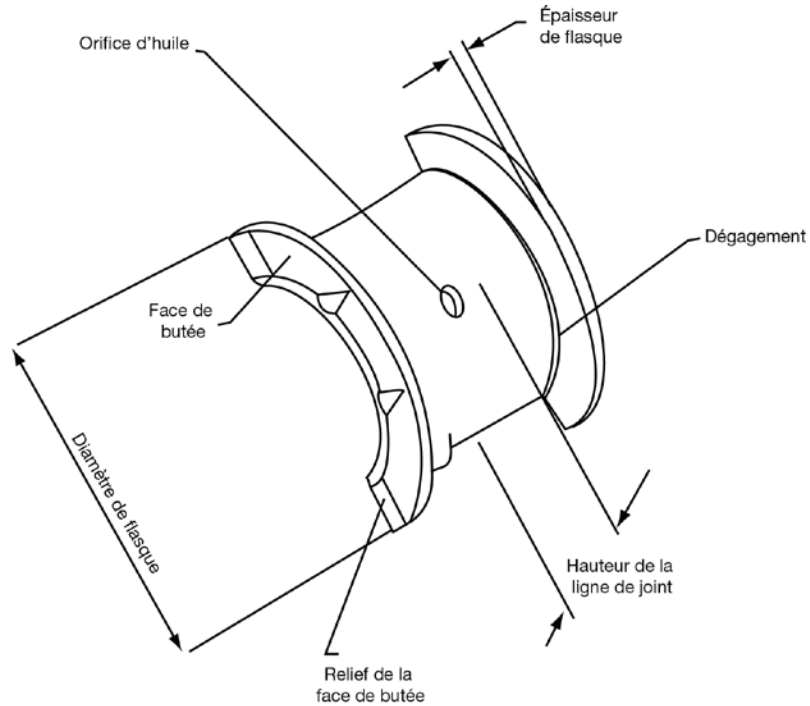


# Nomenclature du piston



français

# Nomenclature des coussinets



# Terminologie relative aux coussinets

## Diamètre externe de coussinet ou alésage de carter

Le diamètre minimal ou maximal de l'orifice pratiqué dans le bloc-moteur ou la bielle.

## Tassement

Lorsque le coussinet est à moitié inséré à sa place dans l'alésage du carter, un peu du coussinet dépasse de l'alésage du carter. Une fois que l'assemblage est serré selon les spécifications recommandées, une pression s'exerce sur le D.E. du coussinet, entraînant l'effet d'une insertion à la presse. Le tassement contribue aussi à la distorsion de l'alésage ainsi qu'au transfert thermique en augmentant le contact de surface avec le coussinet et l'alésage. Les coussinets de haute performance Clevite ont un tassement accru pour favoriser un meilleur transfert thermique et une bonne rétention. Le degré de tassement varie selon l'application.

## Excentricité

Une réduction graduelle de l'épaisseur de la paroi d'un coussinet, de la couronne jusqu'à environ 0,380 po des lignes de joint.

## Rainure annulaire pleine

Coussinet comportant une rainure d'huile

pratiquée depuis sa ligne de joint jusqu'à la ligne de joint de la surface interne de la demi-coque. Lorsque les deux moitiés rainurées sont jointes, une rainure se crée dans la surface interne sur toute la circonférence du Coussinet.

## Diamètre interne

The distance between the inner surfaces of the assembled bearing.

## Jeu A/B principal

Jeu d'anneaux de butée principal.

## Longueur maximale du coussinet

La longueur maximale qu'un coussinet peut avoir (flasque comprise, le cas échéant). La longueur réelle est normalement moindre.

## Diamètre d'arbre standard

Diamètre minimum à maximum d'un tourillon de vilebrequin principal standard, d'un tourillon de bielle ou d'une portée d'arbre à cames.

## Jeu fonctionnel vertical

La différence, après assemblage, entre le diamètre interne du coussinet et le diamètre externe de l'arbre, mesuré à partir d'un angle de 90° des lignes de joint du coussinet.

## Désignation des matériaux pour coussinet

### AL-3

Alliage d'aluminium monté sur acier, sans couche antifriction

### B-1

Étamé ou avec alliage de babbitt (.020" d'épaisseur) monté sur acier

### C-1

Matrice cuproplomb monté sur acier, sans couche antifriction

### TM-77/TM-112

À couche intermédiaire de cuproplomb monté sur acier à couche electrolytique et métal anti-friction à base de plomb (non redimensionnable)



# Terminologie relative Ensembles (kits) de moteurs

## Jeux et ensembles (MK)

Contient les pistons, segments, coussinets de bielle, coussinets, coussinets de came, came et poussoirs de soupapes, composantes de distribution, joints, pompe à l'huile, bouchons expansible

## Ensemble de segments (RR)

Inclus les segments, joints et coussinets de bielle.

## Jeux et ensembles incomplets (MKI)

Contient les segments, pistons, coussinets de bielles, coussinets et joints d'étanchéité.

## Ensembles coussinets (RM)

Inclus les segments, joints, coussinets de bielles, et coussinets.



# Numéros d'identification des pièces

Les numéros figurant sous les rubriques ci-dessous correspondent aux numéros d'identification des pièces figurant dans les pages suivantes. Ces numéros vous aident à trouver nos numéros de pièce, la nomenclature, le préfixe ou le suffixe des pièces courantes de notre ligne de produits

## Engine

Série	Description
211-1000	Soupapes
212-1000	Ressorts de soupape
213-1000	Poussoirs de soupape
214-1000	Pièces de culbuteur
214-2000	Culbuteurs
215-4000	Tiges de culbuteur
216-1000	Joints de tiges de soupape
216-2000	Mécanismes rotatifs
216-3000	Assemblages de couvercles rotatifs
216-4000	Dispositifs de retenue de ressorts de soupape
216-5000	Clavettes de soupape
216-7000	Pièces de fixation de moteur
217-3000	Guide-soupapes
218-3000	Sièges de soupape rapportés
219-	Bouchons expanseurs
223-1000	Axes de piston
223-3000	Coussinets d'axes de piston
223-5000	Bagues de blocage
223-7000	Joints toriques
223-8000	Cales, bagues rapportées
224-1000	Pistons
226-1000	Assemblages de chemise
226-4000	Chemises
226-8000	Chemises de rechange
229-1000	Arbres à cames
230-1000	Assemblages de culbuteurs
230-3000	Axes de culbuteurs
247-5000	Vilebrequins
601-3000	Refroidisseurs d'huile
A-B-C	Ressorts de soupape rapportés
8-	Pignons de distribution
9-	Roues dentées et chaînes
S-	Roues dentées de pignon de distribution

## Filtres

OC	Filtre à huile
KC	Filtre

## Suffixe – turbocompresseurs

-000	Pièce neuve
-100	Pièce réusinée selon les normes de l'ÉO

## Joints d'étanchéité

Série	Description
40000 & 60000	Joints principaux arrière/de carter de distribution
43-5999	Joints de culasse (simple)
CH-	Joints de culasse (multiple)
CS-	Ensemble pour conversion « inférieure »
EK-	Ensemble pour révision au banc
FS-	Ensembles complets de joints d'étanchéité
HS-	Ensemble de joints de culasse « supérieurs »
JV-	Ensemble de joints principaux arrière ou pour carter de distribution
MS-	Ensemble pour tubulure d'admission ou d'échappement
OS-	Ensemble de joints d'étanchéité de carter d'huile
PS-	Ensemble de joints d'étanchéité de couvre-tiges de culbuteurs (latérales)
SS-	Joint principal avant ou arrière (avec chemise de rechange)
VS-	Ensemble de joints de couvercle de culasse

## Coussinets

223-3000	Coussinets d'axes de piston
CB-	Coussinet de bielle
MB-	Coussinet de vilebrequin individuel
MS-	Ensemble de coussinets de vilebrequin
SH-	Coussinet de came
SM-	Ensemble de cales d'espacement
TW-	Anneau de butée

## Suffixes des Coussinets

-AL	Alliage d'aluminium ou joint renforcé d'une garniture en alliage d'aluminium
-B	Acier ou bronze renforcé d'une garniture antifriction
-C	Acier renforcé d'une garniture en cuproplomb
-G	Acier renforcé d'une matrice en cuproplomb trimétal
-F	Coussinet à flasque
-M	Acier renforcé d'une microgarniture antifriction
-P	Couche intermédiaire trimétal en alliage de cuproplomb avec renfort d'acier et doublage électroplaqué en plomb étamé de 0,001 po
-S	Indique un « ensemble »
-W	Anneau de butée — WL-inférieure, WU-supérieure



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(Lunes - Viernes)**

El uso de productos MAHLE Original, Clevite y Victor Reinz en aeronaves u otro tipo de equipo especial, puede ser una violación de leyes locales, estatales o de la Agencia Federal de Regulaciones.

Estos productos están destinados exclusivamente para aplicaciones automotrices. Bajo ninguna circunstancia deben utilizarse en aplicaciones que no sean automotrices, incluyendo sin limitaciones a motores de aeronaves, equipos médicos, aparatos de energía atómica y reactores.

Leyes federales, estatales y locales restringen el retiro, hacer inoperante o en algunos casos la modificación de los dispositivos o sistemas de emisiones de fábrica. El estado de California restringe el uso de componentes que puedan incrementar emisiones en las unidades utilizadas en calles o carreteras públicas, además de

la venta o instalación de ciertos componentes no aprobados por el "California Air Resources Board," los cuales alteran o modifican el diseño original del sistema de control de emisiones. Algunos de los componentes indicados y ofertados para venta en este catálogo pueden encontrarse dentro de las restricciones antes descritas. Tales componentes están destinados a utilizarse en vehículos todo terreno (off-road) que participan en diferentes competencias o en otro tipo de vehículos que están exentos de las leyes aplicables para el control de emisiones. La instalación de estos componentes en vehículos sujetos a dichas leyes pueden estar prohibidos.

MAHLE recomienda revisar las leyes aplicables para el control de emisiones antes de considerar la instalación de este tipo de componentes o partes modificadas.


*Teflon y Viton son marcas registradas de DuPont Corporation.*

# Como utilizar este catálogo

**Sección de bloques:** localice el número de bloque correspondiente a través del índice de modelos en la parte delantera de la sección

Cada bloque tiene la siguiente información correspondiente al número de parte:

1. Número de bloque y detalles de la aplicación para el motor
2. Modelos de motor
3. Categoría de productos
4. Descripción de productos
5. Notas de productos y aplicaciones
6. Intercambios con equipo original
7. Número de parte
8. Cantidad por motor

1 2		359 CID (5.9L) 24V Turbo L6 4.0" (102.0mm) Cummins ISB DIESEL			2		
VIN Code: '6 [ETC]' (1998-2002)							
CYLINDER BLOCK PARTS							
Piston	1998-2002		Head Type: Reentrant Bowl Non-HO, Grade A		6 <i>aluminum</i>	224-3355 224-3355.020 224-3355.030 224-3355.040	6
Piston w/Rings	1998-2002		Contents: 224-3355, S41518 Piston Rings Not Installed			225-3355 225-3355.020 225-3355.030 225-3355.040	6
Piston Ring Set	1998-2002		<b>Comp Rings</b> 1 3.00mm 1 2.35mm	<b>Oil Ring</b> 1 4.00mm	<i>Chrome Ductile Iron</i>	<b>S41518</b> S41518. S41518.040	6
	1998-2002		<b>Comp Rings</b> 1 3.00mm 1 2.39mm	<b>Oil Ring</b> 1 4.00mm	<i>Ceramic Chrome Ductile Iron</i>	<b>S42170</b> S42170.020 S42170.040	6
3 ENGINE BEARINGS							
Rod Bearing	1998-2002		H-Series Performance No Dowel Hole In Cap Half, Machined Connecting Rod		<i>TM-112</i>	<b>CB-1413H</b> CB-1413H-.026mm CB-1413H-.25mm	6
	1998-2002		H-Series Performance Bearing Wall .0005* Thinner For .0010" More Oil Clearance No Dowel Hole In Cap Half, Machined Connecting Rod		<i>TM-112</i>	<b>CB-1413HX</b>	6
	1998-2002		Machined Connecting Rod		<i>TM-112</i>	<b>CB-1413P</b> CB-1413P-.25mm CB-1413P-.50mm	6

## Para Motores no Encamisados

Los kits de reparación MAHLE incluyen los siguientes componentes: pistones, anillos para pistón, seguros y pernos. Dependiendo de la aplicación, las características de diseño y ventajas incluidas se enlistan a continuación.

### Pistones

1. Ranuras superiores con tecnología Ni-resist para controlar el desgaste de la misma.
2. Balanceados para una suave operación del motor.

### Pernos para Pistón

1. Aceros de alta resistencia que cumplen con los requisitos estructurales que evitan su fractura o deformación.
2. Cuerpo endurecido que proporciona una superficie resistente al desgaste.
3. Un alto grado de control dimensional y un acabado final son los requisitos para dar fuerza y una larga vida útil.

### Anillos para Pistón

1. Una nueva tecnología y materiales de alta resistencia que evitan una fractura por fatiga.
2. Superficies de contacto recubiertas con molibdeno o cromo que proporcionan superficies de larga duración.
3. Anillos de acero con cromo y nitrurados que ofrecen un excelente control de aceite.



# Terminología Juegos de Juntas

## Juego de Juntas Completo

Incluye todas las juntas necesarias para una reparación completa, incluye los retenes frontal y trasero.

## Medio Juego de Juntas

Incluye todas las juntas necesarias para hacer una media reparación. Esto incluye todas las juntas para remover la cabeza de cilindros y el cárter.

## Juego de Juntas para Cabeza

Incluye todas las juntas necesarias para remover e instalar la cabeza de cilindros. Debe de tenerse la precaución al solicitar el producto ya que suelen ofrecerse juegos para un solo cilindro, todos los cilindros o juegos completos de motor. Existen casos en los que se requerirán varios juegos para todas las cabezas de cilindros en un motor. Algunas juntas para cabeza están disponibles en diferentes sobre medidas con el fin de compensar el maquinado de componentes.

## Juego de Juntas para Cárter

Incluye todas las juntas necesarias para remover e instalar el cárter.

## Junta de Cabeza

Incluye solamente una sola junta. Están disponibles de forma separada para diferentes aplicaciones populares. Algunas juntas para cabeza están disponibles en diferentes sobre medidas con el fin de compensar el maquinado de componentes.

## Juego de Juntas para Tapa de Distribución

Incluye todas las juntas y retenes que normalmente se requieren para dar servicio al sistema de distribución. Algunos juegos pueden incluir una camisa de reparación para el cigüeñal.

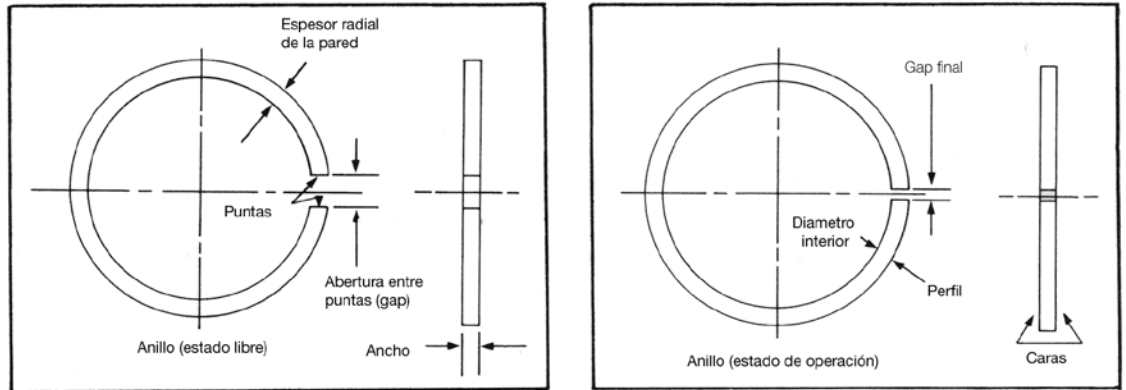
## Juego de Juntas para Múltiples

Incluye todas las juntas necesarias para desmontar e instalas los múltiples de admisión o escape. Los juegos de admisión y escape deben ser ordenados de forma independiente y estan disponibles para diferentes aplicaciones populares.

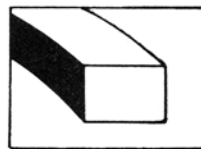
## Juego de Juntas para Tapa de Punterías o Tapa de Varillas de Empuje

Incluye todas las juntas necesarias para desmontar e instalar las tapas de punterías o varillas de empuje. Estos juegos deben ser ordenados de forma independiente y estan disponibles para diferentes aplicaciones populares.

## Tipos de Anillos para Pistón



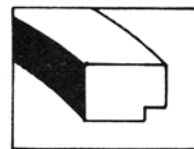
### Tipos de Anillos para Compresión



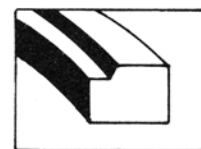
Rectangular  
Compresión plana



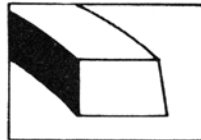
Perfil tipo barril



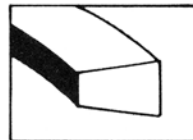
Perfil tipo rascador



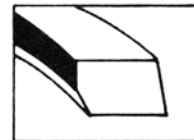
Con ranura  
interior superior



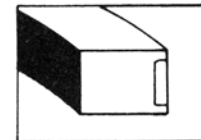
Perfil angular



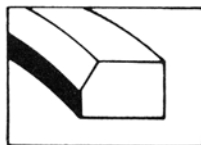
Tipo trapezoidal  
« keystone »



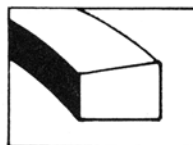
Perfil angular  
Bisel opuesto



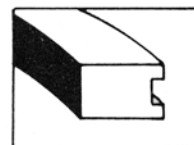
Con recubrimiento  
de molibdeno



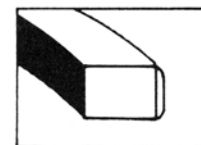
Perfil angular con bisel



Semi trapezoidal  
« keystone »

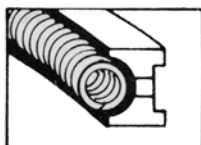


Perfil ranurado

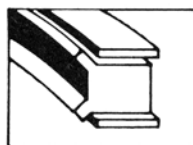


Con recubrimiento  
de cromo

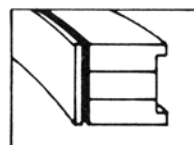
### Tipos de Anillos para Control de Aceite



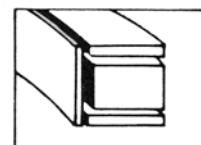
Resorte de carga  
de hierro fundido



Tipo pilar  
Riel y expansor  
circunferencial

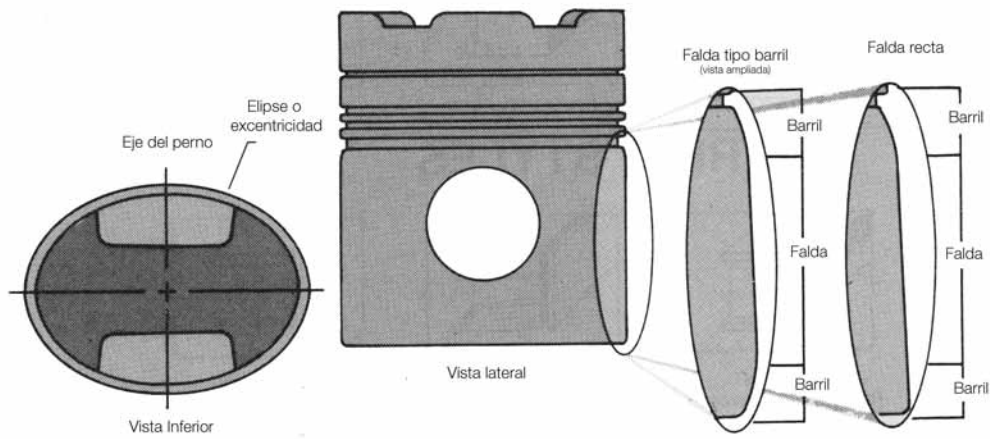
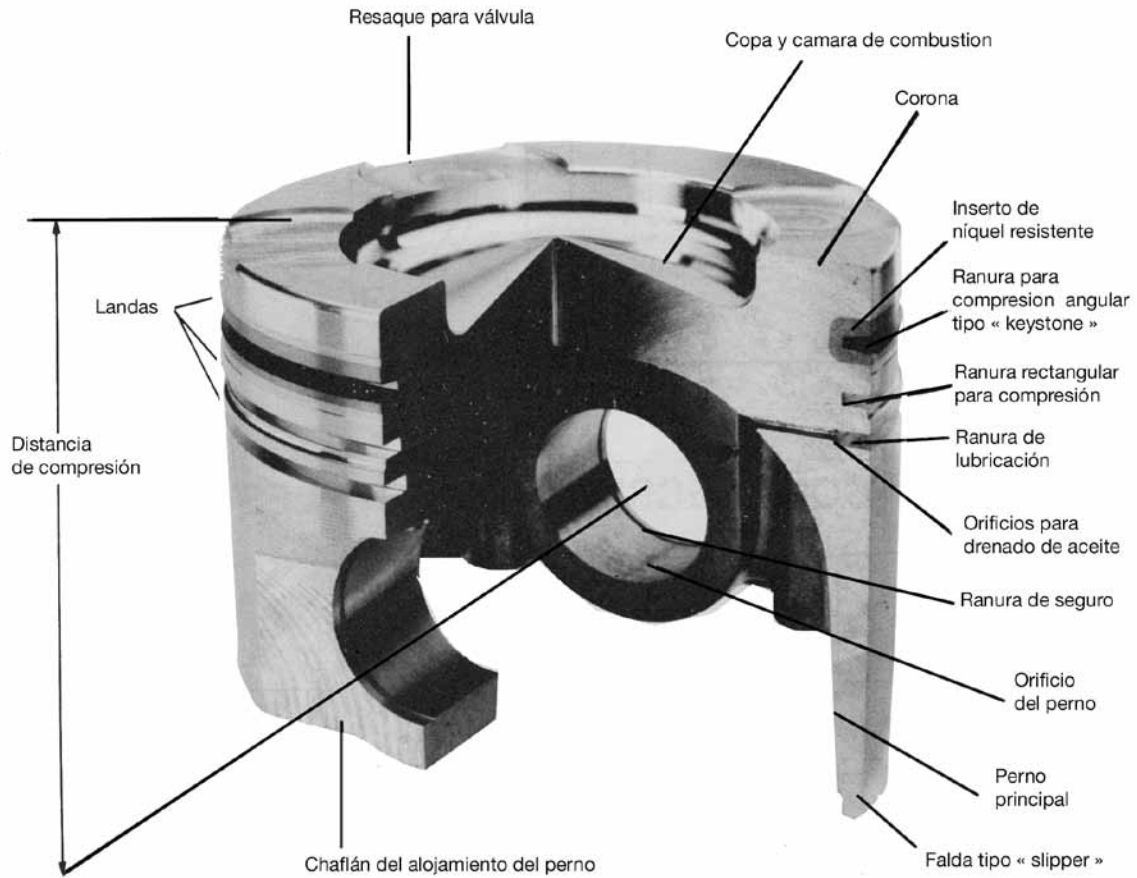


Tipo ventilado  
doble ranura –  
expansor opcional



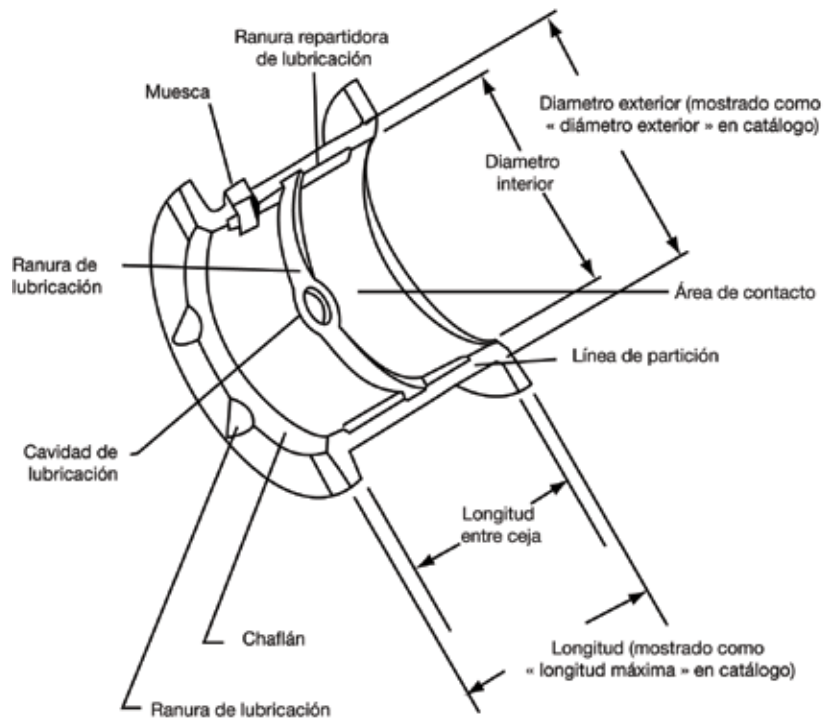
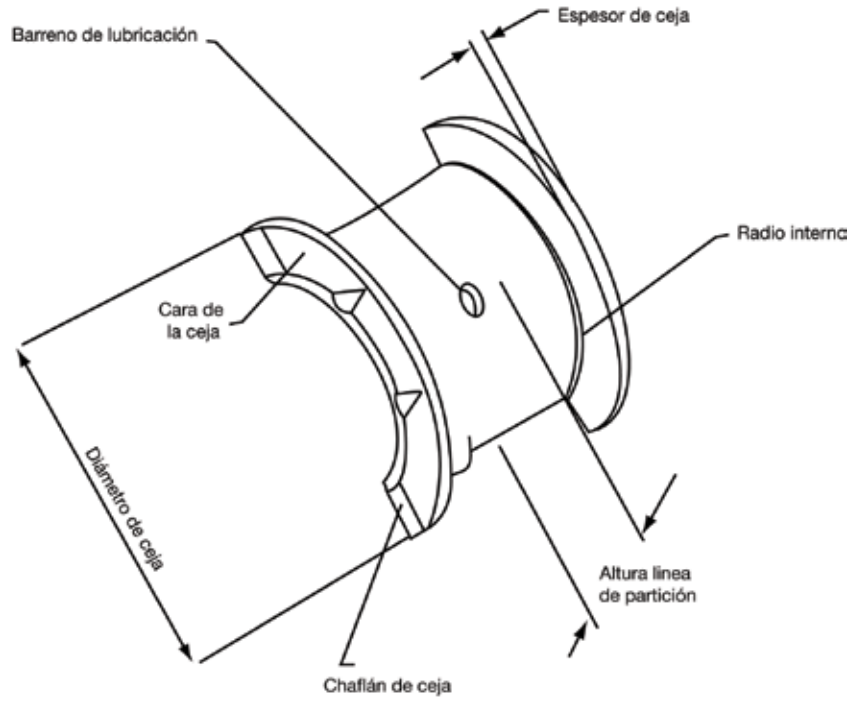
Piezas múltiples  
Riel, espaciador,  
expansor

# Nomenclatura Pistones



español

# Nomenclatura Cojinetes





# Terminología de Cojinetes

## **Diámetro Exterior o del Alojamiento**

Indica el diámetro mínimo o máximo del alojamiento en el block o la biela.

## **Resaque (Crush)**

Cuando el cojinete es colocado en su alojamiento, existe una pequeña saliente en la parte superior. Cuando se realiza la operación de torque a las especificaciones correctas, se ejerce una fuerza interior que origina una presión hacia el diámetro exterior, lo que ajusta al cojinete adecuadamente en su alojamiento. Este resaque o crush, también ayuda en la transferencia y disipación de temperatura, ya que se incrementa la superficie de contacto entre el cojinete y su alojamiento. Los cojinetes de alto rendimiento de Clevite cuentan con las mejores características para una mejor retención y disipación de temperatura. El resaque o crush podrá variar y dependerá de cada aplicación.

## **Excentricidad**

Una reducción gradual en el espesor del material de fricción del cojinete que inicia justo a la mitad y termina aproximadamente a .380" de las líneas de partición.

## **Ranura de Lubricación**

Los cojinetes cuentan con una ranura de lubricación al centro del material de fricción. Cuando las dos ranuras de unen, se crea

una ranura interna de lubricación en toda la circunferencia del cojinete.

## **Diámetro Interno**

Es la distancia entre la superficie interna del material de fricción del cojinete instalado.

## **Juego de Arandelas de Empuje**

Juego principal de arandelas de empuje.

## **Longitud Máxima del Cojinete**

Es la longitud máxima que el cojinete debe tener (incluyendo la ceja cuando aplique). La longitud real es generalmente menor a su valor.

## **Espesor Máximo de Pared**

El espesor máximo del cojinete se encuentra a 90° de las líneas de partición. El espesor real es generalmente menor a su valor.

## **Diámetro Estándar del Muñon del Cigüeñal**

Se refiere a la medida estándar mínima o máxima, de los muñones principales o de biela del propio cigüeñal o los muñones del árbol de levas.

## **Tolerancia de Lubricación**

Es la diferencia entre el diámetro interior del ensamble de los cojinetes y el diámetro exterior del muñon del cigüeñal, medido a 90° de las líneas de partición (utilice plastigage).

## Designaciones de Materiales en Cojinetes

### **AL-3**

Respaldo de acero, aleación de aluminio sin recubrimiento

### **C-1**

Respaldo de acero, aleación cobre-plomo sin recubrimiento

### **B-1**

Respaldo de acero, babbitt convencional y estaño (0.020" de espesor nominal)

### **TM-77/TM-112**

Respaldo de acero, aleación intermedia de cobre-plomo y un recubrimiento por galvanoplastia (espesor de precisión)



## Terminología de kits para motor

### **Juegos Master (MK)**

Componentes incluidos: pistones, anillos, cojinetes de biela, cojinetes de bancada, bujes para arboles de levas, arboles de levas y punterías, componentes de distribución, juntas, bombas para aceite y tapones de monoblock

### **Juegos Para Medios-Ajustes (RM)**

Componentes incluidos: anillos, juntas y cojinetes de biela.

### **Juegos Para Re-Anillado (RR)**

Componentes incluidos: anillos, juntas y cojinetes de biela.

### **Juegos Master Incompletos (MKI)**

Componentes incluidos: pistones, cojinetes de biela, cojinetes de bancada y juntas.



# Identificación de números de parte

Los números que aparecen a continuación con sus títulos, corresponden al número de referencia o identificación que figuran en las páginas siguientes. Éstos ayudan a identificar nuestros números de parte, nomenclatura, prefijo o sufijo y para los componentes comunes de nuestra línea de productos.

## Motor

Serie	Descripción
211-1000	Válvulas
212-1000	Resorte para Válvula
213-1000	Punterías
214-1000	Componentes para Balancines
214-2000	Balancines
215-4000	Varillas de Empuje
216-1000	Sellos de Válvulas
216-2000	Mecanismo para Rotación
216-3000	Ensamble Tapa de Rotador
216-4000	Retenedores para Resortes de Válvulas
216-5000	Seguros de Válvula
216-7000	Elementos de Fijación del Motor
217-3000	Guías de Válvulas
218-3000	Asientos de Válvulas
219-	Tapones de Monoblock
223-1000	Pernos para Pistón
223-3000	Bujes para Pernos de Pistón
223-5000	Seguros
223-7000	Sellos ("O" Rings)
223-8000	Calzas, insertos
224-1000	Pistones
226-1000	Ensamblados
226-4000	Camisas
226-8000	Camisas Semi Terminadas
229-1000	Árboles de Levas
230-1000	Ensamblados de Balancines
230-3000	Eje de Balancines
247-5000	Cigüeñales
601-3000	Enfriadores para Aceite
A-B-C	Insertos para Resortes de Válvulas
8-	Engranajes de Distribución
9-	Catarinas (Sprockets) y Cadenas
S-	Catarinas (Sprockets) de Distribución

## Filtros

OC	Filtro para Aceite
KC	Filtro para Combustible

## Sufijos Turbocargadores

-000	Nuevo
-100	Remanufacturado a Especificaciones de Equipo Original

## Juntas

Serie	Descripción
40000 & 60000	Retenes Frontales/Traseros
43-5999	Junta para Cabeza de Cilindros (sencilla)
CH-	Junta para Cabeza de Cilindros (varias)
CS-	Juego para Conversión "Inferior"
EK-	Juegos de Media Reparación
FS-	Juego de Juntas Completo
HS-	Juego de Juntas para Cabeza "Superior"
JV-	Juegos de Reten Trasero o Tapa de Distribución
MS-	Juegos para Múltiples de Admisión o Escape
OS-	Juegos de Juntas para Cáster
PS-	Juego de Juntas para Tapa de Varillas de Empuje (lateral)
SS-	Sello Frontal o Trasero (incluye camisa)
VS-	Juego de Juntas para Tapa de Balancines

## Cojinetes

223-3000	Bujes para Pernos de Pistón
CB-	Cojinetes de Biela
MB-	Cojinete Individual de Bancada
MS-	Juego de Cojinetes de Bancada
SH-	Cojinete de Árbol de Levas
SM-	Juego de Arandelas
TW-	Arandelas de Empuje

## Sufijo Cojinetes

-AL	Aleación de Aluminio o Revestimiento de Aleación de Aluminio
-B	Respaldo de Acero o Bronce con Revestimiento de Babbit
-C	Respaldo de Acero con Revestimiento de Cobre - Plomo
-G	Respaldo de Acero con Revestimiento TriMetal Cobre - Plomo
-F	Cojinete con Ceja
-M	Respaldo de Acero con Revestimiento de Micro Babbit
-P	Respaldo de Acero con Capa Intermedia TriMetal Cobre - Plomo y Revestimiento de .001" de Babbit
-S	Indica "Juego"
-W	Arandela WL-Inferior, WU-Superior

ENGINE	YEAR	BLOCK
359 CID (5.9L) 12V Turbo. L6 Cummins 6BT DIESEL	1991-1999	1
359 CID (5.9L) 24V Turbo. L6 Cummins ISB DIESEL	1998-2002	2
359 CID (5.9L) 24V Turbo. L6 Cummins ISB HO DIESEL	2001-2002	3
359 CID (5.9L) 24V Turbo. L6 Cummins ISBe/QSB DIESEL	2003-2005	4
359 CID (5.9L) 24V Turbo. L6 Cummins ISBe/QSB HO DIESEL	2003-2010	5
359 CID (5.9L) 12V Turbo. L6 Cummins DIESEL	1988-1991	6
408 CID (6.7L) 24V Turbo. L6 Cummins DIESEL	2007-2012	7

MODEL	ENGINE	YEAR	BLOCK
4500	408 CID (6.7L) 24V Turbo L6 4.210" (107.0mm) Cummins ETJ DIESEL	2011-2012	7
5500	408 CID (6.7L) 24V Turbo L6 4.210" (107.0mm) Cummins ETJ DIESEL	2011-2012	7
D-Series	359 CID (5.9L) 12V Turbo L6 4.016" (102.0mm) Cummins 6BT DIESEL	1991-1993	1
D-Series	359 CID (5.9L) 12V Turbo L6 4.016" (102.0mm) Cummins DIESEL	1988-1991	6
Ram	359 CID (5.9L) 12V Turbo L6 4.016" (102.0mm) Cummins 6BT DIESEL	1994-1999	1
Ram	359 CID (5.9L) 24V Turbo L6 4.016" (102.0mm) Cummins ISB ETC DIESEL	1998-2002	2
Ram	359 CID (5.9L) 24V Turbo L6 4.016" (102.0mm) Cummins ISB HO ETH DIESEL	2001-2002	3
Ram	359 CID (5.9L) 24V Turbo L6 4.016" (102.0mm) Cummins ISBe/QSB ETC DIESEL	2003-2005	4
Ram	359 CID (5.9L) 24V Turbo L6 4.016" (102.0mm) Cummins ISBe/QSB HO ETH DIESEL	2003-2010	5
Ram	408 CID (6.7L) 24V Turbo L6 4.210" (107.0mm) Cummins ETJ DIESEL	2007-2012	7
W-Series	359 CID (5.9L) 12V Turbo L6 4.016" (102.0mm) Cummins 6BT DIESEL	1991-1993	1
W-Series	359 CID (5.9L) 12V Turbo L6 4.016" (102.0mm) Cummins DIESEL	1988-1991	6

PART	YEAR	VIN/ENG CODE	NOTES	MATERIAL	PART NUMBER	ENG QTY
<b>1</b>			<b>359 CID (5.9L) 12V Turbo L6 4.016" (102.0mm) Cummins 6BT DIESEL</b> VIN Codes: 'C' (1991-1996), 'D' (1997-1999)			<b>1</b>

### ENGINE KITS

<b>Re-Ring Kit</b>	1991-1995		with 3.00mm Top Compression Ring; Except Intercooled Engine Contents: S41518(6), CB-1413P(6), CS4068, HS4068	<b>RR959</b>	1
<b>ReMain Kit</b>	1991-1995		with 3.00mm Top Compression Ring; Except Intercooled Engine Contents: S41518(6), CB-1413P(6), MS-1717P, CS4068, HS4068	<b>RM959</b>	1

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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<b>1</b> (cont.)	<b>359 CID (5.9L) 12V Turbo L6 4.016" (102.0mm) Cummins 6BT DIESEL</b> VIN Codes: 'C' (1991-1996), 'D' (1997-1999)					<b>1</b> (cont.)
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**CYLINDER BLOCK PARTS**

<b>Piston</b>	1994-1998		Head Type: Reentrant Bowl Grade B, 44.5cc bowl volume		Aluminum	<b>224-3513</b> 224-3513.020 224-3513.030 224-3513.040	6
	1994-1998		Head Type: Reentrant Bowl Compression Height: Reduced .010" Grade B, 44.5cc bowl volume		Aluminum	<b>224-3514</b> 224-3514.020 224-3514.030 224-3514.040	6
	1994-1998		Head Type: Reentrant Bowl Grade A, 44.5cc bowl volume		Aluminum	<b>224-3515</b> 224-3515.020 224-3515.030 224-3515.040	6
	1994-1998		Head Type: Reentrant Bowl 45.4cc bowl volume		Aluminum	<b>224-3520</b> 224-3520.020 224-3520.030 224-3520.040	6
	1991		Head Type: Reentrant Bowl 47.1cc bowl volume		Aluminum	<b>224-3523</b> 224-3523.020 224-3523.030 224-3523.040	6
	1991		Head Type: Reentrant Bowl 43.2cc bowl volume		Aluminum	<b>224-3525</b> 224-3525.020 224-3525.030 224-3525.040	6
	1991		Head Type: Reentrant Bowl Naturally Aspirated, 44.5cc bowl volume		Aluminum	<b>224-3526</b> 224-3526.020 224-3526.030 224-3526.040	6
<b>Piston w/Rings</b>	1994-1998		Contents: 224-3520, S41518 Piston Rings Not Installed			<b>225-3520</b> 225-3520.020 225-3520.040	6

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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<b>1</b> (cont.)	<b>359 CID (5.9L) 12V Turbo L6 4.016" (102.0mm) Cummins 6BT DIESEL</b> VIN Codes: 'C' (1991-1996), 'D' (1997-1999)					<b>1</b> (cont.)
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**CYLINDER BLOCK PARTS (CONT.)**

<b>Piston w/Rings (cont.)</b>	1991		Contents: 224-3523, S41518 Piston Rings Not Installed		<b>225-3523</b> 225-3523.020 225-3523.040	6
<b>Piston Ring Set</b>	1991-1998		<b>Comp Rings</b> <b>Oil Ring</b> <i>Chrome Ductile Iron</i> 1 3.00mm      1 4.00mm 1 2.35mm		<b>S41518</b> S41518.020 S41518.040	6
	1991-1998		<b>Comp Rings</b> <b>Oil Ring</b> <i>Ceramic Chrome Ductile Iron</i> 1 3.00mm      1 4.00mm 1 2.39mm		<b>S42170</b> S42170.020 S42170.040	6

**ENGINE BEARINGS**

<b>Rod Bearing</b>	1991-1999		H-Series Performance No Dowel Hole In Cap Half, Machined Connecting Rod <i>TM-112</i>		<b>CB-1413H</b> CB-1413H-.026mm CB-1413H-.25mm	6
	1991-1999		H-Series Performance Bearing Wall .0005" Thinner For .0010" More Oil Clearance No Dowel Hole In Cap Half, Machined Connecting Rod <i>TM-112</i>		<b>CB-1413HX</b>	6
	1991-1999		Machined Connecting Rod <i>TM-112</i>		<b>CB-1413P</b> CB-1413P-.25mm CB-1413P-.50mm CB-1413P-.75mm	6
	1991-1999		Connecting Rods With Housing Bore Resized .010" Larger Than Stock, Machined Connecting Rod <i>TM-112</i>		<b>CB-1846P-.25mm</b> CB-1846P-.50mm	6
<b>Main Bearing Set</b>	1991-1999		H-Series Performance Grooved Upper Half And Plain Lower Half, Contains Half Flanged Bearing, Upper Half Flanged Bearing Only <i>TM-112</i>		<b>MS-1717H</b> MS-1717H-.026mm MS-1717H-.25mm	1
	1991-1999		H-Series Performance Bearing Wall .0005" Thinner For .0010" More Oil Clearance Grooved Upper Half And Plain Lower Half, Contains Half Flanged Bearing, Upper Half Flanged Bearing Only <i>TM-112</i>		<b>MS-1717HX</b>	1
	1991-1999		Contains Half Flanged Bearing, Upper Half Flanged Bearing Only <i>TM-112</i>		<b>MS-1717P</b> MS-1717P-.25mm MS-1717P-.50mm MS-1717P-.75mm	1
<b>Main Bearing</b>	1991-1999		OE Number 3978822, Contains Half Flanged Bearing <i>AL-3</i>		<b>MB-3109A</b>	1
	1991-1999		OE Number 3802520, Contains Straight Shell Bearing <i>AL-3</i>		<b>MB-3110A</b>	6
<b>Cam Bearing</b>	1991-1999		Position Number 1 <i>AL-3</i>		<b>SH-1404</b>	1
<b>Piston Pin Bushing</b>	1991-1999		Requires Boring <i>C-1</i>		<b>223-3644</b>	6

