

Weatherly Index No. 002

CATALOG NO.

**CA0095**

OCTOBER 2011



# **CASE<sup>®</sup> ENGINES**

## **Replacement Parts Catalog**

**GLOBAL TECHNOLOGY** behind every part

**FEDERAL  
MOGUL<sup>®</sup>**





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*Global Technology Behind Every Part*

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## FP Diesel CA0095 Case Engine Parts Catalog

**Global Technology Behind Every Part**

The new CA0095 Case Engine Parts Catalog contains all of the components currently offered from the FP Diesel brand for Case engines including applications using Cummins engines.

To get the right part you must have all information from the engine data plate affixed to the side of the engine block. You will need the engine model number and the engine serial number. On certain model Case engines you will also need the style of piston, piston pin diameter, thrust washer thickness and/or whether it is direct injected or

indirect injected. On Cummins engines you will need the piston number, and/or the CPL number, and/or the cylinder block, cylinder head, and connecting rod casting numbers.

**Important Notice:** This catalog is not intended to replace the Case parts books, micro-fiche or service manuals. If in doubt about the parts for your particular application, consult your Case OE publications.

### How To Use This Catalog

This catalog is designed to allow expedient identification of correct parts using the following information.

#### The catalog is sorted as follows:

**Engine components are grouped in the following order:**

- 1st** Cylinder Head and Parts
- 2nd** Intake and Exhaust Manifolds
- 3rd** Camshaft Group
- 4th** Fuel System and Parts
- 5th** Cooling System
- 6th** Engine Block and Parts
- 7th** Crankshaft, Oil Pump and Related Parts
- 8th** Cylinder Components (incl. Rod Bearings, Cylinder Sleeves, Pistons, Piston Rings)

**The engines are listed in the following order:**

- 1st** by ENGINE DISPLACEMENT.
- 2nd** by BORE DIAMETER. Engines with the same displacement are sorted by bore diameter.
- 3rd** By USAGE. Engines will be listed for all models in the block for that specific application.
- 4th** By INDUCTION SYSTEM. Naturally aspirated engines will be listed before Turbocharged engines.

Each engine header should provide all the information necessary to select the desired engine. Many of the headers include vehicle identification number listings to provide absolute assurance that the correct listing is being used.

The pages within the applications are easy to read, yet contain all the information required to select the correct part. The components in this catalog are listed in alphabetical order or A through Z.

FP Diesel uses a part numbering system similar to Case OEM number. In most instances, the number is the same except that the suffix of the Case number is omitted (when it serves no applicable purpose). *For Example:*

Case OEM Part Number **A166122**

FP Diesel Part Number **FP-A166122**

All manufacturers numbers, names, symbols and descriptions are used for reference purposes only. It is not implied that any part listed is the product of any specific manufacturer.

All information contained in this catalog is based on the latest data available at the time of printing. Although care has been taken to ensure the accuracy of the data compiled in this catalog, Federal-Mogul does not assume liability for errors or omissions.



## Abbreviations Used

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<b>ABBREVIATION</b>	<b>DESCRIPTION</b>
&	And
2WD	Two Wheel Drive
4WD	Four Wheel Drive
A.I.R.	Air Injector Reactor
A/C	Air Conditioning
A/R	As Required
A/T	Automatic Transmission
ABS	Anti-lock Brake System
AC	Alternating Current
Acc.	Accessory
Adj.	Adjustable
Adv.	Advance
Aft.	After
Alt.	Altitude
Alum.	Aluminum
Amp.	Ampere
AOD	Automatic Overdrive
Appl.	Application
Approx.	Approximately
Asst.	Assist
Assy.	Assembly
ATV	All Terrain Vehicle
Auto.	Automatic
Auto. Trans.	Automatic Transmission
Aux.	Auxiliary
Avail.	Available
Avg.	Average
AWD	All Wheel Drive
Bal.	Balance
Batt.	Battery
Bbl.	Barrel
Bbl. Carb.	Barrel Carburetor
Bef.	Before
Brg.	Bearing
Brkt.	Bracket
C	Celsius
C.I.	Cast Iron
C.R.	Compression Ratio
C/L	Centerline
Calib.	Calibration
Calif.	California
Cam	Camshaft
Can.	Canada
Carb.	Carburetor
Cat.	Catalytic
cc	Cubic Centimeter
CCW	Counter Clockwise
CD	Compression Distance
CFFI	Cross Fire Fuel Injection
CFI	Central Fuel Injection
CFM	Cubic Feet per Minute
CID	Cubic Inch (Displacement)
Cld.	Cooled
Clg.	Cooling
Clr.	Cooler
cm	Centimeter
Cntr. Bore	Counter Bore
Compl.	Complete

<b>ABBREVIATION</b>	<b>DESCRIPTION</b>
Con. Rod	Connecting Rod
Cruise	Cruise Control
Ctr.	Center
CW	Clockwise
Cyl.	Cylinder
Cyl. Hd.	Cylinder Head
DC	Direct Current
Deg.	Degree
DFI	Digital Fuel Injection
DI	Direct Injection
Dia.	Diameter
Dim.	Dimension
Dir. Inj.	Direct Injection
Disc.	Discontinued
Dist.	Distributor
DOHC	Dual Overhead Camshaft
Dr.	Door or Drive
E.E.C.	Electronic Engine Control
E.I.S.	Electronic Ignition System
Ea.	Each
Ecc.	Eccentric
ECM	Electronic Computer Module
ECM	Electronic Control Module
ECM	Engine Control Module
Econ.	Economy
ECS	Electronic Controlled Spark
EFI	Electronic Fuel Injection
Elec.	Electric
Emis.	Emission
Eng.	Engine
Equip.	Equipment
Etc.	Et Cetera
Exc.	Except
Exh.	Exhaust
Exp.	Export
Ext.	Exterior
Ext.	External
F	Fahrenheit
Fed.	Federal
FI	Fuel Injection
Flex.	Flexible
Flg.	Flange
Flwr.	Follower
Frg.	Forged or Forging
Frnt.	Front
FWD	Front Wheel Drive
Gal.	Gallon
Gas.	Gasoline
GPH	Gallons Per Hour
GPM	Gallons Per Minute
Grv(s)	Groove(s)
Gskt.	Gasket
GVW	Gross Vehicle Weight
H/D	Heavy Duty
Hd.	Head
HEI	High Energy Ignition
Hi	High



## Abbreviations Used

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### ABBREVIATION ..... DESCRIPTION

Hi Alt.....	High Altitude
Hi-Perf.....	High Performance
Hi-Temp.....	High Temperature
HO.....	High Output
Horiz.....	Horizontal
HP.....	Horsepower
HSC.....	High Swirl Combustion
Hyd.....	Hydraulic
I/C.....	Intercooler
I.D.....	Identification
ID.....	Inside Diameter
IDI.....	Indirect Injection
In. Frm.....	In Frame
in.....	Inch
Incl.....	Includes
Ind.....	Industrial
Inj.....	Injection
Int.....	Intake
Inter.....	Intermediate
L.....	Liter
L.H.....	Left Hand
L/D.....	Light Duty
Lgth.....	Length
LPG.....	Liquid Propane Gas
M/D.....	Medium Duty
M/T.....	Manual Transmission
Man.....	Manual
Man. Trans.....	Manual Transmission
Max.....	Maximum
Mech.....	Mechanical
MFI.....	Multi-Port Fuel Injection
Min.....	Minimum
mm.....	Millimeters
MPH.....	Miles Per Hour
Mtl.....	Material
N/A.....	Not Available
N/R.....	Not Required
Nat.....	Natural
Nat. Asp.....	Naturally Aspirated
Neg.....	Negative
Neut.....	Neutral
No.....	Number
Nom.....	Nominal
Norm.....	Normal
O.A.L.....	Overall Length
O.E.....	Original Equipment
O/D.....	Overdrive
O/S.....	Oversize
Obs.....	Obsolete
OD.....	Outside Diameter
OEM.....	Original Equipment Manufacturer
OHC.....	Overhead Cam
OHV.....	Overhead Valve
Opt.....	Optional
Orig.....	Original
oz.....	Ounce

### ABBREVIATION ..... DESCRIPTION

P. T.O.....	Power Take Off
P/S.....	Power Steering
Pass.....	Passenger
Pc(s).....	Piece(s)
PCV.....	Positive Crankcase Ventilation
Perf.....	Performance
Pkg.....	Package
Pos.....	Positive
Prem.....	Premium
Pri.....	Primary
PSI.....	Pound Per Square Inch
Pwr.....	Power
Qtr.....	Quarter
Qty.....	Quantity
R.B.P.....	Ring Below Pin
R.H.....	Right Hand
Ref.....	Reference
Reg.....	Regular
Reman.....	Remanufactured
Req'd.....	Required
Rev.....	Revision
Rev. Rot.....	Reverse Rotation
Rlr.....	Roller
RMB.....	Rear Main Bearing
Rot.....	Rotation
RPM.....	Revolutions Per Minute
Rr.....	Rear
RWD.....	Rear Wheel Drive
S/C.....	Supercharged
Seal. Rings.....	Sealing Rings
Ser.....	Serial or Series
Ser. No.....	Serial Number
SFI.....	Sequential Fuel Injection
Slv.....	Sleeve
SOHC.....	Single Overhead Cam
Spd.....	Speed
Spec.....	Special
Sta.....	Station
Std.....	Standard
Sys.....	System
T/C.....	Turbocharged
Tach.....	Tachometer
TBI.....	Throttle Body Injection
Temp.....	Temperature
TPI.....	Tuned Port Injection
Trans.....	Transmission
Trk.....	Truck
TTY.....	Torque-to-Yield
TURBO.....	Turbocharged
U/S.....	Under Size
Veh.....	Vehicle
VIN.....	Vehicle Identification Number
Vlv.....	Valve
VSS.....	Valve Stem Seal
w/.....	With
w/o.....	Without
Wagon.....	Station Wagon
Wt.....	Weight





## FP Diesel Philosophy

*Global Technology Behind Every Part*

FP Diesel – part of the Federal-Mogul Engine Systems group – is the industry's leading brand of premium heavy-duty replacement engine parts and gaskets, providing total engine system solutions for such well-known brands as Case®, Caterpillar®, Cummins®, Detroit Diesel®, IH/Navistar®, John Deere®, Komatsu®, Mack®, Waukesha® and White Superior®.

Federal-Mogul maintains a steadfast commitment to unsurpassed product quality and customer service. We serve construction, marine, agricultural, mining, gas compression, trucking and industrial markets around the globe. As the global leader in heavy-duty powertrain systems, Federal-Mogul is instrumental in the development of every new generation of gasoline and diesel engine technology. When you choose FP Diesel, you get unparalleled global engineering and manufacturing resources built into every product.

Today's medium and heavy duty commercial markets demand performance. Performance means precision-engineered parts that meet your demanding specifications; and are backed by a team of knowledgeable customer service representatives who can provide technical information and assistance; computerized order and inventory tracking for fast and accurate order fill; unprecedented warranty programs and a company-wide commitment to customer satisfaction.



**Construction**



**Agriculture**



**On-Highway**



**Marine**

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## Manufacturing

### Global Technology Behind Every Part



Precise manufacturing and fabricating techniques, rigorous quality control procedures, utilization of the latest CAD technology and innovative solutions to industry challenges – coupled with Federal-Mogul's global manufacturing capabilities – have established FP Diesel as the industry leader in the medium and heavy duty commercial market.

FP Diesel applies stringent quality control procedures with expertly skilled technicians supervising the manufacturing process in all phases to ensure that our parts will perform and last.

FP Diesel is a military approved supplier for the 53 Series Detroit Diesel engine. But the parts we supply for the 53 aren't the only ones that go through government testing. Every FP Diesel part must pass through high-level quality control. Plus, every part is tracked throughout the entire distribution process.

## Customer Service

FP Diesel customer service representatives are among the most experienced and knowledgeable in the industry, with hands-on medium and heavy-duty experience and in-depth knowledge of engine parts and applications. With one call to your

representative you'll have answers to any product, technical, order processing, billing, warranty, pricing, order tracking or availability questions you may have. Customer service that goes the extra mile also means you not only get the parts you need, but expert assistance from a person who knows the market.



Plus, our computerized inventory system allows us to ship orders promptly anywhere in the world, while our easy-to-use cataloging system makes ordering FP Diesel parts fast and simple. For the parts and information you need, count on FP Diesel to go the extra mile.







## Coverage

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The FP Diesel product offering is a comprehensive line of diesel and natural gas engine replacement parts that provide all the coverage necessary to meet your heavy-duty engine rebuilding needs. FP Diesel also offers a full line of gaskets and elastomeric products. For more specific information, please refer to our full-line catalogs, which are engine and machine specific and follow OEM format. To ensure exact part number replacement, these catalogs reference OEM part numbers and features technical information relating to the specific engine being serviced.



## Products and Catalogs

### Caterpillar

Replacement Caterpillar products cover 3200, 3300, 3400, 3500, D Series and G Series engines. This coverage extends from cylinder heads, fuel injection, cam and crankshafts, cylinder kits, valvetrain and electrical to engine bearings, transmission, hydraulic gasket sets and more. **Refer to FP Diesel catalog No. CA0010 (parts) and CA0020 (gaskets).**

### Cummins

FP Diesel provides replacement parts coverage for V378, V504, V555, Small Vee Engines, V/VT 903, 855 Series, N14, L10, B Series, C Series, V/VT1710, N743 and K/KTA 19-, 38- and 50-liter engines, as well as components for Jacobs® brakes. **Refer to FP Diesel catalog No. CA0030.**

### Detroit Diesel

FP Diesel offers the most complete coverage in the replacement parts industry for Detroit Diesel, with an extensive line of components and kits for the 8.2-liter, 53 Series, 60 Series, 71 Series, 92 Series and 149 Series engines. **Refer to FP Diesel catalog No. CA0040 for 2-cycle engines or FP Diesel catalog No. CA0045 for 4-cycle engines.**

### John Deere

FP Diesel offers a broad range of in-frame and complete overhaul kits and related components for 300 Series, 400 Series, 500 Series and Powertech engines. **Refer to FP Diesel catalog No. CA0085.**

### Komatsu

Extensive coverage for Komatsu S6D155 and SA6D155 engines, as well as a full line of replacement parts for Komatsu machines using Cummins N743, KT/KTA 19-, 38- and 50-liter engines, and the Cummins 855. **Refer to FP Diesel catalog No. CA0085.**

### Mack

FP Diesel has a broad line for Mack, early ENDT 675 and 676 engines, as well as parts for later EM6 with both two- and four-valve head configurations. **Refer to FP Diesel catalog No. CA0060.**

### International/Navistar

International coverage extends from the 6.9 and 7.3 liter, DT-360 and DT-466 through the 9.0 liter engine. **Refer to FP Diesel catalog No. CA0050.** For agricultural applications, FP Diesel also services the DT-414 and DT-436 Case/I.H. engines. **For industrial and agricultural applications, refer to FP Diesel catalog No. CA0188.**

### Case

FP Diesel has a complete range of kits and components for the 188, 207, 301, 366, 451 and 504-Case engines along with the 4-390 & 4T-390, 6-590 & 6T-590, 6T-830 & 6TA-830, LTA 10 and NTA 855 B/C III Cummins engines. **Refer to FP Diesel catalog No. CA0095.**

### Commercial, Ag, Industrial Engines

The FP Diesel CA0188 catalog includes all the engine manufacturers not covered in the FP Diesel name-plate specific catalogs. Replacement engine components for Allis-Chalmers, Bedford, Bendix-Westinghouse, Briggs & Stratton, Buda, Case Tractor, Chevrolet MD Truck, Climax, Continental, Dodge MD Truck, Ford Tractor, GMC MD Truck, Hercules, IHC Tractor, Isuzu Forklift, KHD, Kohler, LeRoi, Massey Ferguson, Mercedes, Mazda Forklift, Minneapolis-Moline, Mitsubishi, Novo, Oliver, Perkins, Superior, Thermo-King, Volvo, Waukesha, White and Wisconsin are included in the **FP Diesel CA0188 catalog.**



## Heavy Duty Pistons

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FP Diesel heavy duty pistons are designed and produced for severe operating conditions. Federal-Mogul is one of the world's leading manufacturers of heavy duty pistons offering one and two-piece designs including aluminum, articulated, cast iron and steel materials. For severe and high load applications, FP Diesel pistons include a metallurgically bonded NI-resist insert in the top and in some cases, the second ring groove. The NI-resist insert minimizes groove wear and reduces pound-out from the compression ring. Anodized heads and graphite-coated skirts offer additional durability in severe applications. Federal-Mogul also utilizes an in-house, patented magnesium-phosphate coating to reduce the piston

corrosion caused by high-sulfate diesel fuels and break-in wear on problematic applications.

We design our heavy duty pistons using the latest in computer aided design (CAD) software. Each application is thoroughly researched to ensure the proper dimensional and metallurgical requirements. And since we also design and manufacture cylinder liners and piston rings, our engineers can make sure each piston we develop provides optimum performance as part of the "power-cylinder" system.





## Piston Rings

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FP Diesel offers a broad range of piston rings that dominate the industry with technically advanced design, dedicated research and superior quality. Our rings minimize cylinder leakage under true operating conditions, and provide maximum oil control.

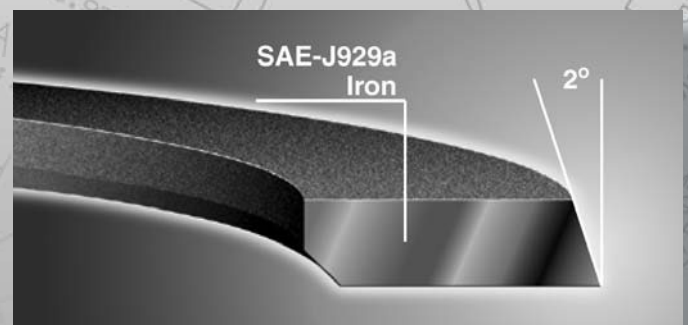
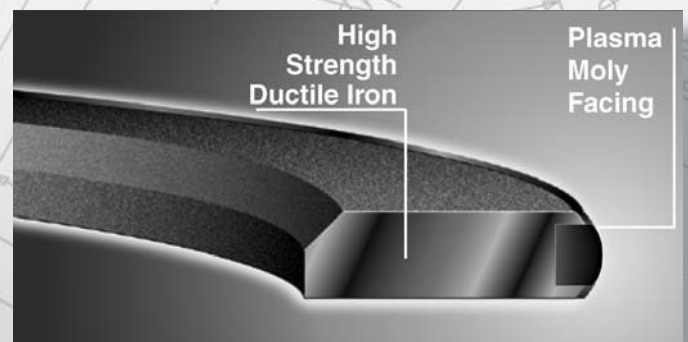
### Top Ring

FP Diesel top rings provide reliable compression sealing and maximum power output, and control "blow-by." They are engineered for instant seating, superior cylinder sealing and optimum durability. We offer cast iron, high strength ductile iron, and steel material choices. All premium ring sets feature moly, chrome or plasma-moly facings for enhanced performance under demanding conditions. The inherent strength of our materials provides sealing integrity at extreme pressures and RPM. We supply rings for all popular applications: including medium and heavy duty, agricultural and high performance.

### Second Ring

Second rings are manufactured from SAE-J929a iron to provide excellent durability and superior oil control. The primary function of the second ring is oil control. Our tapered face design makes this ring work as a "scraper," reducing the potential for oil migration into the combustion chamber.

The race-proven gap design creates an escape path for residual combustion gases, reducing inter-ring pressure and keeping the top ring seated against its groove. Without this escape path, trapped pressure will unseat the top ring, causing ring flutter and reduced cylinder seating at high RPM. Our one-piece second rings are far more effective and reliable than competitive designs which attempt to retain combustion pressure lost through ineffective top rings. Beware: cylinder leakage tests are steady-state; they do not account for time, piston movement or true operating pressures.





## Engine Bearings

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### Engine Bearing Material Selection

When selecting engine bearings, most rebuilders concentrate on getting the proper clearances and maintaining adequate oil pressure. Durability is expected from any bearing chosen, and the advantages of different bearing materials may not be considered. If engine operating conditions are considered and bearing materials chosen accordingly, the likelihood of engine longevity is greater. No single material can be correct for every application. FP Diesel engine bearings are equal to or better than the

original equipment specifications for material and design. We also provide alternatives to address unique problems and special needs.

In heavy duty applications there are a number of materials that will do an excellent job. Each alloy has advantages in terms of resistance to corrosion, rate of wear and fatigue strength. The latter characteristic is critical in engines that operate under high loads, generate considerable heat and may be subjected to occasional detonation.

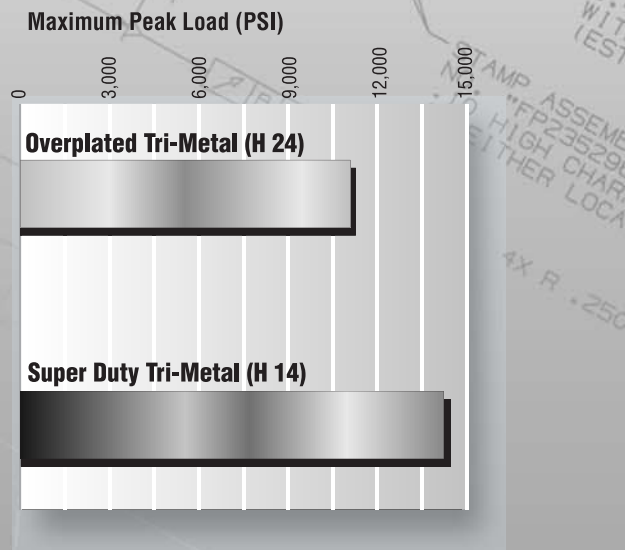
#### Bi-Metal Aluminum Alloys – Plated and Unplated

Diesel fuels, moisture, and engine “blow-by” introduce many contaminants into the crankcase. Aluminum engine bearing materials provide outstanding resistance to the corrosive effects of these substances, and are the product of choice for most current original equipment vehicle manufacturers. The modern bi-metal aluminum engine bearing contains silicon. As a result of using silicon, the alloy resists seizure and dramatically reduces or

eliminates bearing wear. This contributes to today’s extended engine life. Aluminum is often the best material for a daily driven vehicle. Adding an overplate to an aluminum engine bearing will further enhance embedability and conformability. Continued efforts to remove lead from our environment guarantee that aluminum will become the preferred engine bearing material for most applications.

#### Tri-Metal Alloys

Tri-Metal engine bearings, such as our H-14 and H-24 alloys, have excellent fatigue resistance, but are less resistant to corrosion damage than aluminum bearings. These bearing materials are accepted by engine builders worldwide, and are proven to be reliable in a wide range of uses. While OE manufacturers are moving to aluminum for their needs, many rebuilders still specify the tri-metal bearings for older engines.





## Engine Kits

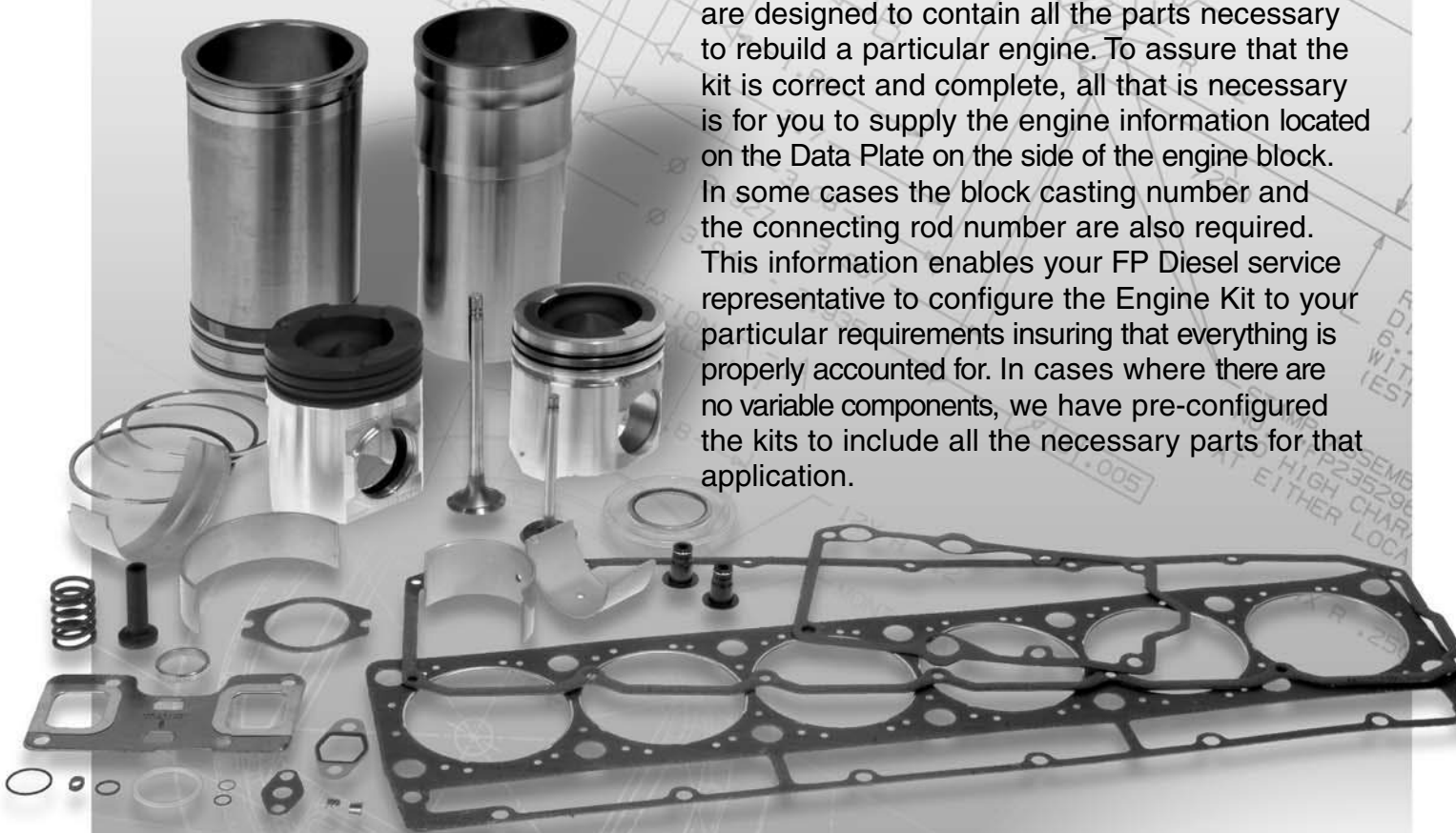
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The FP Diesel Engine Kit program allows you to select a kit tailored to the job at hand. Whether performing a complete overhaul or in-frame repair, FP Diesel engine kits contain all the necessary components to complete the rebuild job. This comprehensive program provides you with the following:

- Concise application information
- One price look-up
- A full complement of oversizes and undersizes
- Master kits that include full gasket sets

### How To Specify FP Diesel Engine Kits

Many FP Diesel engine kits have several variations in components that are available depending on the specific engine. Overhaul Kits are designed to contain all the parts necessary to rebuild a particular engine. To assure that the kit is correct and complete, all that is necessary is for you to supply the engine information located on the Data Plate on the side of the engine block. In some cases the block casting number and the connecting rod number are also required. This information enables your FP Diesel service representative to configure the Engine Kit to your particular requirements insuring that everything is properly accounted for. In cases where there are no variable components, we have pre-configured the kits to include all the necessary parts for that application.





## Warranty

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The products listed in this catalog are warranted to be free from defects in material and workmanship, under normal use and service, for two years from date of installation in an engine, without mileage or hour qualification in accordance with the following limited warranty. This warranty is the sole and exclusive warranty for failure of the above parts. This exclusive remedy shall not be deemed to have failed of its essential purpose so long as Federal-Mogul is willing and able to provide the remedy provided below.

### WARRANTY LIMITATIONS

Federal-Mogul agrees to only pay for parts and labor needed to repair engine damages that result from the defined warranty failure. The costs are limited to parts and labor necessary for restoring the engine to its condition immediately prior to the failure. Labor costs are determined by current published rates and standards in the geographic area in which repairs are performed. Overtime or holiday rate charges are not allowed. We will also pay for maintenance products such as oil, antifreeze, belts, hoses and filter elements that are damaged because of a defined warranty failure.

Federal-Mogul is not responsible for engine failure resulting from owner, operator or third party neglect or abuse, improper installation or repair procedures, alteration or misapplication of parts, failure to properly service or maintain the engine and vehicle in accordance with applicable OEM operation and maintenance manuals or use in engine modified for competition purposes or used in competition.

OTHER THAN AS EXPRESSLY PROVIDED HEREBY, FEDERAL-MOGUL SHALL NOT, UNDER ANY CIRCUMSTANCES, BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, DAMAGE OR LOSS OF OTHER PROPERTY OR EQUIPMENT, LOSS OF PROFITS OR REVENUE, TRANSPORTATION AND TOWING COSTS, COST OF PURCHASED OR REPLACED GOOD, OR CLAIMS OF CUSTOMERS OF THE PURCHASER, WHICH MAY ARISE OR RESULT FROM THE SALE, INSTALLATION, OR USE OF THESE PARTS. Some jurisdictions do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages, so the limitations or exclusions contained herein may or may not apply to you. This warranty gives you specific legal rights. You may also have other rights depending on the state or province in which you reside.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS AND/OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE AND THEY ARE EXCLUDED TO THE EXTENT THEY EXCEED THE WARRANTY COVERAGE DESCRIBED BY THIS WARRANTY.

This warranty and remedy apply to new FP Diesel engine parts from Federal-Mogul sold directly to our authorized aftermarket customers as evidenced by completed claim documentation.

No agent or sales representative of Federal-Mogul Corporation has the authority to modify this warranty. Other Federal-Mogul parts may carry different warranties.

Federal-Mogul must be notified by the customer: (i) before filing a warranty claim, (ii) within one year of the date that the claim accrues, and (iii) before any work has been performed. All claims must be submitted in writing and Federal-Mogul reserves the right to examine all parts, systems and related information associated with the claim. (Note all shipping charges are the responsibility of the end-user or distributor, Federal-Mogul will not accept collect shipments). See your sales representative for detailed claim submission procedures and forms.

Use parts only for applications and interchanges in this catalog.

Failure to heed this warning could result in reduced life or failure of the part. All parts listed in this catalog are not for use in space program, atomic energy/nuclear reactor equipment, medical or aircraft applications. Federal-Mogul reserves the right to make product improvements/changes, with respect to similar products previously manufactured, without notice and without incurring liability.





## Warranty

### Global Technology Behind Every Part

Les produits indiqués dans ce catalogue sont garantis contre toute défectuosité de matériel et de fabrication, dans des conditions d'utilisation et d'entretien normales, sur une période de deux ans à partir de la date d'installation dans un moteur, sans qualification de kilométrage ou horaire, conformément à la garantie limitée suivante.

Cette garantie est la garantie unique et exclusive pour la défaillance des pièces précitées. Ce recours exclusif ne doit pas être présumé comme ayant échoué à son objectif essentiel, tant que Federal-Mogul approuve et est capable de fournir le recours fourni ci-dessous.

### LIMITATIONS DE GARANTIE

Federal-Mogul accepte uniquement de payer les pièces et la main-d'œuvre nécessaires pour réparer les dommages de moteur qui résultent de la défaillance de la garantie définie. Les coûts sont limités aux pièces et à la main-d'œuvre nécessaires pour la restauration du moteur à l'état auquel il se trouvait juste avant la défaillance.

Les frais de main-d'œuvre sont déterminés par les prix et normes publiés à l'heure actuelle dans la zone géographique dans laquelle les réparations sont effectuées. Les heures supplémentaires ou les frais de jours fériés ne sont pas permis. Nous payons également les produits d'entretien, tels que l'huile, l'antigel, les courroies, les tuyaux et les éléments de filtre qui sont endommagés en raison d'une défaillance de garantie définie.

Federal-Mogul décline toute responsabilité pour une défaillance de moteur découlant d'une négligence ou d'un abus infligés par le propriétaire, l'opérateur ou une tierce partie, de procédures d'installation ou de réparations incorrectes, de l'altération ou d'une application incorrecte de pièces, d'un manque de réparation ou d'entretien adéquat du moteur et du véhicule conformément aux manuels d'utilisation et d'entretien OEM applicables, ou de l'utilisation dans un moteur modifié à des fins de compétition ou utilisé en compétition.

SAUF SUR SPÉCIFICATION EXPRESSE DANS LA PRÉSENTE, FEDERAL-MOGUL NE SERA RESPONSABLE, EN AUCUNE CIRCONSTANCE, POUR DES DOMMAGES SPÉCIAUX, INDIRECTS, ACCESSOIRES OU CONSÉCUTIFS, Y COMPRIS, SANS S'Y LIMITER, DES DOMMAGES OU LA PERTE D'UNE AUTRE PROPRIÉTÉ OU D'UN AUTRE ÉQUIPEMENT, LA PERTE DE PROFITS OU DE REVENUS, LES FRAIS DE TRANSPORT ET DE REMORQUAGE, LES FRAIS DE BIENS ACHETÉS OU REMPLACÉS, OU LES DEMANDES DE CLIENTS DE L'ACHETEUR, QUI PEUVENT SE PRÉSENTER OU RÉSULTER DE LA VENTE, DE L'INSTALLATION OU DE L'UTILISATION DE CES PIÈCES.

Certaines juridictions ne permettent pas les limites sur la durée d'une garantie implicite, ni l'exclusion ou la limitation de dommages accessoires ou consécutifs, et, par conséquent, les limitations ou exclusions ci-incluses peuvent s'appliquer ou non pour votre cas. Cette garantie vous octroie des droits légaux spécifiques.

Vous disposez également d'autres droits en fonction de l'état ou de la province de votre résidence.

LA PRÉSENTE GARANTIE REMPLACE TOUTES AUTRES GARANTIES, EXPRESSES ET/OU IMPLICITES, Y COMPRIS, SANS S'Y LIMITER, LES GARANTIES DE QUALITÉ MARCHANDE OU D'ADAPTATION À UN USAGE PARTICULIER, ET ELLES SONT EXCLUES SI ELLES DEVAIENT DÉPASSER LA COUVERTURE DE GARANTIE DÉCRITE PAR LA PRÉSENTE GARANTIE.

Cette garantie et le recours s'appliquent aux nouvelles pièces du moteur diesel FP de Federal-Mogul vendu directement à nos clients de pièces de rechange autorisés, tel qu'attesté par les documents de demande dûment remplis. Aucun agent ou représentant de ventes de Federal-Mogul Corporation ne dispose du droit de modifier la présente garantie. D'autres pièces de Federal-Mogul peuvent être couvertes par des garanties différentes.

### PROCÉDURES DE DEMANDE

Le client doit notifier Federal-Mogul : (i) avant de remplir une demande au titre de la garantie, (ii) en l'espace d'un an à partir de la date à laquelle la demande est exercée, et (iii) avant l'exécution d'un travail quelconque.

Toutes les demandes doivent être soumises par écrit et Federal-Mogul se réserve le droit d'examiner toutes les pièces, tous les systèmes et toutes les informations associées à la demande.

(Veuillez noter que l'utilisateur final ou le distributeur est responsable pour tous les frais d'expédition; Federal-Mogul n'accepte aucun envoi en port-dû). Veuillez consulter votre représentant des ventes pour les formulaires et les procédures de soumission de demande détaillés.

### AVERTISSEMENT

Utilisez uniquement les pièces pour les applications et les échanges de ce catalogue.

Un manque de respect de cet avertissement pourrait résulter en une durée de vie réduite ou une défaillance de la pièce. Aucune des pièces indiquées dans ce catalogue n'est destinée à être utilisée dans un programme d'espace, pour du matériel de réacteur nucléaire/d'énergie atomique, ou des applications médicales ou d'aéronefs.

Federal-Mogul se réserve le droit d'effectuer des améliorations/changements de produits, en ce qui concerne des produits similaires fabriqués auparavant, sans avis et sans assumer de responsabilité.



## Warranty

### Global Technology Behind Every Part

Se garantiza que todos los productos presentados en este catálogo no presentaran defecto alguno, ya sea en su material ni en su fabricación, bajo condiciones de uso y servicio normales. La garantía es de dos años de la fecha de la instalación en el motor, sin límites en el kilometraje o en las horas de funcionamiento. Esta es la única y exclusiva garantía si alguna de las partes listadas fuese a fallar. Este recurso exclusivo no se tomará como una falta, siempre y cuando Federal Mogul pueda remediarlo con las provisiones enumeradas mas abajo.

### LIMITACIONES DE LA GARANTIA

Federal-Mogul pagará solo por las partes y la mano de obra necesarias para reparar daños al motor que resulten de una falla definida sobre la parte vendida. Los costos quedarán limitados a las partes y la mano de obra necesarias para restaurar el motor a la condición en la cual se encontraba inmediatamente antes de la falla.

Los costos de la mano de obra se determinarán por medio de precios publicados y estándares del área geográfica en la cual las reparaciones se lleven a cabo. No se permitirá agregar costos de tiempo extra ni por trabajo durante días festivos. Pagaremos por productos de mantenimiento tales como aceite, anti-congelantes, correas, mangueras y filtros dañados debido a alguna falla definida del producto vendido.

Federal-Mogul no se hará responsable por una falla de motor causada por el dueño, operador o un tercero, ya sea por su propia negligencia, abuso o instalación inadecuada o procedimientos de reparación inadecuados, por alteración o aplicación incorrecta de las partes, falta de servicio necesario o mantenimiento del motor o de el vehículo de acuerdo a los manuales de operación y mantenimiento de acuerdo fabricante original, o por la modificación de un motor para su uso en competencias o por haber sido usado en competencias.

FEDERAL-MOGUL NO SERÁ RESPONSABLE, BAJO NINGUNA CIRCUNSTANCIA, OTRO QUE NO SEA LO QUE SE HA MENCIONADO EXPLÍCITAMENTE EN ÉSTA GARANTÍA, POR CUALQUIER DAÑO INDIRECTO, ESPECIAL, ACCIDENTAL O CÓMO CONSECUENCIA DE OTROS DAÑOS, INCLUYENDO, PERO SIN QUE QUÉDE LIMITADO A DAÑOS O PÉRDIDAS DE BIENES O DE EQUIPO, PÉRDIDA DE GANANCIAS O INGRESOS, COSTOS DE GRÚA O TRANSPORTACIÓN, DE PARTES REEMPLAZADAS, O RECLAMOS DE CLIENTES DEL COMPRADOR, QUE PUEDAN RESULTAR DE LA VENTA, INSTALACIÓN, O USO DE ÉSTAS PARTES.

Algunas jurisdicciones no permiten limitaciones con respecto a la duración de garantías implícitas, o a la exclusión o limitación de daños accidentales, por lo tanto puede que las limitaciones o exclusiones contenidas en el presente no le apliquen a Ud. Esta garantía le ofrece derechos específicos. Ud. puede gozar de derechos adicionales dependiendo del estado o provincia en la cual viva.

ÉSTA GARANTIA REEMPLAZARA CUALQUIER Y TODA OTRA GARANTÍA, YA SEA EXPLÍCITA U IMPLÍCITA, INCLUYENDO, PERO NO LIMITANDOSE A GARANTÍAS PARA LA MERCANCÍA Y USO DE LA MISMA CON UN PROPÓSITO EN PARTICULAR, Y ESAS MISMAS QUEDARAN EXCLUIDAS SI EXCEDEN LA COBERTURA DESCRITA EN ÉSTA GARANTÍA.

Ésta garantía y recurso aplican a partes nuevas de motores de FP Diésel, vendidas directamente a nuestros clientes autorizados del mercado de reposición, lo cual será corroborado por medio de documentación usada en el reclamo.

Ningún agente o representante de la empresa Federal-Mogul tiene autoridad para modificar ésta garantía.

Otras partes de Federal-Mogul pueden tener garantías diferentes.

### PROCEDIMIENTO PARA PRESENTAR UN RECLAMO

Federal-Mogul debe ser notificado por el cliente: (i) antes de presentar un reclamo cubierto en la garantía, (ii) dentro del plazo de un año de ocurrida la falla, y (iii) antes de que se haya hecho algún trabajo.

Todo reclamo debe ser entregado por escrito y Federal-Mogul reserva el derecho a examinar todas las partes, sistemas e información relacionados y asociados al reclamo. (Todo cargo de envío será responsabilidad del usuario final o distribuidor, Federal-Mogul no aceptará envíos a cobrar). Contacte a su representante de ventas para conseguir el formulario de reclamos con el procedimiento detallado.

### ADVERTENCIA

Las partes deben ser usadas sólo para las aplicaciones mencionadas en éste catálogo. El no seguir ésta advertencia puede que resulte en que le falle la parte o a que su vida quede reducida. Todas las partes listadas en éste catálogo no están hechas para el uso en programas espaciales, para equipos de energía atómica, o reactores nucleares, o para aplicaciones médicas ni en naves aéreas. Federal-Mogul se reserva el derecho de hacerle mejoras y cambios a los productos, con respecto a productos similares que se hayan fabricado previamente, sin notificación o responsabilidad legal alguna.



### Engine Finding Index

Engine	Line No.	Engine	Line No.
.4L 23 L-HEAD L1 3" Bore (Wisconsin Eng.)	1	4.6L 282 L-HEAD L6 3.75" Bore (Hercules Eng.)	35
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1.6L 95 L-HEAD L4 2.75" Bore (Hercules Eng.)	3	4.9L 298 OHV L6 3.75" Bore (Hercules Eng.)	37
1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	4	5.0L 301 L4 4.375" Bore	38
2.1L 124 L-HEAD L4 3" Bore (Continental Eng.)	5	5.0L 301 Diesel L4 4.375" Bore	39
2.1L 124 L4 3.25" Bore	6	5.2L 318 OHV V8 3.9063" Bore (Chrysler Eng.)	40
2.1L 126 L4 3.125" Bore	7	5.5L 336 Diesel L4 4.625" Bore	41
2.2L 132.7 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	8	5.5L 336 Turbo-Diesel L4 4.625" Bore	42
2.2L 133 L-HEAD L4 3.25" Bore (Early) (Waukesha Eng.)	9	5.8L 354 OHV Diesel L6 3.875" Bore (12 Valve) (Perkins Eng.)	43
2.2L 133 L4 3.25" Bore (Waukesha Eng.)	10	5.9L 359 (5882cc) OHV Diesel L6 102mm Bore (Cummins Eng.)	44
2.3L 140 L-HEAD L4 3.1875" Bore (Continental Eng.)	11	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.)	45
2.4L 148 L4 3.375" Bore (G148)	12	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (24 Valve) (Cummins Eng.)	46
2.4L 148 L4 3.375" Bore (G148B)	13	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (24 Valve) (Cummins Eng.)	47
2.5L 154 L4 3.5" Bore	14	6.2L 377 L6 4" Bore (Early)	48
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2.7L 164 L4 3.5625" Bore	19	6.7L 408 (6691cc) OHV Turbo-Diesel L6 107mm Bore (24 Valve) (Cummins Eng.)	53
3.0L 186 L4 3.625" Bore (Waukesha Eng.)	20	7.4L 451 Diesel L6 4.375" Bore	54
3.1L 188 L4 3.8125" Bore (G188B)	21	7.4L 451 Turbo-Diesel L6 4.375" Bore	55
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3.7L 225 OHV L6 3.4063" Bore (Chrysler Eng.)	25	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)	59
3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.)	26	10.0L 611 (10000cc) OHV Turbo-Diesel L6 125mm Bore (24 Valve) (Cummins Eng.)	60
3.9L 239 (3921cc) OHV Turbo-Diesel L4 102mm Bore (Cummins Eng.)	27	10.8L 661 (10800cc) OHV Turbo-Diesel L6 125mm Bore (24 Valve) (Cummins Eng.)	61
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### Engine Code Index

Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
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AEH ... Grain Elevator	.4L 23 L-HEAD L1 3" Bore (Wisconsin Eng.)	1	A267 ... Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore	32
AEHS ... Grain Elevator	.4L 23 L-HEAD L1 3" Bore (Wisconsin Eng.)	1	A267 ... Wheel Loader	4.4L 267 Diesel L4 4.125" Bore	32
AEM ... Grain Elevator	.4L 23 L-HEAD L1 3" Bore (Wisconsin Eng.)	1	A267B ... Combine	4.4L 267 Diesel L4 4.125" Bore	32
AEN ... Grain Elevator	.4L 23 L-HEAD L1 3" Bore (Wisconsin Eng.)	1	A267B ... Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore	32
AEND ... Grain Elevator	.4L 23 L-HEAD L1 3" Bore (Wisconsin Eng.)	1	A267B ... Wheel Loader	4.4L 267 Diesel L4 4.125" Bore	32
AENL ... Grain Elevator	.4L 23 L-HEAD L1 3" Bore (Wisconsin Eng.)	1	A267BD ... Combine	4.4L 267 Diesel L4 4.125" Bore	32
AENLD ... Grain Elevator	.4L 23 L-HEAD L1 3" Bore (Wisconsin Eng.)	1	A267BD ... Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore	32
AENS ... Grain Elevator	.4L 23 L-HEAD L1 3" Bore (Wisconsin Eng.)	1	A267BD ... Wheel Loader	4.4L 267 Diesel L4 4.125" Bore	32
AES ... Grain Elevator	.4L 23 L-HEAD L1 3" Bore (Wisconsin Eng.)	1	A267D ... Combine	4.4L 267 Diesel L4 4.125" Bore	32
A2 ... Grain Elevator	.4L 23 L-HEAD L1 3" Bore (Wisconsin Eng.)	1	A267D ... Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore	32
A251 ... Combine	4.1L 251 L4 4" Bore	28	A267D ... Wheel Loader	4.4L 267 Diesel L4 4.125" Bore	32
A251 ... Wheel Tractor	4.1L 251 L4 4" Bore	28	A284G ... Combine	4.7L 284 L4 4.25" Bore	36
A251B ... Combine	4.1L 251 L4 4" Bore	28	A284G ... Wheel Tractor	4.7L 284 L4 4.25" Bore	36
A251B ... Wheel Tractor	4.1L 251 L4 4" Bore	28	A284GF ... Combine	4.7L 284 L4 4.25" Bore	36
A251G ... Combine	4.1L 251 L4 4" Bore	28	A284GF ... Wheel Tractor	4.7L 284 L4 4.25" Bore	36
A251G ... Wheel Tractor	4.1L 251 L4 4" Bore	28	A284S ... Combine	4.7L 284 L4 4.25" Bore	36
A251S ... Combine	4.1L 251 L4 4" Bore	28	A284S ... Wheel Tractor	4.7L 284 L4 4.25" Bore	36
A251S ... Wheel Tractor	4.1L 251 L4 4" Bore	28	A301 ... Wheel Tractor	5.0L 301 L4 4.375" Bore	38
			A301BD ... Wheel Tractor	5.0L 301 Diesel L4 4.375" Bore	39
			A301BD ... Crawler Tractor	5.0L 301 Diesel L4 4.375" Bore	39
			A301BD ... Wheel Loader	5.0L 301 Diesel L4 4.375" Bore	39
			A301D ... Wheel Tractor	5.0L 301 Diesel L4 4.375" Bore	39
			A301D ... Crawler Tractor	5.0L 301 Diesel L4 4.375" Bore	39
			A301D ... Wheel Loader	5.0L 301 Diesel L4 4.375" Bore	39
			A301DF ... Combine	5.0L 301 Diesel L4 4.375" Bore	39
			A336BD ... Wheel Tractor	5.5L 336 Diesel L4 4.625" Bore	41
			A336BD ... Crawler Tractor	5.5L 336 Diesel L4 4.625" Bore	41
			A336BD ... Wheel Loader	5.5L 336 Diesel L4 4.625" Bore	41
			A336BD ... Excavator	5.5L 336 Diesel L4 4.625" Bore	41

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**Engine Code Index**

Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
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A336BD ... Concrete Placer ...	5.5L 336 Diesel L4 4.625" Bore....	41	GO298 ... Combine.....	4.9L 298 OHV L6 3.75" Bore (Hercules Eng.).....	37
A336BDT ... Wheel Tractor ...	5.5L 336 Turbo-Diesel L4 4.625" Bore.....	42	G126 ... Combine .....	2.1L 126 L4 3.125" Bore.....	7
A336BDT ... Crawler Tractor ..	5.5L 336 Turbo-Diesel L4 4.625" Bore.....	42	G126 ... Wheel Tractor .....	2.1L 126 L4 3.125" Bore.....	7
A336BDT ... Wheel Loader.....	5.5L 336 Turbo-Diesel L4 4.625" Bore.....	42	G148 ... Combine .....	2.4L 148 L4 3.375" Bore (G148) ..	12
A336BDT ... Excavator.....	5.5L 336 Turbo-Diesel L4 4.625" Bore.....	42	G148 ... Wheel Tractor.....	2.4L 148 L4 3.375" Bore (G148) ..	12
A336BDT ... Wheel Skidder... ..	5.5L 336 Turbo-Diesel L4 4.625" Bore.....	42	G148B ... Wheel Tractor.....	2.4L 148 L4 3.375" Bore (G148B) .....	13
A336BDT ... Concrete Placer.....	5.5L 336 Turbo-Diesel L4 4.625" Bore.....	42	G159 ... Wheel Tractor .....	2.6L 159 L4 3.5" Bore.....	17
A377B ... Wheel Tractor .....	6.2L 377 L6 4" Bore (Early) .....	48	G159B ... Wheel Tractor.....	2.6L 159 L4 3.5" Bore.....	17
A377S ... Wheel Tractor .....	6.2L 377 L6 4" Bore (Early) .....	48	G164 ... Wheel Tractor .....	2.7L 164 L4 3.5625" Bore.....	19
A401B ... Wheel Tractor .....	6.6L 401 Diesel L6 4.125" Bore....	51	G188 ... Combine .....	3.1L 188 L4 3.8125" Bore (G188B) .....	21
A401B ... Crawler Tractor .....	6.6L 401 Diesel L6 4.125" Bore....	51	G188 ... Wheel Tractor .....	3.1L 188 L4 3.8125" Bore (G188B) .....	21
A401B ... Wheel Loader .....	6.6L 401 Diesel L6 4.125" Bore....	51	G188B ... Combine .....	3.1L 188 L4 3.8125" Bore (G188B) .....	21
A401BD ... Wheel Tractor .....	6.6L 401 Diesel L6 4.125" Bore....	51	G188B ... Wheel Tractor.....	3.1L 188 L4 3.8125" Bore (G188B) .....	21
A401BD ... Crawler Tractor ...	6.6L 401 Diesel L6 4.125" Bore....	51	G188D ... Combine.....	3.1L 188 Diesel L4 3.8125" Bore..	22
A401BD ... Wheel Loader.....	6.6L 401 Diesel L6 4.125" Bore....	51	G188D ... Wheel Tractor.....	3.1L 188 Diesel L4 3.8125" Bore..	22
A401D ... Wheel Tractor .....	6.6L 401 Diesel L6 4.125" Bore....	51	G188D ... Windrower.....	3.1L 188 Diesel L4 3.8125" Bore..	22
A401D ... Crawler Tractor .....	6.6L 401 Diesel L6 4.125" Bore....	51	G188D ... Crawler Tractor .....	3.1L 188 Diesel L4 3.8125" Bore..	22
A401D ... Wheel Loader .....	6.6L 401 Diesel L6 4.125" Bore....	51	G188D ... Wheel Loader.....	3.1L 188 Diesel L4 3.8125" Bore..	22
A451 ... Wheel Tractor.....	7.4L 451 Diesel L6 4.375" Bore....	54	G207D ... Forklift .....	3.4L 207 Diesel L4 4" Bore.....	23
A451B ... Wheel Tractor .....	7.4L 451 Diesel L6 4.375" Bore....	54	G207D ... Loader .....	3.4L 207 Diesel L4 4" Bore.....	23
A451B ... Crawler Tractor .....	7.4L 451 Diesel L6 4.375" Bore....	54	G207D ... Wheel Tractor.....	3.4L 207 Diesel L4 4" Bore.....	23
A451BD ... Wheel Tractor.....	7.4L 451 Diesel L6 4.375" Bore....	54	G207D ... Crawler Tractor .....	3.4L 207 Diesel L4 4" Bore.....	23
A451BD ... Crawler Tractor ...	7.4L 451 Diesel L6 4.375" Bore....	54	H-225 ... Combine .....	3.7L 225 OHV L6 3.4063" Bore (Chrysler Eng.) .....	25
A451D ... Wheel Tractor .....	7.4L 451 Diesel L6 4.375" Bore....	54	H-273 ... Combine .....	4.5L 273 OHV V8 3.625" Bore (Chrysler Eng.) .....	33
A451T ... Wheel Tractor .....	7.4L 451 Turbo-Diesel L6 4.375" Bore.....	55	H-318 ... Combine .....	5.2L 318 OHV V8 3.9063" Bore (Chrysler Eng.) .....	40
A504BD ... Wheel Tractor.....	8.3L 504 Diesel L6 4.625" Bore....	56	HA-273 ... Combine .....	4.5L 273 OHV V8 3.625" Bore (Chrysler Eng.) .....	33
A504BD ... Crawler Tractor .....	8.3L 504 Diesel L6 4.625" Bore....	56	HAENL ... Grain Elevator.....	4L 23 L-HEAD L1 3" Bore (Wisconsin Eng.) .....	1
A504BD ... Wheel Loader.....	8.3L 504 Diesel L6 4.625" Bore....	56	HD260 ... Wheel Tractor.....	4.3L 260 OHV Diesel L4 3.875" Bore (Continental Eng.).....	31
A504BD ... Excavator .....	8.3L 504 Diesel L6 4.625" Bore....	56	HD277 ... Wheel Tractor.....	4.5L 277 OHV Diesel L4 4" Bore (Continental Eng.).....	34
A504BD ... Concrete Placer ..	8.3L 504 Diesel L6 4.625" Bore....	56	H6.354 ... Wheel Tractor .....	5.8L 354 OHV Diesel L6 3.875" Bore (12 Valve) (Perkins Eng.)....	43
A504BDT ... Combine.....	8.3L 504 Turbo-Diesel L6 4.625" Bore.....	57	ISB 5.9 ... Wheel Skidder .....	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (24 Valve) (Cummins Eng.) .....	46
A504BDT ... Wheel Tractor ...	8.3L 504 Turbo-Diesel L6 4.625" Bore.....	57	IXF3 ... Combine.....	1.6L 95 L-HEAD L4 2.75" Bore (Hercules Eng.).....	3
A504BDT ... Crawler Tractor ..	8.3L 504 Turbo-Diesel L6 4.625" Bore.....	57	JXC ... Combine .....	4.6L 282 L-HEAD L6 3.75" Bore (Hercules Eng.).....	35
A504BDT ... Wheel Loader.....	8.3L 504 Turbo-Diesel L6 4.625" Bore.....	57	LH-318 ... Combine .....	5.2L 318 OHV V8 3.9063" Bore (Chrysler Eng.) .....	40
A504BDT ... Excavator.....	8.3L 504 Turbo-Diesel L6 4.625" Bore.....	57	NTC350 ... Wheel Tractor.....	14.0L 855 OHV Turbo-Diesel L6 5.5" Bore (Cummins Eng.).....	62
A504BDT ... Concrete Placer.....	8.3L 504 Turbo-Diesel L6 4.625" Bore.....	57	NTC400 ... Wheel Tractor.....	14.0L 855 OHV Turbo-Diesel L6 5.5" Bore (Cummins Eng.).....	62
A6.354 ... Wheel Tractor.....	5.8L 354 OHV Diesel L6 3.875" Bore (12 Valve) (Perkins Eng.)....	43	QSB 5.9 ... Grader.....	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (24 Valve) (Cummins Eng.) .....	47
CE ... Combine .....	4.3L 260 L4 3.875" Bore.....	30	QSB 5.9 ... Compactor .....	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (24 Valve) (Cummins Eng.) .....	47
CE ... Wheel Tractor .....	4.3L 260 L4 3.875" Bore.....	30	QSB 6.7 ... Grader.....	6.7L 408 (6691cc) OHV Turbo-Diesel L6 107mm Bore (24 Valve) (Cummins Eng.) .....	53
FK ... Combine.....	2.2L 133 L-HEAD L4 3.25" Bore (Early) (Waukesha Eng.) .....	9	QSB 6.7 ... Wheel Tractor .....	6.7L 408 (6691cc) OHV Turbo-Diesel L6 107mm Bore (24 Valve) (Cummins Eng.) .....	53
FK ... Wheel Tractor .....	2.2L 133 L-HEAD L4 3.25" Bore (Early) (Waukesha Eng.) .....	9			
FK ... Combine.....	2.2L 133 L4 3.25" Bore (Waukesha Eng.) .....	10			
FK ... Wheel Tractor .....	2.2L 133 L4 3.25" Bore (Waukesha Eng.) .....	10			
F124 ... Wheel Tractor.....	2.1L 124 L-HEAD L4 3" Bore (Continental Eng.).....	5			
F140 ... Wheel Tractor.....	2.3L 140 L-HEAD L4 3.1875" Bore (Continental Eng.).....	11			
F162 ... Wheel Tractor.....	2.6L 162 L-HEAD L4 3.4375" Bore (Continental Eng.).....	18			
F209 ... Wheel Tractor.....	3.4L 209 L-HEAD L6 3.1875" Bore (Continental Eng.).....	24			

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Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
QSM 10.8 ... Off Highway Truck	10.8L 661 (10800cc) OHV Turbo-Diesel L6 125mm Bore (24 Valve) (Cummins Eng.)	61	148B ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13
QSM 10.8 ... Wheel Loader	10.8L 661 (10800cc) OHV Turbo-Diesel L6 125mm Bore (24 Valve) (Cummins Eng.)	61	148G ... Combine	2.4L 148 L4 3.375" Bore (G148)	12
SE ... Combine	2.5L 154 L4 3.5" Bore	14	148G ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12
SE ... Wheel Tractor	2.5L 154 L4 3.5" Bore	14	159 ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17
VA124 ... Hay Baler	2.1L 124 L4 3.25" Bore	6	159B ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17
VA124 ... Combine	2.1L 124 L4 3.25" Bore	6	164 ... Wheel Tractor	2.7L 164 L4 3.5625" Bore	19
VA124 ... Wheel Tractor	2.1L 124 L4 3.25" Bore	6	188 ... Combine	3.1L 188 L4 3.8125" Bore (G188B)	21
VE4 ... Hay Baler	1.5L 91.9 L-HEAD V4 3" Bore (Wisconsin Eng.)	2	188 ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21
VE4 ... Combine	1.5L 91.9 L-HEAD V4 3" Bore (Wisconsin Eng.)	2	188 ... Combine	3.1L 188 Diesel L4 3.8125" Bore	22
VE4D ... Hay Baler	1.5L 91.9 L-HEAD V4 3" Bore (Wisconsin Eng.)	2	188 ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
VE4D ... Combine	1.5L 91.9 L-HEAD V4 3" Bore (Wisconsin Eng.)	2	188 ... Windrower	3.1L 188 Diesel L4 3.8125" Bore	22
VE41 ... Hay Baler	1.5L 91.9 L-HEAD V4 3" Bore (Wisconsin Eng.)	2	188 ... Crawler Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
VE41 ... Combine	1.5L 91.9 L-HEAD V4 3" Bore (Wisconsin Eng.)	2	188 ... Wheel Loader	3.1L 188 Diesel L4 3.8125" Bore	22
VF4 ... Hay Baler	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	4	188B ... Combine	3.1L 188 L4 3.8125" Bore (G188B)	21
VF4 ... Combine	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	4	188B ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21
VF4D ... Hay Baler	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	4	188D ... Combine	3.1L 188 Diesel L4 3.8125" Bore	22
VF4D ... Combine	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	4	188D ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
VF41 ... Hay Baler	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	4	188D ... Windrower	3.1L 188 Diesel L4 3.8125" Bore	22
VF41 ... Combine	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	4	188D ... Crawler Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
VG4D ... Harvester	2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.)	15	188D ... Wheel Loader	3.1L 188 Diesel L4 3.8125" Bore	22
VH4 ... Hay Baler	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	4	207 ... Forklift	3.4L 207 Diesel L4 4" Bore	23
VH4 ... Combine	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	4	207 ... Loader	3.4L 207 Diesel L4 4" Bore	23
VH4D ... Hay Baler	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	4	207 ... Wheel Tractor	3.4L 207 Diesel L4 4" Bore	23
VH4D ... Combine	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	4	207 ... Crawler Tractor	3.4L 207 Diesel L4 4" Bore	23
VH4DM ... Hay Baler	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	4	207D ... Wheel Tractor	3.4L 207 Diesel L4 4" Bore	23
VH4DM ... Combine	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	4	251 ... Combine	4.1L 251 L4 4" Bore	28
VM4 ... Hay Baler	2.2L 132.7 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	8	251 ... Wheel Tractor	4.1L 251 L4 4" Bore	28
VP4 ... Harvester	2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.)	15	251 Diesel ... Wheel Tractor	4.1L 251 Diesel L4 4" Bore	29
VP4D ... Harvester	2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.)	15	251B ... Combine	4.1L 251 L4 4" Bore	28
V460D ... Harvester	2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.)	15	251B ... Wheel Tractor	4.1L 251 L4 4" Bore	28
V461D ... Harvester	2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.)	15	251BG ... Wheel Tractor	4.1L 251 L4 4" Bore	28
W106 ... Combine	2.1L 124 L4 3.25" Bore	6	267 ... Combine	4.4L 267 Diesel L4 4.125" Bore	32
W106 ... Wheel Tractor	2.1L 124 L4 3.25" Bore	6	267 ... Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore	32
XAH ... Combine	3.0L 186 L4 3.625" Bore (Waukesha Eng.)	20	267 ... Wheel Loader	4.4L 267 Diesel L4 4.125" Bore	32
124 ... Hay Baler	2.1L 124 L4 3.25" Bore	6	267B ... Combine	4.4L 267 Diesel L4 4.125" Bore	32
124 ... Combine	2.1L 124 L4 3.25" Bore	6	267B ... Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore	32
124 ... Wheel Tractor	2.1L 124 L4 3.25" Bore	6	267B ... Wheel Loader	4.4L 267 Diesel L4 4.125" Bore	32
126 ... Combine	2.1L 126 L4 3.125" Bore	7	284 ... Combine	4.7L 284 L4 4.25" Bore	36
126 ... Wheel Tractor	2.1L 126 L4 3.125" Bore	7	284 ... Wheel Tractor	4.7L 284 L4 4.25" Bore	36
148 ... Combine	2.4L 148 L4 3.375" Bore (G148)	12	284B ... Combine	4.7L 284 L4 4.25" Bore	36
148 ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12	284B ... Wheel Tractor	4.7L 284 L4 4.25" Bore	36
148B ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12	284S ... Combine	4.7L 284 L4 4.25" Bore	36
			284S ... Wheel Tractor	4.7L 284 L4 4.25" Bore	36
			301 ... Wheel Tractor	5.0L 301 Diesel L4 4.375" Bore	39
			301 ... Crawler Tractor	5.0L 301 Diesel L4 4.375" Bore	39
			301 ... Wheel Loader	5.0L 301 Diesel L4 4.375" Bore	39
			301B ... Wheel Tractor	5.0L 301 L4 4.375" Bore	38
			301B ... Wheel Tractor	5.0L 301 Diesel L4 4.375" Bore	39
			301B ... Crawler Tractor	5.0L 301 Diesel L4 4.375" Bore	39
			301B ... Wheel Loader	5.0L 301 Diesel L4 4.375" Bore	39
			301BG ... Combine	5.0L 301 L4 4.375" Bore	38
			301BG ... Wheel Tractor	5.0L 301 L4 4.375" Bore	38
			330 ... Off Highway Truck	10.8L 661 (10800cc) OHV Turbo-Diesel L6 125mm Bore (24 Valve) (Cummins Eng.)	61
			336 ... Wheel Tractor	5.5L 336 Diesel L4 4.625" Bore	41
			336 ... Crawler Tractor	5.5L 336 Diesel L4 4.625" Bore	41
			336 ... Wheel Loader	5.5L 336 Diesel L4 4.625" Bore	41
			336 ... Excavator	5.5L 336 Diesel L4 4.625" Bore	41
			336 ... Wheel Skidder	5.5L 336 Diesel L4 4.625" Bore	41
			336 ... Concrete Placer	5.5L 336 Diesel L4 4.625" Bore	41
			336B ... Wheel Tractor	5.5L 336 Diesel L4 4.625" Bore	41
			336B ... Crawler Tractor	5.5L 336 Diesel L4 4.625" Bore	41
			336B ... Wheel Loader	5.5L 336 Diesel L4 4.625" Bore	41
			336B ... Excavator	5.5L 336 Diesel L4 4.625" Bore	41
			336B ... Wheel Skidder	5.5L 336 Diesel L4 4.625" Bore	41
			336B ... Concrete Placer	5.5L 336 Diesel L4 4.625" Bore	41
			336BD ... Wheel Tractor	5.5L 336 Diesel L4 4.625" Bore	41

