

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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### Product Information

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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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### ABBREVIATION ..... DESCRIPTION

|                   |                           |
|-------------------|---------------------------|
| & .....           | 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                  |

### ABBREVIATION ..... DESCRIPTION

|                |                             |
|----------------|-----------------------------|
| 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           |
| Frt .....      | 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**

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**Marine**







## 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

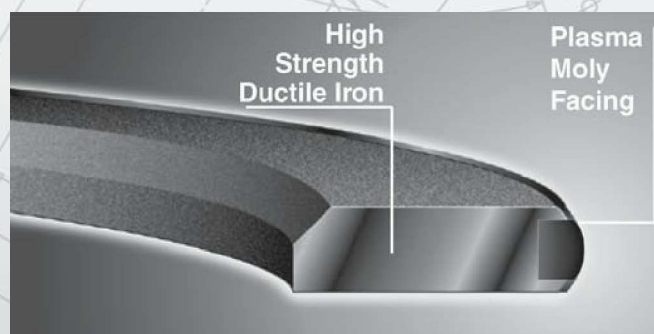
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FP Diesel offers a broad range of piston rings that dominate the industry with technically advanced design, dedicated research and superior quality. Our rings minimize cylinder leakage under true operating conditions, and provide maximum oil control.

### Top Ring

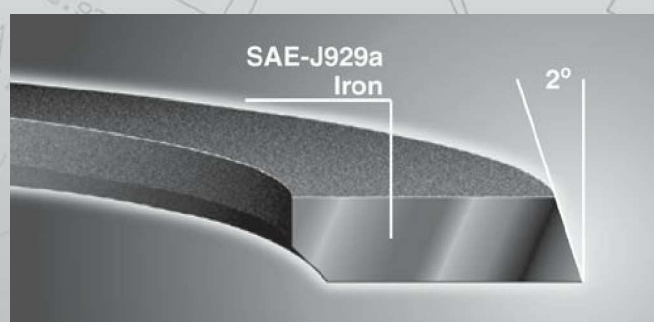
FP Diesel top rings provide reliable compression sealing and maximum power output, and control "blow-by." They are engineered for instant seating, superior cylinder sealing and optimum durability. We offer cast iron, high strength ductile iron, and steel material choices. All premium ring sets feature 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.

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.



### 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.





## 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

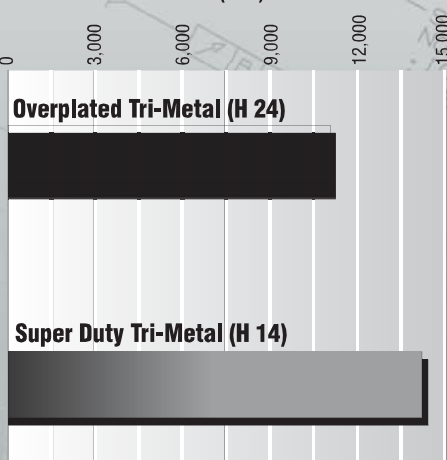
Diesel fuels, moisture, and engine “blow-by” introduce many contaminants into the crankcase. Aluminum engine bearing materials provide outstanding resistance to the corrosive effects of these substances, and are the product of choice for most current original equipment vehicle manufacturers. The modern 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.

Maximum Peak Load (PSI)







## Engine Kits

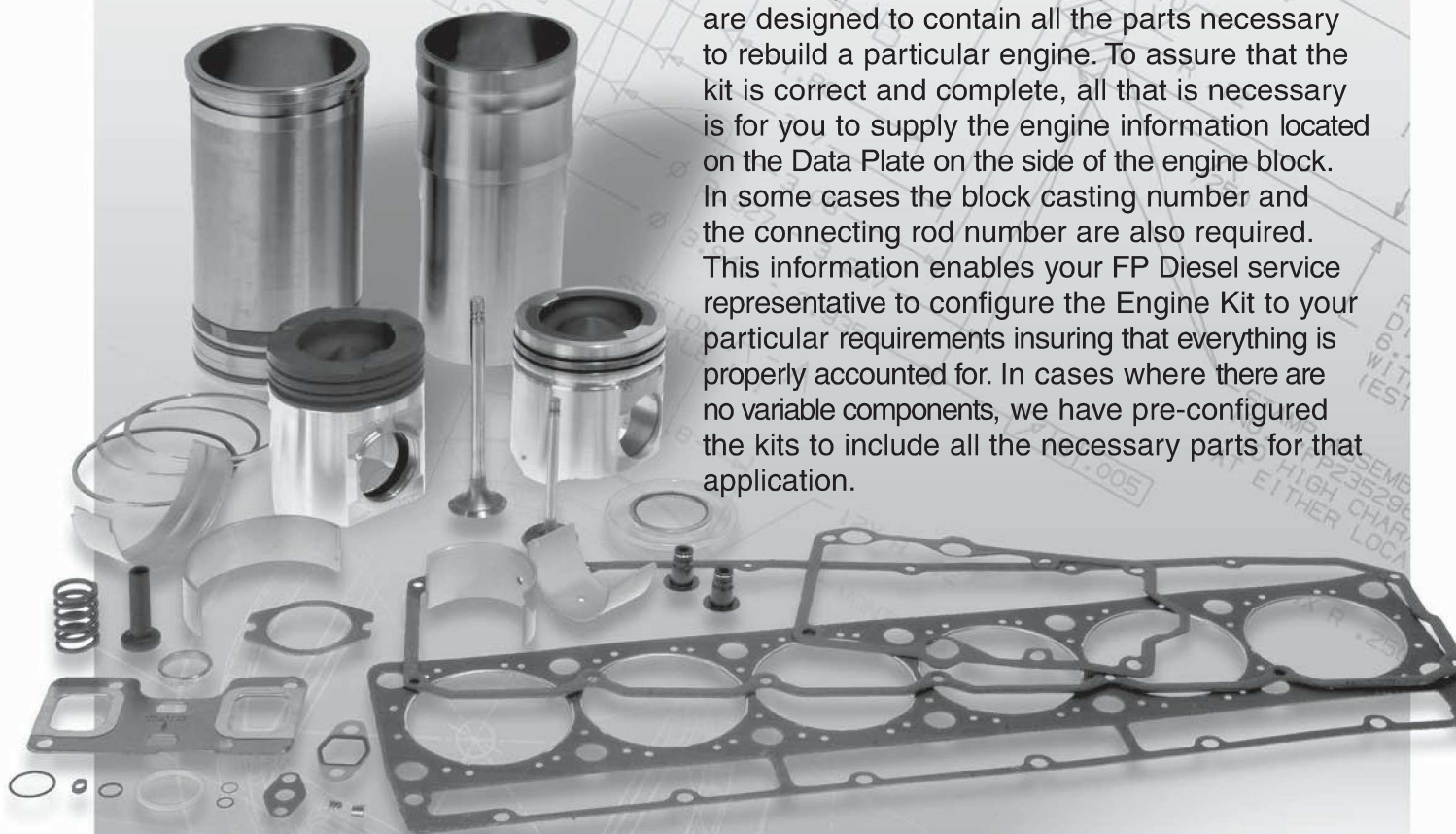
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The FP Diesel Engine Kit program allows you to select a kit tailored to the job at hand. Whether performing a complete overhaul or in-frame repair, FP Diesel engine kits contain all the necessary components to complete the rebuild job. This comprehensive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

### *Global Technology Behind Every Part*

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 PÉRTE D'UNE AUTRE PROPRIÉTÉ OU D'UN AUTRE ÉQUIPEMENT, LA PÉRTE 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 COMO 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 LIMITÁNDOSE 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.





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### Engine Code Index

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| A336BDT ... Wheel Skidder...     | 5.5L 336 Turbo-Diesel L4 4.625" Bore.....                         | 42       | G148B ... Wheel Tractor.....    | 2.4L 148 L4 3.375" Bore (G148) ..                                                | 12       |
| A336BDT ... Concrete Placer..... | 5.5L 336 Turbo-Diesel L4 4.625" Bore.....                         | 42       | G148B ... Wheel Tractor.....    | 2.4L 148 L4 3.375" Bore (G148B).....                                             | 13       |
| A377B ... Wheel Tractor .....    | 6.2L 377 L6 4" Bore (Early) .....                                 | 48       | G159 ... Wheel Tractor .....    | 2.6L 159 L4 3.5" Bore.....                                                       | 17       |
| A377S ... Wheel Tractor .....    | 6.2L 377 L6 4" Bore (Early) .....                                 | 48       | G159B ... Wheel Tractor.....    | 2.6L 159 L4 3.5" Bore.....                                                       | 17       |
| A401B ... Wheel Tractor .....    | 6.6L 401 Diesel L6 4.125" Bore....                                | 51       | G164 ... Wheel Tractor .....    | 2.7L 164 L4 3.5625" Bore.....                                                    | 19       |
| A401B ... Crawler Tractor.....   | 6.6L 401 Diesel L6 4.125" Bore....                                | 51       | G188 ... Combine .....          | 3.1L 188 L4 3.8125" Bore (G188B).....                                            | 21       |
| A401B ... Wheel Loader .....     | 6.6L 401 Diesel L6 4.125" Bore....                                | 51       | G188 ... Wheel Tractor .....    | 3.1L 188 L4 3.8125" Bore (G188B).....                                            | 21       |
| A401BD ... Wheel Tractor.....    | 6.6L 401 Diesel L6 4.125" Bore....                                | 51       | G188B ... Combine .....         | 3.1L 188 L4 3.8125" Bore (G188B).....                                            | 21       |
| A401BD ... Crawler Tractor ..... | 6.6L 401 Diesel L6 4.125" Bore....                                | 51       | G188B ... Wheel Tractor.....    | 3.1L 188 L4 3.8125" Bore (G188B).....                                            | 21       |
| A401BD ... Wheel Loader.....     | 6.6L 401 Diesel L6 4.125" Bore....                                | 51       | G188D ... Combine .....         | 3.1L 188 Diesel L4 3.8125" Bore..                                                | 22       |
| A401D ... Wheel Tractor .....    | 6.6L 401 Diesel L6 4.125" Bore....                                | 51       | G188D ... Wheel Tractor.....    | 3.1L 188 Diesel L4 3.8125" Bore..                                                | 22       |
| A401D ... Crawler Tractor.....   | 6.6L 401 Diesel L6 4.125" Bore....                                | 51       | G188D ... Windrower.....        | 3.1L 188 Diesel L4 3.8125" Bore..                                                | 22       |
| A401D ... Wheel Loader .....     | 6.6L 401 Diesel L6 4.125" Bore....                                | 51       | G188D ... Crawler Tractor ..... | 3.1L 188 Diesel L4 3.8125" Bore..                                                | 22       |
| A451 ... Wheel Tractor.....      | 7.4L 451 Diesel L6 4.375" Bore....                                | 54       | G188D ... Wheel Loader.....     | 3.1L 188 Diesel L4 3.8125" Bore..                                                | 22       |
| A451B ... Wheel Tractor .....    | 7.4L 451 Diesel L6 4.375" Bore....                                | 54       | G207D ... Forklift .....        | 3.4L 207 Diesel L4 4" Bore.....                                                  | 23       |
| A451B ... Crawler Tractor .....  | 7.4L 451 Diesel L6 4.375" Bore....                                | 54       | G207D ... Loader .....          | 3.4L 207 Diesel L4 4" Bore.....                                                  | 23       |
| A451BD ... Wheel Tractor.....    | 7.4L 451 Diesel L6 4.375" Bore....                                | 54       | G207D ... Wheel Tractor.....    | 3.4L 207 Diesel L4 4" Bore.....                                                  | 23       |
| A451BD ... Crawler Tractor ..... | 7.4L 451 Diesel L6 4.375" Bore....                                | 54       | G207D ... Crawler Tractor ..... | 3.4L 207 Diesel L4 4" Bore.....                                                  | 23       |
| A451D ... Wheel Tractor .....    | 7.4L 451 Diesel L6 4.375" Bore....                                | 54       | H-225 ... Combine .....         | 3.7L 225 OHV L6 3.4063" Bore (Chrysler Eng.).....                                | 25       |
| A451T ... Wheel Tractor .....    | 7.4L 451 Turbo-Diesel L6 4.375" Bore.....                         | 55       | H-273 ... Combine .....         | 4.5L 273 OHV V8 3.625" Bore (Chrysler Eng.).....                                 | 33       |
| A504BD ... Wheel Tractor.....    | 8.3L 504 Diesel L6 4.625" Bore....                                | 56       | H-318 ... Combine .....         | 5.2L 318 OHV V8 3.9063" Bore (Chrysler Eng.).....                                | 40       |
| A504BD ... Crawler 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 ... Wheel Loader.....     | 8.3L 504 Diesel L6 4.625" Bore....                                | 56       | HAENL ... Grain Elevator.....   | 4L 23 L-HEAD L1 3" Bore (Wisconsin Eng.) .....                                   | 1        |
| A504BD ... Excavator .....       | 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 ... Concrete Placer ...   | 8.3L 504 Diesel L6 4.625" Bore....                                | 56       | HD277 ... Wheel Tractor.....    | 4.5L 277 OHV Diesel L4 4" Bore (Continental Eng.).....                           | 34       |
| A504BDT ... Combine.....         | 8.3L 504 Turbo-Diesel L6 4.625" Bore.....                         | 57       | H6.354 ... Wheel Tractor .....  | 5.8L 354 OHV Diesel L6 3.875" Bore (12 Valve) (Perkins Eng.).....                | 43       |
| A504BDT ... Wheel Tractor ...    | 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 ... Crawler 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 ... Wheel Loader.....    | 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 ... Excavator .....      | 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 ... Concrete Placer..... | 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       |
| A6.354 ... Wheel Tractor.....    | 5.8L 354 OHV Diesel L6 3.875" Bore (12 Valve) (Perkins Eng.)..... | 43       | NTC400 ... Wheel Tractor.....   | 14.0L 855 OHV Turbo-Diesel L6 5.5" Bore (Cummins Eng.).....                      | 62       |
| CE ... Combine .....             | 4.3L 260 L4 3.875" Bore.....                                      | 30       | QSB 5.9 ... Grader.....         | 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 5.9 ... Compactor .....     | 5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (24 Valve) (Cummins Eng.) ..... | 47       |
| FK ... Combine.....              | 2.2L 133 L-HEAD L4 3.25" Bore (Early) (Waukesha Eng.).....        | 9        | QSB 6.7 ... Grader.....         | 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        | QSB 6.7 ... Wheel Tractor ..... | 6.7L 408 (6691cc) OHV Turbo-Diesel L6 107mm Bore (24 Valve) (Cummins Eng.) ..... | 53       |
| 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. |
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| 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       |
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|                                     |                                                                                    |          | 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       |
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|                                     |                                                                                    |          | 336B ... Wheel Tractor.....    | 5.5L 336 Diesel L4 4.625" Bore....                                                 | 41       |
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|                                     |                                                                                    |          | 336B ... Wheel Skidder.....    | 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. |
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| 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       | 504BDT ... 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       |                                  |                                                                                  |          |
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| 504 ... Crawler Tractor.....    | 8.3L 504 Diesel L6 4.625" Bore....                                   | 56       |                                  |                                                                                  |          |