**ENGINE GASKETS**

<b>Head Set</b>	1991-1998		Contains Standard Thickness Head Gasket; without Cylinder Head Bolts; Contains Positive Type Valve Stem Seals <i>VR2000</i>		<b>HS4068</b>	1
	1991-1998		Contains .25mm Thicker Head Gasket; without Cylinder Head Bolts; Contains Positive Type Valve Stem Seals <i>VR2000</i>		<b>HS4068A</b>	1
	1991-1998		Contains .50mm Thicker Head Gasket; without Cylinder Head Bolts; Contains Positive Type Valve Stem Seals <i>VR2000</i>		<b>HS4068B</b>	1
<b>Lower Set</b>	1991-1998		Use with Head Set to Make Full Set		<b>CS4068</b>	1
<b>Engine Kit Gasket Set</b>	1991-1998		Contains Standard Thickness Head Gasket		<b>95-3466VR</b>	1
<b>Cyl. Head Gasket</b>	1991-1998		Standard Thickness <i>VR2000</i>		<b>4068C</b>	1
	1991-1998		.25mm Oversize Thickness <i>VR2000</i>		<b>4068D</b>	1
	1991-1998		.50mm Oversize Thickness <i>VR2000</i>		<b>4068E</b>	1

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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<b>1</b> (cont.)	<b>359 CID (5.9L) 12V Turbo L6 4.016" (102.0mm) Cummins 6BT DIESEL</b> VIN Codes: 'C' (1991-1996), 'D' (1997-1999)					<b>1</b> (cont.)
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**ENGINE GASKETS (CONT.)**

<b>Valve Cover Gasket</b>	1991-1998		Single Valve Cover; Valve Cover Grommets Included <i>Victo-Tech</i>		<b>VS50215S</b>	6
<b>Valve Stem Oil Seal, Intake</b>	1991-1998		Positive Type		<b>B45411A</b>	6
	1991-1998		Top Hat Style		<b>B45953</b>	6
<b>Valve Stem Oil Seal, Exhaust</b>	1991-1998		Positive Type		<b>B45411A</b>	6
	1991-1998		Top Hat Style		<b>B45953</b>	6
<b>Manifold Set, Exhaust</b>	1991-1998				<b>MS10141</b>	1
<b>Manifold Set, Intake</b>	1991-1998				<b>MS12435</b>	1
<b>Oil Pan Gasket Set</b>	1991-1998				<b>OS32139</b>	1
<b>Crankshaft Seal, Rear</b>	1991-1998			<i>Teflon</i>	<b>48384</b>	1
	1991-1998		Contains Repair Sleeve		<b>67857</b>	1
<b>Rear Main Seal Set</b>	1991-1998				<b>JV1622</b>	1
<b>Timing Cover Set</b>	1993-1998		Contains Repair Sleeve; with Intercooler		<b>JV5072</b>	1
	1991-1993		Contains Repair Sleeve		<b>JV1186</b>	1
<b>Timing Cover Seal</b>	1991-1998		Contains Repair Sleeve	<i>Teflon</i>	<b>48383</b>	1

**MISCELLANEOUS GASKETS**

<b>Exhaust Pipe Flange Gasket</b>	1991-1998			<i>Steel</i>	<b>F10142</b>	1
<b>Push Rod Cover Gasket Set</b>	1991-1998		Contains Valve Cover Grommets	<i>Cork-Rubber</i>	<b>PS38801</b>	1
<b>Thermostat Seal</b>	1991-1998			<i>Victo-Tech</i>	<b>C31421</b>	1
<b>Water Pump Gasket</b>	1991-1998		Water Pump Mounting Gasket	<i>Rubber</i>	<b>K31420</b>	1

**VALVE TRAIN & ANCILLARY**

<b>Exhaust Valve</b>	1991-1996		OE Number: 3802481		<b>211-4294</b>	6
<b>Camshaft</b>	1998		OE Number: 3979506		<b>229-2444</b>	1
	1991-1997		OE Number: 3929734		<b>229-2440</b>	1
	1991-1997		OE Number: 3942567		<b>229-2441</b>	1
	1991-1997		OE Number: 3802394		<b>229-2443</b>	1
<b>Rocker Arm</b>	1998		OE Number: 3937219		<b>214-2196</b>	6
	1998		OE Number: 3937220		<b>214-2197</b>	6
	1991-1997		OE Number: 3922488		<b>214-1184</b>	6
<b>Rocker Arm, Intake</b>	1991-1997		OE Number: 3910811		<b>214-2195</b>	6
<b>Rocker Arm, Exhaust</b>	1991-1997		OE Number: 3910810		<b>214-2194</b>	6
<b>Rocker Arm Bridge</b>	1998		OE Number: 3943626		<b>214-1182</b>	12
<b>Rocker Arm Shaft</b>	1998		OE Number: 3935892		<b>230-3057</b>	12
<b>Timing Camshaft Gear</b>	1991-1997		OE Number: 3942755		<b>8-5506</b>	1
	1991-1997		OE Number: 3929028		<b>8-5507</b>	1
	1991-1997		OE Number: 3921954		<b>8-5508</b>	1
	1991-1997		OE Number: 3946436		<b>8-5509</b>	1
<b>Valve Guide, Exhaust</b>	1991-1997		OE Number: 3904409	<i>Iron</i>	<b>217-4115</b>	6
<b>Valve Guide, Intake</b>	1991-1997		OE Number: 3904408	<i>Iron</i>	<b>217-4114</b>	6
<b>Valve Guide, Intake and Exhaust</b>	1991-1997		OE Number: 3906206	<i>Iron</i>	<b>217-4116</b>	12
<b>Valve Seat, Exhaust</b>	1991-1997		OE Number: 3904105		<b>218-3787</b>	6
<b>Valve Seat, Intake</b>	1991-1997		OE Number: 3906854		<b>218-3788</b>	6
<b>Valve Spring, Intake and Exhaust</b>	1991-1997		OE Number: 3932453		<b>212-1799</b>	12
	1991-1997		OE Number: 3900276		<b>212-1800</b>	12



PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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<b>1</b> (cont.)	<b>359 CID (5.9L) 12V Turbo L6 4.016" (102.0mm) Cummins 6BT DIESEL</b>					<b>1</b> (cont.)
VIN Codes: 'C' (1991-1996), 'D' (1997-1999)						

### VALVE TRAIN & ANCILLARY (CONT.)

<b>Valve Spring, Intake and Exhaust (cont.)</b>	1991-1997		OE Number: 3926700		<b>212-1801</b>	12
<b>Valve Spring, Intake</b>	1991-1997		OE Number: 3916691		<b>212-1798</b>	6
<b>Valve Spring Retainer</b>	1991-1997		OE Number: 3900299		<b>216-4121</b>	12
<b>Valve Spring Retainer Keeper</b>	1998		OE Number: 3940123		<b>216-5243</b>	48

### TURBOCHARGERS

<b>Turbocharger</b>	1996-1998		with California Emissions		<b>286TC21005000</b>	1
	1996-1998		Automatic Transmission; without California Emissions		<b>286TC21007000</b>	1
	1996-1998		without California Emissions; Remanufactured; Automatic Transmission		<b>286TC21007100</b>	1
	1996-1998		without California Emissions		<b>286TC21023000</b>	1
	1994-1995				<b>286TC21003000</b>	1
	1994				<b>286TC21004000</b>	1
	1992-1993				<b>286TC16022000</b>	1
	1991-1993				<b>286TC21022000</b>	1
<b>Turbo Mounting Set</b>	1991-1997				<b>GS33582</b>	1

### FILTERS

<b>Oil Filter</b>	1991-1998				<b>OC 1001</b>	1
<b>Air Filter</b>	1994-1998				<b>LX 2933</b>	1

<b>2</b>	<b>359 CID (5.9L) 24V Turbo L6 4.016" (102.0mm) Cummins ISB DIESEL</b>					<b>2</b>
VIN Code: '6 [ETC]' (1998-2002)						

### CYLINDER BLOCK PARTS

<b>Piston</b>	1998-2002		Head Type: Reentrant Bowl Non-HO, Grade A		<i>Aluminum</i>	<b>224-3355</b> 224-3355.020 224-3355.030 224-3355.040	6
<b>Piston w/Rings</b>	1998-2002		Contents: 224-3355, S41518 Piston Rings Not Installed			<b>225-3355</b> 225-3355.020 225-3355.030 225-3355.040	6
<b>Piston Ring Set</b>	1998-2002		<b>Comp Rings</b> 1 3.00mm 1 2.35mm	<b>Oil Ring</b> 1 4.00mm	<i>Chrome Ductile Iron</i>	<b>S41518</b> S41518.020 S41518.040	6
	1998-2002		<b>Comp Rings</b> 1 3.00mm 1 2.39mm	<b>Oil Ring</b> 1 4.00mm	<i>Ceramic Chrome Ductile Iron</i>	<b>S42170</b> S42170.020 S42170.040	6

### ENGINE BEARINGS

<b>Rod Bearing</b>	1998-2002		H-Series Performance No Dowel Hole In Cap Half, Machined Connecting Rod	<i>TM-112</i>	<b>CB-1413H</b> CB-1413H-.026mm CB-1413H-.25mm	6
	1998-2002		H-Series Performance Bearing Wall .0005" Thinner For .0010" More Oil Clearance No Dowel Hole In Cap Half, Machined Connecting Rod	<i>TM-112</i>	<b>CB-1413HX</b>	6
	1998-2002		Machined Connecting Rod	<i>TM-112</i>	<b>CB-1413P</b> CB-1413P-.25mm CB-1413P-.50mm CB-1413P-.75mm	6

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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<b>2</b> (cont.)	<b>359 CID (5.9L) 24V Turbo L6 4.016" (102.0mm) Cummins ISB DIESEL</b> VIN Code: '6 [ETC]' (1998-2002)					<b>2</b> (cont.)
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**ENGINE BEARINGS (CONT.)**

<b>Rod Bearing (cont.)</b>	1998-2002		Connecting Rods With Housing Bore Resized .010" Larger Than Stock, Machined Connecting Rod <i>TM-112</i>	<b>CB-1846P-.25mm</b> CB-1846P-.50mm	6
<b>Main Bearing Set</b>	1998-2002		H-Series Performance Grooved Upper Half And Plain Lower Half, Contains Half Flanged Bearing, Upper Half Flanged Bearing Only <i>TM-112</i>	<b>MS-1717H</b> MS-1717H-.026mm MS-1717H-.25mm	1
	1998-2002		H-Series Performance Bearing Wall .0005" Thinner For .0010" More Oil Clearance Grooved Upper Half And Plain Lower Half, Contains Half Flanged Bearing, Upper Half Flanged Bearing Only <i>TM-112</i>	<b>MS-1717HX</b>	1
	1998-2002		Contains Half Flanged Bearing, Upper Half Flanged Bearing Only <i>TM-112</i>	<b>MS-1717P</b> MS-1717P-.25mm MS-1717P-.50mm MS-1717P-.75mm	1
	2000-2002		Contains Full Flanged Bearing <i>TM-112</i>	<b>MS-2272P</b> MS-2272P-.25mm	1
<b>Main Bearing</b>	1998-2002		OE Number 3978822, Contains Half Flanged Bearing <i>AL-3</i>	<b>MB-3109A</b>	1
	1998-2002		OE Number 3802520, Contains Straight Shell Bearing <i>AL-3</i>	<b>MB-3110A</b>	6
<b>Cam Bearing</b>	1998-2002		Position Number 1 <i>C-1</i>	<b>SH-1981</b>	1

**ENGINE GASKETS**

<b>Head Set</b>	1998-2002		Standard Thickness; without Cylinder Head Bolts; Contains Positive Type Valve Stem Seals <i>VR2000</i>	<b>HS54174-2</b>	1
	1998-2002		without Cylinder Head Bolts; Contains .25mm Thicker Head Gasket; Contains Positive Type Valve Stem Seals <i>VR2000</i>	<b>HS54174-3</b>	1
	1998-2002		without Cylinder Head Bolts; Contains .50mm Thicker Head Gasket; Contains Positive Type Valve Stem Seals <i>VR2000</i>	<b>HS54174-4</b>	1
<b>Lower Set</b>	1998-2002		Use with Head Set to Make Full Set	<b>CS54174</b>	1
<b>Engine Kit Gasket Set</b>	1998-2002		Standard Thickness	<b>95-3623VR</b>	1
<b>Cyl. Head Gasket</b>	1998-2002		Standard Thickness <i>VR2000</i>	<b>54174</b>	1
	1998-2002		.25mm Oversize Thickness <i>VR2000</i>	<b>54174A</b>	1
	1998-2002		.50mm Oversize Thickness <i>VR2000</i>	<b>54174B</b>	1
<b>Valve Cover Set</b>	1998-2002		Contains Valve Cover Grommets <i>Victo-Tech</i>	<b>VS50317</b>	1
<b>Valve Stem Oil Seal, Exhaust</b>	1998-2002		To Engine # 46239409; Positive Type	<b>B45902</b>	12
	1998-2002		After Engine Serial # 46239409; Top Hat Seal	<b>B45963</b>	12
<b>Valve Stem Oil Seal, Intake</b>	1998-2002		To Engine # 46239409; Positive Type	<b>B45903</b>	12
	1998-2002		After Engine Serial # 46239409; Top Hat Seal	<b>B45962</b>	12
<b>Manifold Set, Exhaust</b>	1998-2002		<i>Steel</i>	<b>MS19225</b>	1
<b>Manifold Set, Intake</b>	1998-2002			<b>MS12435</b>	1
<b>Oil Pan Gasket Set</b>	1998-2002			<b>OS32139</b>	1
<b>Crankshaft Seal, Rear</b>	1998-2002		<i>Teflon</i>	<b>48384</b>	1
	1998-2002		Contains Repair Sleeve	<b>67857</b>	1
<b>Rear Main Seal Set</b>	1998-2002			<b>JV1622</b>	1
<b>Timing Cover Set</b>	1998-2002		Contains Repair Sleeve	<b>JV5097</b>	1
<b>Timing Cover Seal</b>	1998-2002		Contains Repair Sleeve <i>Teflon</i>	<b>48383</b>	1

**MISCELLANEOUS GASKETS**

<b>Coolant Outlet Gasket</b>	1998-2002		<i>Victo-Tech</i>	<b>C31710</b>	1
<b>Push Rod Cover Gasket Set</b>	1998-2002		Contains Valve Cover Grommets <i>Cork-Rubber</i>	<b>PS38801</b>	1

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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<b>2</b> (cont.)	<b>359 CID (5.9L) 24V Turbo L6 4.016" (102.0mm) Cummins ISB DIESEL</b> VIN Code: '6 [ETC]' (1998-2002)					<b>2</b> (cont.)
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### MISCELLANEOUS GASKETS (CONT.)

<b>Seal Installation Tool</b>	1998-2002		Plastic Type; Rear Gear Train Engine		<b>GS33491</b>	1
<b>Water Pump Gasket</b>	1998-2002		Water Pump Mounting Gasket	Rubber	<b>K31420</b>	1

### VALVE TRAIN & ANCILLARY

<b>Exhaust Valve</b>	1998-2002		OE Number: 3802967		<b>211-4183</b>	12
<b>Intake Valve</b>	1998-2002		OE Number: 3802924		<b>211-4182</b>	12
<b>Camshaft</b>	1998-2002		OE Number: 3979506		<b>229-2444</b>	1
<b>Push Rod, Intake and Exhaust</b>	1998-2002		OE Number: 3941253		<b>215-4348</b>	24
<b>Rocker Arm</b>	1998-2002		OE Number: 3937219		<b>214-2196</b>	6
	1998-2002		OE Number: 3937220		<b>214-2197</b>	6
<b>Rocker Arm Bridge</b>	1998-2002		OE Number: 3943626		<b>214-1182</b>	12
<b>Rocker Arm Shaft</b>	1998-2002		OE Number: 3935892		<b>230-3057</b>	12
<b>Valve Lifter</b>	1998-2002		OE Number: 3925031		<b>213-1782</b>	24
<b>Valve Spring Retainer Keeper</b>	1998-2002		OE Number: 3940123		<b>216-5243</b>	48

### TURBOCHARGERS

<b>Turbocharger</b>	1999-2002		Manual Transmission		<b>286TC21002000</b>	1
	2000-2002		Automatic Transmission		<b>286TC25004000</b>	1
	1999		Automatic Transmission		<b>286TC21009000</b>	1
	1998		From 6-1998 to 12-1998		<b>286TC21008000</b>	1
<b>Turbo Mounting Set</b>	1998-2002				<b>GS33583</b>	1

### FILTERS

<b>Oil Filter</b>	1998-2002				<b>OC 1001</b>	1
<b>Air Filter</b>	1998-2001				<b>LX 2933</b>	1

<b>3</b>	<b>359 CID (5.9L) 24V Turbo L6 4.016" (102.0mm) Cummins ISB HO DIESEL</b> VIN Codes: '7 [ETH]' (2001-2002), 'C [ETH]' (2002)					<b>3</b>
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### CYLINDER BLOCK PARTS

<b>Piston</b>	2001-2002	7	Head Type: Reentrant Bowl HO, Grade A		Aluminum	<b>224-3354</b> 224-3354.020 224-3354.030 224-3354.040	6
<b>Piston w/Rings</b>	2001-2002	7	Contents: 224-3354, S41518 Piston Rings Not Installed			<b>225-3354</b> 225-3354.020 225-3354.040	6
<b>Piston Ring Set</b>	2001-2002		<b>Comp Rings</b> 1 3.00mm 1 2.35mm	<b>Oil Ring</b> 1 4.00mm	Chrome Ductile Iron	<b>S41518</b> S41518.020 S41518.040	6
	2001-2002		<b>Comp Rings</b> 1 3.00mm 1 2.39mm	<b>Oil Ring</b> 1 4.00mm	Ceramic Chrome Ductile Iron	<b>S42170</b> S42170.020 S42170.040	6

### ENGINE BEARINGS

<b>Rod Bearing</b>	2001-2002		H-Series Performance No Dowel Hole In Cap Half, Machined Connecting Rod		TM-112	<b>CB-1413H</b> CB-1413H-.026mm CB-1413H-.25mm	6
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PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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<b>3</b> (cont.)	<b>359 CID (5.9L) 24V Turbo L6 4.016" (102.0mm) Cummins ISB HO DIESEL</b> VIN Codes: '7 [ETH]' (2001-2002), 'C [ETH]' (2002)					<b>3</b> (cont.)
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**ENGINE BEARINGS (CONT.)**

<b>Rod Bearing (cont.)</b>	2001-2002		H-Series Performance Bearing Wall .0005" Thinner For .0010" More Oil Clearance No Dowel Hole In Cap Half, Machined Connecting Rod <i>TM-112</i>	<b>CB-1413HX</b>	6
	2001-2002		Machined Connecting Rod <i>TM-112</i>	<b>CB-1413P</b> CB-1413P-.25mm CB-1413P-.50mm CB-1413P-.75mm	6
	2001-2002		Connecting Rods With Housing Bore Resized .010" Larger Than Stock, Machined Connecting Rod <i>TM-112</i>	<b>CB-1846P-.25mm</b> CB-1846P-.50mm	6
<b>Main Bearing Set</b>	2001-2002		H-Series Performance Grooved Upper Half And Plain Lower Half, Contains Half Flanged Bearing, Upper Half Flanged Bearing Only <i>TM-112</i>	<b>MS-1717H</b> MS-1717H-.026mm MS-1717H-.25mm	1
	2001-2002		H-Series Performance Bearing Wall .0005" Thinner For .0010" More Oil Clearance Grooved Upper Half And Plain Lower Half, Contains Half Flanged Bearing, Upper Half Flanged Bearing Only <i>TM-112</i>	<b>MS-1717HX</b>	1
	2001-2002		Contains Half Flanged Bearing, Upper Half Flanged Bearing Only <i>TM-112</i>	<b>MS-1717P</b> MS-1717P-.25mm MS-1717P-.50mm MS-1717P-.75mm	1
<b>Main Bearing</b>	2001-2002		OE Number 3978822, Contains Half Flanged Bearing <i>AL-3</i>	<b>MB-3109A</b>	1
	2001-2002		OE Number 3802520, Contains Straight Shell Bearing <i>AL-3</i>	<b>MB-3110A</b>	6
<b>Cam Bearing</b>	2001-2002		Position Number 1 <i>C-1</i>	<b>SH-1981</b>	1

**ENGINE GASKETS**

<b>Head Set</b>	2001-2002		Standard Thickness; without Cylinder Head Bolts; Contains Positive Type Valve Stem Seals <i>VR2000</i>	<b>HS54174-2</b>	1
	2001-2002		without Cylinder Head Bolts; Contains .25mm Thicker Head Gasket; Contains Positive Type Valve Stem Seals <i>VR2000</i>	<b>HS54174-3</b>	1
	2001-2002		without Cylinder Head Bolts; Contains .50mm Thicker Head Gasket; Contains Positive Type Valve Stem Seals <i>VR2000</i>	<b>HS54174-4</b>	1
<b>Lower Set</b>	2001-2002		Use with Head Set to Make Full Set	<b>CS54174</b>	1
<b>Engine Kit Gasket Set</b>	2001-2002		Standard Thickness	<b>95-3623VR</b>	1
<b>Cyl. Head Gasket</b>	2001-2002		Standard Thickness <i>VR2000</i>	<b>54174</b>	1
	2001-2002		.25mm Oversize Thickness <i>VR2000</i>	<b>54174A</b>	1
	2001-2002		.50mm Oversize Thickness <i>VR2000</i>	<b>54174B</b>	1
<b>Valve Cover Set</b>	2001-2002		Contains Valve Cover Grommets <i>Victo-Tech</i>	<b>VS50317</b>	1
<b>Valve Stem Oil Seal, Exhaust</b>	2001-2002		To Engine # 46239409; Positive Type	<b>B45902</b>	12
	2001-2002		After Engine Serial # 46239409; Top Hat Seal	<b>B45963</b>	12
<b>Valve Stem Oil Seal, Intake</b>	2001-2002		To Engine # 46239409; Positive Type	<b>B45903</b>	12
	2001-2002		After Engine Serial # 46239409; Top Hat Seal	<b>B45962</b>	12
<b>Manifold Set, Exhaust</b>	2001-2002		<i>Steel</i>	<b>MS19225</b>	1
<b>Manifold Set, Intake</b>	2001-2002			<b>MS12435</b>	1
<b>Oil Pan Gasket Set</b>	2001-2002			<b>OS32139</b>	1
<b>Crankshaft Seal, Rear</b>	2001-2002		<i>Teflon</i>	<b>48384</b>	1
	2001-2002		Contains Repair Sleeve	<b>67857</b>	1
<b>Rear Main Seal Set</b>	2001-2002			<b>JV1622</b>	1
<b>Timing Cover Set</b>	2001-2002		Contains Repair Sleeve	<b>JV5097</b>	1

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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<b>3</b> (cont.)	<b>359 CID (5.9L) 24V Turbo L6 4.016" (102.0mm) Cummins ISB HO DIESEL</b>					<b>3</b> (cont.)
VIN Codes: '7 [ETH]' (2001-2002), 'C [ETH]' (2002)						

### ENGINE GASKETS (CONT.)

<b>Timing Cover Seal</b>	2001-2002		Contains Repair Sleeve	<i>Teflon</i>	<b>48383</b>	1
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### MISCELLANEOUS GASKETS

<b>Coolant Outlet Gasket</b>	2001-2002			<i>Victo-Tech</i>	<b>C31710</b>	1
<b>Push Rod Cover Gasket Set</b>	2001-2002		Contains Valve Cover Grommets	<i>Cork-Rubber</i>	<b>PS38801</b>	1
<b>Seal Installation Tool</b>	2001-2002		Plastic Type; Rear Gear Train Engine		<b>GS33491</b>	1
<b>Water Pump Gasket</b>	2001-2002		Water Pump Mounting Gasket	<i>Rubber</i>	<b>K31420</b>	1

### VALVE TRAIN & ANCILLARY

<b>Exhaust Valve</b>	2001-2002	7	OE Number: 3802967		<b>211-4183</b>	12
<b>Intake Valve</b>	2001-2002	7	OE Number: 3802924		<b>211-4182</b>	12
<b>Camshaft</b>	2001-2002		OE Number: 3979506		<b>229-2444</b>	1
<b>Push Rod, Intake and Exhaust</b>	2001-2002	7	OE Number: 3941253		<b>215-4348</b>	24
<b>Rocker Arm</b>	2001-2002	7	OE Number: 3937219		<b>214-2196</b>	6
	2001-2002	7	OE Number: 3937220		<b>214-2197</b>	6
<b>Rocker Arm Bridge</b>	2001-2002		OE Number: 3943626		<b>214-1182</b>	12
<b>Rocker Arm Shaft</b>	2001-2002		OE Number: 3935892		<b>230-3057</b>	12
<b>Valve Spring Retainer Keeper</b>	2001-2002		OE Number: 3940123		<b>216-5243</b>	48

### TURBOCHARGERS

<b>Turbo Mounting Set</b>	2001-2002				<b>GS33583</b>	1
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### FILTERS

<b>Oil Filter</b>	2001-2002				<b>OC 1001</b>	1
<b>Air Filter</b>	2001-2002				<b>LX 2933</b>	1

<b>4</b>	<b>359 CID (5.9L) 24V Turbo L6 4.016" (102.0mm) Cummins ISBe/QSB DIESEL</b>					<b>4</b>
VIN Code: '6 [ETC]' (2003-2005)						

### CYLINDER BLOCK PARTS

<b>Piston</b>	2003-2005		Head Type: Bowl NON-HO, 16.3:1 CR		<i>Aluminum</i>	<b>224-3674</b> 224-3674.020 224-3674.040	6
<b>Piston w/Rings</b>	2003-2005		Contents: 224-3674, S42113 Piston Rings Not Installed			<b>225-3674</b> 225-3674.020 225-3674.040	6
<b>Piston Ring Set</b>	2003-2005		<b>Comp Rings</b> 1 3.00mm 1 2.40mm	<b>Oil Ring</b> 1 4.00mm	<i>Chrome Ductile Iron</i>	<b>S42113</b> S42113.020 S42113.040	6

### ENGINE BEARINGS

<b>Rod Bearing</b>	2003-2005		Fractured Connecting Rod, Tri-Metal Upper Bearing, Bi-Metal Aluminum Lower Bearing	<i>TM-112</i>	<b>CB-1873AP</b> CB-1873AP-.25mm CB-1873AP-.50mm CB-1873AP-.75mm	6
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PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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<b>4</b> (cont.)	<b>359 CID (5.9L) 24V Turbo L6 4.016" (102.0mm) Cummins ISBe/QSB DIESEL</b> VIN Code: '6 [ETC]' (2003-2005)					<b>4</b> (cont.)
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**ENGINE BEARINGS (CONT.)**

<b>Rod Bearing (cont.)</b>	2003-2005		H-Series Performance No Dowel Hole In Cap Half, Fractured Connecting Rod <i>TM-112</i>	<b>CB-1873H</b> CB-1873H-.026mm CB-1873H-.25mm	6
	2003-2005		H-Series Performance Bearing Wall .0005" Thinner For .0010" More Oil Clearance No Dowel Hole In Cap Half, Fractured Connecting Rod <i>TM-112</i>	<b>CB-1873HX</b>	6
	2003		H-Series Performance No Dowel Hole In Cap Half, Machined Connecting Rod <i>TM-112</i>	<b>CB-1413H</b> CB-1413H-.026mm CB-1413H-.25mm	6
	2003		H-Series Performance Bearing Wall .0005" Thinner For .0010" More Oil Clearance No Dowel Hole In Cap Half, Machined Connecting Rod <i>TM-112</i>	<b>CB-1413HX</b>	6
	2003		Machined Connecting Rod <i>TM-112</i>	<b>CB-1413P</b> CB-1413P-.25mm CB-1413P-.50mm CB-1413P-.75mm	6
	2003		Connecting Rods With Housing Bore Resized .010" Larger Than Stock, Machined Connecting Rod <i>TM-112</i>	<b>CB-1846P-.25mm</b> CB-1846P-.50mm	6
<b>Main Bearing Set</b>	2003-2005		H-Series Performance Grooved Upper Half And Plain Lower Half, Contains Half Flanged Bearing, Upper Half Flanged Bearing Only <i>TM-112</i>	<b>MS-1717H</b> MS-1717H-.026mm MS-1717H-.25mm	1
	2003-2005		H-Series Performance Bearing Wall .0005" Thinner For .0010" More Oil Clearance Grooved Upper Half And Plain Lower Half, Contains Half Flanged Bearing, Upper Half Flanged Bearing Only <i>TM-112</i>	<b>MS-1717HX</b>	1
	2003-2005		Contains Half Flanged Bearing, Upper Half Flanged Bearing Only <i>TM-112</i>	<b>MS-1717P</b> MS-1717P-.25mm MS-1717P-.50mm MS-1717P-.75mm	1
	2003-2005		Contains Full Flanged Bearing <i>TM-112</i>	<b>MS-2272P</b> MS-2272P-.25mm	1
<b>Main Bearing</b>	2003-2005		OE Number 3978822, Contains Half Flanged Bearing <i>AL-3</i>	<b>MB-3109A</b>	1
	2003-2005		OE Number 3802520, Contains Straight Shell Bearing <i>AL-3</i>	<b>MB-3110A</b>	6
<b>Cam Bearing</b>	2003-2005		Position Number 1 <i>C-1</i>	<b>SH-1981</b>	1

**ENGINE GASKETS**

<b>Head Set</b>	2003-2005		without Cylinder Head Bolts; Contains 1.20mm Service Specific Over-Bore Head Gasket <i>Multi-Layered Steel</i>	<b>HS54556</b>	1
	2003-2005		without Cylinder Head Bolts; Contains 1.28mm Standard Head Gasket <i>Multi-Layered Steel</i>	<b>HS54557</b>	1
<b>Lower Set</b>	2003-2005		Crankshaft Seals not Included	<b>CS54556</b>	1
<b>Cyl. Head Gasket</b>	2003-2005		Contains 1.10mm Service Specific Over-Bore Head Gasket <i>Multi-Layered Steel</i>	<b>54556</b>	1
	2003-2005		Contains 1.20mm Service Specific Over-Bore Head Gasket <i>Multi-Layered Steel</i>	<b>54556A</b>	1
	2003-2005		Contains 1.28mm Standard Head Gasket <i>Multi-Layered Steel</i>	<b>54557A</b>	1
	2003-2005		Contains 1.18mm Standard Head Gasket <i>Multi-Layered Steel</i>	<b>54557</b>	1
<b>Cyl. Head Bolt Set</b>	2003-2005			<b>GS33493</b>	1
<b>Valve Cover Set</b>	2003-2005		Contains Valve Cover Grommets	<b>VS50416</b>	1
<b>Valve Stem Oil Seal, Intake</b>	2003-2005		Top Hat Seal	<b>B45962</b>	12
<b>Valve Stem Oil Seal, Exhaust</b>	2003-2005		Top Hat Seal	<b>B45963</b>	12

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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<b>4</b> (cont.)	<b>359 CID (5.9L) 24V Turbo L6 4.016" (102.0mm) Cummins ISBe/QSB DIESEL</b>					<b>4</b> (cont.)
	VIN Code: '6 [ETC]' (2003-2005)					

### ENGINE GASKETS (CONT.)

<b>Manifold Set, Exhaust</b>	2003-2005			Steel	<b>MS19225</b>	1
<b>Manifold Set, Intake</b>	2003-2005			Nitroseal	<b>MS19355</b>	1
<b>Oil Pan Gasket Set</b>	2003-2005				<b>OS32278</b>	1
<b>Crankshaft Seal, Rear</b>	2003-2005			Teflon	<b>48384</b>	1
	2003-2005		Contains Repair Sleeve		<b>67857</b>	1
<b>Rear Main Seal Set</b>	2003-2005		Contains RTV		<b>JV1690</b>	1
<b>Timing Cover Set</b>	2003-2005		Contains Repair Sleeve; Contains RTV		<b>JV5076</b>	1
<b>Timing Cover Seal</b>	2003-2005		Contains Repair Sleeve	Teflon	<b>48383</b>	1

### MISCELLANEOUS GASKETS

<b>Fuel Injection Nozzle O-Ring</b>	2003-2005				<b>GS33484</b>	6
<b>Oil Cooler Gasket Set</b>	2003-2005				<b>GS33485</b>	1
<b>Oil Dipstick Tube Seal</b>	2003-2005				<b>72010</b>	1
<b>Push Rod Cover Gasket Set</b>	2003-2005		Rocker Cover	Victo-Tech	<b>VS50419</b>	1
<b>Seal Installation Tool</b>	2003-2005		Plastic Type; Rear Gear Train Engine		<b>GS33491</b>	1
<b>Thermostat Seal</b>	2003-2005			Victo-Tech	<b>C31858</b>	1
<b>Water Pump Gasket</b>	2003-2005		Water Pump Mounting Gasket	Rubber	<b>K31420</b>	1

### VALVE TRAIN & ANCILLARY

<b>Exhaust Valve</b>	2003-2004		OE Number: 3802967		<b>211-4183</b>	12
<b>Intake Valve</b>	2003-2004		OE Number: 3802924		<b>211-4182</b>	12
<b>Camshaft</b>	2003-2004		OE Number: 3979506		<b>229-2444</b>	1
<b>Push Rod, Intake and Exhaust</b>	2003-2004		OE Number: 3941253		<b>215-4348</b>	24
<b>Rocker Arm</b>	2003-2004		OE Number: 3937219		<b>214-2196</b>	6
	2003-2004		OE Number: 3937220		<b>214-2197</b>	6
<b>Rocker Arm Bridge</b>	2003-2004		OE Number: 3943626		<b>214-1182</b>	12
<b>Rocker Arm Shaft</b>	2003-2004		OE Number: 3935892		<b>230-3057</b>	12
<b>Valve Spring Retainer Keeper</b>	2003-2004		OE Number: 3940123		<b>216-5243</b>	48

### TURBOCHARGERS

<b>Turbocharger</b>	2004		To 6-2004		<b>286TC21010000</b>	1
	2003-2004				<b>286TC21016000</b>	1
	2004				<b>286TC21024000</b>	1
	2004		From 6-2004		<b>286TC25042000</b>	1
	2003				<b>286TC21010000</b>	1
<b>Turbo Mounting Set</b>	2003-2004				<b>GS33584</b>	1

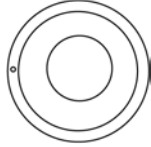
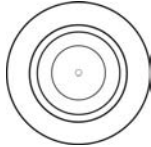
### FILTERS

<b>Oil Filter</b>	2003-2004				<b>OC 1001</b>	1
<b>Air Filter</b>	2003-2004				<b>LX 2947</b>	1
<b>Fuel Filter</b>	2003-2004				<b>KX 357</b>	1

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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<b>5</b>	<b>359 CID (5.9L) 24V Turbo L6 4.016" (102.0mm) Cummins ISBe/QSB HO DIESEL</b>					<b>5</b>
VIN Codes: '7 [ETH]' (2003-2004, 2009-2010), 'C [ETH]' (2003-2008)						

**CYLINDER BLOCK PARTS**

<b>Piston</b>	2004-2008	C	Head Type: Bowl 17.1:1 CR		Aluminum	<b>224-3673</b> 224-3673.020 224-3673.040	6
	2003-2004	C	Head Type: Bowl 17.1:1 CR		Aluminum	<b>224-3672</b> 224-3672.020 224-3672.040	6
<b>Piston w/Rings</b>	2004-2008	C	Contents: 224-3673, S42113 Piston Rings Not Installed			<b>225-3673</b> 225-3673.020 225-3673.040	6
	2003-2004	C	Contents: 224-3672, S42113 Piston Rings Not Installed			<b>225-3672</b> 225-3672.020 225-3672.040	6
<b>Piston Ring Set</b>	2003-2010		<b>Comp Rings</b> <b>Oil Ring</b> 1 3.00mm            1 4.00mm 1 2.40mm		Chrome Ductile Iron	<b>S42113</b> S42113.020 S42113.040	6

**ENGINE BEARINGS**

<b>Rod Bearing</b>	2003-2010		Fractured Connecting Rod, Tri-Metal Upper Bearing, Bi-Metal Aluminum Lower Bearing		TM-112	<b>CB-1873AP</b> CB-1873AP-.25mm CB-1873AP-.50mm CB-1873AP-.75mm	6
	2003-2010		H-Series Performance No Dowel Hole In Cap Half, Fractured Connecting Rod		TM-112	<b>CB-1873H</b> CB-1873H-.026mm CB-1873H-.25mm	6
	2003-2010		H-Series Performance Bearing Wall .0005" Thinner For .0010" More Oil Clearance No Dowel Hole In Cap Half, Fractured Connecting Rod		TM-112	<b>CB-1873HX</b>	6
	2003		H-Series Performance No Dowel Hole In Cap Half, Machined Connecting Rod		TM-112	<b>CB-1413H</b> CB-1413H-.026mm CB-1413H-.25mm	6
	2003		H-Series Performance Bearing Wall .0005" Thinner For .0010" More Oil Clearance No Dowel Hole In Cap Half, Machined Connecting Rod		TM-112	<b>CB-1413HX</b>	6
	2003		Machined Connecting Rod		TM-112	<b>CB-1413P</b> CB-1413P-.25mm CB-1413P-.50mm CB-1413P-.75mm	6
	2003		Connecting Rods With Housing Bore Resized .010" Larger Than Stock, Machined Connecting Rod		TM-112	<b>CB-1846P-.25mm</b> CB-1846P-.50mm	6
<b>Main Bearing Set</b>	2003-2008		H-Series Performance Grooved Upper Half And Plain Lower Half, Contains Half Flanged Bearing, Upper Half Flanged Bearing Only		TM-112	<b>MS-1717H</b> MS-1717H-.026mm MS-1717H-.25mm	1
	2003-2008		H-Series Performance Bearing Wall .0005" Thinner For .0010" More Oil Clearance Grooved Upper Half And Plain Lower Half, Contains Half Flanged Bearing, Upper Half Flanged Bearing Only		TM-112	<b>MS-1717HX</b>	1
	2003-2008		Contains Half Flanged Bearing, Upper Half Flanged Bearing Only		TM-112	<b>MS-1717P</b> MS-1717P-.25mm MS-1717P-.50mm MS-1717P-.75mm	1



PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
<b>5</b> (cont.)	<b>359 CID (5.9L) 24V Turbo L6 4.016" (102.0mm) Cummins ISBe/QSB HO DIESEL</b>					<b>5</b> (cont.)
VIN Codes: '7 [ETH]' (2003-2004, 2009-2010), 'C [ETH]' (2003-2008)						
<b>ENGINE BEARINGS (CONT.)</b>						
<b>Main Bearing Set (cont.)</b>	2003-2008		Contains Full Flanged Bearing	TM-112	<b>MS-2272P</b> MS-2272P-.25mm	1
<b>Main Bearing</b>	2003-2008		OE Number 3978822, Contains Half Flanged Bearing	AL-3	<b>MB-3109A</b>	1
	2003-2008		OE Number 3802520, Contains Straight Shell Bearing	AL-3	<b>MB-3110A</b>	6
<b>Cam Bearing</b>	2003-2008		Position Number 1	C-1	<b>SH-1981</b>	1
<b>ENGINE GASKETS</b>						
<b>Head Set</b>	2003-2010		without Cylinder Head Bolts; Contains 1.20mm Service Specific Over-Bore Head Gasket	Multi-Layered Steel	<b>HS54556</b>	1
	2003-2010		without Cylinder Head Bolts; Contains 1.28mm Standard Head Gasket	Multi-Layered Steel	<b>HS54557</b>	1
<b>Lower Set</b>	2003-2010		Crankshaft Seals not Included		<b>CS54556</b>	1
<b>Cyl. Head Gasket</b>	2003-2010		Contains 1.10mm Service Specific Over-Bore Head Gasket	Multi-Layered Steel	<b>54556</b>	1
	2003-2010		Contains 1.20mm Service Specific Over-Bore Head Gasket	Multi-Layered Steel	<b>54556A</b>	1
	2003-2010		Contains 1.28mm Standard Head Gasket	Multi-Layered Steel	<b>54557A</b>	1
	2003-2010		Contains 1.18mm Standard Head Gasket	Multi-Layered Steel	<b>54557</b>	1
<b>Cyl. Head Bolt Set</b>	2003-2010				<b>GS33493</b>	1
<b>Valve Cover Set</b>	2006-2010		with Integrated Wire Harness		<b>VS50543</b>	1
	2003-2005		Contains Valve Cover Grommets		<b>VS50416</b>	1
<b>Valve Stem Oil Seal, Intake</b>	2003-2010		Top Hat Seal		<b>B45962</b>	12
<b>Valve Stem Oil Seal, Exhaust</b>	2003-2010		Top Hat Seal		<b>B45963</b>	12
<b>Manifold Set, Exhaust</b>	2003-2010			Steel	<b>MS19225</b>	1
<b>Manifold Set, Intake</b>	2003-2010			Nitroseal	<b>MS19355</b>	1
<b>Oil Pan Gasket Set</b>	2003-2010				<b>OS32278</b>	1
<b>Crankshaft Seal, Rear</b>	2003-2010			Teflon	<b>48384</b>	1
	2003-2010		Contains Repair Sleeve		<b>67857</b>	1
<b>Rear Main Seal Set</b>	2003-2010		Contains RTV		<b>JV1690</b>	1
<b>Timing Cover Set</b>	2003-2010		Contains Repair Sleeve; Contains RTV		<b>JV5076</b>	1
<b>Timing Cover Seal</b>	2003-2010		Contains Repair Sleeve	Teflon	<b>48383</b>	1
<b>MISCELLANEOUS GASKETS</b>						
<b>Fuel Injection Nozzle O-Ring</b>	2003-2010				<b>GS33484</b>	6
<b>Oil Cooler Gasket Set</b>	2003-2010				<b>GS33485</b>	1
<b>Oil Dipstick Tube Seal</b>	2003-2010				<b>72010</b>	1
<b>Push Rod Cover Gasket Set</b>	2003-2010		Rocker Cover	Victo-Tech	<b>VS50419</b>	1
<b>Seal Installation Tool</b>	2003-2010		Plastic Type; Rear Gear Train Engine		<b>GS33491</b>	1
<b>Thermostat Seal</b>	2003-2010			Victo-Tech	<b>C31858</b>	1
<b>Water Pump Gasket</b>	2003-2010		Water Pump Mounting Gasket	Rubber	<b>K31420</b>	1
<b>VALVE TRAIN &amp; ANCILLARY</b>						
<b>Exhaust Valve</b>	2003-2008	C	OE Number: 3802967		<b>211-4183</b>	12
<b>Intake Valve</b>	2003-2008	C	OE Number: 3802924		<b>211-4182</b>	12
<b>Camshaft</b>	2003-2008	C	OE Number: 3979506		<b>229-2444</b>	1

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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<b>5</b> (cont.)	<b>359 CID (5.9L) 24V Turbo L6 4.016" (102.0mm) Cummins ISBe/QSB HO DIESEL</b> VIN Codes: '7 [ETH]' (2003-2004, 2009-2010), 'C [ETH]' (2003-2008)					<b>5</b> (cont.)
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**VALVE TRAIN & ANCILLARY (CONT.)**

<b>Push Rod, Intake and Exhaust</b>	2003-2008	C	OE Number: 3941253		<b>215-4348</b>	24
<b>Rocker Arm Bridge</b>	2003-2008	C	OE Number: 3943626		<b>214-1182</b>	12
<b>Rocker Arm Shaft</b>	2003-2008	C	OE Number: 3935892		<b>230-3057</b>	12
<b>Valve Spring Retainer Keeper</b>	2003-2008	C	OE Number: 3940123		<b>216-5243</b>	48

**TURBOCHARGERS**

<b>Turbocharger</b>	2003-2007	C			<b>286TC21016000</b>	1
	2005-2007				<b>286TC21024000</b>	1
	2004-2006	C	From 6-2004		<b>286TC25042000</b>	1
	2003	C			<b>286TC21010000</b>	1
<b>Turbo Mounting Set</b>	2003-2008	C			<b>GS33584</b>	1

**FILTERS**

<b>Oil Filter</b>	2003-2008	C			<b>OC 1001</b>	1
<b>Air Filter</b>	2005-2009				<b>LX 2947</b>	1
	2003-2004	C			<b>LX 2947</b>	1
<b>Fuel Filter</b>	2005-2009				<b>KX 357</b>	1
	2003-2004	C			<b>KX 357</b>	1

<b>6</b>	<b>359 CID (5.9L) 12V Turbo L6 4.016" (102.0mm) Cummins DIESEL</b> VIN Code: '8' (1988-1991)					<b>6</b>
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**ENGINE KITS**

<b>Re-Ring Kit</b>	1989-1990		with 3.00mm Top Compression Ring; Except Intercooled Engine Contents: S41518(6), CB-1413P(6), CS4068, HS4068		<b>RR959</b>	1
<b>ReMain Kit</b>	1989-1990		with 3.00mm Top Compression Ring; Except Intercooled Engine Contents: S41518(6), CB-1413P(6), MS-1717P, CS4068, HS4068		<b>RM959</b>	1

**CYLINDER BLOCK PARTS**

<b>Piston Ring Set</b>	1989-1990		<b>Comp Rings</b> 1 3.00mm 1 2.35mm	<b>Oil Ring</b> 1 4.00mm	<i>Chrome Ductile Iron</i>	<b>S41518</b> S41518.020 S41518.040	6
	1989-1990		<b>Comp Rings</b> 1 3.00mm 1 2.39mm	<b>Oil Ring</b> 1 4.00mm	<i>Ceramic Chrome Ductile Iron</i>	<b>S42170</b> S42170.020 S42170.040	6

**ENGINE BEARINGS**

<b>Rod Bearing</b>	1988-1991		H-Series Performance No Dowel Hole In Cap Half, Machined Connecting Rod	<i>TM-112</i>	<b>CB-1413H</b> CB-1413H-.026mm CB-1413H-.25mm	6
	1988-1991		H-Series Performance Bearing Wall .0005" Thinner For .0010" More Oil Clearance No Dowel Hole In Cap Half, Machined Connecting Rod	<i>TM-112</i>	<b>CB-1413HX</b>	6
	1988-1991		Machined Connecting Rod	<i>TM-112</i>	<b>CB-1413P</b> CB-1413P-.25mm CB-1413P-.50mm CB-1413P-.75mm	6

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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<b>6</b> (cont.)	<b>359 CID (5.9L) 12V Turbo L6 4.016" (102.0mm) Cummins DIESEL</b> VIN Code: '8' (1988-1991)					<b>6</b> (cont.)
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### ENGINE BEARINGS (CONT.)