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Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
336BD ... Crawler Tractor.....	5.5L 336 Diesel L4 4.625" Bore....	41	504 ... Wheel Loader .....	8.3L 504 Diesel L6 4.625" Bore....	56
336BD ... Wheel Loader .....	5.5L 336 Diesel L4 4.625" Bore....	41	504 ... Excavator.....	8.3L 504 Diesel L6 4.625" Bore....	56
336BD ... Excavator.....	5.5L 336 Diesel L4 4.625" Bore....	41	504 ... Concrete Placer.....	8.3L 504 Diesel L6 4.625" Bore....	56
336BD ... Wheel Skidder .....	5.5L 336 Diesel L4 4.625" Bore....	41	504B ... Wheel Tractor.....	8.3L 504 Diesel L6 4.625" Bore....	56
336BD ... Concrete Placer.....	5.5L 336 Diesel L4 4.625" Bore....	41	504B ... Crawler Tractor .....	8.3L 504 Diesel L6 4.625" Bore....	56
336BDT ... Wheel Tractor.....	5.5L 336 Turbo-Diesel L4 4.625" Bore.....	42	504B ... Wheel Loader.....	8.3L 504 Diesel L6 4.625" Bore....	56
336BDT ... Crawler Tractor.....	5.5L 336 Turbo-Diesel L4 4.625" Bore.....	42	504B ... Excavator .....	8.3L 504 Diesel L6 4.625" Bore....	56
336BDT ... Wheel Loader.....	5.5L 336 Turbo-Diesel L4 4.625" Bore.....	42	504B ... Concrete Placer .....	8.3L 504 Diesel L6 4.625" Bore....	56
336BDT ... Excavator .....	5.5L 336 Turbo-Diesel L4 4.625" Bore.....	42	504BD ... Wheel Tractor.....	8.3L 504 Diesel L6 4.625" Bore....	56
336BDT ... Wheel Skidder.....	5.5L 336 Turbo-Diesel L4 4.625" Bore.....	42	504BD ... Crawler Tractor.....	8.3L 504 Diesel L6 4.625" Bore....	56
336BDT ... Concrete Placer.....	5.5L 336 Turbo-Diesel L4 4.625" Bore.....	42	504BD ... Wheel Loader.....	8.3L 504 Diesel L6 4.625" Bore....	56
377 ... Wheel Tractor.....	6.2L 377 L6 4" Bore (Early) .....	48	504BD ... Excavator.....	8.3L 504 Diesel L6 4.625" Bore....	56
377 ... Wheel Tractor.....	6.2L 377 L6 4" Bore (Late) .....	49	504BD ... Concrete Placer.....	8.3L 504 Diesel L6 4.625" Bore....	56
377 ... Crawler Tractor.....	6.2L 377 L6 4" Bore (Late) .....	49	504BDT ... Combine.....	8.3L 504 Turbo-Diesel L6 4.625" Bore.....	57
377A ... Wheel Tractor.....	6.2L 377 L6 4" Bore (Late) .....	49	504BDT ... Wheel Tractor.....	8.3L 504 Turbo-Diesel L6 4.625" Bore.....	57
377A ... Crawler Tractor .....	6.2L 377 L6 4" Bore (Late) .....	49	504BDT ... Crawler Tractor.....	8.3L 504 Turbo-Diesel L6 4.625" Bore.....	57
377B ... Wheel Tractor.....	6.2L 377 L6 4" Bore (Early) .....	48	504BDT ... Wheel Loader.....	8.3L 504 Turbo-Diesel L6 4.625" Bore.....	57
377D ... Wheel Tractor .....	6.2L 377 Diesel L6 4" Bore.....	50	504BDT ... Excavator .....	8.3L 504 Turbo-Diesel L6 4.625" Bore.....	57
377D ... Crawler Tractor .....	6.2L 377 Diesel L6 4" Bore.....	50	504BDT ... Concrete Placer.....	8.3L 504 Turbo-Diesel L6 4.625" Bore.....	57
4-390 ... Wheel Tractor.....	3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.).....	26	504BDTI ... Wheel Tractor.....	8.3L 504 Turbo-Diesel L6 4.625" Bore.....	57
4T-390 ... Wheel Tractor.....	3.9L 239 (3921cc) OHV Turbo-Diesel L4 102mm Bore (Cummins Eng.).....	27	6.354 ... Wheel Tractor .....	5.8L 354 OHV Diesel L6 3.875" Bore (12 Valve) (Perkins Eng.).....	43
401B ... Wheel Tractor.....	6.6L 401 Diesel L6 4.125" Bore....	51	6-590 ... Wheel Tractor.....	5.9L 359 (5882cc) OHV Diesel L6 102mm Bore (Cummins Eng.).....	44
401B ... Crawler Tractor .....	6.6L 401 Diesel L6 4.125" Bore....	51	6BT5.9 ... Wheel Tractor .....	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.).....	45
401B ... Wheel Loader.....	6.6L 401 Diesel L6 4.125" Bore....	51	6BT5.9 ... Crawler Tractor .....	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.).....	45
401BD ... Wheel Tractor.....	6.6L 401 Diesel L6 4.125" Bore....	51	6T-590 ... Combine.....	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.).....	45
401BD ... Crawler Tractor.....	6.6L 401 Diesel L6 4.125" Bore....	51	6T-590 ... Wheel Tractor.....	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.).....	45
401BD ... Wheel Loader.....	6.6L 401 Diesel L6 4.125" Bore....	51	6T-830 ... Wheel Tractor.....	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.).....	59
401BDT ... Wheel Tractor.....	6.6L 401 Turbo-Diesel L6 4.125" Bore.....	52	6TA-590 ... Combine .....	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.).....	45
401BDT ... Crawler Tractor.....	6.6L 401 Turbo-Diesel L6 4.125" Bore.....	52	6TA-590 ... Wheel Tractor .....	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.).....	45
401BDT ... Wheel Loader.....	6.6L 401 Turbo-Diesel L6 4.125" Bore.....	52	6TA-830 ... Wheel Tractor .....	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.).....	59
401DT ... Wheel Tractor .....	6.6L 401 Turbo-Diesel L6 4.125" Bore.....	52			
451 ... Wheel Tractor .....	7.4L 451 Diesel L6 4.375" Bore....	54			
451B ... Wheel Tractor.....	7.4L 451 Diesel L6 4.375" Bore....	54			
451BD ... Wheel Tractor.....	7.4L 451 Diesel L6 4.375" Bore....	54			
451BDT ... Wheel Tractor.....	7.4L 451 Turbo-Diesel L6 4.375" Bore.....	55			
451BT ... Wheel Tractor .....	7.4L 451 Turbo-Diesel L6 4.375" Bore.....	55			
451DT ... Wheel Tractor .....	7.4L 451 Turbo-Diesel L6 4.375" Bore.....	55			
504 ... Wheel Tractor.....	8.3L 504 Diesel L6 4.625" Bore....	56			
504 ... Crawler Tractor.....	8.3L 504 Diesel L6 4.625" Bore....	56			

**Model Index**

Model	Engine Description	Line No.	Model	Engine Description	Line No.
A ... Combine.....	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.) .....	4	B 8-12 Cut ... Combine.....	3.0L 186 L4 3.625" Bore (Waukesha Eng.).....	20
A ... Combine.....	3.0L 186 L4 3.625" Bore (Waukesha Eng.).....	20	C ... Combine.....	2.2L 133 L-HEAD L4 3.25" Bore (Early) (Waukesha Eng.) .....	9
A ... Combine.....	1.5L 91.9 L-HEAD V4 3" Bore (Wisconsin Eng.) .....	2	C ... Combine.....	2.2L 133 L4 3.25" Bore (Waukesha Eng.) .....	10
A ... Combine.....	1.6L 95 L-HEAD L4 2.75" Bore (Hercules Eng.).....	3	C ... Harvester .....	2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.).....	15
A 8-12 Cut ... Combine.....	3.0L 186 L4 3.625" Bore (Waukesha Eng.).....	20	C ... Wheel Tractor .....	4.3L 260 L4 3.875" Bore.....	30
B ... Combine.....	3.0L 186 L4 3.625" Bore (Waukesha Eng.).....	20	C 8-12 Cut ... Combine.....	4.3L 260 L4 3.875" Bore.....	30
			C-2 ... Harvester .....	2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.) .....	15

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Model Index					
Model	Engine Description	Line No.	Model	Engine Description	Line No.
CB ... Combine	2.2L 133 L-HEAD L4 3.25" Bore (Early) (Waukesha Eng.)	9	MX255 ... Wheel Tractor	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (24 Valve) (Cummins Eng.)	58
CB ... Combine	2.2L 133 L4 3.25" Bore (Waukesha Eng.)	10	MX270 ... Wheel Tractor	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (24 Valve) (Cummins Eng.)	58
CC ... Combine	4.3L 260 L4 3.875" Bore	30	MX285 ... Wheel Tractor	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (24 Valve) (Cummins Eng.)	58
CC ... Wheel Tractor	4.3L 260 L4 3.875" Bore	30	M2 ... Combine	2.1L 124 L4 3.25" Bore	6
CD ... Combine	4.3L 260 L4 3.875" Bore	30	NAP-M ... Hay Baler	2.1L 124 L4 3.25" Bore	6
CD ... Wheel Tractor	4.3L 260 L4 3.875" Bore	30	NCM ... Hay Baler	1.5L 91.9 L-HEAD V4 3" Bore (Wisconsin Eng.)	2
CE ... Combine	4.3L 260 L4 3.875" Bore	30	NCMT ... Hay Baler	1.5L 91.9 L-HEAD V4 3" Bore (Wisconsin Eng.)	2
CE ... Wheel Tractor	4.3L 260 L4 3.875" Bore	30	NT ... Hay Baler	1.5L 91.9 L-HEAD V4 3" Bore (Wisconsin Eng.)	2
CI ... Combine	4.3L 260 L4 3.875" Bore	30	P Prairie ... Combine	4.3L 260 L4 3.875" Bore	30
CI ... Wheel Tractor	4.3L 260 L4 3.875" Bore	30	PT336 ... Wheel Skidder	5.5L 336 Diesel L4 4.625" Bore	41
CO ... Combine	4.3L 260 L4 3.875" Bore	30	PUMA 165 ... Wheel Tractor	6.7L 408 (6691cc) OHV Turbo-Diesel L6 107mm Bore (24 Valve) (Cummins Eng.)	53
CO ... Wheel Tractor	4.3L 260 L4 3.875" Bore	30	PUMA 180 ... Wheel Tractor	6.7L 408 (6691cc) OHV Turbo-Diesel L6 107mm Bore (24 Valve) (Cummins Eng.)	53
CPX610 ... Cotton Picker	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (24 Valve) (Cummins Eng.)	58	PUMA 195 ... Wheel Tractor	6.7L 408 (6691cc) OHV Turbo-Diesel L6 107mm Bore (24 Valve) (Cummins Eng.)	53
CPX620 TO S/N Y6T011701 ... Cotton Picker	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (24 Valve) (Cummins Eng.)	58	PUMA 210 ... Wheel Tractor	6.7L 408 (6691cc) OHV Turbo-Diesel L6 107mm Bore (24 Valve) (Cummins Eng.)	53
D ... Wheel Tractor	4.3L 260 L4 3.875" Bore	30	P336 ... Concrete Placer	5.5L 336 Diesel L4 4.625" Bore	41
DC ... Wheel Tractor	4.3L 260 L4 3.875" Bore	30	P336 ... Concrete Placer	5.5L 336 Turbo-Diesel L4 4.625" Bore	42
DC3 ... Wheel Tractor	4.3L 260 L4 3.875" Bore	30	P504 ... Concrete Placer	8.3L 504 Diesel L6 4.625" Bore	56
DC4 ... Wheel Tractor	4.3L 260 L4 3.875" Bore	30	P504 ... Concrete Placer	8.3L 504 Turbo-Diesel L6 4.625" Bore	57
DE ... Wheel Tractor	4.3L 260 L4 3.875" Bore	30	R ... Wheel Tractor	2.2L 133 L-HEAD L4 3.25" Bore (Early) (Waukesha Eng.)	9
DH ... Wheel Tractor	4.3L 260 L4 3.875" Bore	30	R ... Wheel Tractor	2.2L 133 L4 3.25" Bore (Waukesha Eng.)	10
DI ... Wheel Tractor	4.3L 260 L4 3.875" Bore	30	RC ... Wheel Tractor	2.2L 133 L-HEAD L4 3.25" Bore (Early) (Waukesha Eng.)	9
DIM ... Wheel Tractor	4.3L 260 L4 3.875" Bore	30	RC ... Wheel Tractor	2.2L 133 L4 3.25" Bore (Waukesha Eng.)	10
DO ... Wheel Tractor	4.3L 260 L4 3.875" Bore	30	RI ... Wheel Tractor	2.2L 133 L-HEAD L4 3.25" Bore (Early) (Waukesha Eng.)	9
DS ... Wheel Tractor	4.3L 260 L4 3.875" Bore	30	RI ... Wheel Tractor	2.2L 133 L4 3.25" Bore (Waukesha Eng.)	10
DT34 ... Wheel Tractor	2.6L 157 OHV Diesel L4 3.4375" Bore (Continental Eng.)	16	RO ... Wheel Tractor	2.2L 133 L-HEAD L4 3.25" Bore (Early) (Waukesha Eng.)	9
DV ... Wheel Tractor	4.3L 260 L4 3.875" Bore	30	RO ... Wheel Tractor	2.2L 133 L4 3.25" Bore (Waukesha Eng.)	10
E Series ... Wheel Loader	4.4L 267 Diesel L4 4.125" Bore	32	S ... Wheel Tractor	2.5L 154 L4 3.5" Bore	14
E Series ... Crawler Tractor	5.5L 336 Diesel L4 4.625" Bore	41	SC ... Wheel Tractor	2.5L 154 L4 3.5" Bore	14
E Series ... Wheel Loader	5.5L 336 Diesel L4 4.625" Bore	41	SE ... Wheel Tractor	2.5L 154 L4 3.5" Bore	14
EH ... Grain Elevator	4L 23 L-HEAD L1 3" Bore (Wisconsin Eng.)	1	SI ... Wheel Tractor	2.5L 154 L4 3.5" Bore	14
G ... Combine	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	4	SO ... Wheel Tractor	2.5L 154 L4 3.5" Bore	14
G ... Combine	1.5L 91.9 L-HEAD V4 3" Bore (Wisconsin Eng.)	2	SP Rice ... Combine	4.3L 260 L4 3.875" Bore	30
K ... Combine	2.2L 133 L-HEAD L4 3.25" Bore (Early) (Waukesha Eng.)	9	SP12 ... Combine	4.3L 260 L4 3.875" Bore	30
K ... Combine	2.2L 133 L4 3.25" Bore (Waukesha Eng.)	10	SP9 ... Combine	2.5L 154 L4 3.5" Bore	14
K (Except Prairie) ... Combine	2.1L 124 L4 3.25" Bore	6	SP9 ... Combine	4.3L 260 L4 3.875" Bore	30
MCM ... Hay Baler	1.5L 91.9 L-HEAD V4 3" Bore (Wisconsin Eng.)	2	STX275 ... Wheel Tractor	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (24 Valve) (Cummins Eng.)	58
MXV125 ... Wheel Tractor	6.7L 408 (6691cc) OHV Turbo-Diesel L6 107mm Bore (24 Valve) (Cummins Eng.)	53	SV212 ... Compactor	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (24 Valve) (Cummins Eng.)	47
MXV135 ... Wheel Tractor	6.7L 408 (6691cc) OHV Turbo-Diesel L6 107mm Bore (24 Valve) (Cummins Eng.)	53	SV216 ... Compactor	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (24 Valve) (Cummins Eng.)	47
MX100 ... Wheel Tractor	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.)	45	TB336 ... Wheel Skidder	5.5L 336 Diesel L4 4.625" Bore	41
MX110 ... Wheel Tractor	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.)	45	TB336 ... Concrete Placer	5.5L 336 Diesel L4 4.625" Bore	41
MX120 ... Wheel Tractor	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.)	45			
MX135 ... Wheel Tractor	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.)	45			
MX240 ... Wheel Tractor	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (24 Valve) (Cummins Eng.)	58			

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Model	Engine Description	Line No.	Model	Engine Description	Line No.
TB336 ... Concrete Placer	5.5L 336 Turbo-Diesel L4 4.625" Bore	42	W14H Articulated Loader ... Wheel Loader	5.5L 336 Turbo-Diesel L4 4.625" Bore	42
TB80 ... Concrete Placer	8.3L 504 Diesel L6 4.625" Bore	56	W18 ... Wheel Loader	6.6L 401 Diesel L6 4.125" Bore	51
TB80 ... Concrete Placer	8.3L 504 Turbo-Diesel L6 4.625" Bore	57	W18 ... Wheel Loader	6.6L 401 Turbo-Diesel L6 4.125" Bore	52
T336 ... Wheel Skidder	5.5L 336 Diesel L4 4.625" Bore	41	W18 Articulated Loader ... Wheel Loader	6.6L 401 Diesel L6 4.125" Bore	51
T336 ... Concrete Placer	5.5L 336 Diesel L4 4.625" Bore	41	W18 Articulated Loader ... Wheel Loader	6.6L 401 Turbo-Diesel L6 4.125" Bore	52
T336 ... Concrete Placer	5.5L 336 Turbo-Diesel L4 4.625" Bore	42	W20 ... Wheel Loader	6.6L 401 Diesel L6 4.125" Bore	51
T80 ... Concrete Placer	8.3L 504 Diesel L6 4.625" Bore	56	W20 ... Wheel Loader	6.6L 401 Turbo-Diesel L6 4.125" Bore	52
T80 ... Concrete Placer	8.3L 504 Turbo-Diesel L6 4.625" Bore	57	W20 Articulated Loader ... Wheel Loader	6.6L 401 Diesel L6 4.125" Bore	51
U ... Combine	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	4	W20 Articulated Loader ... Wheel Loader	6.6L 401 Turbo-Diesel L6 4.125" Bore	52
U ... Combine	2.1L 124 L4 3.25" Bore	6	W20 Articulated Loader ... Wheel Loader	6.6L 401 Diesel L6 4.125" Bore	51
U ... Combine	1.5L 91.9 L-HEAD V4 3" Bore (Wisconsin Eng.)	2	W20 Articulated Loader ... Wheel Loader	6.6L 401 Turbo-Diesel L6 4.125" Bore	52
V ... Wheel Tractor	2.1L 124 L-HEAD L4 3" Bore (Continental Eng.)	5	W20B ... Wheel Loader	6.6L 401 Diesel L6 4.125" Bore	51
VA ... Wheel Tractor	2.1L 124 L4 3.25" Bore	6	W20B ... Wheel Loader	6.6L 401 Turbo-Diesel L6 4.125" Bore	52
VAC ... Wheel Tractor	2.1L 124 L4 3.25" Bore	6	W20B Articulated Loader ... Wheel Loader	6.6L 401 Diesel L6 4.125" Bore	51
VAC-14 ... Wheel Tractor	2.1L 124 L4 3.25" Bore	6	W20B Articulated Loader ... Wheel Loader	6.6L 401 Turbo-Diesel L6 4.125" Bore	52
VAE ... Wheel Tractor	2.1L 124 L4 3.25" Bore	6	W20C ... Wheel Tractor	8.3L 504 Diesel L6 4.625" Bore	56
VAH ... Wheel Tractor	2.1L 124 L4 3.25" Bore	6	W24 ... Wheel Loader	8.3L 504 Diesel L6 4.625" Bore	56
VAI ... Wheel Tractor	2.1L 124 L4 3.25" Bore	6	W24 ... Wheel Loader	8.3L 504 Turbo-Diesel L6 4.625" Bore	57
VAO ... Wheel Tractor	2.1L 124 L4 3.25" Bore	6	W24B ... Wheel Loader	8.3L 504 Diesel L6 4.625" Bore	56
VAS ... Wheel Tractor	2.1L 124 L4 3.25" Bore	6	W24B ... Wheel Loader	8.3L 504 Turbo-Diesel L6 4.625" Bore	57
VC ... Wheel Tractor	2.1L 124 L-HEAD L4 3" Bore (Continental Eng.)	5	W24C ... Wheel Loader	8.3L 504 Diesel L6 4.625" Bore	56
VI ... Wheel Tractor	2.1L 124 L-HEAD L4 3" Bore (Continental Eng.)	5	W24C ... Wheel Loader	8.3L 504 Turbo-Diesel L6 4.625" Bore	57
VO ... Wheel Tractor	2.1L 124 L-HEAD L4 3" Bore (Continental Eng.)	5	W26 ... Wheel Tractor	2.1L 126 L4 3.125" Bore	7
V2 ... Combine	4.6L 282 L-HEAD L6 3.75" Bore (Hercules Eng.)	35	W26B ... Wheel Loader	8.3L 504 Diesel L6 4.625" Bore	56
WA106 ... Wheel Tractor	2.1L 124 L4 3.25" Bore	6	W26B ... Wheel Loader	8.3L 504 Turbo-Diesel L6 4.625" Bore	57
W10 ... Wheel Loader	5.0L 301 Diesel L4 4.375" Bore	39	W3 ... Loader	3.1L 188 Diesel L4 3.8125" Bore	22
W10 ... Wheel Loader	6.6L 401 Diesel L6 4.125" Bore	51	W3 ... Wheel Loader	3.1L 188 Diesel L4 3.8125" Bore	22
W10B ... Wheel Loader	6.6L 401 Diesel L6 4.125" Bore	51	W3D ... Wheel Loader	3.1L 188 Diesel L4 3.8125" Bore	22
W10C ... Wheel Loader	6.6L 401 Diesel L6 4.125" Bore	51	W36 ... Wheel Loader	8.3L 504 Diesel L6 4.625" Bore	56
W10E ... Wheel Loader	6.6L 401 Diesel L6 4.125" Bore	51	W36 ... Wheel Loader	8.3L 504 Turbo-Diesel L6 4.625" Bore	57
W10E ... Wheel Loader	6.6L 401 Turbo-Diesel L6 4.125" Bore	52	W36 ... Wheel Loader	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)	59
W11 Articulated Loader ... Loader	3.4L 207 Diesel L4 4" Bore	23	W5 ... Wheel Loader	3.1L 188 Diesel L4 3.8125" Bore	22
W11B ... Wheel Tractor	3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.)	26	W5A ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21
W11B ... Wheel Tractor	3.9L 239 (3921cc) OHV Turbo-Diesel L4 102mm Bore (Cummins Eng.)	27	W5A ... Loader	3.1L 188 Diesel L4 3.8125" Bore	22
W12 ... Wheel Loader	6.6L 401 Diesel L6 4.125" Bore	51	W5A ... Wheel Loader	3.1L 188 Diesel L4 3.8125" Bore	22
W14 ... Wheel Loader	5.5L 336 Diesel L4 4.625" Bore	41	W5AD ... Wheel Loader	3.1L 188 Diesel L4 3.8125" Bore	22
W14 ... Wheel Loader	5.5L 336 Turbo-Diesel L4 4.625" Bore	42	W7 ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
W14 Articulated Loader ... Wheel Loader	5.5L 336 Diesel L4 4.625" Bore	41	W7 ... Wheel Loader	5.0L 301 Diesel L4 4.375" Bore	39
W14 Articulated Loader ... Wheel Loader	5.5L 336 Turbo-Diesel L4 4.625" Bore	42	W7C ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
W14B ... Wheel Tractor	5.9L 359 (5882cc) OHV Diesel L6 102mm Bore (Cummins Eng.)	44	W7C ... Wheel Loader	5.0L 301 Diesel L4 4.375" Bore	39
W14B ... Wheel Tractor	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.)	45	W7C (4WD) ... Wheel Loader	5.0L 301 Diesel L4 4.375" Bore	39
W14C ... Wheel Tractor	5.9L 359 (5882cc) OHV Diesel L6 102mm Bore (Cummins Eng.)	44	W7E ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
W14C ... Wheel Tractor	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.)	45	W7E ... Wheel Loader	5.0L 301 Diesel L4 4.375" Bore	39
W14H ... Wheel Loader	5.5L 336 Diesel L4 4.625" Bore	41	W8 ... Wheel Tractor	6.6L 401 Diesel L6 4.125" Bore	51
W14H ... Wheel Loader	5.5L 336 Turbo-Diesel L4 4.625" Bore	42	W8 ... Wheel Tractor	6.6L 401 Turbo-Diesel L6 4.125" Bore	52
			W8B ... Wheel Loader	6.6L 401 Diesel L6 4.125" Bore	51
			W8C ... Wheel Loader	6.6L 401 Diesel L6 4.125" Bore	51
			W8E ... Wheel Loader	6.6L 401 Diesel L6 4.125" Bore	51
			W8E ... Wheel Loader	6.6L 401 Turbo-Diesel L6 4.125" Bore	52
			W9 ... Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore	32

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Model	Engine Description	Line No.	Model	Engine Description	Line No.
W9 ... Wheel Loader	4.4L 267 Diesel L4 4.125" Bore	32	1085B ... Excavator	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.)	45
W9 ... Wheel Tractor	6.6L 401 Diesel L6 4.125" Bore	51	1085C ... Excavator	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.)	45
W9 ... Wheel Loader	6.6L 401 Diesel L6 4.125" Bore	51	1086B ... Excavator	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.)	45
W9 ... Wheel Tractor	6.6L 401 Turbo-Diesel L6 4.125" Bore	52	1086C ... Excavator	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.)	45
W9 (4WD) ... Wheel Loader	6.6L 401 Diesel L6 4.125" Bore	51	1090 ... Wheel Tractor	7.4L 451 Diesel L6 4.375" Bore	54
W9 Unit Loader ... Wheel Loader	6.6L 401 Diesel L6 4.125" Bore	51	1090 Agri King ... Wheel Tractor	7.4L 451 Diesel L6 4.375" Bore	54
W9A ... Wheel Loader	5.0L 301 Diesel L4 4.375" Bore	39	110 ... Combine	2.1L 124 L4 3.25" Bore	6
W9B ... Wheel Tractor	4.7L 284 L4 4.25" Bore	36	1140 ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17
W9B ... Wheel Tractor	6.6L 401 Diesel L6 4.125" Bore	51	1140 ... Windrower	3.1L 188 Diesel L4 3.8125" Bore	22
W9B ... Wheel Loader	6.6L 401 Diesel L6 4.125" Bore	51	1150 ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17
W9C ... Wheel Loader	6.6L 401 Diesel L6 4.125" Bore	51	1150 ... Windrower	3.1L 188 Diesel L4 3.8125" Bore	22
W9C (4WD) ... Wheel Loader	6.6L 401 Diesel L6 4.125" Bore	51	1150 ... Crawler Tractor	6.6L 401 Diesel L6 4.125" Bore	51
W9E ... Wheel Tractor	6.6L 401 Diesel L6 4.125" Bore	51	1150 ... Crawler Tractor	6.6L 401 Turbo-Diesel L6 4.125" Bore	52
W9E ... Wheel Loader	6.6L 401 Diesel L6 4.125" Bore	51	1150B ... Crawler Tractor	7.4L 451 Diesel L6 4.375" Bore	54
W9E ... Wheel Tractor	6.6L 401 Turbo-Diesel L6 4.125" Bore	52	1150C ... Crawler Tractor	7.4L 451 Diesel L6 4.375" Bore	54
1000 ... Combine	4.4L 267 Diesel L4 4.125" Bore	32	1150E ... Crawler Tractor	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.)	45
1000 ... Combine	4.7L 284 L4 4.25" Bore	36	1150E ... Crawler Tractor	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)	59
1000 ... Combine	4.9L 298 OHV L6 3.75" Bore (Hercules Eng.)	37	1150G ... Crawler Tractor	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.)	45
1000 ... Combine	5.0L 301 L4 4.375" Bore	38	1155 ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17
1000 ... Combine	5.0L 301 Diesel L4 4.375" Bore	39	1155 ... Windrower	3.1L 188 Diesel L4 3.8125" Bore	22
1000 ... Combine	5.2L 318 OHV V8 3.9063" Bore (Chrysler Eng.)	40	1155E ... Crawler Tractor	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.)	45
1000 Rice ... Combine	4.7L 284 L4 4.25" Bore	36	1155E ... Crawler Tractor	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)	59
1000 Rice ... Combine	4.9L 298 OHV L6 3.75" Bore (Hercules Eng.)	37	1160 ... Combine	4.7L 284 L4 4.25" Bore	36
1000 Rice ... Combine	5.0L 301 Diesel L4 4.375" Bore	39	1160 ... Combine	5.0L 301 Diesel L4 4.375" Bore	39
1000 Rice ... Combine	5.2L 318 OHV V8 3.9063" Bore (Chrysler Eng.)	40	1160 ... Combine	5.2L 318 OHV V8 3.9063" Bore (Chrysler Eng.)	40
1010 ... Combine	4.5L 273 OHV V8 3.625" Bore (Chrysler Eng.)	33	1170 ... Wheel Tractor	7.4L 451 Diesel L6 4.375" Bore	54
1010 ... Combine	4.7L 284 L4 4.25" Bore	36	1170 ... Wheel Tractor	7.4L 451 Turbo-Diesel L6 4.375" Bore	55
1010 ... Combine	4.9L 298 OHV L6 3.75" Bore (Hercules Eng.)	37	1170 Agri King ... Wheel Tractor	7.4L 451 Diesel L6 4.375" Bore	54
1010 ... Combine	5.0L 301 Diesel L4 4.375" Bore	39	1175 ... Wheel Tractor	7.4L 451 Diesel L6 4.375" Bore	54
1010 ... Combine	5.2L 318 OHV V8 3.9063" Bore (Chrysler Eng.)	40	1175 ... Wheel Tractor	7.4L 451 Turbo-Diesel L6 4.375" Bore	55
1010 Rice ... Combine	4.7L 284 L4 4.25" Bore	36	1175 Agri King ... Wheel Tractor	7.4L 451 Turbo-Diesel L6 4.375" Bore	55
1010 Rice ... Combine	4.9L 298 OHV L6 3.75" Bore (Hercules Eng.)	37	1187C ... Excavator	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)	59
1010 Rice ... Combine	5.0L 301 Diesel L4 4.375" Bore	39	120 ... Combine	4.4L 267 Diesel L4 4.125" Bore	32
1010 Rice ... Combine	5.2L 318 OHV V8 3.9063" Bore (Chrysler Eng.)	40	1200 ... Wheel Tractor	7.4L 451 Diesel L6 4.375" Bore	54
1030 ... Wheel Tractor	7.4L 451 Diesel L6 4.375" Bore	54	1221E ... Wheel Loader	10.8L 661 (10800cc) OHV Turbo-Diesel L6 125mm Bore (24 Valve) (Cummins Eng.)	61
1030 Confort King ... Wheel Tractor	7.4L 451 Diesel L6 4.375" Bore	54	1221E XR ... Wheel Loader	10.8L 661 (10800cc) OHV Turbo-Diesel L6 125mm Bore (24 Valve) (Cummins Eng.)	61
1030 Construction King ... Wheel Tractor	7.4L 451 Diesel L6 4.375" Bore	54	1255 ... Combine	3.1L 188 L4 3.8125" Bore (G188B)	21
1060 ... Combine	4.5L 273 OHV V8 3.625" Bore (Chrysler Eng.)	33	1255 ... Windrower	3.1L 188 Diesel L4 3.8125" Bore	22
1060 ... Combine	4.7L 284 L4 4.25" Bore	36	1270 ... Wheel Tractor	7.4L 451 Turbo-Diesel L6 4.375" Bore	55
1060 ... Combine	5.0L 301 Diesel L4 4.375" Bore	39			
1060 ... Combine	5.2L 318 OHV V8 3.9063" Bore (Chrysler Eng.)	40			
1060 Rice ... Combine	4.7L 284 L4 4.25" Bore	36			
1060 Rice ... Combine	5.0L 301 Diesel L4 4.375" Bore	39			
1060 Rice ... Combine	5.2L 318 OHV V8 3.9063" Bore (Chrysler Eng.)	40			
1070 ... Wheel Tractor	7.4L 451 Diesel L6 4.375" Bore	54			
1070 Agri King ... Wheel Tractor	6.6L 401 Diesel L6 4.125" Bore	51			
1070 Agri King ... Wheel Tractor	6.6L 401 Turbo-Diesel L6 4.125" Bore	52			
1070 Agri King ... Wheel Tractor	7.4L 451 Turbo-Diesel L6 4.375" Bore	55			

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Model	Engine Description	Line No.	Model	Engine Description	Line No.
1270 Agri King ... Wheel Tractor.....	7.4L 451 Turbo-Diesel L6 4.375" Bore.....	55	1680 ... Combine .....	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.).....	59
1275 ... Combine .....	3.7L 225 OHV L6 3.4063" Bore (Chrysler Eng.) .....	25	1688 ... Combine .....	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.).....	59
1280 ... Excavator.....	8.3L 504 Turbo-Diesel L6 4.625" Bore .....	57	17/27 ... Wheel Tractor.....	4.3L 260 L4 3.875" Bore.....	30
1370 ... Wheel Tractor.....	8.3L 504 Diesel L6 4.625" Bore.....	56	1700 ... Wheel Tractor.....	2.6L 159 L4 3.5" Bore.....	17
1370 ... Wheel Tractor.....	8.3L 504 Turbo-Diesel L6 4.625" Bore.....	57	1700 ... Loader .....	3.1L 188 Diesel L4 3.8125" Bore..	22
1370 Agri King ... Wheel Tractor.....	8.3L 504 Turbo-Diesel L6 4.625" Bore .....	57	1737 ... Wheel Tractor.....	2.6L 159 L4 3.5" Bore.....	17
140 ... Hay Baler.....	1.5L 91.9 L-HEAD V4 3" Bore (Wisconsin Eng.) .....	2	1737 ... Loader .....	3.1L 188 Diesel L4 3.8125" Bore..	22
140W ... Hay Baler .....	1.5L 91.9 L-HEAD V4 3" Bore (Wisconsin Eng.) .....	2	1737 Uni-Loader ... Wheel Tractor.....	2.4L 148 L4 3.375" Bore (G148) ..	12
140W ... Combine.....	1.5L 91.9 L-HEAD V4 3" Bore (Wisconsin Eng.) .....	2	1737 Uni-Loader ... Wheel Tractor.....	2.4L 148 L4 3.375" Bore (G148B) .....	13
1450 ... Crawler Tractor.....	8.3L 504 Diesel L6 4.625" Bore.....	56	1737S ... Wheel Tractor.....	2.6L 159 L4 3.5" Bore.....	17
1450 ... Crawler Tractor.....	8.3L 504 Turbo-Diesel L6 4.625" Bore .....	57	1737S Uni-Loader ... Wheel Tractor.....	2.4L 148 L4 3.375" Bore (G148) ..	12
1450 ... Wheel Loader .....	8.3L 504 Turbo-Diesel L6 4.625" Bore .....	57	1737S Uni-Loader ... Wheel Tractor.....	2.4L 148 L4 3.375" Bore (G148B) .....	13
1450B ... Crawler Tractor .....	8.3L 504 Turbo-Diesel L6 4.625" Bore .....	57	1740 ... Loader .....	3.1L 188 Diesel L4 3.8125" Bore..	22
1470 ... Wheel Tractor.....	8.3L 504 Diesel L6 4.625" Bore.....	56	1740 ... Loader .....	3.4L 207 Diesel L4 4" Bore.....	23
1470 ... Wheel Tractor.....	8.3L 504 Turbo-Diesel L6 4.625" Bore.....	57	1740 Uni-Loader ... Wheel Loader.....	3.1L 188 Diesel L4 3.8125" Bore..	22
1470 Trac King ... Wheel Tractor.....	8.3L 504 Diesel L6 4.625" Bore.....	56	177 ... Hay Baler.....	2.2L 132.7 L-HEAD V4 3.25" Bore (Wisconsin Eng.) .....	8
1470 Trac King ... Wheel Tractor.....	8.3L 504 Turbo-Diesel L6 4.625" Bore .....	57	1800 ... Cotton Picker .....	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.) .....	45
150 ... Combine .....	4.1L 251 L4 4" Bore.....	28	1822 ... Cotton Picker .....	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.) .....	45
1550 ... Crawler Tractor.....	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.).....	59	1835 ... Wheel Tractor.....	2.4L 148 L4 3.375" Bore (G148) ..	12
1570 ... Wheel Tractor.....	8.3L 504 Diesel L6 4.625" Bore.....	56	1835 ... Wheel Tractor .....	2.4L 148 L4 3.375" Bore (G148B) .....	13
1570 ... Wheel Tractor.....	8.3L 504 Turbo-Diesel L6 4.625" Bore .....	57	1835 ... Wheel Loader .....	3.1L 188 Diesel L4 3.8125" Bore..	22
160T ... Hay Baler.....	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.) .....	4	1840 ... Wheel Skidder .....	3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.).....	26
160T ... Combine .....	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.) .....	4	1844 ... Cotton Picker .....	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.).....	59
160W ... Hay Baler .....	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.) .....	4	1845 ... Loader .....	3.1L 188 Diesel L4 3.8125" Bore..	22
160W ... Combine.....	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.) .....	4	1845 ... Loader .....	3.4L 207 Diesel L4 4" Bore.....	23
1640 ... Combine .....	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.) .....	45	1845 Uni-Loader ... Wheel Loader.....	3.1L 188 Diesel L4 3.8125" Bore..	22
1644 ... Combine .....	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.) .....	45	1845C ... Wheel Skidder.....	3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.).....	26
1660 ... Combine .....	5.2L 318 OHV V8 3.9063" Bore (Chrysler Eng.) .....	40	1845S Uni-Loader ... Wheel Loader.....	3.1L 188 Diesel L4 3.8125" Bore..	22
1660 ... Wheel Tractor.....	5.8L 354 OHV Diesel L6 3.875" Bore (12 Valve) (Perkins Eng.).....	43	1855 ... Loader .....	3.4L 207 Diesel L4 4" Bore.....	23
1660 ... Combine .....	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.).....	59	1855 Uni-Loader ... Wheel Loader.....	3.1L 188 Diesel L4 3.8125" Bore..	22
1665 ... Combine .....	5.2L 318 OHV V8 3.9063" Bore (Chrysler Eng.) .....	40	188D Type 1 ... Wheel Tractor.....	3.1L 188 Diesel L4 3.8125" Bore..	22
1665 ... Wheel Tractor.....	5.8L 354 OHV Diesel L6 3.875" Bore (12 Valve) (Perkins Eng.).....	43	188D Type 11 ... Wheel Tractor.....	3.1L 188 Diesel L4 3.8125" Bore..	22
1666 ... Combine .....	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.).....	59	188G Type 1 ... Wheel Tractor.....	3.1L 188 L4 3.8125" Bore (G188B).....	21
1670 ... Combine .....	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.).....	59	188G Type 11 ... Wheel Tractor.....	3.1L 188 L4 3.8125" Bore (G188B).....	21
			188G Type 201 ... Wheel Tractor.....	3.1L 188 L4 3.8125" Bore (G188B).....	21
			1896 ... Wheel Loader .....	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.) .....	45
			200 ... Wheel Tractor.....	2.3L 140 L-HEAD L4 3.1875" Bore (Continental Eng.).....	11
			200B ... Wheel Tractor.....	2.1L 126 L4 3.125" Bore.....	7



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Model	Engine Description	Line No.	Model	Engine Description	Line No.
200B ... Wheel Tractor.....	2.4L 148 L4 3.375" Bore (G148) ..	12	300 ... Wheel Skidder .....	5.5L 336 Diesel L4 4.625" Bore....	41
2022 ... Cotton Picker.....	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.) .....	45	300B ... Wheel Tractor.....	2.4L 148 L4 3.375" Bore (G148) ..	12
2090 ... Wheel Tractor .....	8.3L 504 Turbo-Diesel L6 4.625" Bore .....	57	300B ... Wheel Tractor.....	2.4L 148 L4 3.375" Bore (G148B).....	13
2096 ... Wheel Tractor .....	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.) .....	45	300B ... Wheel Tractor.....	2.6L 157 OHV Diesel L4 3.4375" Bore (Continental Eng.).....	16
210B ... Wheel Tractor.....	2.1L 126 L4 3.125" Bore.....	7	300C ... Wheel Skidder.....	5.5L 336 Diesel L4 4.625" Bore....	41
210B ... Wheel Tractor.....	2.4L 148 L4 3.375" Bore (G148) ..	12	300C ... Wheel Skidder.....	5.5L 336 Turbo-Diesel L4 4.625" Bore .....	42
211B ... Wheel Tractor.....	2.1L 126 L4 3.125" Bore.....	7	301 ... Wheel Tractor .....	2.6L 157 OHV Diesel L4 3.4375" Bore (Continental Eng.).....	16
211B ... Wheel Tractor.....	2.4L 148 L4 3.375" Bore (G148) ..	12	301D Type 1 ... Wheel Tractor.....	5.0L 301 Diesel L4 4.375" Bore....	39
2144 ... Combine .....	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.) .....	45	301D Type 11 ... Wheel Tractor.....	5.0L 301 Diesel L4 4.375" Bore....	39
2290 ... Wheel Tractor .....	8.3L 504 Diesel L6 4.625" Bore....	56	301D Type 111 ... Wheel Tractor.....	5.0L 301 Diesel L4 4.375" Bore....	39
2290 ... Wheel Tractor .....	8.3L 504 Turbo-Diesel L6 4.625" Bore .....	57	302 ... Wheel Tractor .....	2.6L 157 OHV Diesel L4 3.4375" Bore (Continental Eng.).....	16
2294 ... Wheel Tractor .....	8.3L 504 Turbo-Diesel L6 4.625" Bore .....	57	310 ... Wheel Tractor .....	2.4L 148 L4 3.375" Bore (G148) ..	12
2366 ... Combine .....	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.).....	59	310 ... Wheel Tractor .....	2.4L 148 L4 3.375" Bore (G148B).....	13
2390 ... Wheel Tractor .....	8.3L 504 Diesel L6 4.625" Bore....	56	310 ... Wheel Tractor .....	3.1L 188 Diesel L4 3.8125" Bore..	22
2390 ... Wheel Tractor .....	8.3L 504 Turbo-Diesel L6 4.625" Bore .....	57	310 ... Crawler Tractor.....	3.1L 188 Diesel L4 3.8125" Bore..	22
2394 ... Wheel Tractor .....	8.3L 504 Turbo-Diesel L6 4.625" Bore .....	57	310B ... Wheel Tractor.....	2.4L 148 L4 3.375" Bore (G148) ..	12
2470 ... Wheel Tractor .....	8.3L 504 Diesel L6 4.625" Bore....	56	310B ... Wheel Tractor.....	2.4L 148 L4 3.375" Bore (G148B).....	13
2470 ... Wheel Tractor .....	8.3L 504 Turbo-Diesel L6 4.625" Bore .....	57	310B ... Wheel Tractor.....	3.1L 188 Diesel L4 3.8125" Bore..	22
2470 Trac King ... Wheel Tractor.....	8.3L 504 Turbo-Diesel L6 4.625" Bore .....	57	310C ... Wheel Tractor .....	2.4L 148 L4 3.375" Bore (G148) ..	12
2590 ... Wheel Tractor .....	8.3L 504 Diesel L6 4.625" Bore....	56	310C ... Wheel Tractor .....	2.4L 148 L4 3.375" Bore (G148B).....	13
2590 ... Wheel Tractor .....	8.3L 504 Turbo-Diesel L6 4.625" Bore .....	57	310C From Ser. No. 3008188 ... Crawler Tractor.....	3.1L 188 Diesel L4 3.8125" Bore..	22
2594 ... Wheel Tractor .....	8.3L 504 Turbo-Diesel L6 4.625" Bore .....	57	310D ... Wheel Tractor .....	2.4L 148 L4 3.375" Bore (G148) ..	12
2670 ... Wheel Tractor .....	8.3L 504 Diesel L6 4.625" Bore....	56	310D ... Wheel Tractor .....	2.4L 148 L4 3.375" Bore (G148B).....	13
2670 ... Wheel Tractor .....	8.3L 504 Turbo-Diesel L6 4.625" Bore .....	57	310D ... Crawler Tractor .....	3.1L 188 Diesel L4 3.8125" Bore..	22
2670 Trac King ... Wheel Tractor.....	8.3L 504 Turbo-Diesel L6 4.625" Bore .....	57	310E ... Wheel Tractor.....	2.4L 148 L4 3.375" Bore (G148) ..	12
284G Type 1 ... Wheel Tractor.....	4.7L 284 L4 4.25" Bore.....	36	310E ... Wheel Tractor.....	2.4L 148 L4 3.375" Bore (G148B).....	13
284G Type 11 ... Wheel Tractor.....	4.7L 284 L4 4.25" Bore.....	36	310E ... Combine.....	3.1L 188 Diesel L4 3.8125" Bore..	22
284G Type 111 ... Wheel Tractor .....	4.7L 284 L4 4.25" Bore.....	36	310E ... Crawler Tractor .....	3.1L 188 Diesel L4 3.8125" Bore..	22
284L Type 1 ... Wheel Tractor .....	4.7L 284 L4 4.25" Bore.....	36	310F ... Wheel Tractor.....	2.4L 148 L4 3.375" Bore (G148) ..	12
284L Type 11 ... Wheel Tractor .....	4.7L 284 L4 4.25" Bore.....	36	310F ... Wheel Tractor.....	2.4L 148 L4 3.375" Bore (G148B).....	13
284L Type 111 ... Wheel Tractor .....	4.7L 284 L4 4.25" Bore.....	36	310F ... Combine.....	3.1L 188 Diesel L4 3.8125" Bore..	22
284N Type 1 ... Wheel Tractor .....	4.7L 284 L4 4.25" Bore.....	36	310F ... Crawler Tractor.....	3.1L 188 Diesel L4 3.8125" Bore..	22
284N Type 11 ... Wheel Tractor .....	4.7L 284 L4 4.25" Bore.....	36	310G ... Wheel Tractor .....	2.4L 148 L4 3.375" Bore (G148) ..	12
284N Type 111 ... Wheel Tractor.....	4.7L 284 L4 4.25" Bore.....	36	310G ... Wheel Tractor .....	2.4L 148 L4 3.375" Bore (G148B).....	13
300 ... Wheel Tractor.....	2.3L 140 L-HEAD L4 3.1875" Bore (Continental Eng.).....	11	310G ... Combine .....	3.1L 188 Diesel L4 3.8125" Bore..	22
300 ... Wheel Tractor.....	2.4L 148 L4 3.375" Bore (G148) ..	12	310G From Ser. No. 3032031 ... Crawler Tractor.....	3.1L 188 Diesel L4 3.8125" Bore..	22
300 ... Wheel Tractor.....	2.4L 148 L4 3.375" Bore (G148B).....	13	311 ... Wheel Tractor .....	2.4L 148 L4 3.375" Bore (G148) ..	12
300 ... Wheel Tractor.....	2.6L 157 OHV Diesel L4 3.4375" Bore (Continental Eng.).....	16	311 ... Wheel Tractor .....	2.4L 148 L4 3.375" Bore (G148B).....	13
300 ... Wheel Tractor.....	2.6L 162 L-HEAD L4 3.4375" Bore (Continental Eng.).....	18	311 ... Wheel Tractor .....	3.1L 188 Diesel L4 3.8125" Bore..	22
			311B ... Wheel Tractor.....	2.4L 148 L4 3.375" Bore (G148) ..	12
			311B ... Wheel Tractor.....	2.4L 148 L4 3.375" Bore (G148B).....	13
			311B ... Wheel Tractor.....	3.1L 188 Diesel L4 3.8125" Bore..	22
			312 ... Wheel Tractor .....	2.4L 148 L4 3.375" Bore (G148) ..	12
			312 ... Wheel Tractor .....	2.4L 148 L4 3.375" Bore (G148B).....	13
			312 ... Wheel Tractor .....	3.1L 188 Diesel L4 3.8125" Bore..	22
			319 ... Wheel Tractor .....	2.4L 148 L4 3.375" Bore (G148) ..	12
			319 ... Wheel Tractor .....	2.4L 148 L4 3.375" Bore (G148B).....	13
			320 ... Wheel Tractor .....	2.4L 148 L4 3.375" Bore (G148) ..	12
			320 ... Wheel Tractor .....	2.4L 148 L4 3.375" Bore (G148B).....	13

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Model	Engine Description	Line No.	Model	Engine Description	Line No.
320 ... Wheel Tractor	2.6L 157 OHV Diesel L4 3.4375" Bore (Continental Eng.)	16	411B ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12
320 ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17	411B ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13
320 ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22	412 ... Wheel Tractor	4.7L 284 L4 4.25" Bore	36
320 ... Crawler Tractor	3.1L 188 Diesel L4 3.8125" Bore	22	413 ... Wheel Tractor	4.1L 251 L4 4" Bore	28
320B ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12	419 ... Wheel Tractor	4.1L 251 L4 4" Bore	28
320B ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13	420 ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12
320B ... Wheel Tractor	2.6L 157 OHV Diesel L4 3.4375" Bore (Continental Eng.)	16	420 ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13
320B ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17	420 ... Wheel Tractor	2.6L 157 OHV Diesel L4 3.4375" Bore (Continental Eng.)	16
320B ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22	420 ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17
320BD ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12	420 ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21
320BD ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13	420 ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
320BD ... Wheel Tractor	2.6L 157 OHV Diesel L4 3.4375" Bore (Continental Eng.)	16	420 ... Crawler Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
320BD ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17	420B ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12
320BD ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22	420B ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13
330 ... Hay Baler	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	4	420B ... Wheel Tractor	2.6L 157 OHV Diesel L4 3.4375" Bore (Continental Eng.)	16
330 ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12	420B ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17
330 ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13	420B ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21
330 ... Wheel Tractor	2.6L 157 OHV Diesel L4 3.4375" Bore (Continental Eng.)	16	420B ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
330 ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17	420B ... Crawler Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
330 ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22	420BD ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12
3394 ... Wheel Tractor	8.3L 504 Turbo-Diesel L6 4.625" Bore	57	420BD ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13
350 ... Wheel Tractor	2.7L 164 L4 3.5625" Bore	19	420BD ... Wheel Tractor	2.6L 157 OHV Diesel L4 3.4375" Bore (Continental Eng.)	16
350 ... Combine	3.1L 188 Diesel L4 3.8125" Bore	22	420BD ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17
350 ... Crawler Tractor	3.1L 188 Diesel L4 3.8125" Bore	22	420BD ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21
350 ... Crawler Tractor	3.4L 207 Diesel L4 4" Bore	23	420BD ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
350B ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22	420C ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12
350B ... Crawler Tractor	3.1L 188 Diesel L4 3.8125" Bore	22	420C ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13
351 ... Wheel Tractor	2.7L 164 L4 3.5625" Bore	19	420C ... Wheel Tractor	2.6L 157 OHV Diesel L4 3.4375" Bore (Continental Eng.)	16
3594 ... Wheel Tractor	8.3L 504 Turbo-Diesel L6 4.625" Bore	57	420C ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17
40 ... Crawler Tractor	8.3L 504 Turbo-Diesel L6 4.625" Bore	57	420C ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21
400 ... Wheel Tractor	2.6L 162 L-HEAD L4 3.4375" Bore (Continental Eng.)	18	420C ... Combine	3.1L 188 Diesel L4 3.8125" Bore	22
400 ... Wheel Tractor	4.1L 251 L4 4" Bore	28	420C ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
400 ... Wheel Tractor	4.1L 251 Diesel L4 4" Bore	29	420C ... Crawler Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
400 ... Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore	32	420CK ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
400 ... Wheel Skidder	5.5L 336 Diesel L4 4.625" Bore	41	425 ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12
400B ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12	425 ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13
400B ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13	425 ... Wheel Tractor	2.6L 157 OHV Diesel L4 3.4375" Bore (Continental Eng.)	16
400B ... Wheel Tractor	2.6L 157 OHV Diesel L4 3.4375" Bore (Continental Eng.)	16	425 ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17
400C ... Wheel Skidder	5.5L 336 Diesel L4 4.625" Bore	41	425 ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21
400C ... Wheel Skidder	5.5L 336 Turbo-Diesel L4 4.625" Bore	42	425 ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
400D ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22	430 ... Crawler Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
401 ... Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore	32	430 Series ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12
401D ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22	430 Series ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13
401D Type 1 ... Wheel Tractor	6.6L 401 Diesel L6 4.125" Bore	51	430 Series ... Wheel Tractor	2.6L 157 OHV Diesel L4 3.4375" Bore (Continental Eng.)	16
401D Type 11 ... Wheel Tractor	6.6L 401 Diesel L6 4.125" Bore	51	430 Series ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17
401D Type 111 ... Wheel Tractor	6.6L 401 Diesel L6 4.125" Bore	51	430 Series ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21
402 ... Wheel Tractor	5.0L 301 Diesel L4 4.375" Bore	39	430 Series ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
402D ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22	431 ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12
403 ... Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore	32	431 ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13
403D ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22	431 ... Wheel Tractor	2.6L 157 OHV Diesel L4 3.4375" Bore (Continental Eng.)	16
410 ... Wheel Tractor	4.1L 251 L4 4" Bore	28	431 ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17
410B ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12			
410B ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13			
411 ... Wheel Tractor	4.1L 251 L4 4" Bore	28			

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Model	Engine Description	Line No.	Model	Engine Description	Line No.
431 ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21	480 ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
431 ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22	480 ... Crawler Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
4390 ... Power Unit	3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.)	26	480B ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12
440 ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12	480B ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13
440 ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13	480B ... Wheel Tractor	2.6L 157 OHV Diesel L4 3.4375" Bore (Continental Eng.)	16
440 ... Wheel Tractor	2.6L 157 OHV Diesel L4 3.4375" Bore (Continental Eng.)	16	480B ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17
440 ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17	480B ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21
440 ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21	480B ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
440 ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22	480B ... Crawler Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
440 ... Wheel Skidder	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (24 Valve) (Cummins Eng.)	46	480B ... Wheel Tractor	3.4L 207 Diesel L4 4" Bore	23
441 ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12	480C ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12
441 ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13	480C ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13
441 ... Wheel Tractor	2.6L 157 OHV Diesel L4 3.4375" Bore (Continental Eng.)	16	480C ... Wheel Tractor	2.6L 157 OHV Diesel L4 3.4375" Bore (Continental Eng.)	16
441 ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17	480C ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17
441 ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21	480C ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21
441 ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22	480C ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
4490 ... Wheel Tractor	8.3L 504 Diesel L6 4.625" Bore	56	480C ... Crawler Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
4490 ... Wheel Tractor	8.3L 504 Turbo-Diesel L6 4.625" Bore	57	480C ... Wheel Loader	3.1L 188 Diesel L4 3.8125" Bore	22
4494 ... Wheel Tractor	8.3L 504 Turbo-Diesel L6 4.625" Bore	57	480CK ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12
45 ... Excavator	8.3L 504 Turbo-Diesel L6 4.625" Bore	57	480CK ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13
450 ... Combine	3.1L 188 Diesel L4 3.8125" Bore	22	480CK ... Wheel Tractor	2.6L 157 OHV Diesel L4 3.4375" Bore (Continental Eng.)	16
450 ... Crawler Tractor	3.1L 188 Diesel L4 3.8125" Bore	22	480CK ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17
450 ... Crawler Tractor	3.4L 207 Diesel L4 4" Bore	23	480CK ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21
450B ... Crawler Tractor	3.1L 188 Diesel L4 3.8125" Bore	22	480CK ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
450B ... Wheel Tractor	3.4L 207 Diesel L4 4" Bore	23	480E ... Backhoe	3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.)	26
450B ... Crawler Tractor	3.4L 207 Diesel L4 4" Bore	23	480E LL ... Backhoe	3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.)	26
450C ... Crawler Tractor	3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.)	26	480F ... Backhoe	3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.)	26
450C ... Crawler Tractor	3.9L 239 (3921cc) OHV Turbo-Diesel L4 102mm Bore (Cummins Eng.)	27	480F LL ... Backhoe	3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.)	26
455C ... Crawler Tractor	3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.)	26	480LL ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12
455C ... Crawler Tractor	3.9L 239 (3921cc) OHV Turbo-Diesel L4 102mm Bore (Cummins Eng.)	27	480LL ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13
4690 ... Wheel Tractor	8.3L 504 Turbo-Diesel L6 4.625" Bore	57	480LL ... Wheel Tractor	2.6L 157 OHV Diesel L4 3.4375" Bore (Continental Eng.)	16
4694 ... Wheel Tractor	8.3L 504 Turbo-Diesel L6 4.625" Bore	57	480LL ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17
470 Series ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12	480LL ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21
470 Series ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13	480LL ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
470 Series ... Wheel Tractor	2.6L 157 OHV Diesel L4 3.4375" Bore (Continental Eng.)	16	50 ... Crawler Tractor	8.3L 504 Turbo-Diesel L6 4.625" Bore	57
470 Series ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17	500 ... Wheel Tractor	2.6L 162 L-HEAD L4 3.4375" Bore (Continental Eng.)	18
470 Series ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21	500 ... Wheel Tractor	4.1L 251 L4 4" Bore	28
470 Series ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22	500 ... Wheel Tractor	4.1L 251 Diesel L4 4" Bore	29
475 ... Wheel Tractor	5.0L 301 Diesel L4 4.375" Bore	39	500 ... Wheel Tractor	6.2L 377 L6 4" Bore (Early)	48
475 ... Wheel Tractor	5.5L 336 Diesel L4 4.625" Bore	41	500 ... Wheel Tractor	6.2L 377 Diesel L6 4" Bore	50
475 ... Crawler Tractor	5.5L 336 Diesel L4 4.625" Bore	41	500 ... Wheel Tractor	6.6L 401 Diesel L6 4.125" Bore	51
480 ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12	500 Load King ... Crawler Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
480 ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13	500 Load King ... Crawler Tractor	3.4L 207 Diesel L4 4" Bore	23
480 ... Wheel Tractor	2.6L 157 OHV Diesel L4 3.4375" Bore (Continental Eng.)	16	500B ... Wheel Tractor	2.7L 164 L4 3.5625" Bore	19
480 ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17	500D ... Wheel Tractor	2.6L 157 OHV Diesel L4 3.4375" Bore (Continental Eng.)	16
480 ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21	500LK ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21
480 ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22	500LK ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
480 ... Wheel Tractor	5.0L 301 Diesel L4 4.375" Bore	39	510B ... Wheel Tractor	2.7L 164 L4 3.5625" Bore	19
480 ... Wheel Tractor	5.5L 336 Diesel L4 4.625" Bore	41	511B ... Wheel Tractor	2.7L 164 L4 3.5625" Bore	19
480 ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12			
480 ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13			
480 ... Wheel Tractor	2.6L 157 OHV Diesel L4 3.4375" Bore (Continental Eng.)	16			
480 ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17			
480 ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21			

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Model	Engine Description	Line No.	Model	Engine Description	Line No.
5120 ... Wheel Tractor	3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.)	26	541 ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17
5120 ... Wheel Tractor	3.9L 239 (3921cc) OHV Turbo-Diesel L4 102mm Bore (Cummins Eng.)	27	541 ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21
5130 ... Wheel Tractor	5.9L 359 (5882cc) OHV Diesel L6 102mm Bore (Cummins Eng.)	44	541 ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
5130 ... Wheel Tractor	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.)	45	541C ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12
5140 ... Wheel Tractor	5.9L 359 (5882cc) OHV Diesel L6 102mm Bore (Cummins Eng.)	44	541C ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13
5140 ... Wheel Tractor	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.)	45	541C ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17
519 ... Wheel Tractor	6.2L 377 L6 4" Bore (Early)	48	541C ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21
519 ... Wheel Tractor	6.2L 377 L6 4" Bore (Late)	49	541C ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
520 ... Crawler Tractor	6.2L 377 Diesel L6 4" Bore	50	550 ... Wheel Tractor	3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.)	26
5220 ... Wheel Tractor	3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.)	26	550 ... Wheel Tractor	3.9L 239 (3921cc) OHV Turbo-Diesel L4 102mm Bore (Cummins Eng.)	27
5220 ... Wheel Tractor	3.9L 239 (3921cc) OHV Turbo-Diesel L4 102mm Bore (Cummins Eng.)	27	550E ... Crawler Tractor	3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.)	26
5230 ... Wheel Tractor	5.9L 359 (5882cc) OHV Diesel L6 102mm Bore (Cummins Eng.)	44	550E ... Crawler Tractor	3.9L 239 (3921cc) OHV Turbo-Diesel L4 102mm Bore (Cummins Eng.)	27
5230 ... Wheel Tractor	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.)	45	550G ... Crawler Tractor	3.9L 239 (3921cc) OHV Turbo-Diesel L4 102mm Bore (Cummins Eng.)	27
5240 ... Wheel Tractor	5.9L 359 (5882cc) OHV Diesel L6 102mm Bore (Cummins Eng.)	44	570 ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12
5240 ... Wheel Tractor	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.)	45	570 ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13
5250 ... Wheel Tractor	5.9L 359 (5882cc) OHV Diesel L6 102mm Bore (Cummins Eng.)	44	570 ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17
5250 ... Wheel Tractor	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.)	45	570 ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21
530 ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17	570 ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
530 ... Crawler Tractor	3.1L 188 Diesel L4 3.8125" Bore	22	570LXT ... Backhoe	3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.)	26
530 ... Forklift	3.4L 207 Diesel L4 4" Bore	23	580 ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12
530 ... Crawler Tractor	3.4L 207 Diesel L4 4" Bore	23	580 ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13
530 Series ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12	580 ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17
530 Series ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13	580 ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21
530 Series ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17	580 ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
530 Series ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21	580 ... Crawler Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
530 Series ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22	580 ... Crawler Tractor	3.4L 207 Diesel L4 4" Bore	23
531 ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12	580 SUPER E ... Loader	3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.)	26
531 ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13	580 SUPER E ... Loader	3.9L 239 (3921cc) OHV Turbo-Diesel L4 102mm Bore (Cummins Eng.)	27
531 ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17	580B ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12
531 ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21	580B ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13
531 ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22	580B ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17
540 ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12	580B ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21
540 ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13	580B ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
540 ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17	580B ... Crawler Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
540 ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21	580B ... Crawler Tractor	3.4L 207 Diesel L4 4" Bore	23
540 ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22	580B Hydrostatic ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12
540C ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12	580B Hydrostatic ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13
540C ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13	580B Hydrostatic ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17
540C ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17	580B Hydrostatic ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21
540C ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21	580B Hydrostatic ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
540C ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22	580C ... Crawler Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
541 ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12	580C ... Wheel Loader	3.1L 188 Diesel L4 3.8125" Bore	22
541 ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13	580C ... Loader	3.4L 207 Diesel L4 4" Bore	23
			580C ... Wheel Tractor	3.4L 207 Diesel L4 4" Bore	23
			580C ... Crawler Tractor	3.4L 207 Diesel L4 4" Bore	23