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| 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       |
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| 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       |
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| 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        |
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| DC4 ... Wheel Tractor.....      | 4.3L 260 L4 3.875" Bore.....                                                     | 30       | R ... Wheel Tractor .....       | 2.2L 133 L4 3.25" Bore (Waukesha Eng.) .....                                     | 10       |
| DE ... 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        |
| DH ... Wheel Tractor.....       | 4.3L 260 L4 3.875" Bore.....                                                     | 30       | RC ... Wheel Tractor.....       | 2.2L 133 L4 3.25" Bore (Waukesha Eng.) .....                                     | 10       |
| DI ... 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        |
| DIM ... Wheel Tractor .....     | 4.3L 260 L4 3.875" Bore.....                                                     | 30       | RI ... Wheel Tractor .....      | 2.2L 133 L4 3.25" Bore (Waukesha Eng.) .....                                     | 10       |
| DO ... Wheel Tractor.....       | 4.3L 260 L4 3.875" Bore.....                                                     | 30       | RO ... 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       | RO ... Wheel Tractor.....       | 2.2L 133 L4 3.25" Bore (Waukesha Eng.) .....                                     | 10       |
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| G ... Combine .....             | 1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.) .....                             | 4        | SP12 ... Combine .....          | 4.3L 260 L4 3.875" Bore.....                                                     | 30       |
| G ... Combine .....             | 1.5L 91.9 L-HEAD V4 3" Bore (Wisconsin Eng.) .....                               | 2        | SP9 ... Combine .....           | 2.5L 154 L4 3.5" Bore.....                                                       | 14       |
| K ... Combine.....              | 2.2L 133 L-HEAD L4 3.25" Bore (Early) (Waukesha Eng.) .....                      | 9        | SP9 ... Combine .....           | 4.3L 260 L4 3.875" Bore.....                                                     | 30       |
| K ... Combine.....              | 2.2L 133 L4 3.25" Bore (Waukesha Eng.) .....                                     | 10       | STX275 ... Wheel Tractor.....   | 8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (24 Valve) (Cummins Eng.) ..... | 58       |
| K (Except Prairie) ...          |                                                                                  |          | SV212 ... Compactor.....        | 5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (24 Valve) (Cummins Eng.) ..... | 47       |
| Combine.....                    | 2.1L 124 L4 3.25" Bore.....                                                      | 6        | SV216 ... Compactor.....        | 5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (24 Valve) (Cummins Eng.) ..... | 47       |
| MCM ... Hay Baler .....         | 1.5L 91.9 L-HEAD V4 3" Bore (Wisconsin Eng.) .....                               | 2        | TB336 ... Wheel Skidder.....    | 5.5L 336 Diesel L4 4.625" Bore....                                               | 41       |
| MXV125 ... Wheel Tractor .....  | 6.7L 408 (6691cc) OHV Turbo-Diesel L6 107mm Bore (24 Valve) (Cummins Eng.) ..... | 53       | TB336 ... Concrete Placer ..... | 5.5L 336 Diesel L4 4.625" Bore....                                               | 41       |
| MXV135 ... Wheel Tractor .....  | 6.7L 408 (6691cc) OHV Turbo-Diesel L6 107mm Bore (24 Valve) (Cummins Eng.) ..... | 53       |                                 |                                                                                  |          |
| MX100 ... Wheel Tractor.....    | 5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.) ..... | 45       |                                 |                                                                                  |          |
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| MX135 ... Wheel Tractor.....    | 5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.) ..... | 45       |                                 |                                                                                  |          |
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| TB80 ... Concrete Placer .....  | 8.3L 504 Turbo-Diesel L6 4.625" Bore .....                                       | 57       | W18 ... Wheel Loader .....       | 6.6L 401 Diesel L6 4.125" Bore .....                                  | 51       |
| T336 ... Wheel Skidder .....    | 5.5L 336 Diesel L4 4.625" Bore .....                                             | 41       | W18 ... Wheel Loader .....       | 6.6L 401 Turbo-Diesel L6 4.125" Bore .....                            | 52       |
| T336 ... Concrete Placer .....  | 5.5L 336 Diesel L4 4.625" Bore .....                                             | 41       | W18 Articulated Loader ...       |                                                                       |          |
| T336 ... Concrete Placer .....  | 5.5L 336 Turbo-Diesel L4 4.625" Bore .....                                       | 42       | Wheel Loader .....               | 6.6L 401 Diesel L6 4.125" Bore .....                                  | 51       |
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| T80 ... Concrete Placer .....   | 8.3L 504 Turbo-Diesel L6 4.625" Bore .....                                       | 57       | Wheel Loader .....               | 6.6L 401 Turbo-Diesel L6 4.125" Bore .....                            | 52       |
| U ... Combine .....             | 1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.) .....                             | 4        | W20 ... Wheel Loader .....       | 6.6L 401 Diesel L6 4.125" Bore .....                                  | 51       |
| U ... Combine .....             | 2.1L 124 L4 3.25" Bore .....                                                     | 6        | W20 ... Wheel Loader .....       | 6.6L 401 Turbo-Diesel L6 4.125" Bore .....                            | 52       |
| U ... Combine .....             | 1.5L 91.9 L-HEAD V4 3" Bore (Wisconsin Eng.) .....                               | 2        | W20 Articulated Loader ...       |                                                                       |          |
| V ... Wheel Tractor .....       | 2.1L 124 L-HEAD L4 3" Bore (Continental Eng.) .....                              | 5        | Wheel Loader .....               | 6.6L 401 Diesel L6 4.125" Bore .....                                  | 51       |
| VA ... Wheel Tractor .....      | 2.1L 124 L4 3.25" Bore .....                                                     | 6        | W20 Articulated Loader ...       |                                                                       |          |
| VAC ... Wheel Tractor .....     | 2.1L 124 L4 3.25" Bore .....                                                     | 6        | Wheel Loader .....               | 6.6L 401 Turbo-Diesel L6 4.125" Bore .....                            | 52       |
| VAC-14 ... Wheel Tractor .....  | 2.1L 124 L4 3.25" Bore .....                                                     | 6        | W20B ... Wheel Loader .....      | 6.6L 401 Diesel L6 4.125" Bore .....                                  | 51       |
| VAE ... Wheel Tractor .....     | 2.1L 124 L4 3.25" Bore .....                                                     | 6        | W20B ... Wheel Loader .....      | 6.6L 401 Turbo-Diesel L6 4.125" Bore .....                            | 52       |
| VAH ... Wheel Tractor .....     | 2.1L 124 L4 3.25" Bore .....                                                     | 6        | W20B Articulated Loader ...      |                                                                       |          |
| VAI ... Wheel Tractor .....     | 2.1L 124 L4 3.25" Bore .....                                                     | 6        | Wheel Loader .....               | 6.6L 401 Diesel L6 4.125" Bore .....                                  | 51       |
| VAO ... Wheel Tractor .....     | 2.1L 124 L4 3.25" Bore .....                                                     | 6        | W20B Articulated Loader ...      |                                                                       |          |
| VAS ... Wheel Tractor .....     | 2.1L 124 L4 3.25" Bore .....                                                     | 6        | Wheel Loader .....               | 6.6L 401 Turbo-Diesel L6 4.125" Bore .....                            | 52       |
| VC ... Wheel Tractor .....      | 2.1L 124 L-HEAD L4 3" Bore (Continental Eng.) .....                              | 5        | W20C ... Wheel Tractor .....     | 8.3L 504 Diesel L6 4.625" Bore .....                                  | 56       |
| VI ... Wheel Tractor .....      | 2.1L 124 L-HEAD L4 3" Bore (Continental Eng.) .....                              | 5        | W24 ... Wheel Loader .....       | 8.3L 504 Diesel L6 4.625" Bore .....                                  | 56       |
| VO ... Wheel Tractor .....      | 2.1L 124 L-HEAD L4 3" Bore (Continental Eng.) .....                              | 5        | W24 ... Wheel Loader .....       | 8.3L 504 Turbo-Diesel L6 4.625" Bore .....                            | 57       |
| V2 ... Combine .....            | 4.6L 282 L-HEAD L6 3.75" Bore (Hercules Eng.) .....                              | 35       | W24B ... Wheel Loader .....      | 8.3L 504 Diesel L6 4.625" Bore .....                                  | 56       |
| WA106 ... Wheel Tractor .....   | 2.1L 124 L4 3.25" Bore .....                                                     | 6        | W24B ... Wheel Loader .....      | 8.3L 504 Turbo-Diesel L6 4.625" Bore .....                            | 57       |
| W10 ... Wheel Loader .....      | 5.0L 301 Diesel L4 4.375" Bore .....                                             | 39       | W24C ... Wheel Loader .....      | 8.3L 504 Diesel L6 4.625" Bore .....                                  | 56       |
| W10 ... Wheel Loader .....      | 6.6L 401 Diesel L6 4.125" Bore .....                                             | 51       | W24C ... Wheel Loader .....      | 8.3L 504 Turbo-Diesel L6 4.625" Bore .....                            | 57       |
| W10B ... Wheel Loader .....     | 6.6L 401 Diesel L6 4.125" Bore .....                                             | 51       | W26 ... Wheel Tractor .....      | 2.1L 126 L4 3.125" Bore .....                                         | 7        |
| W10C ... Wheel Loader .....     | 6.6L 401 Diesel L6 4.125" Bore .....                                             | 51       | W26B ... Wheel Loader .....      | 8.3L 504 Diesel L6 4.625" Bore .....                                  | 56       |
| W10E ... Wheel Loader .....     | 6.6L 401 Diesel L6 4.125" Bore .....                                             | 51       | W26B ... 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       | W3 ... Loader .....              | 3.1L 188 Diesel L4 3.8125" Bore .....                                 | 22       |
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| W11B ... Wheel Tractor .....    | 3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.) .....                  | 26       | W36 ... Wheel Loader .....       | 8.3L 504 Diesel L6 4.625" Bore .....                                  | 56       |
| W11B ... Wheel Tractor .....    | 3.9L 239 (3921cc) OHV Turbo-Diesel L4 102mm Bore (Cummins Eng.) .....            | 27       | W36 ... Wheel Loader .....       | 8.3L 504 Turbo-Diesel L6 4.625" Bore .....                            | 57       |
| W12 ... Wheel Loader .....      | 6.6L 401 Diesel L6 4.125" Bore .....                                             | 51       | W36 ... Wheel Loader .....       | 8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.) ..... | 59       |
| W14 ... Wheel Loader .....      | 5.5L 336 Diesel L4 4.625" Bore .....                                             | 41       | W5 ... Wheel Loader .....        | 3.1L 188 Diesel L4 3.8125" Bore .....                                 | 22       |
| W14 ... Wheel Loader .....      | 5.5L 336 Turbo-Diesel L4 4.625" Bore .....                                       | 42       | W5A ... Wheel Tractor .....      | 3.1L 188 L4 3.8125" Bore (G188B) .....                                | 21       |
| W14 Articulated Loader ...      |                                                                                  |          | W5A ... Loader .....             | 3.1L 188 Diesel L4 3.8125" Bore .....                                 | 22       |
| Wheel Loader .....              | 5.5L 336 Diesel L4 4.625" Bore .....                                             | 41       | W5A ... Wheel Loader .....       | 3.1L 188 Diesel L4 3.8125" Bore .....                                 | 22       |
| W14 Articulated Loader ...      |                                                                                  |          | W5AD ... Wheel Loader .....      | 3.1L 188 Diesel L4 3.8125" Bore .....                                 | 22       |
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| W14B ... Wheel Tractor .....    | 5.9L 359 (5882cc) OHV Diesel L6 102mm Bore (Cummins Eng.) .....                  | 44       | W7 ... Wheel Loader .....        | 5.0L 301 Diesel L4 4.375" Bore .....                                  | 39       |
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| W14C ... 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       |
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| W14H ... Wheel Loader .....     | 5.5L 336 Diesel L4 4.625" Bore .....                                             | 41       | W7E ... Wheel Tractor .....      | 3.1L 188 Diesel L4 3.8125" Bore .....                                 | 22       |
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| W9 ... Wheel Tractor.....    | 6.6L 401 Turbo-Diesel L6 4.125"    |          | 1085C ... Excavator .....       | 5.9L 359 (5882cc) OHV              |          |
|                              | Bore .....                         | 52       |                                 | Turbo-Diesel L6 102mm Bore (12     |          |
| W9 (4WD) ... Wheel Loader .. | 6.6L 401 Diesel L6 4.125" Bore.... | 51       |                                 | Valve) (Cummins Eng.) .....        | 45       |
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| 1000 ... Combine .....       | 5.0L 301 L4 4.375" Bore.....       | 38       | 1150E ... Crawler Tractor ..... | 5.9L 359 (5882cc) OHV              |          |
| 1000 ... Combine .....       | 5.0L 301 Diesel L4 4.375" Bore.... | 39       |                                 | Turbo-Diesel L6 102mm Bore (12     |          |
| 1000 ... Combine .....       | 5.2L 318 OHV V8 3.9063" Bore       |          |                                 | Valve) (Cummins Eng.) .....        | 45       |
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| 1010 ... Combine .....       | 4.7L 284 L4 4.25" Bore.....        | 36       |                                 | Turbo-Diesel L6 102mm Bore (12     |          |
| 1010 ... Combine .....       | 4.9L 298 OHV L6 3.75" Bore         |          |                                 | Valve) (Cummins Eng.) .....        | 45       |
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| 1010 ... Combine .....       | 5.0L 301 Diesel L4 4.375" Bore.... | 39       |                                 | Turbo-Diesel L6 114mm Bore         |          |
| 1010 ... Combine .....       | 5.2L 318 OHV V8 3.9063" Bore       |          |                                 | (Cummins Eng.) .....               | 59       |
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| 1010 Rice ... Combine .....  | 4.9L 298 OHV L6 3.75" Bore         |          | 1160 ... Combine .....          | 5.2L 318 OHV V8 3.9063" Bore       |          |
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| 1010 Rice ... Combine .....  | 5.2L 318 OHV V8 3.9063" Bore       |          | 1170 ... Wheel Tractor .....    | 7.4L 451 Turbo-Diesel L6 4.375"    |          |
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| 1060 ... Combine .....       | 4.5L 273 OHV V8 3.625" Bore        |          | 1175 Agri King ... Wheel        |                                    |          |
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| 1060 ... Combine .....       | 4.7L 284 L4 4.25" Bore.....        | 36       |                                 | Bore .....                         | 55       |
| 1060 ... Combine .....       | 5.0L 301 Diesel L4 4.375" Bore.... | 39       | 1187C ... Excavator .....       | 8.3L 505 (8300cc) OHV              |          |
| 1060 ... Combine .....       | 5.2L 318 OHV V8 3.9063" Bore       |          |                                 | Turbo-Diesel L6 114mm Bore         |          |
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| 1060 Rice ... Combine .....  | 5.2L 318 OHV V8 3.9063" Bore       |          | 1221E ... Wheel Loader.....     | 10.8L 661 (10800cc) OHV            |          |
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| 1070 ... Wheel Tractor ..... | 7.4L 451 Diesel L6 4.375" Bore.... | 54       |                                 | Valve) (Cummins Eng.) .....        | 61       |
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| Tractor.....                 | 6.6L 401 Diesel L6 4.125" Bore.... | 51       |                                 | Turbo-Diesel L6 125mm Bore (24     |          |
| 1070 Agri King ... Wheel     |                                    |          |                                 | Valve) (Cummins Eng.) .....        | 61       |
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|                              | Bore .....                         | 52       |                                 | (G188B) .....                      | 21       |
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| 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              |          | 300B ... Wheel Tractor.....    | 2.4L 148 L4 3.375" Bore (G148) ..  | 12       |
|                              | Turbo-Diesel L6 102mm Bore (12     |          | 300B ... Wheel Tractor.....    | 2.4L 148 L4 3.375" Bore            |          |
|                              | Valve) (Cummins Eng.) .....        | 45       |                                | (G148B) .....                      | 13       |
| 2090 ... Wheel Tractor ..... | 8.3L 504 Turbo-Diesel L6 4.625"    |          | 300B ... Wheel Tractor.....    | 2.6L 157 OHV Diesel L4 3.4375"     |          |
|                              | Bore .....                         | 57       |                                | Bore (Continental Eng.) .....      | 16       |
| 2096 ... Wheel Tractor ..... | 5.9L 359 (5882cc) OHV              |          | 300C ... Wheel Skidder.....    | 5.5L 336 Diesel L4 4.625" Bore.... | 41       |
|                              | Turbo-Diesel L6 102mm Bore (12     |          | 300C ... Wheel Skidder.....    | 5.5L 336 Turbo-Diesel L4 4.625"    |          |
|                              | Valve) (Cummins Eng.) .....        | 45       |                                | Bore .....                         | 42       |