<b>Rod Bearing (cont.)</b>	1988-1991		Connecting Rods With Housing Bore Resized .010" Larger Than Stock, Machined Connecting Rod <i>TM-112</i>	<b>CB-1846P-.25mm</b> CB-1846P-.50mm	6
<b>Main Bearing Set</b>	1988-1991		H-Series Performance Grooved Upper Half And Plain Lower Half, Contains Half Flanged Bearing, Upper Half Flanged Bearing Only <i>TM-112</i>	<b>MS-1717H</b> MS-1717H-.026mm MS-1717H-.25mm	1
	1988-1991		H-Series Performance Bearing Wall .0005" Thinner For .0010" More Oil Clearance Grooved Upper Half And Plain Lower Half, Contains Half Flanged Bearing, Upper Half Flanged Bearing Only <i>TM-112</i>	<b>MS-1717HX</b>	1
	1988-1991		Contains Half Flanged Bearing, Upper Half Flanged Bearing Only <i>TM-112</i>	<b>MS-1717P</b> MS-1717P-.25mm MS-1717P-.50mm MS-1717P-.75mm	1
<b>Main Bearing</b>	1988-1991		OE Number 3978822, Contains Half Flanged Bearing <i>AL-3</i>	<b>MB-3109A</b>	1
	1988-1991		OE Number 3802520, Contains Straight Shell Bearing <i>AL-3</i>	<b>MB-3110A</b>	6
<b>Cam Bearing</b>	1988-1991		Position Number 1 <i>AL-3</i>	<b>SH-1404</b>	1
<b>Piston Pin Bushing</b>	1988-1991		Requires Boring <i>C-1</i>	<b>223-3644</b>	6

### ENGINE GASKETS

<b>Head Set</b>	1988-1991		Contains Standard Thickness Head Gasket; without Cylinder Head Bolts; Contains Positive Type Valve Stem Seals <i>VR2000</i>	<b>HS4068</b>	1
	1988-1991		Contains .25mm Thicker Head Gasket; without Cylinder Head Bolts; Contains Positive Type Valve Stem Seals <i>VR2000</i>	<b>HS4068A</b>	1
	1988-1991		Contains .50mm Thicker Head Gasket; without Cylinder Head Bolts; Contains Positive Type Valve Stem Seals <i>VR2000</i>	<b>HS4068B</b>	1
<b>Lower Set</b>	1988-1991		Use with Head Set to Make Full Set	<b>CS4068</b>	1
<b>Engine Kit Gasket Set</b>	1988-1991		Contains Standard Thickness Head Gasket	<b>95-3466VR</b>	1
<b>Cyl. Head Gasket</b>	1988-1991		Standard Thickness <i>VR2000</i>	<b>4068C</b>	1
	1988-1991		.25mm Oversize Thickness <i>VR2000</i>	<b>4068D</b>	1
	1988-1991		.50mm Oversize Thickness <i>VR2000</i>	<b>4068E</b>	1
<b>Valve Cover Gasket</b>	1988-1991		Single Valve Cover; Valve Cover Grommets Included <i>Victo-Tech</i>	<b>VS50215S</b>	6
<b>Valve Stem Oil Seal, Exhaust</b>	1988-1991		Positive Type	<b>B45411A</b>	6
	1988-1991		Top Hat Style	<b>B45953</b>	6
<b>Valve Stem Oil Seal, Intake</b>	1988-1991		Positive Type	<b>B45411A</b>	6
	1988-1991		Top Hat Style	<b>B45953</b>	6
<b>Manifold Set, Exhaust</b>	1988-1991			<b>MS10141</b>	1
<b>Manifold Set, Intake</b>	1988-1991			<b>MS12435</b>	1
<b>Oil Pan Gasket Set</b>	1988-1991			<b>OS32139</b>	1
<b>Crankshaft Seal, Rear</b>	1988-1991		<i>Teflon</i>	<b>48384</b>	1
	1988-1991		Contains Repair Sleeve	<b>67857</b>	1
<b>Rear Main Seal Set</b>	1988-1991			<b>JV1622</b>	1
<b>Timing Cover Set</b>	1988-1991		Contains Repair Sleeve	<b>JV1186</b>	1
<b>Timing Cover Seal</b>	1988-1991		Contains Repair Sleeve <i>Teflon</i>	<b>48383</b>	1

### MISCELLANEOUS GASKETS

<b>Auto Trans Power Take Off Gasket</b>	1988-1991		with Chelsea Power Take-Off; with 6 Bolt Holes; .010" Thick	<b>H26205</b>	1
	1988-1991		with Chelsea Power Take-Off; with 6 Bolt Holes; .020" Thick	<b>H26206</b>	1
	1988-1991		with Chelsea Power Take-Off; 8 Bolt; .010" Thick	<b>H26207</b>	1

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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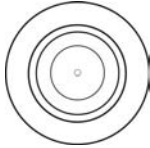
<b>6</b> (cont.)	<b>359 CID (5.9L) 12V Turbo L6 4.016" (102.0mm) Cummins DIESEL</b> VIN Code: '8' (1988-1991)					<b>6</b> (cont.)
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**MISCELLANEOUS GASKETS (CONT.)**

<b>Auto Trans Power Take Off Gasket (cont.)</b>	1988-1991		with Chelsea Power Take-Off; with 6 Bolt Holes		<b>H36080</b>	1
<b>Axle Housing Cover Gasket</b>	1988-1991		with 11" x 12"; with 10 Bolt Holes; with 9.75" Gear; with 4500lb Axles; with Dana 60 Axle; Front Axle; Rear Axle; 60,70 Dana Axle; 50, 60 Dana Axle	<i>Paper</i>	<b>P18562</b>	1
	1988-1991		with 11" x 12"; with 10 Bolt Holes; with 9.75" Gear; with 4500lb Axles; with Dana 60 Axle; Front Axle; Rear Axle; 60,70 Dana Axle; 50, 60 Dana Axle	<i>Tuff-Cork</i>	<b>P18562TC</b>	1
<b>Axle Shaft Flange Gasket, Rear</b>	1988-1991		Except 5500lbs & 5800lbs Axles; with Stud Mount; without 5800lb Axle; 60,70 Dana Axle; with 5500lb Axles; without 10000lb Axle		<b>J27966</b>	2
<b>Exhaust Pipe Flange Gasket</b>	1988-1991			<i>Steel</i>	<b>F10142</b>	1
<b>Push Rod Cover Gasket Set</b>	1988-1991		Contains Valve Cover Grommets	<i>Cork-Rubber</i>	<b>PS38801</b>	1
<b>Thermostat Seal</b>	1988-1991			<i>Victo-Tech</i>	<b>C31421</b>	1
<b>Water Pump Gasket</b>	1988-1991		Water Pump Mounting Gasket	<i>Rubber</i>	<b>K31420</b>	1

**VALVE TRAIN & ANCILLARY**

<b>Exhaust Valve</b>	1989-1990		OE Number: 3802481		<b>211-4294</b>	6
<b>Camshaft</b>	1989-1990		OE Number: 3929734		<b>229-2440</b>	1
	1989-1990		OE Number: 3942567		<b>229-2441</b>	1
	1989-1990		OE Number: 3802394		<b>229-2443</b>	1
<b>Rocker Arm, Intake</b>	1989-1990		OE Number: 3910811		<b>214-2195</b>	6
<b>Rocker Arm, Exhaust</b>	1989-1990		OE Number: 3910810		<b>214-2194</b>	6
<b>Rocker Arm</b>	1989-1990		OE Number: 3922488		<b>214-1184</b>	6
<b>Timing Camshaft Gear</b>	1989-1990		OE Number: 3942755		<b>8-5506</b>	1
	1989-1990		OE Number: 3929028		<b>8-5507</b>	1
	1989-1990		OE Number: 3921954		<b>8-5508</b>	1
	1989-1990		OE Number: 3946436		<b>8-5509</b>	1
<b>Valve Guide, Intake</b>	1989-1990		OE Number: 3904408	<i>Iron</i>	<b>217-4114</b>	6
<b>Valve Guide, Intake and Exhaust</b>	1989-1990		OE Number: 3906206	<i>Iron</i>	<b>217-4116</b>	12
<b>Valve Guide, Exhaust</b>	1989-1990		OE Number: 3904409	<i>Iron</i>	<b>217-4115</b>	6
<b>Valve Seat, Exhaust</b>	1989-1990		OE Number: 3904105		<b>218-3787</b>	6
	1989-1990		.127mm Oversize OE Number: 3939719		<b>218-3789</b>	6
	1989-1990		Standard OE Number: 3943450		<b>218-3791</b>	6
	1989-1990		.127mm Oversize OE Number: 4934074		<b>218-3792</b>	6
<b>Valve Seat, Intake</b>	1989-1990		OE Number: 3906854		<b>218-3788</b>	6
	1989-1990		Standard OE Number: 3943449		<b>218-3790</b>	6
<b>Valve Spring, Intake and Exhaust</b>	1989-1991		OE Number: 3900276		<b>212-1800</b>	12
	1989-1990		OE Number: 3932453		<b>212-1799</b>	12
	1989-1990		OE Number: 3926700		<b>212-1801</b>	12
<b>Valve Spring, Intake</b>	1989-1990		OE Number: 3916691		<b>212-1798</b>	6

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
<b>6</b> (cont.)	<b>359 CID (5.9L) 12V Turbo L6 4.016" (102.0mm) Cummins DIESEL</b>					<b>6</b> (cont.)
VIN Code: '8' (1988-1991)						
<b>VALVE TRAIN &amp; ANCILLARY (CONT.)</b>						
Valve Spring Retainer	1989-1990		OE Number: 3900299		<b>216-4121</b>	12
<b>TURBOCHARGERS</b>						
Turbocharger	1989-1990				<b>286TC21021000</b>	1
<b>FILTERS</b>						
Oil Filter	1989-1990				<b>OC 1001</b>	1
<b>7</b>	<b>408 CID (6.7L) 24V Turbo L6 4.210" (107.0mm) Cummins DIESEL</b>					<b>7</b>
VIN Codes: 'A [ETJ]' (2007-2008), 'L [ETJ]' (2009-2012)						
<b>CYLINDER BLOCK PARTS</b>						
Piston	2007-2010		Head Type: Bowl	 Aluminum	<b>224-3732</b> 224-3732.020	6
Piston w/Rings	2007-2010		Contents: 224-3732, S42140 Piston Rings Not Installed		<b>225-3732</b> 225-3732.020	6
Piston Ring Set	2007-2012		<b>Comp Rings</b> 1 2.87mm 1 2.50mm	<b>Oil Ring</b> 1 3.46mm <i>Plasma-Moly Ductile Iron</i>	<b>S42140</b> S42140.020 S42140.040	6
	2007-2012		<b>Comp Rings</b> 6 2.87mm 6 2.50mm	<b>Oil Ring</b> 6 3.46mm <i>Plasma-Moly Ductile Iron</i>	<b>42140</b> 42140.020 42140.040	1
<b>ENGINE BEARINGS</b>						
Rod Bearing	2007-2010		Fractured Connecting Rod, Tri-Metal Upper Bearing, Bi-Metal Aluminum Lower Bearing	<i>TM-112</i>	<b>CB-1873AP</b> CB-1873AP-.25mm CB-1873AP-.50mm CB-1873AP-.75mm	6
	2007-2010		H-Series Performance No Dowel Hole In Cap Half, Fractured Connecting Rod	<i>TM-112</i>	<b>CB-1873H</b> CB-1873H-.026mm CB-1873H-.25mm	6
	2007-2010		H-Series Performance Bearing Wall .0005" Thinner For .0010" More Oil Clearance No Dowel Hole In Cap Half, Fractured Connecting Rod	<i>TM-112</i>	<b>CB-1873HX</b>	6
Main Bearing Set	2007-2010		H-Series Performance Grooved Upper Half And Plain Lower Half, Contains Half Flanged Bearing, Upper Half Flanged Bearing Only	<i>TM-112</i>	<b>MS-1717H</b> MS-1717H-.026mm MS-1717H-.25mm	1
	2007-2010		H-Series Performance Bearing Wall .0005" Thinner For .0010" More Oil Clearance Grooved Upper Half And Plain Lower Half, Contains Half Flanged Bearing, Upper Half Flanged Bearing Only	<i>TM-112</i>	<b>MS-1717HX</b>	1
	2007-2010		Contains Half Flanged Bearing, Upper Half Flanged Bearing Only	<i>TM-112</i>	<b>MS-1717P</b> MS-1717P-.25mm MS-1717P-.50mm MS-1717P-.75mm	1
Main Bearing	2007-2010		OE Number 3978822, Contains Half Flanged Bearing	<i>AL-3</i>	<b>MB-3109A</b>	1
	2007-2010		OE Number 3802520, Contains Straight Shell Bearing	<i>AL-3</i>	<b>MB-3110A</b>	6
Cam Bearing	2007		Position Number 1	<i>C-1</i>	<b>SH-1981</b>	1

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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<b>7</b> (cont.)	<b>408 CID (6.7L) 24V Turbo L6 4.210" (107.0mm) Cummins DIESEL</b>					<b>7</b> (cont.)
VIN Codes: 'A [ETJ]' (2007-2008), 'L [ETJ]' (2009-2012)						

**ENGINE GASKETS**

<b>Head Set</b>	2007-2010		Valve Cover Gasket not Included		<b>HS54774-1</b>	1
<b>Lower Set</b>	2007-2010		Timing Cover & Rear Main Seal must be Ordered Separately		<b>CS54774-1</b>	1
<b>Cyl. Head Bolt Set</b>	2007-2010				<b>GS33493</b>	1
<b>Valve Cover Set</b>	2007-2010		with Integrated Wire Harness		<b>VS50543</b>	1
<b>Valve Stem Oil Seal, Intake</b>	2007-2010				<b>B45962</b>	12
<b>Valve Stem Oil Seal, Exhaust</b>	2007-2010				<b>B45962</b>	12
<b>Manifold Set, Exhaust</b>	2007-2010				<b>MS19741</b>	1
<b>Manifold Set, Intake</b>	2007-2010		Installation Kit; Master Set - Contains Intake Manifold Gaskets Plus All Miscellaneous Gaskets and Seals Needed for Intake Installation.		<b>MIS19751</b>	1
	2007-2010				<b>MS19751</b>	1
<b>Oil Pan Gasket Set</b>	2009-2011				<b>OS32381</b>	1
	2007-2008				<b>OS32278</b>	1
<b>Crankshaft Seal, Rear</b>	2007-2010		Except Industrial	<i>Teflon</i>	<b>48384</b>	1
	2007-2010		Contains Repair Sleeve		<b>67857</b>	1
<b>Rear Main Seal Set</b>	2007-2010		Contains RTV; Except Industrial		<b>JV1690</b>	1
<b>Timing Cover Set</b>	2007-2010		Contains Repair Sleeve; Contains RTV		<b>JV5076</b>	1
<b>Timing Cover Seal</b>	2007-2010		Contains Repair Sleeve	<i>Teflon</i>	<b>48383</b>	1

**MISCELLANEOUS GASKETS**

<b>EGR Valve Gasket</b>	2007-2010				<b>G32461</b>	1
	2007-2010		To Cooler		<b>G32479</b>	4
	2007-2010		EGR Cooler Mounting Gasket		<b>G32480</b>	1
	2007-2010		Exhaust Manifold to EGR Inlet Pipe		<b>G32481</b>	1
<b>Fuel Injection Nozzle O-Ring Kit</b>	2007-2010				<b>GS33614</b>	6
<b>Fuel Pump Gasket</b>	2007-2010		O-Ring Type		<b>D32483</b>	1
<b>Oil Cooler Gasket Set</b>	2007-2010				<b>GS33485</b>	1
<b>Oil Dipstick Tube Seal</b>	2007-2010				<b>72010</b>	1
<b>Oil Drain Plug Gasket</b>	2007-2010				<b>B32484</b>	1
<b>Push Rod Cover Gasket Set</b>	2007-2010		Rocker Cover	<i>Victo-Tech</i>	<b>VS50419</b>	1
<b>Thermostat Seal</b>	2007-2010			<i>Victo-Tech</i>	<b>C31858</b>	1
<b>Water Pump Gasket</b>	2007-2010		Water Pump Mounting Gasket	<i>Rubber</i>	<b>K31420</b>	1

**VALVE TRAIN & ANCILLARY**

<b>Exhaust Valve</b>	2007-2012		OE Number: 3802967		<b>211-4183</b>	12
<b>Intake Valve</b>	2007-2011		OE Number: 3802924		<b>211-4182</b>	12
<b>Push Rod, Intake and Exhaust</b>	2007-2011		OE Number: 3941253		<b>215-4348</b>	24

**TURBOCHARGERS**

<b>Turbocharger</b>	2007-2009		Remanufactured		<b>286TC21101100</b>	1
<b>Turbo Mounting Set</b>	2007-2010		Installation Kit		<b>GS33616</b>	1
<b>Turbocharger Gasket</b>	2007-2012				<b>G32463</b>	1

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
<b>7</b> (cont.)	<b>408 CID (6.7L) 24V Turbo L6 4.210" (107.0mm) Cummins DIESEL</b>					<b>7</b> (cont.)
VIN Codes: 'A [ETJ]' (2007-2008), 'L [ETJ]' (2009-2012)						
<b>TURBOCHARGERS (CONT.)</b>						
<b>Turbocharger Service Kit</b>	2007-2009				<b>286TS21101100</b>	1
<b>FILTERS</b>						
<b>Oil Filter</b>	2007-2012				<b>OC 1001</b>	1
<b>Air Filter</b>	2007-2012				<b>LX 3069</b>	1

# FORD TRUCK

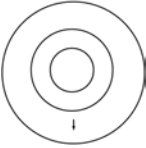
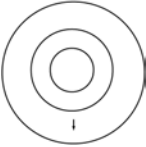
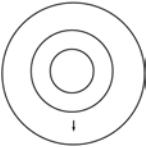
ENGINE	YEAR	BLOCK
363 CID (6.0L) 32V Turbo. V8 International Power-Stroke DIESEL	2003-2010	1
391 CID (6.4L) 32V Turbo. V8 Power-Stroke DIESEL	2008-2010	2
406 CID (6.7L) 32V Turbo. V8 Power-Stroke DIESEL	2011-2012	3
445 CID (7.3L) 16V V8 International DIESEL	1988-1994	4
445 CID (7.3L) 16V Turbo. V8 International DIESEL	1992-1994	5
445 CID (7.3L) 16V Turbo. V8 International Power-Stroke DIESEL	1994-2003	6

MODEL	ENGINE	YEAR	BLOCK
E-Series	363 CID (6.0L) 32V Turbo V8 3.740" (95.0mm) International Power-Stroke VT365 DIESEL	2004-2010	1
E-Series	445 CID (7.3L) 16V V8 4.110" (104.4mm) International DIESEL	1988-1994	4
E-Series	445 CID (7.3L) 16V Turbo V8 4.110" (104.4mm) International Power-Stroke DIESEL	1995-2003	6
Excursion	363 CID (6.0L) 32V Turbo V8 3.740" (95.0mm) International Power-Stroke VT365 DIESEL	2003-2005	1
Excursion	445 CID (7.3L) 16V Turbo V8 4.110" (104.4mm) International Power-Stroke DIESEL	2000-2003	6
F-Series	363 CID (6.0L) 32V Turbo V8 3.740" (95.0mm) International Power-Stroke VT365 DIESEL	2003-2008	1
F-Series	391 CID (6.4L) 32V Turbo V8 3.860" (98.0mm) Power-Stroke DIESEL	2008-2010	2
F-Series	406 CID (6.7L) 32V Turbo V8 3.900" (99.1mm) Power-Stroke DIESEL	2011-2012	3
F-Series	445 CID (7.3L) 16V V8 4.110" (104.4mm) International DIESEL	1988-1994	4
F-Series	445 CID (7.3L) 16V Turbo V8 4.110" (104.4mm) International DIESEL	1992-1994	5
F-Series	445 CID (7.3L) 16V Turbo V8 4.110" (104.4mm) International Power-Stroke DIESEL	1994-1997, 1999-2003	6
F-Series	445 CID (7.3L) 16V Turbo V8 4.110" (104.4mm) International Power-Stroke T444E DIESEL	1994-1997, 1999-2003	6
F59	445 CID (7.3L) 16V V8 4.110" (104.4mm) International DIESEL	1988-1994	4
F59	445 CID (7.3L) 16V Turbo V8 4.110" (104.4mm) International DIESEL	1993-1994	5

MODEL	ENGINE	YEAR	BLOCK
F59	445 CID (7.3L) 16V Turbo V8 4.110" (104.4mm) International Power-Stroke DIESEL	1994-1997	6

PART	YEAR	VIN/ENG CODE	NOTES	MATERIAL	PART NUMBER	ENG QTY
<b>1</b>			<b>363 CID (6.0L) 32V Turbo V8 3.740" (95.0mm) International Power-Stroke DIESEL</b> VIN Codes: '- [VT365]' (2004-2007), 'P [VT365]' (2003-2010)			<b>1</b>

**CYLINDER BLOCK PARTS**

<b>Piston</b>	2004-2010	P	Head Type: Flat w/ Combustion Chamber Keystone top ring. Coated skirts.		Aluminum	<b>224-3503</b> 224-3503.010 224-3503.020 224-3503.030 224-3503.040	8
	2003		Head Type: Flat w/ Combustion Chamber Keystone top ring. Coated skirts. For S/N 1611 and up. 2003 only		Aluminum	<b>224-3454</b> 224-3454.020 224-3454.030 224-3454.040	8
	2003		Head Type: Flat w/ Combustion Chamber Compression Height: Reduced .010" Keystone top ring. Coated skirts. For S/N 1611 and up. 2003 only		Aluminum	<b>224-3455</b> 224-3455.020 224-3455.030 224-3455.040	8
<b>Cyl. Sleeve</b>	2003-2010	P				<b>226-8204</b>	8
<b>Piston Ring Set</b>	2003-2010	P	<b>Comp Rings</b> 1 2.30mm 1 2.00mm	<b>Oil Ring</b> 1 3.44mm	Plasma-Moly Carbon Steel	<b>S41940</b> S41940.020 S41940.030 S41940.040	8
	2003-2010	P	<b>Comp Rings</b> 8 2.30mm 8 2.00mm	<b>Oil Ring</b> 8 3.44mm	Plasma-Moly Carbon Steel	<b>41940</b> 41940.020 41940.030 41940.040	1

**ENGINE BEARINGS**

<b>Rod Bearing</b>	2003-2010				TM-77	<b>CB-1814P</b> CB-1814P-.25mm CB-1814P-.50mm CB-1814P-.75mm	8
	2003-2010		Connecting Rods With Housing Bore Resized .002" Larger Than Stock		TM-77	<b>CB-1815P-.25mm</b> CB-1815P-.50mm CB-1815P-.75mm	8
<b>Main Bearing Set</b>	2003-2010				TM-77	<b>MS-2223P</b> MS-2223P-.25mm MS-2223P-.50mm MS-2223P-.75mm	1
<b>Cam Bearing Set</b>	2003-2010				B-1	<b>SH-1996S</b>	1
<b>Piston Pin Bushing</b>	2003-2010		Requires Boring		C-1	<b>223-3671</b>	8



PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
<b>1</b> (cont.)	<b>363 CID (6.0L) 32V Turbo V8 3.740" (95.0mm) International Power-Stroke DIESEL</b> VIN Codes: '- [VT365]' (2004-2007), 'P [VT365]' (2003-2010)					<b>1</b> (cont.)

### ENGINE GASKETS

<b>Head Set</b>	2009		20mm Cylinder Head Dowel; Contains Crankcase To Head Tube Seals; Crankcase To Head Tubes Not Included; without Cylinder Head Bolts <i>Multi-Layered Steel</i>	<b>HS54579</b>	1
	2009		20mm Cylinder Head Dowel; Contains Crankcase To Head Tube Seals; Crankcase To Head Tubes Not Included; without Cylinder Head Bolts	<b>HS54579A</b>	1
	2008		20mm Cylinder Head Dowel; Contains Crankcase To Head Tube Seals; Crankcase To Head Tubes Not Included; without Cylinder Head Bolts E-Series, Serial #s 299,093 & After, Serial #s 3,723,722 & After <i>Multi-Layered Steel</i>	<b>HS54579</b>	1
	2008		20mm Cylinder Head Dowel; Contains Crankcase To Head Tube Seals; Crankcase To Head Tubes Not Included; without Cylinder Head Bolts E-Series, Serial #s 299,093 & After, Serial #s 3,723,722 & After	<b>HS54579A</b>	1
	2005-2007	P	E-Series, Serial #s 299,093 & After, Serial #s 3,723,722 & After	<b>HS54579</b>	1
			F-Series, Serial #s 299,093 & After, Serial #s 3,723,722 & After		
			20mm Cylinder Head Dowel; Contains Crankcase To Head Tube Seals; Crankcase To Head Tubes Not Included; without Cylinder Head Bolts <i>Multi-Layered Steel</i>		
	2005-2007	P	F-Series, Serial #s 299,093 & After, Serial #s 3,723,722 & After	<b>HS54579A</b>	1
			E-Series, Serial #s 299,093 & After, Serial #s 3,723,722 & After		
			20mm Cylinder Head Dowel; Contains Crankcase To Head Tube Seals; Crankcase To Head Tubes Not Included; without Cylinder Head Bolts		
2004-2006	P	E-Series from Serial # 137,745 to # 299,092	<b>HS44450</b>	1	
		F-Series, Excursion from Serial # 6,155,637 to # 6,723,721			
		18mm Cylinder Head Dowel; Contains Crankcase To Head Tube Seals; Crankcase To Head Tubes Not Included; without Cylinder Head Bolts <i>Multi-Layered Steel</i>			
2004-2006	P	E-Series from Serial # 137,745 to # 299,092	<b>HS44450A</b>	1	
		F-Series, Excursion from Serial # 6,155,637 to # 6,723,721			
		18mm Cylinder Head Dowel; without Cylinder Head Bolts; Contains Crankcase To Head Tube Seals; Crankcase To Head Tubes Not Included			
2003		18mm Cylinder Head Dowel; Contains Crankcase To Head Tube Seals; Crankcase To Head Tubes Not Included; without Cylinder Head Bolts F-Series, Excursion from Serial # 6,155,637 to # 6,723,721 <i>Multi-Layered Steel</i>	<b>HS44450</b>	1	
2003		18mm Cylinder Head Dowel; without Cylinder Head Bolts; Contains Crankcase To Head Tube Seals; Crankcase To Head Tubes Not Included F-Series, Excursion from Serial # 6,155,637 to # 6,723,721	<b>HS44450A</b>	1	
<b>Lower Set</b>	2003-2009	P	Use with Head Set to Make Full Set	<b>CS54450</b>	1

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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<b>1</b> (cont.)	<b>363 CID (6.0L) 32V Turbo V8 3.740" (95.0mm) International Power-Stroke DIESEL</b>					<b>1</b> (cont.)
VIN Codes: '- [VT365]' (2004-2007), 'P [VT365]' (2003-2010)						

**ENGINE GASKETS (CONT.)**

<b>Engine Kit Gasket Set (cont.)</b>	2009		20mm Cylinder Head Dowel, Contains Crankcase To Head Tube Seals, Crankcase To Head Tubes Not Included without Cylinder Head Bolts	<b>95-3641VR</b>	1
	2008		20mm Cylinder Head Dowel, Contains Crankcase To Head Tube Seals, Crankcase To Head Tubes Not Included without Cylinder Head Bolts E-Series, Serial #s 299,093 & After, Serial #s 3,723,722 & After	<b>95-3641VR</b>	1
	2005-2007	P	20mm Cylinder Head Dowel, Contains Crankcase To Head Tube Seals, Crankcase To Head Tubes Not Included without Cylinder Head Bolts F-Series, Serial #s 299,093 & After, Serial #s 3,723,722 & After	<b>95-3641VR</b>	1
			E-Series, Serial #s 299,093 & After, Serial #s 3,723,722 & After		
			2004-2006		
	2003		18mm Cylinder Head Dowel; Contains Crankcase To Head Tube Seals; Crankcase To Head Tubes Not Included; without Cylinder Head Bolts F-Series, Excursion from Serial # 6,155,637 to # 6,723,721	<b>95-3629VR</b>	1
<b>Cyl. Head Gasket</b>	2009		20mm Cylinder Head Dowel; Includes Cylinder Head Dowel <i>Multi-Layered Steel</i>	<b>54579A</b>	2
	2009		20mm Cylinder Head Dowel; Includes Cylinder Head Dowel <i>Multi-Layered Steel</i>	<b>54579</b>	2
	2008		20mm Cylinder Head Dowel; Includes Cylinder Head Dowel E-Series, Serial #s 299,093 & After, Serial #s 3,723,722 & After <i>Multi-Layered Steel</i>	<b>54579A</b>	2
	2008		20mm Cylinder Head Dowel; Includes Cylinder Head Dowel E-Series, Serial #s 299,093 & After, Serial #s 3,723,722 & After <i>Multi-Layered Steel</i>	<b>54579</b>	2
	2005-2007	P	E-Series, Serial #s 299,093 & After, Serial #s 3,723,722 & After	<b>54579A</b>	2
			F-Series, Serial #s 299,093 & After, Serial #s 3,723,722 & After		
			20mm Cylinder Head Dowel; Includes Cylinder Head Dowel <i>Multi-Layered Steel</i>		
	2005-2007	P	E-Series, Serial #s 299,093 & After, Serial #s 3,723,722 & After	<b>54579</b>	2
F-Series, Serial #s 299,093 & After, Serial #s 3,723,722 & After					
20mm Cylinder Head Dowel; Includes Cylinder Head Dowel <i>Multi-Layered Steel</i>					
2004-2006	P	F-Series, Excursion from Serial # 137,745 to # 299,092 from Serial # 6,155,637 to # 6,723,721	<b>54450A</b>	2	
		E-Series from Serial # 137,745 to # 299,092			
		18mm Cylinder Head Dowel; Includes Cylinder Head Dowel <i>Multi-Layered Steel</i>			

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
<b>1</b> (cont.)	<b>363 CID (6.0L) 32V Turbo V8 3.740" (95.0mm) International Power-Stroke DIESEL</b> VIN Codes: '- [VT365]' (2004-2007), 'P [VT365]' (2003-2010)					<b>1</b> (cont.)
<b>ENGINE GASKETS (CONT.)</b>						
<b>Cyl. Head Gasket (cont.)</b>	2004-2006	P	F-Series, Excursion from Serial # 137,745 to # 299,092 from Serial # 6,155,637 to # 6,723,721 E-Series from Serial # 137,745 to # 299,092 18mm Cylinder Head Dowel; Includes Cylinder Head Dowel <i>Multi-Layered Steel</i>		<b>54450</b>	2
	2003		18mm Cylinder Head Dowel; Includes Cylinder Head Dowel F-Series, Excursion from Serial # 137,745 to # 299,092 from Serial # 6,155,637 to # 6,723,721 <i>Multi-Layered Steel</i>		<b>54450A</b>	2
	2003		18mm Cylinder Head Dowel; Includes Cylinder Head Dowel F-Series, Excursion from Serial # 137,745 to # 299,092 from Serial # 6,155,637 to # 6,723,721 <i>Multi-Layered Steel</i>		<b>54450</b>	2
<b>Cyl. Head Bolt Set</b>	2003-2009	P	Long Bolts Only		<b>GS33494</b>	2
	2003-2009	P	Optional; Short Bolts		<b>GS33519</b>	2
<b>Valve Cover Set</b>	2003-2009	P	Contains Valve Cover Grommets; Contains Upper And Lower Valve Cover Gaskets <i>Victo-Tech</i>		<b>VS50395</b>	1
<b>Valve Stem Oil Seal, Intake</b>	2003-2009	P			<b>B45952</b>	16
<b>Valve Stem Oil Seal, Exhaust</b>	2003-2009	P			<b>B45952</b>	16
<b>Manifold Set, Exhaust</b>	2003-2009	P		<i>Multi-Layered Steel</i>	<b>MS19312</b>	1
<b>Manifold Set, Intake</b>	2003-2009	P	Master Set - Contains Intake Manifold Gaskets Plus All Miscellaneous Gaskets and Seals Needed for Intake Installation. <i>Victo-Tech</i>		<b>MIS19311</b>	1
	2003-2009	P		<i>Victo-Tech</i>	<b>MS19311</b>	1
<b>Oil Pan Gasket Set</b>	2003-2009	P		<i>Victo-Tech</i>	<b>OS32271</b>	1
<b>Rear Main Seal Set</b>	2003-2009	P	Contains Rear Main Retainer Gasket Use with Part Number OS32271, Requires Oil Pan Set <i>Teflon</i>		<b>JV1684</b>	1
<b>Timing Cover Set</b>	2003-2009	P		<i>Victo-Tech</i>	<b>JV5066</b>	1
<b>Timing Cover Seal</b>	2003-2009	P		<i>Teflon</i>	<b>67726</b>	1
<b>MISCELLANEOUS GASKETS</b>						
<b>Coolant Outlet Gasket</b>	2003-2009	P			<b>C31801</b>	1
<b>Cyl. Head Dowel Pin</b>	2003-2010				<b>GS33593</b>	1
<b>Exhaust Pipe Flange Gasket</b>	2003-2009	P	Exhaust Y Pipe To Turbo <i>Multi-Layered Steel</i>		<b>F31804</b>	1
<b>Fuel Injector Seal Kit</b>	2003-2009	P	1 Package Will Service 8 Injectors; Contains Upper, Middle, And Lower O-Rings And Washers		<b>GS33442</b>	1
	2003-2009	P	1 Package Will Service 8 Injectors; High Pressure Upper Injector Oil Inlet Seal		<b>GS33445</b>	1
<b>Throttle Body Gasket</b>	2003-2009	P		<i>Victo-Tech</i>	<b>G31817</b>	2
<b>Water Pump Gasket</b>	2007-2009	P		<i>Victo-Tech</i>	<b>K31803</b>	1
	2003-2006	P	From 9/22/03 <i>Victo-Tech</i>		<b>K31803</b>	1
	2003		Thru 9/21/03		<b>K31802</b>	1
<b>VALVE TRAIN &amp; ANCILLARY</b>						
<b>Exhaust Valve</b>	2003-2010	P			<b>211-4277</b>	16
<b>Intake Valve</b>	2003-2010	P			<b>211-4276</b> 211-4276.015	16
<b>Push Rod, Intake and Exhaust</b>	2003-2010	P			<b>215-4354</b>	32

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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<b>1</b> (cont.)	<b>363 CID (6.0L) 32V Turbo V8 3.740" (95.0mm) International Power-Stroke DIESEL</b>					<b>1</b> (cont.)
VIN Codes: '- [VT365]' (2004-2007), 'P [VT365]' (2003-2010)						

**TURBOCHARGERS**

<b>Turbocharger</b>	2004-2010		Use with Part Number GS33576		<b>014TC26159000</b>	1
	2004-2010		Use with Part Number GS33576; Remanufactured		<b>014TC26159100</b>	1
	2003		Use with Part Number GS33576; Remanufactured		<b>015TC21006100</b>	1
<b>Turbo Mounting Set</b>	2003-2009	P			<b>GS33576</b>	1
<b>Turbocharger Service Kit</b>	2004-2010				<b>014TS26159100</b>	1

**FILTERS**

<b>Oil Filter</b>	2003-2010	P			<b>OX 783</b>	1
<b>Air Filter</b>	2004-2010	P			<b>LX 2918</b>	1

<b>2</b>	<b>391 CID (6.4L) 32V Turbo V8 3.860" (98.0mm) Power-Stroke DIESEL</b>					<b>2</b>
VIN Code: 'R' (2008-2010)						

**CYLINDER BLOCK PARTS**

<b>Piston Ring Set</b>	2008-2010		<b>Comp Rings</b> 1 2.50mm 1 2.00mm	<b>Oil Ring</b> 1 3.00mm	<i>Plasma-Moly Carbon Steel</i>	<b>S42097</b> S42097.020 S42097.030	8
	2008-2010		<b>Comp Rings</b> 8 2.50mm 8 2.00mm	<b>Oil Ring</b> 8 3.00mm	<i>Plasma-Moly Carbon Steel</i>	<b>42097</b> 42097.020 42097.030	1

**ENGINE BEARINGS**

<b>Rod Bearing</b>	2008-2010				<i>TM-77</i>	<b>CB-1869P</b> CB-1869P-.25mm CB-1869P-.50mm CB-1869P-.75mm	8
	2008-2010		Connecting Rods With Housing Bore Resized .002" Larger Than Stock		<i>TM-77</i>	<b>CB-1876P-.25mm</b> CB-1876P-.50mm CB-1876P-.75mm	8
<b>Main Bearing Set</b>	2008-2010				<i>TM-77</i>	<b>MS-2269P</b> MS-2269P-.25mm MS-2269P-.50mm MS-2269P-.75mm	1
<b>Cam Bearing Set</b>	2008-2010				<i>B-1</i>	<b>SH-1996S</b>	1

**ENGINE GASKETS**

<b>Head Set</b>	2008-2009		without Cylinder Head Bolts			<b>HS54657</b>	1
<b>Lower Set</b>	2008-2009		Use with Head Set to Make Full Set			<b>CS54657</b>	1
<b>Cyl. Head Gasket</b>	2008-2009		Includes Cylinder Head Dowel		<i>Multi-Layered Steel</i>	<b>54657</b>	2
<b>Cyl. Head Bolt Set</b>	2008-2010		Optional; Short Bolts			<b>GS33519</b>	2
	2008		Long Bolts Only			<b>GS33495</b>	2
<b>Valve Cover Set</b>	2008-2010		Contains Valve Cover Grommets			<b>VS50503</b>	1
<b>Valve Stem Oil Seal, Intake</b>	2008-2009					<b>B45952</b>	16
<b>Valve Stem Oil Seal, Exhaust</b>	2008-2009					<b>B45952</b>	16
<b>Manifold Set, Exhaust</b>	2008-2009				<i>Multi-Layered Steel</i>	<b>MS19312</b>	1
<b>Manifold Set, Intake</b>	2008-2009					<b>MS19637</b>	1
<b>Oil Pan Gasket Set</b>	2008-2009					<b>OS32352</b>	1

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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<b>2</b> (cont.)	<b>391 CID (6.4L) 32V Turbo V8 3.860" (98.0mm) Power-Stroke DIESEL</b> VIN Code: 'R' (2008-2010)					<b>2</b> (cont.)
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### ENGINE GASKETS (CONT.)