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Model	Engine Description	Line No.	Model	Engine Description	Line No.
580CK ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12	610 ... Wheel Tractor	3.4L 209 L-HEAD L6 3.1875" Bore (Continental Eng.)	24
580CK ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13	610 ... Wheel Tractor	6.2L 377 L6 4" Bore (Early)	48
580CK ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17	610 ... Wheel Tractor	6.6L 401 Diesel L6 4.125" Bore	51
580CK ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21	610B ... Wheel Tractor	2.7L 164 L4 3.5625" Bore	19
580CK ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22	611B ... Wheel Tractor	2.7L 164 L4 3.5625" Bore	19
580CK ... Crawler Tractor	3.1L 188 Diesel L4 3.8125" Bore	22	621 ... Wheel Loader	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.)	45
580CK ... Wheel Tractor	3.4L 207 Diesel L4 4" Bore	23	621B ... Wheel Loader	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.)	45
580CK ... Crawler Tractor	3.4L 207 Diesel L4 4" Bore	23	630 ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21
580D ... Wheel Tractor	3.4L 207 Diesel L4 4" Bore	23	630 ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
580D-CK ... Wheel Tractor	3.4L 207 Diesel L4 4" Bore	23	630C ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21
580H ... Backhoe	3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.)	26	630C ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
580K ... Loader	3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.)	26	631 ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21
580K ... Loader	3.9L 239 (3921cc) OHV Turbo-Diesel L4 102mm Bore (Cummins Eng.)	27	631 ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
580L ... Loader	3.9L 239 (3921cc) OHV Turbo-Diesel L4 102mm Bore (Cummins Eng.)	27	631C ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21
580SK ... Loader	3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.)	26	631C ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
580SK ... Loader	3.9L 239 (3921cc) OHV Turbo-Diesel L4 102mm Bore (Cummins Eng.)	27	640 ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21
580SL ... Loader	3.9L 239 (3921cc) OHV Turbo-Diesel L4 102mm Bore (Cummins Eng.)	27	640 ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
584 ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12	641 ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21
584 ... Wheel Tractor	2.4L 148 L4 3.375" Bore (G148B)	13	641 ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
584 ... Wheel Tractor	2.6L 159 L4 3.5" Bore	17	65 ... Combine	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	4
584 ... Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)	21	65 ... Combine	1.5L 91.9 L-HEAD V4 3" Bore (Wisconsin Eng.)	2
584 ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22	650 ... Combine	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	4
584C ... Forklift	3.4L 207 Diesel L4 4" Bore	23	650 ... Crawler Tractor	3.9L 239 (3921cc) OHV Turbo-Diesel L4 102mm Bore (Cummins Eng.)	27
584E ... Loader	3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.)	26	650G ... Crawler Tractor	3.9L 239 (3921cc) OHV Turbo-Diesel L4 102mm Bore (Cummins Eng.)	27
585 ... Forklift	3.4L 207 Diesel L4 4" Bore	23	6500 ... Windrower	3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.)	26
585C ... Forklift	3.4L 207 Diesel L4 4" Bore	23	6590 ... Power Unit	5.9L 359 (5882cc) OHV Diesel L6 102mm Bore (Cummins Eng.)	44
585E ... Loader	3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.)	26	6590T ... Power Unit	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.)	45
586 ... Forklift	3.4L 207 Diesel L4 4" Bore	23	6590TA ... Power Unit	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.)	45
586C ... Forklift	3.4L 207 Diesel L4 4" Bore	23	6591TA ... Power Unit	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.)	45
586E ... Loader	3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.)	26	660 ... Combine	3.1L 188 L4 3.8125" Bore (G188B)	21
590SL ... Loader	3.9L 239 (3921cc) OHV Turbo-Diesel L4 102mm Bore (Cummins Eng.)	27	660 ... Combine	3.1L 188 Diesel L4 3.8125" Bore	22
600 ... Combine	3.1L 188 L4 3.8125" Bore (G188B)	21	660 ... Trencher	3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.)	26
600 ... Combine	3.1L 188 Diesel L4 3.8125" Bore	22	680 ... Wheel Tractor	4.1L 251 L4 4" Bore	28
600 ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22	680 ... Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore	32
600 ... Wheel Tractor	3.4L 209 L-HEAD L6 3.1875" Bore (Continental Eng.)	24	680 ... Wheel Loader	4.4L 267 Diesel L4 4.125" Bore	32
600 ... Combine	3.7L 225 OHV L6 3.4063" Bore (Chrysler Eng.)	25	680 ... Wheel Tractor	5.0L 301 L4 4.375" Bore	38
600 ... Wheel Tractor	4.1L 251 Diesel L4 4" Bore	29	680 ... Wheel Tractor	5.0L 301 Diesel L4 4.375" Bore	39
600 ... Wheel Skidder	5.5L 336 Diesel L4 4.625" Bore	41	680B ... Wheel Loader	4.4L 267 Diesel L4 4.125" Bore	32
600 ... Wheel Skidder	5.5L 336 Turbo-Diesel L4 4.625" Bore	42	680C ... Wheel Loader	5.0L 301 Diesel L4 4.375" Bore	39
600 ... Wheel Tractor	6.2L 377 Diesel L6 4" Bore	50	680C KE ... Wheel Tractor	5.5L 336 Diesel L4 4.625" Bore	41
600 Bean Special ... Combine	3.1L 188 L4 3.8125" Bore (G188B)	21	680CK ... Wheel Tractor	4.1L 251 L4 4" Bore	28
600 Bean Special ... Combine	3.1L 188 Diesel L4 3.8125" Bore	22	680CK ... Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore	32
600B ... Wheel Tractor	2.7L 164 L4 3.5625" Bore	19	680CK ... Wheel Loader	4.4L 267 Diesel L4 4.125" Bore	32
6000 ... Windrower	3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.)	26	680CK ... Wheel Tractor	5.0L 301 L4 4.375" Bore	38
610 ... Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	22	680CK ... Wheel Tractor	5.0L 301 Diesel L4 4.375" Bore	39

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Model	Engine Description	Line No.	Model	Engine Description	Line No.
680CK ... Wheel Loader	5.0L 301 Diesel L4 4.375" Bore	39	7240 ... Wheel Tractor	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)	59
680CK-B ... Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore	32	7250 ... Wheel Tractor	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)	59
680H Construction King ... Wheel Tractor	5.5L 336 Diesel L4 4.625" Bore	41	730 ... Wheel Tractor	4.1L 251 L4 4" Bore	28
680K ... Loader	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.)	45	730 ... Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore	32
680L ... Loader	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.)	45	730 Eagle Hitch ... Wheel Tractor	4.1L 251 L4 4" Bore	28
6830T ... Power Unit	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)	59	730 Eagle Hitch ... Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore	32
6830TA ... Power Unit	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)	59	730 Orchard ... Wheel Tractor	4.1L 251 L4 4" Bore	28
6831T ... Power Unit	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)	59	730 Orchard ... Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore	32
6831TA ... Power Unit	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)	59	730CK ... Wheel Tractor	4.1L 251 L4 4" Bore	28
688 ... Excavator	3.9L 239 (3921cc) OHV Turbo-Diesel L4 102mm Bore (Cummins Eng.)	27	730CK ... Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore	32
700 ... Combine	3.7L 225 OHV L6 3.4063" Bore (Chrysler Eng.)	25	740 ... Wheel Tractor	4.1L 251 L4 4" Bore	28
700 Rice ... Combine	3.7L 225 OHV L6 3.4063" Bore (Chrysler Eng.)	25	740 ... Wheel Tractor	4.1L 251 Diesel L4 4" Bore	29
700B ... Wheel Tractor	4.1L 251 L4 4" Bore	28	740 ... Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore	32
700B ... Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore	32	75 ... Combine	1.5L 91.9 L-HEAD V4 3" Bore (Wisconsin Eng.)	2
701B ... Wheel Tractor	4.1L 251 L4 4" Bore	28	750 To Ser. No. 7070350 ... Crawler Tractor	5.0L 301 Diesel L4 4.375" Bore	39
702B ... Wheel Tractor	4.1L 251 L4 4" Bore	28	760 ... Trencher	3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.)	26
703B ... Wheel Tractor	4.1L 251 L4 4" Bore	28	77 ... Combine	2.1L 126 L4 3.125" Bore	7
705B ... Wheel Tractor	4.1L 251 L4 4" Bore	28	77 ... Combine	2.4L 148 L4 3.375" Bore (G148)	12
710B ... Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore	32	770 ... Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore	32
711B ... Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore	32	770 Agri King ... Wheel Tractor	4.1L 251 L4 4" Bore	28
7110 ... Wheel Tractor	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)	59	770 Agri King ... Wheel Tractor	4.1L 251 Diesel L4 4" Bore	29
712B ... Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore	32	770 Agri King ... Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore	32
7120 ... Wheel Tractor	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)	59	780 ... Crawler Tractor	5.5L 336 Diesel L4 4.625" Bore	41
713B ... Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore	32	780B ... Wheel Tractor	5.5L 336 Turbo-Diesel L4 4.625" Bore	42
7130 ... Wheel Tractor	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)	59	780C ... Loader	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.)	45
7140 ... Wheel Tractor	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)	59	780CK ... Wheel Tractor	5.5L 336 Diesel L4 4.625" Bore	41
715B ... Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore	32	780CK ... Wheel Loader	5.5L 336 Diesel L4 4.625" Bore	41
7150 ... Wheel Tractor	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)	59	780CK ... Wheel Loader	5.5L 336 Turbo-Diesel L4 4.625" Bore	42
721 ... Loader	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)	59	780D ... Loader	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.)	45
721B ... Loader	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)	59	8-12 Cut ... Combine	3.0L 186 L4 3.625" Bore (Waukesha Eng.)	20
7210 ... Wheel Tractor	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)	59	8-12 Cut ... Combine	4.3L 260 L4 3.875" Bore	30
7211 ... Wheel Tractor	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)	59	80 ... Combine	2.1L 126 L4 3.125" Bore	7
7220 ... Wheel Tractor	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)	59	80 ... Combine	2.4L 148 L4 3.375" Bore (G148)	12
7230 ... Wheel Tractor	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)	59	800 ... Combine	4.1L 251 L4 4" Bore	28
			800 ... Combine	4.4L 267 Diesel L4 4.125" Bore	32
			800 ... Wheel Tractor	4.5L 277 OHV Diesel L4 4" Bore (Continental Eng.)	34
			800 ... Crawler Tractor	5.5L 336 Diesel L4 4.625" Bore	41
			800 ... Wheel Loader	5.5L 336 Diesel L4 4.625" Bore	41
			800 ... Wheel Skidder	5.5L 336 Diesel L4 4.625" Bore	41
			800 ... Wheel Skidder	5.5L 336 Turbo-Diesel L4 4.625" Bore	42
			800 ... Wheel Loader	6.6L 401 Diesel L6 4.125" Bore	51
			800B ... Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore	32
			801 ... Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore	32
			802B ... Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore	32
			803B ... Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore	32
			810 ... Wheel Tractor	4.3L 260 OHV Diesel L4 3.875" Bore (Continental Eng.)	31

Model Index					
Model	Engine Description	Line No.	Model	Engine Description	Line No.
810 ... Wheel Tractor.....	4.5L 277 OHV Diesel L4 4" Bore (Continental Eng.).....	34	865VHP ... Grader.....	6.7L 408 (6691cc) OHV Turbo-Diesel L6 107mm Bore (24 Valve) (Cummins Eng.).....	53
810B ... Wheel Tractor.....	4.1L 251 L4 4" Bore.....	28	870 ... Wheel Tractor.....	5.0L 301 L4 4.375" Bore.....	38
811B ... Wheel Tractor.....	4.1L 251 L4 4" Bore.....	28	870 ... Wheel Tractor.....	5.5L 336 Diesel L4 4.625" Bore....	41
812B ... Wheel Tractor.....	4.1L 251 L4 4" Bore.....	28	870 ... Wheel Tractor.....	5.5L 336 Turbo-Diesel L4 4.625" Bore.....	42
813B ... Wheel Tractor.....	4.1L 251 L4 4" Bore.....	28	870 Agri King ... Wheel Tractor.....	5.0L 301 L4 4.375" Bore.....	38
821 ... Wheel Loader.....	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.).....	59	870 Agri King ... Wheel Tractor.....	5.5L 336 Diesel L4 4.625" Bore....	41
821B ... Wheel Loader.....	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.).....	59	880 ... Crawler Tractor.....	5.5L 336 Diesel L4 4.625" Bore....	41
825 ... Wheel Skidder.....	5.5L 336 Diesel L4 4.625" Bore....	41	880 ... Excavator.....	5.5L 336 Diesel L4 4.625" Bore....	41
825 ... Wheel Skidder.....	5.5L 336 Turbo-Diesel L4 4.625" Bore.....	42	880 ... Crawler Tractor.....	5.5L 336 Turbo-Diesel L4 4.625" Bore.....	42
830 ... Wheel Tractor.....	4.7L 284 L4 4.25" Bore.....	36	880 ... Excavator.....	5.5L 336 Turbo-Diesel L4 4.625" Bore.....	42
830 ... Wheel Tractor.....	5.0L 301 L4 4.375" Bore.....	38	880B ... Excavator.....	5.5L 336 Diesel L4 4.625" Bore....	41
830 ... Wheel Tractor.....	5.0L 301 Diesel L4 4.375" Bore....	39	880B ... Excavator.....	5.5L 336 Turbo-Diesel L4 4.625" Bore.....	42
830 Eagle Hitch ... Wheel Tractor.....	4.7L 284 L4 4.25" Bore.....	36	880C ... Wheel Loader.....	8.3L 504 Diesel L6 4.625" Bore....	56
830 Eagle Hitch ... Wheel Tractor.....	5.0L 301 Diesel L4 4.375" Bore....	39	880C ... Wheel Tractor.....	8.3L 504 Turbo-Diesel L6 4.625" Bore.....	57
830C ... Wheel Tractor.....	4.7L 284 L4 4.25" Bore.....	36	880D ... Excavator.....	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.).....	45
830C ... Wheel Tractor.....	5.0L 301 Diesel L4 4.375" Bore....	39	8820 ... Windrower.....	3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.).....	26
830CK ... Wheel Tractor.....	4.7L 284 L4 4.25" Bore.....	36	8830 ... Windrower.....	3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.).....	26
830CK ... Wheel Tractor.....	5.0L 301 Diesel L4 4.375" Bore....	39	8840 ... Windrower.....	3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.).....	26
840 ... Wheel Tractor.....	4.7L 284 L4 4.25" Bore.....	36	885 ... Grader.....	6.7L 408 (6691cc) OHV Turbo-Diesel L6 107mm Bore (24 Valve) (Cummins Eng.).....	53
840 ... Wheel Tractor.....	5.0L 301 Diesel L4 4.375" Bore....	39	8850 ... Windrower.....	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.).....	45
845DHP ... Grader.....	6.7L 408 (6691cc) OHV Turbo-Diesel L6 107mm Bore (24 Valve) (Cummins Eng.).....	53	888 ... Excavator.....	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.).....	45
850 ... Wheel Tractor.....	4.7L 284 L4 4.25" Bore.....	36	8910 ... Wheel Tractor.....	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.).....	59
850 ... Wheel Tractor.....	5.0L 301 Diesel L4 4.375" Bore....	39	8920 ... Wheel Tractor.....	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.).....	59
850 ... Crawler Tractor.....	5.0L 301 Diesel L4 4.375" Bore....	39	8930 ... Wheel Tractor.....	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.).....	59
850 ... Wheel Tractor.....	5.5L 336 Diesel L4 4.625" Bore....	41	8940 ... Wheel Tractor.....	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.).....	59
850C ... Crawler Tractor.....	5.5L 336 Diesel L4 4.625" Bore....	41	8950 ... Wheel Tractor.....	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.).....	59
850D ... Crawler Tractor.....	5.9L 359 (5882cc) OHV Diesel L6 102mm Bore (Cummins Eng.).....	44	900 ... Combine.....	3.7L 225 OHV L6 3.4063" Bore (Chrysler Eng.).....	25
850D ... Wheel Tractor.....	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.).....	45	900 ... Wheel Tractor.....	4.1L 251 Diesel L4 4" Bore.....	29
850D ... Crawler Tractor.....	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.).....	45	900 Series ... Wheel Tractor..	6.2L 377 Diesel L6 4" Bore.....	50
850E ... Crawler Tractor.....	5.9L 359 (5882cc) OHV Diesel L6 102mm Bore (Cummins Eng.).....	44	9010 ... Excavator.....	3.9L 239 (3921cc) OHV Turbo-Diesel L4 102mm Bore (Cummins Eng.).....	27
850E ... Crawler Tractor.....	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.).....	45	9010B ... Excavator.....	3.9L 239 (3921cc) OHV Turbo-Diesel L4 102mm Bore (Cummins Eng.).....	27
850G ... Crawler Tractor.....	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.).....	45	9020 ... Excavator.....	3.9L 239 (3921cc) OHV Turbo-Diesel L4 102mm Bore (Cummins Eng.).....	27
855B ... Grader.....	6.7L 408 (6691cc) OHV Turbo-Diesel L6 107mm Bore (24 Valve) (Cummins Eng.).....	53	9020B ... Excavator.....	3.9L 239 (3921cc) OHV Turbo-Diesel L4 102mm Bore (Cummins Eng.).....	27
855D ... Crawler Tractor.....	5.9L 359 (5882cc) OHV Diesel L6 102mm Bore (Cummins Eng.).....	44			
855D ... Crawler Tractor.....	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.).....	45			
855E ... Crawler Tractor.....	5.9L 359 (5882cc) OHV Diesel L6 102mm Bore (Cummins Eng.).....	44			
855E ... Crawler Tractor.....	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.).....	45			
860 ... Trencher.....	3.9L 239 (3921cc) OHV Turbo-Diesel L4 102mm Bore (Cummins Eng.).....	27			
865 DHP ... Grader.....	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (24 Valve) (Cummins Eng.).....	47			

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Model	Engine Description	Line No.	Model	Engine Description	Line No.
9030 ... Excavator.....	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.) .....	45	930CK Special ... Wheel Tractor.....	6.2L 377 L6 4" Bore (Late) .....	49
9030B ... Excavator .....	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.) .....	45	930GB ... Wheel Tractor.....	6.6L 401 Diesel L6 4.125" Bore....	51
9040 ... Excavator.....	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.).....	59	930G ... Crawler Tractor.....	6.6L 401 Diesel L6 4.125" Bore....	51
9040B ... Excavator .....	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.).....	59	930GP ... Crawler Tractor.....	6.6L 401 Diesel L6 4.125" Bore....	51
910B ... Wheel Tractor.....	4.1L 251 L4 4" Bore.....	28	930WS ... Wheel Tractor .....	6.2L 377 L6 4" Bore (Early) .....	48
910B ... Wheel Tractor.....	6.6L 401 Diesel L6 4.125" Bore....	51	930WS ... Wheel Tractor .....	6.2L 377 L6 4" Bore (Late) .....	49
9110 ... Wheel Tractor.....	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.).....	59	930WS ... Crawler Tractor .....	6.2L 377 L6 4" Bore (Late) .....	49
9130 ... Wheel Tractor.....	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.).....	59	930WS ... Wheel Tractor .....	6.6L 401 Diesel L6 4.125" Bore....	51
9150 ... Wheel Tractor.....	10.0L 611 (10000cc) OHV Turbo-Diesel L6 125mm Bore (24 Valve) (Cummins Eng.) .....	60	930WS ... Crawler Tractor .....	6.6L 401 Diesel L6 4.125" Bore....	51
9170 ... Wheel Tractor.....	14.0L 855 OHV Turbo-Diesel L6 5.5" Bore (Cummins Eng.).....	62	931CK ... Wheel Tractor.....	6.6L 401 Diesel L6 4.125" Bore....	51
9180 ... Wheel Tractor.....	14.0L 855 OHV Turbo-Diesel L6 5.5" Bore (Cummins Eng.).....	62	931CK Draft-O-Matic ... Wheel Tractor .....	6.2L 377 L6 4" Bore (Early) .....	48
920 ... Wheel Tractor .....	4.1L 251 Diesel L4 4" Bore.....	29	931CK Draft-O-Matic ... Wheel Tractor .....	6.2L 377 L6 4" Bore (Late) .....	49
920 ... Wheel Tractor.....	6.6L 401 Diesel L6 4.125" Bore....	51	9310 ... Wheel Tractor .....	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.).....	59
921C ... Wheel Loader.....	10.8L 661 (10800cc) OHV Turbo-Diesel L6 125mm Bore (24 Valve) (Cummins Eng.) .....	61	9330 ... Wheel Tractor.....	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.).....	59
921E ... Wheel Loader.....	10.8L 661 (10800cc) OHV Turbo-Diesel L6 125mm Bore (24 Valve) (Cummins Eng.) .....	61	940 ... Wheel Tractor .....	6.2L 377 L6 4" Bore (Early) .....	48
9210 ... Wheel Tractor.....	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.).....	59	940 ... Wheel Tractor.....	6.2L 377 L6 4" Bore (Late) .....	49
9230 ... Wheel Tractor.....	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.).....	59	940 ... Wheel Tractor.....	6.6L 401 Diesel L6 4.125" Bore....	51
9240 ... Wheel Tractor.....	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.).....	59	955 ... Wheel Tractor.....	2.6L 159 L4 3.5" Bore.....	17
9250 ... Wheel Tractor.....	10.0L 611 (10000cc) OHV Turbo-Diesel L6 125mm Bore (24 Valve) (Cummins Eng.) .....	60	960 ... Combine .....	3.7L 225 OHV L6 3.4063" Bore (Chrysler Eng.) .....	25
930 ... Wheel Tractor.....	4.1L 251 Diesel L4 4" Bore.....	29	960 Rice ... Combine.....	3.7L 225 OHV L6 3.4063" Bore (Chrysler Eng.) .....	25
930 ... Wheel Tractor.....	6.2L 377 L6 4" Bore (Early) .....	48	970 ... Wheel Tractor.....	6.6L 401 Diesel L6 4.125" Bore....	51
930 ... Wheel Tractor.....	6.2L 377 L6 4" Bore (Late) .....	49	970 ... Wheel Tractor.....	6.6L 401 Turbo-Diesel L6 4.125" Bore .....	52
930 ... Wheel Tractor.....	6.6L 401 Diesel L6 4.125" Bore....	51	970 Agri King ... Wheel Tractor.....	6.2L 377 L6 4" Bore (Early) .....	48
930 ... Crawler Tractor.....	6.6L 401 Diesel L6 4.125" Bore....	51	970 Agri King ... Wheel Tractor.....	6.2L 377 L6 4" Bore (Late) .....	49
930CK ... Wheel Tractor .....	6.2L 377 L6 4" Bore (Early) .....	48	970 Agri King ... Wheel Tractor.....	6.6L 401 Diesel L6 4.125" Bore....	51
930CK ... Wheel Tractor .....	6.2L 377 L6 4" Bore (Late) .....	49	970 Agri King ... Wheel Tractor.....	6.6L 401 Turbo-Diesel L6 4.125" Bore .....	52
930CK ... Wheel Tractor .....	6.6L 401 Diesel L6 4.125" Bore....	51	970 Agri King ... Wheel Tractor.....	7.4L 451 Turbo-Diesel L6 4.375" Bore .....	55
930CK Draft-O-Matic ... Wheel Tractor .....	6.2L 377 L6 4" Bore (Early) .....	48	980 ... Excavator.....	8.3L 504 Diesel L6 4.625" Bore....	56
930CK Draft-O-Matic ... Wheel Tractor .....	6.2L 377 L6 4" Bore (Late) .....	49	980 ... Combine .....	8.3L 504 Turbo-Diesel L6 4.625" Bore .....	57
930CK Draft-O-Matic ... Wheel Tractor .....	6.6L 401 Diesel L6 4.125" Bore....	51	980 ... Crawler Tractor.....	8.3L 504 Turbo-Diesel L6 4.625" Bore .....	57
930CK Special ... Wheel Tractor.....	6.2L 377 L6 4" Bore (Early) .....	48	980 ... Wheel Loader .....	8.3L 504 Turbo-Diesel L6 4.625" Bore .....	57
			980 ... Excavator.....	8.3L 504 Turbo-Diesel L6 4.625" Bore .....	57
			980B ... Excavator .....	8.3L 504 Diesel L6 4.625" Bore....	56
			980B ... Combine.....	8.3L 504 Turbo-Diesel L6 4.625" Bore .....	57
			980B ... Excavator .....	8.3L 504 Turbo-Diesel L6 4.625" Bore .....	57



**Grain Elevator A2, AE, AEH, AEHS, AEM, AEN, AEND, AENL, AENLD, AENS, AES, 1**  
**HAENL Eng.s.**  
 .4L 23 L-HEAD L1, 3" Bore (Wisconsin Eng.)

**CYL. HEAD & PARTS**

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
2	Intake	FP-V816		AEND Eng.s.; Valves w/single groove stem can be substituted in Early Eng.s.; 1.3130" Head Dia., .3085" Stem Dia., 4.7660" O.A.L.
2	Intake	FP-V816		Exh. & Int.; Exc. AEND Eng.s.; Note: valves w/single groove stem can be substituted in Early Eng.s.; AE series; To Ser. No. 70194 having valves w/drilled stem if valve keeper VK-144 and spring retainer are also installed w/this valve; 1.3130" Head Dia., .3085" Stem Dia., 4.7660" O.A.L.
2	Exhaust	FP-V1326X		AEND Eng.s.; Valves w/single groove stem can be substituted in Early Eng.s.; 1.2500" Head Dia., .3085" Stem Dia., 4.7710" O.A.L.
2	Exhaust	FP-V1326X		Optional-H/D valve w/single groove stem; Exc. AEND Eng.s.; 1.2500" Head Dia., .3085" Stem Dia., 4.7710" O.A.L.
2	Exhaust	FP-V1326X		Optional-H/D valve w/single groove stem; Exc. AEND Eng.s.; 1.2500" Head Dia., .3085" Stem Dia., 4.7710" O.A.L.
4	Keeper	VK-144		1 groove; Square cut key groove
4	Keeper	VK-144R		1 groove; Square cut key groove; Hardened
QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
2	Exh.	FP-24513755		1.3795" OD, 1.1250" ID, .2636" Depth
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
2	Guide	FP-VG635		Exc. AEND & AE Eng.s.; .3155" ID, 2.5000" O.A.L.
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
2	Spring	FP-VS793		Use w/FP-RC45 rotocap; 1.9700" Free Height
2	Spring	FP-VS468		2.3120" Free Height

**CRANKSHAFT/OIL PUMP**

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
2	Cone Taper Brg.	14130		Position 1-2; Tapered roller brg. cone
2	Cup Taper Brg.	14276		Position 1-2; Tapered roller brg. cup

**CYLINDER COMPONENTS**

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
1	Rod Pair	FP-3600SB	Std-10-20-30-40	Exc. AES Eng.s.
QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
1	Premium Set	FP-5090KX	Std-20-30	3-3/32, 1-3/16 (1 cyl. set)
1	Premium Set	5090KX + Std Only		3-3/32, 1-3/16 (1 cyl. set); When depleted use FP-5090KX
1	Standard Set	FP-5090X	Std Only	3-3/32, 1-3/16 (1 cyl. set)

**Hay Baler VE4, VE4D, VE41 Eng.s. Combine VE4, VE4D, VE41 Eng.s. 2**  
 1.5L 91.9 L-HEAD V4, 3" Bore (Wisconsin Eng.)

**CYL. HEAD & PARTS**

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
2	Intake	FP-V816		Exh. & Int.; Note: Valves w/single groove stem can be substituted in Early Eng.s.; AE series To Ser. No. 70194 having valves w/drilled stem if valve keeper VK-144 and spring retainer are also installed w/this valve; 1.3130" Head Dia., .3085" Stem Dia., 4.7660" O.A.L.
2	Exhaust	FP-V1326X		Optional-H/D valve; 1.2500" Head Dia., .3085" Stem Dia., 4.7710" O.A.L.
16	Keeper	VK-144		1 groove; Square cut key groove
16	Keeper	VK-144R		1 groove; Square cut key groove; Hardened
QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	FP-24513755		1.3795" OD, 1.1250" ID, .2636" Depth
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
8	Guide	FP-VG681		.439" x 1.812"; .3133" ID, 1.8100" O.A.L.
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-VS793		Use w/FP-RC45 rotocap; 1.9700" Free Height
8	Spring	FP-VS468		2.3120" Free Height

**CAMSHAFT GROUP**

QTY	TIMING	PART NO.	SIZE	DESCRIPTION
1	Cam Gear	FP-2214108		Replaces O.E. No. GB-45A; 48 Teeth

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**2 Hay Baler VE4, VE4D, VE41 Engs. Combine VE4, VE4D, VE41 Engs.**  
(cont.) 1.5L 91.9 L-HEAD V4, 3" Bore (Wisconsin Eng.)

**CYLINDER COMPONENTS**

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Repair Sleeve	FP-SL7M	Std Only	3/32" wall, must be cut to correct length
QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Pin Bushing	FP-1394 *		1.000" max. length
4	Pin Bushing	1394		1.000" max. length
QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	FP-3520CP	Std-10-20	
QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Premium Set	FP-5090KX	Std-20-30	3-3/32, 1-3/16 (1 cyl. set)
4	Premium Set	5090KX + Std Only		3-3/32, 1-3/16 (1 cyl. set); When depleted use FP-5090KX
1	Standard Set	FP-968X	Std Only	3-3/32, 1-3/16
4	Standard Set	FP-5090X	Std Only	3-3/32, 1-3/16 (1 cyl. set)

**3 Combine IXF3 Eng. (Gas)**  
1.6L 95 L-HEAD L4, 2.75" Bore (Hercules Eng.)

**CYLINDER COMPONENTS**

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	FP-1450SB	Std-10-20-30	

**4 Hay Baler VF4, VF4D, VF41, VH4, VH4D, VH4DM Engs. Combine VF4, VF4D, VF41, VH4, VH4D, VH4DM Engs.**  
1.8L 108 L-HEAD V4, 3.25" Bore (Wisconsin Eng.)

**CYL. HEAD & PARTS**

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
8	Intake	FP-V816		Exh. & Int.; 1.3130" Head Dia., .3085" Stem Dia., 4.7660" O.A.L.
4	Exhaust	FP-V1326X		Optional-H/D; 1.2500" Head Dia., .3085" Stem Dia., 4.7710" O.A.L.
16	Keeper	FP-VK144		1 groove; Square cut key groove
16	Keeper	VK-144R		1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	FP-VK144B		1 groove; Square cut key groove; Carton of 1000
QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
8	Exh. & Int.	FP-24513755		1.3795" OD, 1.1250" ID, .2636" Depth
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
8	Guide	FP-VG635		Exc. VF Series Engs.; .3155" ID, 2.5000" O.A.L.
8	Guide	FP-VG681		VF Series Engs.; .439" x 1.812"; .3133" ID, 1.8100" O.A.L.
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-VS793		Use w/FP-RC45 rotocap; VF Series Engs.; 1.9700" Free Height
8	Spring	FP-VS468		2.3120" Free Height

**CAMSHAFT GROUP**

QTY	TIMING	PART NO.	SIZE	DESCRIPTION
1	Cam Gear	FP-2214108		VF4 & VH4D Engs.; O.E. No. GB-45A; 48 Teeth

**CYLINDER COMPONENTS**

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Repair Sleeve	FP-SL11M	Std Only	3/32" wall, must be cut to correct length
QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Cast Piston	FP-628CP	Std-20-30-40-60	Use w/FP5051X or FP5051KX ring set; Cast; 2-3/32", 1-3/16" Ring Groove, 1.500" CD, .7503" Pin Dia., Recessed Head .010" deep; Piston length 2.870"; Repl. 3 ring piston in sets only
4	Cast Piston - Individual	FP-W628CP	Std-20-30-40-60	Use w/5051X or 5051KX ring set; Cast; 2-3/32", 1-3/16" Ring Groove, 1.500" CD, .7500" Pin Dia., Recessed Head .010" deep; Piston length 2.870"; Repl. 3 ring piston in sets only
4	Pin Bushing	FP-1394 *		1.000" max. length
4	Pin Bushing	1394		1.000" max. length
QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	FP-3520CP	Std-10-20	VF4, VF4D Engs.
4	Rod Pair	FP-3645CP	Std-10-20	VH4, VH4D, VH4DM Engs.
QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
1	Premium Set	FP-5051KX	Std-20-30-40-60	3-3/32, 1-3/16
1	Standard Set	FP-10366X	Std Only	VF4D Engs.; 3-5/64, 1-3/16
1	Standard Set	FP-5051X	Std-20-30-40-60	3-3/32, 1-3/16

(continued on next page)

**Hay Baler VF4, VF4D, VF41, VH4, VH4D, VH4DM Engs. Combine VF4, VF4D, VF41, VH4, 4  
VH4D, VH4DM Engs. (cont.)**  
1.8L 108 L-HEAD V4, 3.25" Bore (Wisconsin Eng.)

**CYLINDER COMPONENTS (cont.)**

QTY	PISTON RINGS (cont.)	PART NO.	SIZE	DESCRIPTION
4	Premium Single Cylinder Set	W-5051KX20	20-30-60	3-3/32, 1-3/16
4	Standard Single Cylinder Set	W-5051X	Std-30	3-3/32, 1-3/16

**Wheel Tractor F124 Eng. (Gas) 5**  
2.1L 124 L-HEAD L4, 3" Bore (Continental Eng.)

**CYL. HEAD & PARTS**

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Exhaust	FP-V800		Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L.
4	Exhaust	FP-V954		Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950" O.A.L.
4	Exhaust	FP-V1684		W/Single groove stem; Use w/rotocap; 1.2030" Head Dia., .3392" Stem Dia., 5.1890" O.A.L.
8	Keeper	FP-VK142		Use w/drilled stem
16	Keeper	VK-144		1 groove; Square cut key groove
16	Keeper	VK-144R		1 groove; Square cut key groove; Hardened
QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	FP-2451348E1N		1.3480" OD, 1.0870" ID, .2005" Depth
4	Int.	245-1625-1	Std Only	1.6300" OD, 1.3750" ID, .2160" Depth
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
8	Guide	FP-VG336		.3427" ID, 2.5600" O.A.L.
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-VS356		2.0000" Free Height

**CAMSHAFT GROUP**

QTY	TIMING	PART NO.	SIZE	DESCRIPTION
1	Cam Gear	FP-2212600		Replacement O.E. No. 10281; 48 Teeth

**ENGINE BLOCK & PARTS**

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-1158M	Std Only	

**CRANKSHAFT/OIL PUMP**

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crank Gear	FP-2212603A		Repl. O.E. No. 10282; 24 Teeth
1	Crank Gear	221-2603A +		Repl. O.E. No. 10282; 24 Teeth; When depleted use FP-2212603A
QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-4004M	Std-10-20	W/Single flanged front brg.
1	Main Set	FP-4005M	Std-10-20	W/Straight shell front brg.
1	Main Set	FP-6632M	Std-10-20-30	W/Straight shell front brg. & thrust washer
1	Thrust Washer Set	FP-9811BFA	Std Only	Position 1; Use w/straight shell frt. main brg. set
1	Thrust Washer Set	FP-9811BF	Std Only	Position 1; Use w/Flanged main brg.
QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Oil Pump	FP-2244132		Cast Iron drive gear; Use w/Cast Iron cams; 7 1/8" from flange to end of shaft; Incl. screen
1	Oil Pump	FP-2244137		Steel drive gear w/groove at pin; Use w/Steel cams; 7-1/8" from flange to end of shaft; Incl. pin

**CYLINDER COMPONENTS**

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Pin Bushing	8649XAS		Forging No. F400D-502; Full round, thin wall .0055" O/S OD bushing
4	Pin Bushing	8649XA		Forging No. F400D-502; Full round, thin wall bushing w/.9150" OD
4	Pin Bushing	8649V		Forging No. F400D-502; Split type, thin wall bushing w/.9135" OD
4	Pin Bushing	8649V20		Forging No. F400D-502; Split type, thin wall bushing w/.9135" OD & .020" extra bore stock
4	Pin Bushing	FP-9324X		Full round, heavy wall bushing w/1.0625" OD; Forging No. F400D-500
QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
2	Rod Pair	FP-9320CPA	Std-2-10-20-30-40	Position 1-3

(continued on next page)

+ Superseded Part Number

<b>5 Wheel Tractor F124 Eng. (Gas)</b> (cont.) 2.1L 124 L-HEAD L4, 3" Bore (Continental Eng.)				
<b>CYLINDER COMPONENTS (cont.)</b>				
<b>QTY</b>	<b>CONNECTING RODS &amp; BRGS. (cont.)</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
2	Rod Pair	FP-9320CP	Std-10-20-30-40	Position 2-4
<b>QTY</b>	<b>PISTON RINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Premium Set	FP-918KX	Std Only	3-1/8, 1-1/4
1	Standard Set	FP-918X	Std Only	3-1/8, 1-1/4
4	Standard Single Cylinder Set	W-918X	Std Only	3-1/8, 1-1/4
<b>6 Hay Baler VA124, 124 Eng. (Gas). Combine VA124, W106, 124 Eng. (Gas). Wheel Tractor VA124, W106, 124 Eng. (Gas).</b> 2.1L 124 L4, 3.25" Bore				
<b>CYL. HEAD &amp; PARTS</b>				
<b>QTY</b>	<b>VALVE</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Intake	FP-V1053		1.3280" Head Dia., .3411" Stem Dia., 4.9570" O.A.L.
4	Exhaust	FP-V1052		1.2030" Head Dia., .3387" Stem Dia., 4.9830" O.A.L.
16	Keeper	FP-A30004		1 groove; Square cut key groove
<b>QTY</b>	<b>VALVE SEAT</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Exh.	FP-2451348E1N		1.3480" OD, 1.0870" ID, .2005" Depth
4	Int.	245-1437-3	Std Only	1.4425" OD, 1.1880" ID, .2160" Depth
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
8	Guide	FP-VG457		.3430" ID, 2.6870" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
8	Spring	FP-A30025		
<b>QTY</b>	<b>VALVE MISC.</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Rotocap Assy.	FP-RC117A		
<b>QTY</b>	<b>VALVE SEAL</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
8	Valve Stem Seal	ST-2001		Positive type; Installation requires valve guide machining; Rubber/PTFE
8	Valve Stem Seal Bulk	ST-2001BC		Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
<b>ENGINE BLOCK &amp; PARTS</b>				
<b>QTY</b>	<b>CAM BEARINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Cam Set	FP-1227M	Std Only	
<b>CRANKSHAFT/OIL PUMP</b>				
<b>QTY</b>	<b>MAIN BEARINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Main Set	FP-768M	Std-10-20-30	
<b>CYLINDER COMPONENTS</b>				
<b>QTY</b>	<b>LINERS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Liner w/Sealing Rings	FP-SO1776	Std Only	OVERBORE To 3.375"; Incl. (2) FP-SLR1640 sealing rings.
4	Sleeve Assy.	FP-SL1776	Std Only	OVERBORE To 3.375"
<b>QTY</b>	<b>PISTONS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Cast Piston	FP-1776P	Std Only	OVERBORE to 3.375". Use w/FP-5456KX ring set; Cast; 3-1/8", 1-1/4" Ring Groove, 2.187" CD, .8600" Pin Dia., Flat Head - 6.5:1 C.R.
4	Pin Bushing	FP-9324X		
<b>QTY</b>	<b>CONNECTING RODS &amp; BRGS.</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Rod Pair	FP-9320CPA	Std-2-10-20-30-40	
<b>QTY</b>	<b>PISTON RINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Premium Set	FP-5456KX	Std Only	OVERBORE To 3.375"; 3-1/8, 1-1/4
1	Premium Set	FP-962KX	Std Only	3-1/8, 1-1/4
4	Premium Single Cylinder Set	W-5456KX	Std Only	OVERBORE To 3.375"; 3-1/8, 1-1/4
<b>7 Combine G126, 126 Eng. (Gas). Wheel Tractor G126, 126 Eng. (Gas).</b> 2.1L 126 L4, 3.125" Bore				
<b>CYL. HEAD &amp; PARTS</b>				
<b>QTY</b>	<b>VALVE</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Intake	FP-V1053		1.3280" Head Dia., .3411" Stem Dia., 4.9570" O.A.L.
4	Exhaust	FP-V1052		1.2030" Head Dia., .3387" Stem Dia., 4.9830" O.A.L.
16	Keeper	FP-A30004		1 groove; Square cut key groove

(continued on next page)

**Combine G126, 126 Engs. (Gas). Wheel Tractor G126, 126 Engs. (Gas). 7**  
2.1L 126 L4, 3.125" Bore (cont.)

**CYL. HEAD & PARTS (cont.)**

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Int.	245-1437-3	Std Only	1.4425" OD, 1.1880" ID, .2160" Depth
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
4	Guide	FP-VG842		Exh.; .3434" ID, 2.4400" O.A.L.
4	Guide	FP-VG457		Int.; .3430" ID, 2.6870" O.A.L.
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
4	Spring	FP-A30025		Int.
QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
4	Rotocap Assy.	FP-RC117A		

**ENGINE BLOCK & PARTS**

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-1227M	Std Only	

**CRANKSHAFT/OIL PUMP**

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-4154M	Std-10-20-30	

**CYLINDER COMPONENTS**

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Pin Bushing	FP-9324X		
QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	FP-9320CPA	Std-2-10-20-30-40	

**Hay Baler VM4 Eng. 8**  
2.2L 132.7 L-HEAD V4, 3.25" Bore (Wisconsin Eng.)

**CYL. HEAD & PARTS**

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
8	Intake	FP-V818		Exh. & Int.; 1.5630" Head Dia., .3089" Stem Dia., 6.3346" O.A.L.
4	Exhaust	FP-V1676X		Optional; 1.5570" Head Dia., .3085" Stem Dia., 6.3330" O.A.L.
16	Keeper	FP-VK144		Exh. & Int.; 1 groove; Square cut key groove

**CRANKSHAFT/OIL PUMP**

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
2	Cup Taper Brg.	453A		Position 1-2; Tapered roller brg. cup

**CYLINDER COMPONENTS**

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Pin Bushing	FP-1394 *		1.000" max. length
4	Pin Bushing	1394		1.000" max. length

**Combine FK Eng. Wheel Tractor FK Eng. 9**  
2.2L 133 L-HEAD L4 (Early), 3.25" Bore (Waukesha Eng.)

**CYL. HEAD & PARTS**

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Exhaust	FP-V713		1.3490" Head Dia., .3095" Stem Dia., 4.4690" O.A.L.
16	Keeper	FP-VK123		

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
8	Guide	FP-VG296		.3135" ID, 2.5000" O.A.L.

**CYLINDER COMPONENTS**

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Repair Sleeve	FP-SL11M	Std Only	3/32" wall, must be cut to correct length
QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Cast Piston	FP-C1549P40	40	Cast; 3-3/32", 1-3/16" Ring Groove, 1.750" CD, .8750" Pin Dia., Flat Head - 6.5:1 C.R.; Cast iron 4 ring piston; Repl. O.E. Nos. alum. pistons 68304A, 68304B; Use in sets only
4	Pin Bushing	FP-9629X		Bushing w/1/16" dia. oil hole
QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
1	Premium Set	FP-5051KX	Std-20-30-40-60	3-3/32, 1-3/16
1	Standard Set	FP-617X	Std Only	2-1/8, 1-3/16
1	Standard Set	FP-5051X	Std-20-30-40-60	3-3/32, 1-3/16

(continued on next page)

<b>9 Combine FK Eng. Wheel Tractor FK Eng.</b> (cont.) 2.2L 133 L-HEAD L4 (Early), 3.25" Bore (Waukesha Eng.)				
<b>CYLINDER COMPONENTS (cont.)</b>				
<b>QTY</b>	<b>PISTON RINGS (cont.)</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Premium Single Cylinder Set	<b>W-5051KX20</b> 20-30-60		3-3/32, 1-3/16
4	Standard Single Cylinder Set	<b>W-5051X</b> Std-30		3-3/32, 1-3/16
<b>10 Combine FK Eng. Wheel Tractor FK Eng.</b> 2.2L 133 L4, 3.25" Bore (Waukesha Eng.)				
<b>CYL. HEAD &amp; PARTS</b>				
<b>QTY</b>	<b>VALVE</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Exhaust	<b>FP-V713</b>		1.3490" Head Dia., .3095" Stem Dia., 4.4690" O.A.L.
16	Keeper	<b>FP-VK123</b>		
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
8	Guide	<b>FP-VG296</b>		.3135" ID, 2.5000" O.A.L.
<b>CYLINDER COMPONENTS</b>				
<b>QTY</b>	<b>LINERS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Repair Sleeve	<b>FP-SL11M</b>	Std Only	3/32" wall, must be cut to correct length
<b>QTY</b>	<b>PISTONS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Cast Piston	<b>FP-C1549P40</b>	40	Cast; 3-3/32", 1-3/16" Ring Groove, 1.750" CD, .8750" Pin Dia., Flat Head - 6.5:1 C.R.; Cast iron 4 ring piston; Repl. O.E. Nos. alum. pistons 68304A, 68304B; Use in sets only
4	Pin Bushing	<b>FP-9629X</b>		Bushing w/1/16" dia. oil hole
<b>QTY</b>	<b>PISTON RINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Premium Set	<b>FP-5051KX</b> Std-20-30-40-60		3-3/32, 1-3/16
1	Standard Set	<b>FP-617X</b> Std Only		2-1/8, 1-3/16
1	Standard Set	<b>FP-5051X</b> Std-20-30-40-60		3-3/32, 1-3/16
4	Premium Single Cylinder Set	<b>W-5051KX20</b> 20-30-60		3-3/32, 1-3/16
4	Standard Single Cylinder Set	<b>W-5051X</b> Std-30		3-3/32, 1-3/16
<b>11 Wheel Tractor F140 Eng. (Gas)</b> 2.3L 140 L-HEAD L4, 3.1875" Bore (Continental Eng.)				
<b>CYL. HEAD &amp; PARTS</b>				
<b>QTY</b>	<b>VALVE</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Intake	<b>FP-V1748</b>		Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L.
4	Exhaust	<b>FP-V800</b>		Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L.
4	Exhaust	<b>FP-V954</b>		Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950" O.A.L.
4	Exhaust	<b>FP-V1684</b>		Single groove stem; 1.2030" Head Dia., .3392" Stem Dia., 5.1890" O.A.L.
8	Keeper	<b>FP-VK142</b>		For drilled stem
16	Keeper	<b>FP-VK144</b>		1 groove; Square cut key groove
16	Keeper	<b>VK-144R</b>		1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	<b>FP-VK144B</b>		1 groove; Square cut key groove; Carton of 1000
<b>QTY</b>	<b>VALVE SEAT</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Exh.	<b>245-1437-3N</b> Std Only		Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth
4	Exh.	<b>FP-24513753</b>		1.3795" OD, 1.0625" ID, .1855" Depth
4	Exh.	<b>245-1437-3</b> Std Only		1.4425" OD, 1.1880" ID, .2160" Depth
4	Int.	<b>245-1625-1N</b> Std Only		Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth
4	Int.	<b>FP-2451348E1N</b>		1.3480" OD, 1.0870" ID, .2005" Depth
4	Int.	<b>245-1625-1</b> Std Only		1.6300" OD, 1.3750" ID, .2160" Depth
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
8	Guide	<b>FP-VG418</b>		Exc. Rototype; .3425" ID, 2.3100" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
8	Spring	<b>FP-VS356</b>		2.0000" Free Height
<b>CAMSHAFT GROUP</b>				
<b>QTY</b>	<b>TIMING</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Cam Gear	<b>FP-2212601</b>		F140, & F4140 Engs.; Governor Type; 48 Teeth
1	Cam Gear	<b>221-2601 +</b>		F140, & F4140 Engs.; Governor Type; 48 Teeth; When depleted use FP-2212601
1	Cam Gear	<b>FP-2212600</b>		F140, & F4140 Engs.; Replacement O.E. No. F400H310; 48 Teeth

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<i>Wheel Tractor F140 Eng. (Gas) 11</i> 2.3L 140 L-HEAD L4, 3.1875" Bore (Continental Eng.) (cont.)				
<b>ENGINE BLOCK &amp; PARTS</b>				
<b>QTY</b>	<b>GASKET SETS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set	260-1355		Compl.; Timing cover gskt. & seal not incl.
1	Kit Gasket Set	FP-2601355 +		Compl.; Timing cover gskt. & seal not incl.; When depleted use 260-1355
<b>QTY</b>	<b>CAM BEARINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Cam Set	FP-1158M	Std Only	
<b>CRANKSHAFT/OIL PUMP</b>				
<b>QTY</b>	<b>CRANKSHAFT</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Crank Gear	FP-2212603A		F140, & F4140 Eng.; Repl. O.E. No. F400H326; 24 Teeth
1	Crank Gear	221-2603A +		F140, & F4140 Eng.; Repl. O.E. No. F400H326; 24 Teeth; When depleted use FP-2212603A
<b>QTY</b>	<b>MAIN BEARINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Main Set	FP-4004M	Std-10-20	W/Single flanged front brg.
1	Main Set	FP-4005M	Std-10-20	W/Straight shell front brg.
1	Main Set	FP-6632M	Std-10-20-30	W/Straight shell front brg. & thrust washer
1	Thrust Washer Set	FP-9811BFA	Std Only	Position 1; Use w/straight shell main brg. set
1	Thrust Washer Set	FP-9811BF	Std Only	Position 1; Use w/Flanged main brg.
<b>CYLINDER COMPONENTS</b>				
<b>QTY</b>	<b>PISTONS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Pin Bushing	8649XAS		Forging No. F400D-502; Full round, thin wall .0055" O/S OD bushing
4	Pin Bushing	8649XA		Forging No. F400D-502; Full round, thin wall bushing w/.9150" OD
4	Pin Bushing	8649V		Forging No. F400D-502; Split type, thin wall bushing w/.9135" OD
4	Pin Bushing	8649V20		Forging No. F400D-502; Split type, thin wall bushing w/.9135" OD & .020" extra bore stock
4	Pin Bushing	FP-9324X		Full round, heavy wall bushing w/1.0625" OD; Forging No. F400D-500
<b>QTY</b>	<b>CONNECTING RODS &amp; BRGS.</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
2	Rod Pair	FP-9320CPA	Std-2-10-20-30-40	Position 1-3
2	Rod Pair	FP-9320CP	Std-10-20-30-40	Position 2-4
<b>QTY</b>	<b>PISTON RINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Standard Set	FP-948X	Std Only	Check piston grooving before supplying ring set; 3-1/8, 1-1/4
1	Standard Set	FP-5036X	Std Only	Check piston grooving before supplying ring set; 3-1/8, 1-3/16
<b>Combine G148, 148, 148G Eng. (Gas or LPG). Wheel Tractor G148, 148, 148G Eng. (Gas or LPG) 12</b> 2.4L 148 L4 (G148), 3.375" Bore				
<b>CYL. HEAD &amp; PARTS</b>				
<b>QTY</b>	<b>VALVE</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Intake	FP-V1053		1.3280" Head Dia., .3411" Stem Dia., 4.9570" O.A.L.
4	Exhaust	FP-V1052		1.2030" Head Dia., .3387" Stem Dia., 4.9830" O.A.L.
16	Keeper	FP-A30004		1 groove; Square cut key groove
<b>QTY</b>	<b>VALVE SEAT</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Exh.	FP-2451348E1N		1.3480" OD, 1.0870" ID, .2005" Depth
4	Int.	245-1437-3	Std Only	1.4425" OD, 1.1880" ID, .2160" Depth
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
8	Guide	FP-VG457		.3430" ID, 2.6870" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Spring	FP-VS581		Exh.; 2.6400" Free Height
4	Spring	FP-A30025		Int.
<b>QTY</b>	<b>VALVE SEAL</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
8	Valve Stem Seal	ST-2001		Positive type; Installation requires valve guide machining; Rubber/PTFE
8	Valve Stem Seal Bulk	ST-2001BC		Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
<b>ENGINE BLOCK &amp; PARTS</b>				
<b>QTY</b>	<b>GASKET SETS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set	260-1339		Compl., incl. RMB seal & valve stem seals
1	Kit Gasket Set	FP-2601339 +		Compl., Incl. RMB seal & valve stem seals; When depleted use 260-1339

(continued on next page)

+ Superseded Part Number

<b>12 Combine G148, 148, 148G Engs. (Gas or LPG). Wheel Tractor G148, 148, 148G Engs. (Gas or LPG).</b> 2.4L 148 L4 (G148), 3.375" Bore				
<b>ENGINE BLOCK &amp; PARTS (cont.)</b>				
<b>QTY</b>	<b>CAM BEARINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Cam Set	FP-1227M	Std Only	
<b>CRANKSHAFT/OIL PUMP</b>				
<b>QTY</b>	<b>SEALS - FRONT CRANK</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Redi-Sleeve	FP-99210		
1	Oil Seal	FP-A39110		
<b>QTY</b>	<b>SEALS - REAR CRANK</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Oil Seal	FP-A51339		
1	Redi-Sleeve	FP-99400		
<b>QTY</b>	<b>MAIN BEARINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Main Set	FP-4154M	Std-10-20-30	
<b>CYLINDER COMPONENTS</b>				
<b>QTY</b>	<b>LINERS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Liner w/Sealing Rings	FP-SO1776	Std Only	Incl. (2) FP-SLR1640 sealing rings.
4	Sleeve Assy.	FP-SL2684	Std Only	
<b>QTY</b>	<b>PISTONS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Pin Bushing	FP-9324X		
<b>QTY</b>	<b>CONNECTING RODS &amp; BRGS.</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Rod Pair	FP-9320CPA	Std-2-10-20-30-40	
<b>QTY</b>	<b>PISTON RINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Premium Set	FP-5456KX	Std Only	3-1/8, 1-1/4
1	Premium Set	FP-5579KX	Std Only	3-3/32, 1-1/4
1	Standard Set	FP-5579X	Std Only	3-3/32, 1-1/4
4	Premium Single Cylinder Set	W-5456KX	Std Only	3-1/8, 1-1/4
4	Premium Single Cylinder Set	W-5579KX	Std Only	3-3/32, 1-1/4
<b>KITS</b>				
<b>QTY</b>	<b>OVERHAUL KIT</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Tractor Overhaul Kit	FP-KST2684A		Exc. Model 310G
<b>13 Wheel Tractor G148B, 148B Engs. (Gas or LPG)</b> 2.4L 148 L4 (G148B), 3.375" Bore				
<b>CYL. HEAD &amp; PARTS</b>				
<b>QTY</b>	<b>VALVE</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Intake	FP-V1053		1.3280" Head Dia., .3411" Stem Dia., 4.9570" O.A.L.
4	Exhaust	FP-V1052		1.2030" Head Dia., .3387" Stem Dia., 4.9830" O.A.L.
16	Keeper	FP-A30004		1 groove; Square cut key groove
<b>QTY</b>	<b>VALVE SEAT</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Exh.	FP-2451348E1N		1.3480" OD, 1.0870" ID, .2005" Depth
4	Int.	245-1437-3	Std Only	1.4425" OD, 1.1880" ID, .2160" Depth
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
8	Guide	FP-VG457		.3430" ID, 2.6870" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Spring	FP-VS581		Exh.; 2.6400" Free Height
4	Spring	FP-A30025		Int.
<b>QTY</b>	<b>VALVE SEAL</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
8	Valve Stem Seal	ST-2001		Positive type; Installation requires valve guide machining; Rubber/PTFE
8	Valve Stem Seal Bulk	ST-2001BC		Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
<b>ENGINE BLOCK &amp; PARTS</b>				
<b>QTY</b>	<b>GASKET SETS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Kit Gasket Set	260-1339		Compl., incl. RMB seal & valve stem seals
1	Kit Gasket Set	FP-2601339 +		Compl., Incl. RMB seal & valve stem seals; When depleted use 260-1339
<b>QTY</b>	<b>CAM BEARINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Cam Set	FP-1227M	Std Only	

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**Wheel Tractor G148B, 148B Engs. (Gas or LPG) 13**  
2.4L 148 L4 (G148B), 3.375" Bore (cont.)

**CRANKSHAFT/OIL PUMP**

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Redi-Sleeve	FP-99210		
1	Oil Seal	FP-A39110		
QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-A51339		
1	Redi-Sleeve	FP-99400		
QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-4149M	Std-10-20-30	

**CYLINDER COMPONENTS**

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/Sealing Rings	FP-SO1776	Std Only	Incl. (2) FP-SLR1640 sealing rings.
4	Sleeve Assy.	FP-SL2684	Std Only	
QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Pin Bushing	FP-9324X		
QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	FP-A46050	STD	
4	Rod Pair	FP-A46052	10	
4	Rod Pair	FP-A46053	20	
4	Rod Pair	FP-A46054	30	
QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
1	Premium Set	FP-5456KX	Std Only	3-1/8, 1-1/4
1	Premium Set	FP-5579KX	Std Only	3-3/32, 1-1/4
1	Standard Set	FP-5579X	Std Only	3-3/32, 1-1/4
4	Premium Single Cylinder Set	W-5456KX	Std Only	3-1/8, 1-1/4
4	Premium Single Cylinder Set	W-5579KX	Std Only	3-3/32, 1-1/4

**KITS**

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	Tractor Overhaul Kit	FP-KST2684C		Exc. Model 310G

**Combine SE Eng. (Gas). Wheel Tractor SE Eng. (Gas). 14**  
2.5L 154 L4, 3.5" Bore

**CYL. HEAD & PARTS**

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
16	Keeper	FP-VK123		
QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	245-1375-4	Std Only	1.3795" OD, 1.1250" ID, .1855" Depth
4	Int.	245-1500-1	Std Only	1.5045" OD, 1.2500" ID, .2160" Depth
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
8	Guide	FP-VG386		.3128" ID, 2.7500" O.A.L.
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-VS332		2.0310" Free Height

**CYLINDER COMPONENTS**

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
1	Premium Set	FP-5504KX	Std Only	OVERBORE To 3.625"; 3-3/32, 1-3/16
1	Premium Set	FP-934KX	Std-20-30-60	3-1/8, 1-3/16
1	Standard Set	FP-5504X	Std Only	OVERBORE To 3.625"; 3-3/32, 1-3/16
1	Standard Set	FP-934X	Std Only	3-1/8, 1-3/16
4	Premium Single Cylinder Set	W-5504KX	Std Only	OVERBORE To 3.625"; 3-3/32, 1-3/16
4	Premium Single Cylinder Set	W-934KX	Std Only	3-1/8, 1-3/16
4	Standard Single Cylinder Set	W-934X	Std Only	3-1/8, 1-3/16

**Harvester V460D, V461D, VG4D, VP4, VP4D Engs. 15**  
2.5L 154 L-HEAD V4, 3.5" Bore (Wisconsin Eng.)

**CYL. HEAD & PARTS**

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-V818		VG4D & VP4D Engs.; 1.5630" Head Dia., .3089" Stem Dia., 6.3346" O.A.L.
4	Exhaust	FP-V1676X		VG4D & VP4D Engs.; 1.5570" Head Dia., .3085" Stem Dia., 6.3330" O.A.L.
16	Keeper	FP-VK144		Exc. V460D, V461D Engs.; 1 groove; Square cut key groove

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**15 Harvester V460D, V461D, VG4D, VP4, VP4D Engs.**  
(cont.) 2.5L 154 L-HEAD V4, 3.5" Bore (Wisconsin Eng.)

**CYL. HEAD & PARTS (cont.)**

QTY	VALVE (cont.)	PART NO.	SIZE	DESCRIPTION
16	Keeper	VK-144R		Exc. V460D, V461D Engs.; 1 groove; Square cut key groove; Hardened
16	Keeper	FP-23507238		V460D, V461D Engs.; 1 groove; Square cut key groove
16	Keeper	VK-115		V460D, V461D Engs.; 1 groove; Square cut key groove; Carton pack 32
16	Keeper, Bulk	FP-VK144B		Exc. V460D, V461D Engs.; 1 groove; Square cut key groove; Carton of 1000
16	Keeper, Bulk	VK-115B		V460D, V461D Engs.; 1 groove; Square cut key groove; Carton of 1000

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
8	Guide	VG-855		VG4D & VP4D Engs.; .3130" ID, 2.5000" O.A.L.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-VS468		AP4 Engs.; 2.3120" Free Height

**CRANKSHAFT/OIL PUMP**

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Plain Main Brg.	FP-3224CP	Std-10	Position Center; V-460D, V-461D, V-465D Engs.
2	Cone Taper Brg.	39590		Position Ends; V-460D, V-461D & V-465D Engs. Tapered roller brg. cone
2	Cup Taper Brg.	39520		Position Ends; V-460D, V-461D & V-465D Engs. Tapered roller brg. cup
2	Cup Taper Brg.	453A		Position 1-2; AM-4, AM-41, AP-4, AP-41, VG4D, VM4 & VP4 Engs. Tapered roller brg. cup

**CYLINDER COMPONENTS**

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Repair Sleeve	SL-15M	Std Only	3/32" wall, Must be cut to correct length

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Pin Bushing	FP-1394 *		VG4D & VP4 Engs.; 1.000" max. length
4	Pin Bushing	1394		VG4D & VP4 Engs.; 1.000" max. length

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	FP-3220CP	Std-10-20-30	V-460D, V-461D, V-465D Engs.; w/2.1232-2.1240" std. shaft size
4	Rod Pair	FP-3605SB	Std-10-20	VG4D, VM4, VP4 Engs.

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
1	Premium Set	FP-934KX	Std-20-30-60	VG4D, VP4, VP4D Engs.; 3-1/8, 1-3/16
4	Premium Set	FP-5091KX	Std-30	VG4D, VP4, VP4D Engs.; 3-1/8, 1-3/16 (1 cyl. set)
1	Standard Set	FP-934X	Std Only	VG4D, VP4, VP4D Engs.; 3-1/8, 1-3/16
4	Premium Single Cylinder Set	W-934KX	Std Only	VG4D, VP4, VP4D Engs.; 3-1/8, 1-3/16
4	Standard Single Cylinder Set	W-934X	Std Only	VG4D, VP4, VP4D Engs.; 3-1/8, 1-3/16

**16 Wheel Tractor GD157 Eng. (Diesel)**  
2.6L 157 OHV Diesel L4, 3.4375" Bore (Continental Eng.)

**CYLINDER COMPONENTS**

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
1	Premium Set	FP-5456KX	Std Only	3-1/8, 1-1/4
4	Premium Single Cylinder Set	W-5456KX	Std Only	3-1/8, 1-1/4

**17 Wheel Tractor G159, G159B, 159, 159B Engs. (Gas or LPG)**  
2.6L 159 L4, 3.5" Bore

**CYL. HEAD & PARTS**

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-V4075		1.4173" Head Dia., .3409" Stem Dia., 5.2913" O.A.L.
4	Exhaust	FP-V4097		1.2697" Head Dia., .3386" Stem Dia., 5.3272" O.A.L.
16	Keeper	FP-A30004		1 groove; Square cut key groove

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
4	Guide	FP-VG457		Exh.; .3430" ID, 2.6870" O.A.L.
4	Guide	FP-VG842		Int.; .3434" ID, 2.4400" O.A.L.