| 210B ... Wheel Tractor.....  | 2.1L 126 L4 3.125" Bore.....       | 7        | 301 ... Wheel Tractor .....    | 2.6L 157 OHV Diesel L4 3.4375"     |          |
| 210B ... Wheel Tractor.....  | 2.4L 148 L4 3.375" Bore (G148) ..  | 12       |                                | Bore (Continental Eng.) .....      | 16       |
| 211B ... Wheel Tractor.....  | 2.1L 126 L4 3.125" Bore.....       | 7        | 301D Type 1 ... Wheel          |                                    |          |
| 211B ... Wheel Tractor.....  | 2.4L 148 L4 3.375" Bore (G148) ..  | 12       | Tractor.....                   | 5.0L 301 Diesel L4 4.375" Bore.... | 39       |
| 2144 ... Combine .....       | 5.9L 359 (5882cc) OHV              |          | 301D Type 11 ... Wheel         |                                    |          |
|                              | Turbo-Diesel L6 102mm Bore (12     |          | Tractor.....                   | 5.0L 301 Diesel L4 4.375" Bore.... | 39       |
|                              | Valve) (Cummins Eng.) .....        | 45       | 301D Type 111 ... Wheel        |                                    |          |
| 2290 ... Wheel Tractor ..... | 8.3L 504 Diesel L6 4.625" Bore.... | 56       | Tractor.....                   | 5.0L 301 Diesel L4 4.375" Bore.... | 39       |
| 2290 ... Wheel Tractor ..... | 8.3L 504 Turbo-Diesel L6 4.625"    |          | 302 ... Wheel Tractor .....    | 2.6L 157 OHV Diesel L4 3.4375"     |          |
|                              | Bore .....                         | 57       |                                | Bore (Continental Eng.) .....      | 16       |
| 2294 ... Wheel Tractor ..... | 8.3L 504 Turbo-Diesel L6 4.625"    |          | 310 ... Wheel Tractor .....    | 2.4L 148 L4 3.375" Bore (G148) ..  | 12       |
|                              | Bore .....                         | 57       | 310 ... Wheel Tractor .....    | 2.4L 148 L4 3.375" Bore            |          |
| 2366 ... Combine .....       | 8.3L 505 (8300cc) OHV              |          |                                | (G148B) .....                      | 13       |
|                              | Turbo-Diesel L6 114mm Bore         |          | 310 ... Wheel Tractor .....    | 3.1L 188 Diesel L4 3.8125" Bore..  | 22       |
|                              | (Cummins Eng.) .....               | 59       | 310 ... Crawler Tractor.....   | 3.1L 188 Diesel L4 3.8125" Bore..  | 22       |
| 2390 ... Wheel Tractor ..... | 8.3L 504 Diesel L6 4.625" Bore.... | 56       | 310B ... Wheel Tractor.....    | 2.4L 148 L4 3.375" Bore (G148) ..  | 12       |
| 2390 ... Wheel Tractor ..... | 8.3L 504 Turbo-Diesel L6 4.625"    |          | 310B ... Wheel Tractor.....    | 2.4L 148 L4 3.375" Bore            |          |
|                              | Bore .....                         | 57       |                                | (G148B) .....                      | 13       |
| 2394 ... Wheel Tractor ..... | 8.3L 504 Turbo-Diesel L6 4.625"    |          | 310B ... Wheel Tractor.....    | 3.1L 188 Diesel L4 3.8125" Bore..  | 22       |
|                              | Bore .....                         | 57       | 310C ... Wheel Tractor .....   | 2.4L 148 L4 3.375" Bore (G148) ..  | 12       |
| 2470 ... Wheel Tractor ..... | 8.3L 504 Diesel L6 4.625" Bore.... | 56       | 310C ... Wheel Tractor .....   | 2.4L 148 L4 3.375" Bore            |          |
| 2470 ... Wheel Tractor ..... | 8.3L 504 Turbo-Diesel L6 4.625"    |          |                                | (G148B) .....                      | 13       |
|                              | Bore .....                         | 57       | 310C From Ser. No.             |                                    |          |
| 2470 Trac King ... Wheel     |                                    |          | 3008188 ... Crawler            |                                    |          |
| Tractor.....                 | 8.3L 504 Turbo-Diesel L6 4.625"    |          | Tractor.....                   | 3.1L 188 Diesel L4 3.8125" Bore..  | 22       |
|                              | Bore .....                         | 57       | 310D ... Wheel Tractor .....   | 2.4L 148 L4 3.375" Bore (G148) ..  | 12       |
| 2590 ... Wheel Tractor ..... | 8.3L 504 Diesel L6 4.625" Bore.... | 56       | 310D ... Wheel Tractor .....   | 2.4L 148 L4 3.375" Bore            |          |
| 2590 ... Wheel Tractor ..... | 8.3L 504 Turbo-Diesel L6 4.625"    |          |                                | (G148B) .....                      | 13       |
|                              | Bore .....                         | 57       | 310D ... Crawler Tractor ..... | 3.1L 188 Diesel L4 3.8125" Bore..  | 22       |
| 2594 ... Wheel Tractor ..... | 8.3L 504 Turbo-Diesel L6 4.625"    |          | 310E ... Wheel Tractor.....    | 2.4L 148 L4 3.375" Bore (G148) ..  | 12       |
|                              | Bore .....                         | 57       | 310E ... Wheel Tractor.....    | 2.4L 148 L4 3.375" Bore            |          |
| 2670 ... Wheel Tractor ..... | 8.3L 504 Diesel L6 4.625" Bore.... | 56       |                                | (G148B) .....                      | 13       |
| 2670 ... Wheel Tractor ..... | 8.3L 504 Turbo-Diesel L6 4.625"    |          | 310E ... Combine.....          | 3.1L 188 Diesel L4 3.8125" Bore..  | 22       |
|                              | Bore .....                         | 57       | 310E ... Crawler Tractor ..... | 3.1L 188 Diesel L4 3.8125" Bore..  | 22       |
| 2670 Trac King ... Wheel     |                                    |          | 310F ... Wheel Tractor.....    | 2.4L 148 L4 3.375" Bore (G148) ..  | 12       |
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|                              | Bore .....                         | 57       |                                | (G148B) .....                      | 13       |
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| 284G Type 111 ... Wheel      |                                    |          |                                | (G148B) .....                      | 13       |
| Tractor.....                 | 4.7L 284 L4 4.25" Bore.....        | 36       | 310G ... Combine .....         | 3.1L 188 Diesel L4 3.8125" Bore..  | 22       |
| 284L Type 1 ... Wheel        |                                    |          | 310G From Ser. No.             |                                    |          |
| Tractor.....                 | 4.7L 284 L4 4.25" Bore.....        | 36       | 3032031 ... Crawler            |                                    |          |
| 284L Type 11 ... Wheel       |                                    |          | Tractor.....                   | 3.1L 188 Diesel L4 3.8125" Bore..  | 22       |
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| Tractor.....                 | 4.7L 284 L4 4.25" Bore.....        | 36       |                                | (G148B) .....                      | 13       |
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| Tractor.....                 | 4.7L 284 L4 4.25" Bore.....        | 36       | 311B ... Wheel Tractor.....    | 2.4L 148 L4 3.375" Bore (G148) ..  | 12       |
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| 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       | 480CK ... Crawler Tractor.....         | 3.1L 188 Diesel L4 3.8125" Bore..                              | 22       |
| 450B ... Crawler Tractor ..... | 3.4L 207 Diesel L4 4" Bore.....                                                  | 23       | 480E ... 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       | 480E LL ... 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 ... 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       | 480F LL ... Backhoe .....              | 3.9L 239 (3921cc) OHV Diesel L4 102mm Bore (Cummins Eng.)..... | 26       |
| 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 (G148) ..                              | 12       |
| 4690 ... Wheel Tractor.....    | 8.3L 504 Turbo-Diesel L6 4.625" Bore.....                                        | 57       | 480LL ... Wheel Tractor.....           | 2.4L 148 L4 3.375" Bore (G148B).....                           | 13       |
| 4694 ... 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       |
| 470 Series ... Wheel Tractor.. | 2.4L 148 L4 3.375" Bore (G148) ..                                                | 12       | 480LL ... Wheel Tractor.....           | 2.6L 159 L4 3.5" Bore.....                                     | 17       |
| 470 Series ... Wheel Tractor.. | 2.4L 148 L4 3.375" Bore (G148B).....                                             | 13       | 480LL ... Wheel Tractor.....           | 3.1L 188 L4 3.8125" Bore (G188B).....                          | 21       |
| 470 Series ... Wheel Tractor.. | 2.6L 157 OHV Diesel L4 3.4375" Bore (Continental Eng.).....                      | 16       | 480LL ... Wheel Tractor.....           | 3.1L 188 Diesel L4 3.8125" Bore..                              | 22       |
| 470 Series ... Wheel Tractor.. | 2.6L 159 L4 3.5" Bore.....                                                       | 17       | 50 ... Crawler Tractor.....            | 8.3L 504 Turbo-Diesel L6 4.625" Bore.....                      | 57       |
| 470 Series ... Wheel Tractor.. | 3.1L 188 L4 3.8125" Bore (G188B).....                                            | 21       | 500 ... Wheel Tractor.....             | 2.6L 162 L-HEAD L4 3.4375" Bore (Continental Eng.).....        | 18       |
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| 475 ... Wheel Tractor.....     | 5.5L 336 Diesel L4 4.625" Bore....                                               | 41       | 500 ... Wheel Tractor.....             | 6.2L 377 L6 4" Bore (Early) .....                              | 48       |
| 475 ... Crawler Tractor.....   | 5.5L 336 Diesel L4 4.625" Bore....                                               | 41       | 500 ... Wheel Tractor.....             | 6.2L 377 Diesel L6 4" Bore.....                                | 50       |
| 480 ... Wheel Tractor.....     | 2.4L 148 L4 3.375" Bore (G148) ..                                                | 12       | 500 ... Wheel Tractor.....             | 6.6L 401 Diesel L6 4.125" Bore....                             | 51       |
| 480 ... Wheel Tractor.....     | 2.4L 148 L4 3.375" Bore (G148B).....                                             | 13       | 500 Load King ... Crawler Tractor..... | 3.1L 188 Diesel L4 3.8125" Bore..                              | 22       |
| 480 ... Wheel Tractor.....     | 2.6L 157 OHV Diesel L4 3.4375" Bore (Continental Eng.).....                      | 16       | 500 Load King ... Crawler Tractor..... | 3.4L 207 Diesel L4 4" Bore.....                                | 23       |
| 480 ... Wheel Tractor.....     | 2.6L 159 L4 3.5" Bore.....                                                       | 17       | 500B ... Wheel Tractor.....            | 2.7L 164 L4 3.5625" Bore.....                                  | 19       |
| 480 ... Wheel Tractor.....     | 3.1L 188 L4 3.8125" Bore (G188B).....                                            | 21       | 500D ... Wheel Tractor .....           | 2.6L 157 OHV Diesel L4 3.4375" Bore (Continental Eng.).....    | 16       |
|                                |                                                                                  |          | 500LK ... Wheel Tractor.....           | 3.1L 188 L4 3.8125" Bore (G188B).....                          | 21       |
|                                |                                                                                  |          | 500LK ... Wheel Tractor.....           | 3.1L 188 Diesel L4 3.8125" Bore..                              | 22       |
|                                |                                                                                  |          | 510B ... Wheel Tractor.....            | 2.7L 164 L4 3.5625" Bore.....                                  | 19       |
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| 5120 ... Wheel Tractor.....    | 3.9L 239 (3921cc) OHV             |          |                                | (G188B).....                      | 21       |
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| 5140 ... Wheel Tractor.....    | 5.9L 359 (5882cc) OHV             |          |                                | 102mm Bore (Cummins Eng.).....    | 26       |
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| 520 ... Crawler Tractor.....   | 6.2L 377 Diesel L6 4" Bore.....   | 50       |                                | 102mm Bore (Cummins Eng.).....    | 26       |
| 5220 ... Wheel Tractor.....    | 3.9L 239 (3921cc) OHV Diesel L4   |          | 550E ... Crawler Tractor ..... | 3.9L 239 (3921cc) OHV             |          |
|                                | 102mm Bore (Cummins Eng.).....    | 26       |                                | Turbo-Diesel L4 102mm Bore        |          |
| 5220 ... Wheel Tractor.....    | 3.9L 239 (3921cc) OHV             |          |                                | (Cummins Eng.).....               | 27       |
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| 5230 ... Wheel Tractor.....    | 5.9L 359 (5882cc) OHV Diesel L6   |          |                                | (Cummins Eng.).....               | 27       |
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|                                | 102mm Bore (Cummins Eng.).....    | 44       |                                | (G188B).....                      | 21       |
| 5240 ... Wheel Tractor.....    | 5.9L 359 (5882cc) OHV             |          | 570 ... Wheel Tractor.....     | 3.1L 188 Diesel L4 3.8125" Bore.. | 22       |
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|                                | 102mm Bore (Cummins Eng.).....    | 44       | 580 ... Wheel Tractor.....     | 2.4L 148 L4 3.375" Bore           |          |
| 5250 ... Wheel Tractor.....    | 5.9L 359 (5882cc) OHV             |          |                                | (G148B).....                      | 13       |
|                                | Turbo-Diesel L6 102mm Bore (12    |          | 580 ... Wheel Tractor.....     | 2.6L 159 L4 3.5" Bore.....        | 17       |
|                                | Valve) (Cummins Eng.).....        | 45       | 580 ... Wheel Tractor.....     | 3.1L 188 L4 3.8125" Bore          |          |
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| 530 ... Crawler Tractor.....   | 3.4L 207 Diesel L4 4" Bore.....   | 23       | 580 ... Crawler Tractor.....   | 3.4L 207 Diesel L4 4" Bore.....   | 23       |
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| 530 Series ... Wheel Tractor.. | 2.4L 148 L4 3.375" Bore           |          |                                | 102mm Bore (Cummins Eng.).....    | 26       |
|                                | (G148B).....                      | 13       | 580 SUPER E ... Loader.....    | 3.9L 239 (3921cc) OHV             |          |
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| 530 Series ... Wheel Tractor.. | 3.1L 188 L4 3.8125" Bore          |          |                                | (Cummins Eng.).....               | 27       |
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| 530 Series ... Wheel Tractor.. | 3.1L 188 Diesel L4 3.8125" Bore.. | 22       | 580B ... Wheel Tractor.....    | 2.4L 148 L4 3.375" Bore           |          |
| 531 ... Wheel Tractor.....     | 2.4L 148 L4 3.375" Bore (G148) .. | 12       |                                | (G148B).....                      | 13       |
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| 531 ... Wheel Tractor.....     | 2.6L 159 L4 3.5" Bore.....        | 17       |                                | (G188B).....                      | 21       |
| 531 ... Wheel Tractor.....     | 3.1L 188 L4 3.8125" Bore          |          | 580B ... Wheel Tractor.....    | 3.1L 188 Diesel L4 3.8125" Bore.. | 22       |
|                                | (G188B).....                      | 21       | 580B ... Crawler Tractor ..... | 3.1L 188 Diesel L4 3.8125" Bore.. | 22       |
| 531 ... Wheel Tractor.....     | 3.1L 188 Diesel L4 3.8125" Bore.. | 22       | 580B ... Crawler Tractor ..... | 3.4L 207 Diesel L4 4" Bore.....   | 23       |
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| 540 ... Wheel Tractor.....     | 2.4L 148 L4 3.375" Bore           |          | Tractor.....                   | 2.4L 148 L4 3.375" Bore (G148) .. | 12       |
|                                | (G148B).....                      | 13       | 580B Hydrostatic ... Wheel     |                                   |          |
| 540 ... Wheel Tractor.....     | 2.6L 159 L4 3.5" Bore.....        | 17       | Tractor.....                   | 2.4L 148 L4 3.375" Bore           |          |
| 540 ... Wheel Tractor.....     | 3.1L 188 L4 3.8125" Bore          |          |                                | (G148B).....                      | 13       |
|                                | (G188B).....                      | 21       | 580B Hydrostatic ... Wheel     |                                   |          |
| 540 ... Wheel Tractor.....     | 3.1L 188 Diesel L4 3.8125" Bore.. | 22       | Tractor.....                   | 2.6L 159 L4 3.5" Bore.....        | 17       |
| 540C ... Wheel Tractor .....   | 2.4L 148 L4 3.375" Bore (G148) .. | 12       | 580B Hydrostatic ... Wheel     |                                   |          |
| 540C ... Wheel Tractor .....   | 2.4L 148 L4 3.375" Bore           |          | Tractor.....                   | 3.1L 188 L4 3.8125" Bore          |          |
|                                | (G148B).....                      | 13       |                                | (G188B).....                      | 21       |
| 540C ... Wheel Tractor .....   | 2.6L 159 L4 3.5" Bore.....        | 17       | 580B Hydrostatic ... Wheel     |                                   |          |
| 540C ... Wheel Tractor .....   | 3.1L 188 L4 3.8125" Bore          |          | Tractor.....                   | 3.1L 188 Diesel L4 3.8125" Bore.. | 22       |
|                                | (G188B).....                      | 21       | 580C ... Crawler Tractor ..... | 3.1L 188 Diesel L4 3.8125" Bore.. | 22       |
| 540C ... Wheel Tractor .....   | 3.1L 188 Diesel L4 3.8125" Bore.. | 22       | 580C ... Wheel Loader.....     | 3.1L 188 Diesel L4 3.8125" Bore.. | 22       |
| 541 ... Wheel Tractor.....     | 2.4L 148 L4 3.375" Bore (G148) .. | 12       | 580C ... Loader.....           | 3.4L 207 Diesel L4 4" Bore.....   | 23       |
| 541 ... Wheel Tractor.....     | 2.4L 148 L4 3.375" Bore           |          | 580C ... Wheel Tractor .....   | 3.4L 207 Diesel L4 4" Bore.....   | 23       |
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| 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       |
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| 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       |
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| 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       |
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| 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       |
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| 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       |
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| 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       |                                       |                                                                                  |          |