<b>Rear Main Seal Set (cont.)</b>	2008-2009		Contains Rear Main Retainer Gasket Use with Part Number OS32352, Requires Oil Pan Set <i>Teflon</i>		<b>JV1684</b>	1
<b>Timing Cover Set</b>	2008-2009				<b>JV5139</b>	1
<b>Timing Cover Seal</b>	2008-2009				<b>67831</b>	1

### MISCELLANEOUS GASKETS

<b>Coolant Hose Connector Gasket, Lower</b>	2008-2009				<b>C32265</b>	1
<b>Coolant Hose Connector Gasket, Upper</b>	2008-2009				<b>C32248</b>	1
<b>Exhaust Pipe to Manifold Gasket</b>	2009			<i>Steel</i>	<b>B32255</b>	2
	2008			<i>Steel</i>	<b>B32256</b>	2
<b>Fuel Injection Nozzle O-Ring</b>	2008-2009		1 Package Will Service 8 Injectors		<b>GS33555</b>	1
<b>Oil Cooler Mounting Kit</b>	2008-2009				<b>GS33565</b>	1
<b>Thermostat Housing Gasket</b>	2008-2009			<i>Victo-Tech</i>	<b>C32243</b>	1
<b>Throttle Body Gasket</b>	2008-2009			<i>Victo-Tech</i>	<b>G31817</b>	2
<b>Water Pump Gasket</b>	2008-2009			<i>Victo-Tech</i>	<b>K32242</b>	1

### TURBOCHARGERS

<b>Turbocharger</b>	2008-2010		Remanufactured; Use with Part Number GS33566; Low Pressure Turbo		<b>014TC21101100</b>	1
	2008-2010		Remanufactured; Use with Part Number GS33566; High Pressure Turbo		<b>014TC21102100</b>	1
<b>Turbo Mounting Set</b>	2008-2009				<b>GS33566</b>	1
<b>Turbocharger Inlet Gasket</b>	2008-2009			<i>Steel</i>	<b>B32255</b>	2
<b>Turbocharger Service Kit</b>	2008-2010				<b>014TS21101100</b>	1

### FILTERS

<b>Oil Filter</b>	2008-2010				<b>OX 783</b>	1
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<b>3</b>	<b>406 CID (6.7L) 32V Turbo V8 3.900" (99.1mm) Power-Stroke DIESEL</b> VIN Code: 'T' (2011-2012)					<b>3</b>
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### CYLINDER BLOCK PARTS

<b>Piston Ring Set</b>	2011-2012		<b>Comp Rings</b> 1 3.00mm 1 2.00mm	<b>Oil Ring</b> 1 2.50mm	<i>Plasma-Moly Carbon Steel</i>	<b>S42168</b> S42168.020 S42168.040	8
	2011-2012		<b>Comp Rings</b> 8 3.00mm 8 2.00mm	<b>Oil Ring</b> 8 2.50mm	<i>Plasma-Moly Carbon Steel</i>	<b>42168</b> 42168.020 42168.040	1


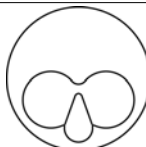
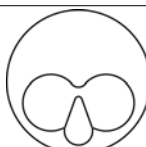
PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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<b>4</b>	<b>445 CID (7.3L) 16V V8 4.110" (104.4mm) International DIESEL</b>					<b>4</b>
VIN Code: 'M' (1988-1994)						

**ENGINE KITS**

<b>Master Rebuild Kit</b>	1988-1991		Contents: 41548, 224-2908(8), CB-1327P(8), MS-1596P, SH-1092S, 229-1872, 213-1725(16), 601-1957, MS15968, 95-3299VR		<b>MK612</b>	1
<b>Re-Ring Kit</b>	1988-1991		Contents: 41548, CB-1327P(8), MS15968, 95-3299VR		<b>RR365</b>	1
<b>ReMain Kit</b>	1988-1991		Contents: 41548, CB-1327P(8), MS-1596P, MS15968, 95-3299VR		<b>RM365</b>	1

**CYLINDER BLOCK PARTS**

<b>Piston</b>	1988-1994		Head Type: Ricardo Bowl Compression Height: Reduced .010"		<i>Aluminum</i>	<b>224-2908</b> 224-2908.020 224-2908.030 224-2908.040	8
	1988-1994		Head Type: Ricardo Bowl		<i>Aluminum</i>	<b>224-3508</b> 224-3508.020 224-3508.030 224-3508.040	8
	1988-1994		Head Type: Ricardo Bowl Compression Height: Reduced .020" Hard Anodized Crown.		<i>Aluminum</i>	<b>224-3509HA</b> 224-3509HA.020 224-3509HA.030 224-3509HA.040	8
<b>Piston Ring Set</b>	1989-1994		with Indirect Injection <b>Comp Rings</b> <b>Oil Ring</b> 8 0.1181"              8 0.136" 8 0.0783"		<i>Plasma-Moly Ductile Iron</i>	<b>41548</b> 41548.020 41548.030 41548.040	1

**ENGINE BEARINGS**

<b>Rod Bearing</b>	1988-1994				<i>TM-112</i>	<b>CB-1327P</b> CB-1327P-10 CB-1327P-20 CB-1327P-30 CB-1327P-40	8
<b>Main Bearing Set</b>	1988-1994				<i>TM-112</i>	<b>MS-1596P</b> MS-1596P-10 MS-1596P-20 MS-1596P-30	1
<b>Cam Bearing Set</b>	1988-1994				<i>B-1</i>	<b>SH-1092S</b>	1
<b>Piston Pin Bushing</b>	1988-1994		Requires Boring		<i>C-1</i>	<b>223-3583</b>	8

**ENGINE GASKETS**

<b>Head Set</b>	1988-1994		Intake Manifold Gasket not Included; without Cylinder Head Bolts		<i>Nitroseal</i>	<b>HS5869</b>	1
<b>Lower Set</b>	1988-1994		Use with Head Set to Make Full Set			<b>CS5869</b>	1
<b>Full Set</b>	1988-1994		Intake Manifold Gasket not Included <i>(To Be Replaced By 95-3299VR)</i>			<b>FS5869</b>	1
<b>Engine Kit Gasket Set</b>	1988-1994		Intake Manifold Gasket not Included; Use with Part Number MS15968			<b>95-3299VR</b>	1

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
<b>4</b> (cont.)	<b>445 CID (7.3L) 16V V8 4.110" (104.4mm) International DIESEL</b>				<b>4</b> (cont.)	
	VIN Code: 'M' (1988-1994)					

### ENGINE GASKETS (CONT.)

Cyl. Head Gasket	1988-1994			Nitroseal	<b>5869G</b>	2
Cyl. Head Bolt Set	1988-1994				<b>GS33348</b>	2
Valve Cover Set	1988-1994			Cork-Rubber	<b>VS39471</b>	1
Valve Stem Oil Seal, Exhaust	1988-1994				<b>B45662</b>	8
Valve Stem Oil Seal, Intake	1990-1994 1988-1989		Contains Positive Type Valve Stem Seals		<b>B45560</b> <b>B45560</b>	8 8
Manifold Set, Exhaust	1988-1994		1 Piece Design; One Piece Head Design Gasket	VR2000	<b>MS15369</b>	1
Manifold Set, Intake	1988-1994				<b>MS15968</b>	1
Oil Pan Gasket	1994		RTV Silicone Sealant; Conventional Oil Pan Gasket not Available, Use Silicone Sealant	Silicone	<b>JV8</b>	1
Oil Pan Gasket Set	1988-1993			Cork-Rubber	<b>OS32053</b>	1
Rear Main Seal Set	1988-1994			Rubber	<b>JV547</b>	1
Timing Cover Set	1988-1994				<b>JV1019</b>	1

### MISCELLANEOUS GASKETS

Axle Housing Cover Gasket	1988-1989		Rear Axle; with Spicer Axle; 60,70 Dana Axle	Paper	<b>P18562</b>	1
	1988-1989		Rear Axle; with Spicer Axle; 60,70 Dana Axle	Tuff-Cork	<b>P18562TC</b>	1
	1988-1989		with Ford WEC, WFS Axle; Rear Axle	Tuff-Cork	<b>P27608TC</b>	1
	1989		Rear Axle; Tuff-Cork		<b>P38163TC</b>	1
Axle Housing Cover Gasket, Rear	1988-1989		with 12 Bolt Holes	Tuff-Cork	<b>P38155TC</b>	1
Axle Shaft Flange Gasket, Rear	1988-1989		with 8 Bolt Holes		<b>J26212</b>	2
Coolant Outlet Gasket, Lower	1988-1994				<b>C24550</b>	1
Coolant Outlet Gasket, Right	1990-1994				<b>C24551</b>	1
Exhaust Pipe Flange Gasket	1988-1994		Flange Gasket; From Exhaust Pipe to Catalytic Converter		<b>F14627</b>	1
Fuel Pump Gasket	1988-1994		Fuel Pump to Spacer	Paper	<b>D27094</b>	1
	1988-1994		Fuel Pump to Spacer	Tuff-Cork	<b>D27094TC</b>	1
Oil Cooler Seal	1988-1994			Victo-Tech	<b>GS33545</b>	1
Thermostat Housing Gasket, Right	1988-1989				<b>C24551</b>	1
Water Pump Gasket	1988-1994		Water Pump Mounting Gasket		<b>K27163</b>	1

### VALVE TRAIN & ANCILLARY

Exhaust Valve	1988-1994				<b>211-2562</b>	8
Intake Valve	1988-1994				<b>211-2561</b>	8
Camshaft	1988-1994				<b>229-1872</b>	1
Oil Pump	1988-1991				<b>601-1957</b>	1
Rocker Arm, Inner	1988-1994		Contains 2 Arms, 2 Pivots And 1 Retainer		<b>214-1131</b>	8
Rocker Arm Bolt	1988-1994				<b>214-1179</b>	16
Valve Guide, Intake and Exhaust	1988-1994		Plain; Universal Type	Iron	<b>217-3450</b>	16
Valve Lifter, Intake and Exhaust	1988-1994		Hydraulic Roller Lifters		<b>213-1725</b>	16

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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<b>4</b> (cont.)	<b>445 CID (7.3L) 16V V8 4.110" (104.4mm) International DIESEL</b> VIN Code: 'M' (1988-1994)					<b>4</b> (cont.)
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**VALVE TRAIN & ANCILLARY (CONT.)**



<b>Valve Seat, Intake</b>	1988-1994				<b>218-7921</b>	8
<b>Valve Seat, Exhaust</b>	1988-1994				<b>218-7920</b> 218-7920.015	8
<b>Valve Spring, Intake and Exhaust</b>	1988-1994		Used with Rotocap		<b>212-1094</b>	16
	1988-1994		Used without Rotocap		<b>212-1385</b>	16
<b>Valve Spring Retainer Keeper, Intake and Exhaust</b>	1988-1994				<b>216-5144A</b>	32
	1988-1994		Hardened Steel		<b>216-5145</b>	32

**FILTERS**

<b>Oil Filter</b>	1988-1994				<b>OC 239</b>	1
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<b>5</b>	<b>445 CID (7.3L) 16V Turbo V8 4.110" (104.4mm) International DIESEL</b> VIN Codes: 'C' (1992-1993), 'K' (1994)					<b>5</b>
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**CYLINDER BLOCK PARTS**

<b>Piston</b>	1994		Head Type: Ricardo Bowl Hard anodized crown. Keystone top and second ring. Big pin.		<i>Aluminum</i>	<b>224-3511HA</b> 224-3511HA.020 224-3511HA.030 224-3511HA.040	8
	1994		Head Type: Ricardo Bowl Compression Height: Reduced .010" Hard Anodized Crown. Keystone top and second ring. Big Pin.		<i>Aluminum</i>	<b>224-3512HA</b> 224-3512HA.020 224-3512HA.030 224-3512HA.040	8

**ENGINE BEARINGS**

<b>Rod Bearing</b>	1992-1994				<i>TM-112</i>	<b>CB-1327P</b> CB-1327P-10 CB-1327P-20 CB-1327P-30 CB-1327P-40	8
<b>Main Bearing Set</b>	1992-1994				<i>TM-112</i>	<b>MS-1596P</b> MS-1596P-10 MS-1596P-20 MS-1596P-30	1
<b>Cam Bearing Set</b>	1992-1994				<i>B-1</i>	<b>SH-1092S</b>	1
<b>Piston Pin Bushing</b>	1992-1994		Requires Boring		<i>C-1</i>	<b>223-3583</b>	8

**ENGINE GASKETS**

<b>Head Set</b>	1994		Valve Cover Set not Included; without Cylinder Head Bolts Fuel Injection O-Rings Not Included Use with Part Number GS33440 (8)		<i>Nitroseal</i>	<b>HS54204A</b>	1
<b>Lower Set</b>	1994		Use with Head Set to Make Full Set			<b>CS54204A</b>	1
<b>Engine Kit Gasket Set</b>	1994		Valve Cover Set not Included Fuel Injection O-Rings Not Included Use with Part Number GS33440 (8)			<b>95-3584VR</b>	1
<b>Cyl. Head Gasket</b>	1994				<i>Nitroseal</i>	<b>54204</b>	2



PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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<b>5</b> (cont.)	<b>445 CID (7.3L) 16V Turbo V8 4.110" (104.4mm) International DIESEL</b> VIN Codes: 'C' (1992-1993), 'K' (1994)					<b>5</b> (cont.)
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### ENGINE GASKETS (CONT.)

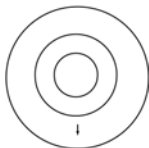
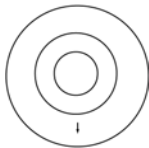
<b>Cyl. Head Bolt Set</b>	1994				<b>GS33379</b>	2
<b>Valve Cover Set</b>	1994		Single Valve Cover	<i>Victo-Tech</i>	<b>VS50328</b>	2
<b>Valve Stem Oil Seal, Exhaust</b>	1994				<b>B45897</b>	8
<b>Valve Stem Oil Seal, Intake</b>	1994				<b>B45897</b>	8
<b>Manifold Set, Exhaust</b>	1994			<i>Nitroseal</i>	<b>MS16314</b>	1
<b>Crankshaft Seal, Rear</b>	1994			<i>Teflon</i>	<b>67628</b>	1
<b>Timing Cover Seal</b>	1994				<b>67631</b>	1

### MISCELLANEOUS GASKETS

<b>Exhaust Pipe Flange Gasket</b>	1993-1994		Flange Gasket; From Exhaust Pipe to Catalytic Converter		<b>F14627</b>	1
<b>Fuel Injection Nozzle O-Ring</b>	1994		1 Package Will Service 1 Injectors		<b>GS33440</b>	8
<b>Fuel Pump Gasket</b>	1993-1994		Fuel Pump to Spacer	<i>Paper</i>	<b>D27094</b>	1
	1993		Fuel Pump to Spacer	<i>Tuff-Cork</i>	<b>D27094TC</b>	1
<b>Oil Cooler Seal</b>	1993-1994			<i>Victo-Tech</i>	<b>GS33545</b>	1
<b>Water Pump Gasket</b>	1994			<i>Victo-Tech</i>	<b>K31779</b>	1

<b>6</b>	<b>445 CID (7.3L) 16V Turbo V8 4.110" (104.4mm) International Power-Stroke DIESEL</b> VIN Codes: 'F' (1994-2003), 'F [T444E]' (2000-2003)					<b>6</b>
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### CYLINDER BLOCK PARTS

<b>Piston</b>	1996-2003		Head Type: Reentrant Bowl Keystone top ring		<i>Aluminum</i>	<b>224-3163</b> 224-3163.010 224-3163.020 224-3163.030 224-3163.040	8
	1996-2003		Head Type: Reentrant Bowl Compression Height: Reduced .010" Keystone top ring		<i>Aluminum</i>	<b>224-3409</b> 224-3409.010 224-3409.020 224-3409.030 224-3409.040	8
<b>Piston w/Rings</b>	1996-2003		Contents: 224-3409, S41768 Piston Rings Not Installed		<i>Aluminum</i>	<b>225-3409</b> 225-3409.020 225-3409.030 225-3409.040	8
<b>Piston Ring Set</b>	1999-2003		with Direct Injection <b>Comp Rings</b> <b>Oil Ring</b> 1 0.1181"              1 0.136" 1 0.0783"		<i>Plasma-Moly Ductile Iron</i>	<b>S41768</b> S41768.010 S41768.020 S41768.030 S41768.040	8
	1999-2003		with Direct Injection <b>Comp Rings</b> <b>Oil Ring</b> 8 0.1181"              8 0.136" 8 0.0783"		<i>Plasma-Moly Ductile Iron</i>	<b>41768</b> 41768.020 41768.030 41768.040	1

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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<b>6</b> (cont.)	<b>445 CID (7.3L) 16V Turbo V8 4.110" (104.4mm) International Power-Stroke DIESEL</b> VIN Codes: 'F' (1994-2003), 'F [T444E]' (2000-2003)					<b>6</b> (cont.)
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**CYLINDER BLOCK PARTS (CONT.)**

<b>Piston Ring Set (cont.)</b>	1994-1998		<b>Comp Rings</b> 1 0.1181" 1 0.0783"	<b>Oil Ring</b> 1 0.136"	<i>Plasma-Moly Ductile Iron</i>	<b>S41768</b> S41768.010 S41768.020 S41768.030 S41768.040	8
	1994-1998		<b>Comp Rings</b> 8 0.1181" 8 0.0783"	<b>Oil Ring</b> 8 0.136"	<i>Plasma-Moly Ductile Iron</i>	<b>41768</b> 41768.020 41768.030 41768.040	1

**ENGINE BEARINGS**

<b>Rod Bearing</b>	1994-2003				<i>TM-112</i>	<b>CB-1633P</b> CB-1633P-10 CB-1633P-20 CB-1633P-30 CB-1633P-40	8
<b>Main Bearing Set</b>	1994-2003				<i>TM-112</i>	<b>MS-2034P</b> MS-2034P-10 MS-2034P-20 MS-2034P-30	1
<b>Cam Bearing Set</b>	1994-2003				<i>B-1</i>	<b>SH-1092S</b>	1
<b>Piston Pin Bushing</b>	1994-2003		Requires Light Reaming		<i>C-1</i>	<b>223-3652</b>	8

**ENGINE GASKETS**

<b>Head Set</b>	1994-2003		Valve Cover Set not Included; without Cylinder Head Bolts Fuel Injection O-Rings Not Included Use with Part Number GS33440 (8)		<i>Nitroseal</i>	<b>HS54204A</b>	1
<b>Lower Set</b>	1994-2003		Use with Head Set to Make Full Set			<b>CS54204A</b>	1
<b>Engine Kit Gasket Set</b>	1994-2003		Valve Cover Set not Included Fuel Injection O-Rings Not Included Use with Part Number GS33440 (8)			<b>95-3584VR</b>	1
<b>Cyl. Head Gasket</b>	1994-2003				<i>Nitroseal</i>	<b>54204</b>	2
<b>Cyl. Head Bolt Set</b>	1994-2003					<b>GS33379</b>	2
<b>Valve Cover Set</b>	1998-2003		Single Valve Cover		<i>Victo-Tech</i>	<b>VS50329</b>	2
	1994-1997		Single Valve Cover		<i>Victo-Tech</i>	<b>VS50328</b>	2
<b>Valve Stem Oil Seal, Exhaust</b>	1994-2003					<b>B45897</b>	8
<b>Valve Stem Oil Seal, Intake</b>	1994-2003					<b>B45897</b>	8
<b>Manifold Set, Exhaust</b>	1994-2003				<i>Nitroseal</i>	<b>MS16314</b>	1
<b>Crankshaft Seal, Rear</b>	1994-2003				<i>Teflon</i>	<b>67628</b>	1
<b>Timing Cover Seal</b>	1994-2003					<b>67631</b>	1

**MISCELLANEOUS GASKETS**

<b>Coolant Outlet Gasket</b>	1994-2003					<b>C32036</b>	1
<b>Exhaust Pipe Flange Gasket</b>	1994		Flange Gasket; From Exhaust Pipe to Catalytic Converter			<b>F14627</b>	1
<b>Fuel Injection Nozzle O-Ring</b>	1994-2003		1 Package Will Service 1 Injectors			<b>GS33440</b>	8
<b>Oil Cooler Seal</b>	1994-2003				<i>Victo-Tech</i>	<b>GS33545</b>	1

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
<b>6</b> (cont.)	<b>445 CID (7.3L) 16V Turbo V8 4.110" (104.4mm) International Power-Stroke DIESEL</b>				<b>6</b> (cont.)	
VIN Codes: 'F' (1994-2003), 'F [T444E]' (2000-2003)						

### MISCELLANEOUS GASKETS (CONT.)

<b>Water Pump Gasket</b>	1994-2003			<i>Victo-Tech</i>	<b>K31779</b>	1
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### VALVE TRAIN & ANCILLARY

<b>Exhaust Valve</b>	1994-2003				<b>211-4080</b>	8
<b>Intake Valve</b>	1994-2003				<b>211-4079</b>	8
<b>Push Rod</b>	1994-2003		Intake & Exhaust		<b>215-4343</b>	16
<b>Valve Lifter, Intake and Exhaust</b>	1994-2003		Hydraulic Roller Lifters		<b>213-1725</b>	16
<b>Valve Spring, Intake and Exhaust</b>	1994-2003		Used with Rotocap		<b>212-1094</b>	16
	1994-2003		Used without Rotocap		<b>212-1385</b>	16
<b>Valve Spring Retainer Keeper, Intake and Exhaust</b>	1994-2003				<b>216-5006</b>	32

### TURBOCHARGERS

<b>Turbocharger</b>	1997-2003				<b>014TC26158000</b>	1
	1997-2003		Use with Part Number 015TP21003000		<b>015TC21003000</b>	1
	2000-2003				<b>015TC21004100</b>	1
	1999-2003		Remanufactured; From # 7-1999; without Exhaust Back Pressure Valve		<b>015TC21005100</b>	1
	1994-1997		Remanufactured; A/R 1.15		<b>144TC24007100</b>	1
	1994-1997		A/R 1.00		<b>144TC24008000</b>	1
	1994-1997		Remanufactured; A/R 1.00		<b>144TC24008100</b>	1
	1994-1997		A/R .84		<b>144TC24010000</b>	1
	1994-1997		Remanufactured; A/R .84		<b>144TC24010100</b>	1
<b>Turbocharger Mounting Pedestal</b>	1997-2003				<b>015TP21003000</b>	1

### FILTERS

<b>Air Filter</b>	1995-2003		Model # E-Series		<b>LX 2569</b>	1
	1999-2003				<b>LX 2928</b>	1

## GENERAL MOTORS TRUCK

ENGINE	YEAR	BLOCK
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379 CID (6.2L) 16V V8 Chevrolet DIESEL	1982-1993	1
395 CID (6.5L) 16V V8 Chevrolet DIESEL	1994-1999	2
395 CID (6.5L) 16V Turbo. V8 Chevrolet DIESEL	1992-2002	3
403 CID (6.6L) 32V Turbo. V8 Duramax DIESEL	2001-2012	4

MODEL	ENGINE	YEAR	BLOCK
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B7	395 CID (6.5L) 16V Turbo V8 4.055" (103.0mm) Chevrolet L65 DIESEL	1997-1998	3
Blazer	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LH6 DIESEL	1987-1991	1

MODEL	ENGINE	YEAR	BLOCK
Blazer	395 CID (6.5L) 16V Turbo V8 4.055" (103.0mm) Chevrolet L56 DIESEL	1994	3
C/K-Series	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LL4 DIESEL	1982-1986, 1988-1993	1
C/K-Series	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LH6 DIESEL	1982-1986, 1988-1993	1
C/K-Series	395 CID (6.5L) 16V V8 4.055" (103.0mm) Chevrolet L49 DIESEL	1994-1995	2
C/K-Series	395 CID (6.5L) 16V Turbo V8 4.055" (103.0mm) Chevrolet L56 DIESEL	1992-2002	3
C/K-Series	395 CID (6.5L) 16V Turbo V8 4.055" (103.0mm) Chevrolet L65 DIESEL	1992-2002	3
C/K-Series	403 CID (6.6L) 32V Turbo V8 4.055" (103.0mm) Duramax LLY DIESEL	2003-2009	4
C/K-Series	403 CID (6.6L) 32V Turbo V8 4.055" (103.0mm) Duramax LB7 DIESEL	2003-2009	4
C/K-Series	403 CID (6.6L) 32V Turbo V8 4.055" (103.0mm) Duramax LMM DIESEL	2003-2009	4
Express	395 CID (6.5L) 16V Turbo V8 4.055" (103.0mm) Chevrolet L65 DIESEL	1996-2002	3
Express	403 CID (6.6L) 32V Turbo V8 4.055" (103.0mm) Duramax LLY DIESEL	2006-2012	4
Express	403 CID (6.6L) 32V Turbo V8 4.055" (103.0mm) Duramax LGH DIESEL	2006-2012	4
Express	403 CID (6.6L) 32V Turbo V8 4.055" (103.0mm) Duramax LMM DIESEL	2006-2012	4
Express 4500	403 CID (6.6L) 32V Turbo V8 4.055" (103.0mm) Duramax LMM DIESEL	2009-2011	4
Express 4500	403 CID (6.6L) 32V Turbo V8 4.055" (103.0mm) Duramax LGH DIESEL	2009-2011	4
G-Series	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LL4 DIESEL	1983-1993	1
G-Series	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LH6 DIESEL	1983-1993	1
G-Series	395 CID (6.5L) 16V V8 4.055" (103.0mm) Chevrolet L57 DIESEL	1994-1996	2
G-Series	395 CID (6.5L) 16V V8 4.055" (103.0mm) Chevrolet L49 DIESEL	1994-1996	2
Jimmy	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LH6 DIESEL	1982-1991	1
K5 Blazer	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LH6 DIESEL	1982-1986	1
P-Series	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LL4 DIESEL	1982-1993	1
P-Series	395 CID (6.5L) 16V V8 4.055" (103.0mm) Chevrolet L57 DIESEL	1994-1999	2
P-Series	395 CID (6.5L) 16V Turbo V8 4.055" (103.0mm) Chevrolet L65 DIESEL	1994-1999	3
P20	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LL4 DIESEL	1982-1989	1
P2500	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LL4 DIESEL	1982-1989	1
R-Series	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LL4 DIESEL	1987-1991	1
R-Series Suburban	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LL4 DIESEL	1987-1991	1
R-Series Suburban	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LH6 DIESEL	1987-1991	1
R10	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LH6 DIESEL	1987	1
R10 Suburban	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LH6 DIESEL	1987-1988	1
R1500	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LH6 DIESEL	1987	1
R20	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LL4 DIESEL	1987-1988	1
R20	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LH6 DIESEL	1987-1988	1
R20 Suburban	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LL4 DIESEL	1987-1988	1
R2500	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LL4 DIESEL	1987-1989	1
R2500	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LH6 DIESEL	1987-1989	1
R30	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LL4 DIESEL	1987-1988	1
Savana	395 CID (6.5L) 16V Turbo V8 4.055" (103.0mm) Chevrolet L65 DIESEL	1996-2002	3
Savana	403 CID (6.6L) 32V Turbo V8 4.055" (103.0mm) Duramax LMM DIESEL	2006-2012	4

MODEL	ENGINE	YEAR	BLOCK
Savana	403 CID (6.6L) 32V Turbo V8 4.055" (103.0mm) Duramax LLY DIESEL	2006-2012	4
Savana	403 CID (6.6L) 32V Turbo V8 4.055" (103.0mm) Duramax LGH DIESEL	2006-2012	4
Sierra	403 CID (6.6L) 32V Turbo V8 4.055" (103.0mm) Duramax LB7 DIESEL	2001-2012	4
Sierra	403 CID (6.6L) 32V Turbo V8 4.055" (103.0mm) Duramax LMM DIESEL	2001-2012	4
Sierra	403 CID (6.6L) 32V Turbo V8 4.055" (103.0mm) Duramax LLY DIESEL	2001-2012	4
Sierra	403 CID (6.6L) 32V Turbo V8 4.055" (103.0mm) Duramax LBZ DIESEL	2001-2012	4
Sierra	403 CID (6.6L) 32V Turbo V8 4.055" (103.0mm) Duramax LML DIESEL	2001-2012	4
Sierra	403 CID (6.6L) 32V Turbo V8 4.055" (103.0mm) Duramax LGH DIESEL	2001-2012	4
Silverado	403 CID (6.6L) 32V Turbo V8 4.055" (103.0mm) Duramax LBZ DIESEL	2001-2012	4
Silverado	403 CID (6.6L) 32V Turbo V8 4.055" (103.0mm) Duramax LML DIESEL	2001-2012	4
Silverado	403 CID (6.6L) 32V Turbo V8 4.055" (103.0mm) Duramax LGH DIESEL	2001-2012	4
Silverado	403 CID (6.6L) 32V Turbo V8 4.055" (103.0mm) Duramax LB7 DIESEL	2001-2012	4
Silverado	403 CID (6.6L) 32V Turbo V8 4.055" (103.0mm) Duramax LMM DIESEL	2001-2012	4
Silverado	403 CID (6.6L) 32V Turbo V8 4.055" (103.0mm) Duramax LLY DIESEL	2001-2012	4
Tahoe	395 CID (6.5L) 16V Turbo V8 4.055" (103.0mm) Chevrolet L56 DIESEL	1995-1999	3
V-Series	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LL4 DIESEL	1987-1991	1
V-Series Suburban	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LL4 DIESEL	1987-1991	1
V-Series Suburban	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LH6 DIESEL	1987-1991	1
V10	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LH6 DIESEL	1987	1
V10 Suburban	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LH6 DIESEL	1987-1988	1
V1500	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LH6 DIESEL	1987	1
V20	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LH6 DIESEL	1987	1
V20	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LL4 DIESEL	1987	1
V20 Suburban	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LL4 DIESEL	1987-1988	1
V2500	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LH6 DIESEL	1987	1
V2500	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LL4 DIESEL	1987	1
V30	379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet LL4 DIESEL	1987-1988	1
Yukon	395 CID (6.5L) 16V Turbo V8 4.055" (103.0mm) Chevrolet L56 DIESEL	1994-1997	3


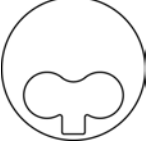
PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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<b>1</b>	<b>379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet DIESEL</b>					<b>1</b>
VIN Codes: 'C [LH6]' (1982-1993), 'J [LL4]' (1982-1993)						

### ENGINE KITS

<b>Master Rebuild Kit</b>	1992-1993	C	Contents: 41296, 224-2185(8), CB-1286P(8), MS-2091P, SH-1366S, 229-1849, 213-1725(16), 9-3074, 601-2016, 219-9613, CS3678A, HS3678		<b>MK817</b>	1
	1992-1993	J	Contents: 41296, 224-2185(8), CB-1286P(8), MS-2091P, SH-1366S, 229-1849, 213-1725(16), 9-3074, 601-2016, 219-9613, MS15335, CS3678A, HS3678		<b>MK818</b>	1
	1991	C	Contents: 41296, 224-2185(8), CB-1286P(8), MS-2091P, SH-1366S, 229-1849, 213-1725(16), 9-3074, 601-2016, 219-9613, MS15306, 95-3131VR		<b>MK218</b>	1
	1982-1991	J	Contents: 41296, 224-2185(8), CB-1286P(8), MS-2091P, SH-1366S, 229-1849, 213-1725(16), 9-3074, 601-2016, 219-9613, MS15335, 95-3131VR		<b>MK219</b>	1
	1990		Contents: 41296, 224-2185(8), CB-1286P(8), MS-2091P, SH-1366S, 229-1849, 213-1725(16), 9-3074, 601-2016, 219-9613, MS15306, 95-3131VR		<b>MK218</b>	1
	1982-1989	C	Contents: 41296, 224-2185(8), CB-1286P(8), MS-2091P, SH-1366S, 229-1849, 213-1725(16), 9-3074, 601-2016, 219-9613, MS15306, 95-3131VR		<b>MK218</b>	1
<b>Re-Ring Kit</b>	1992-1993	C	Contents: 41296, CB-1286P(8), CS3678A, HS3678		<b>RR817</b>	1
	1992-1993	J	Contents: 41296, CB-1286P(8), MS15335, CS3678A, HS3678		<b>RR818</b>	1
	1991	C	Contents: 41296, CB-1286P(8), MS15306, 95-3131VR		<b>RR218</b>	1
	1982-1991	J	Contents: 41296, CB-1286P(8), MS15335, 95-3131VR		<b>RR219</b>	1
	1990		Contents: 41296, CB-1286P(8), MS15306, 95-3131VR		<b>RR218</b>	1
	1982-1989	C	Contents: 41296, CB-1286P(8), MS15306, 95-3131VR		<b>RR218</b>	1
<b>ReMain Kit</b>	1992-1993	C	Contents: 41296, CB-1286P(8), MS-2091P, CS3678A, HS3678		<b>RM817</b>	1
	1992-1993	J	Contents: 41296, CB-1286P(8), MS-2091P, MS15335, CS3678A, HS3678		<b>RM818</b>	1
	1991	C	Contents: 41296, CB-1286P(8), MS-2091P, MS15306, 95-3131VR		<b>RM218</b>	1
	1990		Contents: 41296, CB-1286P(8), MS-2091P, MS15306, 95-3131VR		<b>RM218</b>	1
	1982-1989	C	Contents: 41296, CB-1286P(8), MS-2091P, MS15306, 95-3131VR		<b>RM218</b>	1

### CYLINDER BLOCK PARTS

<b>Piston</b>	1982-1993		Head Type: Ricardo Bowl Cylinders 1 through 6 require .0045" piston to cylinder wall clearance, cylinders 7 and 8 require .0055" piston to cylinder wall clearance.		Aluminum	<b>224-2185</b> 224-2185.020 224-2185.030 224-2185.040	8
	1982-1993		Head Type: Ricardo Bowl Compression Height: Reduced .010" Cylinders 1 through 6 require .0045" piston to cylinder wall clearance, cylinders 7 and 8 require .0055" piston to cylinder wall clearance.		Aluminum	<b>224-3496.020</b> 224-3496.030 224-3496.040	8

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
<b>1</b> (cont.)	<b>379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet DIESEL</b>					<b>1</b> (cont.)
VIN Codes: 'C [LH6]' (1982-1993), 'J [LL4]' (1982-1993)						
<b>CYLINDER BLOCK PARTS (CONT.)</b>						
Piston Ring Set (cont.)	1982-1993		<b>Comp Rings</b> 8 3.00mm 8 2.00mm	<b>Oil Ring</b> 8 4.00mm	<i>Chrome Ductile Iron</i> <b>41296</b> 41296.020 41296.030 41296.040 41296.060	1
	1982-1993		<b>Comp Rings</b> 8 3.00mm 8 2.00mm	<b>Oil Ring</b> 8 4.00mm	<i>Plasma-Moly Ductile Iron</i> <b>41549</b> 41549.020 41549.030 41549.040	1
<b>ENGINE BEARINGS</b>						
Rod Bearing	1982-1993			<i>TM-77</i>	<b>CB-1286P</b> CB-1286P-.026mm CB-1286P-.25mm CB-1286P-.50mm CB-1286P-.75mm	8
Main Bearing Set	1982-1993			<i>TM-77</i>	<b>MS-2091P</b> MS-2091P-.026mm MS-2091P-.25mm MS-2091P-.50mm MS-2091P-.75mm	1
Cam Bearing Set	1982-1993			<i>B-1</i>	<b>SH-1366S</b>	1
Piston Pin Bushing	1982-1993		Requires Boring	<i>C-1</i>	<b>223-3576</b>	8
<b>ENGINE GASKETS</b>						
Head Set	1982-1993		Exhaust Pipe Gasket not Included; without Cylinder Head Bolts; Heavy Duty Intake Manifold Gasket not Included; Positive Type Valve Stem Seals not Included	<i>Solicor</i>	<b>HS3678</b>	1
Lower Set	1992-1993		Use with Head Set to Make Full Set		<b>CS3678A</b>	1
	1982-1991		Use with Head Set to Make Full Set		<b>CS3678B</b>	1
Engine Kit Gasket Set	1992-1993		VIN C with Engine Code C: Use with Part Number B45812, MS15306		<b>95-3503VR</b>	1
			VIN J with Engine Code J: Use with Part Number B45812, MS15335			
			Intake Manifold Gasket not Included; Positive Type Valve Stem Seals not Included			
	1992-1993	C	Intake Manifold Gasket not Included; Positive Type Valve Stem Seals not Included; Use with Part Number B45812, MS15306; Contains .010" Thicker Head Gasket		<b>95-3504VR</b>	1
	1992-1993	J	Intake Manifold Gasket not Included; Positive Type Valve Stem Seals not Included; Use with Part Number B45812, MS15335; Contains .010" Thicker Head Gasket		<b>95-3504VR</b>	1
	1982-1991		VIN C: Use with Part Number B45812, MS15306 VIN J: Use with Part Number B45812, MS15335 Intake Manifold Gasket not Included; Positive Type Valve Stem Seals not Included		<b>95-3131VR</b>	1
Cyl. Head Gasket	1982-1993		Contains .010" Thicker Head Gasket	<i>Solicor</i>	<b>3678T</b>	2
	1982-1993			<i>Solicor</i>	<b>3678</b>	2

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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<b>1</b> (cont.)	<b>379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet DIESEL</b> VIN Codes: 'C [LH6]' (1982-1993), 'J [LL4]' (1982-1993)					<b>1</b> (cont.)
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### ENGINE GASKETS (CONT.)