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
4	Rotocap Assy.	FP-RC117A		

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	ST-2001		Exh. & Int.; Positive type; Installation requires valve guide machining; Rubber/PTFE
4	Valve Stem Seal	FP-G46851		Int.; Rubber

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*Wheel Tractor G159, G159B, 159, 159B Engs. (Gas or LPG) 17*  
2.6L 159 L4, 3.5" Bore (cont.)

**CYL. HEAD & PARTS (cont.)**

QTY	VALVE SEAL (cont.)	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal Bulk	ST-2001BC		Exh. & Int.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE

**ENGINE BLOCK & PARTS**

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-1227M	Std Only	

**CRANKSHAFT/OIL PUMP**

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Redi-Sleeve	FP-99210		
1	Oil Seal	FP-A39110		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-A51339		
1	Redi-Sleeve	FP-99400		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-4149M	Std-10-20-30	

**CYLINDER COMPONENTS**

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	FP-A46050	STD	
4	Rod Pair	FP-A46052	10	
4	Rod Pair	FP-A46053	20	
4	Rod Pair	FP-A46054	30	

*Wheel Tractor F162 Eng. (Gas) 18*  
2.6L 162 L-HEAD L4, 3.4375" Bore (Continental Eng.)

**ENGINE BLOCK & PARTS**

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-1158M	Std Only	

**CRANKSHAFT/OIL PUMP**

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-4004M	Std-10-20	W/Single flanged front brg.
1	Main Set	FP-4005M	Std-10-20	W/Straight shell front brg.
1	Main Set	FP-6632M	Std-10-20-30	W/Straight shell front brg. & thrust washer
1	Thrust Washer Set	FP-9811BFA	Std Only	Position 1; Use w/straight shell main brg. set
1	Thrust Washer Set	FP-9811BF	Std Only	Position 1; Use w/Flanged main brg.

**CYLINDER COMPONENTS**

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Pin Bushing	8649XAS		Forging No. F400D-502; Full round, thin wall .0055" O/S OD bushing
4	Pin Bushing	8649XA		Forging No. F400D-502; Full round, thin wall bushing w/.9150" OD
4	Pin Bushing	8649V		Forging No. F400D-502; Split type, thin wall bushing w/.9135" OD
4	Pin Bushing	8649V20		Forging No. F400D-502; Split type, thin wall bushing w/.9135" OD & .020" extra bore stock
4	Pin Bushing	FP-9324X		Full round, heavy wall bushing w/1.0625" OD; Forging No. F400D-500

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
2	Rod Pair	FP-9320CPA	Std-2-10-20-30-40	Position 1-3
2	Rod Pair	FP-9320CP	Std-10-20-30-40	Position 2-4

*Wheel Tractor G164, 164 Engs. (Gas or LPG) 19*  
2.7L 164 L4, 3.5625" Bore

**CYL. HEAD & PARTS**

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Exhaust	FP-V1052		Gas Engs.; 1.2030" Head Dia., .3387" Stem Dia., 4.9830" O.A.L.
16	Keeper	FP-A30004		1 groove; Square cut key groove

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
4	Guide	FP-VG457		Exh.; L.P.G. Engs.; .3430" ID, 2.6870" O.A.L.
4	Guide	FP-VG842		Int.; Gas Engs.; .3434" ID, 2.4400" O.A.L.

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<b>19 Wheel Tractor G164, 164 Engs. (Gas or LPG)</b> (cont.) 2.7L 164 L4, 3.5625" Bore				
<b>CYL. HEAD &amp; PARTS (cont.)</b>				
<b>QTY</b>	<b>VALVE SPRING</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Spring	FP-A30025		Int.
<b>QTY</b>	<b>VALVE SEAL</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
8	Valve Stem Seal	ST-2001		Positive type; Installation requires valve guide machining; Rubber/PTFE
4	Valve Stem Seal	FP-G46851		Int.; Rubber
8	Valve Stem Seal Bulk	ST-2001BC		Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
<b>ENGINE BLOCK &amp; PARTS</b>				
<b>QTY</b>	<b>CAM BEARINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Cam Set	FP-1227M	Std Only	
<b>CRANKSHAFT/OIL PUMP</b>				
<b>QTY</b>	<b>MAIN BEARINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Main Set	FP-4149M	Std-10-20-30	
<b>CYLINDER COMPONENTS</b>				
<b>QTY</b>	<b>CONNECTING RODS &amp; BRGS.</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Rod Pair	FP-A46050	STD	
4	Rod Pair	FP-A46052	10	
4	Rod Pair	FP-A46053	20	
4	Rod Pair	FP-A46054	30	
<b>QTY</b>	<b>PISTON RINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Premium Set	FP-5448KX	Std Only	3-3/32, 1-1/4
<b>20 Combine XAH Eng.</b> 3.0L 186 L4, 3.625" Bore (Waukesha Eng.)				
<b>CYLINDER COMPONENTS</b>				
<b>QTY</b>	<b>PISTONS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Pin Bushing	FP-8944X		
<b>21 Combine G188, G188B, 188, 188B Engs. (Gas). Wheel Tractor G188, G188B, 188, 188B Engs. (Gas).</b> 3.1L 188 L4 (G188B), 3.8125" Bore				
<b>CYL. HEAD &amp; PARTS</b>				
<b>QTY</b>	<b>VALVE</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
16	Keeper	FP-A30004		1 groove; Square cut key groove
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Guide	FP-G2069		Int.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Spring	FP-A30025		Int.
<b>QTY</b>	<b>VALVE MISC.</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Rotocap Assy.	FP-RC117A		Exh.
<b>QTY</b>	<b>VALVE SEAL</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
8	Valve Stem Seal	ST-2001		Positive type; Installation requires valve guide machining; Rubber/PTFE
4	Valve Stem Seal	FP-G46851		Int.; Rubber
8	Valve Stem Seal Bulk	ST-2001BC		Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
<b>CRANKSHAFT/OIL PUMP</b>				
<b>QTY</b>	<b>SEALS - FRONT CRANK</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Redi-Sleeve	FP-99210		
1	Oil Seal	FP-A39110		
<b>QTY</b>	<b>SEALS - REAR CRANK</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Oil Seal	FP-A51339		
1	Redi-Sleeve	FP-99400		
<b>CYLINDER COMPONENTS</b>				
<b>QTY</b>	<b>CONNECTING RODS &amp; BRGS.</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Rod Pair	FP-A46050	STD	
4	Rod Pair	FP-A46052	10	

(continued on next page)

**Combine G188, G188B, 188, 188B Engs. (Gas). Wheel Tractor G188, G188B, 188, 188B 21**  
**Engs. (Gas). (cont.)**  
 3.1L 188 L4 (G188B), 3.8125" Bore

**CYLINDER COMPONENTS (cont.)**

<b>CONNECTING RODS &amp; BRGS. (cont.)</b>				
<b>QTY</b>		<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Rod Pair	FP-A46053	20	
4	Rod Pair	FP-A46054	30	

**Combine G188D, 188, 188D Engs. (Diesel). Loader. Wheel Tractor G188D, 188, 188D Engs. 22**  
**(Diesel). Windrower G188D, 188, 188D Engs. (Diesel). Crawler Tractor G188D, 188, 188D**  
**Engs. (Diesel). Wheel Loader G188D, 188, 188D Engs. (Diesel).**  
 3.1L 188 Diesel L4, 3.8125" Bore

**CYL. HEAD & PARTS**

<b>QTY</b>		<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Intake	FP-A38422		
4	Exhaust	FP-A38423		
16	Keeper	FP-A30004		1 groove; Square cut key groove
4	Guide	FP-G2069		Exh.
4	Guide	FP-G2068		Int.
8	Spring	FP-A30025		
4	Rotocap Assy.	FP-RC117A		Exh.
8	Valve Stem Seal	ST-2001		Positive type; Installation requires valve guide machining; Rubber/PTFE
4	Valve Stem Seal	FP-G46851		Int.; Rubber
8	Valve Stem Seal Bulk	ST-2001BC		Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE

**ENGINE BLOCK & PARTS**

<b>QTY</b>		<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Complete Overhaul Gasket Set	FP-PGE207C		Use w/large dia. (4.537") flange sleeve
1	Complete Overhaul Gasket Set	FP-PGE188EC		Use w/small dia. (4.458") flange sleeve
1	Cam Set	FP-A151075	STD	W/Tach drive
1	Cam Set	FP-A41232	STD	W/1.218" length on No. 5 brg.; Engs. w/o tach drive

**CRANKSHAFT/OIL PUMP**

<b>QTY</b>		<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Redi-Sleeve	FP-99210		
1	Oil Seal	FP-A39110		
1	Oil Seal	FP-A51339		
1	Redi-Sleeve	FP-99400		

<b>QTY</b>		<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Main Set	FP-4397M	Std-10-20-30	
1	Main Set	FP-4397M10	Std-10-20-30	
1	Main Set	FP-4397M20	Std-10-20-30	
1	Main Set	FP-4397M30	Std-10-20-30	

**CYLINDER COMPONENTS**

<b>QTY</b>		<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Liner w/o Sealing Rings	FP-A39006		From Ser. No. 2656844; Flange Dia. 4.537"
4	Liner w/o Sealing Rings	FP-A43009		To Ser. No. 2656843; Flange Dia. 4.458"
4	Liner w/Sealing Rings	FP-A39006WS	STD	From Ser. No. 2656844; Flange Dia. 4.537"
4	Liner w/Sealing Rings	FP-A43009WS	STD	To Ser. No. 2656843; Flange Dia. 4.458"
4	Cylinder Kit Complete	FP-A151995	STD	From Ser. No. 2656844
4	Cylinder Kit Complete	FP-A37769	STD	To Ser. No. 2656843
8	Sealing Ring, Liner	FP-2385154		Use 2 per liner
4	Piston Body w/o Pin	FP-A38424		3-ring piston; Replaces 4-ring piston in sets; Cast; 1-1/8, 1-3/32, 1-3/16 Ring Groove; Recessed Head .540" deep & 2.492" dia. w/2 valve reliefs; 17.5:1 C.R.

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**22** Combine G188D, 188, 188D Engs. (Diesel). Loader. Wheel Tractor G188D, 188, 188D Engs. (cont.) (Diesel). Windrower G188D, 188, 188D Engs. (Diesel). Crawler Tractor G188D, 188, 188D Engs. (Diesel). Wheel Loader G188D, 188, 188D Engs. (Diesel).  
3.1L 188 Diesel L4, 3.8125" Bore

**CYLINDER COMPONENTS (cont.)**

QTY	PISTONS (cont.)	PART NO.	SIZE	DESCRIPTION
4	Piston Kit w/Pin & Retainers	FP-A38424WP	STD	3-ring piston; Replaces 4-ring piston in sets; Cast; 1-1/8, 1-3/32, 1-3/16 Ring Groove; Recessed Head .540" deep & 2.492" dia. w/2 valve reliefs; 17.5:1 C.R. 1.250" Dia.
4	Pin	FP-A35770		
8	Piston Pin Retainer	FP-G46702		
1	Piston Pin Set	FP-A35771		Incl. 4 Piston Pins and 8 Piston Pin Retainers
1	Pin Bushing Set	FP-G11953		Bushing w/1.240"length; Incl. 4 of FP-G49659
1	Pin Bushing Set	FP-A136712		Bushing w/1.292"length; Incl. 4 of FP-A44038
4	Pin Bushing	FP-A44038		Bushing w/1.292" length
4	Pin Bushing	FP-G49659		To 1974; bushing w/1.240" length

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	FP-A46050	STD	
4	Rod Pair	FP-A46052	10	
4	Rod Pair	FP-A46053	20	
4	Rod Pair	FP-A46054	30	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-A151857		3-Ring
1	Premium Set	FP-G37075	STD	Late style; 3-ring; Contains 4 of FP-A151857; 1-1/8, 1-3/32, 1-3/16

**KITS**

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Kit	FP-IFK188L		From Ser. No. 2656844; Flange Dia. 4.537"
1	Complete Overhaul Kit	FP-IFK188E		To Ser. No. 2656843; Flange Dia. 4.458"

**23** Forklift G207D, 207, 207D Engs. (Diesel). Loader G207D, 207, 207D Engs. (Diesel). Wheel Tractor G207D, 207, 207D Engs. (Diesel). Crawler Tractor G207D, 207, 207D Engs. (Diesel).  
3.4L 207 Diesel L4, 4" Bore

**CYL. HEAD & PARTS**

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-A38422		
4	Exhaust	FP-A38423		
16	Keeper	FP-A30004		1 groove; Square cut key groove

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-A30025		

**ENGINE BLOCK & PARTS**

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	FP-PGE207C		Oil pan gskt. for 580D-CK not incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-A151075	STD	W/Tach drive

**CRANKSHAFT/OIL PUMP**

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Redi-Sleeve	FP-99210		
1	Oil Seal	FP-A39110		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-A51339		
1	Redi-Sleeve	FP-99400		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-4397M	Std-10-20-30	
1	Main Set	FP-4397M10	Std-10-20-30	
1	Main Set	FP-4397M20	Std-10-20-30	
1	Main Set	FP-4397M30	Std-10-20-30	

**CYLINDER COMPONENTS**

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Rings	FP-A136474		
4	Liner w/Sealing Rings	FP-A136474WS		Incl. 2 FP-A51916 Sealing Rings
4	Cylinder Kit Complete	FP-A46382	STD	From Eng. Ser. No. 2869291
4	Cylinder Kit Complete	FP-A151991	STD	To Eng. Ser. No. 2869290
8	Sealing Ring, Liner	FP-A51916		Use 2 per liner

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Forklift G207D, 207, 207D Engs. (Diesel). Loader G207D, 207, 207D Engs. (Diesel). Wheel **23**  
 Tractor G207D, 207, 207D Engs. (Diesel). Crawler Tractor G207D, 207, 207D Engs. (Diesel). (cont.)  
 3.4L 207 Diesel L4, 4" Bore

**CYLINDER COMPONENTS (cont.)**

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	FP-A151244		3-ring; From Ser. No. 2869291; 17.1:1 C.R.
4	Piston Body w/o Pin	FP-A51911		3-ring; To Ser. No. 2869290; 17.1:1 C.R.
4	Piston Kit w/Pin & Retainers	FP-A151244WP		3-ring; From Ser. No. 2869291; 17.1:1 C.R.
4	Piston Kit w/Pin & Retainers	FP-A51911WP		3-ring; To Ser. No. 2869290; 17.1:1 C.R.
4	Pin	FP-A35770		1.250" Dia.
8	Piston Pin Retainer	FP-G46702		
1	Piston Pin Set	FP-A35771		Incl. 4 Piston Pins and 8 Piston Pin Retainers
1	Pin Bushing Set	FP-A136712		Bushing w/1.292" length; Incl. 4 of FP-A44038
4	Pin Bushing	FP-A44038		Bushing w/1.292" length

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	FP-A50975	STD	
4	Rod Pair	FP-A50977	10	
4	Rod Pair	FP-A50978	20	
4	Rod Pair	FP-A50979	30	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-A151892	STD	Do not use w/Chrome liners; 1-1/8, 1-3/32, 1-3/16
1	Premium Set	FP-A151892S	STD	Do not use w/Chrome liners; 1-1/8, 1-3/32, 1-3/16
1	Standard Set	FP-10456X	Std Only	1-1/8, 1-3/32, 1-3/16
4	Premium Single Cylinder Set	W-9330KX + Std Only		Do not use w/Chrome liners; 1-1/8, 1-3/32, 1-3/16; When depleted use FP-A151892

**KITS**

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Kit	FP-IFK207L		From Eng. Ser. No. 2869291; Oil pan gskt. for Wheel Tractor Model 580D-CK not incl.
1	Complete Overhaul Kit	FP-IFK207E		To Eng. Ser. No. 2869290; Oil pan gskt. for Wheel Tractor Model 580D-CK not incl.

Wheel Tractor F209 Eng. (Gas) **24**  
 3.4L 209 L-HEAD L6, 3.1875" Bore (Continental Eng.)

**CYL. HEAD & PARTS**

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-V1748		Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L.
6	Exhaust	FP-V800		Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L.
6	Exhaust	FP-V954		Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950" O.A.L.
6	Exhaust	FP-V1684		Single groove stem; 1.2030" Head Dia., .3392" Stem Dia., 5.1890" O.A.L.
6	Exhaust	FP-V959		Use w/Rotocaps; 1.3230" Head Dia., .3382" Stem Dia., 5.1100" O.A.L.
6	Keeper	FP-VK27		For drilled stem
12	Keeper	FP-A30004		1 groove; Square cut key groove

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	245-1437-3N Std Only		Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth
6	Exh.	FP-24513753		1.3795" OD, 1.0625" ID, .1855" Depth
6	Exh.	245-1437-3 Std Only		1.4425" OD, 1.1880" ID, .2160" Depth
6	Int.	245-1625-1N Std Only		Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth
6	Int.	FP-2451348E1N		1.3480" OD, 1.0870" ID, .2005" Depth
6	Int.	245-1625-1 Std Only		1.6300" OD, 1.3750" ID, .2160" Depth

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
6	Guide	FP-VG336		.3427" ID, 2.5600" O.A.L.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
6	Spring	FP-VS310		1.9690" Free Height

**CAMSHAFT GROUP**

QTY	TIMING	PART NO.	SIZE	DESCRIPTION
1	Timing Chain	222-489		Late model; 46 Links
1	Cam Gear	FP-223233		Early model; 36 Teeth
1	Cam Gear	FP-2212601		Governor type; 48 Teeth
1	Cam Gear	221-2601 +		Governor type; 48 Teeth; When depleted use FP-2212601
1	Cam Gear	FP-2212600		Replacement O.E. No. F400H310; 48 Teeth

(continued on next page)

<b>24 Wheel Tractor F209 Eng. (Gas)</b> (cont.) 3.4L 209 L-HEAD L6, 3.1875" Bore (Continental Eng.)				
<b>ENGINE BLOCK &amp; PARTS</b>				
<b>QTY</b>	<b>CAM BEARINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Cam Set	FP-1088M		
<b>CRANKSHAFT/OIL PUMP</b>				
<b>QTY</b>	<b>CRANKSHAFT</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Crank Gear	FP-223234A		Early model; 18 Teeth
1	Crank Gear	FP-2212603A		24 Teeth
1	Crank Gear	221-2603A +		24 Teeth; When depleted use FP-2212603A
<b>QTY</b>	<b>MAIN BEARINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Main Set	FP-4247M		F209, F6209 Dynatork, & 24B 4th Ser.
1	Thrust Washer Set	FP-9811BFA	Std Only	Position 1; Use w/straight shell main brg. set
1	Thrust Washer Set	FP-9811BF	Std Only	Position 1; Use w/Flanged main brg.
<b>QTY</b>	<b>OIL PUMP</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Oil Pump	FP-2244132		F209 and F6209 Eng.s.; Cast Iron drive gear; Use w/Cast Iron cams; 7 1/8" from flange to end of shaft; Incl. screen
1	Oil Pump	FP-2244137		F209 and F6209 Eng.s.; Steel drive gear w/groove at pin; Use w/Steel cams; 7-1/8" from flange to end of shaft; Incl. pin
<b>CYLINDER COMPONENTS</b>				
<b>QTY</b>	<b>PISTONS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
6	Pin Bushing	8649XAS		Forging No. F400D-502; Full round, thin wall .0055" O/S OD bushing
6	Pin Bushing	8649XA		Forging No. F400D-502; Full round, thin wall bushing w/.9150" OD
6	Pin Bushing	8649V		Forging No. F400D-502; Split type, thin wall bushing w/.9135" OD
6	Pin Bushing	8649V20		Forging No. F400D-502; Split type, thin wall bushing w/.9135" OD & .020" extra bore stock
6	Pin Bushing	FP-9324X		Full round, heavy wall bushing w/1.0625" OD; Frg. Nos. D600D-500, F400D-500 & F600D-500. Except F209 4th series, F6209 Dynatork & 24B 4th series Eng.s.
<b>QTY</b>	<b>CONNECTING RODS &amp; BRGS.</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
3	Rod Pair	FP-1995CPA	STD	Position 1-3-5; F209 4th series, F6209 Dynatork & 24B 4th series Eng.s.
3	Rod Pair	FP-9320CPA	Std-2-10-20-30-40	Position 1-3-5; F209, PF209, F6209 & 24B 1st, 2nd, 3rd series Eng.s.
3	Rod Pair	FP-1995CP	STD	Position 2-4-6; F209 4th series, F6209 Dynatork & 24B 4th series Eng.s.
3	Rod Pair	FP-9320CP	Std-10-20-30-40	Position 2-4-6; F209, PF209, F6209 & 24B 1st, 2nd, 3rd series Eng.s.
<b>25 Combine H-225 Eng. (Gas)</b> 3.7L 225 OHV L6, 3.4063" Bore (Chrysler Eng.)				
<b>CYL. HEAD &amp; PARTS</b>				
<b>QTY</b>	<b>VALVE</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
6	Intake	V-1434	Std Only	2 groove; 1.6200" Head Dia., .3725" Stem Dia., 4.7740" O.A.L.
24	Keeper	VK-66		2 groove
24	Keeper	VK-66R		2 groove; Hardened
24	Keeper	VK-174		4 groove
24	Keeper	VK-174R		4 groove; Hardened
<b>QTY</b>	<b>VALVE SPRING</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
12	Spring	VS-510		Exh. & Int.; 2.0000" Free Height
12	Spring Insert	259-103C		.015"; ID 1.030"; Carton of 100
<b>QTY</b>	<b>PUSH RODS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
12	Push Rod	RP-3036		9.9540" O.A.L.
<b>QTY</b>	<b>VALVE SEAL</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
6	Valve Stem Seal	MV-1918		Exh.; Umbrella type; Viton®
6	Valve Stem Seal	MV-1771C		Int.; Eng.s. No. H2254071330; Umbrella type; Polyacrylate
6	Valve Stem Seal Bulk	MV-1771		Int.; Eng.s. No. H2254071330; Umbrella type; Carton of 100; Polyacrylate
<b>CAMSHAFT GROUP</b>				
<b>QTY</b>	<b>TIMING</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Timing Chain	222-495		Silent type; 50 Links
1	Crank Sprocket	223-291		Use w/silent type chain; 19 Teeth
<b>QTY</b>	<b>CAMSHAFT/LIFTER</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Camshaft	CS-380		

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*Combine H-225 Eng. (Gas) 25*  
3.7L 225 OHV L6, 3.4063" Bore (Chrysler Eng.) (cont.)

**CAMSHAFT GROUP (cont.)**

QTY	CAMSHAFT/LIFTER (cont.)	PART NO.	SIZE	DESCRIPTION
12	Lifter	AT-2084	Std Only	Dumbbell shaped mech.
12	Lifter, Bulk	AT-2084B	Std Only	Dumbbell shaped mech.; Carton of 117
1	Pre-lube	55-400		4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.

**ENGINE BLOCK & PARTS**

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Kit Gasket Set	260-1004		Premium valve stem seals incl.
QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	1454M	Std Only	
1	Cam Set	1473M	Std Only	

**CRANKSHAFT/OIL PUMP**

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	5070M	Std-10-20-30-40	
1	Main Set	4092M	Std-10-20-30	1960-76; w/Forged crankshaft; w/ 1.255" O.A.L. No. 3 brg.
QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Oil Pump	224-4165C		w/.826" rotor thickness; 5 bolt pump; Will replace early 6 bolt pump

**CYLINDER COMPONENTS**

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Cast Piston	244NP	Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.740" CD, .9011" Pin Dia., Flat Head - 8.2:1 C.R.
6	Cast Piston - Individual	W244NP	Std-20-30-40-60	Cast; 2-5/64", 1-3/16" Ring Groove, 1.740" CD, .9011" Pin Dia., Flat Head - 8.2:1 C.R.
6	Pin Bushing	2134Y		
QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
1	Rod Set	6-3695RA	Std-10-20-30-40	A-Series aluminum bearings
1	Rod Set	6-2375CP	Std-10-20-30-40	6-2375CA 60 avail. as unplated & resizeable
6	Rod Pair	2375CP	Std-10-20-30-40	
6	Rod Pair	3695RA	Std-1-10-20-30-40	A-Series aluminum bearings
QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
1	Premium Set	E-196K	Std-20-30-40-60	2-5/64, 1-3/16
1	Standard Set	E-196X	Std-20-30-40-60	2-5/64, 1-3/16
6	Premium Single Cylinder Set	WE-196K	Std-20-30-40-60	2-5/64, 1-3/16
6	Standard Single Cylinder Set	WE-196X	Std-20-30-40-60	2-5/64, 1-3/16

*Loader. Power Unit. Wheel Tractor "B" Series, 4B3.9 (4-390) (Naturally Aspirated). 26*  
*Windrower. Trencher. Crawler Tractor. Wheel Skidder. Backhoe.*  
3.9L 239 (3921cc) OHV Diesel L4, 102mm Bore (Cummins Eng.)

**CYL. HEAD & PARTS**

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
4	Valve Cover Gasket	FP-3930906		
1	Head Gasket	FP-3283569		
1	Head Set	FP-3804896		
QTY	HEAD BOLTS	PART NO.	SIZE	DESCRIPTION
10	Head Bolt	FP-3920780		M12 x 1.75 x 122MM Length
4	Head Bolt	FP-3920779		M12 x 1.75 x 71.5MM Length
QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-3920867		Bare Valve; Chrome plated stem; 1.7720" Head Dia., .3138" Stem Dia., 5.0840" O.A.L.
4	Exhaust	FP-3920868		Bare Valve; Chrome plated stem; 1.6540" Head Dia., .3138" Stem Dia., 5.0810" O.A.L.
4	Exhaust Valve Kit	FP-3802356		Incl. valve & locks
4	Intake Valve Kit	FP-3802355		Incl. valve & locks
8	Keeper	FP-3900250		

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**26** Loader. Power Unit. Wheel Tractor "B" Series, 4B3.9 (4-390) (Naturally Aspirated).  
 (cont.) Windrower. Trencher. Crawler Tractor. Wheel Skidder. Backhoe.  
 3.9L 239 (3921cc) OHV Diesel L4, 102mm Bore (Cummins Eng.)

<b>CYL. HEAD &amp; PARTS (cont.)</b>				
QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	FP-3904105		
4	Int.	FP-3906854		
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
4	Guide	FP-3904409		Exh.; Thick wall; .3160" ID, 2.0520" O.A.L.
4	Guide	FP-3904408		Int.; Thick wall; .3160" ID, 2.3970" O.A.L.
4	Guide	FP-3906206		Int. & Exh.; Thin wall; .3162" ID, 2.5000" O.A.L.
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-4936080		1.8800" Free Height
8	Spring	FP-3900276		30 PSI; 2.2350" Free Height
8	Spring	FP-3926700		36 PSI; 2.3850" Free Height
8	Spring	FP-3932453		36 PSI; 2.5500" Free Height
8	Retainer	FP-3900299		
QTY	PUSH RODS	PART NO.	SIZE	DESCRIPTION
8	Push Rod	FP-3284377		10.9100" O.A.L.
QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-3910824		Valve Cover Screw; .364" I.D. x .070" Thick
QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	FP-3957912		Int. & Exh.; For Eng. built after April 2003; Top Hat style; Viton®
8	Valve Stem Seal	FP-3921640		Int. & Exh.; For Eng. built before April 2003
8	Valve Stem Seal	FP-3901097 +		Int. & Exh.; When depleted use FP-3921640
QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
4	Rocker Lever Exhaust	FP-3910810		Exh.
4	Rocker Lever Intake	FP-3910811		Int.
<b>CAMSHAFT GROUP</b>				
QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft	FP-3929039		
8	Lifter	FP-3931623		
<b>FUEL SYSTEM &amp; PARTS</b>				
QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
4	Fuel Injector Seal Ring	FP-3909356		
4	Fuel Injector Sleeve	FP-3919358		For 9mm head
4	Fuel Injector Seal	FP-3930324		
4	Copper Washer	FP-3906659		For 7mm head; 1.50MM Thick
4	Fuel Line Connector	FP-3903380		Banjo connector; 6mm; Banjo connector
QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Fuel Transfer Pump	FP-4983584 *		Diaphragm style
1	Fuel Transfer Pump	FP-3970880 +		Diaphragm style; When depleted use FP-4983584
1	Fuel Transfer Pump	FP-4944713		144.7 - 201.2 LPH; 1/4 x 18 NPTF Fuel Inlet
<b>COOLING SYSTEM</b>				
QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump - Heavy Duty	FP-3286277		
QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	FP-3917324		180 Deg. F
1	Thermostat Kit	FP-3802273		180 Deg. F; Includes Thermostat, Template and O-ring
<b>ENGINE BLOCK &amp; PARTS</b>				
QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-3911535		
QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	FP-3802375		
QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-3940059	STD	From 1997 and up (Storm Blocks)
1	Cam Brg.	FP-3901306	STD	To 1996
QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler	FP-3957543		
<b>CRANKSHAFT/OIL PUMP</b>				
QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	FP-3929036		STD; With Gear
1	Crank Gear	FP-3929027		

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*Loader. Power Unit. Wheel Tractor "B" Series, 4B3.9 (4-390) (Naturally Aspirated). 26  
Windrower. Trencher. Crawler Tractor. Wheel Skidder. Backhoe. (cont.)  
3.9L 239 (3921cc) OHV Diesel L4, 102mm Bore (Cummins Eng.)*

**CRANKSHAFT/OIL PUMP (cont.)**

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-3937111		
1	Gear Housing Gasket	FP-3938156		Front
1	Redi-Sleeve	FP-3906080		Front
QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Redi-Sleeve	FP-3906081		Rear
1	Rear Cover Gasket	FP-3928493		
1	Rect. or Square Seal	FP-3912473		Flywheel Housing; Rectangular
QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-3802010	STD	
1	Main Set	FP-3802011	.25MM	
1	Main Set	FP-3802012	.50MM	
1	Main Set	FP-3802013	.75MM	
1	Main Set	FP-3802014	1.00MM	
QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Oil Pump	FP-4939585		4BT3.9

**CYLINDER COMPONENTS**

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Rings	FP-3904166		To return block to Standard
QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	FP-3906223	STD	
4	Piston Body w/o Pin	FP-3906209	.50MM	
4	Piston Body w/o Pin	FP-3906208	1.00MM	
4	Piston Kit w/Pin & Retainers	FP-3906223WP	STD	
4	Piston Kit w/Pin & Retainers	FP-3906209WP	.50MM	
4	Piston Kit w/Pin & Retainers	FP-3906208WP	1.00MM	
4	Piston w/Retainer & Rings	FP-3802060	STD	
4	Piston w/Retainer & Rings	FP-3802062	.50MM	
4	Piston w/Retainer & Rings	FP-3802064	1.00MM	
4	Piston w/Pin, Retainer, Rings	FP-PK6223	STD	
4	Piston w/Pin, Retainer, Rings	FP-PK6209	.50MM	
4	Piston w/Pin, Retainer, Rings	FP-PK6208	1.00MM	
4	Pin Bushing	FP-4891178		For fracture split rods
4	Pin Bushing	FP-3901085		For machine split rods
QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
8	Con. Rod Bolt	FP-3900919		For machine split rods only; MJ11 - 1.25 X 59mm
4	Rod Pair	FP-3967060	STD	For fracture split rods
4	Rod Pair	FP-3967061	.25MM	For fracture split rods
4	Rod Pair	FP-3967062	.50MM	For fracture split rods
4	Rod Pair	FP-3967063	.75MM	For fracture split rods
4	Rod Pair	FP-3967064	1.00MM	For fracture split rods
8	Rod Bearing Half Upper/Lower	FP-3939859	STD	For machine split rods
8	Rod Bearing Half Upper/Lower	FP-3901171	.25MM	For machine split rods
8	Rod Bearing Half Upper/Lower	FP-3901172	.50MM	For machine split rods
8	Rod Bearing Half Upper/Lower	FP-3901173	.75MM	For machine split rods
8	Rod Bearing Half Upper/Lower	FP-3901174	1.00MM	For machine split rods
QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-3802040	STD	1-2.40MM, 1-2.36MM, 1-4.00MM (1 cyl. set)
4	Ring Set Single Cylinder	FP-3802042	.50MM	1-2.40MM, 1-2.36MM, 1-4.00MM (1 cyl. set)
4	Ring Set Single Cylinder	FP-3802044	1.00MM	1-2.40MM, 1-2.36MM, 1-4.00MM (1 cyl. set)

**KITS**

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	Piston and Ring Kit	PK1-2742		When depleted use FP-PK12742
1	Piston and Ring Kit w/Bearing	PK2-2742A		When depleted use FP-PK22742A
1	Piston Kit w/Ring Set	FP-PK12742		
1	Piston Kit w/Rings & Bearings	FP-PK22742A		
1	In-Frame Overhaul Kit	FP-4B39PREML		4B3.9; Late; Premium; With Upper Gasket Set & Pan Gasket
1	Complete Overhaul Kit	FP-4B39PREMOHL		4B3.9; Late; Premium; With Front & Rear Seals and Upper & Lower Gasket Sets
1	Complete Overhaul Kit	FP-4B39PREMOH		4B3.9; Premium; With Front & Rear Seals and Upper & Lower Gasket Sets

**27 Loader. Wheel Tractor "B" Series, 4BT3.9 (4T-390) (Turbo). Trencher. Crawler Tractor. Excavator.**  
 3.9L 239 (3921cc) OHV Turbo-Diesel L4, 102mm Bore (Cummins Eng.)

**CYL. HEAD & PARTS**

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
2	Grommet	FP-3900267		Push Rod Cover
4	Valve Cover Gasket	FP-3930906		
1	Head Gasket	FP-3283336		.25 MM O/S Head Gasket
1	Head Gasket	FP-3283569		Standard
1	Head Set	FP-3804896		Standard Head Gasket
1	Head Set	FP-3802362		Standard; .25 MM O/S Head Gasket
2	Grommet	FP-3900267		Cam Follower Cover
QTY	HEAD BOLTS	PART NO.	SIZE	DESCRIPTION
10	Head Bolt	FP-3920780		M12 x 1.75 x 122MM Length
4	Head Bolt	FP-3920779		M12 x 1.75 x 71.5MM Length
QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
4	Bolt	FP-3920781		Rocker Lever Shaft Support; M12 x 1.75 x 180MM Rocker Arm Bolt
QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-3920867		Bare Valve; Chrome plated stem; 1.7720" Head Dia., .3138" Stem Dia., 5.0840" O.A.L.
4	Exhaust	FP-3920868		Bare Valve; Chrome plated stem; 1.6540" Head Dia., .3138" Stem Dia., 5.0810" O.A.L.
4	Exhaust Valve Kit	FP-3802356		Incl. valve & locks
4	Intake Valve Kit	FP-3802355		Incl. valve & locks
8	Keeper	FP-3900250		
QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	FP-3904105		
4	Int.	FP-3906854		
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
4	Guide	FP-3904409		Exh.; Thick wall; .3160" ID, 2.0520" O.A.L.
4	Guide	FP-3904408		Int.; Thick wall; .3160" ID, 2.3970" O.A.L.
4	Guide	FP-3906206		Int. & Exh.; Thin wall; .3162" ID, 2.5000" O.A.L.
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-4936080		1.8800" Free Height
8	Spring	FP-3900276		30 PSI; 2.2350" Free Height
8	Spring	FP-3926700		36 PSI; 2.3850" Free Height
8	Spring	FP-3932453		36 PSI; 2.5500" Free Height
8	Retainer	FP-3900299		
QTY	PUSH RODS	PART NO.	SIZE	DESCRIPTION
8	Push Rod	FP-3284377		Int. & Exh.; 10.9100" O.A.L.
1	Push Rod Cover Gasket	FP-3283767		
QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-3910824		Valve Cover Screw; .364" I.D. x .070" Thick
QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	FP-3957912		Int. & Exh.; For Eng. built after April 2003; Top Hat style; Viton®
8	Valve Stem Seal	FP-3921640		Int. & Exh.; For Eng. built before April 2003
8	Valve Stem Seal	FP-3901097 +		Int. & Exh.; When depleted use FP-3921640
QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
8	Adjusting Screw Nut	FP-203131		3/8" - 24 UNF
4	Bolt	FP-3920781		Rocker Lever Shaft Support; M12 x 1.75 x 180MM Rocker Arm Bolt
4	Support, Rocker Lever	FP-3922488		
4	Rocker Lever Exhaust	FP-3910810		
4	Rocker Lever Intake	FP-3910811		
8	Washer	FP-3900245		Rocker Lever; M19
8	Snap Ring	FP-3900242		Rocker Lever
INT & EXH MANIFOLDS				
QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
4	Exhaust Manifold Gasket	FP-3905443		
1	Int. Manif. Cover Plate Gskt.	FP-3914028		
QTY	AIR INTAKE	PART NO.	SIZE	DESCRIPTION
1	Air Intake Gasket	FP-3969988		
CAMSHAFT GROUP				
QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft	FP-3929039		
8	Lifter	FP-3931623		

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Loader. Wheel Tractor "B" Series, 4BT3.9 (4T-390) (Turbo). Trencher. Crawler Tractor. **27**  
Excavator. (cont.)  
3.9L 239 (3921cc) OHV Turbo-Diesel L4, 102mm Bore (Cummins Eng.)

**FUEL SYSTEM & PARTS**

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
2	Grommet	FP-3900267		Fuel Drain Tube
4	Fuel Injector Seal Ring	FP-3909356		
4	Fuel Injector Sleeve	FP-3919358		For 9mm head
4	Fuel Injector Seal	FP-3930324		
4	Copper Washer	FP-3906659		For 7mm head; 1.50MM Thick
4	Fuel Line Connector	FP-3903380		For 6mm head; Banjo connector

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Fuel Transfer Pump	FP-4983584 *		Diaphragm style
1	Fuel Transfer Pump	FP-3970880 +		Diaphragm style; When depleted use FP-4983584
1	Fuel Transfer Pump	FP-4944713		144.7 - 201.2 LPH; 1/4 x 18 NPTF Fuel Inlet
1	Cover Plate Gasket	FP-3931348		Fuel Transfer Pump Mounting
1	Cover Plate Gasket	FP-3939258		Fuel Transfer Pump Mounting
1	Solenoid Repair Kit	FP-3903575		Fuel Transfer Pump
1	Solenoid Repair Kit	FP-3903576		Fuel Transfer Pump; 24V
4	Washer	FP-3900808		Sealing
2	Washer	FP-3918191		Sealing; Fuel Supply Tube; .500" I.D., Banjo Connector
1	Fuel Filter Gasket	FP-3906694		Large
1	Fuel Filter Gasket	FP-3906695		Small

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Mounting Gasket	FP-3901356		

**COOLING SYSTEM**

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump - Heavy Duty	FP-3286277		
1	Ball Brg.	FP-3910739		Fan Drive
1	Water Pump Seal Ring	FP-3906698		Water pump mounting; Rectangular Ring
1	O-Ring	FP-3883284		Air Intake Connection; For 3.00" Dia. Turbocharger elbow
1	O-Ring	FP-3923331		Thermostat Housing Cover
1	Shaft & Bearing Assembly	FP-3923517		
1	V Belt	FP-3911587		53.5 X 1.125"; Ribbed 8
1	V Belt	FP-3911557		56 X 1.125"; Ribbed 8
1	V Belt	FP-3911588		56.5 X 1.125"; Ribbed 8
1	V Belt	FP-3911568		57 X 1.125"; Ribbed 8
1	V Belt	FP-3911558		59 X 1.125"; Ribbed 8
1	V Belt	FP-3911563		60.5 X 1.125"; Ribbed 8
1	V Belt	FP-3911572		61.5 X 1.125"; Ribbed 8
1	V Belt	FP-3911559		62 X 1.125"; Ribbed 8
1	V Belt	FP-3034946		62.5 X 1.125"; Ribbed 8
1	V Belt	FP-3911575		63 X 1.125"; Ribbed 8
1	V Belt	FP-3911582		70 X 1.125"; Ribbed 8

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	FP-3917324		180 Deg. F
1	Thermostat Kit	FP-3802273		180 Deg. F; Includes Thermostat, Template and O-ring

**ENGINE BLOCK & PARTS**

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-3911535		
1	Washer	FP-3902425		Sealing; Oil Pan Plug
1	Washer	FP-3920773		Sealing; Oil Pan Plug; 18.40MM I.D. x 1.5MM Thick
1	O-Ring	FP-3913994		
1	Gear Cover Gasket	FP-3914385		
1	Rect. or Square Seal	FP-3903475		Tach Drive Cover

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	FP-3802375		
1	In-Frame Gasket Set	FP-3802362S		.25 MM O/S Head Gasket
1	In-Frame Gasket Set	FP-3804896S		Standard Head Gasket

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-3940059	STD	From 1997 and up (Storm Blocks)
1	Cam Brg.	FP-3901306	STD	Position Front only

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler	FP-3957543		
1	Oil Press. Reg. Low Pressure	FP-3918428		Oil Press. Regulator Plunger
1	O-Ring	FP-3909397		Oil Cooler
1	Oil Cooler Core Inner Gasket	FP-3926760		Core
1	Oil Cooler Core Outer Gasket	FP-3929792		

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**27** Loader. Wheel Tractor "B" Series, 4BT3.9 (4T-390) (Turbo). Trencher. Crawler Tractor.  
 (cont.) Excavator.  
 3.9L 239 (3921cc) OHV Turbo-Diesel L4, 102mm Bore (Cummins Eng.)

**ENGINE BLOCK & PARTS (cont.)**

QTY	FREEZE PLUGS	PART NO.	SIZE	DESCRIPTION
1	Expansion Plug	FP-3900687		
2	Expansion Plug	FP-3007635		1.00" Dia.
<b>CRANKSHAFT/OIL PUMP</b>				
QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	FP-3929036		STD; With Gear
1	Crank Gear	FP-3929027		Front
QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-3937111		
1	Gear Housing Gasket	FP-3938156		Front
1	Redi-Sleeve	FP-3906080		Front
1	O-Ring	FP-3913994		
1	Rect. or Square Seal	FP-3915772		Front
QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-3909410		Rear; Single Lip; Dry Clutch
1	Oil Seal Kit	FP-3926126		Single Lip; Dry Clutch; Incl. Wear Sleeve
1	Oil Seal Kit	FP-4089342 +		When depleted use FP-3934486
1	Redi-Sleeve	FP-3906081		Rear
1	Rear Cover Gasket	FP-3928493		
1	Rect. or Square Seal	FP-3912473		Rear; Rectangular
QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-3802010		STD
1	Main Set	FP-3802011		.25MM
1	Main Set	FP-3802012		.50MM
1	Main Set	FP-3802013		.75MM
1	Main Set	FP-3802014		1.00MM
QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Oil Pump	FP-4939585		
1	Pick-Up Tube Gasket	FP-3938157		
1	Pick-Up Tube Gasket	FP-3914383 +		When depleted use FP-3938157
<b>CYLINDER COMPONENTS</b>				
QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Rings	FP-3904166		To return block to Standard
QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	FP-3907163		STD 4BT3.9; Early; 17.5:1 C.R.
4	Piston Body w/o Pin	FP-3908815		.50MM 4BT3.9; Early; 17.5:1 C.R.
4	Piston Body w/o Pin	FP-3908816		1.00MM 4BT3.9; Early; 17.5:1 C.R.
4	Piston Kit w/Pin & Retainers	FP-3907163WP		STD 4BT3.9; Early; 17.5:1 C.R.
4	Piston Kit w/Pin & Retainers	FP-3908815WP		.50MM 4BT3.9; Early; 17.5:1 C.R.
4	Piston Kit w/Pin & Retainers	FP-3908816WP		1.00MM 4BT3.9; Early; 17.5:1 C.R.
4	Piston w/Retainer & Rings	FP-3802160		STD 4BT3.9; Early; 17.5:1 C.R.
4	Piston w/Retainer & Rings	FP-3802132		.50MM 4BT3.9; Early; 17.5:1 C.R.
4	Piston w/Retainer & Rings	FP-3802134		1.00MM 4BT3.9; Early; 17.5:1 C.R.
4	Piston w/Pin, Retainer, Rings	FP-3802712		STD 4BT3.9; Early; 17.5:1 C.R.
4	Piston w/Pin, Retainer, Rings	FP-PK8815		.50MM 4BT3.9; Early; 17.5:1 C.R.
4	Piston w/Pin, Retainer, Rings	FP-PK8816		1.00MM 4BT3.9; Early; 17.5:1 C.R.
4	Piston Body w/o Pin	FP-3907156		STD 4BTA3.9; Early; 16.5:1 C.R.
4	Piston Body w/o Pin	FP-3907157		.50MM 4BTA3.9; Early; 16.5:1 C.R.
4	Piston Body w/o Pin	FP-3907158		1.00MM 4BTA3.9; Early; 16.5:1 C.R.
4	Piston Kit w/Pin & Retainers	FP-3907156WP		STD 4BTA3.9; Early; 16.5:1 C.R.
4	Piston Kit w/Pin & Retainers	FP-3907157WP		.50MM 4BTA3.9; Early; 16.5:1 C.R.
4	Piston Kit w/Pin & Retainers	FP-3907158WP		1.00MM 4BTA3.9; Early; 16.5:1 C.R.
4	Piston w/Retainer & Rings	FP-3802100		STD 4BTA3.9; Early; 16.5:1 C.R.
4	Piston w/Retainer & Rings	FP-3802102		.50MM 4BTA3.9; Early; 16.5:1 C.R.
4	Piston w/Retainer & Rings	FP-3802104		1.00MM 4BTA3.9; Early; 16.5:1 C.R.
4	Piston w/Pin, Retainer, Rings	FP-3802711		STD 4BTA3.9; Early; 16.5:1 C.R.
4	Piston w/Pin, Retainer, Rings	FP-PK7157		.50MM 4BTA3.9; Early; 16.5:1 C.R.
4	Piston w/Pin, Retainer, Rings	FP-PK7158		1.00MM 4BTA3.9; Early; 16.5:1 C.R.
4	Piston Body w/o Pin	FP-3926631		STD 4BT3.9; A Grade; 10 MM Top Ring Land
4	Piston Body w/o Pin	FP-3926632		STD 4BT3.9; B Grade; 10 MM Top Ring Land
4	Piston Body w/o Pin	FP-3926633		STD 4BT3.9; C Grade; 10 MM Top Ring Land
4	Piston Body w/o Pin	FP-3926634		.50MM 4BT3.9; 10 MM Top Ring Land
4	Piston Body w/o Pin	FP-3926635		1.00MM 4BT3.9; 10 MM Top Ring Land
4	Piston Kit w/Pin & Retainers	FP-3926631WP		STD 4BT3.9; A Grade; 10 MM Top Ring Land
4	Piston Kit w/Pin & Retainers	FP-3926632WP		STD 4BT3.9; B Grade; 10 MM Top Ring Land

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**Loader. Wheel Tractor "B" Series, 4BT3.9 (4T-390) (Turbo). Trencher. Crawler Tractor. 27**  
**Excavator. (cont.)**  
 3.9L 239 (3921cc) OHV Turbo-Diesel L4, 102mm Bore (Cummins Eng.)

**CYLINDER COMPONENTS (cont.)**

QTY	PISTONS (cont.)	PART NO.	SIZE	DESCRIPTION
4	Piston Kit w/Pin & Retainers	<b>FP-3926633WP</b>	STD	4BT3.9; C Grade; 10 MM Top Ring Land
4	Piston Kit w/Pin & Retainers	<b>FP-3926634WP</b>	.50MM	4BT3.9; 10 MM Top Ring Land
4	Piston Kit w/Pin & Retainers	<b>FP-3926635WP</b>	1.00MM	4BT3.9; 10 MM Top Ring Land
4	Piston w/Retainer & Rings	<b>FP-3802561</b>	STD	4BT3.9; A Grade; 10 MM Top Ring Land
4	Piston w/Retainer & Rings	<b>FP-3802562</b>	STD	4BT3.9; B Grade; 10 MM Top Ring Land
4	Piston w/Retainer & Rings	<b>FP-3802563</b>	STD	4BT3.9; C Grade; 10 MM Top Ring Land
4	Piston w/Retainer & Rings	<b>FP-3802564</b>	.50MM	4BT3.9; 10 MM Top Ring Land
4	Piston w/Retainer & Rings	<b>FP-3802565</b>	1.00MM	4BT3.9; 10 MM Top Ring Land
4	Piston w/Pin, Retainer, Rings	<b>FP-PK6631</b>	STD	4BT3.9; A Grade; Naturally Aspirated
4	Piston w/Pin, Retainer, Rings	<b>FP-PK6632</b>	STD	4BT3.9; B Grade; 10 MM Top Ring Land
4	Piston w/Pin, Retainer, Rings	<b>FP-PK6633</b>	STD	4BT3.9; C Grade; 10 MM Top Ring Land
4	Piston w/Pin, Retainer, Rings	<b>FP-PK6634</b>	.50MM	4BT3.9; 10 MM Top Ring Land
4	Piston w/Pin, Retainer, Rings	<b>FP-PK6635</b>	1.00MM	4BT3.9; 10 MM Top Ring Land
4	Piston Body w/o Pin	<b>FP-3919041</b>	STD	4BTA3.9
4	Piston Body w/o Pin	<b>FP-3919044</b>	.50MM	4BTA3.9
4	Piston Body w/o Pin	<b>FP-3919045</b>	1.00MM	4BTA3.9
4	Piston Kit w/Pin & Retainers	<b>FP-3919041WP</b>	STD	4BTA3.9
4	Piston Kit w/Pin & Retainers	<b>FP-3919044WP</b>	.50MM	4BTA3.9
4	Piston Kit w/Pin & Retainers	<b>FP-3919045WP</b>	1.00MM	4BTA3.9
4	Piston w/Retainer & Rings	<b>FP-3802248</b>	STD	4BTA3.9
4	Piston w/Retainer & Rings	<b>FP-3802249</b>	.50MM	4BTA3.9
4	Piston w/Retainer & Rings	<b>FP-3802250</b>	1.00MM	4BTA3.9
4	Piston w/Pin, Retainer, Rings	<b>FP-PK9041</b>	STD	4BTA3.9
4	Piston w/Pin, Retainer, Rings	<b>FP-PK9044</b>	.50MM	4BTA3.9
4	Piston w/Pin, Retainer, Rings	<b>FP-PK9045</b>	1.00MM	4BTA3.9
4	Piston Body w/o Pin	<b>FP-3928673</b>	STD	4BTA3.9
4	Piston Body w/o Pin	<b>FP-3928674</b>	.50MM	4BTA3.9
4	Piston Body w/o Pin	<b>FP-3928675</b>	1.00MM	4BTA3.9
4	Piston Kit w/Pin & Retainers	<b>FP-3928673WP</b>	STD	4BTA3.9
4	Piston Kit w/Pin & Retainers	<b>FP-3928674WP</b>	.50MM	4BTA3.9
4	Piston Kit w/Pin & Retainers	<b>FP-3928675WP</b>	1.00MM	4BTA3.9
4	Piston w/Retainer & Rings	<b>FP-3802747</b>	STD	4BTA3.9
4	Piston w/Retainer & Rings	<b>FP-3802764</b>	.50MM	4BTA3.9
4	Piston w/Retainer & Rings	<b>FP-3802765</b>	1.00MM	4BTA3.9
4	Piston w/Pin, Retainer, Rings	<b>FP-PK8673</b>	STD	4BTA3.9
4	Piston w/Pin, Retainer, Rings	<b>FP-PK8674</b>	.50MM	4BTA3.9
4	Piston w/Pin, Retainer, Rings	<b>FP-PK8675</b>	1.00MM	4BTA3.9
4	Piston Body w/o Pin	<b>FP-3930187</b>	STD	4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only
4	Piston Body w/o Pin	<b>FP-3930188</b>	.50MM	4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only
4	Piston Body w/o Pin	<b>FP-3930189</b>	1.00MM	4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only
4	Piston Kit w/Pin & Retainers	<b>FP-3930187WP</b>	STD	4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only
4	Piston Kit w/Pin & Retainers	<b>FP-3930188WP</b>	.50MM	4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only
4	Piston Kit w/Pin & Retainers	<b>FP-3930189WP</b>	1.00MM	4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only
4	Piston w/Retainer & Rings	<b>FP-3802757</b>	STD	4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only
4	Piston w/Retainer & Rings	<b>FP-3802758</b>	.50MM	4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only
4	Piston w/Retainer & Rings	<b>FP-3802759</b>	1.00MM	4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only
4	Piston w/Pin, Retainer, Rings	<b>FP-PK0187</b>	STD	4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only
4	Piston w/Pin, Retainer, Rings	<b>FP-PK0188</b>	.50MM	4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only
4	Piston w/Pin, Retainer, Rings	<b>FP-PK0189</b>	1.00MM	4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only
4	Pin	<b>FP-3934048</b>		Early; For pistons 3907156, 3907157, 3907158, 3907163, 3908815, 3908817
4	Pin	<b>FP-3934047</b>		Late; For pistons 3919041, 3919044, 3919045, 3926631, 3926632, 3926633, 3926634, 3926635, 3928673, 3928674, 3928675, 3930187, 3930188, 3930189
4	Piston Pin Retainer	<b>FP-3920691</b>		
4	Piston Cooling Nozzle	<b>FP-3901020</b>		Pre- 1991
4	Piston Cooling Nozzle	<b>FP-3937214</b>		1991 to 1996
4	Pin Bushing	<b>FP-4891178</b>		For fracture split rods
4	Pin Bushing	<b>FP-3901085</b>		For machine split rods
<b>QTY</b>	<b>CONNECTING RODS &amp; BRGS.</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
8	Con. Rod Bolt	<b>FP-3900919</b>		For machine split rods only; MJ11 - 1.25 X 59mm
4	Rod Pair	<b>FP-3967060</b>	STD	For fracture split rods
4	Rod Pair	<b>FP-3967061</b>	.25MM	For fracture split rods
4	Rod Pair	<b>FP-3967062</b>	.50MM	For fracture split rods
4	Rod Pair	<b>FP-3967063</b>	.75MM	For fracture split rods
4	Rod Pair	<b>FP-3967064</b>	1.00MM	For fracture split rods
8	Rod Bearing Half Upper/Lower	<b>FP-3939859</b>	STD	For machine split rods

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**27** *Loader. Wheel Tractor "B" Series, 4BT3.9 (4T-390) (Turbo). Trencher. Crawler Tractor. (cont.) Excavator.*  
 3.9L 239 (3921cc) OHV Turbo-Diesel L4, 102mm Bore (Cummins Eng.)

**CYLINDER COMPONENTS (cont.)**

<b>CONNECTING RODS &amp; BRGS. (cont.)</b>				
QTY		PART NO.	SIZE	DESCRIPTION
8	Rod Bearing Half Upper/Lower	FP-3901171	.25MM	For machine split rods
8	Rod Bearing Half Upper/Lower	FP-3901172	.50MM	For machine split rods
8	Rod Bearing Half Upper/Lower	FP-3901173	.75MM	For machine split rods
8	Rod Bearing Half Upper/Lower	FP-3901174	1.00MM	For machine split rods
<b>PISTON RINGS</b>				
QTY		PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-3802750	STD	CPL Numbers 1963, 2264, 2623
4	Ring Set Single Cylinder	FP-3802863	.50MM	CPL Numbers 1963, 2264, 2623
4	Ring Set Single Cylinder	FP-3802864	1.00MM	CPL Numbers 1963, 2264, 2623
4	Ring Set Single Cylinder	FP-3802230	STD	4BT3.9; 1-3.00MM, 1-2.36MM, 1-4.00MM (1 cyl. set)
4	Ring Set Single Cylinder	FP-3802232	.50MM	4BT3.9; 1-3.00MM, 1-2.36MM, 1-4.00MM (1 cyl. set)
4	Ring Set Single Cylinder	FP-3802234	1.00MM	4BT3.9; 1-3.00MM, 1-2.36MM, 1-4.00MM (1 cyl. set)

**KITS**

QTY		PART NO.	SIZE	DESCRIPTION
1	Piston and Ring Kit	PK1-2743		4BT Engs.
1	Piston and Ring Kit	PK1-2744		4BTA Engs.
1	Piston and Ring Kit w/Bearing	PK2-2743A		4BT Engs.
1	Piston and Ring Kit w/Bearing	PK2-2744A		4BTA Engs.
1	In-Frame Overhaul Kit	FP-4B39PREML		4BT3.9; Late; Premium; With Upper Gasket Set & Pan Gasket
1	In-Frame Overhaul Kit	FP-4B39PREM		4BT3.9; Premium; With Upper Gasket Set & Pan Gasket
1	Complete Overhaul Kit	FP-4B39PREMOHL		4BT3.9; Late; Premium; With Front & Rear Seals and Upper & Lower Gasket Sets
1	Complete Overhaul Kit	FP-4B39PREMOH		4BT3.9; Premium; With Front & Rear Seals and Upper & Lower Gasket Sets

**28** *Combine A251, A251B, A251G, A251S, 251, 251B, 251BG Engs. (Gas). Wheel Tractor A251, A251B, A251G, A251S, 251, 251B, 251BG Engs. (Gas).*  
 4.1L 251 L4, 4" Bore

**CYL. HEAD & PARTS**

QTY		PART NO.	SIZE	DESCRIPTION
16	Keeper	FP-A27872		251B Eng.
<b>VALVE GUIDE</b>				
8	Guide	FP-VG544		Models 730 & 740; .4050" ID, 3.5800" O.A.L.
4	Guide	FP-A26294		Int.; Model 400, 700 & 800; .4050" ID, 4.3800" O.A.L.
<b>VALVE SPRING</b>				
8	Spring	FP-A66444		Model 770
<b>VALVE MISC.</b>				
4	Rotocap	FP-A66336		Exh.; 251B Eng.
<b>VALVE SEAL</b>				
8	Valve Stem Seal	ST-2001		Positive type; Installation requires valve guide machining; Rubber/PTFE
8	Valve Stem Seal	FP-A58628		251B Eng.; O-Ring style
8	Valve Stem Seal Bulk	ST-2001BC		Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE

**ENGINE BLOCK & PARTS**

QTY		PART NO.	SIZE	DESCRIPTION
1	CAM BEARINGS Cam Set	FP-A23577	STD	W/2.250" dia. brgs.

**CRANKSHAFT/OIL PUMP**

<b>SEALS - FRONT CRANK</b>				
QTY		PART NO.	SIZE	DESCRIPTION
1	Redi-Sleeve	FP-99260		
1	Oil Seal	FP-A157044		
<b>SEALS - REAR CRANK</b>				
1	Oil Seal	415138		
1	Redi-Sleeve	FP-99475		
<b>MAIN BEARINGS</b>				
1	Main Set	FP-7039M	Std-10-20	Optional main set w/o thrust washer
1	Thrust Washer Set	FP-A62572S	STD	Position 3; .156" Thick
1	Thrust Washer Set	FP-A62573S	STD	Position 3; .186" Thick

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**Combine A251, A251B, A251G, A251S, 251, 251B, 251BG Engs. (Gas). Wheel Tractor 28**  
**A251, A251B, A251G, A251S, 251, 251B, 251BG Engs. (Gas). (cont.)**  
 4.1L 251 L4, 4" Bore

**CYLINDER COMPONENTS**

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Pin Bushing	FP-A27846		W/1.3596" pin dia.; 1.500" Pin Dia.
QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	FP-A43173	STD	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43174	2	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43175	10	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43176	20	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43177	30	2.7490" Crank Pin Dia.
QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
1	Premium Set	FP-5194KX	Std Only	3-3/32, 1-1/4
4	Premium Single Cylinder Set	W-5194KX	Std Only	3-3/32, 1-1/4

**Wheel Tractor A251D, 251D Engs. (Diesel) 29**  
 4.1L 251 Diesel L4, 4" Bore

**CYL. HEAD & PARTS**

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
4	Guide	FP-A26294		Int.; 400 Powerdyne; .4050" ID, 4.3800" O.A.L.
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-VS581		Models 400 Powerdyne & 600 Series only; 2.6400" Free Height

**ENGINE BLOCK & PARTS**

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-A23577	STD	W/2.250" dia. brgs.

**CRANKSHAFT/OIL PUMP**

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Redi-Sleeve	FP-99260		
1	Oil Seal	FP-A157044		
QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	415138		
1	Redi-Sleeve	FP-99475		
QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-7039M	Std-10-20	Optional main set w/o thrust washer
1	Thrust Washer Set	FP-A62572S	STD	Position 3; .156" Thick
1	Thrust Washer Set	FP-A62573S	STD	Position 3; .186" Thick

**CYLINDER COMPONENTS**

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	FP-A43173	STD	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43174	2	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43175	10	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43176	20	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43177	30	2.7490" Crank Pin Dia.