(continued on next page)

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

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

**CYL. HEAD & PARTS**

| QTY | VALVE        | PART NO.    | SIZE | DESCRIPTION                                                                                                                                                                                                                                                                                  |
|-----|--------------|-------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2   | Intake       | FP-V816     |      | AEND Engs.; Valves w/single groove stem can be substituted in Early Engs.; 1.3130" Head Dia., .3085" Stem Dia., 4.7660" O.A.L.                                                                                                                                                               |
| 2   | Intake       | FP-V816     |      | Exh. & Int.; Exc. AEND Engs.; Note: valves w/single groove stem can be substituted in Early Engs.; 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 Engs.; Valves w/single groove stem can be substituted in Early Engs.; 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 Engs.; 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 Engs.; 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 Engs.; .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 Engs.                                           |
| 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 Engs. Combine VE4, VE4D, VE41 Engs. 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 Engs.; 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 |

(continued on next page)



**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 &amp; 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                                                                                                                                                                       |

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**Case Co., J.I.**

*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><br>(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 Engs. (Gas). Combine VA124, W106, 124 Engs. (Gas). Wheel Tractor VA124, W106, 124 Engs. (Gas).</b><br>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 Engs. (Gas). Wheel Tractor G126, 126 Engs. (Gas).</b><br>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                                                                                                    |

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| Combine G126, 126 Engs. (Gas). Wheel Tractor G126, 126 Engs. (Gas). 7<br>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<br>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<br>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                                                                                                                                                                  |

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|                                                                                                                  |                              |                 |                 |                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>9 Combine FK Eng. Wheel Tractor FK Eng.</b><br>(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  | 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                                                                                                                                                                  |
| <b>10 Combine FK Eng. Wheel Tractor FK Eng.</b><br>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                      | FP-V713         |                 | 1.3490" Head Dia., .3095" Stem Dia., 4.4690" O.A.L.                                                                                                                             |
| 16                                                                                                               | Keeper                       | FP-VK123        |                 |                                                                                                                                                                                 |
| <b>QTY</b>                                                                                                       | <b>VALVE GUIDE</b>           | <b>PART NO.</b> | <b>SIZE</b>     | <b>DESCRIPTION</b>                                                                                                                                                              |
| 8                                                                                                                | Guide                        | FP-VG296        |                 | .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                | FP-SL11M        | 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                  | 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                                                                                                                                                   |
| <b>QTY</b>                                                                                                       | <b>PISTON RINGS</b>          | <b>PART NO.</b> | <b>SIZE</b>     | <b>DESCRIPTION</b>                                                                                                                                                              |
| 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                                                                                                                                                                  |
| 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                                                                                                                                                                  |
| <b>11 Wheel Tractor F140 Eng. (Gas)</b><br>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                       | FP-V1748        |                 | Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L.                                                                                                         |
| 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        |                 | Single groove stem; 1.2030" Head Dia., .3392" Stem Dia., 5.1890" O.A.L.                                                                                                         |
| 8                                                                                                                | Keeper                       | FP-VK142        |                 | For drilled stem                                                                                                                                                                |
| 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                                                                                                                                 |
| <b>QTY</b>                                                                                                       | <b>VALVE SEAT</b>            | <b>PART NO.</b> | <b>SIZE</b>     | <b>DESCRIPTION</b>                                                                                                                                                              |
| 4                                                                                                                | Exh.                         | 245-1437-3N     | Std Only        | Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth                                                                                                                          |
| 4                                                                                                                | Exh.                         | FP-24513753     |                 | 1.3795" OD, 1.0625" ID, .1855" Depth                                                                                                                                            |
| 4                                                                                                                | Exh.                         | 245-1437-3      | Std Only        | 1.4425" OD, 1.1880" ID, .2160" Depth                                                                                                                                            |
| 4                                                                                                                | Int.                         | 245-1625-1N     | Std Only        | Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth                                                                                                                          |
| 4                                                                                                                | Int.                         | 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                                                                                                                                            |
| <b>QTY</b>                                                                                                       | <b>VALVE GUIDE</b>           | <b>PART NO.</b> | <b>SIZE</b>     | <b>DESCRIPTION</b>                                                                                                                                                              |
| 8                                                                                                                | Guide                        | FP-VG418        |                 | 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                       | FP-VS356        |                 | 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                     | FP-2212601      |                 | F140, & F4140 Eng.s.; Governor Type; 48 Teeth                                                                                                                                   |
| 1                                                                                                                | Cam Gear                     | 221-2601 +      |                 | F140, & F4140 Eng.s.; Governor Type; 48 Teeth; When depleted use FP-2212601                                                                                                     |
| 1                                                                                                                | Cam Gear                     | FP-2212600      |                 | F140, & F4140 Eng.s.; Replacement O.E. No. F400H310; 48 Teeth                                                                                                                   |

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**Case Co., J.I.**

| <div> <div>Wheel Tractor F140 Eng. (Gas) 11</div> <div>2.3L 140 L-HEAD L4, 3.1875" Bore (Continental Eng.) (cont.)</div> </div>                                       |                         |               |                   |                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------|-------------------|-------------------------------------------------------------------------------------------|
| ENGINE BLOCK & PARTS                                                                                                                                                  |                         |               |                   |                                                                                           |
| QTY                                                                                                                                                                   | GASKET SETS             | PART NO.      | SIZE              | DESCRIPTION                                                                               |
| 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                   |
| 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   |                   | F140, & F4140 Eng.s.; Repl. O.E. No. F400H326; 24 Teeth                                   |
| 1                                                                                                                                                                     | Crank Gear              | 221-2603A +   |                   | F140, & F4140 Eng.s.; Repl. O.E. No. F400H326; 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 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                                                                              |
| QTY                                                                                                                                                                   | PISTON RINGS            | PART NO.      | SIZE              | DESCRIPTION                                                                               |
| 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                            |
| <div> <div>Combine G148, 148, 148G Eng.s. (Gas or LPG). Wheel Tractor G148, 148, 148G Eng.s. (Gas or LPG). 12</div> <div>2.4L 148 L4 (G148), 3.375" Bore</div> </div> |                         |               |                   |                                                                                           |
| CYL. HEAD & PARTS                                                                                                                                                     |                         |               |                   |                                                                                           |
| QTY                                                                                                                                                                   | VALVE                   | PART NO.      | SIZE              | DESCRIPTION                                                                               |
| 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                                                           |
| QTY                                                                                                                                                                   | VALVE SEAT              | PART NO.      | SIZE              | DESCRIPTION                                                                               |
| 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                                                      |
| QTY                                                                                                                                                                   | VALVE GUIDE             | PART NO.      | SIZE              | DESCRIPTION                                                                               |
| 8                                                                                                                                                                     | Guide                   | FP-VG457      |                   | .3430" ID, 2.6870" O.A.L.                                                                 |
| QTY                                                                                                                                                                   | VALVE SPRING            | PART NO.      | SIZE              | DESCRIPTION                                                                               |
| 4                                                                                                                                                                     | Spring                  | FP-VS581      |                   | Exh.; 2.6400" Free Height                                                                 |
| 4                                                                                                                                                                     | Spring                  | FP-A30025     |                   | Int.                                                                                      |
| QTY                                                                                                                                                                   | VALVE SEAL              | PART NO.      | SIZE              | DESCRIPTION                                                                               |
| 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    |
| ENGINE BLOCK & PARTS                                                                                                                                                  |                         |               |                   |                                                                                           |
| QTY                                                                                                                                                                   | GASKET SETS             | PART NO.      | SIZE              | DESCRIPTION                                                                               |
| 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><br>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><br>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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**Case Co., J.I.**

| Wheel Tractor G148B, 148B Engs. (Gas or LPG) 13<br>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<br>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<br>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                                                                         |

(continued on next page)





**Case Co., J.I.**

| Wheel Tractor G159, G159B, 159, 159B Engs. (Gas or LPG) 17<br>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<br>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<br>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><br>(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><br>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><br>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           |                                                                                        |

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**Case Co., J.I.**

*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.)**

| QTY | CONNECTING RODS &<br>BRGS. (cont.) | PART NO.  | SIZE | DESCRIPTION |
|-----|------------------------------------|-----------|------|-------------|
| 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**

| 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 GUIDE          | PART NO.  | SIZE | DESCRIPTION                                                                            |
| 4   | Guide                | FP-G2069  |      | Exh.                                                                                   |
| 4   | Guide                | FP-G2068  |      | Int.                                                                                   |
| QTY | VALVE SPRING         | PART NO.  | SIZE | DESCRIPTION                                                                            |
| 8   | Spring               | FP-A30025 |      |                                                                                        |
| QTY | VALVE MISC.          | PART NO.  | SIZE | DESCRIPTION                                                                            |
| 4   | Rotocap Assy.        | FP-RC117A |      | Exh.                                                                                   |
| QTY | VALVE SEAL           | PART NO.  | SIZE | DESCRIPTION                                                                            |
| 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**

| QTY | GASKET SETS                  | PART NO.    | SIZE | DESCRIPTION                                         |
|-----|------------------------------|-------------|------|-----------------------------------------------------|
| 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             |
| QTY | CAM BEARINGS                 | PART NO.    | SIZE | DESCRIPTION                                         |
| 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**

| 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-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                                                                                                                                               |
| QTY | PISTONS                 | PART NO.    | SIZE | DESCRIPTION                                                                                                                                                   |
| 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. (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. |
| 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-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                 |

(continued on next page)