<b>Cyl. Head Bolt Set</b>	1982-1993				<b>GS33193</b>	2
<b>Valve Cover Set</b>	1982-1993			<i>Cork-Rubber</i>	<b>VS38327</b>	1
<b>Valve Stem Oil Seal, Exhaust</b>	1982-1993		O-Ring Type	<i>Nitrile</i>	<b>B45229</b>	8
	1988-1993		Positive Type		<b>B45812</b>	8
<b>Valve Stem Oil Seal, Intake</b>	1982-1993		O-Ring Type	<i>Nitrile</i>	<b>B45229</b>	8
<b>Manifold Set, Exhaust</b>	1982-1993				<b>MS15336</b>	1
<b>Manifold Set, Intake</b>	1990-1993	C	Light Duty		<b>MS15306</b>	1
	1990-1993	J	Heavy Duty; Not Contained in Head or Full Set		<b>MS15335</b>	1
	1982-1989	C	Light Duty		<b>MS15306</b>	1
	1982-1989	J	Not Contained in Head or Full Set; Heavy Duty		<b>MS15335</b>	1
<b>Oil Pan Gasket Set</b>	1992-1993			<i>Cork-Rubber</i>	<b>OS32134</b>	1
	1982-1991			<i>Cork-Rubber</i>	<b>OS30591</b>	1
<b>Rear Main Seal Set</b>	1992-1993		1 Piece		<b>JV1617</b>	1
	1982-1991		2 Piece Split Seal		<b>JV560</b>	1
	1982-1987			<i>Rope Packing</i>	<b>JV749</b>	1
<b>Timing Cover Set</b>	1982-1993		Contains Repair Sleeve		<b>JV1134</b>	1
	1982-1993		Repair Sleeve not Included		<b>JV971</b>	1
<b>Timing Cover Seal</b>	1982-1993				<b>46467</b>	1
<b>Timing Cover Gasket</b>	1982-1993				<b>T31352</b>	1

### MISCELLANEOUS GASKETS

<b>Air Cleaner Mounting Gasket</b>	1982-1993				<b>G27655</b>	1
<b>Auto Trans Differential Cover Gasket</b>	1982-1989		Front Axle; with General Motors Axle		<b>P27990</b>	1
<b>Auto Trans Power Take Off Gasket</b>	1985-1989	J	with Chelsea Power Take-Off; with 6 Bolt Holes; .010" Thick		<b>H26205</b>	1
	1985-1989	J	with Chelsea Power Take-Off; with 6 Bolt Holes; .020" Thick		<b>H26206</b>	1
	1985-1989	J	with Chelsea Power Take-Off; 8 Bolt; .010" Thick		<b>H26207</b>	1
	1985-1989	J	with Chelsea Power Take-Off; with 6 Bolt Holes		<b>H36080</b>	1
	1984		with Chelsea Power Take-Off; with 6 Bolt Holes; .010" Thick		<b>H26205</b>	1
	1984		with Chelsea Power Take-Off; with 6 Bolt Holes; .020" Thick		<b>H26206</b>	1
	1984		with Chelsea Power Take-Off; 8 Bolt; .010" Thick		<b>H26207</b>	1
	1984		with Chelsea Power Take-Off; with 6 Bolt Holes		<b>H36080</b>	1
	1982-1983	J	with Chelsea Power Take-Off; with 6 Bolt Holes; .010" Thick		<b>H26205</b>	1
	1982-1983	J	with Chelsea Power Take-Off; with 6 Bolt Holes; .020" Thick		<b>H26206</b>	1
	1982-1983	J	with Chelsea Power Take-Off; 8 Bolt; .010" Thick		<b>H26207</b>	1
	1982-1983	J	with Chelsea Power Take-Off; with 6 Bolt Holes		<b>H36080</b>	1
<b>Axle Housing Cover Gasket</b>	1985-1989	J	Rear Axle; Dana Axles; with 7500lb Axles; with 14000lb Axles	<i>Paper</i>	<b>P18562</b>	1
	1985-1989	J	Rear Axle; Dana Axles; with 7500lb Axles; with 14000lb Axles	<i>Tuff-Cork</i>	<b>P18562TC</b>	1
	1984-1989		with 10 Bolt Holes; Rear Axle; without Posi-Traction; with 8-1/2" Ring Gear; without 7500lb Axle		<b>P27857</b>	1



PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
<b>1</b> (cont.)	<b>379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet DIESEL</b> VIN Codes: 'C [LH6]' (1982-1993), 'J [LL4]' (1982-1993)					<b>1</b> (cont.)
<b>MISCELLANEOUS GASKETS (CONT.)</b>						
<b>Axle Housing Cover Gasket (cont.)</b>	1984-1989		with 10 Bolt Holes; Rear Axle; without Posi-Traction; with 8-1/2" Ring Gear; without 7500lb Axle	<i>Tuff-Cork</i>	<b>P27857TC</b>	1
	1982-1989		Rear Axle; with 10-1/2" Ring Gear; Except Dana Axle		<b>P28128</b>	1
	1984-1989		with 9-1/2" Ring Gear; Rear Axle	<i>Tuff-Cork</i>	<b>P29139TC</b>	1
	1983-1984		Rear Axle; Dana Axles; with 7500lb Axles; with 14000lb Axles	<i>Paper</i>	<b>P18562</b>	1
	1983-1984		Rear Axle; Dana Axles; with 7500lb Axles; with 14000lb Axles	<i>Tuff-Cork</i>	<b>P18562TC</b>	1
	1983	C	with 10 Bolt Holes; Rear Axle; without Posi-Traction; with 8-1/2" Ring Gear; without 7500lb Axle		<b>P27857</b>	1
	1983	C	with 10 Bolt Holes; Rear Axle; without Posi-Traction; with 8-1/2" Ring Gear; without 7500lb Axle	<i>Tuff-Cork</i>	<b>P27857TC</b>	1
	1982	J	Rear Axle; Dana Axles; with 7500lb Axles; with 14000lb Axles	<i>Paper</i>	<b>P18562</b>	1
	1982	J	Rear Axle; Dana Axles; with 7500lb Axles; with 14000lb Axles	<i>Tuff-Cork</i>	<b>P18562TC</b>	1
	1982		with 10 Bolt Holes; Rear Axle; without Posi-Traction; with 8-1/2" Ring Gear; without 7500lb Axle		<b>P27857</b>	1
	1982		with 10 Bolt Holes; Rear Axle; without Posi-Traction; with 8-1/2" Ring Gear; without 7500lb Axle	<i>Tuff-Cork</i>	<b>P27857TC</b>	1
	1982		Rear Axle; with 12 Bolt Holes; with Posi-Traction		<b>P27940</b>	1
<b>Axle Shaft Flange Gasket, Rear</b>	1982-1989		Except Dana Axle; with 10-1/2" Ring Gear; without 11000lb Axle		<b>J17829</b>	2
<b>Coolant Outlet Gasket</b>	1982-1993		with 2 Bolt Hole Housing		<b>C24125</b>	1
	1990-1993		Crossover		<b>C30677</b>	2
	1982-1993		with 3 Bolt Hole Housing		<b>C30811</b>	1
	1982-1987		Crossover		<b>C30677</b>	2
<b>Exhaust Seal Ring</b>	1982-1993		Ring Type 'E'; Exhaust Pipe to Manifold		<b>F7507</b>	1
<b>Fuel Pump Gasket</b>	1982-1993		For Injection Pump		<b>B26454</b>	1
<b>Fuel Pump Gasket</b>	1982-1993		Plate To Block	<i>Paper</i>	<b>D25932</b>	1
	1982-1993		Plate To Block	<i>Tuff-Cork</i>	<b>D25932TC</b>	1
	1982-1993		Fuel Pump to Spacer	<i>Paper</i>	<b>D27094</b>	1
	1982-1993		Fuel Pump to Spacer	<i>Tuff-Cork</i>	<b>D27094TC</b>	1
<b>Manual Trans Gasket Set</b>	1982-1987		with Muncie 4 Speed Transmission		<b>TS27920Y</b>	1
<b>Oil Drain Plug Gasket</b>	1982-1993		with English Threads; with 1/2" I.D.		<b>2051</b>	1
<b>Thermostat Housing Gasket</b>	1982-1989		Crossover		<b>C30677</b>	2
<b>Transfer Case Gasket</b>	1982-1983		with New Process 205 Transfer Case; Set		<b>TS27275</b>	1
<b>Water Pump Gasket</b>	1982-1993		without Reverse Rotation; Water Pump Mounting Gasket		<b>K27395</b>	1
	1990-1993		with Reverse Rotation		<b>K31288</b>	1
	1982-1993		Plate To Timing Cover; Water Pump Mounting Gasket		<b>K31317</b>	1
	1988-1989		with Reverse Rotation		<b>K31288</b>	1
<b>VALVE TRAIN &amp; ANCILLARY</b>						
<b>Camshaft</b>	1992-1993				<b>229-1849</b>	1
<b>Expansion Plug Kit</b>	1982-1993				<b>219-9613</b>	1
<b>Oil Pump</b>	1982-1993				<b>601-2016</b>	1
<b>Timing Chain Kit</b>	1982-1993				<b>9-3074</b>	1

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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<b>1</b> (cont.)	<b>379 CID (6.2L) 16V V8 3.976" (101.0mm) Chevrolet DIESEL</b> VIN Codes: 'C [LH6]' (1982-1993), 'J [LL4]' (1982-1993)					<b>1</b> (cont.)
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### VALVE TRAIN & ANCILLARY (CONT.)

<b>Valve Lifter, Intake and Exhaust</b>	1982-1993		Hydraulic Roller Lifters		<b>213-1725</b>	16
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### FILTERS


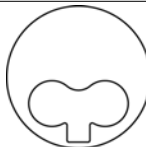
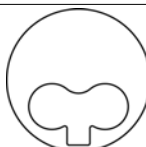
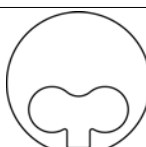
<b>Oil Filter</b>	1982-1993				<b>OC 114</b>	1
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<b>2</b>	<b>395 CID (6.5L) 16V V8 4.055" (103.0mm) Chevrolet DIESEL</b> VIN Codes: 'P [L49]' (1994-1995), 'Y [L57]' (1994-1999)					<b>2</b>
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### ENGINE KITS

<b>Master Rebuild Kit</b>	1997		Contents: 41718, 224-2897(8), CB-1286P(8), MS-2091P, SH-1366S, 601-2091, 219-9613, HS4021A, CS3678A, GS33193(2)		<b>MKI2026</b>	1
	1994-1996	Y	Contents: 41718, 224-2897(8), CB-1286P(8), MS-2091P, SH-1366S, 229-1849, 213-1725(16), 9-3097, 601-8027, 219-9613, GS33193(2), 95-3461VR, 4021(2), B45812(8)		<b>MK2025</b>	1
<b>Re-Ring Kit</b>	1994-1996	Y	Contents: 41718, CB-1286P(8), HS4021A, CS3678A, GS33193(2)		<b>RR2024</b>	1
<b>ReMain Kit</b>	1994-1997	Y	Contents: 41718, CB-1286P(8), MS-2091P, HS4021A, CS3678A, GS33193(2)		<b>RM2024</b>	1
	1994-1995	P	Contents: 41718, CB-1286P(8), MS-2091P, HS4021, CS3678A, GS33193(2)		<b>RM2027</b>	1

### CYLINDER BLOCK PARTS

<b>Piston</b>	1994-1999		Head Type: Ricardo Bowl Hard anodized head.		<i>Aluminum</i>	<b>224-2897</b> 224-2897.020 224-2897.030 224-2897.040	8
	1994-1999		Head Type: Ricardo Bowl Compression Height: Reduced .010" Hard anodized head		<i>Aluminum</i>	<b>224-3403</b> 224-3403.020 224-3403.030 224-3403.040	8
	1994-1999		Head Type: Ricardo Bowl Hard anodized crown. Coated skirts.		<i>Aluminum</i>	<b>224-3482HA</b> 224-3482HA.020 224-3482HA.030 224-3482HA.040	8
	1994-1999		Head Type: Ricardo Bowl Compression Height: Reduced .010" Hard anodized crown, Coated skirts		<i>Aluminum</i>	<b>224-3577HA</b> 224-3577HA.020 224-3577HA.030 224-3577HA.040	8
<b>Piston Ring Set</b>	1994-1999		<b>Comp Rings</b> 1 3.00mm 1 2.00mm	<b>Oil Ring</b> 1 4.00mm	<i>Plasma-Moly Ductile Iron</i>	<b>S41718</b> S41718.020 S41718.030 S41718.040 S41718.060	8

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
<b>2</b> (cont.)	<b>395 CID (6.5L) 16V V8 4.055" (103.0mm) Chevrolet DIESEL</b> VIN Codes: 'P [L49]' (1994-1995), 'Y [L57]' (1994-1999)					<b>2</b> (cont.)
<b>CYLINDER BLOCK PARTS (CONT.)</b>						
<b>Piston Ring Set (cont.)</b>	1994-1999		<b>Comp Rings</b> 8 3.00mm 8 2.00mm	<b>Oil Ring</b> 8 4.00mm	<i>Plasma-Moly Ductile Iron</i> <b>41718</b> 41718.020 41718.030 41718.040 41718.060	1
<b>ENGINE BEARINGS</b>						
<b>Rod Bearing</b>	1994-1999			<i>TM-77</i>	<b>CB-1286P</b> CB-1286P-.026mm CB-1286P-.25mm CB-1286P-.50mm CB-1286P-.75mm	8
<b>Main Bearing Set</b>	1994-1999			<i>TM-77</i>	<b>MS-2091P</b> MS-2091P-.026mm MS-2091P-.25mm MS-2091P-.50mm MS-2091P-.75mm	1
<b>Cam Bearing Set</b>	1994-1999			<i>B-1</i>	<b>SH-1366S</b>	1
<b>Piston Pin Bushing</b>	1994-1999		Requires Boring	<i>C-1</i>	<b>223-3576</b>	8
<b>ENGINE GASKETS</b>						
<b>Head Set</b>	1994-1999	Y	Exhaust Pipe Gasket not Included; without Cylinder Head Bolts; Positive Type Valve Stem Seals not Included; with High Output Engine		<b>HS4021A</b>	1
	1994-1995	P	without High Output Engine; Exhaust Pipe Gasket not Included; without Cylinder Head Bolts; Positive Type Valve Stem Seals not Included		<b>HS4021</b>	1
<b>Lower Set</b>	1994-1999		Use with Head Set to Make Full Set		<b>CS3678A</b>	1
<b>Engine Kit Gasket Set</b>	1994-1998		Head Gasket not Included; Positive Type Valve Stem Seals not Included; Requires Standard Thickness Head Gaskets or for Resurfaced Blocks .010" Thicker Head Gaskets.; Use with Part Number 4021, 4021T, B45812		<b>95-3461VR</b>	1
<b>Cyl. Head Gasket</b>	1994-1999		Contains .010" Thicker Head Gasket	<i>Composite</i>	<b>4021T</b>	2
	1994-1999		Standard Thickness	<i>Composite</i>	<b>4021</b>	2
<b>Cyl. Head Bolt Set</b>	1994-1999				<b>GS33193</b>	2
<b>Valve Cover Set</b>	1994-1999			<i>Cork-Rubber</i>	<b>VS38327</b>	1
<b>Valve Stem Oil Seal, Intake</b>	1994-1999		O-Ring Type	<i>Nitrile</i>	<b>B45229</b>	8
<b>Valve Stem Oil Seal, Exhaust</b>	1994-1999		O-Ring Type	<i>Nitrile</i>	<b>B45229</b>	8
	1994-1999		Positive Type		<b>B45812</b>	8
<b>Manifold Set, Exhaust</b>	1994-1999				<b>MS15336</b>	1
<b>Manifold Set, Intake</b>	1996-1999		Includes Plenum Gasket; with High Output Engine Except Fullsize Van		<b>MS15335A</b>	1
	1996		without High Output Engine; Includes Plenum Gasket		<b>MS15306A</b>	1
	1994-1995	P	without High Output Engine; Includes Plenum Gasket		<b>MS15306A</b>	1
	1994-1995	Y	Includes Plenum Gasket; with High Output Engine		<b>MS15335A</b>	1
<b>Plenum Chamber Gasket</b>	1996-1999		Except Fullsize Van		<b>MS16316</b>	1
	1994-1995				<b>MS16316</b>	1
<b>Oil Pan Gasket Set</b>	1994-1999			<i>Cork-Rubber</i>	<b>OS32134</b>	1
<b>Rear Main Seal Set</b>	1994-1999				<b>JV1617</b>	1
<b>Timing Cover Set</b>	1994-1999		Contains Repair Sleeve		<b>JV1134</b>	1

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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<b>2</b> (cont.)	<b>395 CID (6.5L) 16V V8 4.055" (103.0mm) Chevrolet DIESEL</b> VIN Codes: 'P [L49]' (1994-1995), 'Y [L57]' (1994-1999)					<b>2</b> (cont.)
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**ENGINE GASKETS (CONT.)**

<b>Timing Cover Set (cont.)</b>	1994-1999		Repair Sleeve not Included		<b>JV971</b>	1
<b>Timing Cover Seal</b>	1994-1999				<b>46467</b>	1
<b>Timing Cover Gasket</b>	1994-1999				<b>T31352</b>	1

**MISCELLANEOUS GASKETS**

<b>Air Cleaner Mounting Gasket</b>	1994-1999	Y	with Indirect Injection		<b>G27655</b>	1
<b>Catalytic Converter Gasket, Front</b>	1994-1999		with 4 Bolt Mounting; From Exhaust Pipe to Catalytic Converter; Flange Gasket		<b>F7566</b>	1
<b>Catalytic Converter Gasket</b>	1996		with 3 Bolt Mounting; From Exhaust Pipe to Catalytic Converter Express 2500.2500EXT/3500/3500EXT. Savanna 2500/3500/3500 EXT, Savanna 2500 EXT, G2500, G3500 <i>Nitroseal</i>		<b>F7538</b>	1
<b>Coolant Outlet Gasket</b>	1994-1999		with 2 Bolt Hole Housing		<b>C24125</b>	1
	1994-1999		Crossover		<b>C30677</b>	2
	1994-1999		with 3 Bolt Hole Housing		<b>C30811</b>	1
	1996-1999		with 4 Bolt Hole Housing		<b>C31427</b>	1
<b>EGR Valve Gasket</b>	1995-1996				<b>G31327</b>	1
<b>Exhaust Seal Ring</b>	1994-1999		Ring Type 'E'; Exhaust Pipe to Manifold; with Aluminum Intake Manifold		<b>F7507</b>	2
<b>Fuel Pump Gasket</b>	1994-1999		For Injection Pump		<b>B26454</b>	1
<b>Fuel Pump Gasket</b>	1994-1999		Plate To Block	<i>Paper</i>	<b>D25932</b>	1
	1994-1999		Plate To Block	<i>Tuff-Cork</i>	<b>D25932TC</b>	1
	1994-1999		Fuel Pump to Spacer	<i>Paper</i>	<b>D27094</b>	1
	1994-1999		Fuel Pump to Spacer	<i>Tuff-Cork</i>	<b>D27094TC</b>	1
<b>Oil Drain Plug Gasket</b>	1996-1999		with .42" I.D.; with Metric Thread		<b>B45828</b>	1
	1994-1996		with English Threads; with 1/2" I.D.		<b>2051</b>	1
<b>Thermostat Seal</b>	1994-1999			<i>Victo-Tech</i>	<b>C31273</b>	1
<b>Water Pump Gasket</b>	1994-1999		without Reverse Rotation; Water Pump Mounting Gasket		<b>K27395</b>	1
	1994-1999		with Reverse Rotation		<b>K31288</b>	1
	1994-1999		Plate To Timing Cover; Water Pump Mounting Gasket		<b>K31317</b>	1

**VALVE TRAIN & ANCILLARY**

<b>Exhaust Valve</b>	1994-1999		with Stellite Face		<b>211-4090</b>	8
<b>Intake Valve</b>	1994-1999				<b>211-2497</b>	8
<b>Camshaft</b>	1994-1999				<b>229-1849</b>	1
<b>Expansion Plug Kit</b>	1994-1997	Y			<b>219-9613</b>	1
<b>Oil Pump</b>	1997-1999				<b>601-2091</b>	1
	1994-1996	Y			<b>601-8027</b>	1
<b>Push Rod, Intake and Exhaust</b>	1994-1999				<b>215-4216</b>	16
<b>Timing Chain</b>	1994-1999				<b>9-181</b>	1
<b>Timing Chain Kit</b>	1994-1999				<b>9-3097</b>	1
<b>Valve Lifter, Intake and Exhaust</b>	1994-1999		Hydraulic Roller Lifters		<b>213-1725</b>	16
<b>Valve Rotator, Exhaust</b>	1994-1999				<b>216-2502</b>	8

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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<b>2</b> (cont.)	<b>395 CID (6.5L) 16V V8 4.055" (103.0mm) Chevrolet DIESEL</b> VIN Codes: 'P [L49]' (1994-1995), 'Y [L57]' (1994-1999)					<b>2</b> (cont.)
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### VALVE TRAIN & ANCILLARY (CONT.)

<b>Valve Seat, Exhaust</b>	1994-1999		Universal Type; High Nickel/Non-Magnetic		<b>218-4506</b>	8
<b>Valve Spring, Intake and Exhaust</b>	1994-1999				<b>212-1310</b>	16
<b>Valve Spring Retainer Keeper, Intake and Exhaust</b>	1994-1999				<b>216-5117A</b>	32
	1994-1999		Hardened Steel		<b>216-5118A</b>	32

### FILTERS



<b>Oil Filter</b>	1994-1999				<b>OC 114</b>	1
<b>Air Filter</b>	1994-1996				<b>LX 2921</b>	1

<b>3</b>	<b>395 CID (6.5L) 16V Turbo V8 4.055" (103.0mm) Chevrolet DIESEL</b> VIN Codes: 'F [L65]' (1992-2002), 'S [L56]' (1994-1999)					<b>3</b>
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### ENGINE KITS

<b>Master Rebuild Kit</b>	1998	S	Contents: 41718, 224-2897(8), CB-1286P(8), MS-2091P, SH-1366S, 4021(2), 95-3461VR, GS33193(2), 229-1849, 213-1725(16), 9-3097, 601-2091, 219-9613		<b>MK3048</b>	1
	1997		Contents: 41718, 224-2897(8), CB-1286P(8), MS-2091P, SH-1366S, 601-2091, 219-9613, HS4021A, CS3678A, GS33193(2)		<b>MKI2026</b>	1
	1997	S	Contents: 41718, 224-2897(8), CB-1286P(8), MS-2091P, SH-1366S, 601-2091, 219-9613, HS4021, CS3678A, GS33193(2)		<b>MKI2028</b>	1
	1995-1996		Contents: 41718, 224-2897(8), CB-1286P(8), MS-2091P, SH-1366S, 229-1849, 213-1725(16), 9-3097, 601-8027, 219-9613, GS33193(2), 95-3461VR, 4021(2), B45812(8)		<b>MK2025</b>	1
	1994	F	Contents: 41718, 224-2897(8), CB-1286P(8), MS-2091P, SH-1366S, 229-1849, 213-1725(16), 9-3097, 601-8027, 219-9613, GS33193(2), 95-3461VR, 4021(2), B45812(8)		<b>MK2025</b>	1
	1992-1993		Contents: 41718, 224-2897(8), CB-1286P(8), MS-2091P, SH-1366S, 229-1849, 213-1725(16), 9-3074, 601-8027, 219-9613, GS33193(2), 95-3461VR, 4021(2), B45812(8)		<b>MK2024</b>	1
<b>Re-Ring Kit</b>	1992-1998		Contents: 41718, CB-1286P(8), 4021(2), 95-3461VR, GS33193(2)		<b>RR3073</b>	1
<b>ReMain Kit</b>	1992-1998		Contents: 41718, CB-1286P(8), MS-2091P, 4021(2), 95-3461VR, GS33193(2)		<b>RM3075</b>	1


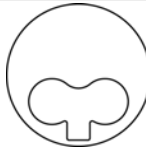
### CYLINDER BLOCK PARTS

<b>Piston</b>	1992-2002		Head Type: Ricardo Bowl Hard anodized head.		Aluminum	<b>224-2897</b> 224-2897.020 224-2897.030 224-2897.040	8
	1992-2002		Head Type: Ricardo Bowl Compression Height: Reduced .010" Hard anodized head		Aluminum	<b>224-3403</b> 224-3403.020 224-3403.030 224-3403.040	8

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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<b>3</b> (cont.)	<b>395 CID (6.5L) 16V Turbo V8 4.055" (103.0mm) Chevrolet DIESEL</b> VIN Codes: 'F [L65]' (1992-2002), 'S [L56]' (1994-1999)					<b>3</b> (cont.)
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**CYLINDER BLOCK PARTS (CONT.)**

<b>Piston (cont.)</b>	1992-2002		Head Type: Ricardo Bowl Hard anodized crown. Coated skirts.		Aluminum	<b>224-3482HA</b> 224-3482HA.020 224-3482HA.030 224-3482HA.040	8
	1992-2002		Head Type: Ricardo Bowl Compression Height: Reduced .010" Hard anodized crown, Coated skirts		Aluminum	<b>224-3577HA</b> 224-3577HA.020 224-3577HA.030 224-3577HA.040	8
<b>Piston Ring Set</b>	1992-2002		<b>Comp Rings</b> 1 3.00mm 1 2.00mm	<b>Oil Ring</b> 1 4.00mm	Plasma-Moly Ductile Iron	<b>S41718</b> S41718.020 S41718.030 S41718.040 S41718.060	8
	1992-2002		<b>Comp Rings</b> 8 3.00mm 8 2.00mm	<b>Oil Ring</b> 8 4.00mm	Plasma-Moly Ductile Iron	<b>41718</b> 41718.020 41718.030 41718.040 41718.060	1

**ENGINE BEARINGS**

<b>Rod Bearing</b>	1992-2002				TM-77	<b>CB-1286P</b> CB-1286P-.026mm CB-1286P-.25mm CB-1286P-.50mm CB-1286P-.75mm	8
<b>Main Bearing Set</b>	1992-2002				TM-77	<b>MS-2091P</b> MS-2091P-.026mm MS-2091P-.25mm MS-2091P-.50mm MS-2091P-.75mm	1
<b>Cam Bearing Set</b>	1992-2002				B-1	<b>SH-1366S</b>	1
<b>Piston Pin Bushing</b>	1992-2002		Requires Boring		C-1	<b>223-3576</b>	8

**ENGINE GASKETS**

<b>Head Set</b>	1994-1999	S	without High Output Engine; Exhaust Pipe Gasket not Included; without Cylinder Head Bolts; Positive Type Valve Stem Seals not Included			<b>HS4021</b>	1
	1992-1998		Exhaust Pipe Gasket not Included; without Cylinder Head Bolts; Positive Type Valve Stem Seals not Included; with High Output Engine			<b>HS4021A</b>	1
<b>Lower Set</b>	1992-2002		Use with Head Set to Make Full Set			<b>CS3678A</b>	1
<b>Engine Kit Gasket Set</b>	1992-1998		Head Gasket not Included; Positive Type Valve Stem Seals not Included; Requires Standard Thickness Head Gaskets or for Resurfaced Blocks .010" Thicker Head Gaskets.; Use with Part Number 4021, 4021T, B45812			<b>95-3461VR</b>	1
<b>Cyl. Head Gasket</b>	1992-2002		Contains .010" Thicker Head Gasket	Composite		<b>4021T</b>	2
	1992-2002		Standard Thickness	Composite		<b>4021</b>	2
<b>Cyl. Head Bolt Set</b>	1992-2002					<b>GS33193</b>	2
<b>Valve Cover Set</b>	1992-2002			Cork-Rubber		<b>VS38327</b>	1

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
<b>3</b> (cont.)	<b>395 CID (6.5L) 16V Turbo V8 4.055" (103.0mm) Chevrolet DIESEL</b> VIN Codes: 'F [L65]' (1992-2002), 'S [L56]' (1994-1999)					<b>3</b> (cont.)
<b>ENGINE GASKETS (CONT.)</b>						
<b>Valve Stem Oil Seal, Intake</b>	1992-2002		O-Ring Type	Nitrile	<b>B45229</b>	8
<b>Valve Stem Oil Seal, Exhaust</b>	1992-2002		O-Ring Type	Nitrile	<b>B45229</b>	8
	1992-2002		Positive Type		<b>B45812</b>	8
<b>Manifold Set, Exhaust</b>	1992-2002				<b>MS15336</b>	1
<b>Manifold Set, Intake</b>	1996-2002		without High Output Engine; Includes Plenum Gasket		<b>MS15306A</b>	1
	1996-2002		Includes Plenum Gasket; with High Output Engine Except Fullsize Van		<b>MS15335A</b>	1
	1994-1995	S	without High Output Engine; Includes Plenum Gasket		<b>MS15306A</b>	1
	1995		Includes Plenum Gasket; with High Output Engine		<b>MS15335A</b>	1
	1992-1994	F	Includes Plenum Gasket; with High Output Engine		<b>MS15335A</b>	1
<b>Plenum Chamber Gasket</b>	1996-2002		Except Fullsize Van		<b>MS16316</b>	1
	1992-1995				<b>MS16316</b>	1
<b>Oil Pan Gasket Set</b>	1992-2002			Cork-Rubber	<b>OS32134</b>	1
<b>Rear Main Seal Set</b>	1994-2002				<b>JV1617</b>	1
	1992-1993		1 Piece		<b>JV1617</b>	1
<b>Timing Cover Set</b>	1992-2002		Contains Repair Sleeve		<b>JV1134</b>	1
	1992-2002		Repair Sleeve not Included		<b>JV971</b>	1
<b>Timing Cover Seal</b>	1992-2002				<b>46467</b>	1
<b>Timing Cover Gasket</b>	1992-2002				<b>T31352</b>	1
<b>MISCELLANEOUS GASKETS</b>						
<b>Air Cleaner Mounting Gasket</b>	1992-1999		with Indirect Injection		<b>G27655</b>	1
<b>Catalytic Converter Gasket</b>	2002		with 3 Bolt Mounting; From Exhaust Pipe to Catalytic Converter Express 2500.2500EXT/3500/3500EXT. Savanna 2500/3500/3500 EXT	Nitroseal	<b>F7538</b>	1
	2000-2001		with 3 Bolt Mounting; From Exhaust Pipe to Catalytic Converter Express 2500.2500EXT/3500/3500EXT. Savanna 2500/3500/3500 EXT, Savanna 2500 EXT	Nitroseal	<b>F7538</b>	1
	1996-1999	F	with 3 Bolt Mounting; From Exhaust Pipe to Catalytic Converter Express 2500.2500EXT/3500/3500EXT. Savanna 2500/3500/3500 EXT, Savanna 2500 EXT, G2500, G3500	Nitroseal	<b>F7538</b>	1
<b>Catalytic Converter Gasket, Front</b>	1994-2002		with 4 Bolt Mounting; From Exhaust Pipe to Catalytic Converter; Flange Gasket		<b>F7566</b>	1
<b>Coolant Outlet Gasket</b>	1992-2002		Crossover		<b>C30677</b>	2
	1992-1999		with 2 Bolt Hole Housing		<b>C24125</b>	1
	1992-1999		with 3 Bolt Hole Housing		<b>C30811</b>	1
	1996-1999		with 4 Bolt Hole Housing		<b>C31427</b>	1
<b>EGR Valve Gasket</b>	1999	S			<b>G31327</b>	1
	1996-1998		Except Fullsize Van		<b>G31327</b>	1
	1995				<b>G31327</b>	1
	1992-1994	F			<b>G31327</b>	1
<b>Exhaust Seal Ring</b>	1992-1999		Ring Type 'E'; Exhaust Pipe to Manifold; with Aluminum Intake Manifold		<b>F7507</b>	2

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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<b>3</b> (cont.)	<b>395 CID (6.5L) 16V Turbo V8 4.055" (103.0mm) Chevrolet DIESEL</b> VIN Codes: 'F [L65]' (1992-2002), 'S [L56]' (1994-1999)					<b>3</b> (cont.)
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**MISCELLANEOUS GASKETS (CONT.)**

<b>Fuel Pump Gasket</b>	1992-2000		Fuel Pump to Spacer	Paper	<b>D27094</b>	1
	1992-1999		Plate To Block	Paper	<b>D25932</b>	1
	1992-1999		Plate To Block	Tuff-Cork	<b>D25932TC</b>	1
	1992-1999		Fuel Pump to Spacer	Tuff-Cork	<b>D27094TC</b>	1
<b>Fuel Pump Gasket</b>	1992-2002		For Injection Pump		<b>B26454</b>	1
<b>Oil Drain Plug Gasket</b>	1996-2002		with .42" I.D.; with Metric Thread		<b>B45828</b>	1
	1992-1995		with English Threads; with 1/2" I.D.		<b>2051</b>	1
<b>Thermostat Seal</b>	1992-1999			Victo-Tech	<b>C31273</b>	1
<b>Water Pump Gasket</b>	1992-2002		with Reverse Rotation		<b>K31288</b>	1
	1992-2002		Plate To Timing Cover; Water Pump Mounting Gasket		<b>K31317</b>	1

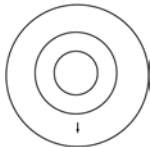
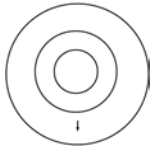
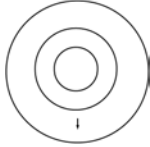
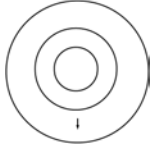
**VALVE TRAIN & ANCILLARY**

<b>Exhaust Valve</b>	1992-2002		with Stellite Face		<b>211-4090</b>	8
<b>Intake Valve</b>	1992-2002				<b>211-2497</b>	8
<b>Camshaft</b>	1992-2002				<b>229-1849</b>	1
<b>Expansion Plug Kit</b>	1995-1997				<b>219-9613</b>	1
	1994	F			<b>219-9613</b>	1
<b>Oil Pump</b>	1997-2002				<b>601-2091</b>	1
	1996	F			<b>601-8027</b>	1
	1992-1995				<b>601-8027</b>	1
<b>Push Rod, Intake and Exhaust</b>	1992-2002				<b>215-4216</b>	16
<b>Timing Chain</b>	1992-2002				<b>9-181</b>	1
<b>Timing Chain Kit</b>	1994-2002				<b>9-3097</b>	1
	1992-1993				<b>9-3074</b>	1
<b>Valve Lifter, Intake and Exhaust</b>	1992-2002		Hydraulic Roller Lifters		<b>213-1725</b>	16
<b>Valve Rotator, Exhaust</b>	1992-2002				<b>216-2502</b>	8
<b>Valve Seat, Exhaust</b>	1992-2002		Universal Type; High Nickel/Non-Magnetic		<b>218-4506</b>	8
<b>Valve Spring, Intake and Exhaust</b>	1992-2002				<b>212-1310</b>	16
<b>Valve Spring Retainer Keeper, Intake and Exhaust</b>	1992-2002				<b>216-5117A</b>	32
	1992-2002		Hardened Steel		<b>216-5118A</b>	32

**TURBOCHARGERS**

<b>Turbocharger</b>	1996-2002	F	GM-6, Express, Savannah		<b>599TC21002000</b>	1
	1996-2002	F	Remanufactured GM-6, Express, Savannah (To Be Replaced By 599TC21002000)		<b>599TC21002100</b>	1
	1997-2000		GM-8		<b>599TC21102000</b>	1
	1995-1996		GM-5		<b>599TC21101000</b>	1
	1994-1995		GM-4		<b>599TC24521000</b>	1
	1992		To 12-1992		<b>599TC24522000</b>	1
<b>Turbocharger Service Kit</b>	1992-2002				<b>599TS24521100</b>	1



PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY	
<b>3</b> (cont.)	<b>395 CID (6.5L) 16V Turbo V8 4.055" (103.0mm) Chevrolet DIESEL</b> VIN Codes: 'F [L65]' (1992-2002), 'S [L56]' (1994-1999)					<b>3</b> (cont.)	
<b>FILTERS</b>							
<b>Oil Filter</b>	1992-2002				<b>OC 114</b>	1	
<b>Air Filter</b>	1998-2002	F			<b>LX 2921</b>	1	
	1997-2000				<b>LX 2934</b>	1	
	1997-2000				<b>LX 2941</b>	1	
<b>4</b>	<b>403 CID (6.6L) 32V Turbo V8 4.055" (103.0mm) Duramax DIESEL</b> VIN Codes: '1 [LB7]' (2001-2004), '2 [LLY]' (2004-2007), '6 [LMM]' (2007-2010) '8 [LML]' (2011-2012), '9 [LMM]' (2007-2009), 'D [LBZ]' (2006-2007), 'L [LGH]' (2010-2012)					<b>4</b>	
<b>CYLINDER BLOCK PARTS</b>							
<b>Piston</b>	2006-2010	2,6 D	Head Type: Flat w/ Combustion Chamber  Right Bank		Aluminum	<b>224-3708</b> 224-3708.020 224-3708.040	4
	2006-2010	2,6 D	Head Type: Flat w/ Combustion Chamber  Left Bank		Aluminum	<b>224-3709</b> 224-3709.020 224-3709.040	4
	2001-2005		Head Type: Flat w/ Combustion Chamber  Left Bank		Aluminum	<b>224-3451</b> 224-3451.020 224-3451.040	4
	2001-2005		Head Type: Flat w/ Combustion Chamber  Right Bank		Aluminum	<b>224-3452</b> 224-3452.020 224-3452.040	4
<b>Piston Ring Set</b>	2010-2012	8,L	<b>Comp Rings</b> 1 3.00mm 1 2.00mm	<b>Oil Ring</b> 1 3.00mm	Gas Nitride Stainless Steel	<b>S42160</b> S42160.010 S42160.020 S42160.030 S42160.040	8
	2010-2012	8,L	<b>Comp Rings</b> 8 3.00mm 8 2.00mm	<b>Oil Ring</b> 8 3.00mm	Gas Nitride Stainless Steel	<b>42160</b> 42160.010 42160.020 42160.030 42160.040	1

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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<b>4</b> (cont.)	<b>403 CID (6.6L) 32V Turbo V8 4.055" (103.0mm) Duramax DIESEL</b> VIN Codes: '1 [LB7]' (2001-2004), '2 [LLY]' (2004-2007), '6 [LMM]' (2007-2010) '8 [LML]' (2011-2012), '9 [LMM]' (2007-2009), 'D [LBZ]' (2006-2007), 'L [LGH]' (2010-2012)					<b>4</b> (cont.)
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**CYLINDER BLOCK PARTS (CONT.)**

<b>Piston Ring Set (cont.)</b>	2001-2010	1,2 6,9 D	<b>Comp Rings</b> 1 3.00mm 1 2.00mm	<b>Oil Ring</b> 1 3.00mm	<i>Plasma-Moly Ductile Iron</i>	<b>S41909</b> S41909.010 S41909.020 S41909.030 S41909.040 S41909.060	8
	2001-2010	1,2 6,9 D	<b>Comp Rings</b> 8 3.00mm 8 2.00mm	<b>Oil Ring</b> 8 3.00mm	<i>Plasma-Moly Ductile Iron</i>	<b>41909</b> 41909.010 41909.020 41909.030 41909.040 41909.060	1

**ENGINE BEARINGS**

<b>Rod Bearing</b>	2001-2011		H-Series Performance No Dowel Hole In Cap Half Undersize Bearings can be used but the Crankshaft must be Rehardened with a Nitride Heat Treatment <i>TM-77</i>		<b>CB-1805H</b> CB-1805H-.026mm CB-1805H-.25mm	8
	2001-2011		H-Series Performance Bearing Wall .0005" Thinner For .0010" More Oil Clearance No Dowel Hole In Cap Half Undersize Bearings can be used but the Crankshaft must be Rehardened with a Nitride Heat Treatment <i>TM-77</i>		<b>CB-1805HX</b>	8
	2001-2011		Undersize Bearings can be used but the Crankshaft must be Rehardened with a Nitride Heat Treatment <i>TM-77</i>		<b>CB-1805P</b> CB-1805P-.25mm CB-1805P-.50mm	8
	2001-2011		Connecting Rods With Housing Bore Resized .002" Larger Than Stock Undersize Bearings can be used but the Crankshaft must be Rehardened with a Nitride Heat Treatment <i>TM-77</i>		<b>CB-1810P-.25mm</b> CB-1810P-.50mm	8
<b>Main Bearing Set</b>	2001-2011		H-Series Performance Grooved Upper Half And Plain Lower Half Undersize Bearings Can Be Used But The Crankshaft Must Be Rehardened With A Nitride Heat Treatment <i>TM-77</i>		<b>MS-2218H</b> MS-2218H-.026mm MS-2218H-.25mm	1
	2001-2011		H-Series Performance Bearing Wall .0005" Thinner For .0010" More Oil Clearance Grooved Upper Half And Plain Lower Half Undersize Bearings Can Be Used But The Crankshaft Must Be Rehardened With A Nitride Heat Treatment <i>TM-77</i>		<b>MS-2218HX</b>	1
	2001-2011		Undersize Bearings Can Be Used But The Crankshaft Must Be Rehardened With A Nitride Heat Treatment Requires Thrust Washer Set, Not Included Use with Part Number TW-610S <i>TM-77</i>		<b>MS-2218P</b> MS-2218P-.25mm MS-2218P-.50mm	1
<b>Thrust Washer Set</b>	2001-2011		Contains 3 Pieces, Position Number 1 And 5 Use with Part Number MS-2218P		<b>TW-610S</b>	1
			Contains 3 Pieces, Position Number 1 And 5 Use with Part Number MS-2218H			
<b>Cam Bearing Set</b>	2001-2011			<i>B-1</i>	<b>SH-1999S</b>	1
<b>Piston Pin Bushing</b>	2001-2011		Requires Boring, Semi-Finished		<i>C-1</i> <b>223-3659</b>	8

**ENGINE GASKETS**

<b>Head Set</b>	2007-2009	6	Contains RTV; Cylinder Head Gasket Not Included, Replacement Gasket Must Be of Same Thickness as One Removed; without Cylinder Head Bolts		<b>HS54580B</b>	1
	2004-2007	2,D	Head Gasket not Included; without Cylinder Head Bolts		<b>HS54580A</b>	1
	2001-2004	1	Head Gasket not Included; without Cylinder Head Bolts		<b>HS54580</b>	1