**Combine CE Eng. (Gas). Wheel Tractor CE Eng. (Gas). 30**  
 4.3L 260 L4, 3.875" Bore

**CYL. HEAD & PARTS**

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
8	Exhaust	FP-V773		For Int. & Exh.; 1.7500" Head Dia., .4335" Stem Dia., 5.7030" O.A.L.
QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
8	Exh. & Int.	FP-24518125		1.8175" OD, 1.5000" ID, .2480" Depth
QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	ST-2007		Positive type; Rubber

**CYLINDER COMPONENTS**

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
1	Premium Set	FP-5138KX	Std Only	OVERBORE To 4.000"; 2-3/32, 1-1/8, 1-1/4
1	Premium Set	FP-5194KX	Std Only	OVERBORE To 4.000"; 3-3/32, 1-1/4
1	Premium Set	FP-919KX	Std Only	3-1/8, 1-1/4
4	Premium Single Cylinder Set	W-5194KX	Std Only	OVERBORE To 4.000"; 3-3/32, 1-1/4

<b>31 Wheel Tractor HD260 Eng. (Diesel)</b> 4.3L 260 OHV Diesel L4, 3.875" Bore (Continental Eng.)				
<b>CYL. HEAD &amp; PARTS</b>				
<b>QTY</b>	<b>VALVE</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
16	Keeper	VK-140		
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
8	Guide	FP-VG483		.4365" ID, 2.8750" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
8	Spring	FP-A30025		
<b>CYLINDER COMPONENTS</b>				
<b>QTY</b>	<b>PISTONS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Pin Bushing	FP-1669Y20		
<b>32 Combine A267, A267B, A267BD, A267D, 267, 267B Eng. (Diesel). Wheel Tractor A267, A267B, A267BD, A267D, 267, 267B Eng. (Diesel). Wheel Loader A267, A267B, A267BD, A267D, 267, 267B Eng. (Diesel).</b> 4.4L 267 Diesel L4, 4.125" Bore				
<b>CYL. HEAD &amp; PARTS</b>				
<b>QTY</b>	<b>VALVE</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Intake	FP-A11801		A267D Eng.;; Model 730
4	Exhaust	FP-A11802		A267D Eng.;; Model 730
16	Keeper	FP-A27872		A267BD, 4-267BD Eng.;; Model 730
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Guide	FP-A11803		Exh.; A267D Eng.;; Model 730; .4050" ID, 3.2200" O.A.L.
8	Guide	FP-A11803		Exh. & Int.; A267BD, 4-267BD Eng.;; Model 770; .4050" ID, 3.2200" O.A.L.
4	Guide	FP-A26294		Int.; A267D Eng.;; Model 730; .4050" ID, 4.3800" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
8	Spring	FP-A66444		A267BD Eng.;
<b>QTY</b>	<b>VALVE SEAL</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
8	Valve Stem Seal	FP-A58628		A267BD Eng.;; O-Ring style
<b>ENGINE BLOCK &amp; PARTS</b>				
<b>QTY</b>	<b>GASKET SETS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Complete Overhaul Gasket Set	FP-PGE267LC		A267BD, 4-267BD Eng. only; Model 770
1	Complete Overhaul Gasket Set	FP-PGE267EC		Eng. oil pan gskt. for Case-O-Matic & Model. 730 after Ser. No. 8353501 not incl.
<b>QTY</b>	<b>CAM BEARINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Cam Set	FP-A23577	STD	W/2.250" dia. brgs.
<b>CRANKSHAFT/OIL PUMP</b>				
<b>QTY</b>	<b>SEALS - FRONT CRANK</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Redi-Sleeve	FP-99260		
1	Oil Seal	FP-A157044		
<b>QTY</b>	<b>SEALS - REAR CRANK</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Oil Seal	415138		
1	Redi-Sleeve	FP-99475		
<b>QTY</b>	<b>MAIN BEARINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Main Set	FP-7039M	Std-10-20	Optional main set w/o thrust washer
1	Thrust Washer Set	FP-A62572S	STD	Position 3; .156" Thick
1	Thrust Washer Set	FP-A62573S	STD	Position 3; .186" Thick
<b>CYLINDER COMPONENTS</b>				
<b>QTY</b>	<b>LINERS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Liner w/Sealing Rings	FP-A23658WS	STD	
4	Liner w/Sealing Rings	FP-A182186WS	STD	Wheel Tractor Model 770 only, A267BD, 4-267BD Eng.;
4	Cylinder Kit Complete	FP-A418211	STD	Contains cast-iron piston w/1.359" dia. pin
4	Cylinder Kit Complete	FP-A404791	STD	Contains Alum. piston w/1.500" dia. pin
4	Cylinder Kit Complete	FP-A1481351	STD	Wheel Tractor Model 770 only, A267BD Eng.;
<b>QTY</b>	<b>PISTONS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Piston Body w/o Pin	FP-2489N	STD	OVERBORE To 4.250"; 700B Eng. only; 3-3/32, 1-1/4 Ring Groove; Flat Head
4	Piston Kit w/Pin & Retainers	FP-A11101WP	STD	Exc. Model 770 Eng.;; w/1.3586" pin dia.;; Cast; 3-3/32, 1-1/4 Ring Groove; Flat Head. Cast Iron
4	Piston Kit w/Pin & Retainers	FP-A24488WP	STD	Exc. Model 770 Eng.;; w/1.500" pin dia.;; Cast; 3-3/32, 1-1/4 Ring Groove; Flat Head. Alum. w/Ni-Resist Insert

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**Combine A267, A267B, A267BD, A267D, 267, 267B Eng. (Diesel). Wheel Tractor A267, 32 A267B, A267BD, A267D, 267, 267B Eng. (Diesel). Wheel Loader A267, A267B, A267BD, (cont.) A267D, 267, 267B Eng. (Diesel). 4.4L 267 Diesel L4, 4.125" Bore**

**CYLINDER COMPONENTS (cont.)**

QTY	PISTONS (cont.)	PART NO.	SIZE	DESCRIPTION
4	Piston Kit w/Pin & Retainers	FP-A65127WP	STD	Wheel Tractor Model 770 only A267BD, 4-267BD Eng.; Cast; 2-3/32, 1-1/4 Ring Groove; Dish Head .890" deep x 2.310" dia. w/2 valve reliefs
4	Pin Bushing	FP-A27846		W/1.3586" pin dia.; 1.500" Pin Dia.
QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	FP-A43173	STD	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43174	2	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43175	10	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43176	20	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43177	30	2.7490" Crank Pin Dia.
QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-A41967	STD	A267BD Eng.; 2-3/32, 1-1/4
4	Ring Set Single Cylinder	FP-A40364	STD	A267D Eng.; 3-3/32, 1-1/4
4	Ring Set Single Cylinder	FP-A40367	STD	OVERBORE TO 4.250"; 3-3/32, 1-1/4
2	Premium Set	FP-A41967S	STD	A267BD Eng.; 2-3/32, 1-1/4; 2 Cyl Set
1	Premium Set	FP-A40364S	STD	A267D Eng.; 3-3/32, 1-1/4
1	Premium Set	FP-A40367S	STD	OVERBORE TO 4.250"; 3-3/32, 1-1/4
4	Premium Single Cylinder Set	W-10138KX	Std Only	A267BD Eng.; 2-3/32, 1-1/4 (2 cyl. set)
4	Premium Single Cylinder Set	W-5538KX	Std Only	A267D Eng.; 3-3/32, 1-1/4

**KITS**

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-IFK267L		A267BD, 4-267BD, Late Eng. only
1	In-Frame Overhaul Kit	FP-IFK267E		W/1.3586" pin dia. & thrust washer set; Oil pan gskt. for Case-O-Matic & Model 730 From Ser. No. 8353501 not incl.
1	In-Frame Overhaul Kit	FP-IFK267E		W/1.500" pin dia. & thrust washer set; Oil pan gskt. for Case-O-Matic & Model 730 From Ser. No. 8353501 not incl.

**Combine H-273, HA-273 Eng. (Gas) 33**  
4.5L 273 OHV V8, 3.625" Bore (Chrysler Eng.)

**ENGINE BLOCK & PARTS**

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	1484M	Std Only	
1	Cam Set	1451M	Std Only	.760" length ctr. brg.

**CRANKSHAFT/OIL PUMP**

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Harmonic Balancer Sleeve	88218		
QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Redi-Sleeve	99218		
1	Oil Seal	3103		
QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	5414		
QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	4923MA	Std-1-10-20-30-40-50-60	A-Series aluminum bearings

**CYLINDER COMPONENTS**

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
8	Pin Bushing	2134Y		
8	Pin Bushing	2134Y20		w/.020" extra bore stock
QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
1	Rod Set	8-2130CP10X2	10X2	Use in .002" O/S Rod Bore
1	Rod Set	8-2130CP	Std-1-10-20-30-40-50	8-2130CA 60 avail. as unplated & resizeable
1	Rod Set	8-2130CA60	60	Unplated & resizeable
8	Rod Pair	2130CP	Std-1-2-10-20-30-40	

<b>34 Wheel Tractor HD277 Eng. (Diesel)</b> 4.5L 277 OHV Diesel L4, 4" Bore (Continental Eng.)				
<b>CYL. HEAD &amp; PARTS</b>				
<b>QTY</b>	<b>VALVE</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
16	Keeper	VK-140		
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
8	Guide	FP-VG483		.4365" ID, 2.8750" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
8	Spring	FP-A30025		
<b>CYLINDER COMPONENTS</b>				
<b>QTY</b>	<b>PISTONS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Pin Bushing	FP-1669Y20		
<b>35 Combine JXC Eng. (Gas)</b> 4.6L 282 L-HEAD L6, 3.75" Bore (Hercules Eng.)				
<b>CYL. HEAD &amp; PARTS</b>				
<b>QTY</b>	<b>VALVE</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
6	Intake	FP-V318		1.6930" Head Dia., .3725" Stem Dia., 5.1150" O.A.L.
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
12	Guide	FP-VG414		.3745" ID, 2.3600" O.A.L.
<b>ENGINE BLOCK &amp; PARTS</b>				
<b>QTY</b>	<b>CAM BEARINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Cam Set	FP-1090M		Std Only
<b>CRANKSHAFT/OIL PUMP</b>				
<b>QTY</b>	<b>MAIN BEARINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Plain Main Brg.	FP-2241CP10	10	Position 1
1	Plain Main Brg.	FP-2241CP20	20	Position 1
1	Plain Main Brg.	FP-2241CP30	30	Position 1
4	Plain Main Brg.	FP-2243CP10	10	Position 2-3-5-6
4	Plain Main Brg.	FP-2243CP20	20	Position 2-3-5-6
4	Plain Main Brg.	FP-2243CP30	30	Position 2-3-5-6
1	Plain Main Brg.	FP-2242CP10	10	Position 4
1	Plain Main Brg.	FP-2242CP20	20	Position 4
1	Plain Main Brg.	FP-2242CP30	30	Position 4
1	Plain Main Brg.	FP-2244CP10	10	Position 7
1	Plain Main Brg.	FP-2244CP20	20	Position 7
1	Plain Main Brg.	FP-2244CP30	30	Position 7
<b>CYLINDER COMPONENTS</b>				
<b>QTY</b>	<b>PISTONS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
6	Pin Bushing	FP-1424X		Drilled rod type bushing
<b>QTY</b>	<b>CONNECTING RODS &amp; BRGS.</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
6	Rod Pair	FP-1420CP	Std-10-20-40	w/1.9870-1.9880" std. shaft size
<b>QTY</b>	<b>PISTON RINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Premium Set	FP-645KX	Std Only	3-1/8, 1-3/16
6	Premium Single Cylinder Set	W-645KX	Std Only	3-1/8, 1-3/16
<b>36 Combine A284G, A284GF, A284S, 284, 284B, 284S Eng. (Gas). Wheel Tractor A284G, A284GF, A284S, 284, 284B, 284S Eng. (Gas).</b> 4.7L 284 L4, 4.25" Bore				
<b>CYL. HEAD &amp; PARTS</b>				
<b>QTY</b>	<b>VALVE</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
16	Keeper	FP-A27872		284 Eng.
<b>QTY</b>	<b>VALVE SEAT</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
4	Exh.	FP-24518125		830 & 840 Models; 1.8175" OD, 1.5000" ID, .2480" Depth
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
8	Guide	FP-VG544		284S Eng.; .4050" ID, 3.5800" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
8	Spring	FP-A21076		284 Eng.
<b>ENGINE BLOCK &amp; PARTS</b>				
<b>QTY</b>	<b>CAM BEARINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Cam Set	FP-A23577	STD	W/2.250" dia. brgs.

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*Combine A284G, A284GF, A284S, 284, 284B, 284S Engs. (Gas). Wheel Tractor A284G, 36  
A284GF, A284S, 284, 284B, 284S Engs. (Gas). (cont.)  
4.7L 284 L4, 4.25" Bore*

**CRANKSHAFT/OIL PUMP**

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Redi-Sleeve	FP-99260		
1	Oil Seal	FP-A157044		
QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	415138		
1	Redi-Sleeve	FP-99475		
QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-7039M	Std-10-20	Optional main set w/o thrust washer
1	Thrust Washer Set	FP-A62572S	STD	Position 3; .156" Thick
CYLINDER COMPONENTS				
QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Pin Bushing	FP-A27846		W/1.3596" pin dia.; 1.500" Pin Dia.
QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	FP-A43173	STD	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43174	2	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43175	10	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43176	20	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43177	30	2.7490" Crank Pin Dia.
QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-A40367	STD	3-3/32, 1-1/4
1	Premium Set	FP-A40367S	STD	3-3/32, 1-1/4

*Combine GO298 Eng. (Gas) 37  
4.9L 298 OHV L6, 3.75" Bore (Hercules Eng.)*

**CYL. HEAD & PARTS**

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-V318		1.6930" Head Dia., .3725" Stem Dia., 5.1150" O.A.L.
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
12	Guide	FP-VG414		.3745" ID, 2.3600" O.A.L.

**ENGINE BLOCK & PARTS**

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-1226M	Std Only	
CYLINDER COMPONENTS				
QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	FP-1420CP	Std-10-20-40	w/1.9870-1.9880" std. shaft size
6	Rod Pair	3160CP	Std-10	w/2.3730-2.3740" std. shaft size
QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Premium Set	FP-5648KX	Std Only	GO-298 Engs.; 1-3/32, 1-1/8, 2-3/16 (1 cyl. set)

*Combine A301, 301B, 301BG Engs. (Gas). Wheel Tractor A301, 301B, 301BG Engs. (Gas). 38  
5.0L 301 L4, 4.375" Bore*

**CYL. HEAD & PARTS**

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
16	Keeper	FP-A27872		
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-A66444		
QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
4	Rotocap	FP-A66336		Exh.
QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	FP-A58628		O-Ring style

**ENGINE BLOCK & PARTS**

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-A23577	STD	W/2.250" dia. brgs.

**CRANKSHAFT/OIL PUMP**

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Redi-Sleeve	FP-99260		

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**38 Combine A301, 301B, 301BG Eng. (Gas). Wheel Tractor A301, 301B, 301BG Eng. (Gas).**  
 (cont.) 5.0L 301 L4, 4.375" Bore

**CRANKSHAFT/OIL PUMP (cont.)**

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	(cont.) Oil Seal	FP-A157044		
1	Oil Seal	FP-A62050		
1	Redi-Sleeve	FP-99475		
1	MAIN BEARINGS	FP-7039M	Std-10-20	Optional main set w/o thrust washer
1	Main Set	FP-7039M	Std-10-20	Optional main set w/o thrust washer
1	Thrust Washer Set	FP-A62572S	STD	Position 3; .156" Thick
<b>CYLINDER COMPONENTS</b>				
4	LINERS	FP-A148203WS	STD	Incl. (2) sealing rings; Flange dia. 5.173"
4	Liner w/Sealing Rings	FP-A148203WS	STD	Incl. (2) sealing rings; Flange dia. 5.173"
4	PISTONS	FP-A27846		DESCRIPTION
4	Pin Bushing	FP-A27846		W/1.3596" pin dia.; 1.500" Pin Dia.
1	CONNECTING RODS & BRGS.	FP-A43173	STD	2.7490" Crank Pin Dia.
1	Rod Pair	FP-A43173	STD	2.7490" Crank Pin Dia.
1	Rod Pair	FP-A43174	2	2.7490" Crank Pin Dia.
1	Rod Pair	FP-A43175	10	2.7490" Crank Pin Dia.
1	Rod Pair	FP-A43176	20	2.7490" Crank Pin Dia.
1	Rod Pair	FP-A43177	30	2.7490" Crank Pin Dia.

**39 Combine A301BD, A301D, 301, 301B Eng. (Diesel). Wheel Tractor A301BD, A301D, 301, 301B Eng. (Diesel). Crawler Tractor A301BD, A301D, 301, 301B Eng. (Diesel). Wheel Loader A301BD, A301D, 301, 301B Eng. (Diesel).**  
 5.0L 301 Diesel L4, 4.375" Bore

**CYL. HEAD & PARTS**

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
16	Keeper	FP-A27872		
4	VALVE GUIDE	FP-A11803		Exh.; A301D & A301DF Eng.;
4	Guide	FP-A11803		.4050" ID, 3.2200" O.A.L.
4	Guide	FP-A26294		Int.; A301D & A301DF Eng.;
4	Guide	FP-A26294		.4050" ID, 4.3800" O.A.L.
8	VALVE SPRING	FP-A21076		DESCRIPTION
8	Spring	FP-A21076		A301D & A301DF Eng.
4	VALVE MISC.	FP-A66336		DESCRIPTION
4	Rotocap	FP-A66336		Exh.; A301D, A301BD Eng.
8	VALVE SEAL	FP-A58628		DESCRIPTION
8	Valve Stem Seal	FP-A58628		A301D, A301BD Eng.;
				O-Ring style

**ENGINE BLOCK & PARTS**

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	FP-PGE301LC		Complete, A301BD Eng.
1	Complete Overhaul Gasket Set	FP-PGE301EC		Complete, A301D & A301DF Eng.
1	CAM BEARINGS	FP-A23577	STD	DESCRIPTION
1	Cam Set	FP-A23577	STD	W/2.250" dia. brgs.

**CRANKSHAFT/OIL PUMP**

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Redi-Sleeve	FP-99260		
1	Oil Seal	FP-A157044		
1	SEALS - REAR CRANK	FP-A62050		DESCRIPTION
1	Oil Seal	FP-A62050		
1	Redi-Sleeve	FP-99475		
1	MAIN BEARINGS	FP-7039M	Std-10-20	Optional main set w/o thrust washer
1	Main Set	FP-7039M10	Std-10-20	Optional main set w/o thrust washer
1	Main Set	FP-7039M20	Std-10-20	Optional main set w/o thrust washer
1	Thrust Washer Set	FP-A62572S	STD	Position 3; .156" Thick
1	Thrust Washer Set	FP-A62573S	STD	Position 3; .186" Thick
2	Thrust Washer Pc.	FP-A62572	STD	Position 3; .156" Thick
2	Thrust Washer Pc.	FP-A62573	STD	Position 3; .186" Thick

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**Combine A301BD, A301D, 301, 301B Engs. (Diesel). Wheel Tractor A301BD, A301D, 301, 301B Engs. (Diesel). Crawler Tractor A301BD, A301D, 301, 301B Engs. (Diesel). Wheel Loader A301BD, A301D, 301, 301B Engs. (Diesel).** (cont.)  
5.0L 301 Diesel L4, 4.375" Bore

**CYLINDER COMPONENTS**

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Rings	FP-A148203		A301BD Engs.; Flange dia. 5.173"
4	Liner w/o Sealing Rings	FP-A23660		A301D & A301DF Engs.; Flange Dia. 5.127"
4	Liner w/Sealing Rings	FP-A148203WS	STD	A301BD Engs.; Incl. (2) sealing rings; Flange dia. 5.173"
4	Liner w/Sealing Rings	FP-A23660WS	STD	A301D & A301DF Engs.; Flange Dia. 5.127"
4	Cylinder Kit Complete	FP-A460221	STD	A301BD Engs.; Liner Flange Dia. 5.173"
4	Cylinder Kit Complete	FP-A429951	STD	A301D & A301DF Engs.; Liner Flange Dia. 5.127"
8	Sealing Ring, Liner	FP-2385246		Use 2 per liner
QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	FP-A64766		A301BD Engs.; Cast; 2-3/32, 1-1/4 Ring Groove; Dish Head .908" deep x 2.450" dia. w/2 valve reliefs
4	Piston Body w/o Pin	FP-A57139		A301D & A301DF Engs.; Cast; 3-3/32, 1-1/4 Ring Groove; Flat Head
4	Piston Kit w/Pin & Retainers	FP-A64766WP	STD	A301BD Engs.; Cast; 2-3/32, 1-1/4 Ring Groove; Dish Head .908" deep x 2.450" dia. w/2 valve reliefs
4	Piston Kit w/Pin & Retainers	FP-A57139WP	STD	A301D & A301DF Engs.; Cast; 3-3/32, 1-1/4 Ring Groove; Flat Head
4	Pin	FP-A64767		1.501" Dia.
8	Piston Pin Retainer	FP-A21016		Use w/FP-A57139 Piston
8	Piston Pin Retainer	FP-10021150		Use w/FP-A64766 Piston
4	Pin Bushing	FP-A27846		1.500" Pin Dia.
QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	FP-A43173	STD	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43174	2	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43175	10	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43176	20	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43177	30	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A4317340	40	2.7490" Crank Pin Dia.
QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-A43028	STD	A301BD Engs.; 2-3/32, 1-1/4; 1 cyl. set
4	Ring Set Single Cylinder	FP-A42996	STD	A301D & A301DF Engs.; 3-3/32, 1-1/4
2	Premium Set	FP-A43028S	STD	A301BD Engs.; 2-3/32, 1-1/4 (2 cyl. set)
1	Premium Set	FP-A42996S	STD	A301D & A301DF Engs.; 3-3/32, 1-1/4
4	Premium Single Cylinder Set	W-10162KX + Std Only		A301BD Engs.; 2-3/32, 1-1/4; 1 cyl. set; When depleted use FP-A43028
4	Premium Single Cylinder Set	W-5701KX + Std Only		A301D & A301DF Engs.; 3-3/32, 1-1/4; When depleted use FP-A42996
KITS				
QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Kit	FP-IFK301L		A-301BD Engs.; w/thrust washer set
1	Complete Overhaul Kit	FP-IFK301E		A-301D & A-301DF Engs.; w/thrust washer set

**Combine H-318, LH-318 Engs. (Gas) 40**  
5.2L 318 OHV V8, 3.9063" Bore (Chrysler Eng.)

**CYL. HEAD & PARTS**

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
8	Intake	V-1344	Std Only	H-318 & HT-318 Engs.; 2 groove; 1.8440" Head Dia., .3725" Stem Dia., 4.6000" O.A.L.
8	Intake	V-1722	Std-5-15	LH-318 & LT-318 Engs.; 2 groove; 1.7800" Head Dia., .3725" Stem Dia., 4.9790" O.A.L.
8	Exhaust	V-1343	Std Only	H-318, HT-318 Engs.; 4 groove; 1.5630" Head Dia., .3715" Stem Dia., 4.5390" O.A.L.
8	Exhaust	V-1389	Std Only	HT-318 Engs.; 2 groove; 1.5630" Head Dia., .3715" Stem Dia., 4.5390" O.A.L.
8	Exhaust	V-2029	Std-5-15	LH-318 & LT-318 Engs.; 4 groove; Chrome plated stem; 1.5000" Head Dia., .3715" Stem Dia., 5.0020" O.A.L.
8	Exhaust, Bulk	V-2029B15	15	LH-318 & LT-318 Engs.; 4 groove; Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3914" Stem Dia., 5.0020" O.A.L.
16	Keeper	VK-138		1 groove; Square cut key groove; Hardened
16	Keeper	VK-138R		1 groove; Square cut key groove; Hardened
16	Keeper	VK-66		2 groove
16	Keeper	VK-66R		2 groove; Hardened
16	Keeper	VK-174		4 groove
16	Keeper	VK-174R		4 groove; Hardened

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+ Superseded Part Number

<b>40 Combine H-318, LH-318 Engs. (Gas)</b> (cont.) 5.2L 318 OHV V8, 3.9063" Bore (Chrysler Eng.)				
<b>CYL. HEAD &amp; PARTS (cont.)</b>				
<b>QTY</b>	<b>VALVE (cont.)</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
16	Keeper, Bulk	<b>VK-138B</b>		1 groove; Square cut key groove; Carton of 1000
8	Exh.	<b>245-1687-2N</b> Std Only		Use w/V-1343; Premium Material; 1.6925" OD, 1.4375" ID, .2160" Depth
8	Exh.	<b>245-1687-2</b> Std Only		Use w/V-1343; 1.6925" OD, 1.4375" ID, .2160" Depth
8	Int.	<b>245-1937-1</b> Std Only		Use w/V-1344; 1.9425" OD, 1.6875" ID, .2480" Depth
8	Guide	<b>VG-5062</b>		Exh.; .3735" ID, 2.3800" O.A.L.
8	Guide	<b>VG-5033</b>		Int.; .3735" ID, 2.6200" O.A.L.
8	Spring	<b>VS-680</b>		Exh.; HT-318 Engs.; 1.8800" Free Height
16	Spring	<b>VS-1435</b>		Exh. & Int.; H-318 Engs.; 1.9650" Free Height
16	Spring	<b>VS-680</b>		Exh. & Int.; 5 3/4 coils - R.H.; LH-318 & LT-318 Engs.; 1.8800" Free Height
16	Spring	<b>VS-510</b>		Exh. & Int.; 6 1/4 coils - L.H.; LH-318 & LT-318 Engs.; 2.0000" Free Height
8	Spring	<b>VS-1435</b>		Int.; HT-318 Engs.; 1.9650" Free Height
16	Spring, Bulk	<b>VS-1435B</b>		Exh. & Int.; H-318 Engs.; Carton of 250; 1.9650" Free Height
8	Spring, Bulk	<b>VS-1435B</b>		Int.; HT-318 Engs.; Carton of 250; 1.9650" Free Height
16	Push Rod	<b>RP-3030</b>		H-318 & HT-318 Engs.; w/Mech. lifters; Ball & cup type ends; .360" dia. ball at one end; 8.7350" O.A.L.
16	Push Rod	<b>RP-3194</b>		LH-318 & LT-318 Engs.; .312" dia. ball at both ends; 7.5000" O.A.L.
16	Push Rod, Bulk	<b>BRP-3194</b>		LH-318 Engs.; LT-318 Engs.; .312" dia. ball at both ends; Carton of 100; 7.5000" O.A.L.
8	Valve Stem Seal	<b>ST-2048</b>		Int.; W/5-bolt valve covers; OEM style; Positive type; Viton®
8	Valve Stem Seal	<b>MV-1918</b>		Exh.; Umbrella type; Viton®
8	Valve Stem Seal	<b>MV-1771C</b>		Int.; Umbrella type; Polyacrylate
8	Valve Stem Seal Bulk	<b>MV-1771</b>		Int.; Umbrella type; Carton of 100; Polyacrylate
8	Arm	<b>R-861</b>		L.H.; LH-318 & LT-318 Engs.
8	Arm	<b>R-862</b>		R.H.; LH-318 & LT-318 Engs.
8	Arm, Bulk	<b>R-861B</b>		L.H.; LH-318 & LT-318 Engs.; Carton of 64
8	Arm, Bulk	<b>R-862B</b>		R.H.; LH-318 & LT-318 Engs.; Carton of 64
<b>CAMSHAFT GROUP</b>				
1	3 Piece Set	<b>KT3-361S</b>		LH-318 Engs.; Incl. silent type chain; Incl. (1) 222-361, (1) 223-358, (1) 223-359
1	Timing Chain	<b>222-348</b>		H-318 Engs.; Silent type; 68 Links
1	Timing Chain	<b>222-361</b>		LH-318 Engs.; Silent type; 68 Links
1	Crank Sprocket	<b>223-274</b>		H-318 Engs.; Use w/silent type chain; .750" wide sprocket; 23 Teeth
1	Crank Sprocket	<b>223-359</b>		LH-318 Engs.; Use w/silent type chain; .405" tooth width sprocket; 23 Teeth
1	Cam Sprocket	<b>223-358</b>		LH-318 Engs.; Use w/silent type chain; 46 Teeth
1	Camshaft	<b>CS-645</b>		LH318 Engs.; Hyd.
16	Lifter	<b>AT-2084</b> Std Only		H-318 Engs.; Dumbbell shaped mech.
16	Lifter	<b>HT-879</b> Std Only		H-318 Engs.; Hyd.
16	Lifter	<b>HT-2011</b> Std Only		LH-318 Engs.; Hyd.; w/2 grooves
16	Lifter, Bulk	<b>AT-2084B</b> Std Only		H-318 Engs.; Dumbbell shaped mech.; Carton of 117
16	Lifter, Bulk	<b>HT-2011B</b> Std Only		LH-318 Engs.; Hyd.; w/2 grooves; Carton of 117
1	Prelube	<b>55-400</b>		4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.
<b>ENGINE BLOCK &amp; PARTS</b>				
1	Kit Gasket Set	<b>260-1154</b>		W/2 Bbl. Carb.; Premium valve stem seals incl.
1	Kit Gasket Set	<b>260-1121</b>		W/4 Bbl. Carb.; Premium valve stem seals incl.
1	Cam Set	<b>1484M</b> Std Only		

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*Combine H-318, LH-318 Eng. (Gas) 40*  
5.2L 318 OHV V8, 3.9063" Bore (Chrysler Eng.) (cont.)

**CRANKSHAFT/OIL PUMP**

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Harmonic Balancer Sleeve	<b>88218</b>		
QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Redi-Sleeve	<b>99218</b>		
1	Oil Seal	<b>3103</b>		
QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	<b>5414</b>		
QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	<b>5024MA</b> Std-1-10-20-30		A-Series aluminum bearings; 3.530" max. flange OD; Pos. 1 upper brg. grooved
1	Main Set	<b>4923MA</b> Std-1-10-20-30-40-50-60		W/3.374" max. flange OD.; A-Series aluminum bearings
QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Oil Pump	<b>224-4166</b>		

**CYLINDER COMPONENTS**

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
8	Powerforged	<b>L-2329F30</b> 30		LH-318 Eng.; To Ser. No. E-169358.; Repl. O.E. No. 3004509; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.759" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs. DUROSHIELD® skirt coated piston.
8	Forged Piston - Individual	<b>WL-2329F30</b> 30		LH-318 Eng.; To Ser. No. E-169358.; Repl. O.E. No. 3004509; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.759" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs. DUROSHIELD® skirt coated piston.
8	Pin Bushing	<b>2134Y</b>		
QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
1	Rod Set	<b>8-2130CP</b> Std-1-10-20-30-40-50		8-2130CA 60 avail. as unplated & resizeable
1	Rod Set	<b>8-2130CA60</b> 60		Unplated & resizeable
8	Rod Pair	<b>2130CP</b> Std-1-2-10-20-30-40		
QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
1	Premium Set	<b>E-178K</b> Std-20-30-40-60		2-5/64, 1-3/16
1	Standard Set	<b>E-178X</b> Std-20-30-40-60		2-5/64, 1-3/16
8	Premium Single Cylinder Set	<b>WE-178K</b> Std-20-30-40-60		2-5/64, 1-3/16
8	Standard Single Cylinder Set	<b>WE-178X</b> Std-20-30-40-60		2-5/64, 1-3/16

**Wheel Tractor A336BD, 336, 336B, 336BD Eng. (Diesel). Crawler Tractor A336BD, 336, 336B, 336BD Eng. (Diesel). Wheel Loader A336BD, 336, 336B, 336BD Eng. (Diesel). Excavator A336BD, 336, 336B, 336BD Eng. (Diesel). Wheel Skidder A336BD, 336, 336B, 336BD Eng. (Diesel). Concrete Placer A336BD, 336, 336B, 336BD Eng. (Diesel).** **41**  
5.5L 336 Diesel L4, 4.625" Bore

**CYL. HEAD & PARTS**

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	<b>FP-A58626</b>		Early style; 45 deg. seat; Chrome plated stem; Replaces O.E. Nos. A41754 & A58626
4	Intake	<b>FP-A182172</b>		Late style; 30 deg. seat; Chrome plated stem; Replaces O.E. Nos. A44575, A66193 & A182172
4	Exhaust	<b>FP-A182173</b>		Chrome plated stem; 1.7500" Head Dia., .4015" Stem Dia., 6.4280" O.A.L.
4	Exhaust	<b>FP-V2422X</b>		Optional stellite face; Chrome plated stem; Replaces O.E. No. A150225; 1.7500" Head Dia., .4015" Stem Dia., 6.4300" O.A.L.
16	Keeper	<b>FP-A27872</b>		
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
8	Guide	<b>FP-A11803</b>		.4050" ID, 3.2200" O.A.L.
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	<b>FP-A66444</b>		
QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
4	Rotocap	<b>FP-A66336</b>		Exh.

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**41** Wheel Tractor A336BD, 336, 336B, 336BD Eng. (Diesel). Crawler Tractor A336BD, 336, (cont.) 336B, 336BD Eng. (Diesel). Wheel Loader A336BD, 336, 336B, 336BD Eng. (Diesel). Excavator A336BD, 336, 336B, 336BD Eng. (Diesel). Wheel Skidder A336BD, 336, 336B, 336BD Eng. (Diesel). Concrete Placer A336BD, 336, 336B, 336BD Eng. (Diesel). 5.5L 336 Diesel L4, 4.625" Bore

**CYL. HEAD & PARTS (cont.)**

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	FP-A58628		O-Ring style

**ENGINE BLOCK & PARTS**

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	FP-PGE336LC		From Ser. No. 2539001; May be used before Ser. No. 2539001 if Cntr. Bores are re-worked & 5.19" Dia. firewall sleeves are used.
1	Complete Overhaul Gasket Set	FP-PGE336EC		To Ser. No. 2539000 w/5.09" Dia. firewall sleeves

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-A23577	STD	W/2.250" dia. brgs.

**CRANKSHAFT/OIL PUMP**

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-7039M	Std-10-20	Optional main set w/o thrust washer
1	Main Set	FP-7039M10	Std-10-20	Optional main set w/o thrust washer
1	Main Set	FP-7039M20	Std-10-20	Optional main set w/o thrust washer
1	Thrust Washer Set	FP-A62572S	STD	Position 3; .156" Thick
1	Thrust Washer Set	FP-A62573S	STD	Position 3; .186" Thick
2	Thrust Washer Pc.	FP-A62572	STD	Position 3; .156" Thick
2	Thrust Washer Pc.	FP-A62573	STD	Position 3; .186" Thick

**CYLINDER COMPONENTS**

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Rings	FP-A153638		From Ser. No. 2539001. For blocks w/5.427" counterbore dia.; Sleeve has 5.19" dia. firewall; May be used before Ser. No. 2539001 if the counterbores are reworked.
4	Liner w/o Sealing Rings	FP-A182185		To Ser. No. 2539000 - for blocks w/5.386" dia. counterbores; Sleeve has 5.09" dia. firewall; Counterbores may be reworked to use FP-A153638WS sleeve with 3 sealing rings and 5.19" dia. firewall.
4	Liner w/Sealing Rings	FP-A153638WS	STD	From Ser. No. 2539001. For blocks w/5.427" counterbore dia.; Sleeve has 5.19" dia. firewall & (3) FP-2387248 sealing rings; May be used before Ser. No. 2539001 if the counterbores are reworked.
4	Liner w/Sealing Rings	FP-A182185WS	STD	To Ser. No. 2539000 - for blocks w/5.386" dia. counterbores; Sleeve has 5.09" dia. firewall & (2) FP-2387157 sealing rings; Counterbores may be reworked to use FP-A153638WS sleeve with 3 sealing rings and 5.19" dia. firewall.
4	Cylinder Kit Complete	FP-A166134	STD	From Ser. No. 2539001; w/1.625" dia. piston pins; Contains FP-A153638 sleeve and FP-A166122 piston
4	Cylinder Kit Complete	FP-CK51233638	STD	From Ser. No. 2539001; w/1.800" dia. piston pins; Contains FP-A153638WS sleeve and FP-A65123WP piston
4	Cylinder Kit Complete	FP-A460251		To Ser. No. 2539000 - for blocks w/5.386" dia. counterbores; Sleeve has 5.09" dia. firewall & (2) FP-2387157 sealing rings; Counterbores may be reworked to use FP-A153638WS sleeve with 3 sealing rings and 5.19" dia. firewall; Contains FP-A182185 sleeve and FP-A65123 piston
4	Cylinder Kit Complete	FP-CK61222185		To Ser. No. 2539000 - for blocks w/5.386" dia. counterbores; Sleeve has 5.09" dia. firewall & (2) FP-2387157 sealing rings; Counterbores may be reworked to use FP-A153638WS sleeve with 3 sealing rings and 5.19" dia. firewall; Contains FP-A182185 sleeve and FP-A166122 piston
12	Sealing Ring, Liner	FP-2387248		Use w/FP-A153638 Liner
8	Sealing Ring, Liner	FP-2387157		Use w/FP-A182185 Liner

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	FP-A166122		From Ser. No. 2539001; Use w/1.625" dia. piston pins
4	Piston Body w/o Pin	FP-A65123		From Ser. No. 2539001; Use w/1.800" dia. piston pins
4	Piston Kit w/Pin & Retainers	FP-A166122WP	STD	From Ser. No. 2539001; w/1.625" dia. piston pins; Cast; 2-3/32, 1-3/16 Ring Groove; Dish Head .812" deep x 2.680" dia. w/2 valve reliefs; 16.1:1 C.R.
4	Piston Kit w/Pin & Retainers	FP-A65123WP	STD	From Ser. No. 2539001; w/1.800" dia. piston pins; 1-1/8, 1-3/32, 1-1/4 Ring Groove; Dish Head .865" deep x 2.680" dia. w/2 valve reliefs
4	Pin	FP-A140607		Use w/FP-A166122 piston
4	Pin	FP-A58584		Use w/FP-A65123 piston; 1.800" Dia.
8	Piston Pin Retainer	FP-10021162		Use w/FP-A166122 piston
8	Piston Pin Retainer	FP-10021181		Use w/FP-A65123 piston

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**Wheel Tractor A336BD, 336, 336B, 336BD Engs. (Diesel). Crawler Tractor A336BD, 336, 336B, 336BD Engs. (Diesel). Wheel Loader A336BD, 336, 336B, 336BD Engs. (Diesel). Excavator A336BD, 336, 336B, 336BD Engs. (Diesel). Wheel Skidder A336BD, 336, 336B, 336BD Engs. (Diesel). Concrete Placer A336BD, 336, 336B, 336BD Engs. (Diesel).** **41**  
 5.5L 336 Diesel L4, 4.625" Bore (cont.)

**CYLINDER COMPONENTS (cont.)**

QTY	PISTONS (cont.)	PART NO.	SIZE	DESCRIPTION
4	Pin Bushing	FP-A58580		W/1.800" pin dia.
QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	FP-A43173	STD	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43174	2	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43175	10	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43176	20	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43177	30	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A4317340	40	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A41758	STD	2.9990" Crank Pin Dia.
4	Rod Pair	FP-A41900	10	2.9990" Crank Pin Dia.
4	Rod Pair	FP-A41901	20	2.9990" Crank Pin Dia.
4	Rod Pair	FP-A41902	30	2.9990" Crank Pin Dia.
QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-A42988	STD	Check piston grooving before supplying ring set; 1-1/8, 1-3/32, 1-1/4; 2 cyl. set; Use w/piston FP-A65123
4	Ring Set Single Cylinder	FP-A48320	STD	Check piston grooving before supplying ring set; 2-3/32, 1-3/16; 2 cyl. set; Use w/piston FP-A166122
2	Premium Set	FP-A42988S	STD	Check piston grooving before supplying ring set; 1-1/8, 1-3/32, 1-1/4; 2 cyl. set; Use w/piston FP-A65123
2	Premium Set	FP-A48320S	STD	Check piston grooving before supplying ring set; 2-3/32, 1-3/16; 2 cyl. set; Use w/piston FP-A166122
KITS				
QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Kit	FP-IFK336L		From Ser. No. 2539001; Late liner; Must specify the correct cylinder kit when ordering this kit; w/5.427" counterbore dia.
1	Complete Overhaul Kit	FP-IFK336E		To Ser. No. 2539000; Early liner; Must specify the correct cylinder kit when ordering this kit; w/5.386" counterbore dia.

**Wheel Tractor A336BDT, 336BDT Engs. (Turbo-Diesel). Crawler Tractor A336BDT, 336BDT Engs. (Turbo-Diesel). Wheel Loader A336BDT, 336BDT Engs. (Turbo-Diesel). Excavator A336BDT, 336BDT Engs. (Turbo-Diesel). Wheel Skidder A336BDT, 336BDT Engs. (Turbo-Diesel). Concrete Placer A336BDT, 336BDT Engs. (Turbo-Diesel).** **42**  
 5.5L 336 Turbo-Diesel L4, 4.625" Bore

**CYL. HEAD & PARTS**

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-A58626		Early style; 45 deg. seat; Chrome plated stem; Replaces O.E. Nos. A41754 & A58626
4	Intake	FP-A182172		Late style; 30 deg. seat; Chrome plated stem; Replaces O.E. Nos. A44575, A66193 & A182172
4	Exhaust	FP-A182173		Chrome plated stem; 1.7500" Head Dia., .4015" Stem Dia., 6.4280" O.A.L.
4	Exhaust	FP-V2422X		Optional stellite face; Chrome plated stem; Replaces O.E. No. A150225; 1.7500" Head Dia., .4015" Stem Dia., 6.4300" O.A.L.
16	Keeper	FP-A27872		
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
8	Guide	FP-A11803		.4050" ID, 3.2200" O.A.L.
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-A66444		
QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
4	Rotocap	FP-A66336		Exh.
QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	FP-A58628		O-Ring style

**ENGINE BLOCK & PARTS**

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	FP-PGE336LC		From Ser. No. 2539001; May be used before Ser. No. 2539001 if Cntr. Bores are re-worked & 5.19" Dia. firewall sleeves are used.
1	Complete Overhaul Gasket Set	FP-PGE336EC		To Ser. No. 2539000 w/5.09" Dia. firewall sleeves

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**42** Wheel Tractor A336BDT, 336BDT Engs. (Turbo-Diesel). Crawler Tractor A336BDT, (cont.) 336BDT Engs. (Turbo-Diesel). Wheel Loader A336BDT, 336BDT Engs. (Turbo-Diesel). Excavator A336BDT, 336BDT Engs. (Turbo-Diesel). Wheel Skidder A336BDT, 336BDT Engs. (Turbo-Diesel). Concrete Placer A336BDT, 336BDT Engs. (Turbo-Diesel). 5.5L 336 Turbo-Diesel L4, 4.625" Bore

**ENGINE BLOCK & PARTS (cont.)**

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-A23577	STD	W/2.250" dia. brgs.

**CRANKSHAFT/OIL PUMP**

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-7039M	Std-10-20	Optional main set w/o thrust washer
1	Main Set	FP-7039M10	Std-10-20	Optional main set w/o thrust washer
1	Main Set	FP-7039M20	Std-10-20	Optional main set w/o thrust washer
1	Thrust Washer Set	FP-A62572S	STD	Position 3; .156" Thick
1	Thrust Washer Set	FP-A62573S	STD	Position 3; .186" Thick
2	Thrust Washer Pc.	FP-A62572	STD	Position 3; .156" Thick
2	Thrust Washer Pc.	FP-A62573	STD	Position 3; .186" Thick

**CYLINDER COMPONENTS**

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Rings	FP-A153638		From Ser. No. 2539001. For blocks w/5.427" counterbore dia.; Sleeve has 5.19" dia. firewall; May be used before Ser. No. 2539001 if the counterbores are reworked.
4	Liner w/o Sealing Rings	FP-A182185		To Ser. No. 2539000 - for blocks w/5.386" dia. counterbores; Sleeve has 5.09" dia. firewall; Counterbores may be reworked to use FP-A153638WS sleeve with 3 sealing rings and 5.19" dia. firewall.
4	Liner w/Sealing Rings	FP-A153638WS	STD	From Ser. No. 2539001. For blocks w/5.427" counterbore dia.; Sleeve has 5.19" dia. firewall & (3) FP-2387248 sealing rings; May be used before Ser. No. 2539001 if the counterbores are reworked.
4	Liner w/Sealing Rings	FP-A182185WS	STD	To Ser. No. 2539000 - for blocks w/5.386" dia. counterbores; Sleeve has 5.09" dia. firewall & (2) FP-2387157 sealing rings; Counterbores may be reworked to use FP-A153638WS sleeve with 3 sealing rings and 5.19" dia. firewall.
4	Cylinder Kit Complete	FP-A1521771	STD	From Ser. No. 2539001; Contains FP-A153638 sleeve; May be used before Ser. No. 2539001 if the cntr. bores are reworked.
4	Cylinder Kit Complete	FP-CK24852185	STD	To Ser. No. 2539000; Contains FP-A182185 sleeve
12	Sealing Ring, Liner	FP-2387248		Use w/FP-A153638 Liner
8	Sealing Ring, Liner	FP-2387157		Use w/FP-A182185 Liner

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	FP-A146697		Cast; 2-1/8, 1-3/16 Ring Groove; Dish Head .790" deep x 2.680" dia. w/2 valve reliefs; 16.1:1 C.R.
4	Piston Body w/o Pin	FP-A152485		Cast; 2-1/8, 1-3/16 Ring Groove; Dish Head .790" deep x 2.680" dia. w/2 valve reliefs; 16.1:1 C.R.
4	Piston Kit w/Pin & Retainers	FP-A146697WP		Cast; 2-1/8, 1-3/16 Ring Groove; Dish Head .790" deep x 2.680" dia. w/2 valve reliefs; 16.1:1 C.R.
4	Piston Kit w/Pin & Retainers	FP-A152485WP	STD	Cast; 2-1/8, 1-3/16 Ring Groove; Dish Head .790" deep x 2.680" dia. w/2 valve reliefs; 16.1:1 C.R.
4	Pin	FP-A58584		1.800" Dia.
8	Piston Pin Retainer	FP-10021181		
4	Pin Bushing	FP-A58580		W/1.800" pin dia.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	FP-A43173	STD	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43174	2	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43175	10	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43176	20	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43177	30	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A4317340	40	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A41758	STD	2.9990" Crank Pin Dia.
4	Rod Pair	FP-A41900	10	2.9990" Crank Pin Dia.
4	Rod Pair	FP-A41901	20	2.9990" Crank Pin Dia.
4	Rod Pair	FP-A41902	30	2.9990" Crank Pin Dia.

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-A44054	STD	Check piston grooving before supplying ring set; 2-1/8, 1-3/16; 2 cyl. set
2	Premium Set	FP-A44054S	STD	Check piston grooving before supplying ring set; 2-1/8, 1-3/16 (2 cyl. set)

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*Wheel Tractor A336BDT, 336BDT Engs. (Turbo-Diesel). Crawler Tractor A336BDT, 336BDT Engs. (Turbo-Diesel). Wheel Loader A336BDT, 336BDT Engs. (Turbo-Diesel). Excavator A336BDT, 336BDT Engs. (Turbo-Diesel). Wheel Skidder A336BDT, 336BDT Engs. (Turbo-Diesel). Concrete Placer A336BDT, 336BDT Engs. (Turbo-Diesel).* **42**  
5.5L 336 Turbo-Diesel L4, 4.625" Bore (cont.)

**KITS**

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Kit	FP-IFK336L		Models 870, W14 & 780CK w/1.800" pin dia. From Ser. No. 2539001. May be used before Ser. No. 2359001 if the cntr. bores are reworked.; Must specify the correct cylinder kit when ordering this kit; w/5.427" counterbore dia.
1	Complete Overhaul Kit	FP-IFK336E		Models 870, W14 & 780CK w/1.800" pin dia. To Ser. No. 2539000; Must specify the correct cylinder kit when ordering this kit; w/5.386" counterbore dia.

*Wheel Tractor A6.354, H6.354, 6.354 Engs. (Diesel)* **43**  
5.8L 354 OHV Diesel L6 (12 Valve), 3.875" Bore (Perkins Eng.)

**CYL. HEAD & PARTS**

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-V1701		1.7440" Head Dia., .3730" Stem Dia., 4.8290" O.A.L.
6	Exhaust	FP-V1700		1.4400" Head Dia., .3725" Stem Dia., 4.8570" O.A.L.
24	Keeper	FP-VK223		
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
6	Guide	FP-VG619		Exh.; .3755" ID, 2.4060" O.A.L.
6	Guide	FP-VG620		Int.; .3755" ID, 2.2810" O.A.L.
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-VS1432		Outer; 2.5780" Free Height
QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	ST-2004		Exh.; Positive type; Installation requires valve guide machining; Rubber/PTFE
6	Valve Stem Seal	MV-1598C		Int.; Umbrella type; Rubber
12	Valve Stem Seal Bulk	ST-2004BC		Exh.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
6	Valve Stem Seal Bulk	MV-1598		Int.; Umbrella type; Carton of 100; Rubber

**CRANKSHAFT/OIL PUMP**

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-4352M	Std Only	T6-354 & T6-354.2 Engs. Only
1	Thrust Washer Set	FP-3137BFA	Std Only	Position 4; Engs. From Ser. No. 8504189
1	Thrust Washer Set	FP-3137BF	Std Only	Position 4; To Ser. No. 8504188

**CYLINDER COMPONENTS**

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Dry Sleeve	FP-SL382M	Std Only	6-354 Engs.; Flanged sleeve w/firewall. Early blocks may require machining for flanged sleeve (instructions incl.)
6	Sleeve Assy.	FP-SL2193	Std Only	6-354 Engs.; Flanged sleeve. Early blocks may require machining for flanged sleeve (instructions incl.)
QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Cast Piston	FP-2193PX	Std Only	6-354 Engs.; Cast; 3-3/32", 2-1/4" Ring Groove, 2.757" CD, 1.3750" Pin Dia., Recessed Head 1.00" deep x 2.125" dia. - 16.0:1 C.R.; Repl. O.E. Nos. MF-738871M91, 2236105
6	Pin Bushing	FP-3139Y15		
QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
3	Premium Set	FP-9194KX	Std-30	6-354 Engs.; 3-3/32, 2-1/4 (2 cyl. set); Do not use w/Chrome liners
3	Standard Set	FP-9596X	Std Only	6-354 Engs.; 3-3/32, 2-1/4 (2 cyl. set)
6	Premium Single Cylinder Set	W-9194KX	Std Only	6-354 Engs.; 3-3/32, 2-1/4 (2 cyl. set); Do not use w/Chrome liners
6	Standard Single Cylinder Set	W-9596X	Std Only	6-354 Engs.; 3-3/32, 2-1/4 (2 cyl. set)

*Power Unit. Wheel Tractor "B" Series, 6B5.9 (6-590) (Naturally Aspirated). Crawler Tractor.* **44**  
5.9L 359 (5882cc) OHV Diesel L6, 102mm Bore (Cummins Eng.)

**CYL. HEAD & PARTS**

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
6	Valve Cover Gasket	FP-3930906		
1	Head Gasket	FP-3283570		Standard Head Gasket; Standard Thickness
1	Head Set	FP-3802363		From 1984-1990; Standard Thickness Head Gasket
1	Head Set	FP-3804897		From 1991-4/2003
1	Head Set	FP-4089649		From 4/2003

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**44 Power Unit. Wheel Tractor "B" Series, 6B5.9 (6-590) (Naturally Aspirated). Crawler Tractor.**  
 (cont.) 5.9L 359 (5882cc) OHV Diesel L6, 102mm Bore (Cummins Eng.)

<b>CYL. HEAD &amp; PARTS (cont.)</b>				
QTY	GASKETS (cont.)	PART NO.	SIZE	DESCRIPTION
6	Bolt	FP-3920781		M12 x 1.75 x 180MM Rocker Arm Bolt
QTY	HEAD BOLTS	PART NO.	SIZE	DESCRIPTION
14	Head Bolt	FP-3920780		M12 x 1.75 x 122MM Length
6	Head Bolt	FP-3920779		M12 x 1.75 x 71.5MM Length
QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-3920867		Bare Valve; Chrome plated stem; 1.7720" Head Dia., .3138" Stem Dia., 5.0840" O.A.L.
6	Exhaust	FP-3920868		Bare Valve; Chrome plated stem; 1.6540" Head Dia., .3138" Stem Dia., 5.0810" O.A.L.
6	Exhaust Valve Kit	FP-3802356		Incl. valve & locks
6	Intake Valve Kit	FP-3802355		Incl. valve & locks
12	Keeper	FP-3900250		
QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-3904105		
6	Int.	FP-3906854		
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
6	Guide	FP-3904409		Exh.; 6B5.9; Thick wall; .3160" ID, 2.0520" O.A.L.
6	Guide	FP-3904408		Int.; 6B5.9; Thick wall; .3160" ID, 2.3970" O.A.L.
6	Guide	FP-3906206		Int. & Exh.; 6B5.9; Thin wall; .3162" ID, 2.5000" O.A.L.
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-4936080		1.8800" Free Height
12	Spring	FP-3900276		30 PSI; 2.2350" Free Height
12	Spring	FP-3926700		36 PSI; 2.3850" Free Height
12	Spring	FP-3932453		36 PSI; 2.5500" Free Height
12	Retainer	FP-3900299		
QTY	PUSH RODS	PART NO.	SIZE	DESCRIPTION
12	Push Rod	FP-3284377		10.9100" O.A.L.
1	Push Rod Cover Gasket	FP-3284623		
QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-3910824		Valve Cover Screw; .364" I.D. x .070" Thick
QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	FP-3921640		Int. & Exh.
12	Valve Stem Seal	FP-3957912		Int. & Exh.; Top Hat style; Viton®
12	Valve Stem Seal	FP-3901097 +		Int. & Exh.; When depleted use FP-3921640
QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
6	Rocker Lever Exhaust	FP-3910810		Exh.
6	Rocker Lever Intake	FP-3910811		Int.
<b>INT &amp; EXH MANIFOLDS</b>				
QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
6	Exhaust Manifold Gasket	FP-3905443		
1	Int. Manif. Cover Plate Gskt.	FP-3914029		
<b>CAMSHAFT GROUP</b>				
QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Oil Filler Cap	FP-101322		2"
QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft	FP-3929042		
12	Lifter	FP-3931623		
<b>FUEL SYSTEM &amp; PARTS</b>				
QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
6	Fuel Injector Seal Ring	FP-3909356		
6	Fuel Injector Sleeve	FP-3919358		For 9mm head
6	Fuel Injector Seal	FP-3930324		
6	Copper Washer	FP-3906659		For 7mm head; 1.50MM Thick
6	Fuel Line Connector	FP-3903380		Banjo connector; 6mm; Banjo connector
QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Fuel Transfer Pump	FP-4983584 *		Diaphragm style
1	Fuel Transfer Pump	FP-3970880 +		Diaphragm style; When depleted use FP-4983584
1	Fuel Transfer Pump	FP-4944713		144.7 - 201.2 LPH; 1/4 x 18 NPTF Fuel Inlet
1	Cover Plate Gasket	FP-3939258		Fuel Transfer Pump Mounting
QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Mounting Gasket	FP-3901356		

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*Power Unit. Wheel Tractor "B" Series, 6B5.9 (6-590) (Naturally Aspirated). Crawler Tractor. 44*  
 5.9L 359 (5882cc) OHV Diesel L6, 102mm Bore (Cummins Eng.) (cont.)

**COOLING SYSTEM**

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump - Heavy Duty	FP-3286277		
1	Water Pump Seal Ring	FP-3906698		Water pump mounting; Rectangular Ring
QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	FP-3917324		180 Deg. F
1	Thermostat Kit	FP-3802273		180 Deg. F; Includes Thermostat, Template and O-ring

**ENGINE BLOCK & PARTS**

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-3959052		
1	Washer	FP-3920773		Sealing; Oil Pan Plug; 18.40MM I.D. x 1.5MM Thick
QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	FP-3802376		Incl. seals
1	In-Frame Gasket Set	FP-3802363S		From 1984-1990; Standard Thickness Head Gasket
QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-3940059	STD	From 1997 and up (Storm Blocks)
1	Cam Brg.	FP-3901306	STD	To 1996
QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler	FP-3957544		7 Plate
1	Oil Cooler Core Inner Gasket	FP-3926760		Inner; Core
1	Oil Cooler Core Outer Gasket	FP-3929792		Outer; Core

**CRANKSHAFT/OIL PUMP**

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	FP-3929037		With Gear
1	Crank Gear	FP-3929027		
QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-3937111		
1	Gear Housing Gasket	FP-3938156		
1	Oil Seal Kit	FP-3802820		Incl. wear sleeve
1	Redi-Sleeve	FP-3906080		
QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-3909410		Flywheel Housing; Single Lip; Dry Clutch
1	Oil Seal	FP-3909411		Wet flywheel housing; Double Lip; Wet Clutch
1	Redi-Sleeve	FP-3906081		
QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-3802070	STD	
1	Main Set	FP-3802071	.25MM	
1	Main Set	FP-3802072	.50MM	
1	Main Set	FP-3802073	.75MM	
1	Main Set	FP-3802074	1.00MM	
QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Oil Pump	FP-4939587		
1	Pick-Up Tube Gasket	FP-3938157		

**CYLINDER COMPONENTS**

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Rings	FP-3904166		To return block to Standard
QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	FP-3906223	STD	17.3:1 C.R.
6	Piston Body w/o Pin	FP-3906209	.50MM	17.3:1 C.R.
6	Piston Body w/o Pin	FP-3906208	1.00MM	17.3:1 C.R.
6	Piston Kit w/Pin & Retainers	FP-3906223WP	STD	17.3:1 C.R.
6	Piston Kit w/Pin & Retainers	FP-3906209WP	.50MM	17.3:1 C.R.
6	Piston Kit w/Pin & Retainers	FP-3906208WP	1.00MM	17.3:1 C.R.
6	Piston w/Retainer & Rings	FP-3802060	STD	17.3:1 C.R.
6	Piston w/Retainer & Rings	FP-3802062	.50MM	17.3:1 C.R.
6	Piston w/Retainer & Rings	FP-3802064	1.00MM	17.3:1 C.R.
6	Piston w/Pin, Retainer, Rings	FP-PK6223	STD	17.3:1 C.R.
6	Piston w/Pin, Retainer, Rings	FP-PK6209	.50MM	17.3:1 C.R.
6	Piston w/Pin, Retainer, Rings	FP-PK6208	1.00MM	17.3:1 C.R.
6	Pin	FP-3934048		
12	Piston Pin Retainer	FP-3920691		
6	Pin Bushing	FP-4891178		For fracture split rods
6	Pin Bushing	FP-3901085		For machine split rods

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**44 Power Unit. Wheel Tractor "B" Series, 6B5.9 (6-590) (Naturally Aspirated). Crawler Tractor. (cont.) 5.9L 359 (5882cc) OHV Diesel L6, 102mm Bore (Cummins Eng.)**

**CYLINDER COMPONENTS (cont.)**

<b>CONNECTING RODS &amp; BRGS.</b>				
QTY		PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-3900919		For machine split rods; MJ11 - 1.25 X 59mm
6	Rod Pair	FP-3967060	STD	For fracture split rods
6	Rod Pair	FP-3967061	.25MM	For fracture split rods
6	Rod Pair	FP-3967062	.50MM	For fracture split rods
6	Rod Pair	FP-3967063	.75MM	For fracture split rods
6	Rod Pair	FP-3967064	1.00MM	For fracture split rods
12	Rod Bearing Half Upper/Lower	FP-3939859	STD	For machine split rods
12	Rod Bearing Half Upper/Lower	FP-3901171	.25MM	For machine split rods
12	Rod Bearing Half Upper/Lower	FP-3901172	.50MM	For machine split rods
12	Rod Bearing Half Upper/Lower	FP-3901173	.75MM	For machine split rods
12	Rod Bearing Half Upper/Lower	FP-3901174	1.00MM	For machine split rods

<b>PISTON RINGS</b>				
QTY		PART NO.	SIZE	DESCRIPTION
1	Ring Set Single Cylinder	FP-3802040	STD	1-2.40MM, 1-2.36MM, 1-4.00MM (1 cyl. set)
1	Ring Set Single Cylinder	FP-3802042	.50MM	1-2.40MM, 1-2.36MM, 1-4.00MM (1 cyl. set)
1	Ring Set Single Cylinder	FP-3802044	1.00MM	1-2.40MM, 1-2.36MM, 1-4.00MM (1 cyl. set)

**KITS**

<b>OVERHAUL KIT</b>				
QTY		PART NO.	SIZE	DESCRIPTION
1	Piston Kit w/Ring Set	FP-PK12742B		
1	Piston Kit w/Rings & Bearings	FP-PK22742B		
1	In-Frame Overhaul Kit	FP-6B59PREML		6B5.9; Late; Premium; With Upper Gasket Set & Pan Gasket
1	In-Frame Overhaul Kit	FP-6B59PREM		6B5.9; Premium; With Upper Gasket Set & Pan Gasket
1	Complete Overhaul Kit	FP6B5.9PREM-OHL		6B5.9; Late; 1991 to Present; Premium; With Front & Rear Seals and Upper & Lower Gasket Sets
1	Complete Overhaul Kit	FP-6B59PREMOH		6B5.9; Pre 1991; Premium; With Front & Rear Seals and Upper & Lower Gasket Sets

**45 Combine 6BT5.9 (6T-590) (Turbo), 6BTA5.9 (6TA-590) (Turbo-Aftercooled Diesel). Cotton Picker. Loader. Power Unit. Wheel Tractor 6BT5.9 (6T-590) Eng. (Turbo-Diesel). Windrower. Crawler Tractor 6BT5.9 (6T-590) Eng. (Turbo-Diesel). Wheel Loader. Excavator. 5.9L 359 (5882cc) OHV Turbo-Diesel L6 (12 Valve), 102mm Bore (Cummins Eng.)**

**CYL. HEAD & PARTS**

<b>GASKETS</b>				
QTY		PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-3930906		Standard
1	Head Gasket	FP-3283337		.25MM Oversize Thickness
1	Head Gasket	FP-3283339		.50MM Oversize Thickness
1	Head Gasket	FP-3283570		Standard; Standard Thickness
1	Head Set	FP-3802364		.25MM Oversize Thickness Head Gasket
1	Head Set	FP-3802245		.50MM Oversize Thickness Head Gasket
1	Head Set	FP-3802363		Standard Thickness Head Gasket
6	Grommet	FP-3900267		Cam Follower Cover

<b>HEAD BOLTS</b>				
QTY		PART NO.	SIZE	DESCRIPTION
14	Head Bolt	FP-3920780		M12 x 1.75 x 122MM Length
6	Head Bolt	FP-3920779		M12 x 1.75 x 71.5MM Length

<b>MISCELLANEOUS</b>				
QTY		PART NO.	SIZE	DESCRIPTION
1	Fuel Manifold	FP-3926103		
6	Bolt	FP-3920781		Rocker Lever Shaft Support; M12 x 1.75 x 180MM Rocker Arm Bolt

<b>VALVE</b>				
QTY		PART NO.	SIZE	DESCRIPTION
6	Intake	FP-3920867		Bare Valve; Chrome plated stem; 1.7720" Head Dia., .3138" Stem Dia., 5.0840" O.A.L.
6	Exhaust	FP-3920868		Bare Valve; Chrome plated stem; 1.6540" Head Dia., .3138" Stem Dia., 5.0810" O.A.L.
6	Exhaust Valve Kit	FP-3802356		Incl. valve & locks
6	Intake Valve Kit	FP-3802355		Incl. valve & locks
24	Keeper	FP-3900250		

<b>VALVE SEAT</b>				
QTY		PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-3904105		
6	Int.	FP-3906854		

<b>VALVE GUIDE</b>				
QTY		PART NO.	SIZE	DESCRIPTION
6	Guide	FP-3904409		Exh.; Thick wall; .3160" ID, 2.0520" O.A.L.
6	Guide	FP-3904408		Int.; Thick wall; .3160" ID, 2.3970" O.A.L.
6	Guide	FP-3906206		Int. & Exh.; Thin wall; .3162" ID, 2.5000" O.A.L.