**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).** **23**  
 3.4L 207 Diesel L4, 4" Bore (cont.)

**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)

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

| ENGINE BLOCK & PARTS |                         |             |                   |                                                                                                                                                         |
|----------------------|-------------------------|-------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| QTY                  | CAM BEARINGS            | PART NO.    | SIZE              | DESCRIPTION                                                                                                                                             |
| 1                    | Cam Set                 | FP-1088M    |                   |                                                                                                                                                         |
| CRANKSHAFT/OIL PUMP  |                         |             |                   |                                                                                                                                                         |
| QTY                  | CRANKSHAFT              | PART NO.    | SIZE              | DESCRIPTION                                                                                                                                             |
| 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                                                                                                                 |
| QTY                  | MAIN BEARINGS           | PART NO.    | SIZE              | DESCRIPTION                                                                                                                                             |
| 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.                                                                                                                     |
| QTY                  | OIL PUMP                | PART NO.    | SIZE              | DESCRIPTION                                                                                                                                             |
| 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                                |
| CYLINDER COMPONENTS  |                         |             |                   |                                                                                                                                                         |
| QTY                  | PISTONS                 | PART NO.    | SIZE              | DESCRIPTION                                                                                                                                             |
| 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. |
| QTY                  | CONNECTING RODS & BRGS. | PART NO.    | SIZE              | DESCRIPTION                                                                                                                                             |
| 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.                                                                                    |

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

| CYL. HEAD & PARTS |                      |          |          |                                                                          |
|-------------------|----------------------|----------|----------|--------------------------------------------------------------------------|
| QTY               | VALVE                | PART NO. | SIZE     | DESCRIPTION                                                              |
| 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                                                       |
| QTY               | VALVE SPRING         | PART NO. | SIZE     | DESCRIPTION                                                              |
| 12                | Spring               | VS-510   |          | Exh. & Int.; 2.0000" Free Height                                         |
| 12                | Spring Insert        | 259-103C |          | .015"; ID 1.030"; Carton of 100                                          |
| QTY               | PUSH RODS            | PART NO. | SIZE     | DESCRIPTION                                                              |
| 12                | Push Rod             | RP-3036  |          | 9.9540" O.A.L.                                                           |
| QTY               | VALVE SEAL           | PART NO. | SIZE     | DESCRIPTION                                                              |
| 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 |
| CAMSHAFT GROUP    |                      |          |          |                                                                          |
| QTY               | TIMING               | PART NO. | SIZE     | DESCRIPTION                                                              |
| 1                 | Timing Chain         | 222-495  |          | Silent type; 50 Links                                                    |
| 1                 | Crank Sprocket       | 223-291  |          | Use w/silent type chain; 19 Teeth                                        |
| QTY               | CAMSHAFT/LIFTER      | PART NO. | SIZE     | DESCRIPTION                                                              |
| 1                 | Camshaft             | CS-380   |          |                                                                          |

(continued on next page)



| Combine H-225 Eng. (Gas) <b>25</b><br>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                                                                                                                                                                                                                           | Prelube                      | 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). <b>26</b><br>Windrower. Trencher. Crawler Tractor. Wheel Skidder. Backhoe.<br>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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| <b>26 Loader. Power Unit. Wheel Tractor "B" Series, 4B3.9 (4-390) (Naturally Aspirated).</b><br><b>(cont.) Windrower. Trencher. Crawler Tractor. Wheel Skidder. Backhoe.</b><br><b>3.9L 239 (3921cc) OHV Diesel L4, 102mm Bore (Cummins Eng.)</b> |                         |              |      |                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------|------|----------------------------------------------------------------------|
| CYL. HEAD & PARTS (cont.)                                                                                                                                                                                                                         |                         |              |      |                                                                      |
| 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 Engs. built after April 2003; Top Hat style; Viton® |
| 8                                                                                                                                                                                                                                                 | Valve Stem Seal         | FP-3921640   |      | Int. & Exh.; For Engs. 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.                                                                 |
| CAMSHAFT GROUP                                                                                                                                                                                                                                    |                         |              |      |                                                                      |
| QTY                                                                                                                                                                                                                                               | CAMSHAFT/LIFTER         | PART NO.     | SIZE | DESCRIPTION                                                          |
| 1                                                                                                                                                                                                                                                 | Camshaft                | FP-3929039   |      |                                                                      |
| 8                                                                                                                                                                                                                                                 | Lifter                  | FP-3931623   |      |                                                                      |
| FUEL SYSTEM & PARTS                                                                                                                                                                                                                               |                         |              |      |                                                                      |
| 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                          |
| COOLING SYSTEM                                                                                                                                                                                                                                    |                         |              |      |                                                                      |
| 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                 |
| ENGINE BLOCK & PARTS                                                                                                                                                                                                                              |                         |              |      |                                                                      |
| 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   |      |                                                                      |
| CRANKSHAFT/OIL PUMP                                                                                                                                                                                                                               |                         |              |      |                                                                      |
| 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 Engs. built after April 2003; Top Hat style; Viton®                |
| 8                   | Valve Stem Seal               | FP-3921640   |      | Int. & Exh.; For Engs. 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  |      |                                                   |

(continued on next page)

**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.                                |
| CRANKSHAFT/OIL PUMP |                      |              |        |                                           |
| 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              |

**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-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 |

(continued on next page)



**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  | FP-3926633WP | STD    | 4BT3.9; C Grade; 10 MM Top Ring Land                                                                                                           |
| 4   | Piston Kit w/Pin & Retainers  | FP-3926634WP | .50MM  | 4BT3.9; 10 MM Top Ring Land                                                                                                                    |
| 4   | Piston Kit w/Pin & Retainers  | FP-3926635WP | 1.00MM | 4BT3.9; 10 MM Top Ring Land                                                                                                                    |
| 4   | Piston w/Retainer & Rings     | FP-3802561   | STD    | 4BT3.9; A Grade; 10 MM Top Ring Land                                                                                                           |
| 4   | Piston w/Retainer & Rings     | FP-3802562   | STD    | 4BT3.9; B Grade; 10 MM Top Ring Land                                                                                                           |
| 4   | Piston w/Retainer & Rings     | FP-3802563   | STD    | 4BT3.9; C Grade; 10 MM Top Ring Land                                                                                                           |
| 4   | Piston w/Retainer & Rings     | FP-3802564   | .50MM  | 4BT3.9; 10 MM Top Ring Land                                                                                                                    |
| 4   | Piston w/Retainer & Rings     | FP-3802565   | 1.00MM | 4BT3.9; 10 MM Top Ring Land                                                                                                                    |
| 4   | Piston w/Pin, Retainer, Rings | FP-PK6631    | STD    | 4BT3.9; A Grade; Naturally Aspirated                                                                                                           |
| 4   | Piston w/Pin, Retainer, Rings | FP-PK6632    | STD    | 4BT3.9; B Grade; 10 MM Top Ring Land                                                                                                           |
| 4   | Piston w/Pin, Retainer, Rings | FP-PK6633    | STD    | 4BT3.9; C Grade; 10 MM Top Ring Land                                                                                                           |
| 4   | Piston w/Pin, Retainer, Rings | FP-PK6634    | .50MM  | 4BT3.9; 10 MM Top Ring Land                                                                                                                    |
| 4   | Piston w/Pin, Retainer, Rings | FP-PK6635    | 1.00MM | 4BT3.9; 10 MM Top Ring Land                                                                                                                    |
| 4   | Piston Body w/o Pin           | FP-3919041   | STD    | 4BTA3.9                                                                                                                                        |
| 4   | Piston Body w/o Pin           | FP-3919044   | .50MM  | 4BTA3.9                                                                                                                                        |
| 4   | Piston Body w/o Pin           | FP-3919045   | 1.00MM | 4BTA3.9                                                                                                                                        |
| 4   | Piston Kit w/Pin & Retainers  | FP-3919041WP | STD    | 4BTA3.9                                                                                                                                        |
| 4   | Piston Kit w/Pin & Retainers  | FP-3919044WP | .50MM  | 4BTA3.9                                                                                                                                        |
| 4   | Piston Kit w/Pin & Retainers  | FP-3919045WP | 1.00MM | 4BTA3.9                                                                                                                                        |
| 4   | Piston w/Retainer & Rings     | FP-3802248   | STD    | 4BTA3.9                                                                                                                                        |
| 4   | Piston w/Retainer & Rings     | FP-3802249   | .50MM  | 4BTA3.9                                                                                                                                        |
| 4   | Piston w/Retainer & Rings     | FP-3802250   | 1.00MM | 4BTA3.9                                                                                                                                        |
| 4   | Piston w/Pin, Retainer, Rings | FP-PK9041    | STD    | 4BTA3.9                                                                                                                                        |
| 4   | Piston w/Pin, Retainer, Rings | FP-PK9044    | .50MM  | 4BTA3.9                                                                                                                                        |
| 4   | Piston w/Pin, Retainer, Rings | FP-PK9045    | 1.00MM | 4BTA3.9                                                                                                                                        |
| 4   | Piston Body w/o Pin           | FP-3928673   | STD    | 4BTA3.9                                                                                                                                        |
| 4   | Piston Body w/o Pin           | FP-3928674   | .50MM  | 4BTA3.9                                                                                                                                        |
| 4   | Piston Body w/o Pin           | FP-3928675   | 1.00MM | 4BTA3.9                                                                                                                                        |
| 4   | Piston Kit w/Pin & Retainers  | FP-3928673WP | STD    | 4BTA3.9                                                                                                                                        |
| 4   | Piston Kit w/Pin & Retainers  | FP-3928674WP | .50MM  | 4BTA3.9                                                                                                                                        |
| 4   | Piston Kit w/Pin & Retainers  | FP-3928675WP | 1.00MM | 4BTA3.9                                                                                                                                        |
| 4   | Piston w/Retainer & Rings     | FP-3802747   | STD    | 4BTA3.9                                                                                                                                        |
| 4   | Piston w/Retainer & Rings     | FP-3802764   | .50MM  | 4BTA3.9                                                                                                                                        |
| 4   | Piston w/Retainer & Rings     | FP-3802765   | 1.00MM | 4BTA3.9                                                                                                                                        |
| 4   | Piston w/Pin, Retainer, Rings | FP-PK8673    | STD    | 4BTA3.9                                                                                                                                        |
| 4   | Piston w/Pin, Retainer, Rings | FP-PK8674    | .50MM  | 4BTA3.9                                                                                                                                        |
| 4   | Piston w/Pin, Retainer, Rings | FP-PK8675    | 1.00MM | 4BTA3.9                                                                                                                                        |
| 4   | Piston Body w/o Pin           | FP-3930187   | STD    | 4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only                                                                                   |
| 4   | Piston Body w/o Pin           | FP-3930188   | .50MM  | 4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only                                                                                   |
| 4   | Piston Body w/o Pin           | FP-3930189   | 1.00MM | 4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only                                                                                   |
| 4   | Piston Kit w/Pin & Retainers  | FP-3930187WP | STD    | 4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only                                                                                   |
| 4   | Piston Kit w/Pin & Retainers  | FP-3930188WP | .50MM  | 4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only                                                                                   |
| 4   | Piston Kit w/Pin & Retainers  | FP-3930189WP | 1.00MM | 4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only                                                                                   |
| 4   | Piston w/Retainer & Rings     | FP-3802757   | STD    | 4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only                                                                                   |
| 4   | Piston w/Retainer & Rings     | FP-3802758   | .50MM  | 4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only                                                                                   |
| 4   | Piston w/Retainer & Rings     | FP-3802759   | 1.00MM | 4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only                                                                                   |
| 4   | Piston w/Pin, Retainer, Rings | FP-PK0187    | STD    | 4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only                                                                                   |
| 4   | Piston w/Pin, Retainer, Rings | FP-PK0188    | .50MM  | 4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only                                                                                   |
| 4   | Piston w/Pin, Retainer, Rings | FP-PK0189    | 1.00MM | 4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only                                                                                   |
| 4   | Pin                           | FP-3934048   |        | Early; For pistons 3907156, 3907157, 3907158, 3907163, 3908815, 3908817                                                                        |
| 4   | Pin                           | FP-3934047   |        | Late; For pistons 3919041, 3919044, 3919045, 3926631, 3926632, 3926633, 3926634, 3926635, 3928673, 3928674, 3928675, 3930187, 3930188, 3930189 |
| 4   | Piston Pin Retainer           | FP-3920691   |        |                                                                                                                                                |
| 4   | Piston Cooling Nozzle         | FP-3901020   |        | Pre- 1991                                                                                                                                      |
| 4   | Piston Cooling Nozzle         | FP-3937214   |        | 1991 to 1996                                                                                                                                   |
| 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                                                                                                                         |

(continued on next page)

**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)                            |
| <b>KITS</b>                                |                               |                |        |                                                                              |
| 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 | VALVE                | PART NO.  | SIZE | DESCRIPTION                                                                            |
|-----|----------------------|-----------|------|----------------------------------------------------------------------------------------|
| 16  | Keeper               | FP-A27872 |      | 251B Eng.                                                                              |
| QTY | VALVE GUIDE          | PART NO.  | SIZE | DESCRIPTION                                                                            |
| 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.                                  |
| QTY | VALVE SPRING         | PART NO.  | SIZE | DESCRIPTION                                                                            |
| 8   | Spring               | FP-A66444 |      | Model 770                                                                              |
| QTY | VALVE MISC.          | PART NO.  | SIZE | DESCRIPTION                                                                            |
| 4   | Rotocap              | FP-A66336 |      | Exh.; 251B Eng.                                                                        |
| QTY | VALVE SEAL           | PART NO.  | SIZE | DESCRIPTION                                                                            |
| 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                        | CAM BEARINGS        | PART NO.   | SIZE      | DESCRIPTION                         |
|----------------------------|---------------------|------------|-----------|-------------------------------------|
| 1                          | Cam Set             | FP-A23577  | 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            | 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             |

(continued on next page)

*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><br>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 Engs. (Diesel). Wheel Tractor A267, A267B, A267BD, A267D, 267, 267B Engs. (Diesel). Wheel Loader A267, A267B, A267BD, A267D, 267, 267B Engs. (Diesel).</b><br>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 Engs.; Model 730                                                                                        |
| 4                                                                                                                                                                                                                                                 | Exhaust                      | FP-A11802       |             | A267D Engs.; Model 730                                                                                        |
| 16                                                                                                                                                                                                                                                | Keeper                       | FP-A27872       |             | A267BD, 4-267BD Engs.; 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 Engs.; Model 730; .4050" ID, 3.2200" O.A.L.                                                       |
| 8                                                                                                                                                                                                                                                 | Guide                        | FP-A11803       |             | Exh. & Int.; A267BD, 4-267BD Engs.; Model 770; .4050" ID, 3.2200" O.A.L.                                      |
| 4                                                                                                                                                                                                                                                 | Guide                        | FP-A26294       |             | Int.; A267D Engs.; 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 Engs.                                                                                                  |
| <b>QTY</b>                                                                                                                                                                                                                                        | <b>VALVE SEAL</b>            | <b>PART NO.</b> | <b>SIZE</b> | <b>DESCRIPTION</b>                                                                                            |
| 8                                                                                                                                                                                                                                                 | Valve Stem Seal              | FP-A58628       |             | A267BD Engs.; 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 Engs. 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 Engs.                                                           |
| 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 Engs.                                                                    |
| <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 Engs.; 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 Engs.; w/1.500" pin dia.; Cast; 3-3/32, 1-1/4 Ring Groove; Flat Head. Alum. w/Ni-Resist Insert |