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
<b>4</b> (cont.)	<b>403 CID (6.6L) 32V Turbo V8 4.055" (103.0mm) Duramax DIESEL</b> VIN Codes: '1 [LB7]' (2001-2004), '2 [LLY]' (2004-2007), '6 [LMM]' (2007-2010) '8 [LML]' (2011-2012), '9 [LMM]' (2007-2009), 'D [LBZ]' (2006-2007), 'L [LGH]' (2010-2012)					<b>4</b> (cont.)
<b>ENGINE GASKETS (CONT.)</b>						
<b>Lower Set</b>	2007-2009	6	Contains RTV for Lower Pan Gasket; Contains RTV for Upper Pan Gasket; Use with Head Set to Make Full Set		<b>CS54580A</b>	1
	2001-2007	1,2 6,D	Use with Head Set to Make Full Set		<b>CS54580</b>	1
<b>Engine Kit Gasket Set</b>	2007-2009	6	Head Gasket not Included		<b>95-3734VR</b>	1
	2004-2007	2,D	Head Gasket not Included		<b>95-3727VR</b>	1
	2001-2004	1	Head Gasket not Included		<b>95-3726VR</b>	1
<b>Cyl. Head Gasket, Left</b>	2001-2011	1,2 6,8 D,L	.95MM or Grade A Thickness  <i>Multi-Layered Steel</i>		<b>54583</b>	1
	2001-2011	1,2 6,8 D,L	1.00MM or Grade B Thickness  <i>Multi-Layered Steel</i>		<b>54584</b>	1
	2001-2011	1,2 6,8 D,L	1.05MM or Grade C Thickness  <i>Multi-Layered Steel</i>		<b>54585</b>	1
	2001-2011	1,2 6,8 D,L	1.05MM or Grade C Thickness; 106MM Bore Diameter  <i>Wave-Stopper Technology</i>		<b>54597</b>	1
<b>Cyl. Head Gasket, Right</b>	2001-2011	1,2 6,8 D,L	.95MM or Grade A Thickness  <i>Multi-Layered Steel</i>		<b>54580</b>	1
	2001-2011	1,2 6,8 D,L	1.00MM or Grade B Thickness  <i>Multi-Layered Steel</i>		<b>54581</b>	1
	2001-2011	1,2 6,8 D,L	1.05MM or Grade C Thickness  <i>Multi-Layered Steel</i>		<b>54582</b>	1
	2001-2009	1,2 6,D	1.05MM or Grade C Thickness; 106MM Bore Diameter  <i>Wave-Stopper Technology</i>		<b>54598</b>	1
<b>Cyl. Head Bolt Set</b>	2001-2011	1,2 6,8 D,L			<b>GS33504</b>	2
<b>Valve Cover Set</b>	2004-2011	2,6 8,D L	Rocker Arm Cover  <i>Steel</i>		<b>VS50434</b>	1
	2004-2010	2,6 D	Valve Cover Grommets Included		<b>VS50439</b>	1
	2007-2009	6	Master Set - Contains all gaskets and seals required for the installation of fuel injectors		<b>VS50551</b>	1
	2004-2007	2,D	Master Set - Contains all gaskets and seals required for the installation of fuel injectors		<b>VS50550</b>	1
	2001-2004	1	Valve Cover Grommets Included		<b>VS50438</b>	1
	2001-2004	1	Master Set - Contains all gaskets and seals required for the installation of fuel injectors		<b>VS50549</b>	1
<b>Valve Stem Oil Seal, Exhaust</b>	2001-2010	1,2 6,D			<b>B45974</b>	16
<b>Valve Stem Oil Seal, Intake</b>	2001-2010	1,2 6,D			<b>B45974</b>	16
<b>Manifold Set, Exhaust</b>	2001-2011	1,2 6,8 D,L		<i>Multi-Layered Steel</i>	<b>MS19398</b>	1

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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<b>4</b> (cont.)	<b>403 CID (6.6L) 32V Turbo V8 4.055" (103.0mm) Duramax DIESEL</b> VIN Codes: '1 [LB7]' (2001-2004), '2 [LLY]' (2004-2007), '6 [LMM]' (2007-2010) '8 [LML]' (2011-2012), '9 [LMM]' (2007-2009), 'D [LBZ]' (2006-2007), 'L [LGH]' (2010-2012)					<b>4</b> (cont.)
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**ENGINE GASKETS (CONT.)**

<b>Manifold Set, Intake</b>	2007-2010	6	Contains Intake to Exhaust Manifold Gasket; Contains RTV		<b>MIS19689</b>	1
	2007-2010	6	Contains RTV		<b>MS19689</b>	1
	2006-2007	2,6 D	Master Set - Contains Intake Manifold Gaskets Plus All Miscellaneous Gaskets and Seals Needed for Intake Installation.; Exhaust Gasket not Included; Turbocharger Gasket not Included		<b>MIS19403</b>	1
	2006-2007	2,D	Includes Plenum Gasket; RTV Silicone Sealant		<b>MS19403</b>	1
	2004-2005		Master Set - Contains Intake Manifold Gaskets Plus All Miscellaneous Gaskets and Seals Needed for Intake Installation.; Contains Metal Carrier Intake Manifold Gasket; Exhaust Gasket not Included; Turbocharger Gasket not Included Silverado, Sierra		<b>MIS19402</b>	1
	2004-2005		Includes Plenum Gasket Silverado, Sierra		<b>MS19402</b>	1
	2001-2003		Master Set - Contains Intake Manifold Gaskets Plus All Miscellaneous Gaskets and Seals Needed for Intake Installation.; Contains Metal Carrier Intake Manifold Gasket; Exhaust Gasket not Included; Turbocharger Gasket not Included		<b>MIS19402</b>	1
	2001-2003		Includes Plenum Gasket		<b>MS19402</b>	1
<b>Plenum Chamber Gasket</b>	2007-2010	6		<i>Beaded Steel</i>	<b>G31908</b>	1
	2007	D	Silverado, Sierra	<i>Beaded Steel</i>	<b>G31908</b>	1
	2006		Silverado, Sierra	<i>Beaded Steel</i>	<b>G31908</b>	1
	2004-2005	2	Silverado, Sierra	<i>Steel</i>	<b>G31915</b>	1
	2001-2004	1		<i>Steel</i>	<b>G31916</b>	1
<b>Oil Pan Gasket</b>	2007-2009	6	RTV Silicone Sealant; Original Equipment Uses RTV	<i>Silicone</i>	<b>JV8</b>	1
<b>Oil Pan Gasket, Upper</b>	2001-2009	1,2 6,D	RTV Silicone Sealant	<i>Silicone</i>	<b>JV8</b>	1
<b>Oil Pan Gasket Set</b>	2001-2010	1,2 6,D	Contains RTV for Upper Pan Gasket; Lower Oil Pan Gasket; 17 Bolt Oil Pan Gasket Included		<b>OS32284</b>	1
	2003-2005		18 Bolt Oil Pan Gasket Included		<b>OS32364</b>	1
<b>Crankshaft Seal, Rear</b>	2001-2011	1,2 6,8 D,L		<i>Teflon</i>	<b>67777</b>	1
<b>Rear Main Seal Set, Rear</b>	2001-2007	1,2 6,D	Contains RTV		<b>JV1691</b>	1
<b>Timing Cover Set</b>	2001-2011	1,2 6,8 D,L	Contains RTV; Gaskets-Pressure Relief Valve		<b>JV5079</b>	1
<b>Timing Cover Seal, Front</b>	2001-2011	1,2 6,8 D,L		<i>Teflon</i>	<b>67775</b>	1

**MISCELLANEOUS GASKETS**

<b>Catalytic Converter Gasket</b>	2006-2007	D	with 3 Bolt Mounting Sierra 2500 HD, 3500	<i>Nitroseal</i>	<b>F7538</b>	1
	2006-2007	2	with 3 Bolt Mounting Express 2500, 3500	<i>Nitroseal</i>	<b>F7538</b>	1
<b>Coolant Outlet Gasket</b>	2007-2011	6,8 D,L		<i>Steel</i>	<b>C31900</b>	2

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
<b>4</b> (cont.)	<b>403 CID (6.6L) 32V Turbo V8 4.055" (103.0mm) Duramax DIESEL</b> VIN Codes: '1 [LB7]' (2001-2004), '2 [LLY]' (2004-2007), '6 [LMM]' (2007-2010) '8 [LML]' (2011-2012), '9 [LMM]' (2007-2009), 'D [LBZ]' (2006-2007), 'L [LGH]' (2010-2012)					<b>4</b> (cont.)
<b>MISCELLANEOUS GASKETS (CONT.)</b>						
<b>Coolant Outlet Gasket</b> (cont.)	2007	2	Savanna	Steel	<b>C31900</b>	2
	2001-2006			Steel	<b>C31900</b>	2
<b>Coolant Pipe O-Ring</b>	2009-2011	6,8 L	Oil Cooler		<b>72224</b>	1
<b>EGR Valve Gasket, Lower</b>	2002-2004		Silverado, Sierra	Steel	<b>F31901</b>	1
<b>EGR Valve Gasket</b>	2006-2010	2,6 D	Inline Bolt Holes; Exhaust Manifold to EGR Inlet Pipe	Multi-Layered Steel	<b>F31910</b>	1
	2006-2010	2,6 D	Offset Bolt Holes	Steel	<b>F31912</b>	1
	2007-2010	6	To Cooler		<b>F32393</b>	1
	2007-2010	6		Multi-Layered Steel	<b>F39394</b>	1
	2004-2008	1,2 6,D	To Cooler	Steel	<b>F31909</b>	1
	2004-2005		To Cooler; EGR Valve To Intake Manifold; with Offset Bolt Pattern	Steel	<b>F31911</b>	1
	2004-2005		EGR Valve To Intake Manifold; To Cooler; with Straight Bolt Pattern	Steel	<b>F31913</b>	1
	2001-2004		Back Silverado, Sierra	Steel	<b>F31902</b>	1
<b>Exhaust Pipe Connector Gasket</b>	2001-2011	1,2 6,8 D,L		Beaded Steel	<b>F31903</b>	2
<b>Exhaust Pipe Flange Gasket</b>	2008-2011	6,8 L		Nitroseal	<b>F31897</b>	1
	2007	6	Silverado, Sierra	Nitroseal	<b>F31897</b>	1
	2002-2006		Exhaust Pipe to Turbo	Steel	<b>F32423</b>	1
	2001-2005			Nitroseal	<b>F31897</b>	1
<b>Fuel Injection Plenum Seal</b>	2007-2011	6,L	Upper		<b>G31917</b>	1
	2006-2010	2,6 D	O-Ring Type		<b>G31914</b>	2
	2006-2007	2	Upper Express, Savanna		<b>G31917</b>	1
	2004-2005	2	Silverado, Sierra		<b>G31918</b>	1
<b>Fuel Injector Seal Kit</b>	2007-2009	6			<b>GS33578</b>	8
	2004-2007	2,D			<b>GS33505</b>	8
	2001-2004	1	with Washers		<b>GS33500</b>	8
<b>Oil Dipstick Tube Seal</b>	2010-2011				<b>72010</b>	1
<b>Thermostat Housing Gasket</b>	2008-2011	6,8 L,2		Silicone	<b>C31889</b>	2
	2001-2007			Silicone	<b>C31889</b>	2
<b>Throttle Body Gasket</b>	2008-2011	6,L		Steel	<b>G31906</b>	1
	2008-2010	6		Beaded Steel	<b>G31905</b>	1
	2007	6	Silverado, Sierra	Beaded Steel	<b>G31905</b>	1
	2006-2007	2,6	Throttle Body Heater Inlet Express, Savanna	Steel	<b>G31906</b>	1
	2007	D	Throttle Body Heater Inlet Silverado, Sierra	Steel	<b>G31907</b>	1
	2006		Throttle Body Heater Inlet Silverado, Sierra	Steel	<b>G31907</b>	1

PART	YEAR	VIN / ENG CODE	NOTES	MATERIAL	PART NUMBER	PER ENG QTY
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<b>4</b> (cont.)	<b>403 CID (6.6L) 32V Turbo V8 4.055" (103.0mm) Duramax DIESEL</b> VIN Codes: '1 [LB7]' (2001-2004), '2 [LLY]' (2004-2007), '6 [LMM]' (2007-2010) '8 [LML]' (2011-2012), '9 [LMM]' (2007-2009), 'D [LBZ]' (2006-2007), 'L [LGH]' (2010-2012)					<b>4</b> (cont.)
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### MISCELLANEOUS GASKETS (CONT.)

<b>Water Pump Gasket</b>	2007-2011	6,8 D,L	Mounting; O-Ring Type		<b>K31904</b>	1
	2001-2006		Mounting; O-Ring Type		<b>K31904</b>	1
	2001-2005			<i>Steel</i>	<b>C32062</b>	1

### VALVE TRAIN & ANCILLARY

<b>Exhaust Valve</b>	2001-2004				<b>211-4265</b> 211-4265.015	16
<b>Intake Valve</b>	2001-2004				<b>211-4264</b> 211-4264.015	16
<b>Push Rod, Intake and Exhaust</b>	2001-2005				<b>215-4350</b>	32

### TURBOCHARGERS

<b>Turbocharger</b>	2007-2010	6,9			<b>599TC21007000</b>	1
	2007-2010	6,9	Remanufactured		<b>599TC21007100</b>	1
	2006-2007	D	Remanufactured		<b>599TC21006100</b>	1
	2004-2005	2	Remanufactured		<b>599TC21103100</b>	1
	2001-2004		Remanufactured; with California Emissions		<b>599TC21004100</b>	1
	2001-2004	1	Remanufactured; without California Emissions		<b>599TC21005100</b>	1
<b>Turbocharger Inlet Gasket</b>	2001-2004	1			<b>B32478</b>	1
<b>Turbocharger Service Kit</b>	2004-2010	2,6 9,D			<b>599TS21103100</b>	1

### FILTERS

<b>Air Filter</b>	2011				<b>LX 3211</b>	1
	2001-2006	1,2	Without High Capacity Filter		<b>LX 2562</b>	1
<b>Fuel Filter</b>	2001-2003				<b>KL 676</b>	1
<b>Cabin Air Filter</b>	2001-2002				<b>LA 716S</b>	1

# NUMERICAL SPECIFICATIONS - PISTON RINGS

SET NO.	CYL. DIA.	RING WIDTH	FACING	MATERIAL	DESCRIPTION / TYPE	CM / OIL	RADIAL WALL	QTY
41296	3.976" 101.0mm	3.00mm 2.00mm 4.00mm	Chrome	Ductile Iron	RFK-18U	Cm	.186"	8
			Chrome	Cast Iron	RBT-10UF	Cm	.170"	8
			Chrome	Cast Iron	MCL-40URW	Oil	.180"	8
41548	4.110" 104.4mm	0.1181" 0.0783" 0.136"	Plasma-Moly	Ductile Iron	RF-18PF	Cm	.172"	8
				Cast Iron	RBT-10	Cm	.172"	8
			Chrome	Cast Iron	GCL-40URW	Oil	.195"	8
41549	3.976" 101.0mm	3.00mm 2.00mm 4.00mm	Plasma-Moly	Ductile Iron	RFK-18PF	Cm	.185"	8
			Chrome	Cast Iron	RBT-10UF	Cm	.170"	8
			Chrome	Cast Iron	MCL-40URW	Oil	.180"	8
41718	4.055" 103.0mm	3.00mm 2.00mm 4.00mm	Plasma-Moly	Ductile Iron	RFK-18PF	Cm	.186"	8
				Ductile Iron	BT-18	Cm	.170"	8
			Chrome	Cast Iron	MCL-40URW	Oil	.180"	8
41768	4.110" 104.4mm	0.1181" 0.0783" 0.136"	Plasma-Moly	Ductile Iron	RFK-18PF	Cm	.169"	8
				Cast Iron	RBT-10	Cm	.172"	8
			Chrome	Cast Iron	GCL-40URW	Oil	.195"	8
41909	4.055" 103.0mm	3.00mm 2.00mm 3.00mm	Plasma-Moly	Ductile Iron	RFK-18PF	Cm	.158"	8
			Chrome	Cast Iron	BT-10UF	Cm	.178"	8
			Gas Nitride	Stainless Steel	MCL-42NGRW	Oil	.127"	8
41940	3.740" 95.0mm	2.30mm 2.00mm 3.44mm	Plasma-Moly	Carbon Steel	RFK-13PF	Cm	.151"	8
				Stainless Steel	RBT-17	Cm	.169"	8
			Chrome	Cast Iron	GCL-40URW	Oil	.147"	8
42097	3.866" 98.2mm	2.50mm 2.00mm 3.00mm	Plasma-Moly	Carbon Steel	RFK-13PF	Cm	.151"	8
				Stainless Steel	RBT-17	Cm	.173"	8
			Chrome	Cast Iron	GCL-40URW	Oil	.103"	8
42140	4.213" 107.0mm	2.87mm 2.50mm 3.46mm	Plasma-Moly	Ductile Iron	RFK-18PF	Cm	.179"	6
				Cast Iron	RBT-10	Cm	.180"	6
			Chrome	Cast Iron	GCL-40URW	Oil	.157"	6
42160	4.055" 103.0mm	3.00mm 2.00mm 3.00mm	Gas Nitride	Stainless Steel	MC66	Cm	.152"	8
			Chrome	Cast Iron	BT-10UF	Cm	.178"	8
			Gas Nitride	Stainless Steel	MCL-42NGRW	Oil	.127"	8
42168	3.898" 99.0mm	3.00mm 2.00mm 2.50mm	Plasma-Moly	Carbon Steel	RFK-13PF	Cm	.150"	8
				Stainless Steel	THM-17	Cm	.150"	8
			Gas Nitride	Stainless Steel	MCL-42NGAW	Oil	.113"	8
S41518	4.016" 102.0mm	3.00mm 2.35mm 4.00mm	Chrome	Ductile Iron	RFK-18U	Cm	.173"	1
				Cast Iron	BT-10	Cm	.180"	1
			Chrome	Cast Iron	MCL-40URW	Oil	.180"	1
S41718	4.055" 103.0mm	3.00mm 2.00mm 4.00mm	Plasma-Moly	Ductile Iron	RFK-18PF	Cm	.186"	1
				Ductile Iron	BT-18	Cm	.170"	1
			Chrome	Cast Iron	MCL-40URW	Oil	.180"	1
S41768	4.110" 104.4mm	0.1181" 0.0783" 0.136"	Plasma-Moly	Ductile Iron	RFK-18PF	Cm	.169"	1
				Cast Iron	RBT-10	Cm	.172"	1
			Chrome	Cast Iron	GCL-40URW	Oil	.195"	1
S41909	4.055" 103.0mm	3.00mm 2.00mm 3.00mm	Plasma-Moly	Ductile Iron	RFK-18PF	Cm	.158"	1
			Chrome	Cast Iron	BT-10UF	Cm	.178"	1
			Gas Nitride	Stainless Steel	MCL-42NGRW	Oil	.127"	1
S41940	3.740" 95.0mm	2.30mm 2.00mm 3.44mm	Plasma-Moly	Carbon Steel	RFK-13PF	Cm	.151"	1
				Stainless Steel	RBT-17	Cm	.169"	1
			Chrome	Cast Iron	GCL-40URW	Oil	.147"	1
S42097	3.866" 98.2mm	2.50mm 2.00mm 3.00mm	Plasma-Moly	Carbon Steel	RFK-13PF	Cm	.151"	1
				Stainless Steel	RBT-17	Cm	.173"	1
			Chrome	Cast Iron	GCL-40URW	Oil	.103"	1
S42113	4.016" 102.0mm	3.00mm 2.40mm 4.00mm	Chrome	Ductile Iron	RFK-18U	Cm	.173"	1
				Cast Iron	RBT-10	Cm	.172"	1
			Chrome	Cast Iron	MCL-40URW	Oil	.140"	1
S42140	4.213" 107.0mm	2.87mm 2.50mm 3.46mm	Plasma-Moly	Ductile Iron	RFK-18PF	Cm	.179"	1
				Cast Iron	RBT-10	Cm	.180"	1
			Chrome	Cast Iron	GCL-40URW	Oil	.157"	1
S42160	4.055" 103.0mm	3.00mm 2.00mm 3.00mm	Gas Nitride	Stainless Steel	MC66	Cm	.152"	1
			Chrome	Cast Iron	BT-10UF	Cm	.178"	1
			Gas Nitride	Stainless Steel	MCL-42NGRW	Oil	.127"	1
S42168	3.898" 99.0mm	3.00mm 2.00mm 2.50mm	Plasma-Moly	Carbon Steel	RFK-13PF	Cm	.150"	1
				Stainless Steel	THM-17	Cm	.150"	1
			Gas Nitride	Stainless Steel	MCL-42NGAW	Oil	.113"	1
S42170	4.016" 102.0mm	3.00mm 2.39mm 4.00mm	Ceramic Chrome	Ductile Iron	RFK18U	Cm	.169"	1
				Cast Iron	RBT-10	Cm	.173"	1
			Chrome	Cast Iron	MCL-40URW	Oil	.169"	1

# NUMERICAL SPECIFICATIONS - PISTONS

# MAHLE

PART NUMBER	BORE (IN)	BORE (MM)	COMP. HEIGHT (IN)	PIN DIAMETER (IN)	MATERIAL	MIN. SKIRT CLEARANCE (IN)	MEASURE SKIRT CLEARANCE AT	RINGS
224-2185	3.976	101.00	2.119	1.2200	Aluminum	.0025	0.375" from the bottom of skirt	3.00mm 2.00mm 4.00mm
224-2897	4.055	103.00	2.119	1.2200	Aluminum	.0040	0.630" from the bottom of skirt	3.00mm 2.00mm 4.00mm
224-2908	4.110	104.39	1.360	1.1100	Aluminum	.0550	1.000" from the bottom of skirt	3.00mm 2.00mm 3.50mm
224-3163	4.110	104.40	2.142	1.3085	Aluminum	.0550	0.850" from the bottom of skirt	3.00mm 2.00mm 3.50mm
224-3354	4.016	102.00	2.819	1.5750	Aluminum	.0047	0.472" from the bottom of skirt	3.00mm 2.40mm 4.00mm
224-3355	4.016	102.00	2.818	1.5750	Aluminum	.0047	0.472" from the bottom of skirt	3.00mm 2.40mm 4.00mm
224-3403	4.054	102.97	2.109	1.2200	Aluminum	.0040	0.630" from the bottom of skirt	3.00mm 2.00mm 4.00mm
224-3409	4.110	104.39	2.132	1.3085	Aluminum	.0055	0.850" from the bottom of skirt	3.00mm 2.00mm 3.50mm
224-3451	4.055	103.00	1.961	1.3580	Aluminum	.0018	0.670" from the bottom of skirt	3.00mm 2.00mm 3.00mm
224-3452	4.055	103.00	1.961	1.3580	Aluminum	.0018	0.670" from the bottom of skirt	3.00mm 2.00mm 3.00mm
224-3454	3.740	95.00	2.059	1.3390	Aluminum	.0037	0.579" from the bottom of skirt	2.30mm 2.00mm 3.50mm
224-3455	3.740	95.00	2.049	1.3390	Aluminum	.0037	0.579" from the bottom of skirt	2.30mm 2.00mm 3.50mm
224-3482HA	4.054	102.98	2.119	1.2200	Aluminum	.0040	0.630" from the bottom of skirt	3.00mm 2.00mm 4.00mm
224-3503	3.740	95.00	2.059	1.3390	Aluminum	.0036	0.579" from the bottom of skirt	2.30mm 2.00mm 3.50mm
224-3508	4.110	104.40	1.950	1.1100	Aluminum	.0050	1.150" from the bottom of skirt	3.00mm 2.00mm 3.50mm
224-3509HA	4.110	104.40	1.930	1.1100	Aluminum	.0050	1.150" from the bottom of skirt	3.00mm 2.00mm 3.50mm
224-3511HA	4.110	104.40	1.950	1.3070	Aluminum	.0060	1.000" from the bottom of skirt	3.16mm 2.52mm 3.50mm
224-3512HA	4.110	104.40	1.940	1.3070	Aluminum	.0060	1.000" from the bottom of skirt	3.16mm 2.52mm 3.50mm
224-3513	4.016	102.00	2.822	1.5750	Aluminum	.0047	0.472" from the bottom of skirt	3.00mm 2.40mm 4.00mm
224-3514	4.016	102.00	2.812	1.5748	Aluminum	.0047	0.472" from the bottom of skirt	3.00mm 2.40mm 4.00mm
224-3515	4.016	102.00	2.818	1.5748	Aluminum	.0047	0.472" from the bottom of skirt	3.00mm 2.40mm 4.00mm
224-3520	4.016	102.00	2.820	1.5750	Aluminum	.0047	0.472" from the bottom of skirt	3.00mm 2.40mm 4.00mm

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Sealing Products



# NUMERICAL SPECIFICATIONS - PISTONS



PART NUMBER	BORE (IN)	BORE (MM)	COMP. HEIGHT (IN)	PIN DIAMETER (IN)	MATERIAL	MIN. SKIRT CLEARANCE (IN)	MEASURE SKIRT CLEARANCE AT	RINGS
<b>224-3523</b>	4.016	102.00	2.817	1.5750	Aluminum	.0047	0.472" from the bottom of skirt	3.00mm 2.40mm 4.00mm
<b>224-3525</b>	4.016	102.00	2.817	1.5750	Aluminum	.0047	0.472" from the bottom of skirt	3.00mm 2.40mm 4.00mm
<b>224-3526</b>	4.016	102.00	2.817	1.5750	Aluminum	.0047	0.472" from the bottom of skirt	2.40mm 2.40mm 4.00mm
<b>224-3577HA</b>	4.055	103.00	2.108	1.2205	Aluminum	.0039	0.630" from the bottom of skirt	3.00mm 2.00mm 4.00mm
<b>224-3672</b>	4.016	102.00	2.811	1.5748	Aluminum	.0039	0.591" from the bottom of skirt	3.00mm 2.40mm 4.00mm
<b>224-3673</b>	4.016	102.00	2.811	1.5748	Aluminum	.0039	0.591" from the bottom of skirt	3.00mm 2.40mm 4.00mm
<b>224-3674</b>	4.016	102.00	2.811	1.5748	Aluminum	.0039	0.472" from the bottom of skirt	3.00mm 2.40mm 4.00mm
<b>224-3708</b>	4.055	103.00	1.961	1.3386	Aluminum	.0039	0.551" from the bottom of skirt	3.00mm 2.00mm 3.00mm
<b>224-3709</b>	4.055	103.00	1.961	1.3386	Aluminum	.0039	0.551" from the bottom of skirt	3.00mm 2.00mm 3.00mm
<b>224-3732</b>	4.213	107.00	2.732	1.5748	Aluminum	.0047	0.591" from the bottom of skirt	3.00mm 2.50mm 3.50mm

PART NUMBER	MATERIAL	STD SHAFT DIAMETER	VERT OIL CLEARANCE	MAX WALL	BRG O.D. OR HOUSING BORE	MAX LENGTH
<b>Engine Piston Pin Bushing</b>						
223-3576	C-1			0.0580	1.3030 / 1.3045	1.0010
223-3583	C-1			0.1580	1.2375 / 1.2380	1.0780
223-3644	C-1			0.0690	1.6924 / 1.6934	1.5100
223-3652	C-1			0.0760	1.4320 / 1.4330	1.1520
223-3659	C-1				1.4763 / 1.4773	1.5625
223-3671	C-1	1.3384 / 1.3413		0.0740		1.0450

<b>Engine Connecting Rod Bearing</b>						
CB-1286P	TM-77	2.3982 / 2.3992	0.0014 / 0.0044	0.0620	2.5246 / 2.5256	0.9020
CB-1327P	TM-112	2.4980 / 2.4990	0.0011 / 0.0041	0.0952	2.6905 / 2.6915	0.8880
CB-1413H	TM-112	2.7160 / 2.7170	0.0015 / 0.0045	0.0775	2.8735 / 2.8745	1.2250
CB-1413HX	TM-112	2.7160 / 2.7170	0.0025 / 0.0055	0.0770	2.8735 / 2.8745	1.2250
CB-1413P	TM-112	2.7160 / 2.7170	0.0015 / 0.0045	0.0775	2.8735 / 2.8745	1.2250
CB-1633P	TM-112	2.4980 / 2.4990	0.0016 / 0.0046	0.0952	2.6905 / 2.6915	0.9640
CB-1805H	TM-77	2.4764 / 2.4772	0.0010 / 0.0034	0.0794	2.6372 / 2.6378	0.9340
CB-1805HX	TM-77	2.4764 / 2.4772	0.0020 / 0.0044	0.0789	2.6372 / 2.6378	0.9340
CB-1805P	TM-77	2.4764 / 2.4772	0.0010 / 0.0034	0.0795	2.6372 / 2.6378	0.9340
CB-1810P-.25mm	TM-77	2.4764 / 2.4772	0.0010 / 0.0034	0.0805	2.6392 / 2.6398	0.9340
CB-1814P	TM-77	2.7165 / 2.7170	0.0006 / 0.0035	0.0780	2.8735 / 2.8744	0.8310
CB-1815P-.25mm	TM-77	2.7165 / 2.7170	0.0006 / 0.0035	0.0790	2.8755 / 2.8764	0.8310
CB-1846P-.25mm	TM-112	2.7160 / 2.7170	0.0015 / 0.0045	0.0874	2.8835 / 2.8845	1.2250
CB-1869P	TM-77	2.8341 / 2.8352	0.0004 / 0.0035	0.0780	2.9916 / 2.9926	0.8310
CB-1873AP	TM-112	2.7160 / 2.7170	0.0015 / 0.0045	0.0775	2.8735 / 2.8745	1.2250
CB-1873H	TM-112	2.7160 / 2.7170	0.0015 / 0.0045	0.0775	2.8735 / 2.8745	1.2250
CB-1873HX	TM-112	2.7160 / 2.7170	0.0020 / 0.0050	0.0770	2.8735 / 2.8745	1.2250
CB-1876P-.25mm	TM-77	2.8341 / 2.8352	0.0004 / 0.0035	0.0790	2.9936 / 2.9946	0.8310

<b>Engine Crankshaft Main Bearing</b>						
MB-3109A	AL-3					
MB-3110A	AL-3					

<b>Engine Crankshaft Main Bearing Set</b>						
MS-1596P	TM-112					
1-2-4-5	MB-2934P	3.1228 / 3.1236	0.0021 / 0.0049	0.0949	3.3152 / 3.3162	0.8750
3	MB-2935P(F)	3.1228 / 3.1236	0.0021 / 0.0049	0.0949	3.3152 / 3.3162	1.1300
MS-1717H	TM-112					
1-2-3-4-5-7	MB-3110H	3.2672 / 3.2682	0.0017 / 0.0047	0.0970	3.4638 / 3.4652	1.1430
6	MB-3109H(F)	3.2672 / 3.2682	0.0017 / 0.0047	0.0970	3.4638 / 3.4652	1.4700
MS-1717HX	TM-112					
1-2-3-4-5-7	MB-3110HX	3.2672 / 3.2682	0.0027 / 0.0057	0.0965	3.4638 / 3.4652	1.1430
6	MB-3109HX(F)	3.2672 / 3.2682	0.0027 / 0.0057	0.0965	3.4638 / 3.4652	1.4700
MS-1717P	TM-112					
1-2-3-4-5-7	MB-3110P	3.2672 / 3.2682	0.0017 / 0.0047	0.0970	3.4638 / 3.4652	1.1430
6	MB-3109P(F)	3.2672 / 3.2682	0.0017 / 0.0047	0.0970	3.4638 / 3.4652	1.4700
MS-2034P	TM-112					
1-2-3-4	MB-3497P	3.1228 / 3.1236	0.0018 / 0.0046	0.0949	3.3152 / 3.3162	0.9330
5	MB-3498P(F)	3.1228 / 3.1236	0.0018 / 0.0046	0.0949	3.3152 / 3.3162	1.2380
MS-2091P	TM-77					
1-2-4	MB-3587P	2.9495 / 2.9504	0.0016 / 0.0045	0.0955	3.1427 / 3.1437	0.8970
3	MB-3588P(F)	2.9495 / 2.9504	0.0016 / 0.0045	0.0955	3.1427 / 3.1437	1.1300
5	MB-3589P	2.9493 / 2.9503	0.0018 / 0.0047	0.0955	3.1427 / 3.1437	1.3910
MS-2218H	TM-77					
1-2-3-4-5	MB-3776H	3.1459 / 3.1466	0.0009 / 0.0033	0.0994	3.3464 / 3.3472	0.8200
MS-2218HX	TM-77					
1-2-3-4-5	MB-3776HX	3.1459 / 3.1466	0.0019 / 0.0043	0.0989	3.3465 / 3.3472	0.8200
MS-2218P	TM-77					
1-2-3-4-5	MB-3776P	3.1459 / 3.1466	0.0009 / 0.0033	0.0995	3.3464 / 3.3472	0.8200
MS-2223P	TM-77					
1-2-3-5	MB-3787P	3.1886 / 3.1894	0.0015 / 0.0041	0.0976	3.3854 / 3.3862	0.8465
4	MB-3788P(F)	3.1886 / 3.1894	0.0015 / 0.0041	0.0976	3.3854 / 3.3862	1.1180

PART NUMBER	MATERIAL	STD SHAFT DIAMETER	VERT OIL CLEARANCE	MAX WALL	BRG O.D. OR HOUSING BORE	MAX LENGTH
<b>Engine Crankshaft Main Bearing Set(cont).</b>						
<b>MS-2269P</b>	TM-77					
1-2-3-5	MB-3874P	3.1886 / 3.1894	0.0008 / 0.0034	0.0976	3.3854 / 3.3862	0.8465
4	MB-3875P(F)	3.1886 / 3.1894	0.0008 / 0.0034	0.0976	3.3854 / 3.3862	1.1200
<b>MS-2272P</b>	TM-112					
1-2-3-4-5-7	MB-3110P	3.2672 / 3.2682	0.0017 / 0.0047	0.0970	3.4638 / 3.4652	1.1430
6	MB-3786P(F)	3.2672 / 3.2682	0.0017 / 0.0047	0.0970	3.4638 / 3.4652	1.4700

### Engine Camshaft Bearing Set

<b>SH-1092S</b>	B-1					
1	SH-1092	2.0990 / 2.1000	0.0011 / 0.0048	0.0647	2.2305 / 2.2320	0.7900
2-3-4-5	SH-1093	2.0990 / 2.1000	0.0011 / 0.0048	0.0647	2.2305 / 2.2320	0.6550
<b>SH-1366S</b>	B-1					
1	SH-1366	2.1644 / 2.1663	0.0011 / 0.0062	0.0798	2.3270 / 2.3290	0.9000
2	SH-1367	2.1644 / 2.1663	0.0011 / 0.0062	0.0753	2.3180 / 2.3200	0.7800
3	SH-1368	2.1644 / 2.1663	0.0011 / 0.0062	0.0703	2.3080 / 2.3100	0.7800
4	SH-1369	2.1644 / 2.1663	0.0011 / 0.0062	0.0653	2.2980 / 2.3000	0.7800
5	SH-1370	2.0069 / 2.0089	0.0011 / 0.0063	0.0655	2.1410 / 2.1430	0.7800
<b>SH-1996S</b>	B-1					
1-2-3-4-5	SH-1996	2.4404 / 2.4415	0.0013 / 0.0060	0.0774	2.5976 / 2.5992	0.7480
<b>SH-1999S</b>	B-1					
1	SH-1999	2.3988 / 2.4000		0.0790	2.5590 / 2.5602	1.1250
2-3-4-5	SH-2006	2.3988 / 2.4000		0.0790	2.5590 / 2.5602	0.7100

### Engine Camshaft Bearing

<b>SH-1404</b>	AL-3	2.1245 / 2.1265			2.2528 / 2.2542	1.0100
<b>SH-1981</b>	C-1	2.1255 / 2.1265		0.1010	2.3316 / 2.3330	1.0100

### Engine Crankshaft Thrust Washer Set

<b>TW-610S</b>	MB-3776W	3.5039 / 3.5137			4.2027 / 4.2125	0.1181
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## Valve Guides

PART NO	MATERIAL	INNER DIAMETER	OUTER DIAMETER	LENGTH	STEM TYPE	VALVE TYPE
217-3450	Iron	.374"	.627"	2.600"	Plain	Both
217-4114	Iron	.3162"	.5525"	2.382"	Grooved	
217-4115	Iron	.3162"	.5527"	2.052"	Grooved	
217-4116	Iron	.3162"	.4395"	2.500"	Grooved	

## Valve Seat Insert

PART NO	INNER DIAMETER	OUTER DIAMETER	DEPTH	SEAT ANGLE	VALVE TYPE
218-3787	1.357"	1.722"	.2650"	45°	
218-3788	1.498"	1.853"	.273"	30°	
218-3789					
218-3790					
218-3791	1.10"	1.375"	.227"	45°	
218-3792					
218-4506	1.312"	1.562"	.186"	45°	Exhaust
218-7920	1.372"	1.664"	.272"	37°	Exhaust
218-7921	1.687"	1.937"	.187"	45°	Intake

## Valve Spring

PART NO	LENGTH	MAX OUTER DIAMETER	VALVE CLOSED LENGTH	VALVE OPEN LENGTH	CLOSED PRESSURE	OPEN PRESSURE	NO OF COILS
212-1094	2.050"	1.390"	1.800"	1.400"	72 / 80 psi	191 / 203 psi	
212-1310	2.035"	1.268"	1.811"	1.390"	75 / 85 psi	220 / 240 psi	
212-1385	2.050"	1.390"	1.800"	1.400"	72 / 80 psi	191 / 203 psi	6.500
212-1798	2.158"	1.275"		1.298"	40 / - psi	148 / - psi	8.25
212-1799							
212-1800	2.235"	1.325"	1.350"		59 / - psi	180 / - psi	7.10
212-1801	2.385"	1.32"		1.40"	78 / - psi	174 / - psi	7.60

## Valve

PART NO	HEAD DIAMETER	LENGTH	STEM DIAMETER	SEAT ANGLE	VALVE TYPE	STEM TYPE	O-RING GROOVE
211-2497	1.811"	5.108"	.3413"	45°	Intake	2 Groove	
211-2561	1.878"	5.689"	.3719"	60°	Intake	1 Groove	Yes
211-2562	1.600"	5.677"	.3719"	52°	Exhaust	1 Groove	Yes
211-4079	1.68"	5.805"	.3122"	30°	Intake	1 Groove	No
211-4080	1.68"	5.799"	.3122"	37°	Exhaust	1 Groove	No
211-4090	1.535"				Exhaust		No
211-4182	1.299"	4.907"	.2756"	30°	Intake	1 Groove	No
211-4183	1.299"	4.893"	.2756"	30°	Exhaust	1 Groove	No
211-4264	1.299"	4.975"	.2738"	45°	Intake	1 Groove	No
211-4265	1.22"	4.963"	.273"	45°	Exhaust	1 Groove	No
211-4276	1.339"	5.019"	.2737"	30°	Intake	1 Groove	Yes
211-4277	1.102"	5.059"	.2737"	36°	Exhaust	1 Groove	Yes
211-4294							

# INTERCHANGES



AC DELCO	MAHLE CLEVITE	BALDWIN	MAHLE CLEVITE	BORG WARNER	MAHLE CLEVITE	CHAMP	MAHLE CLEVITE
A1236C	LX 2921	B201S	OC 239	170290	144TC24010000	CAF1708	LA 716S
A1300C	LX 2941	B7181	OC 1001	170310	144TC24008000	L9800F	KX 357
A1301C	LX 2934	PA2178	LX 2921	171076	599TC24522000		
A1622C	LX 2921	PA3763	LX 2933	20-806	72010		
A977C	LX 2928	PA4148	LX 2928	23	72224		
CF104	LA 716S	PA4149KIT	LA 716S	SK4415AE704	72224		
GF833	KX 357	PA4162	LX 2947	SK4443S	72010		
HL101	213-1725	PA4171	LX 2918	TC181	9-181		
HL82	213-1725	RS3706	LX 2934				
HL84A	213-1725	RS3735	LX 2941				
HL86	213-1725						
HL86A	213-1725						
HL86B	213-1725						
HL86C	213-1725						
HL97A	213-1725						
PF1070	OC 1001						
PF454	OC 114						

CHRYSLER	MAHLE CLEVITE	CHRYSLER	MAHLE CLEVITE	CHRYSLER	MAHLE CLEVITE	CUMMINS	MAHLE CLEVITE
1316 864	72010	5083285AA	OC 1001	Z2262	D27094	166772	216-5006
1407 163	72010	5086 740AA	C31858	Z270	B45229	2830704	54556
2231 855	P18562	5086 854AA	OS32278	Z342	D27094	2830705	54556A
2515 343	P18562	5086 859AB	54557			2830977	D32483
2831 414	H36080	5086 859AB	54557A			3282805	4068C
2909 288	J27966	5086 861AA	B45962			3283000	4068D
2952 471	P18562	5086 862AA	B45963			3283335	4068C
3577 870	D27094	5093 228AB	HS54556			3283337	4068D
3634 985	P18562	5093 229AA	CS54556			3283339	4068E
3769 935	2051	5093117AB	224-3674			3283570	4068C
4217 32C91	46467	5093118AA	224-3672			3284623	PS38801
4429 051	S41518	5114 027AA	48384			3287561	B32484
4429 057	4068C	5114 418AA	VS50419			3800781	225-3355
4429 070	MS-1717P	5135 789AA	MS19741			3800799RX	286TC21002000
4429 097	B45411A	5139059AA	224-3673			3802025	HS4068
4429 353	48383	5179 091AA	VS50543			3802026	HS4068
4429 368	SH-1404	5179 091AB	VS50543			3802029	CS4068
4429 698	K31420	5303 4051AB	LX 3069			3802050	S41518
4429175AB	CB-1413P	53032700AA	LX 2947			3802056	S41518
4429395	OC 1001	53032700AB	LX 2947			3802070	MS-1717P
4720 996	4068C	567 500	H36080			3802226	HS4068
4728 207	C31421	6031 196	72010			3802230	S41518
4728406	LX 2933	6032 145	2051			3802243	HS4068
4797 255	C31710	63087	72010			3802267	CS4068
4798 940AB	PS38801	6800 1914AA	KX 357			3802363	HS4068
4864442AB	LX 2933	6800 1914AB	KX 357			3802364	HS4068A
5003617AA	SH-1981	6800 5184AA	G32461			3802376	CS4068
5011 403AA	GS33493	6800 5276AA	CS54774-1			3802391	286TC16022000
5011 790AA	213-1782	6800 5334AA	G32463			3802394	229-2443
5011 876	54174	68005 262AA	HS54774-1			3802421	S41518
5011 877AA	211-4183	68005 465AA	G32481			3802481	211-4294
5011 879AA	211-4182	68027 035AA	G32479			3802520	MB-3110A
5011 881AA	B45903	68038 089AA	G32480			3802746	S41518
5011 892AA	215-4348	8350 6402	C31421			3802820	48383
5011 933AA	HS54174-2	8350 7220	PS38801			3802924	211-4182
5011 933AB	HS54174-2	BSZ3327	JV749			3802967	211-4183
5012 110AA	4068C	FPZ294	D27094			3804355	48383
5012 290AA	48383	FPZ295	D25932			3804897	HS4068
5015 705AA	48384	FPZ3019	D27094			3804899	48383
5016 356AB	VS50317	RDZ3978	P27940			3804964	286TC21003000
5016333AA	B45902	RDZ4233	P18562			3900276	212-1800
5016547AA	OC 1001	RDZ4235	P27857			3900299	216-4121
5016547AC	OC 1001	T3839	46467			3900709	48383
5017 783AA	72010	Z125	D27094			3901085	223-3644
5017787AD	286TC25004000	Z199	D27094			3901097	B45411A
5029703AA	LX 2947	Z2261	D27094			3901170	CB-1413P