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*Combine 6BT5.9 (6T-590) (Turbo), 6BTA5.9 (6TA-590) (Turbo-Aftercooled Diesel). Cotton 45 Picker. Loader. Power Unit. Wheel Tractor 6BT5.9 (6T-590) Eng. (Turbo-Diesel). Windrower. (cont.) Crawler Tractor 6BT5.9 (6T-590) Eng. (Turbo-Diesel). Wheel Loader. Excavator. 5.9L 359 (5882cc) OHV Turbo-Diesel L6 (12 Valve), 102mm Bore (Cummins Eng.)*

**CYL. HEAD & PARTS (cont.)**

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-4936080		1.8800" Free Height
12	Spring	FP-3900276		30 PSI; 2.2350" Free Height
12	Spring	FP-3926700		36 PSI; 2.3850" Free Height
12	Spring	FP-3932453		36 PSI; 2.5500" Free Height
12	Retainer	FP-3900299		
QTY	PUSH RODS	PART NO.	SIZE	DESCRIPTION
12	Push Rod	FP-3284377		10.9100" O.A.L.
1	Push Rod Cover Gasket	FP-3284623		
QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-3910824		Valve Cover Screw; .364" I.D. x .070" Thick
QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	FP-3921640		Int. & Exh.
12	Valve Stem Seal	FP-3957912		Int. & Exh.; Top Hat style; Viton®
12	Valve Stem Seal	FP-3901097 +		Int. & Exh.; When depleted use FP-3921640
QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
12	Adjusting Screw Nut	FP-203131		3/8" - 24 UNF
6	Bolt	FP-3920781		Rocker Lever Shaft Support; M12 x 1.75 x 180MM Rocker Arm Bolt
6	Support, Rocker Lever	FP-3922488		
6	Rocker Lever Exhaust	FP-3910810		
6	Rocker Lever Intake	FP-3910811		
12	Washer	FP-3900245		Rocker Lever; M19
12	Snap Ring	FP-3900242		Rocker Lever
INT & EXH MANIFOLDS				
QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
6	Exhaust Manifold Gasket	FP-3905443		
1	Int. Manif. Cover Plate Gskt.	FP-3914029		
QTY	AIR INTAKE	PART NO.	SIZE	DESCRIPTION
1	Air Intake Gasket	FP-3969988		
CAMSHAFT GROUP				
QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft	FP-3929042		CPL Numbers 596-600, 691, 697-8, 713-4, 716, 728-9, 742, 761, 766, 791-2, 802, 804, 834, 845, 912, 938, 940, 947, 949, 953, 961-2, 970, 983, 994, 998-9, 1160, 1163, 1165, 1168, 1174, 1189, 1207, 1245-7, 1266, 1279, 1288-9, 1313, 1322, 1351, 1403, 1408, 1433, 1440, 1554, 1570, 1578-9, 1581, 1601, 1605, 1613, 1694.
1	Camshaft	FP-3929041		CPL Numbers 987, 1261, 1422 1527 & 1582
12	Lifter	FP-3931623		
FUEL SYSTEM & PARTS				
QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
4	Grommet	FP-3900267		Fuel Drain Tube
6	Fuel Injector Seal Ring	FP-3909356		
6	Fuel Injector Sleeve	FP-3919358		For 9mm head
6	Fuel Injector Seal	FP-3930324		
6	Copper Washer	FP-3906659		For 7mm head; 1.50MM Thick
6	Fuel Line Connector	FP-3903380		Banjo connector; 6mm head; Banjo connector
QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Fuel Transfer Pump	FP-4983584 *		Diaphragm style
1	Fuel Transfer Pump	FP-3970880 +		Diaphragm style; When depleted use FP-4983584
1	Fuel Transfer Pump	FP-4944713		144.7 - 201.2 LPH; 1/4 x 18 NPTF Fuel Inlet
1	Cover Plate Gasket	FP-3931348		Fuel Transfer Pump Mounting
1	Cover Plate Gasket	FP-3939258		Fuel Transfer Pump Mounting
1	Solenoid Repair Kit	FP-3903575		Fuel Transfer Pump
1	Solenoid Repair Kit	FP-3903576		Fuel Transfer Pump; 24V
6	Washer	FP-3900808		Sealing
2	Washer	FP-3918188		Sealing; Fuel Supply Tube
1	Fuel Filter Gasket	FP-3906694		Large
1	Fuel Filter Gasket	FP-3906695		Small
QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Mounting Gasket	FP-3901356		

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**45** Combine **6BT5.9 (6T-590) (Turbo)**, **6BTA5.9 (6TA-590) (Turbo-Aftercooled Diesel)**. Cotton (cont.) Picker. Loader. Power Unit. Wheel Tractor **6BT5.9 (6T-590) Eng. (Turbo-Diesel)**. Windrower. Crawler Tractor **6BT5.9 (6T-590) Eng. (Turbo-Diesel)**. Wheel Loader. Excavator. 5.9L 359 (5882cc) OHV Turbo-Diesel L6 (12 Valve), 102mm Bore (Cummins Eng.)

**COOLING SYSTEM**

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump - Heavy Duty	FP-3286277		
1	Ball Brg.	FP-3910739		Fan Drive
1	Water Pump Seal Ring	FP-3906698		Water pump mounting; Rectangular Ring
1	O-Ring	FP-3883284		Air Intake Connection; For 3.00" Dia. Turbocharger elbow
1	O-Ring	FP-3923331		Thermostat Housing Cover
1	Shaft & Bearing Assembly	FP-3923517		
1	V Belt	FP-3911587		53.5 X 1.125"; Ribbed 8
1	V Belt	FP-3911557		56 X 1.125"; Ribbed 8
1	V Belt	FP-3911588		56.5 X 1.125"; Ribbed 8
1	V Belt	FP-3911568		57 X 1.125"; Ribbed 8
1	V Belt	FP-3911558		59 X 1.125"; Ribbed 8
1	V Belt	FP-3911563		60.5 X 1.125"; Ribbed 8
1	V Belt	FP-3911572		61.5 X 1.125"; Ribbed 8
1	V Belt	FP-3911559		62 X 1.125"; Ribbed 8
1	V Belt	FP-3034946		62.5 X 1.125"; Ribbed 8
1	V Belt	FP-3911575		63 X 1.125"; Ribbed 8
1	V Belt	FP-3911582		70 X 1.125"; Ribbed 8

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	FP-3917324		180 Deg. F
1	Thermostat Kit	FP-3802273		180 Deg. F; Includes Thermostat, Template and O-ring

**ENGINE BLOCK & PARTS**

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-3959052		
1	Washer	FP-3902425		Sealing; Oil Pan Plug
1	Washer	FP-3920773		Sealing; Oil Pan Plug; 18.40MM I.D. x 1.5MM Thick
1	O-Ring	FP-3913994		
1	Gear Cover Gasket	FP-3918673		
1	Rect. or Square Seal	FP-3903475		Tach Drive Cover

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	FP-3802376		Incl. seals
1	In-Frame Gasket Set	FP-3802364S		.25MM Oversize Thickness Head Gasket
1	In-Frame Gasket Set	FP-3802245S		.50MM Oversize Thickness Head Gasket
1	In-Frame Gasket Set	FP-3802363S		Standard Thickness Head Gasket

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-3940059	STD	From 1997-Up (Storm Blocks)
1	Cam Brg.	FP-3901306	STD	To 1996

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler	FP-3957544		7 Plate
1	Oil Press. Reg. Low Pressure	FP-3918428		Oil Press. Regulator Plunger
1	O-Ring	FP-3909397		Oil Cooler
1	Oil Cooler Core Inner Gasket	FP-3926760		Core
1	Oil Cooler Core Outer Gasket	FP-3929792		

QTY	FREEZE PLUGS	PART NO.	SIZE	DESCRIPTION
1	Expansion Plug	FP-3900687		
4	Expansion Plug	FP-3007635		1.00" Dia.

**CRANKSHAFT/OIL PUMP**

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	FP-3929037		With Gear
1	Crank Gear	FP-3929027		Front

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-3937111		Front
1	Oil Seal Kit	FP-3802820		Front; Incl. wear sleeve
1	Gear Housing Gasket	FP-3938156		Front
1	Redi-Sleeve	FP-3906080		Front
1	O-Ring	FP-3913994		Front
1	Rect. or Square Seal	FP-3915772		Front

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-3909410		Rear; Single Lip; Dry Clutch
1	Oil Seal Kit	FP-3926126		Single Lip; Dry Clutch; Incl. Wear Sleeve
1	Redi-Sleeve	FP-3906081		Rear
1	Rear Cover Gasket	FP-3928493		
1	Rect. or Square Seal	FP-3912473		Rear; Rectangular

(continued on next page)

**Combine 6BT5.9 (6T-590) (Turbo), 6BTA5.9 (6TA-590) (Turbo-Aftercooled Diesel). Cotton 45**  
*Picker. Loader. Power Unit. Wheel Tractor 6BT5.9 (6T-590) Eng. (Turbo-Diesel). Windrower. (cont.)*  
**Crawler Tractor 6BT5.9 (6T-590) Eng. (Turbo-Diesel). Wheel Loader. Excavator.**  
 5.9L 359 (5882cc) OHV Turbo-Diesel L6 (12 Valve), 102mm Bore (Cummins Eng.)

**CRANKSHAFT/OIL PUMP (cont.)**

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-3802070	STD	
1	Main Set	FP-3802071	.25MM	
1	Main Set	FP-3802072	.50MM	
1	Main Set	FP-3802073	.75MM	
1	Main Set	FP-3802074	1.00MM	
1	Main Set	FP-3357480	STD	Brazil engs.

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Oil Pump	FP-4939587		
1	Pick-Up Tube Gasket	FP-3938157		
1	Pick-Up Tube Gasket	FP-3914383 +		When depleted use FP-3938157

**CYLINDER COMPONENTS**

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Rings	FP-3904166		To return block to Standard

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	FP-3907156	STD	6BTA5.9; Early; 16.5:1 C.R.
6	Piston Body w/o Pin	FP-3907157	.50MM	6BTA5.9; Early; 16.5:1 C.R.
6	Piston Body w/o Pin	FP-3907158	1.00MM	6BTA5.9; Early; 16.5:1 C.R.
6	Piston Body w/o Pin	FP-3907163	STD	6BT5.9; Early; 17.5:1 C.R.
6	Piston Body w/o Pin	FP-3908815	.50MM	6BT5.9; Early; 17.5:1 C.R.
6	Piston Body w/o Pin	FP-3908816	1.00MM	6BT5.9; Early; 17.5:1 C.R.
6	Piston Kit w/Pin & Retainers	FP-3907156WP	STD	6BTA5.9; Early; 16.5:1 C.R.
6	Piston Kit w/Pin & Retainers	FP-3907157WP	.50MM	6BTA5.9; Early; 16.5:1 C.R.
6	Piston Kit w/Pin & Retainers	FP-3907158WP	1.00MM	6BTA5.9; Early; 16.5:1 C.R.
6	Piston Kit w/Pin & Retainers	FP-3907163WP	STD	6BT5.9; Early; 17.5:1 C.R.
6	Piston Kit w/Pin & Retainers	FP-3908815WP	.50MM	6BT5.9; Early; 17.5:1 C.R.
6	Piston Kit w/Pin & Retainers	FP-3908816WP	1.00MM	6BT5.9; Early; 17.5:1 C.R.
6	Piston w/Retainer & Rings	FP-3802100	STD	6BTA5.9; Early; 16.5:1 C.R.
6	Piston w/Retainer & Rings	FP-3802102	.50MM	6BTA5.9; Early; 16.5:1 C.R.
6	Piston w/Retainer & Rings	FP-3802104	1.00MM	6BTA5.9; Early; 16.5:1 C.R.
6	Piston w/Retainer & Rings	FP-3802160	STD	6BT5.9; Early; 17.5:1 C.R.
6	Piston w/Retainer & Rings	FP-3802132	.50MM	6BT5.9; Early; 17.5:1 C.R.
6	Piston w/Retainer & Rings	FP-3802134	1.00MM	6BT5.9; Early; 17.5:1 C.R.
6	Piston w/Pin, Retainer, Rings	FP-3802711	STD	6BTA5.9; Early; 16.5:1 C.R.
6	Piston w/Pin, Retainer, Rings	FP-PK7157	.50MM	6BTA5.9; Early; 16.5:1 C.R.
6	Piston w/Pin, Retainer, Rings	FP-PK7158	1.00MM	6BTA5.9; Early; 16.5:1 C.R.
6	Piston w/Pin, Retainer, Rings	FP-3802712	STD	6BT5.9; Early; 17.5:1 C.R.
6	Piston w/Pin, Retainer, Rings	FP-PK8815	.50MM	6BT5.9; Early; 17.5:1 C.R.
6	Piston w/Pin, Retainer, Rings	FP-PK8816	1.00MM	6BT5.9; Early; 17.5:1 C.R.
6	Pin	FP-3934048		
6	Piston Pin Retainer	FP-3920691		
6	Pin Bushing	FP-4891178		For fracture split rods
6	Pin Bushing	FP-3901085		For machine split rods

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Con. Rod Bolt	FP-4891179 *		For fracture split rods
12	Con. Rod Bolt	FP-3900919		For machine split rods; MJ11 - 1.25 X 59mm
12	Rod Pair	FP-3967060	STD	For fracture split rods
12	Rod Pair	FP-3967061	.25MM	For fracture split rods
12	Rod Pair	FP-3967062	.50MM	For fracture split rods
12	Rod Pair	FP-3967063	.75MM	For fracture split rods
12	Rod Pair	FP-3967064	1.00MM	For fracture split rods
12	Rod Bearing Half Upper/Lower	FP-3939859	STD	For machine split rods
12	Rod Bearing Half Upper/Lower	FP-3901171	.25MM	For machine split rods
12	Rod Bearing Half Upper/Lower	FP-3901172	.50MM	For machine split rods
12	Rod Bearing Half Upper/Lower	FP-3901173	.75MM	For machine split rods
12	Rod Bearing Half Upper/Lower	FP-3901174	1.00MM	For machine split rods

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-3802230	STD	1-3.00MM, 1-2.36MM, 1-4.00MM (1 cyl. set)
6	Ring Set Single Cylinder	FP-3802232	.50MM	1-3.00MM, 1-2.36MM, 1-4.00MM (1 cyl. set)
6	Ring Set Single Cylinder	FP-3802234	1.00MM	1-3.00MM, 1-2.36MM, 1-4.00MM (1 cyl. set)

**KITS**

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-6B59PREML		Late; Premium; With Upper Gasket Set & Pan Gasket

(continued on next page)

**45** Combine **6BT5.9 (6T-590) (Turbo)**, **6BTA5.9 (6TA-590) (Turbo-Aftercooled Diesel)**. Cotton (cont.) Picker. Loader. Power Unit. Wheel Tractor **6BT5.9 (6T-590) Eng. (Turbo-Diesel)**. Windrower. Crawler Tractor **6BT5.9 (6T-590) Eng. (Turbo-Diesel)**. Wheel Loader. Excavator. 5.9L 359 (5882cc) OHV Turbo-Diesel L6 (12 Valve), 102mm Bore (Cummins Eng.)

**KITS (cont.)**

QTY	OVERHAUL KIT (cont.)	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-6B59PREM		Premium; With Upper Gasket Set & Pan Gasket
1	Complete Overhaul Kit	FP6B5.9PREM-OHL		Late; 1991 to Present; Premium; With Front & Rear Seals and Upper & Lower Gasket Sets
1	Complete Overhaul Kit	FP-6B59PREMOH		Pre 1991; Premium; With Front & Rear Seals and Upper & Lower Gasket Sets
1	Complete Overhaul Kit	FP-OH6B59T		6BT Engs.
1	Complete Overhaul Kit	FP-OH6B59TA		6BTA Engs.

**46** Wheel Skidder **ISB 5.9 Engines**  
5.9L 359 (5882cc) OHV Turbo-Diesel L6 (24 Valve), 102mm Bore (Cummins Eng.)

**CYL. HEAD & PARTS**

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-3935878		
1	Head Gasket	FP-3977063		.061" Thickness
1	Head Set	FP-4090035		.061" Thickness Head Gasket
QTY	HEAD BOLTS	PART NO.	SIZE	DESCRIPTION
26	Head Bolt	FP-3927063		M12 x 1.75 x 131MM Length
QTY	VALVE	PART NO.	SIZE	DESCRIPTION
12	Intake	FP-3940735		Chrome plated stem; 1.2990" Head Dia., .2756" Stem Dia., 4.9070" O.A.L.
12	Exhaust	FP-3940734		Chrome plated stem; 1.2990" Head Dia., .2756" Stem Dia., 4.8930" O.A.L.
12	Exhaust Valve Kit	FP-3802967		Incl. valve & keepers; 1.2990" Head Dia., .2756" Stem Dia., 4.8930" O.A.L.
12	Intake Valve Kit	FP-3802924		Incl. valve & keepers; 1.2990" Head Dia., .2756" Stem Dia., 4.9070" O.A.L.
48	Keeper	FP-3940123		Exh. & Int.
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
24	Spring	FP-4936080		Exh. & Int.; 1.8800" Free Height
24	Spring Cap	FP-3943198		Exh. & Int.
QTY	PUSH RODS	PART NO.	SIZE	DESCRIPTION
1	Push Rod Cover Gasket	FP-3284623		
QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	FP-3955394		Exh.; Green; For Engs. using HPCR System, Eng. S/N 46239409 and above; Green Viton Center; Top Hat style
12	Valve Stem Seal	FP-3955393		Int.; Yellow; For Engs. using HPCR System, Eng. S/N 46239409 and above; Yellow Viton Center; Top Hat style

**INT & EXH MANIFOLDS**

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
6	Exhaust Manifold Gasket	FP-3946275		

**CAMSHAFT GROUP**

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
12	Lifter	FP-3942565		

**FUEL SYSTEM & PARTS**

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
6	Copper Washer	FP-3906659		Inj. seal for 7mm injector tip; 1.50MM Thick
1	O-Ring	FP-3910503		Injector Pump mounting
QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
4	Turbo Stud	FP-3818823		Turbo mounting; Turbocharger mounting studs; M10 x 1.50 x 42MM
1	Turbocharger Mounting Gasket	FP-3901356		

**COOLING SYSTEM**

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump - Heavy Duty	FP-3286278		
1	Water Pump Mech. Shaft Seal	FP-3029099		Impeller
1	Water Pump Seal Ring	FP-3906698		Water pump mounting; Rectangular Ring

**ENGINE BLOCK & PARTS**

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-3959052		

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*Wheel Skidder ISB 5.9 Engines 46*

5.9L 359 (5882cc) OHV Turbo-Diesel L6 (24 Valve), 102mm Bore (Cummins Eng.) (cont.)

<b>ENGINE BLOCK &amp; PARTS (cont.)</b>				
<b>QTY</b>	<b>GASKETS (cont.)</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Hydraulic Pump Gasket	FP-3008400		
<b>QTY</b>	<b>GASKET SETS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Gasket Conversion Set	FP-3800487 *		
<b>QTY</b>	<b>CAM BEARINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Cam Brg.	FP-3940059	STD	(Storm Blocks)
1	Cam Brg.	FP-3904369	STD	Position 1; O/S
2	Cam Brg.	FP-3903242	STD	Position 2-5; O/S
<b>QTY</b>	<b>OIL COOLERS &amp; FILTERS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Oil Cooler	FP-3957544		7 Plate
1	Oil Cooler Core Inner Gasket	FP-3926760		
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
14	Expansion Plug	FP-3007635		1.00" Dia.
<b>CRANKSHAFT/OIL PUMP</b>				
<b>QTY</b>	<b>CRANKSHAFT</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Crank Gear	FP-3929027		
<b>QTY</b>	<b>SEALS - FRONT CRANK</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Oil Seal	FP-3937111		Front
1	Oil Seal Kit	FP-3802820		Front; Incl. wear sleeve
1	Gear Housing Gasket	FP-3938156		Cover
1	Redi-Sleeve	FP-3906080		Front
<b>QTY</b>	<b>SEALS - REAR CRANK</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Oil Seal	FP-3909411		Rear; Double Lip; Wet Clutch
1	Oil Seal	FP-3909410		Rear; Single Lip; Dry Clutch
1	Oil Seal Kit	FP-3926126		Single Lip; Dry Clutch; Incl. Wear Sleeve
1	Redi-Sleeve	FP-3906081		Rear
1	Rear Cover Gasket	FP-3928493		
1	Rect. or Square Seal	FP-3912473		Rear; Rectangular
<b>QTY</b>	<b>MAIN BEARINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Main Set	FP-3802070	STD	
1	Main Set	FP-3802071	.25MM	
1	Main Set	FP-3802072	.50MM	
1	Main Set	FP-3802073	.75MM	
1	Main Set	FP-3802074	1.00MM	
<b>QTY</b>	<b>OIL PUMP</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Oil Pump	FP-4939587		
1	Rect. or Square Seal	FP-3903475		Tach. drive cover
1	Pick-Up Tube Gasket	FP-3938157		Oil pick-up tube
<b>CYLINDER COMPONENTS</b>				
<b>QTY</b>	<b>LINERS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
6	Liner w/o Sealing Rings	FP-3904166		To return block to Standard
<b>QTY</b>	<b>PISTONS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
6	Piston w/Retainer & Rings	FP-3800838	STD	
6	Piston w/Retainer & Rings	FP-3800841	.50MM	
6	Piston w/Retainer & Rings	FP-3800842	1.00MM	
6	Piston w/Pin, Retainer, Rings	FP-PK0838	STD	
6	Piston w/Pin, Retainer, Rings	FP-PK0841	.50MM	
6	Piston w/Pin, Retainer, Rings	FP-PK0842	1.00MM	
6	Pin	FP-3934047		
12	Piston Pin Retainer	FP-3920691		
6	Pin Bushing	FP-4891178		
<b>QTY</b>	<b>CONNECTING RODS &amp; BRGS.</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
12	Con. Rod Bolt	FP-4891179 *		For fracture split rods
12	Con. Rod Bolt	FP-3900919		For machine split rods; MJ11 - 1.25 X 59mm
6	Rod Pair	FP-3967060	STD	For fracture split rods
6	Rod Pair	FP-3967061	.25MM	For fracture split rods
6	Rod Pair	FP-3967062	.50MM	For fracture split rods
6	Rod Pair	FP-3967063	.75MM	For fracture split rods
6	Rod Pair	FP-3967064	1.00MM	For fracture split rods
12	Rod Bearing Half Upper/Lower	FP-3939859	STD	For machine split rods
12	Rod Bearing Half Upper/Lower	FP-3901171	.25MM	For machine split rods
12	Rod Bearing Half Upper/Lower	FP-3901172	.50MM	For machine split rods
12	Rod Bearing Half Upper/Lower	FP-3901173	.75MM	For machine split rods

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<b>46 Wheel Skidder ISB 5.9 Engines</b> (cont.) 5.9L 359 (5882cc) OHV Turbo-Diesel L6 (24 Valve), 102mm Bore (Cummins Eng.)				
<b>CYLINDER COMPONENTS (cont.)</b>				
<b>CONNECTING RODS &amp; BRGS. (cont.)</b>				
QTY		PART NO.	SIZE	DESCRIPTION
12	Rod Bearing Half Upper/Lower	FP-3901174	1.00MM	For machine split rods
<b>PISTON RINGS</b>				
6	Ring Set Single Cylinder	FP-3804990	STD	
6	Ring Set Single Cylinder	FP-3806201	.50MM	
6	Ring Set Single Cylinder	FP-3806203	1.00MM	
<b>KITS</b>				
QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-IFKISB624V		For fracture split rods; From 1998.5 to 2006
<b>47 Grader QSB 5.9 Engines. Compactor QSB 5.9 Engines.</b> 5.9L 359 (5882cc) OHV Turbo-Diesel L6 (24 Valve), 102mm Bore (Cummins Eng.)				
<b>CYL. HEAD &amp; PARTS</b>				
QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Gasket	FP-3977063		.061" Thickness
1	Head Set	FP-4089819		
QTY	VALVE	PART NO.	SIZE	DESCRIPTION
12	Intake	FP-3940735		Chrome plated stem; 1.2990" Head Dia., .2756" Stem Dia., 4.9070" O.A.L.
12	Exhaust	FP-3940734		Chrome plated stem; 1.2990" Head Dia., .2756" Stem Dia., 4.8930" O.A.L.
12	Exhaust Valve Kit	FP-3802967		Incl. valve & keepers; 1.2990" Head Dia., .2756" Stem Dia., 4.8930" O.A.L.
12	Exhaust Valve Kit	FP-4089672 *	STD	Incl. valve, valve stem seal & keepers
12	Exhaust Valve Kit	FP-4955210 *	STD	Incl. valve, valve stem seal & keepers
12	Intake Valve Kit	FP-3802924		Incl. valve & keepers; 1.2990" Head Dia., .2756" Stem Dia., 4.9070" O.A.L.
48	Keeper	FP-3940123		Exh. & Int.
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
24	Spring	FP-4936080		Exh. & Int.; 1.8800" Free Height
24	Spring Cap	FP-3943198		Exh. & Int.
<b>ENGINE BLOCK &amp; PARTS</b>				
QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-3959052		
1	Oil Pan Gasket	FP-3958165		w/Stamped steel pan, drain on bottom
QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	FP-4089173		
QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-3940059	STD	(Storm Blocks)
1	Cam Brg.	FP-3904369	STD	Position 1; O/S
2	Cam Brg.	FP-3903242	STD	Position 2-5; O/S
<b>CRANKSHAFT/OIL PUMP</b>				
QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-3802070	STD	
1	Main Set	FP-3802071	.25MM	
1	Main Set	FP-3802072	.50MM	
1	Main Set	FP-3802073	.75MM	
1	Main Set	FP-3802074	1.00MM	
<b>CYLINDER COMPONENTS</b>				
QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Rings	FP-3904166		To return block to Standard
QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-4891179 *		For fracture split rods
6	Rod Pair	FP-3967060	STD	For fracture split rods
6	Rod Pair	FP-3967061	.25MM	For fracture split rods
6	Rod Pair	FP-3967062	.50MM	For fracture split rods
6	Rod Pair	FP-3967063	.75MM	For fracture split rods
6	Rod Pair	FP-3967064	1.00MM	For fracture split rods

*Wheel Tractor A377B, A377S, 377, 377B Engs. (Gas or LPG) 48*  
6.2L 377 L6 (Early), 4" Bore

<b>CYL. HEAD &amp; PARTS</b>				
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
12	Guide	FP-VG544		377 Engs.; Model 930; .4050" ID, 3.5800" O.A.L.
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-A21076		
QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	ST-2001		Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal	FP-A58628		377B Eng. only; O-Ring style
12	Valve Stem Seal Bulk	ST-2001BC		Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE

<b>ENGINE BLOCK &amp; PARTS</b>				
QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-A23544	STD	W/2.250" dia. brgs.

<b>CRANKSHAFT/OIL PUMP</b>				
QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Redi-Sleeve	FP-99260		
1	Oil Seal	FP-A157044		
QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-A62050		
1	Redi-Sleeve	FP-99475		
QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-7040M	Std-10-20	Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Main Set	FP-7040M10	Std-10-20	Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Main Set	FP-7040M20	Std-10-20	Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Thrust Washer Set	FP-A62572S	STD	Position 5; .156" Thick
2	Thrust Washer Pc.	FP-A62572	STD	Position 5; 2 Required; .156" Thick

<b>CYLINDER COMPONENTS</b>				
QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin Bushing	FP-A27846		1.500" Pin Dia.
QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	FP-A43173	STD	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43174	2	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43175	10	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43176	20	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43177	30	2.7490" Crank Pin Dia.

*Wheel Tractor 377, 377A Engs. (Gas or LPG). Crawler Tractor 377, 377A Engs. (Gas or LPG) 49*  
6.2L 377 L6 (Late), 4" Bore

<b>CYL. HEAD &amp; PARTS</b>				
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
12	Guide	FP-VG544		.4050" ID, 3.5800" O.A.L.
QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	ST-2001		Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal Bulk	ST-2001BC		Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE

<b>ENGINE BLOCK &amp; PARTS</b>				
QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-A23544	STD	W/2.250" dia. brgs.

<b>CRANKSHAFT/OIL PUMP</b>				
QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Redi-Sleeve	FP-99260		
1	Oil Seal	FP-A157044		
QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-A62050		
1	Redi-Sleeve	FP-99475		
QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-7040M	Std-10-20	Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Main Set	FP-7040M10	Std-10-20	Optional main set w/o thrust washer; 2.999" Crank Dia.

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<b>49</b> Wheel Tractor 377, 377A Engs. (Gas or LPG). Crawler Tractor 377, 377A Engs. (Gas or (cont.) LPG). 6.2L 377 L6 (Late), 4" Bore				
<b>CRANKSHAFT/OIL PUMP (cont.)</b>				
<b>QTY</b>	<b>MAIN BEARINGS (cont.)</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Main Set	FP-7040M20	Std-10-20	Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Main Set	FP-5047M	Std-10-20	W/.186" thick thrust washer
1	Thrust Washer Set	FP-A62573S	STD	Position 5; .186" Thick
2	Thrust Washer Pc.	FP-A62573	STD	Position 5; 2 Required; .186" Thick
<b>CYLINDER COMPONENTS</b>				
<b>QTY</b>	<b>PISTONS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
6	Pin Bushing	FP-A27846		1.500" Pin Dia.
<b>QTY</b>	<b>CONNECTING RODS &amp; BRGS.</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
6	Rod Pair	FP-A43173	STD	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43174	2	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43175	10	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43176	20	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43177	30	2.7490" Crank Pin Dia.
<b>50</b> Wheel Tractor A377D, 377D Engs. (Diesel). Crawler Tractor A377D, 377D Engs. (Diesel). 6.2L 377 Diesel L6, 4" Bore				
<b>CYL. HEAD &amp; PARTS</b>				
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
6	Guide	FP-A26294		Int.; .4050" ID, 4.3800" O.A.L.
<b>QTY</b>	<b>VALVE SEAL</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
12	Valve Stem Seal	FP-A58628		O-Ring style
<b>ENGINE BLOCK &amp; PARTS</b>				
<b>QTY</b>	<b>CAM BEARINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Cam Set	FP-A23544	STD	W/2.250" dia. brgs.
<b>CRANKSHAFT/OIL PUMP</b>				
<b>QTY</b>	<b>SEALS - FRONT CRANK</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Redi-Sleeve	FP-99260		
1	Oil Seal	FP-A157044		
<b>QTY</b>	<b>SEALS - REAR CRANK</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Oil Seal	FP-A62050		
1	Redi-Sleeve	FP-99475		
<b>QTY</b>	<b>MAIN BEARINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Main Set	FP-7040M	Std-10-20	Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Main Set	FP-7040M10	Std-10-20	Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Main Set	FP-7040M20	Std-10-20	Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Thrust Washer Set	FP-A62572S	STD	Position 5; .156" Thick
2	Thrust Washer Pc.	FP-A62572	STD	Position 5; 2 Required; .156" Thick
<b>CYLINDER COMPONENTS</b>				
<b>QTY</b>	<b>PISTONS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
6	Pin Bushing	FP-A27846		1.500" Pin Dia.
<b>QTY</b>	<b>CONNECTING RODS &amp; BRGS.</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
6	Rod Pair	FP-A43173	STD	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43174	2	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43175	10	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43176	20	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43177	30	2.7490" Crank Pin Dia.
<b>51</b> Wheel Tractor A401B, A401BD, A401D, 401B, 401BD Engs. (Diesel). Crawler Tractor A401B, A401BD, A401D, 401B, 401BD Engs. (Diesel). Wheel Loader A401B, A401BD, A401D, 401B, 401BD Engs. (Diesel). 6.6L 401 Diesel L6, 4.125" Bore				
<b>CYL. HEAD &amp; PARTS</b>				
<b>QTY</b>	<b>VALVE</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
6	Intake	FP-A11801		A401D Engs.; Models W10, 930 & 940
6	Exhaust	FP-A11802		A401D Engs.; Models W10, 930 & 940
24	Keeper	FP-A27872		A401BD Engs. & A401D Engs.; Model 930

(continued on next page)



**Wheel Tractor A401B, A401BD, A401D, 401B, 401BD Eng. (Diesel). Crawler Tractor 51  
A401B, A401BD, A401D, 401B, 401BD Eng. (Diesel). Wheel Loader A401B, A401BD,  
A401D, 401B, 401BD Eng. (Diesel).  
6.6L 401 Diesel L6, 4.125" Bore**

**CYL. HEAD & PARTS (cont.)**

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
6	Guide	FP-A11803		Exh.; A401D Eng.; Model 930; .4050" ID, 3.2200" O.A.L.
8	Guide	FP-A11803		Exh. & Int.; A401BD Eng.; .4050" ID, 3.2200" O.A.L.
6	Guide	FP-A26294		Int.; A401D Eng.; Model 930; .4050" ID, 4.3800" O.A.L.
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-A66444		A401BD Eng.
12	Spring	FP-A21076		A401D Eng.; Model 930
QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	FP-A58628		A401BD Eng.; O-Ring style

**ENGINE BLOCK & PARTS**

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	FP-PGE401LC		A401BD Eng.
1	Complete Overhaul Gasket Set	PGE401LC +		A401BD Eng.; When depleted use FP-PGE401LC
1	Complete Overhaul Gasket Set	FP-PGE401DM		A401D Eng.; Exc. 940 Wheel Tractor & W10 Loader Tractor
QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-A23544	STD	W/2.250" dia. brgs.

**CRANKSHAFT/OIL PUMP**

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Redi-Sleeve	FP-99260		
1	Oil Seal	FP-A157044		
QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-A62050		
1	Redi-Sleeve	FP-99475		
QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-7040M	Std-10-20	Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Main Set	FP-7040M10	Std-10-20	Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Main Set	FP-7040M20	Std-10-20	Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Main Set	FP-5047M	Std-10-20	W/.186" thick thrust washer
1	Thrust Washer Set	FP-A62572S	STD	Position 5; .156" Thick
1	Thrust Washer Set	FP-A62573S	STD	Position 5; .186" Thick
2	Thrust Washer Pc.	FP-A62572	STD	Position 5; 2 Required; .156" Thick
2	Thrust Washer Pc.	FP-A62573	STD	Position 5; 2 Required; .186" Thick

**CYLINDER COMPONENTS**

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/Sealing Rings	FP-A182186WS	STD	A401BD Eng.
6	Liner w/Sealing Rings	FP-A23658WS	STD	A401D Eng.
6	Cylinder Kit Complete	FP-A1481351	STD	A401BD Eng.
6	Cylinder Kit Complete	FP-A418211	STD	A401D Eng.; Contains cast-iron piston w/1.359" dia. pin
6	Cylinder Kit Complete	FP-A404791	STD	A401D Eng.; Contains Alum. piston w/1.500" dia. pin
QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	FP-2489N	STD	OVERBORE To 4.250". A401D engines w/1.3586" Dia. pin.; 3-3/32, 1-1/4 Ring Groove; Flat Head
6	Piston Kit w/Pin & Retainers	FP-A65127WP	STD	A401BD Eng.; Cast; 2-3/32, 1-1/4 Ring Groove; Dish Head .890" deep x 2.310" dia. w/2 valve reliefs
6	Piston Kit w/Pin & Retainers	FP-A11101WP	STD	A401D Eng.; w/1.3586" pin dia.; Cast; 3-3/32, 1-1/4 Ring Groove; Flat Head. Cast Iron
6	Piston Kit w/Pin & Retainers	FP-A24488WP	STD	A401D Eng.; w/1.500" pin dia.; Cast; 3-3/32, 1-1/4 Ring Groove; Flat Head. Alum. w/Ni-Resist Insert
6	Pin Bushing	FP-A27846		W/1.3596" pin dia.; 1.500" Pin Dia.
QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	FP-A43173	STD	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43174	2	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43175	10	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43176	20	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43177	30	2.7490" Crank Pin Dia.
QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-A41967	STD	2-3/32, 1-1/4
3	Premium Set	FP-A41967S	STD	2-3/32, 1-1/4; 2 Cyl Set
1	Premium Set	FP-5029KX	Std Only	3-3/32, 1-1/4
6	Premium Single Cylinder Set	W-10138KX	Std Only	2-3/32, 1-1/4 (2 cyl. set)

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**51** Wheel Tractor A401B, A401BD, A401D, 401B, 401BD Engs. (Diesel). Crawler Tractor (cont.) A401B, A401BD, A401D, 401B, 401BD Engs. (Diesel). Wheel Loader A401B, A401BD, A401D, 401B, 401BD Engs. (Diesel).  
6.6L 401 Diesel L6, 4.125" Bore

**KITS**

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-IFK401L		A-401BD Engs.; w/thrust washer set
1	In-Frame Overhaul Kit	FP-IFK401E		A-401D Engs.; w/thrust washer set .156" & .186" thick; Exc. Wheel Tractor Model 940 & Loader Tractor Model W10

**52** Wheel Tractor 401BDT, 401DT Engs. (Turbo-Diesel). Crawler Tractor 401BDT, 401DT Engs. (Turbo-Diesel). Wheel Loader 401BDT, 401DT Engs. (Turbo-Diesel).  
6.6L 401 Turbo-Diesel L6, 4.125" Bore

**CYL. HEAD & PARTS**

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
24	Keeper	FP-A27872		
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
12	Guide	FP-A11803		.4050" ID, 3.2200" O.A.L.
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-A66444		
QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	FP-A58628		O-Ring style

**ENGINE BLOCK & PARTS**

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	FP-PGE401LC		
1	Complete Overhaul Gasket Set	PGE401LC +		When depleted use FP-PGE401LC
QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-A23544	STD	W/2.250" dia. brgs.

**CRANKSHAFT/OIL PUMP**

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Redi-Sleeve	FP-99260		
1	Oil Seal	FP-A157044		
QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-A62050		
1	Redi-Sleeve	FP-99475		
QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-7040M	Std-10-20	Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Main Set	FP-7040M10	Std-10-20	Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Main Set	FP-7040M20	Std-10-20	Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Main Set	FP-5047M	Std-10-20	W/.186" thick thrust washer
1	Thrust Washer Set	FP-A62572S	STD	Position 5; .156" Thick
1	Thrust Washer Set	FP-A62573S	STD	Position 5; .186" Thick
2	Thrust Washer Pc.	FP-A62572	STD	Position 5; 2 Required; .156" Thick
2	Thrust Washer Pc.	FP-A62573	STD	Position 5; 2 Required; .186" Thick

**CYLINDER COMPONENTS**

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/Sealing Rings	FP-A182186WS	STD	
6	Cylinder Kit Complete	FP-A1481351	STD	
QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Kit w/Pin & Retainers	FP-A65127WP	STD	Cast; 2-3/32, 1-1/4 Ring Groove; Dish Head .890" deep x 2.310" dia. w/2 valve reliefs
6	Pin Bushing	FP-A27846		W/1.3596" pin dia.; 1.500" Pin Dia.
QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	FP-A43173	STD	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43174	2	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43175	10	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43176	20	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43177	30	2.7490" Crank Pin Dia.
QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-A41967	STD	2-3/32, 1-1/4
3	Premium Set	FP-A41967S	STD	2-3/32, 1-1/4; 2 Cyl Set
6	Premium Single Cylinder Set	W-10138KX	Std Only	2-3/32, 1-1/4 (2 cyl. set)

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**Wheel Tractor 401BDT, 401DT Engs. (Turbo-Diesel). Crawler Tractor 401BDT, 401DT 52**  
**Engs. (Turbo-Diesel). Wheel Loader 401BDT, 401DT Engs. (Turbo-Diesel). (cont.)**  
 6.6L 401 Turbo-Diesel L6, 4.125" Bore

**KITS**

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-IFK401L		W/Thrust washer set

**Grader QSB 6.7 Engines. Wheel Tractor QSB 6.7 Engines. 53**  
 6.7L 408 (6691cc) OHV Turbo-Diesel L6 (24 Valve), 107mm Bore (Cummins Eng.)

**CYL. HEAD & PARTS**

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Set	FP-4955354 *		Upper Set
QTY	HEAD BOLTS	PART NO.	SIZE	DESCRIPTION
26	Head Bolt	FP-3927063		M12 x 1.75 x 131MM Length
QTY	VALVE	PART NO.	SIZE	DESCRIPTION
12	Intake	FP-3940735		Chrome plated stem; 1.2990" Head Dia., .2756" Stem Dia., 4.9070" O.A.L.
12	Intake Valve Kit	FP-3802924		Incl. valve & keepers; 1.2990" Head Dia., .2756" Stem Dia., 4.9070" O.A.L.
48	Keeper	FP-3940123		Exh. & Int.
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
24	Spring	FP-4936080		Exh. & Int.; 1.8800" Free Height
24	Spring Cap	FP-3943198		Exh. & Int.
QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	FP-3955394		Exh.; Green Viton Center; Top Hat style
12	Valve Stem Seal	FP-3955393		Int.; Yellow Viton Center; Top Hat style
QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
24	Adjusting Screw Nut	FP-3927692		Rocker lever nut; 3/8" - 24 UNF

**CAMSHAFT GROUP**

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
24	Lifter	FP-3947759		Exh. & Int.

**FUEL SYSTEM & PARTS**

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Cover Plate Gasket	FP-3939258		Fuel Transfer Pump Mounting
QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-3678786		Turbocharger flexible hose
1	O-Ring	FP-3922794		Turbocharger flexible hose

**COOLING SYSTEM**

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Seal Ring	FP-3906698		Water pump mounting; Rectangular Ring
1	Water Pump Seal Ring	FP-3906697		Water Inlet; Rectangular Ring
1	Ball Brg.	FP-3910739		Fan Pulley

**ENGINE BLOCK & PARTS**

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-3958165		w/Stamped steel pan, drain on bottom
QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	FP-4955355 *		Lower Set
QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-3940059	STD	
QTY	FREEZE PLUGS	PART NO.	SIZE	DESCRIPTION
3	Expansion Plug	FP-3007635		Behind pushrod cover; 1.00" Dia.

**CRANKSHAFT/OIL PUMP**

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-3937111		Front; Engine Timing Cover
1	Oil Seal Kit	FP-3802820		Front; Incl. wear sleeve
1	Redi-Sleeve	FP-3906080		Front
QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-3926126		Rear; Single Lip; Dry Clutch; Incl. Wear Sleeve
1	Oil Seal Kit	FP-4089342 +		Rear; When depleted use FP-3934486
QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-3946689		Access Hole Cover Seal
1	O-Ring	FP-3679139		Cyl. Block; For use w/3089568 threaded plug

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**53 Grader QSB 6.7 Engines. Wheel Tractor QSB 6.7 Engines.**  
 (cont.) 6.7L 408 (6691cc) OHV Turbo-Diesel L6 (24 Valve), 107mm Bore (Cummins Eng.)

**CRANKSHAFT/OIL PUMP (cont.)**

QTY	OIL PUMP (cont.)	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-3678786		Cyl. Block; For use w/3678791 threaded plug
1	O-Ring	FP-3678925		Cyl. Block; For use w/3678924 threaded plug; M10 x 1.00
1	O-Ring	FP-3946188		Oil Dipstick Tube
1	O-Ring	FP-3929457		Oil Filter Head; For use w/3946947 threaded plug

**CYLINDER COMPONENTS**

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Cooling Nozzle	FP-4937308 *		
6	Pin Bushing	FP-4891178		

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Bearing Half Lower	FP-4892795		For fracture split rods; .25MM
6	Rod Bearing Half Lower	FP-4892796		For fracture split rods; .50MM
6	Rod Bearing Half Lower	FP-4892797		For fracture split rods; .75MM
6	Rod Bearing Half Lower	FP-4893693		For fracture split rods; STD
6	Rod Bearing Half Lower	FP-4892798		For fracture split rods; 1.00MM
6	Rod Bearing Half Upper	FP-4932375		For fracture split rods; .25MM
6	Rod Bearing Half Upper	FP-4932376		For fracture split rods; .50MM
6	Rod Bearing Half Upper	FP-4932377		For fracture split rods; .75MM
6	Rod Bearing Half Upper	FP-3969562		For fracture split rods; STD
6	Rod Bearing Half Upper	FP-4932378		For fracture split rods; 1.00MM

**54 Wheel Tractor A451, A451B, A451BD, A451D, 451, 451B, 451BD, 6-451B, 6-451D, 6-451BD Engs. (Diesel). Crawler Tractor A451, A451B, A451BD, A451D, 451, 451B, 451BD, 6-451B, 6-451D, 6-451BD.**  
 7.4L 451 Diesel L6, 4.375" Bore

**CYL. HEAD & PARTS**

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-A58869		A451BD, 6-451BD Engs.; 1.7500" Head Dia., 6.4300" O.A.L.
6	Exhaust	FP-A58870		A451BD, 6-451BD Engs.; 1.5600" Head Dia., 6.4300" O.A.L.
24	Keeper	FP-A27872		

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
6	Guide	FP-A11803		Exh.; A451D, 6-451D Engs.; .4050" ID, 3.2200" O.A.L.
12	Guide	FP-A11803		Exh. & Int.; A451BD, 6-451B, 6-451BD Engs.; .4050" ID, 3.2200" O.A.L.
6	Guide	FP-A26294		Int.; A451D, 6-451D Engs.; .4050" ID, 4.3800" O.A.L.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-A66444		A451B, A451BD, 6-451B, 6-451BD Engs.; Model 1070
12	Spring	FP-A21076		A451D, 6-451D Engs.

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
6	Rotocap	FP-A66336		A451D Eng. Model 1030; 6-451D & A451BD Eng. Model 1070 only; 6-451BD

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	FP-A58628		O-Ring style

**ENGINE BLOCK & PARTS**

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	FP-PGE451LC		A451BD, 6-451BD Engs.
1	Complete Overhaul Gasket Set	FP-PGE451EC		A451D, 6-451D Engs.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-A23544	STD	W/2.250" dia. brgs.

**CRANKSHAFT/OIL PUMP**

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Redi-Sleeve	FP-99260		
1	Oil Seal	FP-A157044		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-A62050		
1	Redi-Sleeve	FP-99475		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-7040M	Std-10-20	Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Main Set	FP-7040M10	Std-10-20	Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Main Set	FP-7040M20	Std-10-20	Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Main Set	FP-5045M	Std-10-20	W/.156" thick thrust washer
1	Main Set	FP-5045M10	Std-10-20	W/.156" thick thrust washer

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\* New Item — Check For Availability

*Wheel Tractor A451, A451B, A451BD, A451D, 451, 451B, 451BD, 6-451B, 6-451D, 54  
6-451BD Engs. (Diesel). Crawler Tractor A451, A451B, A451BD, A451D, 451, 451B, (cont.)  
451BD, 6-451B, 6-451D, 6-451BD.  
7.4L 451 Diesel L6, 4.375" Bore*

**CRANKSHAFT/OIL PUMP (cont.)**

QTY	MAIN BEARINGS (cont.)	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-5045M20	Std-10-20	W/.156" thick thrust washer
1	Main Set	FP-5047M	Std-10-20	W/.186" thick thrust washer
1	Main Set	FP-5047M10	Std-10-20	W/.186" thick thrust washer
1	Main Set	FP-5047M20	Std-10-20	W/.186" thick thrust washer
1	Thrust Washer Set	FP-A62572S	STD	Position 5; .156" Thick
1	Thrust Washer Set	FP-A62573S	STD	Position 5; .186" Thick
2	Thrust Washer Pc.	FP-A62572	STD	Position 5; .156" Thick
2	Thrust Washer Pc.	FP-A62573	STD	Position 5; .186" thick; .186" Thick

**CYLINDER COMPONENTS**

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Rings	FP-A148203		A451B, A451BD, 6-451B, 6-451BD Engs.; Flange dia. 5.173"
6	Liner w/o Sealing Rings	FP-A23660		A451D, 6-451D Engs.; Flange Dia. 5.127"
6	Liner w/Sealing Rings	FP-A148203WS	STD	A451B, A451BD, 6-451B, 6-451BD Engs.; Incl. (2) sealing rings; Flange dia. 5.173"
6	Liner w/Sealing Rings	FP-A23660WS	STD	A451D, 6-451D Engs.; Flange Dia. 5.127"
6	Cylinder Kit Complete	FP-A460221	STD	A451B, A451BD, 6-451B, 6-451BD Engs.; Liner Flange Dia. 5.173"
6	Cylinder Kit Complete	FP-A429951	STD	A451D, 6-451D Engs.; Liner Flange Dia. 5.127"
12	Sealing Ring, Liner	FP-2385246		Use 2 per liner

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	FP-A64766		A451B, A451BD, 6-451B, 6-451BD Engs.; Cast; 2-3/32, 1-1/4 Ring Groove; Dish Head .908" deep x 2.450" dia. w/2 valve reliefs
6	Piston Body w/o Pin	FP-A57139		A451D, 6-451D Engs.; Cast; 3-3/32, 1-1/4 Ring Groove; Flat Head
6	Piston Kit w/Pin & Retainers	FP-A64766WP	STD	A451B, A451BD, 6-451B, 6-451BD Engs.; Cast; 2-3/32, 1-1/4 Ring Groove; Dish Head .908" deep x 2.450" dia. w/2 valve reliefs
6	Piston Kit w/Pin & Retainers	FP-A57139WP	STD	A451D, 6-451D Engs.; Cast; 3-3/32, 1-1/4 Ring Groove; Flat Head
6	Pin	FP-A64767		1.501" Dia.
12	Piston Pin Retainer	FP-A21016		Use w/FP-A57139 piston
12	Piston Pin Retainer	FP-10021150		Use w/FP-A64766 piston
6	Pin Bushing	FP-A27846		1.500" Pin Dia.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	FP-A43173	STD	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43174	2	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43175	10	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43176	20	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43177	30	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A4317340	40	2.7490" Crank Pin Dia.

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-A42996	STD	A451D, 6-451D Engs.; 3-3/32, 1-1/4
6	Ring Set Single Cylinder	FP-A43028	STD	Exc. A451D, 6-451D Engs.; 2-3/32, 1-1/4; 1 cyl. set
3	Premium Set	FP-A43028S	STD	Exc. A451D, 6-451D Engs.; 2-3/32, 1-1/4 (2 cyl. set)

**KITS**

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Kit	FP-IFK451L		A-451BD, 6-451BD Engs.; From Ser. No. 2323001; w/thrust washer set .156" & .186" thick
1	Complete Overhaul Kit	FP-IFK451E		A-451D, 6-451D Engs. w/thrust washer set

*Wheel Tractor A451T, 451BT, 451BDT, 451DT, 6-451BDT Engs. (Turbo-Diesel) 55  
7.4L 451 Turbo-Diesel L6, 4.375" Bore*

**CYL. HEAD & PARTS**

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-A58869		Models 1170 & 1175; Model 1270 To Ser. No. 8736001; All 6-451BDT; 1.7500" Head Dia., 6.4300" O.A.L.
6	Exhaust	FP-A58870		Models 1170 & 1175; Model 1270 To Ser. No. 8736001; All 6-451BDT; 1.5600" Head Dia., 6.4300" O.A.L.
24	Keeper	FP-A27872		

(continued on next page)

<b>55 Wheel Tractor A451T, 451BT, 451BDT, 451DT, 6-451BDT Engs. (Turbo-Diesel)</b>				
<b>(cont.) 7.4L 451 Turbo-Diesel L6, 4.375" Bore</b>				
<b>CYL. HEAD &amp; PARTS (cont.)</b>				
<b>QTY</b>	<b>VALVE GUIDE</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
12	Guide	FP-A11803		Exh. & Int.; .4050" ID, 3.2200" O.A.L.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
12	Spring	FP-A66444		Model 1175, Model 1270; To Ser. No. 8736001
<b>QTY</b>	<b>VALVE MISC.</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
6	Rotocap	FP-A66336		Exh.; To Ser. No. 8736001
<b>QTY</b>	<b>VALVE SEAL</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
12	Valve Stem Seal	FP-A58628		O-Ring style
<b>ENGINE BLOCK &amp; PARTS</b>				
<b>QTY</b>	<b>GASKET SETS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Complete Overhaul Gasket Set	FP-PGE451LC		451BDT, 6-451BDT Engs.
<b>QTY</b>	<b>CAM BEARINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Cam Set	FP-A23544	STD	W/2.250" dia. brgs.
<b>CRANKSHAFT/OIL PUMP</b>				
<b>QTY</b>	<b>SEALS - FRONT CRANK</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Redi-Sleeve	FP-99260		
1	Oil Seal	FP-A157044		
<b>QTY</b>	<b>SEALS - REAR CRANK</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Oil Seal	FP-A62050		
1	Redi-Sleeve	FP-99475		
<b>QTY</b>	<b>MAIN BEARINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Main Set	FP-7040M	Std-10-20	Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Main Set	FP-7040M10	Std-10-20	Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Main Set	FP-7040M20	Std-10-20	Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Main Set	FP-5045M	Std-10-20	W/.156" thick thrust washer
1	Main Set	FP-5045M10	Std-10-20	W/.156" thick thrust washer
1	Main Set	FP-5045M20	Std-10-20	W/.156" thick thrust washer
1	Main Set	FP-5047M	Std-10-20	W/.186" thick thrust washer
1	Main Set	FP-5047M10	Std-10-20	W/.186" thick thrust washer
1	Main Set	FP-5047M20	Std-10-20	W/.186" thick thrust washer
1	Thrust Washer Set	FP-A62572S	STD	Position 5; .156" Thick
1	Thrust Washer Set	FP-A62573S	STD	Position 5; .186" Thick
2	Thrust Washer Pc.	FP-A62572	STD	Position 5; .156" Thick
2	Thrust Washer Pc.	FP-A62573	STD	Position 5; .186" Thick
<b>CYLINDER COMPONENTS</b>				
<b>QTY</b>	<b>LINERS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
6	Liner w/o Sealing Rings	FP-A148203		Flange dia. 5.173"
6	Liner w/Sealing Rings	FP-A148203WS	STD	Incl. (2) sealing rings; Flange dia. 5.173"
6	Cylinder Kit Complete	FP-A1514081	STD	Liner Flange dia. 5.173"
12	Sealing Ring, Liner	FP-2385246		Use 2 per liner
<b>QTY</b>	<b>PISTONS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
6	Piston Body w/o Pin	FP-A65040	STD	3-Ring; 1.625" pin dia.
6	Piston Kit w/Pin & Retainers	FP-A65040WP		3-Ring; 1.625" pin dia.
6	Pin	FP-A140607		1.625" pin dia.
12	Piston Pin Retainer	FP-10021162		
<b>QTY</b>	<b>CONNECTING RODS &amp; BRGS.</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
6	Rod Pair	FP-A43173	STD	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43174	2	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43175	10	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43176	20	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43177	30	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A4317340	40	2.7490" Crank Pin Dia.
<b>QTY</b>	<b>PISTON RINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
6	Ring Set Single Cylinder	FP-A166285	STD	
<b>KITS</b>				
<b>QTY</b>	<b>OVERHAUL KIT</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Complete Overhaul Kit	FP-IFK451L		w/thrust washer .156" & .186" thick; Gasket Set not included for 451BT Eng.

**Wheel Tractor A504BD, 504, 504B, 504BD, 6-504BD Engs. (Diesel). Crawler Tractor 56  
A504BD, 504, 504B, 504BD, 6-504BD Engs. (Diesel). Wheel Loader A504BD, 504, 504B,  
504BD, 6-504BD Engs. (Diesel). Excavator A504BD, 504, 504B, 504BD, 6-504BD Engs.  
(Diesel). Concrete Placer A504BD, 504, 504B, 504BD, 6-504BD Engs. (Diesel).  
8.3L 504 Diesel L6, 4.625" Bore**

**CYL. HEAD & PARTS**

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-A58626		Early style; 45 deg. seat; Chrome plated stem; Replaces O.E. Nos. A41754 & A58626
6	Intake	FP-A182172		Late style; 30 deg. seat; Chrome plated stem; Replaces O.E. Nos. A44575, A66193 & A182172
6	Exhaust	FP-A182173		Chrome plated stem; 1.7500" Head Dia., .4015" Stem Dia., 6.4280" O.A.L.
6	Exhaust	FP-V2422X		Optional stellite face; Chrome plated stem; Replaces O.E. No. A150225; 1.7500" Head Dia., .4015" Stem Dia., 6.4300" O.A.L.
24	Keeper	FP-A27872		
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
12	Guide	FP-A11803		.4050" ID, 3.2200" O.A.L.
12	Guide	FP-A41783		Flanged
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-A66444		
QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
6	Rotocap	FP-A66336		Exh.
QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	FP-A58628		O-Ring style

**ENGINE BLOCK & PARTS**

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	FP-PGE504LC		From Ser. No. 2539001; May be used before Ser. No. 2539001 if Cntr. Bores are re-worked & 5.19" Dia. firewall sleeves are used.
1	Complete Overhaul Gasket Set	FP-PGE504EC		To Ser. No. 2539000
QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-A23544	STD	W/2.250" dia. brgs.

**CRANKSHAFT/OIL PUMP**

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Redi-Sleeve	FP-99260		
1	Oil Seal	FP-A157044		
QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-A62050		
1	Redi-Sleeve	FP-99475		
QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-5049M	Std-10-20-30	Incl. thrust washer; 3.499" Crank Dia.
1	Main Set	FP-5049M10	Std-10-20-30	Incl. thrust washer; 3.499" Crank Dia.
1	Main Set	FP-5049M20	Std-10-20-30	Incl. thrust washer; 3.499" Crank Dia.
1	Main Set	FP-7040M	Std-10-20	Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Main Set	FP-7040M10	Std-10-20	Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Main Set	FP-7040M20	Std-10-20	Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Thrust Washer Set	FP-A62572S	STD	.156" Thick
1	Thrust Washer Set	FP-A62573S	STD	.186" Thick
2	Thrust Washer Pc.	FP-A62572	STD	.156" Thick
2	Thrust Washer Pc.	FP-A62573	STD	.186" Thick

**CYLINDER COMPONENTS**

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Rings	FP-A153638		From Ser. No. 2539001. For blocks w/5.427" counterbore dia.; Sleeve has 5.19" dia. firewall; May be used before Ser. No. 2539001 if the counterbores are reworked.
6	Liner w/o Sealing Rings	FP-A182185		To Ser. No. 2539000 - for blocks w/5.386" dia. counterbores; Sleeve has 5.09" dia. firewall; Counterbores may be reworked to use FP-A153638WS sleeve with 3 sealing rings and 5.19" dia. firewall.
6	Liner w/Sealing Rings	FP-A153638WS	STD	From Ser. No. 2539001. For blocks w/5.427" counterbore dia.; Sleeve has 5.19" dia. firewall & (3) FP-2387248 sealing rings; May be used before Ser. No. 2539001 if the counterbores are reworked.
6	Liner w/Sealing Rings	FP-A182185WS	STD	To Ser. No. 2539000 - for blocks w/5.386" dia. counterbores; Sleeve has 5.09" dia. firewall & (2) FP-2387157 sealing rings; Counterbores may be reworked to use FP-A153638WS sleeve with 3 sealing rings and 5.19" dia. firewall.

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**56** Wheel Tractor A504BD, 504, 504B, 504BD, 6-504BD Engs. (Diesel). Crawler Tractor (cont.) A504BD, 504, 504B, 504BD, 6-504BD Engs. (Diesel). Wheel Loader A504BD, 504, 504B, 504BD, 6-504BD Engs. (Diesel). Excavator A504BD, 504, 504B, 504BD, 6-504BD Engs. (Diesel). Concrete Placer A504BD, 504, 504B, 504BD, 6-504BD Engs. (Diesel).  
8.3L 504 Diesel L6, 4.625" Bore

**CYLINDER COMPONENTS (cont.)**

QTY	LINERS (cont.)	PART NO.	SIZE	DESCRIPTION
6	Cylinder Kit Complete	FP-A166134	STD	From Ser. No. 2539001; w/1.625" dia. piston pins; Contains FP-A153638 sleeve and FP-A166122 piston
6	Cylinder Kit Complete	FP-CK51233638	STD	From Ser. No. 2539001; w/1.800" dia. piston pins; Contains FP-A153638WS sleeve and FP-A65123WP piston
6	Cylinder Kit Complete	FP-CK61222185		To Ser. No. 2539000; 1.625" pin dia.; Contains FPA182185 Sleeve & FPA166122 piston; To Ser. No. 2539000 - for blocks w/5.386" dia. counterbores; Sleeve has 5.09" dia. firewall & (2) FP-2387157 sealing rings; Counterbores may be reworked to use FP-A153638WS sleeve with 3 sealing rings and 5.19" dia. firewall; Contains FP-A182185 sleeve and FP-A166122 piston
6	Cylinder Kit Complete	FP-A460251		To Ser. No. 2539000; 1.800" pin dia.; To Ser. No. 2539000 - for blocks w/5.386" dia. counterbores; Sleeve has 5.09" dia. firewall & (2) FP-2387157 sealing rings; Counterbores may be reworked to use FP-A153638WS sleeve with 3 sealing rings and 5.19" dia. firewall; Contains FP-A182185 sleeve and FP-A65123 piston
18	Sealing Ring, Liner	FP-2387248		Use w/FP-A153638 Liner
12	Sealing Ring, Liner	FP-2387157		Use w/FP-A182185 Liner
QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	FP-A166122		From Ser. No. 2539001; Use w/1.625" dia. piston pins
6	Piston Body w/o Pin	FP-A65123		From Ser. No. 2539001; Use w/1.800" dia. piston pins
6	Piston Kit w/Pin & Retainers	FP-A166122WP	STD	From Ser. No. 2539001; w/1.625" dia. piston pins; Cast; 2-3/32, 1-3/16 Ring Groove; Dish Head .812" deep x 2.680" dia. w/2 valve reliefs; 16.1:1 C.R.
6	Piston Kit w/Pin & Retainers	FP-A65123WP	STD	From Ser. No. 2539001; w/1.800" dia. piston pins; 1-1/8, 1-3/32, 1-1/4 Ring Groove; Dish Head .865" deep x 2.680" dia. w/2 valve reliefs
6	Pin	FP-A140607		Use w/FP-A166122 piston
6	Pin	FP-A58584		Use w/FP-A65123 piston; 1.800" Dia.
12	Piston Pin Retainer	FP-10021162		Use w/FP-A166122 piston
12	Piston Pin Retainer	FP-10021181		Use w/FP-A65123 piston
6	Pin Bushing	FP-A58580		W/1.800" pin dia.
QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	FP-A43173	STD	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43174	2	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43175	10	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43176	20	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43177	30	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A4317340	40	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A41758	STD	2.9990" Crank Pin Dia.
6	Rod Pair	FP-A41900	10	2.9990" Crank Pin Dia.
6	Rod Pair	FP-A41901	20	2.9990" Crank Pin Dia.
6	Rod Pair	FP-A41902	30	2.9990" Crank Pin Dia.
QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-A42988	STD	Check piston grooving before supplying ring set; 1-1/8, 1-3/32, 1-1/4; 2 cyl. set; Use w/piston FP-A65123
6	Ring Set Single Cylinder	FP-A48320	STD	Check piston grooving before supplying ring set; 2-3/32, 1-3/16; 2 cyl. set; Use w/piston FP-A166122
3	Premium Set	FP-A42988S	STD	Check piston grooving before supplying ring set; 1-1/8, 1-3/32, 1-1/4; 2 cyl. set; Use w/piston FP-A65123
3	Premium Set	FP-A48320S	STD	Check piston grooving before supplying ring set; 2-3/32, 1-3/16; 2 cyl. set; Use w/piston FP-A166122
KITS				
QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Kit	FP-IFK504L		From Ser. No. 2539001
1	Complete Overhaul Kit	FP-IFK504E		To Ser. No. 2539000



**Combine A504BDT, 504BDT, 504BDTI, 6-504BDT Engs. (Turbo-Diesel). Wheel Tractor A504BDT, 504BDT, 504BDTI, 6-504BDT Engs. (Turbo-Diesel). Crawler Tractor A504BDT, 504BDT, 504BDTI, 6-504BDT Engs. (Turbo-Diesel). Wheel Loader A504BDT, 504BDT, 504BDTI, 6-504BDT Engs. (Turbo-Diesel). Excavator A504BDT, 504BDT, 504BDTI, 6-504BDT Engs. (Turbo-Diesel). Concrete Placer A504BDT, 504BDT, 504BDTI, 6-504BDT Engs. (Turbo-Diesel).**

**57**  
 8.3L 504 Turbo-Diesel L6, 4.625" Bore

**CYL. HEAD & PARTS**

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-A58626		Early style; 45 deg. seat; Chrome plated stem; Replaces O.E. Nos. A41754 & A58626
6	Intake	FP-A182172		Late style; 30 deg. seat; Chrome plated stem; Replaces O.E. Nos. A44575, A66193 & A182172
6	Exhaust	FP-A182173		Chrome plated stem; 1.7500" Head Dia., .4015" Stem Dia., 6.4280" O.A.L.
6	Exhaust	FP-V2422X		Optional stellite face; Chrome plated stem; Replaces O.E. No. A150225; 1.7500" Head Dia., .4015" Stem Dia., 6.4300" O.A.L.
24	Keeper	FP-A27872		
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
12	Guide	FP-A11803		.4050" ID, 3.2200" O.A.L.
12	Guide	FP-A41783		Flanged
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-A66444		
QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
6	Rotocap	FP-A66336		Exh.
QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	FP-A58628		O-Ring style

**ENGINE BLOCK & PARTS**

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	FP-PGE504LC		From Ser. No. 2539001; May be used before Ser. No. 2539001 if Cntr. Bores are re-worked & 5.19" Dia. firewall sleeves are used.
1	Complete Overhaul Gasket Set	FP-PGE504EC		To Ser. No. 2539000
QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-A23544	STD	W/2.250" dia. brgs.