(continued on next page)



**Combine A267, A267B, A267BD, A267D, 267, 267B Engs. (Diesel). Wheel Tractor A267, 32**  
**A267B, A267BD, A267D, 267, 267B Engs. (Diesel). Wheel Loader A267, A267B, A267BD, (cont.)**  
**A267D, 267, 267B Engs. (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 Engs.; 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 Engs.; 2-3/32, 1-1/4                                                                                                               |
| 4   | Ring Set Single Cylinder     | FP-A40364   | STD      | A267D Engs.; 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 Engs.; 2-3/32, 1-1/4; 2 Cyl Set                                                                                                    |
| 1   | Premium Set                  | FP-A40364S  | STD      | A267D Engs.; 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 Engs.; 2-3/32, 1-1/4 (2 cyl. set)                                                                                                  |
| 4   | Premium Single Cylinder Set  | W-5538KX    | Std Only | A267D Engs.; 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 Engs. 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 Engs. (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  |                                             |

**34 Wheel Tractor HD277 Eng. (Diesel)**  
4.5L 277 OHV Diesel L4, 4" Bore (Continental Eng.)

**CYL. HEAD & PARTS**

| QTY | VALVE        | PART NO.  | SIZE | DESCRIPTION               |
|-----|--------------|-----------|------|---------------------------|
| 16  | Keeper       | VK-140    |      |                           |
| QTY | VALVE GUIDE  | PART NO.  | SIZE | DESCRIPTION               |
| 8   | Guide        | FP-VG483  |      | .4365" ID, 2.8750" O.A.L. |
| QTY | VALVE SPRING | PART NO.  | SIZE | DESCRIPTION               |
| 8   | Spring       | FP-A30025 |      |                           |

**CYLINDER COMPONENTS**

| QTY | PISTONS     | PART NO.   | SIZE | DESCRIPTION |
|-----|-------------|------------|------|-------------|
| 4   | Pin Bushing | FP-1669Y20 |      |             |

**35 Combine JXC Eng. (Gas)**  
4.6L 282 L-HEAD 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-1090M | Std Only |             |

**CRANKSHAFT/OIL PUMP**

| QTY | MAIN BEARINGS   | PART NO.    | SIZE | DESCRIPTION      |
|-----|-----------------|-------------|------|------------------|
| 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       |

**CYLINDER COMPONENTS**

| QTY | PISTONS                     | PART NO.  | SIZE         | DESCRIPTION                      |
|-----|-----------------------------|-----------|--------------|----------------------------------|
| 6   | Pin Bushing                 | FP-1424X  |              | Drilled rod type bushing         |
| 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 |
| QTY | PISTON RINGS                | PART NO.  | SIZE         | DESCRIPTION                      |
| 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                    |

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

**CYL. HEAD & PARTS**

| QTY | VALVE        | PART NO.    | SIZE | DESCRIPTION                                            |
|-----|--------------|-------------|------|--------------------------------------------------------|
| 16  | Keeper       | FP-A27872   |      | 284 Eng.                                               |
| QTY | VALVE SEAT   | PART NO.    | SIZE | DESCRIPTION                                            |
| 4   | Exh.         | FP-24518125 |      | 830 & 840 Models; 1.8175" OD, 1.5000" ID, .2480" Depth |
| QTY | VALVE GUIDE  | PART NO.    | SIZE | DESCRIPTION                                            |
| 8   | Guide        | FP-VG544    |      | 284S Eng.; .4050" ID, 3.5800" O.A.L.                   |
| QTY | VALVE SPRING | PART NO.    | SIZE | DESCRIPTION                                            |
| 8   | Spring       | FP-A21076   |      | 284 Eng.                                               |

**ENGINE BLOCK & PARTS**

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

(continued on next page)



*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 |      |             |

(continued on next page)

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

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

| QTY                 | SEALS - FRONT CRANK     | PART NO.     | SIZE      | DESCRIPTION                                 |
|---------------------|-------------------------|--------------|-----------|---------------------------------------------|
| (cont.)<br>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-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                 | LINERS                  | PART NO.     | SIZE      | DESCRIPTION                                 |
| 4                   | Liner w/Sealing Rings   | FP-A148203WS | STD       | Incl. (2) sealing rings; Flange dia. 5.173" |
| 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                                 |
| 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 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).**  
 5.0L 301 Diesel L4, 4.375" Bore

**CYL. HEAD & PARTS**

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

**ENGINE BLOCK & PARTS**

| QTY | GASKET SETS                  | PART NO.    | SIZE | DESCRIPTION                    |
|-----|------------------------------|-------------|------|--------------------------------|
| 1   | Complete Overhaul Gasket Set | FP-PGE301LC |      | Complete, A301BD Engs.         |
| 1   | Complete Overhaul Gasket Set | FP-PGE301EC |      | Complete, A301D & A301DF Engs. |
| 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            | FP-A62050  |           |                                     |
| 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   | 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             |

(continued on next page)

**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).** **39** (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                                                                                                     |

(continued on next page)

+ Superseded Part Number

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

(continued on next page)



| Combine H-318, LH-318 Engs. (Gas) 40<br>5.2L 318 OHV V8, 3.9063" Bore (Chrysler Eng.) (cont.)                                                                                                                                                                                                                                                                            |                              |                                |      |                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                     | 5024MA Std-1-10-20-30          |      | A-Series aluminum bearings; 3.530" max. flange OD; Pos. 1 upper brg. grooved                                                                                                                     |
| 1                                                                                                                                                                                                                                                                                                                                                                        | Main Set                     | 4923MA 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                     | 224-4166                       |      |                                                                                                                                                                                                  |
| CYLINDER COMPONENTS                                                                                                                                                                                                                                                                                                                                                      |                              |                                |      |                                                                                                                                                                                                  |
| QTY                                                                                                                                                                                                                                                                                                                                                                      | PISTONS                      | PART NO.                       | SIZE | DESCRIPTION                                                                                                                                                                                      |
| 8                                                                                                                                                                                                                                                                                                                                                                        | Powerforged                  | L-2329F30 30                   |      | LH-318 Engs.; 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   | WL-2329F30 30                  |      | LH-318 Engs.; 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                  | 2134Y                          |      |                                                                                                                                                                                                  |
| QTY                                                                                                                                                                                                                                                                                                                                                                      | CONNECTING RODS & BRGS.      | PART NO.                       | SIZE | DESCRIPTION                                                                                                                                                                                      |
| 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     |      |                                                                                                                                                                                                  |
| QTY                                                                                                                                                                                                                                                                                                                                                                      | PISTON RINGS                 | PART NO.                       | SIZE | DESCRIPTION                                                                                                                                                                                      |
| 1                                                                                                                                                                                                                                                                                                                                                                        | Premium Set                  | E-178K Std-20-30-40-60         |      | 2-5/64, 1-3/16                                                                                                                                                                                   |
| 1                                                                                                                                                                                                                                                                                                                                                                        | Standard Set                 | E-178X Std-20-30-40-60         |      | 2-5/64, 1-3/16                                                                                                                                                                                   |
| 8                                                                                                                                                                                                                                                                                                                                                                        | Premium Single Cylinder Set  | WE-178K Std-20-30-40-60        |      | 2-5/64, 1-3/16                                                                                                                                                                                   |
| 8                                                                                                                                                                                                                                                                                                                                                                        | Standard Single Cylinder Set | WE-178X Std-20-30-40-60        |      | 2-5/64, 1-3/16                                                                                                                                                                                   |
| 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). 5.5L 336 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.                                                                                                                                                                                             |

(continued on next page)

|                                                                                                                                                                                                                                                                                                                                                                                            |                              |                 |             |                                                                                                                                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>41</b> Wheel Tractor A336BD, 336, 336B, 336BD Engs. (Diesel). Crawler Tractor A336BD, 336, (cont.) 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). 5.5L 336 Diesel L4, 4.625" Bore |                              |                 |             |                                                                                                                                                                                                                                                                                    |
| <b>CYL. HEAD &amp; PARTS (cont.)</b>                                                                                                                                                                                                                                                                                                                                                       |                              |                 |             |                                                                                                                                                                                                                                                                                    |
| <b>QTY</b>                                                                                                                                                                                                                                                                                                                                                                                 | <b>VALVE SEAL</b>            | <b>PART NO.</b> | <b>SIZE</b> | <b>DESCRIPTION</b>                                                                                                                                                                                                                                                                 |
| 8                                                                                                                                                                                                                                                                                                                                                                                          | 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-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                                                                                                                                                                                                                                  |
| <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>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                                                                                                                                                                                                                                                                                                                                                                                          | 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                                                                                                                                                                                                                                                            |
| <b>CYLINDER COMPONENTS</b>                                                                                                                                                                                                                                                                                                                                                                 |                              |                 |             |                                                                                                                                                                                                                                                                                    |
| <b>QTY</b>                                                                                                                                                                                                                                                                                                                                                                                 | <b>LINERS</b>                | <b>PART NO.</b> | <b>SIZE</b> | <b>DESCRIPTION</b>                                                                                                                                                                                                                                                                 |
| 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                                                                                                                                                                                                                                                             |
| <b>QTY</b>                                                                                                                                                                                                                                                                                                                                                                                 | <b>PISTONS</b>               | <b>PART NO.</b> | <b>SIZE</b> | <b>DESCRIPTION</b>                                                                                                                                                                                                                                                                 |
| 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                       |
| <b>KITS</b> |                          |             |      |                                                                                                                            |
| 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.                                                                                                                                                                                                               |
| <b>CRANKSHAFT/OIL PUMP</b> |                              |               |           |                                                                                                                                                                                                                                   |
| 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                                                                                                                                                                                                           |
| <b>CYLINDER COMPONENTS</b> |                              |               |           |                                                                                                                                                                                                                                   |
| 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)                                                                                                                                                       |

(continued on next page)



|                                                                                                                                                                                                                                                                                                                               |  |  |  |                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|---------------------------------------------------------------|
| <b>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).</b> |  |  |  | <b>42</b><br>(cont.)<br>5.5L 336 Turbo-Diesel L4, 4.625" Bore |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|---------------------------------------------------------------|

| 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.                                                                         |

|                                                           |  |  |  |                                                                            |
|-----------------------------------------------------------|--|--|--|----------------------------------------------------------------------------|
| <b>Wheel Tractor A6.354, H6.354, 6.354 Engs. (Diesel)</b> |  |  |  | <b>43</b><br>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)                                                                                                                                  |

|                                                                                                    |  |  |  |                                                                         |
|----------------------------------------------------------------------------------------------------|--|--|--|-------------------------------------------------------------------------|
| <b>Power Unit. Wheel Tractor "B" Series, 6B5.9 (6-590) (Naturally Aspirated). Crawler Tractor.</b> |  |  |  | <b>44</b><br>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                                    |

(continued on next page)

## 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.)

| CYL. HEAD & PARTS (cont.) |                               |              |      |                                                                                     |
|---------------------------|-------------------------------|--------------|------|-------------------------------------------------------------------------------------|
| 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.                                                                                |
| 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   |      |                                                                                     |
| 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-3929042   |      |                                                                                     |
| 12                        | Lifter                        | FP-3931623   |      |                                                                                     |
| FUEL SYSTEM & PARTS       |                               |              |      |                                                                                     |
| 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      |

(continued on next page)

**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.)**

| QTY | CONNECTING RODS & BRGS.      | 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                     |
| QTY | PISTON RINGS                 | 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**

| QTY | OVERHAUL KIT                  | 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         | FP-6B5.9PREM-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**

| QTY | GASKETS            | 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                                                                  |
| 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 | MISCELLANEOUS      | 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                      |
| 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                                                                 |
| 24  | 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.; 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.                                   |

(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.)

**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 |      |             |

(continued on next page)





| <div> <div>5.9L 359 (5882cc) OHV Turbo-Diesel L6 (24 Valve), 102mm Bore (Cummins Eng.) (cont.)</div> <div>Wheel Skidder ISB 5.9 Engines 46</div> </div> |                               |              |        |                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------|--------|--------------------------------------------|
| ENGINE BLOCK & PARTS (cont.)                                                                                                                            |                               |              |        |                                            |
| QTY                                                                                                                                                     | GASKETS (cont.)               | PART NO.     | SIZE   | DESCRIPTION                                |
| 1                                                                                                                                                       | Hydraulic Pump Gasket         | FP-3008400   |        |                                            |
| QTY                                                                                                                                                     | GASKET SETS                   | PART NO.     | SIZE   | DESCRIPTION                                |
| 1                                                                                                                                                       | Gasket Conversion Set         | FP-3800487 * |        |                                            |
| 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                          |
| QTY                                                                                                                                                     | OIL COOLERS & FILTERS         | PART NO.     | SIZE   | DESCRIPTION                                |
| 1                                                                                                                                                       | Oil Cooler                    | FP-3957544   |        | 7 Plate                                    |
| 1                                                                                                                                                       | Oil Cooler Core Inner Gasket  | FP-3926760   |        |                                            |
| QTY                                                                                                                                                     | FREEZE PLUGS                  | PART NO.     | SIZE   | DESCRIPTION                                |
| 14                                                                                                                                                      | Expansion Plug                | FP-3007635   |        | 1.00" Dia.                                 |
| CRANKSHAFT/OIL PUMP                                                                                                                                     |                               |              |        |                                            |
| QTY                                                                                                                                                     | CRANKSHAFT                    | PART NO.     | SIZE   | DESCRIPTION                                |
| 1                                                                                                                                                       | Crank Gear                    | FP-3929027   |        |                                            |
| 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   |        | Cover                                      |
| 1                                                                                                                                                       | Redi-Sleeve                   | FP-3906080   |        | Front                                      |
| 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-3928493   |        |                                            |
| 1                                                                                                                                                       | Rect. or Square Seal          | FP-3912473   |        | Rear; Rectangular                          |
| 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                                                                                                                                                       | Rect. or Square Seal          | FP-3903475   |        | Tach. drive cover                          |
| 1                                                                                                                                                       | Pick-Up Tube Gasket           | FP-3938157   |        | Oil pick-up tube                           |
| 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 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   |        |                                            |
| QTY                                                                                                                                                     | CONNECTING RODS & BRGS.       | PART NO.     | SIZE   | DESCRIPTION                                |
| 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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\* New Item — Check For Availability