# INTERCHANGES

# MAHLE

CUMMINS	MAHLE CLEVITE	CUMMINS	MAHLE CLEVITE	CUMMINS	MAHLE CLEVITE	CUMMINS	MAHLE CLEVITE
3901306	SH-1404	3932453	212-1799	3965497	224-3672	68642	72224
3902002	MS12435	3935878	VS50317	3966342	54556A	E44360	72010
3903653	4068C	3935892	230-3057	3966342	HS54556	ES119	72010
3904105	218-3787	3937111	48383	3966343	54556		
3904353	48383	3937219	214-2196	3966343	HS54556		
3904408	217-4114	3937220	214-2197	3969988	MS19355		
3904409	217-4115	3938152	MS12435	3970192	224-3673		
3906080	48383	3939719	218-3789	3970518	S42140		
3906206	217-4116	3940059	SH-1981	3970548	48384		
3906223	224-3526	3940123	216-5243	3975641	VS50543		
3906698	K31420	3940734	211-4183	3977063	54174		
3906854	218-3788	3940735	211-4182	3977063	54174A		
3907057	4068C	3941253	215-4348	3977063	54174B		
3908997	4068C	3941476	223-3644	3977063(.25MM)	54174A		
3909409	GS33491	3942368	54174	3977063(.50MM)	54174B		
3910810	214-2194	3942567	229-2441	3977338	G32463		
3910811	214-2195	3942571	B45903	3977913	GS33485		
3912220	F10142	3942572	B45902	3978818	MB-3110A		
3914029	MS12435	3942755	8-5506	3978820	MB-3110A		
3915730	4068C	3942989	B45903	3978822	MB-3109A		
3916691	212-1798	3943449	218-3790	3979506	229-2444		
3917357	4068C	3943450	218-3791	3979769	G32461		
3917358	4068C	3943626	214-1182	4025224	MS-2272P		
3918305	4068C	3945438	B45902	4037002	286TC25042000		
3918306	4068D	3945803	54174	4089172	HS54556		
3918307	4068E	3945803(.25MM)	54174A	4089172	HS54557		
3921394	4068C	3946051	224-3354	4089342	48384		
3921396	4068D	3946153	224-3355	4089642	286TC25004000		
3921640	B45411A	3946436	8-5509	4089781	HS54556		
3921954	8-5508	3947530	MS19355	4891178	223-3644		
3922488	214-1184	3949910	G32479	4934074	218-3792		
3923331	C31421	3954829	C31858	4935205	KX 357		
3925031	213-1782	3954875	54557	4937829	G32480		
3925175	211-4294	3954876	54557A	4942435	G32480		
3926126	67857	3955109	VS50419	4943533	G32480		
3926631	224-3515	3955339	MS19225	4955352	MB-3109A		
3926632	224-3513	3955339	MS19741	4955352	MB-3110A		
3926700	212-1801	3955393	B45962	4955354	HS54774-1		
3927063	GS33493	3955394	B45963	4955355	CS54774-1		
3927154	MS10141	3957486	OS32278	4955365	225-3732		
3928832	PS38801	3957912	B45953	4955366	S42140		
3929028	8-5507	3958165	OS32278	4992982	VS50543		
3929734	229-2440	3958644	54557	5264950	VS50543		
3930906	VS50215S	3958645	54557A	5266422	MS19741		
3931347	MS12435	3958716	G32481	5266801	G32480		
3931623	213-1782	3963379	VS50419	68061A	72010		

**VICTOR REINZ®**  
Sealing Products



**MAHLE ORIGINAL**

F.P. DIESEL	MAHLE CLEVITE	F.P. DIESEL	MAHLE CLEVITE	FEL-PRO INC.	MAHLE CLEVITE	FEL-PRO INC.	MAHLE CLEVITE
FP-1804353	213-1725	FP3802711	225-3523	11853	P18562	55350	J17829
FP-1816674	224-2908	FP3802820	48383	13391	P27940	55372	H36080
FP-1825540	212-1385	FP3802820	JV5076	227	JV8	55375	H26207
FP-3802376	CS4068	FP3900709	48383	26216PT	54557	55379	H26205
FP-3802561-WP	224-3515	FP3901085	223-3644	26218PT	54557A	55380	H26206
FP-3804897	HS4068	FP3901097	B45411A	26269PT	54583	60555	G27655
FP-3922571-WP	224-3520	FP3901306	SH-1404	26269PT1	54583	60679	F14627
FP-3925031	213-1782	FP3904353	48383	26270PT	54580	60718	F7507
FP-3931623	213-1782	FP3906223WP	224-3526	26270PT1	54580	60928	F10142
FP-3939859	CB-1873AP	FP3906698	K31420	26271PT	54584	6095	P18562
FP-3958675	224-3674	FP3907156WP	224-3523	26271PT1	54584	61379	F31903
FP-3965497	224-3672	FP3907163WP	224-3525	26272PT	54581	61457	F31897
FP-3967060	CB-1873AP	FP3912220	F10142	26272PT1	54581	61478	G31817
FP-3970192	224-3673	FP3914029	MS12435	26273PT	54585	61559	F7538
FP-4089259	224-3672	FP3926126	67857	26273PT1	54585	6579	D27094
FP-4089260	224-3674	FP3926632	224-3513	26274PT	54582	70150	B26454
FP-4089669	224-3673	FP3928832	PS38801	26274PT1	54582	70781	G31327
FP-4893693	CB-1873AP	FP3931347	MS12435	26374PT	54450	70820	B45828
FP-PK0781	225-3355	FP3939859	CB-1413P	26375PT	54579	70822	2051
FP-PK2571	225-3520	FP3940059	SH-1981	35193	C24550	71219	F31901
FP-PK6631	224-3515	FP3946051	224-3354	35268	K27163	71220	F31902
FP1802200	CB-1327P	FP3946153	224-3355	35270	C24551	71248	F31909
FP1804000	223-3583	FP3955393	B45962	35271	C24125	71249	F31910
FP1804009	CS5869	FP3955394	B45963	35289	C30811	71250	F31911
FP1805407	217-3450	FP3958165	OS32278	35357	C30677	71251	F31912
FP1809057	5869G	FP3977063	54174	35525	K31420	72556	D27094
FP1812301	CB-1633P	FP3977338	G32463	35526	C31421	8726PT	3678
FP1812376	67631	FP3979769	G32461	356101	C32036	9016PT	5869G
FP1816562	224-2908	FP4089342	48384	35612	K31779	9047PT	5869G
FP1823452	211-4080	FP4955354	HS54774-1	35639	C31710	9128PT	3678T
FP1823453	211-4079	FP4955355	CS54774-1	35703	C31858	9239PT	54204
FP1830949	S41768	FP4955365	225-3732	35710	C31273	9332PT	4068C
FP2830977	D32483	FP6735K23001	48384	35756	K31904	9521PT	4021T
FP3283337	4068D			35757	C31900	9522PT	54174
FP3283339	4068E			35758	C32062	9523PT	4068E
FP3283570	4068C			35762	C31889	9534PT	4068D
FP3284623	PS38801			35808	C31801	9701PT	4021
FP3800781	224-3355			35812	K31802	BS13927	JV749
FP3800838	224-3354			35812	K31803	BS15868-1	JV547
FP3802050	S41518			405	72010	BS40402	JV749
FP3802070	MS-1717P			5088	J17829	BS40436	67628
FP3802230	S41518			5112	B45229	BS40529	JV560
FP3802245	HS4068B			5182	D25932	BS40604	JV1617
FP3802364	HS4068A			5231	D27094	BS40633	JV1622
FP3802421	S41518			55054	J17829	BS40650	JV1622
FP3802562WP	224-3513			55328	J26212	BS40683	JV1691



FEL-PRO INC.	MAHLE CLEVITE	FEL-PRO INC.	MAHLE CLEVITE	FEL-PRO INC.	MAHLE CLEVITE	FORD	MAHLE CLEVITE
BS40692	JV1690	OS34200C	OS32053	TCS46031	JV5076	1843285C2	224-3503
CS26269	CS54580	OS34400	OS30591	TCS46106	JV5066	1C3Z-9601-AA	LX 2928
CS26374	CS54450	OS34406	OS32134	TS80161	TS27920Y	1GA 9417	D27094
CS8726-2	CS3678A	P12218	P18562	TS80324	TS27275	3C3Z 6505-AA	211-4277
CS87261	CS3678B	PS50397R	PS38801	TS80332	TS27275	3C3Z 6507-AA	211-4276
CS8891	CS5869	RDS11853	P18562	VS50228C	VS38327	3C3Z 6571-AA	B45952
CS9239	CS54204A	RDS13374	P27940	VS50396R	VS50215S	3C3Z 6700-BA	67726
CS9239-1	CS54204A	RDS13391	P27940	VS50483R	VS50328	3C3Z 6N640-AA	F31804
CS9522	CS54174	RDS13410	P27857TC	VS50484R	VS50329	3C3Z 8255-AA	C31801
ES72161	GS33379	RDS55028-1	P27857	VS50505R	VS50215S	3C3Z 8507-AA	K31802
ES72193	GS33493	RDS55063	P28128	VS50506R	VS50317	3C3Z 9229-AA	GS33442
ES72199	GS33504	RDS55075	P27990	VS50589R	VS50419	3C3Z 9433-AA	MS19311
ES72229	GS33494	RDS55341	P27608TC	VS50622R	VS50438	3C3Z 9N517-AA	GS33519
ES72242	GS33519	RDS55387	P29139TC	VS50668R	VS50543	3C3Z 9P457-AA	G31817
ES72245	GS33593	RDS55394	P38155TC	VS50681	VS50434	3C3Z-6731-AA	OX 783
ES72248	GS33593	RDS55447	P38163TC	VS50684R	VS50439	3C3Z-6D309-AA	MS-2269P
ES72724	GS33193	RDS6014	P18562			3C3Z6D309AA	MS-2223P
HS26218PT	HS54557	RDS6095-1	P18562			4C2Z-9601-AA	LX 2918
HS9016PT	HS5869	RED3	JV8			4C3Z 6051-EA	54450
HS9047PT	HS5869	SS12434	B45229			4C3Z 6051-EB	54450
HS9239PT	HS54204A	SS27205	B45229			4C3Z 8507-AA	K31803
HS9522PT	HS54174-2	SS5112	B45229			4C3Z6K682CCRM	014TC26159100
HSU26269	HS54580	SS70819-1	B45411A			5750185	D27094
HSU262691	HS54580A	SS70937	B45902			6C2Z-9601-A	LX 2918
HSU8726	HS3678	SS70937	B45903			6C3Z 9448-A	MS19312
HSU8726-1	HS3678	SS71186	B45962			7EQ 7166	H36080
KS2344	FS5869	SS71186	B45963			7RA 9417	D27094
MS90176-1	MS16316	SS71264	B45952			8C3Z 6065-A	GS33495
MS91242	MS15369	SS72528	B45229			8C3Z 6700-A	67831
MS91585	MS15306	SS72530	B45229			8C3Z 6N640-A	B32256
MS91586	MS15335	SS72531	B45229			8C3Z 6N640-B	B32255
MS91587	MS15336	SS72628	B45560			8C3Z 8255-A	C32243
MS92089	MS10141	SS72628-1	B45560			8C3Z 8507-B	K32242
MS92492	MS19225	SS72628-1	B45662			8C3Z 9229-A	GS33555
MS93489	MS16314	SS72711	B45812			8C3Z 9J559-A	G31817
MS95087	MS12435	SS72893	B45897			8C3Z-6211-A	CB-1869P
MS96038	MS15968	SS72916	B45974			8C3Z-6565-B	215-4354
MS96543	MS19398	TCS45016	JV5059			A8TZ 9417-A	D27094
MS96788	MS19398	TCS45017	JV5060			B5A 9417-A	D27094
MS96792	MS19311	TCS45050	JV5060			B8A 9417-A	D27094
MS96833	MS19312	TCS45055	JV5079			B9TT7166C	H36080
N/I	MS19741	TCS45575	JV1019			BB 7166	H36080
OS30442A	OS30591	TCS45686	JV1134			BC3Z 8590-K	C32265
OS30694	OS32139	TCS45686	JV971			BC3Z 8590-PA	C32248
OS30738	OS32278	TCS45902	JV1186			BC3Z-6108-A	42168
OS34102	OS32139	TCS45994	JV5097			CODE 9417-A	D27094

FORD	MAHLE CLEVITE	FORD	MAHLE CLEVITE	FORD	MAHLE CLEVITE	FRAM	MAHLE CLEVITE
C0SE 9417-A	D27094	E3TZ 8255-A	C24551	F4TZ6505-A	211-4080	CA10162	LX 2918
C1SZ 9417-A	D27094	E3TZ 8255-B	C24550	F4TZ6505-C	211-4080	CA10261	LX 3069
C1TT 4036-B	P18562	E3TZ 8507-A	K27163	F4TZ6507-A	211-4079	CA3914	LX 2921
C1TZ 4035-B	P18562	E3TZ 9417-A	D27094	F4TZ6507-B	211-4079	CA7614	LX 2569
C1TZ 4036-A	P18562	E3TZ 9439-B	MS15968	F5TZ 6148-A	41768	CA7640	LX 2933
C3AE 9417-B	D27094	E3TZ6057B	218-7920	F5UZ-9601-A	LX 2569	CA8037	LX 2934
C3AZ 9417-B	D27094	E43Z 9417-A	D27094	F6TZ 6148-BC	41768	CA8038	LX 2941
C3AZ 9417-C	D27094	E4TZ 6513-C	212-1094	F6TZ 6E078-BB	CS54204A	CA8755	LX 2562
C3DE 9417-A	D27094	E5TZ 5C250-A	F14627	F6TZ6K682ARM	014TC26158000	CA9400	LX 2928
C3DZ 9417-A	D27094	E5TZ 5C250-E	F14627	F7TZ 6102-AAA	224-3163	CA9589	LX 2947
C3RZ-6731-A	OC 114	E6TZ 5C250-A	F14627	F7TZ 6148-AAA	41768	CF8791	LA 716S
C4TZ 6571-B	B45229	E6TZ 6A527-A	214-1179	F7TZ6051AAA	54204	CH9549	OX 783
C4TZ 6571-G	B45229	E7TZ6564B	214-1131	F81Z 6584-AA	VS50329	CS10145	KX 357
C5TZ 4036-A	P18562	E8TZ 6051-B	5869G	W301373	GS33445	G3727	KL 676
C5TZ 4036-B	P18562	E8TZ 6079-A	HS5869	XC3Z 6108-AA	224-3454	HP4	OC 114
C5TZ 6571-A	B45229	E8TZ 6505-B	211-2562	XC3Z 9229-AB	GS33440	P3828	OC 239
C5TZ 6571-B	B45229	E8TZ 6517-A	B45662			PH13	OC 114
C9ZZ 6518-A	216-5118A	E8TZ 9439-A	MS15968			PH3976A	OC 1001
D4FZ 9417-A	D27094	E9TZ 6079-B	HS5869			PH5	OC 114
D4TZ 7153-B	TS27275	E9TZ 6102-A	224-2908				
D5TZ 9417-A	D27094	E9TZ 6148-A	41548				
D5UA 1190-A	46467	E9TZ 6148-E	41548				
D5UZ 1190-A	46467	E9TZ 6500-A	213-1725				
D7TA 1144-BA	J26212	E9TZ 8255-A	C24550				
D8TZ 1001-A	J26212	E9TZ 9439-A	MS15968				
E0HZ-6731-A	OC 114	EAA 6571-A	B45229				
E0TA 1144-AA	J26212	ECG 9417-A	D27094				
E0TA 5B266-AA	F14627	F2TZ 6102-A	224-2908				
E0TZ 1001-A	J26212	F3TZ 6051-A	5869G				
E0TZ 1190-B	46467	F3TZ 6148-C	41548				
E0TZ 5B266-A	F14627	F4TZ 6020-BB	JV5059				
E2AE 9417-AA	D27094	F4TZ 6051-A	54204				
E2AZ 9417-A	D27094	F4TZ 6065-A	GS33379				
E3TZ 6207-A	223-3583	F4TZ 6148-A	41768				
E3TZ 6250-B	229-1872	F4TZ 6207-A	223-3652				
E3TZ 6500-A	213-1725	F4TZ 6211-A	CB-1633P				
E3TZ 6505-D	211-2562	F4TZ 6518-A	216-5006				
E3TZ 6507-D	211-2561	F4TZ 6565-A	215-4343				
E3TZ 6510-B	217-3450	F4TZ 6571-A	B45897				
E3TZ 6513-B	212-1094	F4TZ 6584-A	VS50328				
E3TZ 6571-A	B45560	F4TZ 6700-A	67631				
E3TZ 6584-A	VS39471	F4TZ 6A251-A	SH-1092S				
E3TZ 6584-F	VS39471	F4TZ 6E078-BBB	CS54204A				
E3TZ 6700-A	JV1019	F4TZ 8255-A	C32036				
E3TZ 6701-A	JV547	F4TZ 8507-A	K31779				
E3TZ 6734-A	2051	F4TZ 9448-A	MS16314				

# INTERCHANGES

# MAHLE

GARRETT / HONEYWELL	MAHLE CLEVITE	GMC	MAHLE CLEVITE	GMC	MAHLE CLEVITE	GMC	MAHLE CLEVITE
468485-5004S	014TC26158000	03536966	B45828	12556124	599TC21102000	15733803	F7538
		10108682	C31273	12564768	601-2091	15908916	LX 2562
		10114141	D27094	1289450	D27094	15954812	F7566
		10137486	B26454	1319894	D27094	15998574	LX 2941
		10137488	C30677	1389969	2051	1685555	P18562
		10137489	C30811	14022642	229-1849	18009095	CB-1286P
		10137492	K27395	14022647	9-181	19114110	LX 2562
		10137537	MS16316	14022651	B26454	2194132	B45229
		10149663	211-4090	14024209	K27395	226256	2051
		10154642	3678	14025512	212-1310	2282100	72010
		10154652	599TC24521000	14025519	3678	23500139	JV560
		10183934	599TC24522000	14025528	223-3576	23500417	JV560
		10183937	224-2897	14028916	C24125	23502552	B45812
		10191427	G31327	14028939	JV749	23502587	OS32134
		10191430	G27655	14028951	C30677	23503969	JV1617
		10191640	46467	14033550	B45229	2350994	215-4216
		10191640	JV971	14033927	211-2497	2358865	P18562
		10226226	599TC24522000	14033942	G27655	2401526	D27094
		10236523	224-2897	14033952	MS15335	2428499	P18562
		1125276	D27094	14042575	216-2502	24504031	72010
		1185502	2051	14044935	MS15306	24571185	2051
		1189367	2051	14044976	MS15335	2494737	P18562
		1189373	2051	14045009	601-8027	25013977	OC 114
		1192736	D27094	14045106	224-2185	25014831	OC 114
		1199766	D27094	14050718	41296	25042562	LX 2921
		12510752	41718	14053377	224-2185	25055052	KL 676
		12512988	599TC24521000	14053378	224-2185	25121792	KL 676
		12515808	599TC24522000	14057146	C30811	25160561	OC 114
		12516165	HS3678	14057232	215-4216	25168081	LX 2941
		12517006	CB-1286P	14061687	3678	25168082	LX 2934
		12521577	599TC24522000	14066246	3678	25171792	KL 676
		12522149	599TC24522000	14066308	229-1849	25173426	LX 2941
		12523753	MS15306A	14067685	HS3678	25313348	LX 2562
		12530336	599TC21102000	14079401	224-2185	25945274	LX 3211
		12531704	MS15306	14079426	601-8027	327739	J17829
		12532429	599TC21010000	14090908	2051	344690	2051
		12550059	224-2897	1453978	D27094	345660	P18562
		12550061	224-2897	15106528	LX 2921	3536966	B45828
		12551502	D25932	15126137	F31897	3680995	J17829
		12551507	C31273	15522434	F7507	3705042	D27094
		12551689	C31427	15537018	41296	3705044	D25932
		12552738	599TC21101000	15537018	41549	3732225	72010
		12553106	C31273	15633464	MS15335	3764389	B45229
		12553488	K31288	15633464	MS15335A	3818758	P27940
		12554979	4021	15659727	F7507	3835333	B45229
		12556031	4021	15687225	F7507	3844178	P27940

GMC	MAHLE CLEVITE	GMC	MAHLE CLEVITE	GMC	MAHLE CLEVITE	HOLSET	MAHLE CLEVITE
385938	JV749	89060468	OC 114	97367014	F31912	3531696	286TC16022000
3860095	46467	89060500	OC 114	97368325	G31917	3531810	286TC16022000
3921989	2051	9138923	72224	97375503	G31906	3539911	286TC21003000
3930800	TS27920Y	9339 37	D27094	97378102	54583	3592767	286TC21002000
3947770	216-5118A	94013304	K31904	97378103	54584	3596393	286TC25004000
3947880	216-5145	97188663	C32062	97378104	54585	4036239	286TC25004000
3977387	P28128	97188684	MS19398	97386951	42160	4043600	286TC25042000
3979618	TS27275	97188685	F31903	97389257	54584	4089673	286TC25042000
3980095	46467	97209341	67775	97729796	CS54580		
3984820	P27857	97209342	67777	97729798	HS54580		
3993593	P27857	97212994	B45974	97729991	G31918		
3998513	P27940	97219318	223-3659	9776705	D27094		
412270	D27094	97223686	C31900	98002804	MS19398		
513975	2051	97225507	211-4264	98030628	54580		
5233465	213-1725	97225508	211-4265	98030629	54581		
5233605	213-1725	97226116 OLD PART	224-3452	98030630	54582		
5233645	213-1725	97226117	224-3451	98030631	54583		
5234000	213-1725	97240416	215-4350	980306317	54583		
5234295	213-1725	97250336	MS-2218P	98030632	54584		
5234435	213-1725	97250338	CB-1805P	98030633	54585		
5234464	213-1725	97250410	CB-1805P	98040128	54598		
5234470	213-1725	97250411	MS-2218P	98040130	54597		
5234530	213-1725	97250412	MS-2218P	98045055	54580		
5234625	213-1725	97288794	F31902	98045056	54581		
5234680	213-1725	97288795	F31901	98045057	54582		
5234755	213-1725	97300793	C31889	98045058	54583		
5234905	213-1725	97302368	G31916	98045059	54584		
52473340	LA 716S	97303655	F31909	98045060	54585		
52485513	LA 716S	97303656	F31913	98053991	G31907		
526895	72010	97303755 NEW PART	224-3452	98054443	F39394		
537354	D27094	97303756	224-3451	98054444	F32393		
5433533	72010	97306568	G31915	98403365	HS54580A		
546665	72224	97309559	54580	98434773	HS54580A		
555692	D27094	97309560	54581	B226256	2051		
559563	2051	97309561	54582	D33196	72010		
5660192	72224	97309562	54583	ER8250	72010		
574113	D27094	97310851	GS33504	Z1420	72224		
585466	D27094	97318441	B32478				
606668	H36080	97318478	F31911				
6259064	P18562	97328807	F32423				
6263794	216-2502	97333724	54582				
6273941	P18562	97333727	54585				
6273951	P18562	97363723	G31914				
72449	P18562	97365040	G31905				
838263	D27094	97365201	G31908				
88891734	F7507	97367013	F31910				

IHC	MAHLE CLEVITE	IHC	MAHLE CLEVITE	MANN & HUMMEL	MAHLE CLEVITE	NAVISTAR	MAHLE CLEVITE
107052	H36080	317365C11	212-1094	MA1003	LX 2562	1240388H1	OC 1001
111024R1	B45229	321221C	P18562	MA1020	LX 2941	1820642C91	144TC24008000
135463R1	72010	321221C1	P18562	MA1035	LX 2934	1820642C92	144TC24010000
1804000	223-3583	352219R1	72010	MA1035	LX 2941	1820646C91	144TC24008000
1804000	223-3652	389334C1	P18562	MA1060	LX 2921	1820646C92	144TC24010000
1804009C91	JV1019	421732C91	46467	MA1071	LX 2947	1822765C91	144TC24010000
1804010C91	JV547	5010100R92	K31802	MA1075	LX 2928	1822775C92	014TC26158000
1804025C1	CB-1327P	5010118R91	K31803	MA1156	LX 2933	1822776C91	144TC24010000
1804052C1	VS39471	F4TZ6E078-BBB	CS54204A	MA1214	LX 2918	1838136C2	B45952
1804136C2	K27163	F6TE6E078-BB	CS54204A	MC1000-2	LA 716S	1840777C91	G31817
1804330-C2	211-2561			MF1000	KL 676	1848254C3	B32256
1804330C1	211-2561			ML1011	OC 114	1848255C3	B32255
1804353C1	213-1725			ML1023	OC 1001	1855240C2	MS19312
1804420C91	B45560			ML1034	OX 783	991712C91	144TC24010000
1804449	229-1872			W936/5	OC 114		
1804449C91	229-1872						
1804468C1	211-2562						
1804475	SH-1092S						
1805055C1	MS15369						
1805072C91	229-1872						
1805249C1	218-7920						
1805389C2	MS15968						
1805389C3	MS15968						
1805407C1	217-3450						
1805917C1	211-2562						
1809057C2	5869G						
1809417C91	214-1131						
1811191-C3	211-2562						
1812301	CB-1633P						
1813154C1	224-2908						
1813171C91	41548						
1816562C1	224-2908						
1816674	224-2908						
1820154C2-H	224-3163						
1823452	211-4080						
1823453	211-4079						
1830949	S41768						
1834657C1	223-3671						
1839620C4	F31804						
1840463C2	54450						
1873196C95	54657						
223717-R11	212-1385						
223717R11	212-1094						
259099R1	72010						
3132869R1	72010						
317365	212-1385						

PUROLATOR	MAHLE CLEVITE	SEALED POWER	MAHLE CLEVITE	SEALED POWER	MAHLE CLEVITE	WIX FILTERS	MAHLE CLEVITE
A25485	LX 2928	10297KX	41296	7429M	MS-2218P	24805	LA 716S
A34852	LX 2921	10297KX	41549	7440M	MS-2223P	33585XE	KX 357
A45090	LX 2941	10514KX	S41518	7440M	MS-2269P	42487	LX 2562
A45091	LX 2934	10521KX	41548	8-3810CP	CB-1327P	46144	LX 2921
A45512	LX 2947	1467M	SH-1092S	8-3810CPA	CB-1327P	46272	LX 2933
A55378	LX 2933	1496M	SH-1366S	8-3860P	CB-1286P	46390	LX 2569
A55565	LX 2918	1885M	SH-1092S	8-4995P	CB-1805P	46441	LX 2934
F56039	KX 357	1899M	SH-1996S	CS-770	229-1849	46441	LX 2941
L10343	OC 239	19468K	41296	CS-771	229-1872	46728	LX 2928
L45335	OC 1001	222-181	9-181	E468K	41296	46807	LX 2918
		224-4143H	601-2016	E468K	41549	46930	LX 3069
		224-41999	601-1957	E509K	41548	49062	LX 2947
		224-43424	601-2016	E623KC	S41518	51061	OC 114
		224-43424	601-8027	E626K	41718	51069	OC 114
		245-16691	218-7920	E651K	41768	51788	OC 114
		245-19371	218-7921	H587CP	224-2185	51839	OC 239
		2451669E1	218-7920	H587P	224-2185	57312	OX 783
		245193723	218-7921	H651CP	224-2908	57620	OC 1001
		260-1315	95-3131VR	HT-2104	213-1725		
		260-1527	95-3466VR	KT3-181S	9-3074		
		260-1622	95-3461VR	KT3-181SA	9-3097		
		260-1673	95-3299VR	N23300	46467		
		260-2507	GS33193	R1119	214-1131		
		260-4029	MS15968	RC-157S	216-2502		
		2745PN	224-2908	RC157	216-2502		
		2773PNA	224-2897	RP-3342	215-4216		
		381-8057	219-9613	RP-3345	215-4343		
		3810CP	CB-1327P	RP3238	215-4216		
		3810CPA	CB-1327P	V-2287	211-2497		
		3810CPA	CB-1633P	V-2302	211-2562		
		3814Y20	223-3583	V-2303	211-2561		
		3814YA20	223-3652	V-4491X	211-4090		
		3860P	CB-1286P	V-4494	211-4079		
		3864Y20	223-3576	V-4495	211-4080		
		3864YA20	223-3576	V2049X	211-2562		
		4-4205CP	CB-1413P	VG-804	217-3450		
		4205CP	CB-1413P	VK-115	216-5117A		
		4206DR	SH-1404	VK-138	216-5144A		
		4207DR	SH-1981	VK115R	216-5118A		
		4996F	TW-610S	VK138R	216-5145		
		5020P	CB-1814P	VS-693	212-1094		
		5110M	MS-1596P	VS-820	212-1310		
		6-4205CP	CB-1413P	VS584	212-1094		
		7216M	MS-1717P				
		7325M	MS-2034P				
		7370M	MS-2091P				

COMPETITOR NO.	COMPETITOR	MAHLE CLEVITE	COMP NO.	COMPETITOR	MAHLE CLEVITE
03536966	GMC	B45828	12551507	GMC	C31273
10108682	GMC	C31273	12551689	GMC	C31427
10114141	GMC	D27094	12552738	GMC	599TC21101000
10137486	GMC	B26454	12553106	GMC	C31273
10137488	GMC	C30677	12553488	GMC	K31288
10137489	GMC	C30811	12554979	GMC	4021
10137492	GMC	K27395	12556031	GMC	4021
10137537	GMC	MS16316	12556124	GMC	599TC21102000
10149663	GMC	211-4090	12564768	GMC	601-2091
10154642	GMC	3678	1289450	GMC	D27094
10154652	GMC	599TC24521000	1316 864	CHRYSLER	72010
10183934	GMC	599TC24522000	1319894	GMC	D27094
10183937	GMC	224-2897	13391	FEL-PRO	P27940
10191427	GMC	G31327	135463R1	IHC	72010
10191430	GMC	G27655	1389969	GMC	2051
10191640	GMC	JV971	14022642	GMC	229-1849
10226226	GMC	599TC24522000	14022647	GMC	9-181
10236523	GMC	224-2897	14022651	GMC	B26454
10297KX	SEALED POWER	41549	14024209	GMC	K27395
10514KX	SEALED POWER	S41518	14025512	GMC	212-1310
10521KX	SEALED POWER	41548	14025519	GMC	3678
107052	IHC	H36080	14025528	GMC	223-3576
111024R1	IHC	B45229	14028916	GMC	C24125
1125276	GMC	D27094	14028939	GMC	JV749
11853	FEL-PRO	P18562	14028951	GMC	C30677
1185502	GMC	2051	14033550	GMC	B45229
1189367	GMC	2051	14033927	GMC	211-2497
1189373	GMC	2051	14033942	GMC	G27655
1192736	GMC	D27094	14033952	GMC	MS15335
1199766	GMC	D27094	14042575	GMC	216-2502
1240388H1	NAVISTAR	OC 1001	14044935	GMC	MS15306
12510752	GMC	41718	14044976	GMC	MS15335
12512988	GMC	599TC24521000	14045009	GMC	601-8027
12515808	GMC	599TC24522000	14045106	GMC	224-2185
12516165	GMC	HS3678	14050718	GMC	41296
12517006	GMC	CB-1286P	14053377	GMC	224-2185
12521577	GMC	599TC24522000	14053378	GMC	224-2185
12522149	GMC	599TC24522000	14057146	GMC	C30811
12523753	GMC	MS15306A	14057232	GMC	215-4216
12530336	GMC	599TC21102000	14061687	GMC	3678
12531704	GMC	MS15306	14066246	GMC	3678
12532429	GMC	599TC21010000	14066308	GMC	229-1849
12550059	GMC	224-2897	14067685	GMC	HS3678
12550061	GMC	224-2897	1407 163	CHRYSLER	72010
12551502	GMC	D25932	14079401	GMC	224-2185

COMP NO.	COMPETITOR	MAHLE CLEVITE	COMP NO.	COMPETITOR	MAHLE CLEVITE
14079426	GMC	601-8027	1811191-C3	IHC	211-2562
14090908	GMC	2051	1812301	IHC	CB-1633P
1453978	GMC	D27094	1813154C1	IHC	224-2908
1467M	SEALED POWER	SH-1092S	1813171C91	IHC	41548
1496M	SEALED POWER	SH-1366S	1816562C1	IHC	224-2908
15106528	GMC	LX 2921	1816674	IHC	224-2908
15126137	GMC	F31897	1820154C2-H	IHC	224-3163
15522434	GMC	F7507	1820642C91	NAVISTAR	144TC24008000
15537018	GMC	41549	1820642C92	NAVISTAR	144TC24010000
15633464	GMC	MS15335A	1820646C91	NAVISTAR	144TC24008000
15659727	GMC	F7507	1820646C92	NAVISTAR	144TC24010000
15687225	GMC	F7507	1822765C91	NAVISTAR	144TC24010000
15733803	GMC	F7538	1822775C92	NAVISTAR	014TC26158000
15908916	GMC	LX 2562	1822776C91	NAVISTAR	144TC24010000
15954812	GMC	F7566	1823452	IHC	211-4080
15998574	GMC	LX 2941	1823453	IHC	211-4079
166772	CUMMINS	216-5006	1830949	IHC	S41768
1685555	GMC	P18562	1834657C1	IHC	223-3671
170290	BORG WARNER	144TC24010000	1838136C2	NAVISTAR	B45952
170310	BORG WARNER	144TC24008000	1839620C4	IHC	F31804
171076	BORG WARNER	599TC24522000	1840463C2	IHC	54450
18009095	GMC	CB-1286P	1840777C91	NAVISTAR	G31817
1804000	IHC	223-3652	1843285C2	FORD	224-3503
1804009C91	IHC	JV1019	1848254C3	NAVISTAR	B32256
1804010C91	IHC	JV547	1848255C3	NAVISTAR	B32255
1804025C1	IHC	CB-1327P	1855240C2	NAVISTAR	MS19312
1804052C1	IHC	VS39471	1873196C95	IHC	54657
1804136C2	IHC	K27163	1885M	SEALED POWER	SH-1092S
1804330-C2	IHC	211-2561	1899M	SEALED POWER	SH-1996S
1804330C1	IHC	211-2561	19114110	GMC	LX 2562
1804353C1	IHC	213-1725	19468K	SEALED POWER	41296
1804420C91	IHC	B45560	1C3Z-9601-AA	FORD	LX 2928
1804449	IHC	229-1872	1GA 9417	FORD	D27094
1804449C91	IHC	229-1872	20-806	BORG WARNER	72010
1804468C1	IHC	211-2562	2194132	GMC	B45229
1804475	IHC	SH-1092S	222-181	SEALED POWER	9-181
1805055C1	IHC	MS15369	2231 855	CHRYSLER	P18562
1805072C91	IHC	229-1872	223717-R11	IHC	212-1385
1805249C1	IHC	218-7920	223717R11	IHC	212-1094
1805389C2	IHC	MS15968	224-4143H	SEALED POWER	601-2016
1805389C3	IHC	MS15968	224-41999	SEALED POWER	601-1957
1805407C1	IHC	217-3450	224-43424	SEALED POWER	601-8027
1805917C1	IHC	211-2562	226256	GMC	2051
1809057C2	IHC	5869G	227	FEL-PRO	JV8
1809417C91	IHC	214-1131	2282100	GMC	72010



COMP NO.	COMPETITOR	MAHLE CLEVITE	COMP NO.	COMPETITOR	MAHLE CLEVITE
23	BORG WARNER	72224	26271PT1	FEL-PRO	54584
23500139	GMC	JV560	26272PT	FEL-PRO	54581
23500417	GMC	JV560	26272PT1	FEL-PRO	54581
23502552	GMC	B45812	26273PT	FEL-PRO	54585
23502587	GMC	OS32134	26273PT1	FEL-PRO	54585
23503969	GMC	JV1617	26274PT	FEL-PRO	54582
2350994	GMC	215-4216	26274PT1	FEL-PRO	54582
2358865	GMC	P18562	26374PT	FEL-PRO	54450
2401526	GMC	D27094	26375PT	FEL-PRO	54579
2428499	GMC	P18562	2745PN	SEALED POWER	224-2908
245-16691	SEALED POWER	218-7920	2773PNA	SEALED POWER	224-2897
245-19371	SEALED POWER	218-7921	2830704	CUMMINS	54556
24504031	GMC	72010	2830705	CUMMINS	54556A
2451669E1	SEALED POWER	218-7920	2830977	CUMMINS	D32483
245193723	SEALED POWER	218-7921	2831 414	CHRYSLER	H36080
24571185	GMC	2051	2909 288	CHRYSLER	J27966
24805	WIX FILTERS	LA 716S	2952 471	CHRYSLER	P18562
2494737	GMC	P18562	3132869R1	IHC	72010
25013977	GMC	OC 114	317365	IHC	212-1385
25014831	GMC	OC 114	317365C11	IHC	212-1094
25042562	GMC	LX 2921	321221C	IHC	P18562
25055052	GMC	KL 676	321221C1	IHC	P18562
25121792	GMC	KL 676	327739	GMC	J17829
2515 343	CHRYSLER	P18562	3282805	CUMMINS	4068C
25160561	GMC	OC 114	3283000	CUMMINS	4068D
25168081	GMC	LX 2941	3283335	CUMMINS	4068C
25168082	GMC	LX 2934	3283337	CUMMINS	4068D
25171792	GMC	KL 676	3283339	CUMMINS	4068E
25173426	GMC	LX 2941	3283570	CUMMINS	4068C
25313348	GMC	LX 2562	3284623	CUMMINS	PS38801
259099R1	IHC	72010	3287561	CUMMINS	B32484
25945274	GMC	LX 3211	33585XE	WIX FILTERS	KX 357
260-1315	SEALED POWER	95-3131VR	344690	GMC	2051
260-1527	SEALED POWER	95-3466VR	345660	GMC	P18562
260-1622	SEALED POWER	95-3461VR	35193	FEL-PRO	C24550
260-1673	SEALED POWER	95-3299VR	352219R1	IHC	72010
260-2507	SEALED POWER	GS33193	35268	FEL-PRO	K27163
260-4029	SEALED POWER	MS15968	35270	FEL-PRO	C24551
26216PT	FEL-PRO	54557	35271	FEL-PRO	C24125
26218PT	FEL-PRO	54557A	35289	FEL-PRO	C30811
26269PT	FEL-PRO	54583	3531696	HOLSET	286TC16022000
26269PT1	FEL-PRO	54583	3531810	HOLSET	286TC16022000
26270PT	FEL-PRO	54580	35357	FEL-PRO	C30677
26270PT1	FEL-PRO	54580	3536966	GMC	B45828
26271PT	FEL-PRO	54584	3539911	HOLSET	286TC21003000

COMP NO.	COMPETITOR	MAHLE CLEVITE	COMP NO.	COMPETITOR	MAHLE CLEVITE
35525	FEL-PRO	K31420	3802924	CUMMINS	211-4182
35526	FEL-PRO	C31421	3802967	CUMMINS	211-4183
356101	FEL-PRO	C32036	3804355	CUMMINS	48383
35612	FEL-PRO	K31779	3804897	CUMMINS	HS4068
35639	FEL-PRO	C31710	3804899	CUMMINS	48383
35703	FEL-PRO	C31858	3804964	CUMMINS	286TC21003000
35710	FEL-PRO	C31273	381-8057	SEALED POWER	219-9613
35756	FEL-PRO	K31904	3810CP	SEALED POWER	CB-1327P
35757	FEL-PRO	C31900	3810CPA	SEALED POWER	CB-1633P
35758	FEL-PRO	C32062	3814Y20	SEALED POWER	223-3583
35762	FEL-PRO	C31889	3814YA20	SEALED POWER	223-3652
3577 870	CHRYSLER	D27094	3818758	GMC	P27940
35808	FEL-PRO	C31801	3835333	GMC	B45229
35812	FEL-PRO	K31803	3844178	GMC	P27940
3592767	HOLSET	286TC21002000	385938	GMC	JV749
3596393	HOLSET	286TC25004000	3860095	GMC	46467
3634 985	CHRYSLER	P18562	3860P	SEALED POWER	CB-1286P
3680995	GMC	J17829	3864Y20	SEALED POWER	223-3576
3705042	GMC	D27094	3864YA20	SEALED POWER	223-3576
3705044	GMC	D25932	389334C1	IHC	P18562
3732225	GMC	72010	3900276	CUMMINS	212-1800
3764389	GMC	B45229	3900299	CUMMINS	216-4121
3769 935	CHRYSLER	2051	3900709	CUMMINS	48383
3800781	CUMMINS	225-3355	3901085	CUMMINS	223-3644
3800799RX	CUMMINS	286TC21002000	3901097	CUMMINS	B45411A
3802025	CUMMINS	HS4068	3901170	CUMMINS	CB-1413P
3802026	CUMMINS	HS4068	3901306	CUMMINS	SH-1404
3802029	CUMMINS	CS4068	3902002	CUMMINS	MS12435
3802050	CUMMINS	S41518	3903653	CUMMINS	4068C
3802056	CUMMINS	S41518	3904105	CUMMINS	218-3787
3802070	CUMMINS	MS-1717P	3904353	CUMMINS	48383
3802226	CUMMINS	HS4068	3904408	CUMMINS	217-4114
3802230	CUMMINS	S41518	3904409	CUMMINS	217-4115
3802243	CUMMINS	HS4068	3906080	CUMMINS	48383
3802267	CUMMINS	CS4068	3906206	CUMMINS	217-4116
3802363	CUMMINS	HS4068	3906223	CUMMINS	224-3526
3802364	CUMMINS	HS4068A	3906698	CUMMINS	K31420
3802376	CUMMINS	CS4068	3906854	CUMMINS	218-3788
3802391	CUMMINS	286TC16022000	3907057	CUMMINS	4068C
3802394	CUMMINS	229-2443	3908997	CUMMINS	4068C
3802421	CUMMINS	S41518	3909409	CUMMINS	GS33491
3802481	CUMMINS	211-4294	3910810	CUMMINS	214-2194
3802520	CUMMINS	MB-3110A	3910811	CUMMINS	214-2195
3802746	CUMMINS	S41518	3912220	CUMMINS	F10142
3802820	CUMMINS	48383	3914029	CUMMINS	MS12435