**CRANKSHAFT/OIL PUMP**

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Redi-Sleeve	FP-99260		
1	Oil Seal	FP-A157044		
QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-A62050		
1	Redi-Sleeve	FP-99475		
QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-5049M	Std-10-20-30	Incl. thrust washer; 3.499" Crank Dia.
1	Main Set	FP-5049M10	Std-10-20-30	Incl. thrust washer; 3.499" Crank Dia.
1	Main Set	FP-5049M20	Std-10-20-30	Incl. thrust washer; 3.499" Crank Dia.
1	Main Set	FP-7040M	Std-10-20	Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Main Set	FP-7040M10	Std-10-20	Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Main Set	FP-7040M20	Std-10-20	Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Thrust Washer Set	FP-A62572S	STD	.156" Thick
1	Thrust Washer Set	FP-A62573S	STD	.186" Thick
2	Thrust Washer Pc.	FP-A62572	STD	.156" Thick
2	Thrust Washer Pc.	FP-A62573	STD	.186" Thick

**CYLINDER COMPONENTS**

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Rings	FP-A153638		From Ser. No. 2539001. For blocks w/5.427" counterbore dia.; Sleeve has 5.19" dia. firewall; May be used before Ser. No. 2539001 if the counterbores are reworked.
6	Liner w/o Sealing Rings	FP-A182185		To Ser. No. 2539000 - for blocks w/5.386" dia. counterbores; Sleeve has 5.09" dia. firewall; Counterbores may be reworked to use FP-A153638WS sleeve with 3 sealing rings and 5.19" dia. firewall.
6	Liner w/Sealing Rings	FP-A153638WS	STD	From Ser. No. 2539001. For blocks w/5.427" counterbore dia.; Sleeve has 5.19" dia. firewall & (3) FP-2387248 sealing rings; May be used before Ser. No. 2539001 if the counterbores are reworked.

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**57** Combine A504BDT, 504BDT, 504BDTI, 6-504BDT Engs. (Turbo-Diesel). Wheel Tractor (cont.) A504BDT, 504BDT, 504BDTI, 6-504BDT Engs. (Turbo-Diesel). Crawler Tractor A504BDT, 504BDT, 504BDTI, 6-504BDT Engs. (Turbo-Diesel). Wheel Loader A504BDT, 504BDT, 504BDTI, 6-504BDT Engs. (Turbo-Diesel). Excavator A504BDT, 504BDT, 504BDTI, 6-504BDT Engs. (Turbo-Diesel). Concrete Placer A504BDT, 504BDT, 504BDTI, 6-504BDT Engs. (Turbo-Diesel).  
8.3L 504 Turbo-Diesel L6, 4.625" Bore

**CYLINDER COMPONENTS (cont.)**

QTY	LINERS (cont.)	PART NO.	SIZE	DESCRIPTION
6	Liner w/Sealing Rings	FP-A182185WS	STD	To Ser. No. 2539000 - for blocks w/5.386" dia. counterbores; Sleeve has 5.09" dia. firewall & (2) FP-2387157 sealing rings; Counterbores may be reworked to use FP-A153638WS sleeve with 3 sealing rings and 5.19" dia. firewall.
6	Cylinder Kit Complete	FP-A1521771	STD	A504BDT Engs.; From Ser. No. 2539001; Contains FP-A153638 sleeve; May be used before Ser. No. 2539001 if the cntr. bores are reworked
6	Cylinder Kit Complete	FP-CK24852185	STD	A504BDT Engs.; To Ser. No. 2539000; Contains FP-A182185 sleeve
6	Cylinder Kit Complete	FP-CK82353638	STD	A504BDTI (Turbo & Aftercooled) Engs.; From Ser. No. 2539001 Contains FP-A153638 sleeve
6	Sealing Ring, Liner	FP-2387248		Use w/FP-A153638 Liner
6	Sealing Ring, Liner	FP-2387157		Use w/FP-A182185 Liner
QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	FP-A152485		A504BDT Engs.; Cast; 2-1/8, 1-3/16 Ring Groove; Dish Head .790" deep x 2.680" dia. w/2 valve reliefs; 16.1:1 C.R.
6	Piston Body w/o Pin	FP-A138235		A504BDTI Turbo & Aftercooled Engs.; Cast
6	Piston Kit w/Pin & Retainers	FP-A152485WP	STD	A504BDT Engs.; Cast; 2-1/8, 1-3/16 Ring Groove; Dish Head .790" deep x 2.680" dia. w/2 valve reliefs; 16.1:1 C.R.
6	Piston Kit w/Pin & Retainers	FP-A138235WP	STD	A504BDTI Turbo & Aftercooled Engs.; Cast; 2-1/8, 1-3/16 Ring Groove; Dish Head .790" deep x 2.680" dia. w/2 valve reliefs. Dual Ni-resist Insert
6	Pin	FP-A58584		1.800" Dia.
12	Piston Pin Retainer	FP-10021181		
6	Pin Bushing	FP-A58580		W/1.800" pin dia.
QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	FP-A43173	STD	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43174	2	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43175	10	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43176	20	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43177	30	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A4317340	40	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A41758	STD	2.9990" Crank Pin Dia.
6	Rod Pair	FP-A41900	10	2.9990" Crank Pin Dia.
6	Rod Pair	FP-A41901	20	2.9990" Crank Pin Dia.
6	Rod Pair	FP-A41902	30	2.9990" Crank Pin Dia.
QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-A44054	STD	Check piston grooving before supplying ring set; 2-1/8, 1-3/16; 2 cyl. set
3	Premium Set	FP-A44054S	STD	Check piston grooving before supplying ring set; 2-1/8, 1-3/16 (2 cyl. set)
KITS				
QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Kit	FP-IFK504L		From Ser. No. 2539001
1	Complete Overhaul Kit	FP-IFK504E		To Ser. No. 2539000

**58** Cotton Picker ISC 8.3 Engines. Wheel Tractor ISC 8.3 Engines.  
8.3L 505 (8300cc) OHV Turbo-Diesel L6 (24 Valve), 114mm Bore (Cummins Eng.)

**CYL. HEAD & PARTS**

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-3939284		
QTY	HEAD BOLTS	PART NO.	SIZE	DESCRIPTION
26	Head Bolt	FP-3917728		M14 X 2.00 X 160
QTY	VALVE	PART NO.	SIZE	DESCRIPTION
12	Intake	FP-3942588		
12	Exhaust	FP-3942589		
12	Exhaust Valve Kit	FP-3800341		Incl. (1)FP-3942589 Valve, (2)FP-3900250 Keepers
12	Intake Valve Kit	FP-3800340		Incl. (1)FP-3942588 Valve, (2)FP-3900250 Keepers

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**Cotton Picker ISC 8.3 Engines. Wheel Tractor ISC 8.3 Engines. 58**  
8.3L 505 (8300cc) OHV Turbo-Diesel L6 (24 Valve), 114mm Bore (Cummins Eng.) (cont.)

<b>CYL. HEAD &amp; PARTS (cont.)</b>				
<b>QTY</b>	<b>VALVE (cont.)</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
48	Keeper	FP-3900250		Exh. & Int.
<b>QTY</b>	<b>VALVE SPRING</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
24	Spring	FP-4936076		Exh. & Int.; Use for Exhaust on Engines w/o Rotators
24	Spring	FP-4936079		Exh. & Int.; Use for Exhaust on Engines w/Rotators
<b>QTY</b>	<b>VALVE SEAL</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
24	Valve Stem Seal	FP-3948578		Exh. & Int.; Rubber
<b>FUEL SYSTEM &amp; PARTS</b>				
<b>QTY</b>	<b>FUEL FILTERS &amp; PUMP</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
6	O-Ring	FP-3029820		Injector seal
6	O-Ring	FP-3867043		Injector Connector seal
<b>COOLING SYSTEM</b>				
<b>QTY</b>	<b>WATER PUMP</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Water Pump - Heavy Duty	FP-4089647		
<b>QTY</b>	<b>THERMOSTAT</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Thermostat	FP-3940632		180 Degree
1	Thermostat Gasket	FP-3913032		Water Outlet
<b>ENGINE BLOCK &amp; PARTS</b>				
<b>QTY</b>	<b>GASKETS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Oil Pan Gasket	FP-3938160		
1	Washer	FP-3902425		Sealing; Oil Pan Plug Bottom
1	Washer	FP-3920773		Sealing; Oil Pan Plug Side; 18.40MM I.D. x 1.5MM Thick
<b>QTY</b>	<b>CAM BEARINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
7	Cam Brg.	FP-3945329	STD	
<b>CRANKSHAFT/OIL PUMP</b>				
<b>QTY</b>	<b>SEALS - FRONT CRANK</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Oil Seal	FP-3353977		Front
1	Oil Seal Kit	FP-3925343		Front; Incl. wear sleeve
<b>QTY</b>	<b>SEALS - REAR CRANK</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Oil Seal	FP-3909411		Rear; Double Lip; Wet Clutch
1	Oil Seal	FP-3909410		Rear; Single Lip; Dry Clutch
1	Oil Seal Kit	FP-3926126		Rear; Single Lip; Dry Clutch; Incl. Wear Sleeve
1	Redi-Sleeve	FP-3906081		Rear
1	Rear Cover Gasket	FP-3939353		Rear
1	Rect. or Square Seal	FP-3912473		Rear; Rear Cover; Rectangular
<b>QTY</b>	<b>MAIN BEARINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Main Set	FP-3945917	STD	Narrow style, 31.85 - 32.10MM
1	Main Set	FP-3945918	.25MM	Narrow style, 31.85 - 32.10MM
1	Main Set	FP-3945919	.50MM	Narrow style, 31.85 - 32.10MM
<b>QTY</b>	<b>OIL PUMP</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Oil Suction Tube Gasket	FP-3914302		
<b>CYLINDER COMPONENTS</b>				
<b>QTY</b>	<b>LINERS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
6	Liner w/o Sealing Rings	FP-3948095		
6	Liner w/Sealing Rings	FP-3800328		
6	Cylinder Kit Complete	FP-3800321	STD	CPX610, CPX620 before S/N Y6T011701, MX285
6	Cylinder Kit Complete	FP-LK03208095		Incl. FP-3943367 piston
6	Cylinder Kit Complete	FP-3800319	STD	MX240, MX255, MX270, STX275; Incl. FP-3942106 piston
6	Sealing Ring, Liner	FP-3907177		
<b>QTY</b>	<b>PISTONS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
6	Piston Body w/o Pin	FP-3942106	STD	
6	Piston Body w/o Pin	FP-3943367	STD	
6	Piston w/Retainer & Rings	FP-3800318	STD	
6	Piston w/Retainer & Rings	FP-3800320	STD	Incl. FP-3943367 piston; Incl. FP-3943367 piston
6	Piston w/Pin, Retainer, Rings	FP-PK2106	STD	Incl. FP-3942106 piston
6	Pin	FP-3934046		
12	Piston Pin Retainer	FP-3920692		
6	Piston Cooling Nozzle	FP-3928031		Thick-walled block; Late; S/N 91C & Up; 91C>; Eng. w/12 cooling nozzles
6	Pin Bushing	FP-3913990		

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**58 Cotton Picker ISC 8.3 Engines. Wheel Tractor ISC 8.3 Engines.**  
 (cont.) 8.3L 505 (8300cc) OHV Turbo-Diesel L6 (24 Valve), 114mm Bore (Cummins Eng.)

**CYLINDER COMPONENTS (cont.)**

<b>CONNECTING RODS &amp; BRGS.</b>				
QTY		PART NO.	SIZE	DESCRIPTION
6	Rod Pair	FP-3950661	STD	Brazil Applications
6	Rod Pair	FP-3950662	.25MM	Brazil Applications
6	Rod Pair	FP-3950663	.50MM	Brazil Applications
6	Rod Pair	FP-3950664	.75MM	Brazil Applications
6	Rod Pair	FP-3950665	1.00MM	Brazil Applications

<b>PISTON RINGS</b>				
QTY		PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-87343194		For articulated pistons
6	Ring Set Single Cylinder	FP-3802429	STD	Use w/FP-3942106 piston
6	Ring Set Single Cylinder	FP-3802538	STD	Use w/FP-3943367 piston

**KITS**

<b>OVERHAUL KIT</b>				
QTY		PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-IFKISCQSC		
1	Complete Overhaul Kit	FP-OHISCQSC		

**59 Combine. Cotton Picker. Loader. Power Unit. Wheel Tractor "C" Series; 6CT8.3 (6T-830)(Turbo), 6CTA8.3(6TA-830)(Turbo-Aftercooled). Crawler Tractor. Wheel Loader. Excavator.**  
 8.3L 505 (8300cc) OHV Turbo-Diesel L6, 114mm Bore (Cummins Eng.)

**CYL. HEAD & PARTS**

<b>GASKETS</b>				
QTY		PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-3905449		
1	Head Gasket	FP-3935585		
1	Head Set	FP-4025271		Incl. valve stem seals

<b>HEAD BOLTS</b>				
QTY		PART NO.	SIZE	DESCRIPTION
14	Head Bolt	FP-3917728		From S/N 44487830 Long; M14 X 2.00 X 160
12	Head Bolt	FP-3917729		From S/N 44487830 Short; M14 X 2.00 X 80
14	Head Bolt	FP-3907233		To S/N 44487829 Long; M14 X 2.00 X 150
12	Head Bolt	FP-3907234		To S/N 44487829 Short; M14 X 2.00 X 70

<b>VALVE</b>				
QTY		PART NO.	SIZE	DESCRIPTION
6	Intake	FP-3924492		
6	Exhaust	FP-3921444		
6	Exhaust Valve Kit	FP-3802085		Incl. valve and keepers
6	Intake Valve Kit	FP-3802463		Incl. valve and keepers
24	Keeper	FP-3901177		

<b>VALVE SEAT</b>				
QTY		PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-3929005		
6	Int.	FP-3924582		

<b>VALVE GUIDE</b>				
QTY		PART NO.	SIZE	DESCRIPTION
12	Guide	FP-3923564		Int. & Exh.

<b>VALVE SPRING</b>				
QTY		PART NO.	SIZE	DESCRIPTION
6	Spring	FP-3916588		Exh.; 3.0500" Free Height
6	Spring	FP-3906412		Int.; 2.6000" Free Height
24	Spring	FP-4936079		Int. & Exh.; ISC Engine; 4 Valve Head

<b>VALVE MISC.</b>				
QTY		PART NO.	SIZE	DESCRIPTION
1	Oil Filler Cap Gasket	FP-3902466		

<b>VALVE SEAL</b>				
QTY		PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	FP-3927642		Int. & Exh.

<b>ROCKER PARTS</b>				
QTY		PART NO.	SIZE	DESCRIPTION
6	Rocker Shaft	FP-3919435		
2	Expansion Plug	FP-3907555		Rocker Lever
6	O-Ring	FP-3910824		Rocker Lever Cover Screw; .364" I.D. x .070" Thick
12	Adjusting Screw Nut	FP-203131		3/8" - 24 UNF
12	Support, Rocker Lever	FP-3905870		
12	Rocker Lever Exhaust	FP-3901717		
6	Clamp	FP-3901693		Rocker Lever
12	Snap Ring	FP-3901764		Rocker Lever

**INT & EXH MANIFOLDS**

<b>INT. &amp; EXH. MANIFOLDS</b>				
QTY		PART NO.	SIZE	DESCRIPTION
6	Exhaust Manifold Gasket	FP-3932063		
1	Intake Manifold Gasket	FP-3936993		

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*Combine. Cotton Picker. Loader. Power Unit. Wheel Tractor "C" Series; 6CT8.3 59  
(6T-830)(Turbo), 6CTA8.3(6TA-830)(Turbo-Aftercooled). Crawler Tractor. Wheel Loader. (cont.)  
Excavator.  
8.3L 505 (8300cc) OHV Turbo-Diesel L6, 114mm Bore (Cummins Eng.)*

**CAMSHAFT GROUP**

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Oil Filler Cap	FP-101322		2"
QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft	FP-3923478		CPL's 601-5, 752-5, 805, 818-9, 828-31, 848, 890, 892-3, 942, 954, 959, 982, 984-5, 1196, 1212, 1217, 1221-2, 1248, 1269, 1273-5, 1321, 1356, 1366, 1377, 1435, 1464, 1539, 1547, 1603, 1612, 1616, 1633, 1639, 1826.; To use this camshaft, you must purchase the following O.E. Replacement parts from Cummins(TM): 3918777 cam gear, 3927155 thrust plate, and 3902332 key.
12	Lifter	FP-3931623		

**FUEL SYSTEM & PARTS**

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Tube	FP-3906783		No. 1 Cylinder
1	Injector Tube	FP-3906784		No. 2 Cylinder
1	Injector Tube	FP-3906785		No. 3 Cylinder
1	Injector Tube	FP-3910521		No. 4 Cylinder
1	Injector Tube	FP-3906788		No. 5 Cylinder
6	Copper Washer	FP-3906659		1.50MM Thick
6	Fuel Line Connector	FP-3903380		Fuel Manifold; Banjo connector
QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Fuel Transfer Pump	FP-4944712		117 - 229.9 LPH; 1/4 x 18 NPTF Fuel Inlet
1	Cover Plate Gasket	FP-3931348		Fuel Transfer Pump Mounting
2	Washer	FP-3918191		Sealing; Fuel Filter; .500" I.D., Banjo Connector
2	Washer	FP-3918192		Sealing; Fuel Inlet Tube
2	Washer	FP-3918188		Sealing; Fuel Supply Tube
1	Fuel Shutdown Solenoid	FP-3921978		12V
1	Fuel Shutdown Solenoid	FP-3921980		24V

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Mounting Gasket	FP-3911941		

**COOLING SYSTEM**

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump - Heavy Duty	FP-3806180		
1	Ball Brg.	FP-3910739		Fan Drive
1	O-Ring	FP-3902089		Water Pump Mounting
1	Shaft & Bearing Assembly	FP-3903787		
1	V Belt	FP-3911558		59 X 1.125"; Ribbed 8
1	V Belt	FP-3911582		70 X 1.125"; Ribbed 8

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-3928639		180 Deg. F
1	Thermostat Gasket	FP-3914310		Thermostat Housing

**ENGINE BLOCK & PARTS**

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-3938160		
1	Washer	FP-3902425		Sealing; Oil Pan Plug
1	Washer	FP-3920773		Sealing; Oil Pan Plug; 18.40MM I.D. x 1.5MM Thick
1	Cover Plate Gasket	FP-3908096		Bell Housing
1	Gear Cover Gasket	FP-3917780		
1	Gear Housing Gasket	FP-3281721		

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	FP-3800558		
1	Gasket Conversion Set	FP-3802389		When depleted use FP-3800558
1	In-Frame Gasket Set	FP-4025271S		Incl. valve stem seals

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
7	Cam Brg.	FP-3945329	STD	

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler	FP-3974815		
1	Oil Press. Reg. Low Pressure	FP-3945967		
1	Oil Cooler Gasket	FP-3914308		Core, Filter Head to S/N 44500128
1	Oil Cooler Core Inner Gasket	FP-3918174		Core
1	Oil Cooler Core Outer Gasket	FP-3918332		Core, Filter Head from S/N 44500129

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**59** Combine. Cotton Picker. Loader. Power Unit. Wheel Tractor "C" Series; **6CT8.3**  
 (cont.) **(6T-830)(Turbo), 6CTA8.3(6TA-830)(Turbo-Aftercooled).** Crawler Tractor. Wheel Loader.  
 Excavator.  
 8.3L 505 (8300cc) OHV Turbo-Diesel L6, 114mm Bore (Cummins Eng.)

**ENGINE BLOCK & PARTS (cont.)**

QTY	FREEZE PLUGS	PART NO.	SIZE	DESCRIPTION
1	Expansion Plug	FP-3901969		
<b>CRANKSHAFT/OIL PUMP</b>				
QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	FP-3918986		
QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-3353977		Front
1	Oil Seal Kit	FP-3925343		Front; Incl. wear sleeve
QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-3909411		Rear; Double Lip; Wet Clutch
1	Oil Seal	FP-3909410		Rear; Single Lip; Dry Clutch
1	Oil Seal Kit	FP-3926126		Single Lip; Dry Clutch; Incl. Wear Sleeve
1	Redi-Sleeve	FP-3906081		Rear
1	Rear Cover Gasket	FP-3939353		Rear
1	Rear Cover Gasket	FP-3914301		Rear; Seal Retainer
1	Rect. or Square Seal	FP-3912473		Rear; Rectangular
QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-3945917	STD	Narrow style, 31.85 - 32.10MM
1	Main Set	FP-3945918	.25MM	Narrow style, 31.85 - 32.10MM
1	Main Set	FP-3945919	.50MM	Narrow style, 31.85 - 32.10MM
1	Main Set	FP-3802210	STD	Wide style, 33.85 - 34.10MM
1	Main Set	FP-3802211	.25MM	Wide style, 33.85 - 34.10MM
1	Main Set	FP-3802212	.50MM	Wide style, 33.85 - 34.10MM
QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Oil Pump	FP-3948071		
1	Oil Pump	FP-3800828		Includes Pressure Regulator
1	Oil Suction Tube Gasket	FP-3914302		
<b>CYLINDER COMPONENTS</b>				
QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Rings	FP-3948095		To be used with late thick-walled cylinder block #3934899 Effective 1/05/98. This liner is 3mm shorter than previous liners. Refer to Cummins Service Topics 99T1-3.
6	Liner w/o Sealing Rings	FP-3907792		To S/N 44706125; To be used with early standard cylinder block #3802265 prior to 1991.
6	Liner w/o Sealing Rings	FP-3919937		6T-830, 6TA-830; From S/N 44706126; To be used with late thick-walled cylinder block #3928962 1991 thru 1/04/98.
6	Liner w/Sealing Rings	FP-3802370		To S/N 44706125; Early; Prior to 1991
6	Liner w/Sealing Rings	FP-3800328		1/05/98 to Present; Thick-walled block; Liner is 3mm shorter than previous liners; Refer to Cummins Service Topics 99T1-3.
6	Liner w/Sealing Rings	FP-3802407		6T-830, 6TA-830; From S/N 44706126; 1991 thru 1/04/98; Thick-walled Block
6	Cylinder Kit Complete	FP-LK91618095		To be used with late thick-walled cylinder block #3934899 Effective 1/05/98. This liner is 3mm shorter than previous liners. Refer to Cummins Service Topics 99T1-3.; Contains piston FP-3929161 & liner FP-3948095
6	Cylinder Kit Complete	FP-3934588		To be used with late thick-walled cylinder block #3934899 Effective 1/05/98. This liner is 3mm shorter than previous liners. Refer to Cummins Service Topics 99T1-3.; Contains piston FP-3925878 & liner FP-3948095
6	Cylinder Kit Complete	FP-LK31648095	STD	To be used with late thick-walled cylinder block #3934899 Effective 1/05/98. This liner is 3mm shorter than previous liners. Refer to Cummins Service Topics 99T1-3.; Contains piston FP-3923164 & liner FP-3948095
6	Cylinder Kit Complete	FP-LK77078095	STD	To be used with late thick-walled cylinder block #3934899 Effective 1/05/98. This liner is 3mm shorter than previous liners. Refer to Cummins Service Topics 99T1-3.; Contains piston FP-3917707 & liner FP-3948095
6	Cylinder Kit Complete	FP-4020062	STD	To be used with late thick-walled cylinder block #3934899 Effective 1/05/98. This liner is 3mm shorter than previous liners. Refer to Cummins Service Topics 99T1-3.; Contains piston FP-4019886 & liner FP-3948095
6	Cylinder Kit Complete	FP-LK92477792		To S/N 44706125; To be used with early standard cylinder block #3802265 prior to 1991.; Contains piston FP-3919247 & liner FP-3907792

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*Combine. Cotton Picker. Loader. Power Unit. Wheel Tractor "C" Series; 6CT8.3 59  
(6T-830)(Turbo), 6CTA8.3(6TA-830)(Turbo-Aftercooled). Crawler Tractor. Wheel Loader. (cont.)  
Excavator.  
8.3L 505 (8300cc) OHV Turbo-Diesel L6, 114mm Bore (Cummins Eng.)*

**CYLINDER COMPONENTS (cont.)**

QTY	LINERS (cont.)	PART NO.	SIZE	DESCRIPTION
6	Cylinder Kit Complete	FP-3802372		To S/N 44706125; To be used with early standard cylinder block #3802265 prior to 1991.; Contains piston FP-3919566 & liner FP-3907792
6	Cylinder Kit Complete	FP-3802388		To S/N 44706125; To be used with early standard cylinder block #3802265 prior to 1991.; Contains piston FP-3917707 & liner FP-3907792
6	Cylinder Kit Complete	FP-3802399		To S/N 44706125; To be used with early standard cylinder block #3802265 prior to 1991.; Contains piston FP-3923165 & liner FP-3907792
6	Cylinder Kit Complete	FP-4020060	STD	To S/N 44706125; To be used with early standard cylinder block #3802265 prior to 1991.; Contains piston FP-4019886 & liner FP-3907792
6	Cylinder Kit Complete	FP-3802400		6T-830; To be used with early standard cylinder block #3802265 prior to 1991; To Eng. S/N 44706125 w/piston stamped 3163, 8749, 9564, 9928
6	Cylinder Kit Complete	FP-3802403		6T-830; To be used with late thick-walled cylinder block #3928962 1991 thru 1/04/98; From Eng. S/N 44706126 w/piston stamped 3163 or 9564
6	Cylinder Kit Complete	FP-LK31638095	STD	6T-830; To be used with thick-walled cylinder block #3934906; Short liner
6	Cylinder Kit Complete	FP-LK92479937		6T-830, 6TA-830; From S/N 44706126; To be used with late thick-walled cylinder block #3928962 1991 thru 1/04/98.; Contains piston FP-3919247 & liner FP-3919937
6	Cylinder Kit Complete	FP-3802402		6T-830, 6TA-830; From S/N 44706126; To be used with late thick-walled cylinder block #3928962 1991 thru 1/04/98.; Contains piston FP-3923165 & liner FP-3919937
6	Cylinder Kit Complete	FP-3802405 +		6T-830, 6TA-830; From S/N 44706126; To be used with late thick-walled cylinder block #3928962 1991 thru 1/04/98.; Contains piston FP-3919566 & liner FP-3919937; When depleted use FP-4020061
6	Cylinder Kit Complete	FP-3802610		6T-830, 6TA-830; From S/N 44706126; To be used with late thick-walled cylinder block #3928962 1991 thru 1/04/98.; B Grade piston; Anodized crown & combustion bowl; Contains piston FP-3925879 & liner FP-3919937
6	Cylinder Kit Complete	FP-3802743		6T-830, 6TA-830; From S/N 44706126; To be used with late thick-walled cylinder block #3928962 1991 thru 1/04/98.; A Grade piston; Anodized crown & combustion bowl; Contains piston FP-3925878 & liner FP-3919937
6	Cylinder Kit Complete	FP-3802811		6T-830, 6TA-830; From S/N 44706126; To be used with late thick-walled cylinder block #3928962 1991 thru 1/04/98.; Contains piston FP-3929161 & liner FP-3919937
6	Cylinder Kit Complete	FP-4020061	STD	6T-830, 6TA-830; From S/N 44706126; To be used with late thick-walled cylinder block #3928962 1991 thru 1/04/98.; Contains piston FP-4019886 & liner FP-3919937
6	Cylinder Kit Complete	FP-3802401		6T-830, 6TA-830; To be used with early standard cylinder block #3802265 prior to 1991; To Eng. S/N 44706125 w/piston stamped 3164, 9565, 9930
6	Cylinder Kit Complete	FP-3934586		6TA-830; To be used with late thick-walled cylinder block #3934899 Effective 1/05/98. This liner is 3mm shorter than previous liners. Refer to Cummins Service Topics 99T1-3.
6	Cylinder Kit Complete	FP-3802406		6TA-830; To be used with late thick-walled cylinder block #3928962 1991 thru 1/04/98.
6	Cylinder Kit Complete	FP-3802404		6TA-830; To be used with late thick-walled cylinder block #3928962 1991 thru 1/04/98; From Eng. S/N 44706126 w/piston stamped 3164 or 9565
6	Sealing Ring, Liner	FP-3907177		
QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	FP-3923165		
6	Piston Body w/o Pin	FP-3929161	STD	
6	Piston Body w/o Pin	FP-3925878	STD	A Grade; Anodized crown & combustion bowl
6	Piston Body w/o Pin	FP-3925879	STD	B Grade; Anodized crown & combustion bowl
6	Piston Body w/o Pin	FP-3356210	STD	Brazilian applications.
6	Piston Body w/o Pin	FP-3919247	STD	Charge-Air-Cooled; Europe Appl.
6	Piston Body w/o Pin	FP-3919566	STD	When depleted use FP-4019886
6	Piston Body w/o Pin	FP-3923163	STD	6T-830
6	Piston Body w/o Pin	FP-3923164	STD	6T-830, 6TA-830; Engine Coolant Aftercooled
6	Piston Body w/o Pin	FP-3917707	STD	6TA-830; Charge-Air-Cooled; U.S.A. Appl.
6	Piston Kit w/Pin & Retainers	FP-3923163WP	STD	6T-830
6	Piston Kit w/Pin & Retainers	FP-3923164WP	STD	6T-830, 6TA-830

(continued on next page)  
+ Superseded Part Number

**59** Combine. Cotton Picker. Loader. Power Unit. Wheel Tractor "C" Series; **6CT8.3**  
 (cont.) **(6T-830)(Turbo), 6CTA8.3(6TA-830)(Turbo-Aftercooled).** Crawler Tractor. Wheel Loader.  
 Excavator.  
 8.3L 505 (8300cc) OHV Turbo-Diesel L6, 114mm Bore (Cummins Eng.)

**CYLINDER COMPONENTS (cont.)**

QTY	PISTONS (cont.)	PART NO.	SIZE	DESCRIPTION
6	Piston Kit w/Pin & Retainers	FP-3917707WP	STD	6TA-830
6	Piston w/Retainer & Rings	FP-3802397	STD	6T-830
6	Piston w/Retainer & Rings	FP-3802398	STD	6T-830, 6TA-830
6	Piston w/Retainer & Rings	FP-3802263	STD	6TA-830
6	Piston w/Pin, Retainer, Rings	FP-PK3163	STD	6T-830
6	Piston w/Pin, Retainer, Rings	FP-PK3164	STD	6T-830, 6TA-830
6	Piston w/Pin, Retainer, Rings	FP-PK7707	STD	6TA-830
6	Pin	FP-3934046		
12	Piston Pin Retainer	FP-3920692		
6	Piston Cooling Nozzle	FP-3905928		Early; < 91C; Eng. w/6 cooling nozzles
12	Piston Cooling Nozzle	FP-3928031		Thick-walled block; Late; 91C>; Eng. w/12 cooling nozzles
6	Pin Bushing	FP-3913990		

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-3928870		
12	Con. Rod Nut	FP-3934864		
6	Rod Bearing Half Upper/Lower	FP-3901430	STD	
6	Rod Bearing Half Upper/Lower	FP-3901431	.25MM	
6	Rod Bearing Half Upper/Lower	FP-3901432	.50MM	
6	Rod Bearing Half Upper/Lower	FP-3901433	.75MM	
6	Rod Bearing Half Upper/Lower	FP-3901434	1.00MM	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-3802110	STD	For Early engines; Replaces O.E. No. A77562
6	Ring Set Single Cylinder	FP-3802429	STD	6T-830, 6TA-830

**KITS**

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-6C83PREM		Premium; With Upper Gasket Set & Pan Gasket
1	Complete Overhaul Kit	FP-6C83PREMOH		Premium; With Front & Rear Seals and Upper & Lower Gasket Sets

**60** Wheel Tractor L10 (LTA10) (4-Valve Cyl. Head)  
 10.0L 611 (10000cc) OHV Turbo-Diesel L6 (24 Valve), 125mm Bore (Cummins Eng.)

**CYL. HEAD & PARTS**

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-3883220		Late
1	Rocker Cover Gasket	FP-3034855		Early
1	Head Gasket	FP-2864080		
1	Head Gasket	FP-4022500		
1	Head Set	FP-4025155		Early
1	O-Ring	FP-3037537		9/16" Dia. ID

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
3	Bolt	FP-4022907		14MM X 1.50MM X 70MM
12	Screw	FP-147389		Crosshead; 3/8" - 24 UNF x 3/4"

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
12	Intake	FP-3033234		Bare
12	Intake	FP-3418020		Bare
12	Exhaust	FP-3418021		
12	Exhaust	FP-3417713		w/Letter 'S' stamped in head; Chrome plated stem; 1.6730" Head Dia., .3789" Stem Dia., 6.9400" O.A.L.
12	Exhaust Valve Kit	FP-3803996		w/Letter 'S' stamped in head; Incl. FP-3417713 valve & (2) FP-3275354 keepers; 1.6730" Head Dia., .3789" Stem Dia., 6.940" O.A.L.
12	Exhaust Valve Kit	FP-3800639		Incl. FP-3418021 valve & (2) FP-3275354 keepers
12	Intake Valve Kit	FP-3801356		Incl. FP-3033234 valve & (2) FP-3275354 keepers
12	Intake Valve Kit	FP-3800638		Incl. FP-3418020 valve & (2) FP-3275354 keepers
48	Keeper	FP-3275354		

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
12	Exh.	FP-3090704		1.8110" OD, 1.4300" ID, .1850" Depth
12	Exh.	FP-3418040	STD	1.8120" OD, 1.4500" ID, .1970" Depth
24	Exh. & Int.	FP-3418052		
12	Int.	FP-3090703		1.8100" OD, 1.4250" ID, .1850" Depth

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
24	Guide	FP-3033314		

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*Wheel Tractor L10 (LTA10) (4-Valve Cyl. Head) 60*  
10.0L 611 (10000cc) OHV Turbo-Diesel L6 (24 Valve), 125mm Bore (Cummins Eng.) (cont.)

**CYL. HEAD & PARTS (cont.)**

QTY	VALVE GUIDE (cont.)	PART NO.	SIZE	DESCRIPTION
24	Guide	FP-3328785		.3819" ID, 2.6330" O.A.L.
24	Guide	FP-3033230		Valve Spring Seat
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
24	Spring	FP-3895860		4.0670" Free Height
24	Spring	FP-3033233		Inner
24	Spring	FP-3033232		Outer
QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
24	Valve Stem Seal	FP-3328781		Int. & Exh.
QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
8	Expansion Plug	FP-3007635		1.00" Dia.
12	Cam Follower Roller	FP-3895488		Valve
6	Injector Cam Roller	FP-3895487		Injector
5	Adjusting Screw Nut	FP-S212		1/2" - 20 UNF; Use w/FP-168306
12	Adjusting Screw Nut	FP-203131		3/8" - 24 UNF
12	Valve Bridge Guide	FP-123558		
12	Valve Roller Pin	FP-3335342		Cam Follower
18	Rocker Lever Adjusting Screw	FP-168306		1/2" - 20 UNF x 2.045" Length; Use w/FP-S212
6	Fuel Injector Roller Pin	FP-3335341		Cam Follower
6	Valve Lifter Socket	FP-3033292		Cam Follower; Early

**INT & EXH MANIFOLDS**

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
6	Exhaust Manifold Gasket	FP-3328948		

**CAMSHAFT GROUP**

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Oil Filler Cap	FP-101322		2"
QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft	FP-3036117		CPL's 528, 638, 703, 704, 717, 770, 773, 774, 775, 776, 777, 784, 785, 786, 881, 882, 894, 919, 921, 958, 1198, 1234, 1198, 1359, 1414, 1454, 1459, 1660, 1674, 1687, 1695, 1696, 1699, 1849.; Bare
1	Camshaft	FP-3037523		CPL's 652, 655, 671, 735, 748, 751, 764, 765, 780, 781, 783, 787, 788, 789, 790, 835, 836, 894, 978, 995, 1208, 1429, 1443.; Bare

**AIR COMPRESSOR**

QTY	AIR COMPRESSOR	PART NO.	SIZE	DESCRIPTION
1	Air Compressor Gasket Set	FP-AR73308		13.2 CFM
1	Air Compressor Gasket	FP-176027		Support to Compressor Housing; 13.2 CFM
1	Air Compressor Gasket	FP-154018		13.2 CFM
1	Air Compressor Gasket	FP-3047159		13.2 CFM
1	Air Connection Gasket	FP-3201386		13.2 CFM
1	O-Ring	FP-128085		13.2 CFM
1	O-Ring	FP-128086		13.2 CFM
1	O-Ring	FP-3043995		13.2 CFM
1	Gasket	FP-3820922		Air Compressor Support; 13.2 CFM
1	Air Compressor Seal Ring	FP-127936		13.2 CFM

**FUEL SYSTEM & PARTS**

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
6	Fuel Injector Sleeve	FP-3070486		Thin
12	Fuel Injector Sleeve	FP-3070486		Thin
6	Screw	FP-3018772		PTD Top Stop
6	Screw	FP-3055742		PTD Top Stop
6	Fuel Injector	FP-3045102		PTD
6	Fuel Injector Repair Parts	FP-167157		Check Ball
6	Fuel Injector Valve Spring	FP-166009		
6	Retainer, Fuel Inj. Spring	FP-3049995		PTD Top Stop
6	Fuel Inj. Plunger & Barrel	FP-3049996		PTD Top Stop
6	Fuel Inj. Plunger & Barrel	FP-3069718		STC
1	Fuel Injector Adapter	FP-3028066		PTD Top Stop
1	Fuel Injector Cup	FP-3069717		orifice number 8; orifice size 0.007; 14 Deg. spray angle
1	Fuel Injector Cup	FP-3071564		orifice number 8; orifice size 0.067; 14 Deg. spray angle
1	Fuel Injector Cup	FP-3028068		orifice number 9; orifice size 0.007; 10 Deg. spray angle
6	Lock Nut	FP-3009362		PTD Top Stop
6	Fuel Injector Screen	FP-3008706		
6	Fuel Injector Roller Pin	FP-203426		

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**60 Wheel Tractor L10 (LTA10) (4-Valve Cyl. Head)**  
 (cont.) 10.0L 611 (10000cc) OHV Turbo-Diesel L6 (24 Valve), 125mm Bore (Cummins Eng.)

**FUEL SYSTEM & PARTS (cont.)**

QTY	FUEL INJECTION (cont.)	PART NO.	SIZE	DESCRIPTION
6	Fuel Injector Retainer	FP-185138		PTD Top Stop Injector
QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Fuel Pump Valve	FP-3050624		
1	Fuel Pump Valve	FP-3035342		Shutdown; 12V
1	Fuel Pump Valve	FP-3035344		Shutdown; 24V
2	Fuel Pump Gear	FP-119364		1 1/4"
2	Fuel Pump Gear	FP-119363		3/4"
1	Fuel Pump Drive Shaft	FP-3000266		Fuel Shutoff Valve
1	Fuel Pump Drive Shaft	FP-212601		Main Shaft; AFC
1	Fuel Pump Drive Shaft	FP-100215		3/4"; Drive, Splined
1	Fuel Pump Check Valve	FP-3030970		Fuel Shutoff Valve
6	O-Ring	FP-3007759		
6	O-Ring	FP-193736		Fuel Injector
18	O-Ring	FP-193736		Fuel Injector Mounting; Non Select
6	O-Ring	FP-3007759		Injector Sleeve
2	O-Ring	FP-3042542		AFC Assembly
1	O-Ring	FP-3045986		AFC Assembly
1	O-Ring	FP-151900		Fuel Pump Damper; 0.621" OD, 0.494" ID
1	O-Ring	FP-100099		Fuel Pump Damper; 1.627" OD, 1.364" ID
1	O-Ring	FP-139988		Fuel Pump Damper; 1.752" OD, 1.489" ID
1	O-Ring	FP-3040817		Fuel Pump Front Cover
1	O-Ring	FP-129888		Fuel Shutoff Valve
1	O-Ring	FP-190876		Fuel Shutoff Valve
1	Fuel Pump Gasket	FP-4026171		Front Cover to Drive
1	Fuel Pump Gasket	FP-110855		Fuel Pump Body
2	Oil Seal	FP-3062676		Front Cover
1	Ball Brg.	FP-S16052		Fuel Pump Front Cover
1	Bushing	FP-163944		Fuel Pump
1	Fuel Pump Spider Jaw Coupling	FP-3046200		
1	Fuel Pump Check Valve	FP-3033740		
1	Air Fuel Control Check Valve	FP-3015522		
1	Fuel Pump Mounting Gasket	FP-3069017		
1	Fuel Pump Housing Cover	FP-3063052		Automotive
1	Rect. or Square Seal	FP-154087		Fuel Shutoff Valve

**COOLING SYSTEM**

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump - Heavy Duty	FP-3803403		3 Hole Mount
1	Water Pump - Heavy Duty	FP-3803402		4 Hole Mount
1	Water Pump Shaft	FP-3040964		For FP-3803402 Pump
1	Water Pump Shaft	FP-3819632		For FP-3803403 Pump; 4.216" Long
1	Water Pump Impeller	FP-3035679		
1	Water Pump Repair/Rebuild Kit	FP-4024817		3 Hole Mount
1	Water Pump Repair/Rebuild Kit	FP-3801179		4 Hole Mount
1	Water Pump Retainer Ring	FP-3064634		
1	Water Pump Mech. Shaft Seal	FP-3029099		
1	Ball Brg.	FP-S16002		
1	Ball Brg.	FP-S16054		
1	Rect. or Square Seal	FP-3080770		
1	Oil Seal	FP-3019600		
1	Oil Seal	FP-3027675		Fan Drive
1	O-Ring	FP-3033247		
1	O-Ring	FP-3033248		
1	O-Ring	FP-3820791		
1	O-Ring	FP-3892095		
1	O-Ring	FP-3883284		Air Intake Connection; For 3.00" Dia. Turbocharger elbow
1	O-Ring	FP-3045986		Oil Control Valve
1	O-Ring	FP-3066914		Oil Control Valve
1	O-Ring	FP-3037537		9/16" Dia. ID
1	Gasket	FP-3070100		Air Connection
1	Gasket	FP-3027924		Connection
1	Housing Gasket	FP-3027445		Heater Housing
1	Snap Ring	FP-112302		
1	Water Pump Idler Assembly	FP-3062602		
1	Water Pump Lock Ring	FP-160586		
QTY	SEALS - FAN HUB	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-200307		INNER
1	Oil Seal	FP-3027675		OUTER

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*Wheel Tractor L10 (LTA10) (4-Valve Cyl. Head) 60*  
10.0L 611 (10000cc) OHV Turbo-Diesel L6 (24 Valve), 125mm Bore (Cummins Eng.) (cont.)

<b>COOLING SYSTEM (cont.)</b>				
<b>QTY</b>	<b>THERMOSTAT</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Thermostat Gasket	FP-3818841		Thermostat Housing
1	Rect. or Square Seal	FP-186780		
1	Rect. or Square Seal	FP-186780		
<b>QTY</b>	<b>MISCELLANEOUS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
2	Bearing Support Gasket	FP-3883365		
<b>ENGINE BLOCK &amp; PARTS</b>				
<b>QTY</b>	<b>GASKETS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Front Cover Gasket	FP-3058148		
1	Oil Pan Gasket	FP-3882433		Early; Narrow flange pan gasket
1	Oil Pan Gasket Set	FP-3882433PS		Early; Incl. narrow flange pan gasket, with washers and seal rings.
1	Oil Pan Gasket Set	FP-3882733PS		Late; Incl. wide flange pan gasket, with washers and seal rings
2	Washer	FP-67946		Oil Pan Plug; 1.03125" ID
1	O-Ring	FP-3883150		
1	O-Ring	FP-3046201		O-Ring for 3/4" plug
1	Cover Plate Gasket	FP-3025296		
1	Cover Plate Gasket	FP-3820872		
1	Gasket	FP-3600925		End Plate
1	Gasket	FP-3026134		Flywheel Housing
3	Hand Hole Gasket	FP-3883472		
1	Rect. or Square Seal	FP-3820945		
6	Rect. or Square Seal	FP-3820945		
1	Rect. or Square Seal	FP-3820946		
1	Seal Strip	FP-3893964 +		Gear Cover; When depleted use FP-4920751
6	Ring - Seal	FP-3201659		
<b>QTY</b>	<b>GASKET SETS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Gasket Conversion Set	FP-3803404		Early
<b>QTY</b>	<b>DOWEL PINS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Dowel Pin	FP-70550		.312 Dia. X .500 Inch Length
<b>QTY</b>	<b>CAM BEARINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Cam Set	FP-2878168S	STD	
1	Cam Set	FP-3820566S +		When depleted use FP-2878168S
7	Cam Brg.	FP-2878168	STD	
7	Cam Brg.	FP-3820566 +		When depleted use FP-2878168
<b>QTY</b>	<b>FREEZE PLUGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
3	Expansion Plug	FP-3007635		1.00" Dia.
2	Pipe Plug	FP-3002158		
<b>QTY</b>	<b>DIPSTICK</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Dipstick	FP-216484		90" Long; Blank Universal
<b>QTY</b>	<b>MISCELLANEOUS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
38	Bolt	FP-4070463		Short, Gear Cover; 8MM X 1.25MM x 12MM
2	Pipe Plug	FP-3002158		
<b>CRANKSHAFT/OIL PUMP</b>				
<b>QTY</b>	<b>CRANKSHAFT</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Crankshaft	FP-3819989		5 Hole, Internal Dampner Only
<b>QTY</b>	<b>SEALS - FRONT CRANK</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Oil Seal	FP-3803896		Front; Incl. seal kit & bolts
1	Redi-Sleeve	FP-3820917		Front
<b>QTY</b>	<b>SEALS - REAR CRANK</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Oil Seal Kit	FP-3800643		Rear; Dry
1	Redi-Sleeve	FP-3819774		
<b>QTY</b>	<b>MAIN BEARINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Main Set	FP-4025125	STD	To March 1997; For engines w/roll pin design thrust washers
1	Main Set	FP-4025126	10	To March 1997; For engines w/roll pin design thrust washers
1	Main Set	FP-4025127	20	To March 1997; For engines w/roll pin design thrust washers
1	Main Set	FP-4025128	30	To March 1997; For engines w/roll pin design thrust washers
1	Thrust Washer Set	FP-3161653S		
1	Thrust Washer	FP-3161653	STD	
<b>QTY</b>	<b>OIL PUMP</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
2	O-Ring	FP-3032787		Lube Oil Transfer/Pick Up Tube
1	O-Ring	FP-3042542		Oil Control Valve
1	Oil Pump Cover Gasket	FP-3004242		
2	Oil Drain Plug	FP-3055069		Oil Pan; 1" - 18 UNS

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+ Superseded Part Number

**60 Wheel Tractor L10 (LTA10) (4-Valve Cyl. Head)**  
 (cont.) 10.0L 611 (10000cc) OHV Turbo-Diesel L6 (24 Valve), 125mm Bore (Cummins Eng.)

**CRANKSHAFT/OIL PUMP (cont.)**

QTY	OIL PUMP (cont.)	PART NO.	SIZE	DESCRIPTION
2	Oil Drain Plug	FP-3055069		1" - 18 UNS
1	Filter Head Gasket	FP-3820629		

**CYLINDER COMPONENTS**

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Rings	FP-3080760		
6	Liner w/Sealing Rings	FP-3803703		
6	Cylinder Kit Complete	FP-3803963		
6	Cylinder Kit Complete	FP-3800801	STD	16.1:1 C.R.
6	Cylinder Kit Complete	FP-3803964	STD	16.6:1 C.R.
6	Cylinder Kit Complete	FP-3800800	STD	17.0:1 C.R.
6	Cylinder Kit Complete	FP-3803974	STD	18.1:1 C.R.
6	Liner Kit w/o Piston	FP-3800800NP		Includes Liner, Ring Set, Piston Pin, Seal Ring, Retainers
6	Sealing Ring, Liner	FP-3047188		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	FP-3893751		
6	Piston Body w/o Pin	FP-3044448		16.1:1 C.R.
6	Piston Body w/o Pin	FP-3068090		16.6:1 C.R.
6	Piston Body w/o Pin	FP-3055622		17.0:1 C.R.
6	Piston Body w/o Pin	FP-3045907		18.1:1 C.R.
6	Piston w/Pin, Retainer, Rings	FP-3803962		
6	Piston w/Pin, Retainer, Rings	FP-3803965		16.1:1 C.R.
6	Piston w/Pin, Retainer, Rings	FP-3803968		16.6:1 C.R.
6	Piston w/Pin, Retainer, Rings	FP-3803967		17.0:1 C.R.
6	Piston w/Pin, Retainer, Rings	FP-3803966		18.1:1 C.R.
6	Pin	FP-4083243		
6	Pin	FP-4083244		
12	Piston Pin Retainer	FP-3016652		
6	Piston Pin Set	FP-3800140		Includes Piston Pin FP-4083243 and Retainer FP-3016652
6	Piston Pin Set	FP-3800256		Includes Piston Pin FP-4083244 and Retainer FP-3016652
6	Pin Bushing	FP-3027105		Drilled Rod
6	Pin Bushing	FP-3896894		Non Drilled Rod

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
1	Rod Set	FP-63016760PR	STD	Contains (12) of FP3016760
6	Rod Pair	FP-3016760PR	STD	Contains (2) of FP3016760
12	Rod Bearing Half Upper/Lower	FP-3016760	STD	
12	Rod Bearing Half Upper/Lower	FP-3016761	10	
12	Rod Bearing Half Upper/Lower	FP-3016762	20	
12	Rod Bearing Half Upper/Lower	FP-3016763	30	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-3803961	STD	Includes Top Ring, Comp Ring, Oil Ring

**KITS**

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-L10PREM		For engines w/outer dia. tab thrust washers; Premium; With Upper Gasket Set & Pan Gasket
1	Complete Overhaul Kit	FP-L10PREMOH		For engines w/outer dia. tab thrust washers; Premium; With Front & Rear Seals and Upper & Lower Gasket Sets

**61 Off Highway Truck QSM 10.8 Engines. Wheel Loader QSM 10.8 Engines.**  
 10.8L 661 (10800cc) OHV Turbo-Diesel L6 (24 Valve), 125mm Bore (Cummins Eng.)

**CYL. HEAD & PARTS**

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Set	FP-4089478		

**ENGINE BLOCK & PARTS**

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	FP-4089998		

**CRANKSHAFT/OIL PUMP**

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-4025120	STD	For engines w/outer dia. tab thrust washers
1	Main Set	FP-4025121	10	For engines w/outer dia. tab thrust washers
1	Main Set	FP-4025122	20	For engines w/outer dia. tab thrust washers
1	Main Set	FP-4025123	30	For engines w/outer dia. tab thrust washers
1	Main Set	FP-4025125	STD	Pre-2004 Engs.; For engines w/roll pin design thrust washers

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**Off Highway Truck QSM 10.8 Engines. Wheel Loader QSM 10.8 Engines. 61**  
 10.8L 661 (10800cc) OHV Turbo-Diesel L6 (24 Valve), 125mm Bore (Cummins Eng.) (cont.)

**CRANKSHAFT/OIL PUMP (cont.)**

QTY	MAIN BEARINGS (cont.)	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-4025126	10	Pre-2004 Engs.; For engines w/roll pin design thrust washers
1	Main Set	FP-4025127	20	Pre-2004 Engs.; For engines w/roll pin design thrust washers
1	Main Set	FP-4025128	30	Pre-2004 Engs.; For engines w/roll pin design thrust washers

**CYLINDER COMPONENTS**

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Rings	FP-3102423	STD	
6	Liner w/Sealing Rings	FP-4089388	STD	Incl. liner & sealing ring
6	Sealing Ring, Liner	FP-3047188		

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Rod Bearing Half Upper/Lower	FP-3016760	STD	
12	Rod Bearing Half Upper/Lower	FP-3016761	10	
12	Rod Bearing Half Upper/Lower	FP-3016762	20	
12	Rod Bearing Half Upper/Lower	FP-3016763	30	
12	Rod Bearing Half Upper/Lower	FP-3016764	40	

**Wheel Tractor 62**  
 14.0L 855 OHV Turbo-Diesel L6, 5.5" Bore (Cummins Eng.)

**CYL. HEAD & PARTS**

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
3	Valve Cover Gasket	FP-3054841		Single valve cover gskt., 5-bolt Engs.; 3 req'd.
3	Rocker Housing Gasket	FP-3017750		Single rocker box gskt., 5-bolt Engs.; 3 req'd.
1	Head Gasket	FP-3040180		.010" O/S Head Gasket
1	Head Gasket	FP-4058790		Single head gskt., Standard thickness; Incl. .010" thick water grommets. 3 req'd.
1	Head Set	FP-3801348		Upper; .010 O/S Water Grommets; Upper set, SC & BC I, II, III, 5 bolt Engs.; w/ & w/o FFC
1	Head Set	FP-3804276		Upper; Contains standard size water grommets
1	Cam Follower Gasket	FP-3074401		855 Big Cam; .006-.008
1	Cam Follower Gasket	FP-3074402		855 Big Cam; .014-.020
1	Cam Follower Gasket	FP-3074403		855 Big Cam; .018-.025
1	Cam Follower Gasket	FP-3074404		855 Big Cam; .026-.036
1	Cam Follower Housing Gasket	FP-3074400		855 Big Cam; .014-.021

QTY	HEAD BOLTS	PART NO.	SIZE	DESCRIPTION
36	Head Bolt	FP-209700		6 1/4"
36	Head Bolt	FP-3013623		7 1/4"

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
1	Brass Water Tube	FP-CWB008		Brass
1	Fitting	FP-181213		90 Deg.
1	Insert, Water	FP-3823681		Threaded

QTY	FREEZE PLUGS	PART NO.	SIZE	DESCRIPTION
6	Expansion Plug	FP-216524		1 1/4" Dia. Cup
18	Expansion Plug	FP-213395		1" Dia. Cup
3	Expansion Plug	FP-213394		3/4" Dia. Cup

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
12	Intake	FP-135957		1.8700" Head Dia., .4505" Stem Dia., 7.0660" O.A.L.
12	Exhaust	FP-3040830		
12	Exhaust Valve Kit	FP-3803519		Incl. (1)FP-3040830 Valve, (2)FP-127554 Keepers
12	Intake Valve Kit	FP-3803512		Incl. (1)FP-135957 Valve, (2)FP-127554 Keepers
24	Keeper	FP-127554		Exh. & Int.

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
12	Exh. & Int.	FP-3017759	STD	Check Cummins Service Topics 93T2-2; 2.0030" OD, 1.6900" ID, .2795" Depth

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
12	Guide	FP-3006457		Exh. & Int.; Check Cummins Service Topics 93T2-2
12	Guide	FP-3006458		Exh. & Int.; Check Cummins Service Topics 93T2-2
12	Guide	FP-3006456		Exh. & Int.; Check Cummins Service Topics 93T2-2; .4530" ID, 3.3900" O.A.L.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-3081212		Exh. & Int.; Check Cummins Service Topics 93T2-2; w/One Green Stripe
12	Spring	FP-211999		Exh. & Int.; Check Cummins Service Topics 93T2-2; 2.6850" Free Height
12	Spring	FP-3035996 +		Exh. & Int.; 2.6350" Free Height; When depleted use FP-3081212

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+ Superseded Part Number

**62 Wheel Tractor**  
(cont.) 14.0L 855 OHV Turbo-Diesel L6, 5.5" Bore (Cummins Eng.)

**CYL. HEAD & PARTS (cont.)**

QTY	VALVE SPRING (cont.)	PART NO.	SIZE	DESCRIPTION
12	Retainer	FP-170296		Exh. & Int.
12	Valve Spring Seat	FP-3042745		Exh. & Int.
QTY	PUSH RODS	PART NO.	SIZE	DESCRIPTION
6	Push Rod	FP-3046430		855 Big Cam; Injector
12	Push Rod	FP-3046420		Exh. & Int.; 855 Big Cam; 17.7220" O.A.L.
QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Crosshead Valve Assembly	FP-3030038		Exh. & Int.; 855 Big Cam
QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	FP-156541		Exh. & Int.; Installation requires valve guide machining; Polyacrylate
QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
3	Rocker Shaft	FP-3038904		
12	Cam Follower Roller	FP-3036933		855 Big Cam
6	Injector Cam Roller	FP-3036934		855 Big Cam
18	Adjusting Screw Nut	FP-S212		1/2" - 20 UNF; Use w/FP-168306
12	Valve Roller Pin	FP-3013331		Exh. & Int.; 855 Big Cam
18	Rocker Lever Adjusting Screw	FP-168306		1/2" - 20 UNF x 2.045" Length; Use w/FP-S212
6	Rocker Shaft Plug	FP-3038903		For FP-3038904 shaft
6	Rocker Arm Socket	FP-194037		
6	Bushing	FP-218153		Injector
6	Bushing	FP-118377		Injector; Cam Follower
12	Bushing	FP-118378		Exh. & Int.; Valve; Cam Follower
12	Bushing	FP-140330		Exh. & Int.; Valve; Rocker Lever
6	Fuel Injector Roller Pin	FP-3013330		855 Big Cam
18	Valve Lock Pin	FP-118939		Injector and Valve; Cam Follower

**ENGINE BRAKE**

QTY	ENGINE BRAKE	PART NO.	SIZE	DESCRIPTION
1	Jake Brake Gasket Set	FP-PGJ10		Jake Brake gskt. set, 5-bolt Eng.s. 1 req'd.

**INT & EXH MANIFOLDS**

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
3	Intake Manifold Gasket	FP-3008591		Eng. w/Aftercooler

**CAMSHAFT GROUP**

QTY	TIMING	PART NO.	SIZE	DESCRIPTION
1	Cam Gear	FP-3002901		
QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft	FP-3049024		Flangeless 2.500" camshaft; Replaces O.E. Nos. 3025518, 3049024, (cam only); or 3026975, 3801036 (camshaft w/pipe plug).
1	Camshaft Thrust Washer	FP-215233		
3	Cam Follower Shaft	FP-3065125		

**ACCESSORY DRIVE**

QTY	ACCESSORY DRIVE	PART NO.	SIZE	DESCRIPTION
1	Accessory Drive Repair Kit	FP-90004		
1	Wear Sleeve	FP-190397		
1	Oil Seal	FP-3004316		Front Cover

**FUEL SYSTEM & PARTS**

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
6	Fuel Injector Sleeve	FP-3070486		Thin
6	Bolt	FP-70772		Fuel Crossover; Qty 2 Per Head; 1/4" - 20 X 1/2" Fillister machine screw
6	O-Ring	FP-131026		Fuel Crossover; Qty 2 Per Head
18	O-Ring	FP-193736		Fuel Injector Mounting; 3 per injector
6	O-Ring	FP-3007759		Injector Tube Seal
1	Fitting	FP-181213		Fuel Crossover; Qty A/R; 90 Deg.
6	Fuel Crossover Connection	FP-147100		Qty 2 Per Head

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Mechanical Fuel Pump	FP-3034243		

**COOLING SYSTEM**

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump - Heavy Duty	FP-3801708		Vented; Multi-groove pulley
1	Water Pump Repair/Rebuild Kit	FP-3801712		w/Brg. & seal

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<b>COOLING SYSTEM (cont.)</b>				
<b>QTY</b>	<b>WATER PUMP (cont.)</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Water Pump Gasket	FP-3002385		Water pump mounting gskt.
1	O-Ring	FP-43643A		Front Water By-pass
4	O-Ring	FP-70624		Water Manifold Coupling
2	O-Ring	FP-212161		Water Transfer Tube
1	V Belt	FP-217638		Multi-Groove
1	Water Pump Idler Assembly	FP-3064919		Multi-Groove
1	Water Pump Connection Gasket	FP-3024960		
<b>QTY</b>	<b>SEALS - FAN HUB</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Oil Seal	FP-200307		Inner
1	Oil Seal	FP-3027675		Outer
<b>QTY</b>	<b>THERMOSTAT</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Thermostat	FP-146076		160 Deg. F
1	Thermostat	FP-204586		175 Deg. F
1	Thermostat	FP-135675		180 degree F, Vented
1	Thermostat	FP-3076489		180 Deg. F, Non-Vented
1	Thermostat Gasket	FP-208128		
1	Water Outlet Gasket	FP-3019158		
1	Rect. or Square Seal	FP-186780		
<b>QTY</b>	<b>MISCELLANEOUS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Water Filter Valve	FP-179901		For 3/8" Pipe, 3/8" Heater Hose; 3/8 Pipe-3/8 Heater Hose
1	Water Heater Valve	FP-157098		For 3/8" Pipe, 5/8" Heater Hose; 3/8 Pipe-5/8 Heater Hose
1	Hose	FP-102522		Water By-pass Hose
6	Ring - Seal	FP-3024709		Water Manifold
1	Bypass Tube	FP-213485		Water By-pass Pipe
<b>ENGINE BLOCK &amp; PARTS</b>				
<b>QTY</b>	<b>GASKETS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Oil Pan Gasket	FP-3349820		0.79mm / 0.031" Thick; One piece gskt.
1	Oil Pan Gasket Set	FP-PGC300		All 855 Engs.; Incl. 1 pc. oil pan gskt.; Includes Seals For Suction Tube & Drain Plug
<b>QTY</b>	<b>GASKET SETS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Gasket Conversion Set	FP-3801235		Lower
1	In-Frame Gasket Set	FP-3804276IF		Contains standard size water grommets
1	In-Frame Gasket Set	FP-3801348S		In Frm.; Small Cam & Big Cam I, II, III, 5-bolt Engs.; O/S Grommets
<b>QTY</b>	<b>CAM BEARINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Cam Set	FP-3007689S	STD	Big Cam 2.500" dia.; Engs. w/2.625" cam housing
1	Cam Set	FP-3801106	STD	Big Cam 2.500" dia.; Engs. w/2.687" cam housing
<b>QTY</b>	<b>OIL COOLERS &amp; FILTERS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Aftercooler Core Assembly	FP-3411460		For Big Cam III and Engs. up-dated to cross bolt mount, O.E. Nos. 3028997 & 3068724.
1	Aftercooler Gasket Set	FP-PGC206		
1	Aftercooler Housing Gasket	FP-216486		
1	Aftercooler Gasket	FP-3032348		
1	Oil Cooler	FP-3412285		13.125" x 3.125" tube bundle. O.E. No's. 3018692, 3045483 & 3412285. Big Cam III & Big Cam IV.
1	Oil Cooler Gasket Kit	FP-3801199		
1	Oil Cooler Gasket	FP-3008017		
1	Oil Cooler Gasket	FP-3047464		
1	Oil Cooler Gasket	FP-3047465		
1	Oil Cooler Gasket	FP-3069014		
4	O-Ring	FP-195952		Aftercooler Core Seal
2	O-Ring	FP-212161		Oil Cooler
1	O-Ring	FP-3030808		Oil Cooler
1	O-Ring	FP-3045979		Oil Cooler
1	Sealing Ring	FP-3018695		Oil Cooler Core Seal
1	Grommet	FP-3034579		Oil Cooler
<b>QTY</b>	<b>DIPSTICK</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Dipstick	FP-216484		90" Long; Blank Universal
<b>QTY</b>	<b>MISCELLANEOUS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
6	Bolt	FP-204165		NT-855; Flywheel; Snub Nose Crankshaft; 5/8" - 18 X 1 5/8"
1	Bushing	FP-132770		NT-855; Gear Cover; w/1.567" ID, 1.697" OD, 1.500" O.A.L.
6	Washer	FP-200861		NT-855; Flywheel, Snub Nose Crankshaft

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**62 Wheel Tractor**  
(cont.) 14.0L 855 OHV Turbo-Diesel L6, 5.5" Bore (Cummins Eng.)