|                                                                                                                                             |                                            |                 |             |                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------|-------------|----------------------------------------------------------------------------|
| <b>46 Wheel Skidder ISB 5.9 Engines</b><br>(cont.) 5.9L 359 (5882cc) OHV Turbo-Diesel L6 (24 Valve), 102mm Bore (Cummins 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>                                                         |
| 12                                                                                                                                          | Rod Bearing Half Upper/Lower               | FP-3901174      | 1.00MM      | For machine split rods                                                     |
| <b>QTY</b>                                                                                                                                  | <b>PISTON RINGS</b>                        | <b>PART NO.</b> | <b>SIZE</b> | <b>DESCRIPTION</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>                                                                                                                                 |                                            |                 |             |                                                                            |
| <b>QTY</b>                                                                                                                                  | <b>OVERHAUL KIT</b>                        | <b>PART NO.</b> | <b>SIZE</b> | <b>DESCRIPTION</b>                                                         |
| 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><br>5.9L 359 (5882cc) OHV Turbo-Diesel L6 (24 Valve), 102mm Bore (Cummins Eng.) |                                            |                 |             |                                                                            |
| <b>CYL. HEAD &amp; PARTS</b>                                                                                                                |                                            |                 |             |                                                                            |
| <b>QTY</b>                                                                                                                                  | <b>GASKETS</b>                             | <b>PART NO.</b> | <b>SIZE</b> | <b>DESCRIPTION</b>                                                         |
| 1                                                                                                                                           | Head Gasket                                | FP-3977063      |             | .061" Thickness                                                            |
| 1                                                                                                                                           | Head Set                                   | FP-4089819      |             |                                                                            |
| <b>QTY</b>                                                                                                                                  | <b>VALVE</b>                               | <b>PART NO.</b> | <b>SIZE</b> | <b>DESCRIPTION</b>                                                         |
| 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.                                                                |
| <b>QTY</b>                                                                                                                                  | <b>VALVE SPRING</b>                        | <b>PART NO.</b> | <b>SIZE</b> | <b>DESCRIPTION</b>                                                         |
| 24                                                                                                                                          | Spring                                     | FP-4936080      |             | Exh. & Int.; 1.8800" Free Height                                           |
| 24                                                                                                                                          | Spring Cap                                 | FP-3943198      |             | Exh. & Int.                                                                |
| <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-3959052      |             |                                                                            |
| 1                                                                                                                                           | Oil Pan Gasket                             | FP-3958165      |             | w/Stamped steel pan, drain on bottom                                       |
| <b>QTY</b>                                                                                                                                  | <b>GASKET SETS</b>                         | <b>PART NO.</b> | <b>SIZE</b> | <b>DESCRIPTION</b>                                                         |
| 1                                                                                                                                           | Gasket Conversion Set                      | FP-4089173      |             |                                                                            |
| <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>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-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>                                                                                                                  |                                            |                 |             |                                                                            |
| <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>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                                                    |
| 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                                                    |

**Case Co., J.I.**

| Wheel Tractor <b>A377B, A377S, 377, 377B Engs. (Gas or LPG)</b> <b>48</b><br>6.2L 377 L6 (Early), 4" Bore                                 |                         |            |           |                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------|-----------|----------------------------------------------------------------------------------------|
| CYL. HEAD & PARTS                                                                                                                         |                         |            |           |                                                                                        |
| 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 |
| ENGINE BLOCK & PARTS                                                                                                                      |                         |            |           |                                                                                        |
| 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                                                                                                                                         | Thrust Washer Set       | FP-A62572S | STD       | Position 5; .156" Thick                                                                |
| 2                                                                                                                                         | Thrust Washer Pc.       | FP-A62572  | STD       | Position 5; 2 Required; .156" Thick                                                    |
| CYLINDER COMPONENTS                                                                                                                       |                         |            |           |                                                                                        |
| 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 <b>377, 377A Engs. (Gas or LPG). Crawler Tractor 377, 377A Engs. (Gas or LPG).</b> <b>49</b><br>6.2L 377 L6 (Late), 4" Bore |                         |            |           |                                                                                        |
| CYL. HEAD & PARTS                                                                                                                         |                         |            |           |                                                                                        |
| 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 |
| ENGINE BLOCK & PARTS                                                                                                                      |                         |            |           |                                                                                        |
| 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.                                 |

(continued on next page)

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

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

| QTY | MAIN BEARINGS (cont.) | PART NO.   | SIZE      | DESCRIPTION                                            |
|-----|-----------------------|------------|-----------|--------------------------------------------------------|
| 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                    |

**CYLINDER COMPONENTS**

| 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. |

**50** Wheel Tractor A377D, 377D Engs. (Diesel). Crawler Tractor A377D, 377D Engs. (Diesel).  
6.2L 377 Diesel L6, 4" Bore

**CYL. HEAD & PARTS**

| QTY | VALVE GUIDE     | PART NO.  | SIZE | DESCRIPTION                     |
|-----|-----------------|-----------|------|---------------------------------|
| 6   | Guide           | FP-A26294 |      | Int.; .4050" ID, 4.3800" O.A.L. |
| QTY | VALVE SEAL      | PART NO.  | SIZE | DESCRIPTION                     |
| 12  | Valve Stem Seal | FP-A58628 |      | O-Ring style                    |

**ENGINE BLOCK & PARTS**

| 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   | Thrust Washer Set | FP-A62572S | STD       | Position 5; .156" Thick                                |
| 2   | Thrust Washer Pc. | FP-A62572  | STD       | Position 5; 2 Required; .156" Thick                    |

**CYLINDER COMPONENTS**

| 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. |

**51** 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

**CYL. HEAD & PARTS**

| QTY | VALVE   | PART NO.  | SIZE | DESCRIPTION                           |
|-----|---------|-----------|------|---------------------------------------|
| 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 Engs. (Diesel). Crawler Tractor 51  
A401B, A401BD, A401D, 401B, 401BD Engs. (Diesel). Wheel Loader A401B, A401BD, (cont.)  
A401D, 401B, 401BD Engs. (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 Engs.; Model 930; .4050" ID, 3.2200" O.A.L. |
| 8   | Guide           | FP-A11803 |      | Exh. & Int.; A401BD Engs.; .4050" ID, 3.2200" O.A.L.    |
| 6   | Guide           | FP-A26294 |      | Int.; A401D Engs.; Model 930; .4050" ID, 4.3800" O.A.L. |
| QTY | VALVE SPRING    | PART NO.  | SIZE | DESCRIPTION                                             |
| 12  | Spring          | FP-A66444 |      | A401BD Engs.                                            |
| 12  | Spring          | FP-A21076 |      | A401D Engs.; Model 930                                  |
| QTY | VALVE SEAL      | PART NO.  | SIZE | DESCRIPTION                                             |
| 12  | Valve Stem Seal | FP-A58628 |      | A401BD Engs.; O-Ring style                              |

**ENGINE BLOCK & PARTS**

| QTY | GASKET SETS                  | PART NO.    | SIZE | DESCRIPTION                                              |
|-----|------------------------------|-------------|------|----------------------------------------------------------|
| 1   | Complete Overhaul Gasket Set | FP-PGE401LC |      | A401BD Engs.                                             |
| 1   | Complete Overhaul Gasket Set | PGE401LC +  |      | A401BD Engs.; When depleted use FP-PGE401LC              |
| 1   | Complete Overhaul Gasket Set | FP-PGE401DM |      | A401D Engs.; 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 Engs.                                                                                         |
| 6   | Liner w/Sealing Rings        | FP-A23658WS  | STD      | A401D Engs.                                                                                          |
| 6   | Cylinder Kit Complete        | FP-A1481351  | STD      | A401BD Engs.                                                                                         |
| 6   | Cylinder Kit Complete        | FP-A418211   | STD      | A401D Engs.; Contains cast-iron piston w/1.359" dia. pin                                             |
| 6   | Cylinder Kit Complete        | FP-A404791   | STD      | A401D Engs.; 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 Engs.; 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 Engs.; 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 Engs.; 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)                                                                           |

(continued on next page)

|                                                                                                                                                                                                                                                       |                                    |                 |             |                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----------------|-------------|----------------------------------------------------------------------------------------------------------------|
| <b>51</b> 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).<br>6.6L 401 Diesel L6, 4.125" Bore |                                    |                 |             |                                                                                                                |
| <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              | 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 |
| <b>52</b> Wheel Tractor 401BDT, 401DT Engs. (Turbo-Diesel). Crawler Tractor 401BDT, 401DT Engs. (Turbo-Diesel). Wheel Loader 401BDT, 401DT Engs. (Turbo-Diesel).<br>6.6L 401 Turbo-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>                                                                                             |
| 24                                                                                                                                                                                                                                                    | Keeper                             | FP-A27872       |             |                                                                                                                |
| <b>QTY</b>                                                                                                                                                                                                                                            | <b>VALVE GUIDE</b>                 | <b>PART NO.</b> | <b>SIZE</b> | <b>DESCRIPTION</b>                                                                                             |
| 12                                                                                                                                                                                                                                                    | Guide                              | FP-A11803       |             | .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       |             |                                                                                                                |
| <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-PGE401LC     |             |                                                                                                                |
| 1                                                                                                                                                                                                                                                     | Complete Overhaul Gasket Set       | PGE401LC +      |             | When depleted use FP-PGE401LC                                                                                  |
| <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-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                                                                            |
| <b>CYLINDER COMPONENTS</b>                                                                                                                                                                                                                            |                                    |                 |             |                                                                                                                |
| <b>QTY</b>                                                                                                                                                                                                                                            | <b>LINERS</b>                      | <b>PART NO.</b> | <b>SIZE</b> | <b>DESCRIPTION</b>                                                                                             |
| 6                                                                                                                                                                                                                                                     | Liner w/Sealing Rings              | FP-A182186WS    | STD         |                                                                                                                |
| 6                                                                                                                                                                                                                                                     | Cylinder Kit Complete              | FP-A1481351     | STD         |                                                                                                                |
| <b>QTY</b>                                                                                                                                                                                                                                            | <b>PISTONS</b>                     | <b>PART NO.</b> | <b>SIZE</b> | <b>DESCRIPTION</b>                                                                                             |
| 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.                                                                            |
| <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>QTY</b>                                                                                                                                                                                                                                            | <b>PISTON RINGS</b>                | <b>PART NO.</b> | <b>SIZE</b> | <b>DESCRIPTION</b>                                                                                             |
| 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)                                                                                     |

(continued on next page)

**Case Co., J.I.**

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     |

(continued on next page)

\* New Item — Check For Availability + Superseded Part Number

**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                            |

(continued on next page)

\* 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 |      |                                                                                                     |

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| 55 Wheel Tractor A451T, 451BT, 451BDT, 451DT, 6-451BDT Engs. (Turbo-Diesel)<br>(cont.) 7.4L 451 Turbo-Diesel L6, 4.375" Bore |                              |              |           |                                                                             |
|------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------|-----------|-----------------------------------------------------------------------------|
| CYL. HEAD & PARTS (cont.)                                                                                                    |                              |              |           |                                                                             |
| QTY                                                                                                                          | VALVE GUIDE                  | PART NO.     | SIZE      | DESCRIPTION                                                                 |
| 12                                                                                                                           | Guide                        | FP-A11803    |           | Exh. & Int.; .4050" ID, 3.2200" O.A.L.                                      |
| QTY                                                                                                                          | VALVE SPRING                 | PART NO.     | SIZE      | DESCRIPTION                                                                 |
| 12                                                                                                                           | Spring                       | FP-A66444    |           | Model 1175, Model 1270; To Ser. No. 8736001                                 |
| QTY                                                                                                                          | VALVE MISC.                  | PART NO.     | SIZE      | DESCRIPTION                                                                 |
| 6                                                                                                                            | Rotocap                      | FP-A66336    |           | Exh.; To Ser. No. 8736001                                                   |
| 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  |           | 451BDT, 6-451BDT 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                                                 |
| 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                                                     |
| CYLINDER COMPONENTS                                                                                                          |                              |              |           |                                                                             |
| QTY                                                                                                                          | LINERS                       | PART NO.     | SIZE      | DESCRIPTION                                                                 |
| 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                                                             |
| QTY                                                                                                                          | PISTONS                      | PART NO.     | SIZE      | DESCRIPTION                                                                 |
| 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  |           |                                                                             |
| 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-A166285   | STD       |                                                                             |
| KITS                                                                                                                         |                              |              |           |                                                                             |
| QTY                                                                                                                          | OVERHAUL KIT                 | PART NO.     | SIZE      | DESCRIPTION                                                                 |
| 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. |

(continued on next page)

**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.  |

(continued on next page)

**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.)

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

| QTY | VALVE (cont.)   | PART NO.   | SIZE | DESCRIPTION                                          |
|-----|-----------------|------------|------|------------------------------------------------------|
| 48  | Keeper          | FP-3900250 |      | Exh. & Int.                                          |
| QTY | VALVE SPRING    | PART NO.   | SIZE | DESCRIPTION                                          |
| 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   |
| QTY | VALVE SEAL      | PART NO.   | SIZE | DESCRIPTION                                          |
| 24  | Valve Stem Seal | FP-3948578 |      | Exh. & Int.; Rubber                                  |

**FUEL SYSTEM & PARTS**

| QTY | FUEL FILTERS & PUMP | PART NO.   | SIZE | DESCRIPTION             |
|-----|---------------------|------------|------|-------------------------|
| 6   | O-Ring              | FP-3029820 |      | Injector seal           |
| 6   | O-Ring              | FP-3867043 |      | Injector Connector seal |

**COOLING SYSTEM**

| QTY | WATER PUMP              | PART NO.   | SIZE | DESCRIPTION  |
|-----|-------------------------|------------|------|--------------|
| 1   | Water Pump - Heavy Duty | FP-4089647 |      |              |
| QTY | THERMOSTAT              | PART NO.   | SIZE | DESCRIPTION  |
| 1   | Thermostat              | FP-3940632 |      | 180 Degree   |
| 1   | Thermostat Gasket       | FP-3913032 |      | Water Outlet |

**ENGINE BLOCK & PARTS**

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

**CRANKSHAFT/OIL PUMP**

| 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 |       | 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                   |
| 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                   |
| QTY | OIL PUMP                | PART NO.   | SIZE  | DESCRIPTION                                     |
| 1   | Oil Suction Tube Gasket | FP-3914302 |       |                                                 |