COMP NO.	COMPETITOR	MAHLE CLEVITE	COMP NO.	COMPETITOR	MAHLE CLEVITE
3915730	CUMMINS	4068C	3942571	CUMMINS	B45903
3916691	CUMMINS	212-1798	3942572	CUMMINS	B45902
3917357	CUMMINS	4068C	3942755	CUMMINS	8-5506
3917358	CUMMINS	4068C	3942989	CUMMINS	B45903
3918305	CUMMINS	4068C	3943449	CUMMINS	218-3790
3918306	CUMMINS	4068D	3943450	CUMMINS	218-3791
3918307	CUMMINS	4068E	3943626	CUMMINS	214-1182
3921394	CUMMINS	4068C	3945438	CUMMINS	B45902
3921396	CUMMINS	4068D	3945803	CUMMINS	54174
3921640	CUMMINS	B45411A	3945803(.25MM)	CUMMINS	54174A
3921954	CUMMINS	8-5508	3946051	CUMMINS	224-3354
3921989	GMC	2051	3946153	CUMMINS	224-3355
3922488	CUMMINS	214-1184	3946436	CUMMINS	8-5509
3923331	CUMMINS	C31421	3947530	CUMMINS	MS19355
3925031	CUMMINS	213-1782	3947770	GMC	216-5118A
3925175	CUMMINS	211-4294	3947880	GMC	216-5145
3926126	CUMMINS	67857	3949910	CUMMINS	G32479
3926631	CUMMINS	224-3515	3954829	CUMMINS	C31858
3926632	CUMMINS	224-3513	3954875	CUMMINS	54557
3926700	CUMMINS	212-1801	3954876	CUMMINS	54557A
3927063	CUMMINS	GS33493	3955109	CUMMINS	VS50419
3927154	CUMMINS	MS10141	3955339	CUMMINS	MS19741
3928832	CUMMINS	PS38801	3955393	CUMMINS	B45962
3929028	CUMMINS	8-5507	3955394	CUMMINS	B45963
3929734	CUMMINS	229-2440	3957486	CUMMINS	OS32278
3930800	GMC	TS27920Y	3957912	CUMMINS	B45953
3930906	CUMMINS	VS50215S	3958165	CUMMINS	OS32278
3931347	CUMMINS	MS12435	3958644	CUMMINS	54557
3931623	CUMMINS	213-1782	3958645	CUMMINS	54557A
3932453	CUMMINS	212-1799	3958716	CUMMINS	G32481
3935878	CUMMINS	VS50317	3963379	CUMMINS	VS50419
3935892	CUMMINS	230-3057	3965497	CUMMINS	224-3672
3937111	CUMMINS	48383	3966342	CUMMINS	HS54556
3937219	CUMMINS	214-2196	3966343	CUMMINS	HS54556
3937220	CUMMINS	214-2197	3969988	CUMMINS	MS19355
3938152	CUMMINS	MS12435	3970192	CUMMINS	224-3673
3939719	CUMMINS	218-3789	3970518	CUMMINS	S42140
3940059	CUMMINS	SH-1981	3970548	CUMMINS	48384
3940123	CUMMINS	216-5243	3975641	CUMMINS	VS50543
3940734	CUMMINS	211-4183	3977063	CUMMINS	54174B
3940735	CUMMINS	211-4182	3977063(.25MM)	CUMMINS	54174A
3941253	CUMMINS	215-4348	3977063(.50MM)	CUMMINS	54174B
3941476	CUMMINS	223-3644	3977338	CUMMINS	G32463
3942368	CUMMINS	54174	3977387	GMC	P28128
3942567	CUMMINS	229-2441	3977913	CUMMINS	GS33485

COMP NO.	COMPETITOR	MAHLE CLEVITE	COMP NO.	COMPETITOR	MAHLE CLEVITE
3978818	CUMMINS	MB-3110A	4429 097	CHRYSLER	B45411A
3978820	CUMMINS	MB-3110A	4429 353	CHRYSLER	48383
3978822	CUMMINS	MB-3109A	4429 368	CHRYSLER	SH-1404
3979506	CUMMINS	229-2444	4429 698	CHRYSLER	K31420
3979618	GMC	TS27275	4429175AB	CHRYSLER	CB-1413P
3979769	CUMMINS	G32461	4429395	CHRYSLER	OC 1001
3980095	GMC	46467	46144	WIX FILTERS	LX 2921
3984820	GMC	P27857	46272	WIX FILTERS	LX 2933
3993593	GMC	P27857	46390	WIX FILTERS	LX 2569
3998513	GMC	P27940	46441	WIX FILTERS	LX 2941
3C3Z 6505-AA	FORD	211-4277	46728	WIX FILTERS	LX 2928
3C3Z 6507-AA	FORD	211-4276	46807	WIX FILTERS	LX 2918
3C3Z 6571-AA	FORD	B45952	468485-5004S	GARRETT/HONEYWELL	014TC26158000
3C3Z 6700-BA	FORD	67726	46930	WIX FILTERS	LX 3069
3C3Z 6N640-AA	FORD	F31804	4720 996	CHRYSLER	4068C
3C3Z 8255-AA	FORD	C31801	4728 207	CHRYSLER	C31421
3C3Z 8507-AA	FORD	K31802	4728406	CHRYSLER	LX 2933
3C3Z 9229-AA	FORD	GS33442	4797 255	CHRYSLER	C31710
3C3Z 9433-AA	FORD	MS19311	4798 940AB	CHRYSLER	PS38801
3C3Z 9N517-AA	FORD	GS33519	4864442AB	CHRYSLER	LX 2933
3C3Z 9P457-AA	FORD	G31817	4891178	CUMMINS	223-3644
3C3Z-6731-AA	FORD	OX 783	49062	WIX FILTERS	LX 2947
3C3Z-6D309-AA	FORD	MS-2269P	4934074	CUMMINS	218-3792
3C3Z6D309AA	FORD	MS-2223P	4935205	CUMMINS	KX 357
4-4205CP	SEALED POWER	CB-1413P	4937829	CUMMINS	G32480
4025224	CUMMINS	MS-2272P	4942435	CUMMINS	G32480
4036239	HOLSET	286TC25004000	4943533	CUMMINS	G32480
4037002	CUMMINS	286TC25042000	4955352	CUMMINS	MB-3110A
4043600	HOLSET	286TC25042000	4955354	CUMMINS	HS54774-1
405	FEL-PRO	72010	4955355	CUMMINS	CS54774-1
4089172	CUMMINS	HS54557	4955365	CUMMINS	225-3732
4089342	CUMMINS	48384	4955366	CUMMINS	S42140
4089642	CUMMINS	286TC25004000	4992982	CUMMINS	VS50543
4089673	HOLSET	286TC25042000	4996F	SEALED POWER	TW-610S
4089781	CUMMINS	HS54556	4C2Z-9601-AA	FORD	LX 2918
412270	GMC	D27094	4C3Z 6051-EA	FORD	54450
4205CP	SEALED POWER	CB-1413P	4C3Z 6051-EB	FORD	54450
4206DR	SEALED POWER	SH-1404	4C3Z 8507-AA	FORD	K31803
4207DR	SEALED POWER	SH-1981	4C3Z6K682CCRM	FORD	014TC26159100
4217 32C91	CHRYSLER	46467	5003617AA	CHRYSLER	SH-1981
421732C91	IHC	46467	5010100R92	IHC	K31802
42487	WIX FILTERS	LX 2562	5010118R91	IHC	K31803
4429 051	CHRYSLER	S41518	5011 403AA	CHRYSLER	GS33493
4429 057	CHRYSLER	4068C	5011 790AA	CHRYSLER	213-1782
4429 070	CHRYSLER	MS-1717P	5011 876	CHRYSLER	54174

COMP NO.	COMPETITOR	MAHLE CLEVITE	COMP NO.	COMPETITOR	MAHLE CLEVITE
5011 877AA	CHRYSLER	211-4183	5233645	GMC	213-1725
5011 879AA	CHRYSLER	211-4182	5234000	GMC	213-1725
5011 881AA	CHRYSLER	B45903	5234295	GMC	213-1725
5011 892AA	CHRYSLER	215-4348	5234435	GMC	213-1725
5011 933AA	CHRYSLER	HS54174-2	5234464	GMC	213-1725
5011 933AB	CHRYSLER	HS54174-2	5234470	GMC	213-1725
5012 110AA	CHRYSLER	4068C	5234530	GMC	213-1725
5012 290AA	CHRYSLER	48383	5234625	GMC	213-1725
5015 705AA	CHRYSLER	48384	5234680	GMC	213-1725
5016 356AB	CHRYSLER	VS50317	5234755	GMC	213-1725
5016333AA	CHRYSLER	B45902	5234905	GMC	213-1725
5016547AA	CHRYSLER	OC 1001	52473340	GMC	LA 716S
5016547AC	CHRYSLER	OC 1001	52485513	GMC	LA 716S
5017 783AA	CHRYSLER	72010	5264950	CUMMINS	VS50543
5017787AD	CHRYSLER	286TC25004000	5266422	CUMMINS	MS19741
5020P	SEALED POWER	CB-1814P	5266801	CUMMINS	G32480
5029703AA	CHRYSLER	LX 2947	526895	GMC	72010
5083285AA	CHRYSLER	OC 1001	5303 4051AB	CHRYSLER	LX 3069
5086 740AA	CHRYSLER	C31858	53032700AA	CHRYSLER	LX 2947
5086 854AA	CHRYSLER	OS32278	53032700AB	CHRYSLER	LX 2947
5086 859AB	CHRYSLER	54557A	537354	GMC	D27094
5086 861AA	CHRYSLER	B45962	5433533	GMC	72010
5086 862AA	CHRYSLER	B45963	546665	GMC	72224
5088	FEL-PRO	J17829	55054	FEL-PRO	J17829
5093 228AB	CHRYSLER	HS54556	55328	FEL-PRO	J26212
5093 229AA	CHRYSLER	CS54556	55350	FEL-PRO	J17829
5093117AB	CHRYSLER	224-3674	55372	FEL-PRO	H36080
5093118AA	CHRYSLER	224-3672	55375	FEL-PRO	H26207
51061	WIX FILTERS	OC 114	55379	FEL-PRO	H26205
51069	WIX FILTERS	OC 114	55380	FEL-PRO	H26206
5110M	SEALED POWER	MS-1596P	555692	GMC	D27094
5112	FEL-PRO	B45229	559563	GMC	2051
5114 027AA	CHRYSLER	48384	5660192	GMC	72224
5114 418AA	CHRYSLER	VS50419	567 500	CHRYSLER	H36080
5135 789AA	CHRYSLER	MS19741	57312	WIX FILTERS	OX 783
5139059AA	CHRYSLER	224-3673	574113	GMC	D27094
513975	GMC	2051	5750185	FORD	D27094
51788	WIX FILTERS	OC 114	57620	WIX FILTERS	OC 1001
5179 091AA	CHRYSLER	VS50543	585466	GMC	D27094
5179 091AB	CHRYSLER	VS50543	6-4205CP	SEALED POWER	CB-1413P
5182	FEL-PRO	D25932	6031 196	CHRYSLER	72010
51839	WIX FILTERS	OC 239	6032 145	CHRYSLER	2051
5231	FEL-PRO	D27094	60555	FEL-PRO	G27655
5233465	GMC	213-1725	606668	GMC	H36080
5233605	GMC	213-1725	60679	FEL-PRO	F14627

COMP NO.	COMPETITOR	MAHLE CLEVITE	COMP NO.	COMPETITOR	MAHLE CLEVITE
60718	FEL-PRO	F7507	8-3810CP	SEALED POWER	CB-1327P
60928	FEL-PRO	F10142	8-3810CPA	SEALED POWER	CB-1327P
6095	FEL-PRO	P18562	8-3860P	SEALED POWER	CB-1286P
61379	FEL-PRO	F31903	8-4995P	SEALED POWER	CB-1805P
61457	FEL-PRO	F31897	8350 6402	CHRYSLER	C31421
61478	FEL-PRO	G31817	8350 7220	CHRYSLER	PS38801
61559	FEL-PRO	F7538	838263	GMC	D27094
6259064	GMC	P18562	8726PT	FEL-PRO	3678
6263794	GMC	216-2502	88891734	GMC	F7507
6273941	GMC	P18562	89060468	GMC	OC 114
6273951	GMC	P18562	89060500	GMC	OC 114
63087	CHRYSLER	72010	8C3Z 6065-A	FORD	GS33495
6579	FEL-PRO	D27094	8C3Z 6700-A	FORD	67831
6800 1914AA	CHRYSLER	KX 357	8C3Z 6N640-A	FORD	B32256
6800 1914AB	CHRYSLER	KX 357	8C3Z 6N640-B	FORD	B32255
6800 5184AA	CHRYSLER	G32461	8C3Z 8255-A	FORD	C32243
6800 5276AA	CHRYSLER	CS54774-1	8C3Z 8507-B	FORD	K32242
6800 5334AA	CHRYSLER	G32463	8C3Z 9229-A	FORD	GS33555
68005 262AA	CHRYSLER	HS54774-1	8C3Z 9J559-A	FORD	G31817
68005 465AA	CHRYSLER	G32481	8C3Z-6211-A	FORD	CB-1869P
68027 035AA	CHRYSLER	G32479	8C3Z-6565-B	FORD	215-4354
68038 089AA	CHRYSLER	G32480	9016PT	FEL-PRO	5869G
68061A	CUMMINS	72010	9047PT	FEL-PRO	5869G
68642	CUMMINS	72224	9128PT	FEL-PRO	3678T
6C2Z-9601-A	FORD	LX 2918	9138923	GMC	72224
6C3Z 9448-A	FORD	MS19312	9239PT	FEL-PRO	54204
70150	FEL-PRO	B26454	9332PT	FEL-PRO	4068C
70781	FEL-PRO	G31327	9339 37	GMC	D27094
70820	FEL-PRO	B45828	94013304	GMC	K31904
70822	FEL-PRO	2051	9521PT	FEL-PRO	4021T
71219	FEL-PRO	F31901	9522PT	FEL-PRO	54174
71220	FEL-PRO	F31902	9523PT	FEL-PRO	4068E
71248	FEL-PRO	F31909	9534PT	FEL-PRO	4068D
71249	FEL-PRO	F31910	9701PT	FEL-PRO	4021
71250	FEL-PRO	F31911	97188663	GMC	C32062
71251	FEL-PRO	F31912	97188684	GMC	MS19398
7216M	SEALED POWER	MS-1717P	97188685	GMC	F31903
72449	GMC	P18562	97209341	GMC	67775
72556	FEL-PRO	D27094	97209342	GMC	67777
7325M	SEALED POWER	MS-2034P	97212994	GMC	B45974
7370M	SEALED POWER	MS-2091P	97219318	GMC	223-3659
7429M	SEALED POWER	MS-2218P	97223686	GMC	C31900
7440M	SEALED POWER	MS-2269P	97225507	GMC	211-4264
7EQ 7166	FORD	H36080	97225508	GMC	211-4265
7RA 9417	FORD	D27094	97226116 OLD PART	GMC	224-3452

COMP NO.	COMPETITOR	MAHLE CLEVITE	COMP NO.	COMPETITOR	MAHLE CLEVITE
97226117	GMC	224-3451	98030630	GMC	54582
97240416	GMC	215-4350	98030631	GMC	54583
97250336	GMC	MS-2218P	980306317	GMC	54583
97250338	GMC	CB-1805P	98030632	GMC	54584
97250410	GMC	CB-1805P	98030633	GMC	54585
97250411	GMC	MS-2218P	98040128	GMC	54598
97250412	GMC	MS-2218P	98040130	GMC	54597
97288794	GMC	F31902	98045055	GMC	54580
97288795	GMC	F31901	98045056	GMC	54581
97300793	GMC	C31889	98045057	GMC	54582
97302368	GMC	G31916	98045058	GMC	54583
97303655	GMC	F31909	98045059	GMC	54584
97303656	GMC	F31913	98045060	GMC	54585
97303755 NEW PART	GMC	224-3452	98053991	GMC	G31907
97303756	GMC	224-3451	98054443	GMC	F39394
97306568	GMC	G31915	98054444	GMC	F32393
97309559	GMC	54580	98403365	GMC	HS54580A
97309560	GMC	54581	98434773	GMC	HS54580A
97309561	GMC	54582	991712C91	NAVISTAR	144TC24010000
97309562	GMC	54583	A1236C	AC DELCO	LX 2921
97310851	GMC	GS33504	A1300C	AC DELCO	LX 2941
97318441	GMC	B32478	A1301C	AC DELCO	LX 2934
97318478	GMC	F31911	A1622C	AC DELCO	LX 2921
97328807	GMC	F32423	A25485	PUROLATOR	LX 2928
97333724	GMC	54582	A34852	PUROLATOR	LX 2921
97333727	GMC	54585	A45090	PUROLATOR	LX 2941
97363723	GMC	G31914	A45091	PUROLATOR	LX 2934
97365040	GMC	G31905	A45512	PUROLATOR	LX 2947
97365201	GMC	G31908	A55378	PUROLATOR	LX 2933
97367013	GMC	F31910	A55565	PUROLATOR	LX 2918
97367014	GMC	F31912	A8TZ 9417-A	FORD	D27094
97368325	GMC	G31917	A977C	AC DELCO	LX 2928
97375503	GMC	G31906	B201S	BALDWIN	OC 239
97378102	GMC	54583	B226256	GMC	2051
97378103	GMC	54584	B5A 9417-A	FORD	D27094
97378104	GMC	54585	B7181	BALDWIN	OC 1001
97386951	GMC	S42160	B8A 9417-A	FORD	D27094
97389257	GMC	54584	B9TT7166C	FORD	H36080
97729796	GMC	CS54580	BB 7166	FORD	H36080
97729798	GMC	HS54580	BC3Z 8590-K	FORD	C32265
97729991	GMC	G31918	BC3Z 8590-PA	FORD	C32248
9776705	GMC	D27094	BC3Z-6108-A	FORD	S42168
98002804	GMC	MS19398	BS13927	FEL-PRO	JV749
98030628	GMC	54580	BS15868-1	FEL-PRO	JV547
98030629	GMC	54581	BS40402	FEL-PRO	JV749

COMP NO.	COMPETITOR	MAHLE CLEVITE	COMP NO.	COMPETITOR	MAHLE CLEVITE
BS40436	FEL-PRO	67628	CS26374	FEL-PRO	CS54450
BS40529	FEL-PRO	JV560	CS8726-2	FEL-PRO	CS3678A
BS40604	FEL-PRO	JV1617	CS87261	FEL-PRO	CS3678B
BS40633	FEL-PRO	JV1622	CS8891	FEL-PRO	CS5869
BS40650	FEL-PRO	JV1622	CS9239	FEL-PRO	CS54204A
BS40683	FEL-PRO	JV1691	CS9239-1	FEL-PRO	CS54204A
BS40692	FEL-PRO	JV1690	CS9522	FEL-PRO	CS54174
BSZ3327	CHRYSLER	JV749	D33196	GMC	72010
C0DE 9417-A	FORD	D27094	D4FZ 9417-A	FORD	D27094
C0SE 9417-A	FORD	D27094	D4TZ 7153-B	FORD	TS27275
C1SZ 9417-A	FORD	D27094	D5TZ 9417-A	FORD	D27094
C1TT 4036-B	FORD	P18562	D5UA 1190-A	FORD	46467
C1TZ 4035-B	FORD	P18562	D5UZ 1190-A	FORD	46467
C1TZ 4036-A	FORD	P18562	D7TA 1144-BA	FORD	J26212
C3AE 9417-B	FORD	D27094	D8TZ 1001-A	FORD	J26212
C3AZ 9417-B	FORD	D27094	E0HZ-6731-A	FORD	OC 114
C3AZ 9417-C	FORD	D27094	E0TA 1144-AA	FORD	J26212
C3DE 9417-A	FORD	D27094	E0TA 5B266-AA	FORD	F14627
C3DZ 9417-A	FORD	D27094	E0TZ 1001-A	FORD	J26212
C3RZ-6731-A	FORD	OC 114	E0TZ 1190-B	FORD	46467
C4TZ 6571-B	FORD	B45229	E0TZ 5B266-A	FORD	F14627
C4TZ 6571-G	FORD	B45229	E2AE 9417-AA	FORD	D27094
C5TZ 4036-A	FORD	P18562	E2AZ 9417-A	FORD	D27094
C5TZ 4036-B	FORD	P18562	E3TZ 6207-A	FORD	223-3583
C5TZ 6571-A	FORD	B45229	E3TZ 6250-B	FORD	229-1872
C5TZ 6571-B	FORD	B45229	E3TZ 6500-A	FORD	213-1725
C9ZZ 6518-A	FORD	216-5118A	E3TZ 6505-D	FORD	211-2562
CA10162	FRAM	LX 2918	E3TZ 6507-D	FORD	211-2561
CA10261	FRAM	LX 3069	E3TZ 6510-B	FORD	217-3450
CA3914	FRAM	LX 2921	E3TZ 6513-B	FORD	212-1094
CA7614	FRAM	LX 2569	E3TZ 6571-A	FORD	B45560
CA7640	FRAM	LX 2933	E3TZ 6584-A	FORD	VS39471
CA8037	FRAM	LX 2934	E3TZ 6584-F	FORD	VS39471
CA8038	FRAM	LX 2941	E3TZ 6700-A	FORD	JV1019
CA8755	FRAM	LX 2562	E3TZ 6701-A	FORD	JV547
CA9400	FRAM	LX 2928	E3TZ 6734-A	FORD	2051
CA9589	FRAM	LX 2947	E3TZ 8255-A	FORD	C24551
CAF1708	CHAMP	LA 716S	E3TZ 8255-B	FORD	C24550
CF104	AC DELCO	LA 716S	E3TZ 8507-A	FORD	K27163
CF8791	FRAM	LA 716S	E3TZ 9417-A	FORD	D27094
CH9549	FRAM	OX 783	E3TZ 9439-B	FORD	MS15968
CS-770	SEALED POWER	229-1849	E3TZ6057B	FORD	218-7920
CS-771	SEALED POWER	229-1872	E43Z 9417-A	FORD	D27094
CS10145	FRAM	KX 357	E44360	CUMMINS	72010
CS26269	FEL-PRO	CS54580	E468K	SEALED POWER	41549



COMP NO.	COMPETITOR	MAHLE CLEVITE	COMP NO.	COMPETITOR	MAHLE CLEVITE
E4TZ 6513-C	FORD	212-1094	F4TZ 6571-A	FORD	B45897
E509K	SEALED POWER	41548	F4TZ 6584-A	FORD	VS50328
E5TZ 5C250-A	FORD	F14627	F4TZ 6700-A	FORD	67631
E5TZ 5C250-E	FORD	F14627	F4TZ 6A251-A	FORD	SH-1092S
E623KC	SEALED POWER	S41518	F4TZ 6E078-BBB	FORD	CS54204A
E626K	SEALED POWER	41718	F4TZ 8255-A	FORD	C32036
E651K	SEALED POWER	41768	F4TZ 8507-A	FORD	K31779
E6TZ 5C250-A	FORD	F14627	F4TZ 9448-A	FORD	MS16314
E6TZ 6A527-A	FORD	214-1179	F4TZ6505-A	FORD	211-4080
E7TZ6564B	FORD	214-1131	F4TZ6505-C	FORD	211-4080
E8TZ 6051-B	FORD	5869G	F4TZ6507-A	FORD	211-4079
E8TZ 6079-A	FORD	HS5869	F4TZ6507-B	FORD	211-4079
E8TZ 6505-B	FORD	211-2562	F4TZ6E078-BBB	IHC	CS54204A
E8TZ 6517-A	FORD	B45662	F56039	PUROLATOR	KX 357
E8TZ 9439-A	FORD	MS15968	F5TZ 6148-A	FORD	41768
E9TZ 6079-B	FORD	HS5869	F5UZ-9601-A	FORD	LX 2569
E9TZ 6102-A	FORD	224-2908	F6TE6E078-BB	IHC	CS54204A
E9TZ 6148-A	FORD	41548	F6TZ 6148-BC	FORD	41768
E9TZ 6148-E	FORD	41548	F6TZ 6E078-BB	FORD	CS54204A
E9TZ 6500-A	FORD	213-1725	F6TZ6K682ARM	FORD	014TC26158000
E9TZ 8255-A	FORD	C24550	F7TZ 6102-AAA	FORD	224-3163
E9TZ 9439-A	FORD	MS15968	F7TZ 6148-AAA	FORD	41768
EAA 6571-A	FORD	B45229	F7TZ6051AAA	FORD	54204
ECG 9417-A	FORD	D27094	F81Z 6584-AA	FORD	VS50329
ER8250	GMC	72010	FP-1804353	F.P. DIESEL	213-1725
ES119	CUMMINS	72010	FP-1816674	F.P. DIESEL	224-2908
ES72161	FEL-PRO	GS33379	FP-1825540	F.P. DIESEL	212-1385
ES72193	FEL-PRO	GS33493	FP-3802376	F.P. DIESEL	CS4068
ES72199	FEL-PRO	GS33504	FP-3802561-WP	F.P. DIESEL	224-3515
ES72229	FEL-PRO	GS33494	FP-3804897	F.P. DIESEL	HS4068
ES72242	FEL-PRO	GS33519	FP-3922571-WP	F.P. DIESEL	224-3520
ES72245	FEL-PRO	GS33593	FP-3925031	F.P. DIESEL	213-1782
ES72248	FEL-PRO	GS33593	FP-3931623	F.P. DIESEL	213-1782
ES72724	FEL-PRO	GS33193	FP-3939859	F.P. DIESEL	CB-1873AP
F2TZ 6102-A	FORD	224-2908	FP-3958675	F.P. DIESEL	224-3674
F3TZ 6051-A	FORD	5869G	FP-3965497	F.P. DIESEL	224-3672
F3TZ 6148-C	FORD	41548	FP-3967060	F.P. DIESEL	CB-1873AP
F4TZ 6020-BB	FORD	JV5059	FP-3970192	F.P. DIESEL	224-3673
F4TZ 6051-A	FORD	54204	FP-4089259	F.P. DIESEL	224-3672
F4TZ 6065-A	FORD	GS33379	FP-4089260	F.P. DIESEL	224-3674
F4TZ 6148-A	FORD	41768	FP-4089669	F.P. DIESEL	224-3673
F4TZ 6207-A	FORD	223-3652	FP-4893693	F.P. DIESEL	CB-1873AP
F4TZ 6211-A	FORD	CB-1633P	FP-PK0781	F.P. DIESEL	225-3355
F4TZ 6518-A	FORD	216-5006	FP-PK2571	F.P. DIESEL	225-3520
F4TZ 6565-A	FORD	215-4343	FP-PK6631	F.P. DIESEL	224-3515

COMP NO.	COMPETITOR	MAHLE CLEVITE	COMP NO.	COMPETITOR	MAHLE CLEVITE
FP1802200	F.P. DIESEL	CB-1327P	FP3946153	F.P. DIESEL	224-3355
FP1804000	F.P. DIESEL	223-3583	FP3955393	F.P. DIESEL	B45962
FP1804009	F.P. DIESEL	CS5869	FP3955394	F.P. DIESEL	B45963
FP1805407	F.P. DIESEL	217-3450	FP3958165	F.P. DIESEL	OS32278
FP1809057	F.P. DIESEL	5869G	FP3977063	F.P. DIESEL	54174
FP1812301	F.P. DIESEL	CB-1633P	FP3977338	F.P. DIESEL	G32463
FP1812376	F.P. DIESEL	67631	FP3979769	F.P. DIESEL	G32461
FP1816562	F.P. DIESEL	224-2908	FP4089342	F.P. DIESEL	48384
FP1823452	F.P. DIESEL	211-4080	FP4955354	F.P. DIESEL	HS54774-1
FP1823453	F.P. DIESEL	211-4079	FP4955355	F.P. DIESEL	CS54774-1
FP1830949	F.P. DIESEL	S41768	FP4955365	F.P. DIESEL	225-3732
FP2830977	F.P. DIESEL	D32483	FP6735K23001	F.P. DIESEL	48384
FP3283337	F.P. DIESEL	4068D	FPZ294	CHRYSLER	D27094
FP3283339	F.P. DIESEL	4068E	FPZ295	CHRYSLER	D25932
FP3283570	F.P. DIESEL	4068C	FPZ3019	CHRYSLER	D27094
FP3284623	F.P. DIESEL	PS38801	G3727	FRAM	KL 676
FP3800781	F.P. DIESEL	224-3355	GF833	AC DELCO	KX 357
FP3800838	F.P. DIESEL	224-3354	H587CP	SEALED POWER	224-2185
FP3802050	F.P. DIESEL	S41518	H587P	SEALED POWER	224-2185
FP3802070	F.P. DIESEL	MS-1717P	H651CP	SEALED POWER	224-2908
FP3802230	F.P. DIESEL	S41518	HL101	AC DELCO	213-1725
FP3802245	F.P. DIESEL	HS4068B	HL82	AC DELCO	213-1725
FP3802364	F.P. DIESEL	HS4068A	HL84A	AC DELCO	213-1725
FP3802421	F.P. DIESEL	S41518	HL86	AC DELCO	213-1725
FP3802562WP	F.P. DIESEL	224-3513	HL86A	AC DELCO	213-1725
FP3802711	F.P. DIESEL	225-3523	HL86B	AC DELCO	213-1725
FP3802820	F.P. DIESEL	JV5076	HL86C	AC DELCO	213-1725
FP3900709	F.P. DIESEL	48383	HL97A	AC DELCO	213-1725
FP3901085	F.P. DIESEL	223-3644	HP4	FRAM	OC 114
FP3901097	F.P. DIESEL	B45411A	HS26218PT	FEL-PRO	HS54557
FP3901306	F.P. DIESEL	SH-1404	HS9016PT	FEL-PRO	HS5869
FP3904353	F.P. DIESEL	48383	HS9047PT	FEL-PRO	HS5869
FP3906223WP	F.P. DIESEL	224-3526	HS9239PT	FEL-PRO	HS54204A
FP3906698	F.P. DIESEL	K31420	HS9522PT	FEL-PRO	HS54174-2
FP3907156WP	F.P. DIESEL	224-3523	HSU26269	FEL-PRO	HS54580
FP3907163WP	F.P. DIESEL	224-3525	HSU262691	FEL-PRO	HS54580A
FP3912220	F.P. DIESEL	F10142	HSU8726	FEL-PRO	HS3678
FP3914029	F.P. DIESEL	MS12435	HSU8726-1	FEL-PRO	HS3678
FP3926126	F.P. DIESEL	67857	HT-2104	SEALED POWER	213-1725
FP3926632	F.P. DIESEL	224-3513	KS2344	FEL-PRO	FS5869
FP3928832	F.P. DIESEL	PS38801	KT3-181S	SEALED POWER	9-3074
FP3931347	F.P. DIESEL	MS12435	KT3-181SA	SEALED POWER	9-3097
FP3939859	F.P. DIESEL	CB-1413P	L10343	PUROLATOR	OC 239
FP3940059	F.P. DIESEL	SH-1981	L45335	PUROLATOR	OC 1001
FP3946051	F.P. DIESEL	224-3354	L9800F	CHAMP	KX 357

COMP NO.	COMPETITOR	MAHLE CLEVITE	COMP NO.	COMPETITOR	MAHLE CLEVITE
MA1003	MANN & HUMMEL	LX 2562	PF454	AC DELCO	OC 114
MA1020	MANN & HUMMEL	LX 2941	PH13	FRAM	OC 114
MA1035	MANN & HUMMEL	LX 2941	PH3976A	FRAM	OC 1001
MA1060	MANN & HUMMEL	LX 2921	PH5	FRAM	OC 114
MA1071	MANN & HUMMEL	LX 2947	PS50397R	FEL-PRO	PS38801
MA1075	MANN & HUMMEL	LX 2928	R1119	SEALED POWER	214-1131
MA1156	MANN & HUMMEL	LX 2933	RC-157S	SEALED POWER	216-2502
MA1214	MANN & HUMMEL	LX 2918	RC157	SEALED POWER	216-2502
MC1000-2	MANN & HUMMEL	LA 716S	RDS11853	FEL-PRO	P18562
MF1000	MANN & HUMMEL	KL 676	RDS13374	FEL-PRO	P27940
ML1011	MANN & HUMMEL	OC 114	RDS13391	FEL-PRO	P27940
ML1023	MANN & HUMMEL	OC 1001	RDS13410	FEL-PRO	P27857TC
ML1034	MANN & HUMMEL	OX 783	RDS55028-1	FEL-PRO	P27857
MS90176-1	FEL-PRO	MS16316	RDS55063	FEL-PRO	P28128
MS91242	FEL-PRO	MS15369	RDS55075	FEL-PRO	P27990
MS91585	FEL-PRO	MS15306	RDS55341	FEL-PRO	P27608TC
MS91586	FEL-PRO	MS15335	RDS55387	FEL-PRO	P29139TC
MS91587	FEL-PRO	MS15336	RDS55394	FEL-PRO	P38155TC
MS92089	FEL-PRO	MS10141	RDS55447	FEL-PRO	P38163TC
MS92492	FEL-PRO	MS19225	RDS6014	FEL-PRO	P18562
MS93489	FEL-PRO	MS16314	RDS6095-1	FEL-PRO	P18562
MS95087	FEL-PRO	MS12435	RDZ3978	CHRYSLER	P27940
MS96038	FEL-PRO	MS15968	RDZ4233	CHRYSLER	P18562
MS96543	FEL-PRO	MS19398	RDZ4235	CHRYSLER	P27857
MS96788	FEL-PRO	MS19398	RED3	FEL-PRO	JV8
MS96792	FEL-PRO	MS19311	RP-3342	SEALED POWER	215-4216
MS96833	FEL-PRO	MS19312	RP-3345	SEALED POWER	215-4343
N/I	FEL-PRO	MS19741	RP3238	SEALED POWER	215-4216
N23300	SEALED POWER	46467	RS3706	BALDWIN	LX 2934
OS30442A	FEL-PRO	OS30591	RS3735	BALDWIN	LX 2941
OS30694	FEL-PRO	OS32139	SK4415AE704	BORG WARNER	72224
OS30738	FEL-PRO	OS32278	SK4443S	BORG WARNER	72010
OS34102	FEL-PRO	OS32139	SS12434	FEL-PRO	B45229
OS34200C	FEL-PRO	OS32053	SS27205	FEL-PRO	B45229
OS34400	FEL-PRO	OS30591	SS5112	FEL-PRO	B45229
OS34406	FEL-PRO	OS32134	SS70819-1	FEL-PRO	B45411A
P12218	FEL-PRO	P18562	SS70937	FEL-PRO	B45903
P3828	FRAM	OC 239	SS71186	FEL-PRO	B45963
PA2178	BALDWIN	LX 2921	SS71264	FEL-PRO	B45952
PA3763	BALDWIN	LX 2933	SS72528	FEL-PRO	B45229
PA4148	BALDWIN	LX 2928	SS72530	FEL-PRO	B45229
PA4149KIT	BALDWIN	LA 716S	SS72531	FEL-PRO	B45229
PA4162	BALDWIN	LX 2947	SS72628	FEL-PRO	B45560
PA4171	BALDWIN	LX 2918	SS72628-1	FEL-PRO	B45662
PF1070	AC DELCO	OC 1001	SS72711	FEL-PRO	B45812

COMP NO.	COMPETITOR	MAHLE CLEVITE	COMP NO.	COMPETITOR	MAHLE CLEVITE
SS72893	FEL-PRO	B45897	XC3Z 6108-AA	FORD	224-3454
SS72916	FEL-PRO	B45974	XC3Z 9229-AB	FORD	GS33440
T3839	CHRYSLER	46467	Z125	CHRYSLER	D27094
TC181	BORG WARNER	9-181	Z1420	GMC	72224
TCS45016	FEL-PRO	JV5059	Z199	CHRYSLER	D27094
TCS45017	FEL-PRO	JV5060	Z2261	CHRYSLER	D27094
TCS45050	FEL-PRO	JV5060	Z2262	CHRYSLER	D27094
TCS45055	FEL-PRO	JV5079	Z270	CHRYSLER	B45229
TCS45575	FEL-PRO	JV1019	Z342	CHRYSLER	D27094
TCS45686	FEL-PRO	JV971			
TCS45902	FEL-PRO	JV1186			
TCS45994	FEL-PRO	JV5097			
TCS46031	FEL-PRO	JV5076			
TCS46106	FEL-PRO	JV5066			
TS80161	FEL-PRO	TS27920Y			
TS80324	FEL-PRO	TS27275			
TS80332	FEL-PRO	TS27275			
V-2287	SEALED POWER	211-2497			
V-2302	SEALED POWER	211-2562			
V-2303	SEALED POWER	211-2561			
V-4491X	SEALED POWER	211-4090			
V-4494	SEALED POWER	211-4079			
V-4495	SEALED POWER	211-4080			
V2049X	SEALED POWER	211-2562			
VG-804	SEALED POWER	217-3450			
VK-115	SEALED POWER	216-5117A			
VK-138	SEALED POWER	216-5144A			
VK115R	SEALED POWER	216-5118A			
VK138R	SEALED POWER	216-5145			
VS-693	SEALED POWER	212-1094			
VS-820	SEALED POWER	212-1310			
VS50228C	FEL-PRO	VS38327			
VS50396R	FEL-PRO	VS50215S			
VS50483R	FEL-PRO	VS50328			
VS50484R	FEL-PRO	VS50329			
VS50505R	FEL-PRO	VS50215S			
VS50506R	FEL-PRO	VS50317			
VS50589R	FEL-PRO	VS50419			
VS50622R	FEL-PRO	VS50438			
VS50668R	FEL-PRO	VS50543			
VS50681	FEL-PRO	VS50434			
VS50684R	FEL-PRO	VS50439			
VS584	SEALED POWER	212-1094			
W301373	FORD	GS33445			
W936/5	MANN & HUMMEL	OC 114			

FRACTION	DECIMAL	MILLIMETERS
1/64	.01563	.3969
1/32	.03125	.7938
	.03937	1.0000
3/64	.04688	1.1906
<b>1/16</b>	<b>.06250</b>	<b>1.5875</b>
5/64	.07813	1.9844
	.07874	2.0000
3/32	.09375	2.3813
7/64	.10938	2.7781
	.11811	3.0000
<b>1/8</b>	<b>.12500</b>	<b>3.1750</b>
9/64	.14063	3.5719
5/32	.15625	3.9688
	.15748	4.0000
11/64	.17188	4.3656
<b>3/16</b>	<b>.18750</b>	<b>4.7625</b>
	.19685	5.0000
13/64	.20313	5.1594
7/32	.21875	5.5563
15/64	.23438	5.9531
	.23622	6.0000
<b>1/4</b>	<b>.25000</b>	<b>6.3500</b>
17/64	.26563	6.7469
	.27559	7.0000
9/32	.28125	7.1438
19/64	.29688	7.5406
<b>5/16</b>	<b>.31250</b>	<b>7.9375</b>
	.31496	8.0000
21/64	.32813	8.3344
11/32	.34375	8.7313
	.35433	9.0000
23/64	.35938	9.1281
<b>3/8</b>	<b>.37500</b>	<b>9.5250</b>
25/64	.39063	9.9219
	.39370	10.0000
13/32	.40625	10.3188
27/64	.42188	10.7156
	.43307	11.0000
<b>7/16</b>	<b>.43750</b>	<b>11.1125</b>
29/64	.45313	11.5094
15/32	.46875	11.9063
	.47244	12.0000
31/64	.48438	12.3031
<b>1/2</b>	<b>.50000</b>	<b>12.7000</b>

FRACTION	DECIMAL	MILLIMETERS
	.51181	13.0000
33/64	.51563	13.0969
17/32	.53125	13.4938
35/64	.54688	13.8906
	.55118	14.0000
<b>9/16</b>	<b>.56250</b>	<b>14.2875</b>
37/64	.57813	14.6844
	.59055	15.0000
19/32	.59375	15.0813
39/64	.60938	15.4781
<b>5/8</b>	<b>.62500</b>	<b>15.8750</b>
	.62992	16.0000
41/64	.64063	16.2719
21/32	.65625	16.6688
	.66929	17.0000
43/64	.67188	17.0656
<b>11/16</b>	<b>.68750</b>	<b>17.4625</b>
45/64	.70313	17.8594
	.70866	18.0000
23/32	.71875	18.2563
47/64	.73438	18.6531
	.74803	19.0000
<b>3/4</b>	<b>.75000</b>	<b>19.0500</b>
49/64	.76563	19.4469
25/32	.78125	19.8438
	.78740	20.0000
51/64	.79688	20.2406
<b>13/16</b>	<b>.81250</b>	<b>20.6375</b>
	.82677	21.0000
53/64	.82813	21.0344
27/32	.84375	21.4313
55/64	.85938	21.8281
	.86614	22.0000
<b>7/8</b>	<b>.87500</b>	<b>22.2250</b>
57/64	.89063	22.6219
	.90551	23.0000
29/32	.90625	23.0188
59/64	.92188	23.4156
<b>15/16</b>	<b>.93750</b>	<b>23.8125</b>
	.94488	24.0000
61/64	.95313	24.2094
31/32	.96875	24.6063
	.98425	25.0000
63/64	.98438	25.0031
<b>1</b>	<b>1.00000</b>	<b>25.4000</b>













Lined area for notes consisting of 20 horizontal lines.