<b>CRANKSHAFT/OIL PUMP</b>				
<b>QTY</b>	<b>CRANKSHAFT</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Crankshaft	FP-3608833		w/Stub Nose Crankshaft; Stub Nose
1	Vibration Damper	FP-217323		13.55" Dia.; Stub Nose
6	Bolt	FP-204165		Vibration damper to crankshaft; 5/8" - 18 X 1 5/8"
1	Crank Gear	FP-3014614		Front; w/Stub Nose Crankshaft; 36 Teeth; 36 Teeth
<b>QTY</b>	<b>SEALS - FRONT CRANK</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Oil Seal	FP-3006736		Front; w/Stub Nose Crankshaft
1	Oil Seal	FP-3010457		Front; w/Tapered Nose Crankshaft
1	Redi-Sleeve	FP-3006742		Front; w/Stub Nose Crankshaft
<b>QTY</b>	<b>SEALS - REAR CRANK</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Oil Seal	FP-3006737		Rear; Dry Applications; 6.00" Shaft
1	Oil Seal	FP-3006738		Rear; Wet Applications; Wet Clutch
1	Redi-Sleeve	FP-3006743		Rear; Wet Clutch; 6.00" Shaft
<b>QTY</b>	<b>MAIN BEARINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Main Set	FP-3801260	STD	W/Partial groove brgs.; Incl. thrust washers
1	Main Set	FP-3801261	10	W/Partial groove brgs.; Incl. thrust washers
1	Main Set	FP-3801262	20	W/Partial groove brgs.; Incl. thrust washers
1	Main Set	FP-3801263	30	W/Partial groove brgs.; Incl. thrust washers
1	Main Set	FP-3801264	40	W/Partial groove brgs.; Incl. thrust washers
4	Thrust Washer	FP-3067568	STD	Position 7
6	Bolt	FP-204165		Vibration damper to crankshaft; 5/8" - 18 X 1 5/8"
<b>QTY</b>	<b>OIL PUMP</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	Oil Pump	FP-3821572		For Big Cam (2.500"dia.) Eng.
1	O-Ring	FP-3029847		Oil suction tube seal
1	Oil Pump Gasket	FP-3067613		Oil pump body to block
1	Oil Suction Tube Gasket	FP-157551		
<b>CYLINDER COMPONENTS</b>				
<b>QTY</b>	<b>LINERS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
6	Liner w/o Sealing Rings	FP-3046325	20	
6	Liner w/o Sealing Rings	FP-3055099	STD	Std. Liners
6	Liner w/o Sealing Rings	FP-3065405	20	20/40 Oversize lower press-fit liner; Flange Dia. is .020" Larger than Std.; Flange thickness is .020" greater than Std.; Pilot Dia. is .040" larger than Std.
6	Liner w/Sealing Rings	FP-3801387	20	.020 UPF; 9170, 9180 Models; Incl. (1) FP215090 crevice seal, (2) FP3032874 (Blk., middle & lower) sealing rings. Oversize, flange Press Fit dia. .020" larger & flange thickness .010" greater than Std. Replaces O.E. Nos. 3046325 & 3801387 w/seals (referred to as '10/20 Size').
6	Liner w/Sealing Rings	FP-3803219	20	.020/.040 LPF; 9170, 9180 Models; Incl. (1) FP215090 crevice seal, (2) FP3032874 (Blk., middle & lower) sealing rings. Oversize, flange Press Fit dia. .020" larger than Std. & lower Press Fit is increased by .040". Replaces O.E. Nos. 3056405 & 3803219 (referred to as '20/40 Size').
6	Liner w/Sealing Rings	FP-3801826	STD	Standard LPF; 9170, 9180 Models; Incl. (1) FP215090 crevice seal, (2) FP3032874 (Blk., middle & lower) sealing rings. Std. size, Lower Press Fit design. Replaces O.E. Nos. 3055099 & 3801826 w/seals.
6	Cylinder Kit Complete	FP-3801768	STD	14.5:1 C.R.; 9170 Models; Sled Runner Skirt; Premium Plus; 4 Rings; Refer to CPL chart for CPL application data
6	Cylinder Kit Complete	FP-3803213	20	14.5:1 C.R.; 9170 Models; Sled Runner Skirt; Premium Plus; 4 Rings; Refer to CPL chart for CPL application data
6	Cylinder Kit Complete	FP-3801771	STD	9180 Models; Sled Runner Skirt; Premium Plus; 4 Rings; Refer to CPL chart for CPL application data
6	Cylinder Kit Complete	FP-3803214	20	9180 Models; Sled Runner Skirt; Premium Plus; 4 Rings; Refer to CPL chart for CPL application data
6	Cyl. Liner Sealing Ring Kit	FP-3800174		Incl. (1) FP-215090, (2) FP-3032874
6	Sealing Ring, Liner	FP-215090		Crevice Seal
6	Sealing Ring, Liner	FP-3032874		Middle & Lower Seal
1	Flange Shim	FP-SLG23773	3-5-10	.003" Thick, fits Std. & 10/20 sleeves
1	Flange Shim	FP-SLG23775	3-5-10	.005" Thick, fits Std. & 10/20 sleeves
1	Flange Shim	FP-3019956	8	.008" Thick, fits Std. & 10/20 sleeves
1	Flange Shim	FP-SLG237710	3-5-10	.010" Thick, fits Std. & 10/20 sleeves
1	Flange Shim	FP-3054948	20	.020" Thick, fits Std. & 10/20 sleeves
1	Repair Block Bushing	FP-RBL002		Lower Eng. block repair bushing
1	Repair Block Bushing	FP-RBU001		Upper Eng. block repair bushing, non-bored.
<b>QTY</b>	<b>PISTONS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
6	Piston Body w/o Pin	FP-3051556		14.0:1 C.R.; 9180 Models; Sled Runner Skirt; Single NI-Resist; 4 Rings

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*Wheel Tractor* **62**  
14.0L 855 OHV Turbo-Diesel L6, 5.5" Bore (Cummins Eng.) (cont.)

**CYLINDER COMPONENTS (cont.)**

<b>QTY</b>	<b>PISTONS (cont.)</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
6	Piston Body w/o Pin	<b>FP-3051555</b>		14.5:1 C.R.; 9170 Models; Sled Runner Skirt; Single NI-Resist; 4 Rings
6	Piston Kit w/Pin & Retainers	<b>FP-3801773WP</b>	STD	14.0:1 C.R.; 9180 Models; Single NI-Resist; 4 Rings; 14.0:1 C.R.
6	Piston Kit w/Pin & Retainers	<b>FP-3801770WP</b>	STD	14.5:1 C.R.; 9170 Models; Single NI-Resist; 4 Rings; 14.5:1 C.R.
6	Piston With Retainers	<b>FP-3801773</b>		14.0:1 C.R.; 9180 Models; Sled Runner Skirt; Single NI-Resist; 4 Rings; 14.0:1 C.R.
6	Piston With Retainers	<b>FP-3801770</b>		14.5:1 C.R.; 9170 Models; Sled Runner Skirt; Single NI-Resist; 4 Rings; 14.5:1 C.R.
6	Pin	<b>FP-191970</b>		
12	Piston Pin Retainer	<b>FP-175755</b>		2 per piston
6	Piston Cooling Nozzle	<b>FP-3013591</b>		
6	Pin Bushing	<b>FP-187420</b>		1 piece bushing; 1 piece bushing; 2.20" Width
6	Bushing	<b>FP-116391</b>		Accessory drive bushing; O.E. No. 116391
6	Bushing	<b>FP-132770</b>		Front cover bushing; O.E. No. 132770; w/1.567" ID, 1.697" OD, 1.500" O.A.L.
<b>QTY</b>	<b>CONNECTING RODS &amp; BRGS.</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
12	Con. Rod Bolt	<b>FP-219153</b>		
6	Rod Pair	<b>FP-214950PR</b>	STD	Big Cam 2.500" dia.; Engs. w/1.741" length. brgs.; Used w/con. rod No. 218808; w/3.1240-3.1250" std. shaft size
6	Rod Pair	<b>FP-214951PR</b>	10	Big Cam 2.500" dia.; Engs. w/1.741" length. brgs.; Used w/con. rod No. 218808; w/3.1240-3.1250" std. shaft size
6	Rod Pair	<b>FP-214952PR</b>	20	Big Cam 2.500" dia.; Engs. w/1.741" length. brgs.; Used w/con. rod No. 218808; w/3.1240-3.1250" std. shaft size
12	Rod Bearing Half Upper/Lower	<b>FP-214950</b>	STD	Big Cam 2.500" dia.; Engs. w/1.741" length. brgs.; Used w/con. rod No. 218808
12	Rod Bearing Half Upper/Lower	<b>FP-214951</b>	10	Big Cam 2.500" dia.; Engs. w/1.741" length. brgs.; Used w/con. rod No. 218808
12	Rod Bearing Half Upper/Lower	<b>FP-214952</b>	20	Big Cam 2.500" dia.; Engs. w/1.741" length. brgs.; Used w/con. rod No. 218808
12	Rod Bearing Half Upper/Lower	<b>FP-214953</b>	30	Big Cam 2.500" dia.; Engs. w/1.741" length. brgs.; Used w/con. rod No. 218808
12	Rod Bearing Half Upper/Lower	<b>FP-214954</b>	40	Big Cam 2.500" dia.; Engs. w/1.741" length. brgs.; Used w/con. rod No. 218808
<b>QTY</b>	<b>PISTON RINGS</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
6	Ring Set Single Cylinder	<b>FP-4089811</b>	STD	9170, 9180 Models
<b>KITS</b>				
<b>QTY</b>	<b>OVERHAUL KIT</b>	<b>PART NO.</b>	<b>SIZE</b>	<b>DESCRIPTION</b>
1	In-Frame Overhaul Kit	<b>FP-855PREMP</b>		Premium Plus; 4 Rings
1	Complete Overhaul Kit	<b>FP-855PREMPOH</b>		Premium Plus; 4 Rings; With Front & Rear Seals and Upper & Lower Gasket Sets

# Engine Kit Bill of Material



Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>FP-IFKISB624V</b>			<b>FP-IFKISCQSC</b> (cont'd.)			<b>FP-IFK267E</b> (cont'd.)			<b>FP-IFK336E</b> (cont'd.)		
(1)	FP-3958165	Oil Pan Gasket	(1)	FP-4089758	Head Gasket Set	(4)	FP-A43177	Connecting Rod Bearing Pair	(4)	FP-A41902	Connecting Rod Bearing Pair
(1)	FP-3959052	Oil Pan Gasket	(1)	FP-4089958	Head Gasket Set	(1)	FP-7039M	Main Bearing Set	(4)	FP-A43173	Connecting Rod Bearing Pair
(6)	FP-PK0781	Piston w/Pin, Retainer & Rings	<b>FP-IFK188E</b>			(1)	FP-7039M10	Main Bearing Set	(4)	FP-A4317340	Connecting Rod Bearing Pair
(6)	FP-PK0782	Piston w/Pin, Retainer & Rings	(4)	FP-A37769	Cylinder Kit Complete	(1)	FP-7039M20	Main Bearing Set	(4)	FP-A43174	Connecting Rod Bearing Pair
(6)	FP-PK0783	Piston w/Pin, Retainer & Rings	(4)	FP-A46050	Connecting Rod Bearing Pair	(1)	FP-A62572S	Thrust Washer Set	(4)	FP-A43174	Connecting Rod Bearing Pair
(6)	FP-PK0784	Piston w/Pin, Retainer & Rings	(4)	FP-A46052	Connecting Rod Bearing Pair	(1)	FP-A62573S	Thrust Washer Set	(4)	FP-A43175	Connecting Rod Bearing Pair
(6)	FP-PK0785	Piston w/Pin, Retainer & Rings	(4)	FP-A46053	Connecting Rod Bearing Pair	(1)	FP-PGE267EC	Complete Overhaul Gasket Set	(4)	FP-A43176	Connecting Rod Bearing Pair
(6)	FP-PK0838	Piston w/Pin, Retainer & Rings	(4)	FP-A46054	Connecting Rod Bearing Pair	<b>FP-IFK267L</b>			(4)	FP-A43177	Connecting Rod Bearing Pair
(6)	FP-PK0839	Piston w/Pin, Retainer & Rings	(1)	FP-4397M	Main Bearing Set	(4)	FP-A1481351	Cylinder Kit Complete	(4)	FP-A43173	Connecting Rod Bearing Pair
(6)	FP-PK0840	Piston w/Pin, Retainer & Rings	(1)	FP-4397M10	Main Bearing Set	(4)	FP-A43173	Connecting Rod Bearing Pair	(1)	FP-7039M	Main Bearing Set
(6)	FP-PK0841	Piston w/Pin, Retainer & Rings	(1)	FP-4397M20	Main Bearing Set	(4)	FP-A43175	Connecting Rod Bearing Pair	(1)	FP-7039M10	Main Bearing Set
(6)	FP-PK0842	Piston w/Pin, Retainer & Rings	(1)	FP-4397M30	Main Bearing Set	(4)	FP-A43176	Connecting Rod Bearing Pair	(1)	FP-7039M20	Main Bearing Set
(6)	FP-PK0842	Piston w/Pin, Retainer & Rings	(1)	FP-PGE188EC	Complete Overhaul Gasket Set	(4)	FP-A43177	Connecting Rod Bearing Pair	(2)	FP-A62572	Thrust Washer Component
(6)	FP-PK9183	Piston w/Pin, Retainer & Rings	(1)	FP-A189524	Oil Pan Gasket Set	(1)	FP-7039M	Main Bearing Set	(2)	FP-A62573	Thrust Washer Component
(6)	FP-PK9183	Piston w/Pin, Retainer & Rings	<b>FP-IFK188L</b>			(1)	FP-PGE336EC	Complete Overhaul Gasket Set	(1)	FP-PGE336EC	Complete Overhaul Gasket Set
(6)	FP-PK9184	Piston w/Pin, Retainer & Rings	(4)	FP-A151995	Cylinder Kit Complete	<b>FP-IFK336L</b>			(4)	FP-A1521771	Cylinder Kit Complete
(6)	FP-PK9184	Piston w/Pin, Retainer & Rings	(4)	FP-A46050	Connecting Rod Bearing Pair	(4)	FP-A166134	Cylinder Kit Complete	(4)	FP-A166134	Cylinder Kit Complete
(6)	FP-PK9185	Piston w/Pin, Retainer & Rings	(4)	FP-A46052	Connecting Rod Bearing Pair	(4)	FP-CK51233638	Cylinder Kit Complete	(4)	FP-CK51233638	Cylinder Kit Complete
(6)	FP-PK9186	Piston w/Pin, Retainer & Rings	(4)	FP-A46053	Connecting Rod Bearing Pair	(4)	FP-AA1758	Connecting Rod Bearing Pair	(4)	FP-AA1758	Connecting Rod Bearing Pair
(6)	FP-PK9186	Piston w/Pin, Retainer & Rings	(4)	FP-A46053	Connecting Rod Bearing Pair	(4)	FP-A41900	Connecting Rod Bearing Pair	(4)	FP-A41900	Connecting Rod Bearing Pair
(6)	FP-PK9259	Piston w/Pin, Retainer & Rings	(4)	FP-A46054	Connecting Rod Bearing Pair	(4)	FP-A41901	Connecting Rod Bearing Pair	(4)	FP-A41901	Connecting Rod Bearing Pair
(6)	FP-PK9260	Piston w/Pin, Retainer & Rings	(1)	FP-4397M	Main Bearing Set	(4)	FP-A41902	Connecting Rod Bearing Pair	(4)	FP-A41902	Connecting Rod Bearing Pair
(6)	FP-PK9260	Piston w/Pin, Retainer & Rings	(1)	FP-4397M10	Main Bearing Set	(4)	FP-A41902	Connecting Rod Bearing Pair	(4)	FP-A41902	Connecting Rod Bearing Pair
(6)	FP-PK9669	Piston w/Pin, Retainer & Rings	(1)	FP-4397M20	Main Bearing Set	(4)	FP-A43173	Connecting Rod Bearing Pair	(4)	FP-A43173	Connecting Rod Bearing Pair
(6)	FP-PK9670	Piston w/Pin, Retainer & Rings	(1)	FP-4397M30	Main Bearing Set	(4)	FP-A43174	Connecting Rod Bearing Pair	(4)	FP-A4317340	Connecting Rod Bearing Pair
(6)	FP-PK9671	Piston w/Pin, Retainer & Rings	(1)	FP-PGE207C	Complete Overhaul Gasket Set	(4)	FP-A43174	Connecting Rod Bearing Pair	(4)	FP-A4317340	Connecting Rod Bearing Pair
(12)	FP-3901171	Rod Bearing Half Upper/Lower	(1)	FP-A189524	Oil Pan Gasket Set	(4)	FP-A43175	Connecting Rod Bearing Pair	(4)	FP-A43174	Connecting Rod Bearing Pair
(12)	FP-3901172	Rod Bearing Half Upper/Lower	<b>FP-IFK207E</b>			(4)	FP-A43175	Connecting Rod Bearing Pair	(4)	FP-A43175	Connecting Rod Bearing Pair
(12)	FP-3901173	Rod Bearing Half Upper/Lower	(4)	FP-A151991	Cylinder Kit Complete	(4)	FP-A43177	Connecting Rod Bearing Pair	(4)	FP-A43175	Connecting Rod Bearing Pair
(12)	FP-3901174	Rod Bearing Half Upper/Lower	(4)	FP-A50975	Connecting Rod Bearing Pair	(1)	FP-7039M	Main Bearing Set	(4)	FP-A43176	Connecting Rod Bearing Pair
(12)	FP-3939859	Rod Bearing Half Upper/Lower	(4)	FP-A50977	Connecting Rod Bearing Pair	(1)	FP-7039M10	Main Bearing Set	(4)	FP-A43176	Connecting Rod Bearing Pair
(6)	FP-3967060	Connecting Rod Bearing Pair	(4)	FP-A50978	Connecting Rod Bearing Pair	(1)	FP-7039M20	Main Bearing Set	(4)	FP-A43177	Connecting Rod Bearing Pair
(6)	FP-3967061	Connecting Rod Bearing Pair	(4)	FP-A50978	Connecting Rod Bearing Pair	(2)	FP-A62572	Thrust Washer Component	(1)	FP-7039M	Main Bearing Set
(6)	FP-3967062	Connecting Rod Bearing Pair	(4)	FP-A50979	Connecting Rod Bearing Pair	(2)	FP-A62573	Thrust Washer Component	(1)	FP-7039M10	Main Bearing Set
(6)	FP-3967063	Connecting Rod Bearing Pair	(1)	FP-4397M	Main Bearing Set	(1)	FP-PGE301EC	Complete Overhaul Gasket Set	(1)	FP-7039M20	Main Bearing Set
(6)	FP-3967063	Connecting Rod Bearing Pair	(1)	FP-4397M10	Main Bearing Set	(1)	FP-PGE301EC	Complete Overhaul Gasket Set	(2)	FP-A62572	Thrust Washer Component
(6)	FP-3967064	Connecting Rod Bearing Pair	(1)	FP-4397M20	Main Bearing Set	(1)	FP-A189510	Oil Pan Gasket Set	(2)	FP-A62573	Thrust Washer Component
(6)	FP-3967064	Connecting Rod Bearing Pair	(1)	FP-4397M30	Main Bearing Set	<b>FP-IFK301E</b>			(1)	FP-PGE336LC	Complete Overhaul Gasket Set
(1)	FP-3802070	Main Bearing Set	(1)	FP-PGE207C	Complete Overhaul Gasket Set	(4)	FP-A43177	Connecting Rod Bearing Pair	<b>FP-IFK401E</b>		
(1)	FP-3802071	Main Bearing Set	(1)	FP-A189524	Oil Pan Gasket Set	(4)	FP-A43177	Connecting Rod Bearing Pair	(6)	FP-A404791	Cylinder Kit Complete
(1)	FP-3802072	Main Bearing Set	<b>FP-IFK207L</b>			(4)	FP-A4317340	Connecting Rod Bearing Pair	(6)	FP-A418211	Cylinder Kit Complete
(1)	FP-3802073	Main Bearing Set	(4)	FP-A46382	Cylinder Kit Complete	(4)	FP-A4317340	Connecting Rod Bearing Pair	(6)	FP-A43173	Connecting Rod Bearing Pair
(1)	FP-3802074	Main Bearing Set	(4)	FP-A50975	Connecting Rod Bearing Pair	(4)	FP-A43174	Connecting Rod Bearing Pair	(6)	FP-A43175	Connecting Rod Bearing Pair
(1)	FP-4090035	Head Gasket Set	(4)	FP-A50975	Connecting Rod Bearing Pair	(4)	FP-A43175	Connecting Rod Bearing Pair	(6)	FP-A43176	Connecting Rod Bearing Pair
<b>FP-IFKISCQSC</b>			(4)	FP-A50977	Connecting Rod Bearing Pair	(4)	FP-A43176	Connecting Rod Bearing Pair	(6)	FP-A43177	Connecting Rod Bearing Pair
(1)	FP-3938160	Oil Pan Gasket	(4)	FP-A50978	Connecting Rod Bearing Pair	(1)	FP-7039M	Main Bearing Set	(1)	FP-7040M	Main Bearing Set
(6)	FP-LK03208095	Cylinder Kit Complete	(1)	FP-4397M	Main Bearing Set	(1)	FP-7039M10	Main Bearing Set	(1)	FP-7040M10	Main Bearing Set
(6)	FP-LK51908095	Cylinder Kit Complete	(1)	FP-4397M10	Main Bearing Set	(1)	FP-7039M20	Main Bearing Set	(1)	FP-7040M20	Main Bearing Set
(6)	FP-3800319	Cylinder Kit Complete	(1)	FP-4397M20	Main Bearing Set	(2)	FP-A62572	Thrust Washer Component	(1)	FP-A62572S	Thrust Washer Set
(6)	FP-3800321	Cylinder Kit Complete	(1)	FP-4397M30	Main Bearing Set	(2)	FP-A62573	Thrust Washer Component	(1)	FP-A62573S	Thrust Washer Set
(12)	FP-3901430	Rod Bearing Half Upper/Lower	(1)	FP-PGE207C	Complete Overhaul Gasket Set	(1)	FP-PGE301LC	Complete Overhaul Gasket Set	(1)	FP-PGE401CK	Complete Overhaul Gasket Set
(12)	FP-3901431	Rod Bearing Half Upper/Lower	(1)	FP-A189524	Oil Pan Gasket Set	(1)	FP-A189510	Oil Pan Gasket Set	(1)	FP-PGE401DM	Complete Overhaul Gasket Set
(12)	FP-3901432	Rod Bearing Half Upper/Lower	<b>FP-IFK267E</b>			(4)	FP-A460251	Cylinder Kit Complete	<b>FP-IFK401L</b>		
(12)	FP-3901433	Rod Bearing Half Upper/Lower	(4)	FP-A404791	Cylinder Kit Complete	(4)	FP-CK24852185	Cylinder Kit Complete	(6)	FP-A1481351	Cylinder Kit Complete
(12)	FP-3901434	Rod Bearing Half Upper/Lower	(4)	FP-A418211	Cylinder Kit Complete	(4)	FP-CK61222185	Cylinder Kit Complete	(6)	FP-A43173	Connecting Rod Bearing Pair
(1)	FP-3945917	Main Bearing Set	(4)	FP-A43173	Connecting Rod Bearing Pair	(4)	FP-A41758	Connecting Rod Bearing Pair	(6)	FP-A43175	Connecting Rod Bearing Pair
(1)	FP-3945918	Main Bearing Set	(4)	FP-A43175	Connecting Rod Bearing Pair	(4)	FP-A41900	Connecting Rod Bearing Pair	(6)	FP-A43176	Connecting Rod Bearing Pair
(1)	FP-3945919	Main Bearing Set	(4)	FP-A43176	Connecting Rod Bearing Pair	(4)	FP-A41901	Connecting Rod Bearing Pair	(6)	FP-A43177	Connecting Rod Bearing Pair
		(cont'd. next column)			(cont'd. next column)			(cont'd. next column)			(cont'd. next page)

Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
<b>FP-IFK401L</b> (cont'd.) (1) <b>FP-7040M</b> Main Bearing Set (1) <b>FP-7040M10</b> Main Bearing Set (1) <b>FP-7040M20</b> Main Bearing Set (1) <b>FP-A62572S</b> Thrust Washer Set (1) <b>FP-A62573S</b> Thrust Washer Set (1) <b>FP-PGE401LC</b> Complete Overhaul Gasket Set			<b>FP-IFK504E</b> (cont'd.) (2) <b>FP-A62573</b> Thrust Washer Component (1) <b>FP-PGE504EC</b> Complete Overhaul Gasket Set			<b>FP-L10PREMOH</b> (cont'd.) (12) <b>FP-3016760</b> Rod Bearing Half Upper/Lower (12) <b>FP-3016761</b> Rod Bearing Half Upper/Lower (12) <b>FP-3016762</b> Rod Bearing Half Upper/Lower (12) <b>FP-3016763</b> Rod Bearing Half Upper/Lower (1) <b>FP-4025120</b> Main Bearing Set (1) <b>FP-4025121</b> Main Bearing Set (1) <b>FP-4025122</b> Main Bearing Set (1) <b>FP-4025123</b> Main Bearing Set (1) <b>FP-4025125</b> Main Bearing Set (1) <b>FP-4025126</b> Main Bearing Set (1) <b>FP-4025127</b> Main Bearing Set (1) <b>FP-4025128</b> Main Bearing Set (1) <b>FP-4025155</b> Head Gasket Set (1) <b>FP-4089478</b> Head Gasket Set (1) <b>FP-3803404</b> Conversion Gasket Set (1) <b>FP-3882733PS</b> Oil Pan Gasket Set (1) <b>FP-3803894</b> Oil Seal Kit (1) <b>FP-3804304</b> Oil Seal Kit (1) <b>FP-3804744</b> Oil Seal Kit			<b>FP-OH6B59TA</b> (cont'd.) (12) <b>FP-3901173</b> Rod Bearing Half Upper/Lower (12) <b>FP-3901174</b> Rod Bearing Half Upper/Lower (12) <b>FP-3939859</b> Rod Bearing Half Upper/Lower (1) <b>FP-3802070</b> Main Bearing Set (1) <b>FP-3802071</b> Main Bearing Set (1) <b>FP-3802072</b> Main Bearing Set (1) <b>FP-3802073</b> Main Bearing Set (1) <b>FP-3802074</b> Main Bearing Set (1) <b>FP-3802363S</b> In-Frame Gasket Set		
<b>FP-IFK451E</b> (6) <b>FP-A429951</b> Cylinder Kit Complete (6) <b>FP-A43173</b> Connecting Rod Bearing Pair (6) <b>FP-A4317340</b> Connecting Rod Bearing Pair (6) <b>FP-A43174</b> Connecting Rod Bearing Pair (6) <b>FP-A43175</b> Connecting Rod Bearing Pair (6) <b>FP-A43176</b> Connecting Rod Bearing Pair (6) <b>FP-A43177</b> Connecting Rod Bearing Pair (6) <b>FP-5045M</b> Main Bearing Set (1) <b>FP-5045M10</b> Main Bearing Set (1) <b>FP-5045M20</b> Main Bearing Set (1) <b>FP-5047M</b> Main Bearing Set (1) <b>FP-5047M10</b> Main Bearing Set (1) <b>FP-5047M20</b> Main Bearing Set (1) <b>FP-PGE451EC</b> Complete Overhaul Gasket Set (1) <b>FP-A189521</b> Oil Pan Gasket Set			<b>FP-IFK504L</b> (6) <b>FP-A1521771</b> Cylinder Kit Complete (6) <b>FP-A166134</b> Cylinder Kit Complete (6) <b>FP-CK51233638</b> Cylinder Kit Complete (6) <b>FP-CK82353638</b> Cylinder Kit Complete (6) <b>FP-A41758</b> Connecting Rod Bearing Pair (6) <b>FP-A41900</b> Connecting Rod Bearing Pair (6) <b>FP-A41901</b> Connecting Rod Bearing Pair (6) <b>FP-A41902</b> Connecting Rod Bearing Pair (6) <b>FP-A43173</b> Connecting Rod Bearing Pair (6) <b>FP-A4317340</b> Connecting Rod Bearing Pair (6) <b>FP-A43174</b> Connecting Rod Bearing Pair (6) <b>FP-A43175</b> Connecting Rod Bearing Pair (6) <b>FP-A43176</b> Connecting Rod Bearing Pair (6) <b>FP-A43177</b> Connecting Rod Bearing Pair (1) <b>FP-5049M</b> Main Bearing Set (1) <b>FP-5049M10</b> Main Bearing Set (1) <b>FP-5049M20</b> Main Bearing Set (1) <b>FP-5049M30</b> Main Bearing Set (1) <b>FP-7040M</b> Main Bearing Set (1) <b>FP-7040M10</b> Main Bearing Set (1) <b>FP-7040M20</b> Main Bearing Set (2) <b>FP-A62572</b> Thrust Washer Component (1) <b>FP-PGE504LC</b> Complete Overhaul Gasket Set			<b>FP-OHISCQSC</b> (6) <b>FP-LK03208095</b> Cylinder Kit Complete (6) <b>FP-3800319</b> Cylinder Kit Complete (6) <b>FP-3800321</b> Cylinder Kit Complete (12) <b>FP-3901430</b> Rod Bearing Half Upper/Lower (12) <b>FP-3901431</b> Rod Bearing Half Upper/Lower (12) <b>FP-3901432</b> Rod Bearing Half Upper/Lower (12) <b>FP-3901433</b> Rod Bearing Half Upper/Lower (12) <b>FP-3901434</b> Rod Bearing Half Upper/Lower (1) <b>FP-3945917</b> Main Bearing Set (1) <b>FP-3945918</b> Main Bearing Set (1) <b>FP-3945919</b> Main Bearing Set (1) <b>FP-4089958</b> Head Gasket Set (1) <b>FP-3800343</b> Conversion Gasket Set			<b>FP-PK12742</b> (4) <b>FP-3906223WP</b> Piston Kit w/Pin & Retainers (4) <b>FP-3802040</b> Ring Set, Single Cylinder		
<b>FP-IFK451L</b> (6) <b>FP-A1514081</b> Cylinder Kit Complete (6) <b>FP-A460221</b> Cylinder Kit Complete (6) <b>FP-A43173</b> Connecting Rod Bearing Pair (6) <b>FP-A4317340</b> Connecting Rod Bearing Pair (6) <b>FP-A43174</b> Connecting Rod Bearing Pair (6) <b>FP-A43175</b> Connecting Rod Bearing Pair (6) <b>FP-A43176</b> Connecting Rod Bearing Pair (6) <b>FP-A43177</b> Connecting Rod Bearing Pair (1) <b>FP-5045M</b> Main Bearing Set (1) <b>FP-5045M10</b> Main Bearing Set (1) <b>FP-5045M20</b> Main Bearing Set (1) <b>FP-5047M</b> Main Bearing Set (1) <b>FP-5047M10</b> Main Bearing Set (1) <b>FP-5047M20</b> Main Bearing Set (1) <b>FP-PGE451LC</b> Complete Overhaul Gasket Set (1) <b>FP-A189521</b> Oil Pan Gasket Set			<b>FP-KST2684A</b> (4) <b>FP-SL2684</b> Sleeve Assembly (4) <b>FP-9320CPA</b> Connecting Rod Bearing Pair (1) <b>FP-4154M</b> Main Bearing Set (1) <b>FP-2601339</b> Gasket Kit			<b>FP-OH6B59T</b> (6) <b>FP-3907163WP</b> Piston Kit w/Pin & Retainers (6) <b>FP-3908815WP</b> Piston Kit w/Pin & Retainers (6) <b>FP-3908816WP</b> Piston Kit w/Pin & Retainers (6) <b>FP-3802230</b> Ring Set, Single Cylinder (6) <b>FP-3802232</b> Ring Set, Single Cylinder (6) <b>FP-3802234</b> Ring Set, Single Cylinder (12) <b>FP-3901171</b> Rod Bearing Half Upper/Lower (12) <b>FP-3901172</b> Rod Bearing Half Upper/Lower (12) <b>FP-3901173</b> Rod Bearing Half Upper/Lower (12) <b>FP-3901174</b> Rod Bearing Half Upper/Lower (12) <b>FP-3939859</b> Rod Bearing Half Upper/Lower (1) <b>FP-3802070</b> Main Bearing Set (1) <b>FP-3802071</b> Main Bearing Set (1) <b>FP-3802072</b> Main Bearing Set (1) <b>FP-3802073</b> Main Bearing Set (1) <b>FP-3802074</b> Main Bearing Set (1) <b>FP-3802363S</b> In-Frame Gasket Set			<b>FP-PK12742B</b> (6) <b>FP-3906223WP</b> Piston Kit w/Pin & Retainers (6) <b>FP-3802040</b> Ring Set, Single Cylinder		
<b>FP-IFK504E</b> (6) <b>FP-A460251</b> Cylinder Kit Complete (6) <b>FP-CK24852185</b> Cylinder Kit Complete (6) <b>FP-CK61222185</b> Cylinder Kit Complete (6) <b>FP-A41758</b> Connecting Rod Bearing Pair (6) <b>FP-A41900</b> Connecting Rod Bearing Pair (6) <b>FP-A41901</b> Connecting Rod Bearing Pair (6) <b>FP-A41902</b> Connecting Rod Bearing Pair (6) <b>FP-A43173</b> Connecting Rod Bearing Pair (6) <b>FP-A4317340</b> Connecting Rod Bearing Pair (6) <b>FP-A43174</b> Connecting Rod Bearing Pair (6) <b>FP-A43175</b> Connecting Rod Bearing Pair (6) <b>FP-A43176</b> Connecting Rod Bearing Pair (6) <b>FP-A43177</b> Connecting Rod Bearing Pair (1) <b>FP-7040M</b> Main Bearing Set (1) <b>FP-7040M10</b> Main Bearing Set (1) <b>FP-7040M20</b> Main Bearing Set (2) <b>FP-A62572</b> Thrust Washer Component			<b>FP-KST2684C</b> (4) <b>FP-SL2684</b> Sleeve Assembly (4) <b>FP-A46050</b> Connecting Rod Bearing Pair (1) <b>FP-4149M</b> Main Bearing Set (1) <b>FP-2601339</b> Gasket Kit			<b>FP-OH6B59TA</b> (6) <b>FP-3907156WP</b> Piston Kit w/Pin & Retainers (6) <b>FP-3907157WP</b> Piston Kit w/Pin & Retainers (6) <b>FP-3907158WP</b> Piston Kit w/Pin & Retainers (6) <b>FP-3802230</b> Ring Set, Single Cylinder (6) <b>FP-3802232</b> Ring Set, Single Cylinder (6) <b>FP-3802234</b> Ring Set, Single Cylinder (12) <b>FP-3901171</b> Rod Bearing Half Upper/Lower (12) <b>FP-3901172</b> Rod Bearing Half Upper/Lower			<b>FP-PK22742A</b> (1) <b>FP-PK22742A</b> Piston Kit w/Rings & Bearings		
<b>FP-IFK504E</b> (cont'd. next column)			<b>FP-L10PREM</b> (1) <b>FP-3882433PS</b> Oil Pan Gasket Set (1) <b>FP-3882733PS</b> Oil Pan Gasket Set (6) <b>FP-3800800</b> Cylinder Kit Complete (6) <b>FP-3800801</b> Cylinder Kit Complete (6) <b>FP-3803974</b> Cylinder Kit Complete (12) <b>FP-3016760</b> Rod Bearing Half Upper/Lower (12) <b>FP-3016761</b> Rod Bearing Half Upper/Lower (12) <b>FP-3016762</b> Rod Bearing Half Upper/Lower (12) <b>FP-3016763</b> Rod Bearing Half Upper/Lower (1) <b>FP-4025120</b> Main Bearing Set (1) <b>FP-4025121</b> Main Bearing Set (1) <b>FP-4025122</b> Main Bearing Set (1) <b>FP-4025123</b> Main Bearing Set (1) <b>FP-4025125</b> Main Bearing Set (1) <b>FP-4025126</b> Main Bearing Set (1) <b>FP-4025127</b> Main Bearing Set (1) <b>FP-4025128</b> Main Bearing Set (1) <b>FP-4025155</b> Head Gasket Set (1) <b>FP-4089478</b> Head Gasket Set			<b>FP-PK22742B</b> (1) <b>FP-PK22742B</b> Piston Kit w/Rings & Bearings			<b>FP-4B39PREM</b> (4) <b>FP-3802030</b> Piston w/Retainer & Rings (4) <b>FP-3802032</b> Piston w/Retainer & Rings (4) <b>FP-3802034</b> Piston w/Retainer & Rings (4) <b>FP-3802060</b> Piston w/Retainer & Rings (4) <b>FP-3802062</b> Piston w/Retainer & Rings (4) <b>FP-3802064</b> Piston w/Retainer & Rings (4) <b>FP-3802100</b> Piston w/Retainer & Rings (4) <b>FP-3802102</b> Piston w/Retainer & Rings (4) <b>FP-3802104</b> Piston w/Retainer & Rings (4) <b>FP-3802132</b> Piston w/Retainer & Rings (4) <b>FP-3802134</b> Piston w/Retainer & Rings (4) <b>FP-3802160</b> Piston w/Retainer & Rings (4) <b>FP-3802170</b> Piston w/Retainer & Rings (4) <b>FP-3802172</b> Piston w/Retainer & Rings (4) <b>FP-3802148</b> Piston Pin (4) <b>FP-3934047</b> Rod Bearing Half Upper/Lower (8) <b>FP-3901172</b> Rod Bearing Half Upper/Lower (8) <b>FP-3901173</b> Rod Bearing Half Upper/Lower (8) <b>FP-3901174</b> Rod Bearing Half Upper/Lower (8) <b>FP-3939859</b> Rod Bearing Half Upper/Lower (1) <b>FP-3802010</b> Main Bearing Set (1) <b>FP-3802011</b> Main Bearing Set (1) <b>FP-3802012</b> Main Bearing Set (1) <b>FP-3802013</b> Main Bearing Set (1) <b>FP-3802014</b> Main Bearing Set (1) <b>FP-3804896S</b> In-Frame Gasket Set		
<b>FP-L10PREMOH</b> (cont'd. next column)			<b>FP-L10PREM</b> (cont'd. next column)			<b>FP-OH6B59TA</b> (cont'd. next column)			<b>FP-4B39PREML</b> (4) <b>FP-3802248</b> Piston w/Retainer & Rings (4) <b>FP-3802249</b> Piston w/Retainer & Rings (4) <b>FP-3802250</b> Piston w/Retainer & Rings (4) <b>FP-3802251</b> Piston w/Retainer & Rings (4) <b>FP-3802252</b> Piston w/Retainer & Rings (4) <b>FP-3802253</b> Piston w/Retainer & Rings (4) <b>FP-3802487</b> Piston w/Retainer & Rings (4) <b>FP-3802493</b> Piston w/Retainer & Rings (4) <b>FP-3802495</b> Piston w/Retainer & Rings (4) <b>FP-3802562</b> Piston w/Retainer & Rings (4) <b>FP-3802564</b> Piston w/Retainer & Rings (4) <b>FP-3802565</b> Piston w/Retainer & Rings (4) <b>FP-3934047</b> Piston Pin (8) <b>FP-3901171</b> Rod Bearing Half Upper/Lower (8) <b>FP-3901172</b> Rod Bearing Half Upper/Lower		



Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
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(6)	FP-3801769	Cylinder Kit Complete	(6)	FP-3802565	Piston w/Retainer & Rings						
(6)	FP-3801771	Cylinder Kit Complete	(6)	FP-3802747	Piston w/Retainer & Rings						
(6)	FP-3801772	Cylinder Kit Complete	(6)	FP-3934047	Piston Pin						
(6)	FP-3801775	Cylinder Kit Complete	(12)	FP-3901171	Rod Bearing Half Upper/Lower						
(6)	FP-3801777	Cylinder Kit Complete									
(6)	FP-3801778	Cylinder Kit Complete	(12)	FP-3901172	Rod Bearing Half Upper/Lower						
(6)	FP-3801782	Cylinder Kit Complete									
(6)	FP-3801783	Cylinder Kit Complete	(12)	FP-3901173	Rod Bearing Half Upper/Lower						
(6)	FP-3801796	Cylinder Kit Complete									
(6)	FP-3801797	Cylinder Kit Complete	(12)	FP-3901174	Rod Bearing Half Upper/Lower						
(6)	FP-3801798	Cylinder Kit Complete									
(6)	FP-3801811	Cylinder Kit Complete	(12)	FP-3939859	Rod Bearing Half Upper/Lower						
(6)	FP-3801873	Cylinder Kit Complete									
(6)	FP-3801875	Cylinder Kit Complete	(1)	FP-3802070	Main Bearing Set						
(6)	FP-3801920	Cylinder Kit Complete	(1)	FP-3802071	Main Bearing Set						
(6)	FP-3803209	Cylinder Kit Complete	(1)	FP-3802072	Main Bearing Set						
(6)	FP-3803210	Cylinder Kit Complete	(1)	FP-3802073	Main Bearing Set						
(6)	FP-3803211	Cylinder Kit Complete	(1)	FP-3802363	Head Gasket Set						
(6)	FP-3803212	Cylinder Kit Complete	(1)	FP-3804897	Head Gasket Set						
(6)	FP-3803213	Cylinder Kit Complete	(1)	FP-4089649	Head Gasket Set						
(6)	FP-3803214	Cylinder Kit Complete	(1)	FP-3802376	Conversion Gasket Set						
(6)	FP-3803221	Cylinder Kit Complete									
(6)	FP-3803223	Cylinder Kit Complete	<b>PK1-2742</b>								
(6)	FP-3803226	Cylinder Kit Complete	(4)	FP-3906223WP	Piston Kit w/Pin & Retainers						
(6)	FP-3803228	Cylinder Kit Complete	(4)	FP-3802040	Ring Set, Single Cylinder						
(12)	FP-203660	Rod Bearing Half Upper/Lower									
(12)	FP-203661	Rod Bearing Half Upper/Lower	<b>PK1-2743</b>								
(12)	FP-203662	Rod Bearing Half Upper/Lower	(4)	2743PN	Cast Piston						
(12)	FP-203663	Rod Bearing Half Upper/Lower	(4)	E-623KC	Premium Piston Ring Set						
(12)	FP-203664	Rod Bearing Half Upper/Lower	<b>PK1-2744</b>								
(12)	FP-214950	Rod Bearing Half Upper/Lower	(4)	2744PN	Cast Piston						
(12)	FP-214951	Rod Bearing Half Upper/Lower	(4)	E-623KC	Premium Piston Ring Set						
(12)	FP-214952	Rod Bearing Half Upper/Lower	<b>PK2-2742A</b>								
(12)	FP-214953	Rod Bearing Half Upper/Lower	(4)	4205CP	Connecting Rod Bearing Pair						
(12)	FP-214954	Rod Bearing Half Upper/Lower	(1)	FP-3802010	Main Bearing Set						
(1)	FP-3801260	Main Bearing Set	(4)	FP-3906223WP	Piston Kit w/Pin & Retainers						
(1)	FP-3801261	Main Bearing Set	(4)	FP-3802040	Ring Set, Single Cylinder						
(1)	FP-3801262	Main Bearing Set	<b>PK2-2743A</b>								
(1)	FP-3801263	Main Bearing Set	(4)	2743PN	Cast Piston						
(1)	FP-3801264	Main Bearing Set	(4)	E-623KC	Premium Piston Ring Set						
(1)	FP-3801332	Head Gasket Set	(4)	4205CP	Connecting Rod Bearing Pair						
(1)	FP-3801348	Head Gasket Set	(1)	FP-3802010	Main Bearing Set						
(1)	FP-3801451	Head Gasket Set	<b>PK2-2744A</b>								
(1)	FP-380145110	Head Gasket Set	(4)	2744PN	Cast Piston						
(1)	FP-3801754	Head Gasket Set	(4)	E-623KC	Premium Piston Ring Set						
(1)	FP-380175410	Head Gasket Set	(4)	4205CP	Connecting Rod Bearing Pair						
(1)	FP-3803040	Head Gasket Set	(1)	FP-3802010	Main Bearing Set						
(1)	FP-380304010	Head Gasket Set									
(1)	FP-3804276	Head Gasket Set									
(1)	FP-3014459	Conversion Gasket Set									
(1)	FP-3801235	Conversion Gasket Set									
(1)	FP-3801454	Conversion Gasket Set									
(1)	FP-3801463	Conversion Gasket Set									
(1)	FP-3801464	Conversion Gasket Set									
(1)	FP-3801468	Conversion Gasket Set									
(1)	FP-3801469	Conversion Gasket Set									
(1)	FP-3801529	Conversion Gasket Set									
(1)	FP-3803041	Conversion Gasket Set									
<b>FP6B5.9PREM-OHL</b>											
(6)	FP-3802248	Piston w/Retainer & Rings									
(6)	FP-3802249	Piston w/Retainer & Rings									
(6)	FP-3802250	Piston w/Retainer & Rings									
(6)	FP-3802251	Piston w/Retainer & Rings									
(6)	FP-3802252	Piston w/Retainer & Rings									
(6)	FP-3802253	Piston w/Retainer & Rings									
(6)	FP-3802487	Piston w/Retainer & Rings									
(6)	FP-3802489	Piston w/Retainer & Rings									
(6)	FP-3802490	Piston w/Retainer & Rings									
(6)	FP-3802493	Piston w/Retainer & Rings									
(6)	FP-3802495	Piston w/Retainer & Rings									
(6)	FP-3802562	Piston w/Retainer & Rings									
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# NOTES

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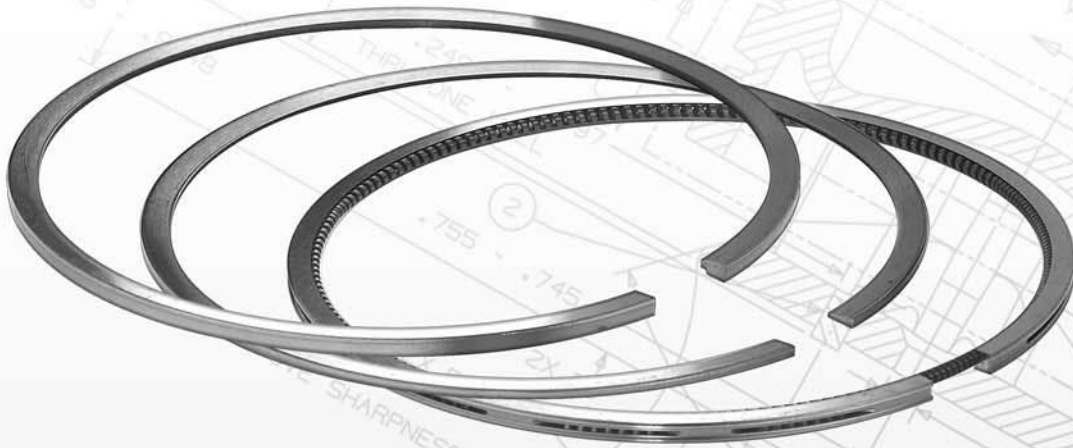
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## Cummins Ring Set Instructions

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### **FP-3802230 Ring Set Instructions Standard (B-Series)**

The fire ring, or top ring, is a bright colored keystone ring with a green paint dot marked "top" & "FP8315". The compression ring, or second ring, is a black chamfered ring with a red paint dot marked "top" and "FP2286". Install with the chamfer facing up. The oil ring marked "FP3384" and expander make up the oil control or third ring. The expander gap should be installed 180 degrees from the oil control ring gap. All ring gaps should be installed 90 degrees apart.

### **FP-3802232 Ring Set Instructions .50mm Oversize (B-Series)**

The fire ring, or top ring, is a bright colored keystone ring with a yellow paint dot marked "top" & "FP9050". The compression ring, or 2nd ring, is black chamfered ring with a yellow paint dot marked "top" & "FP4347". Install with the chamfer facing up. The oil ring marked "FP4349" and expander make up the oil control or 3rd ring. The expander gap should be installed 180 degrees from the oil control ring gap. All ring gaps should be installed 90 degrees apart.

### **FP-3802234 Ring Set Instructions 1.00mm Oversize (B Series)**

The fire ring, or top ring, is a bright colored keystone ring with a blue paint dot marked "top" and "FP9051". The compression ring, or 2nd ring, is a black chamfered ring with a blue paint dot marked "top" and "FP4348". Install with the chamfer facing up. The oil ring marked "FP4350" and expander make up the oil control or 3rd ring. The expander gap should be installed 180 degrees from the oil control ring gap. All ring gaps should be installed 90 degrees apart.

### **FP-3802429 Ring Set Instructions (6C8.3)**

The fire ring, or top ring, is a bright colored keystone ring with a step marked "FP up". Install with the step facing up. The compression or 2nd ring, is a narrower black keystone ring with a step marked "FP up". Install with the step facing down. The oil ring marked "FP" and the expander, make up the oil control or 3rd ring. The expander gap should be installed 180 degrees from the oil control ring gap. All ring gaps should be 90 degrees apart.



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# NOTES

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# Valve Stem Seal Identification 5.9L & 6.7L ISB Engines

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## Cummins has made changes to the valve stem seals for ISB engines.

All 24 valve ISB engines utilizing the VP44 injection pump use intake valve stem seal part number FP-3942989 and contain a *Yellow* Viton center.

The exhaust valve stem seal part number FP-3945438 contains a *Green* Viton center.

Both seals are used in engines built between 1998 - 2002.

Engine serial numbers 46239408 & below.

### ISB Engine Utilizing VP44 Injection Pump



**Intake Valve Stem Seal**  
Yellow Viton® Center  
Part No. FP-3942989



**Exhaust Valve Stem Seal**  
Green Viton® Center  
Part No. FP-3945438

## Beginning in 2003 thru 2009, engines with HPCR utilized a "Top Hat" design.

The intake valve stem seal part number is FP-3955393 and contains a *Yellow* Viton center.

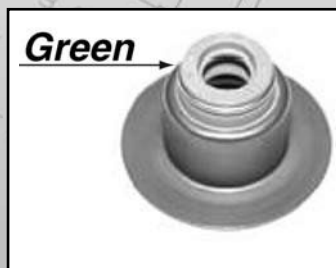
The exhaust valve stem seal part number FP-3955394 contains a *Green* Viton center.

Engine serial numbers 46239409 & above.

### ISB Engines with HPCR 2003-2009 Top Hat Design



**Intake Valve Stem Seal**  
Yellow Viton® Center  
Part No. FP-3955393



**Exhaust Valve Stem Seal**  
Green Viton® Center  
Part No. FP-3955394

See catalog inside back cover for the FP Diesel Smart Tip covering Cummins ISB Engine Valve Stem Seals

Viton is a registered trademark of DuPont Performance Elastomers L.L.C.

## Specialty Gasket Sets

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Available	Part Number	Engine	Description	Comment
✓	FP-PGE188EC	4-188	Overhaul Gasket Set	4-188 Small Flange
✓	FP-PGE207C	4-188	Overhaul Gasket Set	4-188 Wide Flange
✓	FP-PGE207C	4-207	Overhaul Gasket Set	4-207 Early & Late
✓	FP-PGE301EC	4-301	Overhaul Gasket Set	4-301D, Early
✓	FP-PGE301LC	4-301	Overhaul Gasket Set	4-301BD, Late
✓	FP-PGE336EC	4-336	Overhaul Gasket Set	4-336D, Early
✓	FP-PGE336LC	4-336	Overhaul Gasket Set	4-336BD, Late
✓	FP-PGE451EC	6-451	Overhaul Gasket Set	6-451D, Early
✓	FP-PGE451LC	6-451	Overhaul Gasket Set	6-451BD, Late
✓	FP-PGE504EC	6-504	Overhaul Gasket Set	6-504D, Early
✓	FP-PGE504LC	6-504	Overhaul Gasket Set	6-504BD, Late
✓	FP-1349118C1	4-188	Valve Grind Set	4-188 Early Small Flange
✓	FP-A189543	4-188/4-207	Valve Grind Set	4-188 Late 4-207 Late
✓	FP-A189537	4-188/4-207	Cylinder Block Set	4-188 All
✓	FP-A44758	4-188/4-207	Oil Pan Set, Std Transmission	4-188 All
✓	FP-A189524	4-188/4-207	Oil Pan Set, Case-o-matic	
✓	FP-A189529	4-301	Valve Grind Set	4-301D, Early
✓	FP-A189549	4-301	Valve Grind Set	4-301BD, Late
✓	FP-A189517	4-301	Cylinder Block Set	4-301D, Early
✓	FP-A189538	4-301/6-451	Cylinder Block Set	4-301BD, 6-451BD
✓	FP-A42221	4-301	Oil Pan Set, Std Transmission	4-301BD, Late
✓	FP-A7616	4-301	Oil Pan Set	4-301 All
✓	FP-A189510	4-301	Oil Pan Set	Case-o-matic 4-301
✓	FP-A189547	4-336	Valve Grind Set	To ESN 2539000
✓	FP-A189546	4-336	Valve Grind Set	From ESN 2539001
✓	FP-A189538	4-336/6-504	Cylinder Block Set	All
✓	FP-A189533	4-336	Oil Pan Set	4-336 All
✓	FP-A189548	6-451	Valve Grind Set	6-451BD Late
✓	FP-A189534	6-451	Oil Pan Set	6-451 All
✓	FP-A189545	6-504	Valve Grind Set	To ESN 2539000
✓	FP-A189544	6-504	Valve Grind Set	From ESN 2539001
✓	FP-A189541	6-504	Oil Pan Set	All





## Cummins to Case Interchange

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Case OE Part No.	Cummins OE Part No.	FP Diesel No.
11370	202951	<b>FP-202951</b>
40602	202964	<b>FP-202964</b>
40602	T202964	<b>FP-202964</b>
40607	202964	<b>FP-202964</b>
40607	T202964	<b>FP-202964</b>
49383	134736	<b>FP-3010937</b>
49383	3010937	<b>FP-3010937</b>
3802040	3802040	<b>FP-3802040</b>
3802050	3802050	<b>FP-3802230</b>
3802050	3802230	<b>FP-3802230</b>
3802050	4638644	<b>FP-3802230</b>
87342670	3950549	<b>FP-3950549</b>
87343194	4089644	<b>FP-4089644</b>
01008D	202964	<b>FP-202964</b>
01008D	T202964	<b>FP-202964</b>
05727AB	202951	<b>FP-202951</b>
0789AB	S684	<b>FP-S684</b>
08569AB	134736	<b>FP-3010937</b>
08569AB	134736	<b>FP-3010937</b>
08569AB	3010937	<b>FP-3010937</b>
08569AB	3010937	<b>FP-3010937</b>
3031K	202951	<b>FP-202951</b>
677692C1	3900267	<b>FP-3900267</b>
689568C1	9272	<b>FP-9272</b>
689568C1	3900216	<b>FP-3920773</b>
689568C1	3920773	<b>FP-3920773</b>
A077441	3008400	<b>FP-3008400</b>
A155267	3901356	<b>FP-3901356</b>
A26413	S684	<b>FP-S684</b>
A27342	3049221	<b>FP-3049221</b>
A27355	212161	<b>FP-212161</b>
A27410	134736	<b>FP-3010937</b>
A27410	134736	<b>FP-3010937</b>
A27410	3010937	<b>FP-3010937</b>
A27410	3010937	<b>FP-3010937</b>

Case OE Part No.	Cummins OE Part No.	FP Diesel No.
A57708	106276	<b>FP-106276</b>
A57708	202967	<b>FP-202967</b>
A58899	3902102	<b>FP-3911941</b>
A58899	3911941	<b>FP-3911941</b>
A7623	109080	<b>FP-109080</b>
A77441	3008400	<b>FP-3008400</b>
A77705	3060912	<b>FP-3060912</b>
A77718	3800558	<b>FP-3800558</b>
A77754	3283569	<b>FP-3283569</b>
A77901	3800319	<b>FP-3800319</b>
A77970	3943367	<b>FP-3943367</b>
A78020	3800321	<b>FP-3800321</b>
F22582	106276	<b>FP-106276</b>
F22582	202967	<b>FP-202967</b>
F62075	3029820	<b>FP-3029820</b>
F62075	211177	<b>FP-211177</b>
F62075	3029820	<b>FP-3029820</b>
F8890	3063246	<b>FP-3063246</b>
J281721	3281721	<b>FP-3281721</b>
J283333	3283569	<b>FP-3283569</b>
J802820	3922598	<b>FP-3802820</b>
J802820	3802820	<b>FP-3802820</b>
J900267	3900267	<b>FP-3900267</b>
J900808	3900808	<b>FP-3900808</b>
J901356	3901356	<b>FP-3901356</b>
J902666	3930906	<b>FP-3930906</b>
J904374	3904374	<b>FP-3970880</b>
J905443	3905443	<b>FP-3905443</b>
J905443	3905443	<b>FP-3905443</b>
J905449	3905449	<b>FP-3905449</b>
J905595	3905595	<b>FP-3905595</b>
J906222	3906223	<b>FP-3906223</b>
J906359	3937142	<b>FP-3937142</b>



# Cummins to Case Interchange

*Global Technology Behind Every Part*

Case OE Part No.	Cummins OE Part No.	FP Diesel No.
J907156	3907156	<b>FP-3907156</b>
J907163	3907163	<b>FP-3907163</b>
J907177	3907177	<b>FP-3907177</b>
J907682	3935585	<b>FP-3935585</b>
J908096	3908096	<b>FP-3908096</b>
J909356	3909356	<b>FP-3909356</b>
J911342	3935585	<b>FP-3935585</b>
J911941	3911941	<b>FP-3911941</b>
J912220	3912220	<b>FP-3912220</b>
J913032	3913032	<b>FP-3913032</b>
J913192	3913192	<b>FP-3938655</b>
J913288	3913288	<b>FP-3938655</b>
J914301	3914301	<b>FP-3939353</b>
J914302	3914302	<b>FP-3914302</b>
J914308	3914308	<b>FP-3914308</b>
J914310	3914310	<b>FP-3914310</b>
J914310	3914310	<b>FP-3914310</b>
J914385	3914385	<b>FP-3914385</b>
J917779	3917779	<b>FP-3917779</b>
J917780	3917780	<b>FP-3917780</b>
J917892	3917892	<b>FP-3917892</b>
J918174	3918174	<b>FP-3918174</b>
J918332	3918332	<b>FP-3918332</b>
J918673	3918673	<b>FP-3918673</b>
J918779	3918779	<b>FP-3918779</b>
J919937	3919937	<b>FP-3919937</b>
J920174	3937142	<b>FP-3937142</b>
J921850	3935585	<b>FP-3935585</b>
J923331	3923331	<b>FP-3923331</b>
J924445	3924445	<b>FP-3924445</b>
J924446	3924446	<b>FP-3924446</b>
J924447	3924447	<b>FP-3924447</b>
J926760	3926760	<b>FP-3926760</b>

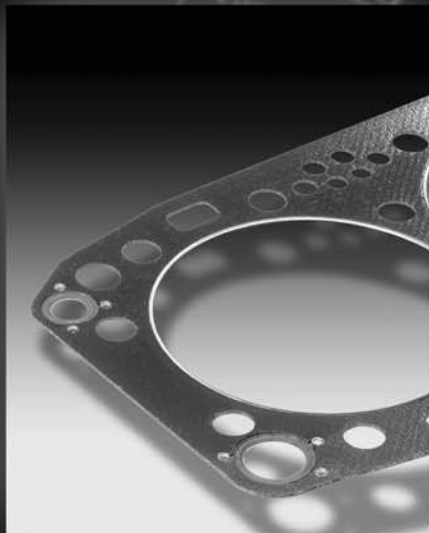
Case OE Part No.	Cummins OE Part No.	FP Diesel No.
J927154	3927154	<b>FP-3905443</b>
J927154	3905443	<b>FP-3905443</b>
J928168	3935585	<b>FP-3935585</b>
J928493	3928493	<b>FP-3928493</b>
J929011	3929011	<b>FP-3918332</b>
J929012	3929012	<b>FP-3932063</b>
J929792	3929792	<b>FP-3929792</b>
J930906	3930906	<b>FP-3930906</b>
J931019	3935585	<b>FP-3935585</b>
J931059	3939258	<b>FP-3939258</b>
J931351	3931351	<b>FP-3938156</b>
J932063	3932063	<b>FP-3932063</b>
J935585	3935585	<b>FP-3935585</b>
J937142	3937142	<b>FP-3937142</b>
J937142	3937142	<b>FP-3937142</b>
J937479	3937479	<b>FP-3937479</b>
J938159	3928493	<b>FP-3928493</b>
J938267	3935585	<b>FP-3935585</b>
J939258	3939258	<b>FP-3939258</b>
J942725	3942725	<b>FP-3942725</b>
J942915	3930907	<b>FP-3942915</b>
J942915	3942915	<b>FP-3942915</b>
J943191	3943191	<b>FP-3937479</b>
J943366	3943366	<b>FP-3943366</b>
J944293	3944293	<b>FP-3944293</b>
J944344	3948095	<b>FP-3948095</b>
J944646	3944646	<b>FP-3944646</b>
J944647	3944647	<b>FP-3992090</b>
J948095	3948095	<b>FP-3948095</b>
O8569AB	134736	<b>FP-3010937</b>
O8569AB	3010937	<b>FP-3010937</b>
V14656	212603	<b>FP-212603</b>
XA15821	106276	<b>FP-106276</b>
XA15821	202967	<b>FP-202967</b>
XA21243	106276	<b>FP-106276</b>
XA21243	202967	<b>FP-202967</b>





## FP Diesel ML<sup>7</sup> Head Gaskets

- Patented multi-layer design provides unprecedented strength
- Expanded graphite outer facings fills in minor voids in sealing surfaces
- Stainless steel armors provide robust, long lasting combustion seal
- Solid steel core provides enhanced lateral stability



## Valvetrain Components

- Manufactured to the highest quality standards
- OEM specification materials used with upgrades to super alloys such as stellite, nickel, nimonic and inconel where needed for problem applications
- Available parts include valves, springs, guides, keepers, rotocaps, rocker parts, lifters, seals, seats and more



## www.FMe-cat.com

- Commercial vehicle electronic catalog – available at [www.FMe-cat.com](http://www.FMe-cat.com)
- User friendly interface features the most complete product offering and latest coverage data
- Online solution offers fast, easy access to virtual catalog pages covering the thousands of FP Diesel<sup>®</sup> components
- Eases locating components for heavy-duty applications and enables users to accurately navigate in a virtual catalog environment of commercial vehicles



Commercial, Ag  
and Industrial

**GLOBAL TECHNOLOGY behind every part**