**CYLINDER COMPONENTS**

| QTY | LINERS                        | PART NO.      | SIZE | DESCRIPTION                                                              |
|-----|-------------------------------|---------------|------|--------------------------------------------------------------------------|
| 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    |      |                                                                          |
| QTY | PISTONS                       | PART NO.      | SIZE | DESCRIPTION                                                              |
| 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>; Engs. 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.)**

| QTY  | CONNECTING RODS & BRGS.  | 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     |
| QTY  | PISTON RINGS             | 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 |                          |              |        |                         |
| QTY  | OVERHAUL KIT             | 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**

| QTY                 | GASKETS                 | PART NO.   | SIZE | DESCRIPTION                                        |
|---------------------|-------------------------|------------|------|----------------------------------------------------|
| 1                   | Valve Cover Gasket      | FP-3905449 |      |                                                    |
| 1                   | Head Gasket             | FP-3935585 |      |                                                    |
| 1                   | Head Set                | FP-4025271 |      | Incl. valve stem seals                             |
| QTY                 | HEAD BOLTS              | 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             |
| QTY                 | VALVE                   | 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 |      |                                                    |
| QTY                 | VALVE SEAT              | PART NO.   | SIZE | DESCRIPTION                                        |
| 6                   | Exh.                    | FP-3929005 |      |                                                    |
| 6                   | Int.                    | FP-3924582 |      |                                                    |
| QTY                 | VALVE GUIDE             | PART NO.   | SIZE | DESCRIPTION                                        |
| 12                  | Guide                   | FP-3923564 |      | Int. & Exh.                                        |
| QTY                 | VALVE SPRING            | 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              |
| QTY                 | VALVE MISC.             | PART NO.   | SIZE | DESCRIPTION                                        |
| 1                   | Oil Filler Cap Gasket   | FP-3902466 |      |                                                    |
| QTY                 | VALVE SEAL              | PART NO.   | SIZE | DESCRIPTION                                        |
| 12                  | Valve Stem Seal         | FP-3927642 |      | Int. & Exh.                                        |
| QTY                 | ROCKER PARTS            | 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 |                         |            |      |                                                    |
| QTY                 | INT. & EXH. MANIFOLDS   | 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-3902773  |      | 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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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>59</b> Combine. Cotton Picker. Loader. Power Unit. Wheel Tractor " <b>C</b> " Series; <b>6CT8.3</b><br>(cont.) <b>(6T-830)(Turbo), 6CTA8.3(6TA-830)(Turbo-Aftercooled).</b> Crawler Tractor. Wheel Loader.<br>Excavator.<br>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    |       |                                                                                                                                                                                                                     |
| CRANKSHAFT/OIL PUMP                                                                                                                                                                                                                                                                             |                         |               |       |                                                                                                                                                                                                                     |
| 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    |       | Includes Pressure Regulator                                                                                                                                                                                         |
| 1                                                                                                                                                                                                                                                                                               | Oil Pump                | FP-3800828    |       |                                                                                                                                                                                                                     |
| 1                                                                                                                                                                                                                                                                                               | Oil Suction Tube Gasket | FP-3914302    |       |                                                                                                                                                                                                                     |
| CYLINDER COMPONENTS                                                                                                                                                                                                                                                                             |                         |               |       |                                                                                                                                                                                                                     |
| 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                                                                                                                                                                                                   |

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+ 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    |        |                                                                |
| 12   | Piston Cooling Nozzle         | FP-3905928    |        | Early; < 91C; Engs. w/6 cooling nozzles                        |
| 12   | Piston Cooling Nozzle         | FP-3928031    |        | Thick-walled block; Late; 91C>; Engs. 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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| <div> <div>Wheel Tractor L10 (LTA10) (4-Valve Cyl. Head) 60</div> <div>10.0L 611 (10000cc) OHV Turbo-Diesel L6 (24 Valve), 125mm Bore (Cummins Eng.) (cont.)</div> </div> |                              |            |      |                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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)<br>(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<br>10.0L 611 (10000cc) OHV Turbo-Diesel L6 (24 Valve), 125mm Bore (Cummins Eng.) (cont.) |                        |               |      |                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|------|---------------------------------------------------------------------|
| COOLING SYSTEM (cont.)                                                                                                                    |                        |               |      |                                                                     |
| QTY                                                                                                                                       | THERMOSTAT             | PART NO.      | SIZE | DESCRIPTION                                                         |
| 1                                                                                                                                         | Thermostat Gasket      | FP-3818841    |      | Thermostat Housing                                                  |
| 1                                                                                                                                         | Rect. or Square Seal   | FP-186780     |      |                                                                     |
| 1                                                                                                                                         | Rect. or Square Seal   | FP-186780     |      |                                                                     |
| QTY                                                                                                                                       | MISCELLANEOUS          | PART NO.      | SIZE | DESCRIPTION                                                         |
| 2                                                                                                                                         | Bearing Support Gasket | FP-3883365    |      |                                                                     |
| ENGINE BLOCK & PARTS                                                                                                                      |                        |               |      |                                                                     |
| QTY                                                                                                                                       | GASKETS                | PART NO.      | SIZE | DESCRIPTION                                                         |
| 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    |      |                                                                     |
| QTY                                                                                                                                       | GASKET SETS            | PART NO.      | SIZE | DESCRIPTION                                                         |
| 1                                                                                                                                         | Gasket Conversion Set  | FP-3803404    |      | Early                                                               |
| QTY                                                                                                                                       | DOWEL PINS             | PART NO.      | SIZE | DESCRIPTION                                                         |
| 1                                                                                                                                         | Dowel Pin              | FP-70550      |      | .312 Dia. X .500 Inch Length                                        |
| QTY                                                                                                                                       | CAM BEARINGS           | PART NO.      | SIZE | DESCRIPTION                                                         |
| 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 +  | STD  | When depleted use FP-2878168                                        |
| QTY                                                                                                                                       | FREEZE PLUGS           | PART NO.      | SIZE | DESCRIPTION                                                         |
| 3                                                                                                                                         | Expansion Plug         | FP-3007635    |      | 1.00" Dia.                                                          |
| 2                                                                                                                                         | Pipe Plug              | FP-3002158    |      |                                                                     |
| QTY                                                                                                                                       | DIPSTICK               | PART NO.      | SIZE | DESCRIPTION                                                         |
| 1                                                                                                                                         | Dipstick               | FP-216484     |      | 90" Long; Blank Universal                                           |
| QTY                                                                                                                                       | MISCELLANEOUS          | PART NO.      | SIZE | DESCRIPTION                                                         |
| 38                                                                                                                                        | Bolt                   | FP-4070463    |      | Short, Gear Cover; 8MM X 1.25MM x 12MM                              |
| 2                                                                                                                                         | Pipe Plug              | FP-3002158    |      |                                                                     |
| CRANKSHAFT/OIL PUMP                                                                                                                       |                        |               |      |                                                                     |
| QTY                                                                                                                                       | CRANKSHAFT             | PART NO.      | SIZE | DESCRIPTION                                                         |
| 1                                                                                                                                         | Crankshaft             | FP-3819989    |      | 5 Hole, Internal Dampner Only                                       |
| QTY                                                                                                                                       | SEALS - FRONT CRANK    | PART NO.      | SIZE | DESCRIPTION                                                         |
| 1                                                                                                                                         | Oil Seal               | FP-3803896    |      | Front; Incl. seal kit & bolts                                       |
| 1                                                                                                                                         | Redi-Sleeve            | FP-3820917    |      | Front                                                               |
| QTY                                                                                                                                       | SEALS - REAR CRANK     | PART NO.      | SIZE | DESCRIPTION                                                         |
| 1                                                                                                                                         | Oil Seal Kit           | FP-3800643    |      | Rear; Dry                                                           |
| 1                                                                                                                                         | Redi-Sleeve            | FP-3819774    |      |                                                                     |
| QTY                                                                                                                                       | MAIN BEARINGS          | PART NO.      | SIZE | DESCRIPTION                                                         |
| 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  |                                                                     |
| QTY                                                                                                                                       | OIL PUMP               | PART NO.      | SIZE | DESCRIPTION                                                         |
| 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)<br>(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                                                      |
| 12                                                                                                                                                     | 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.<br>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 Eng.s; 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<br>(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 Engs. 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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| <div> <div>14.0L 855 OHV Turbo-Diesel L6, 5.5" Bore (Cummins Eng.) (cont.)</div> <div>Wheel Tractor <b>62</b></div> </div> |                              |              |      |                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------|------|------------------------------------------------------------------------------------------------|
| COOLING SYSTEM (cont.)                                                                                                     |                              |              |      |                                                                                                |
| QTY                                                                                                                        | WATER PUMP (cont.)           | PART NO.     | SIZE | DESCRIPTION                                                                                    |
| 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   |      |                                                                                                |
| QTY                                                                                                                        | SEALS - FAN HUB              | PART NO.     | SIZE | DESCRIPTION                                                                                    |
| 1                                                                                                                          | Oil Seal                     | FP-200307    |      | Inner                                                                                          |
| 1                                                                                                                          | Oil Seal                     | FP-3027675   |      | Outer                                                                                          |
| QTY                                                                                                                        | THERMOSTAT                   | PART NO.     | SIZE | DESCRIPTION                                                                                    |
| 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    |      |                                                                                                |
| QTY                                                                                                                        | MISCELLANEOUS                | PART NO.     | SIZE | DESCRIPTION                                                                                    |
| 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                                                                             |
| ENGINE BLOCK & PARTS                                                                                                       |                              |              |      |                                                                                                |
| QTY                                                                                                                        | GASKETS                      | PART NO.     | SIZE | DESCRIPTION                                                                                    |
| 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         |
| QTY                                                                                                                        | GASKET SETS                  | PART NO.     | SIZE | DESCRIPTION                                                                                    |
| 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                            |
| QTY                                                                                                                        | CAM BEARINGS                 | PART NO.     | SIZE | DESCRIPTION                                                                                    |
| 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                                                |
| QTY                                                                                                                        | OIL COOLERS & FILTERS        | PART NO.     | SIZE | DESCRIPTION                                                                                    |
| 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                                                                                     |
| QTY                                                                                                                        | DIPSTICK                     | PART NO.     | SIZE | DESCRIPTION                                                                                    |
| 1                                                                                                                          | Dipstick                     | FP-216484    |      | 90" Long; Blank Universal                                                                      |
| QTY                                                                                                                        | MISCELLANEOUS                | PART NO.     | SIZE | DESCRIPTION                                                                                    |
| 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<br>(cont.) 14.0L 855 OHV Turbo-Diesel L6, 5.5" Bore (Cummins Eng.) |                             |              |        |                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------|-----------------------------|--------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CRANKSHAFT/OIL PUMP                                                                 |                             |              |        |                                                                                                                                                                                                                                                                                            |
| QTY                                                                                 | CRANKSHAFT                  | PART NO.     | SIZE   | DESCRIPTION                                                                                                                                                                                                                                                                                |
| 1                                                                                   | Crankshaft                  | FP-3608833   |        | w/Snub Nose Crankshaft; Snub Nose                                                                                                                                                                                                                                                          |
| 1                                                                                   | Vibration Damper            | FP-217323    |        | 13.55" Dia.; Snub Nose                                                                                                                                                                                                                                                                     |
| 6                                                                                   | Bolt                        | FP-204165    |        | Vibration damper to crankshaft; 5/8" - 18 X 1 5/8"                                                                                                                                                                                                                                         |
| 1                                                                                   | Crank Gear                  | FP-3014614   |        | Front; w/Snub Nose Crankshaft; 36 Teeth; 36 Teeth                                                                                                                                                                                                                                          |
| QTY                                                                                 | SEALS - FRONT CRANK         | PART NO.     | SIZE   | DESCRIPTION                                                                                                                                                                                                                                                                                |
| 1                                                                                   | Oil Seal                    | FP-3006736   |        | Front; w/Snub Nose Crankshaft                                                                                                                                                                                                                                                              |
| 1                                                                                   | Oil Seal                    | FP-3010457   |        | Front; w/Tapered Nose Crankshaft                                                                                                                                                                                                                                                           |
| 1                                                                                   | Redi-Sleeve                 | FP-3006742   |        | Front; w/Snub Nose Crankshaft                                                                                                                                                                                                                                                              |
| QTY                                                                                 | SEALS - REAR CRANK          | PART NO.     | SIZE   | DESCRIPTION                                                                                                                                                                                                                                                                                |
| 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                                                                                                                                                                                                                                                              |
| QTY                                                                                 | MAIN BEARINGS               | PART NO.     | SIZE   | DESCRIPTION                                                                                                                                                                                                                                                                                |
| 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"                                                                                                                                                                                                                                         |
| QTY                                                                                 | OIL PUMP                    | PART NO.     | SIZE   | DESCRIPTION                                                                                                                                                                                                                                                                                |
| 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    |        |                                                                                                                                                                                                                                                                                            |
| CYLINDER COMPONENTS                                                                 |                             |              |        |                                                                                                                                                                                                                                                                                            |
| QTY                                                                                 | LINERS                      | PART NO.     | SIZE   | DESCRIPTION                                                                                                                                                                                                                                                                                |
| 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.                                                                                                                                                                                                                                                |
| QTY                                                                                 | PISTONS                     | PART NO.     | SIZE   | DESCRIPTION                                                                                                                                                                                                                                                                                |
| 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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| <div> <div>Wheel Tractor <b>62</b></div> <div>14.0L 855 OHV Turbo-Diesel L6, 5.5" Bore (Cummins Eng.) (cont.)</div> </div> |                              |               |      |                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------|------|-----------------------------------------------------------------------------------------------------------------|
| CYLINDER COMPONENTS (cont.)                                                                                                |                              |               |      |                                                                                                                 |
| QTY                                                                                                                        | PISTONS (cont.)              | PART NO.      | SIZE | DESCRIPTION                                                                                                     |
| 6                                                                                                                          | Piston Body w/o Pin          | FP-3051555    |      | 14.5:1 C.R.; 9170 Models; Sled Runner Skirt; Single NI-Resist; 4 Rings                                          |
| 6                                                                                                                          | Piston Kit w/Pin & Retainers | FP-3801773WP  | STD  | 14.0:1 C.R.; 9180 Models; Single NI-Resist; 4 Rings; 14.0:1 C.R.                                                |
| 6                                                                                                                          | Piston Kit w/Pin & Retainers | FP-3801770WP  | STD  | 14.5:1 C.R.; 9170 Models; Single NI-Resist; 4 Rings; 14.5:1 C.R.                                                |
| 6                                                                                                                          | Piston With Retainers        | FP-3801773    |      | 14.0:1 C.R.; 9180 Models; Sled Runner Skirt; Single NI-Resist; 4 Rings; 14.0:1 C.R.                             |
| 6                                                                                                                          | Piston With Retainers        | FP-3801770    |      | 14.5:1 C.R.; 9170 Models; Sled Runner Skirt; Single NI-Resist; 4 Rings; 14.5:1 C.R.                             |
| 6                                                                                                                          | Pin                          | FP-191970     |      |                                                                                                                 |
| 12                                                                                                                         | Piston Pin Retainer          | FP-175755     |      | 2 per piston                                                                                                    |
| 6                                                                                                                          | Piston Cooling Nozzle        | FP-3013591    |      |                                                                                                                 |
| 6                                                                                                                          | Pin Bushing                  | FP-187420     |      | 1 piece bushing; 1 piece bushing; 2.20" Width                                                                   |
| 6                                                                                                                          | Bushing                      | FP-116391     |      | Accessory drive bushing; O.E. No. 116391                                                                        |
| 6                                                                                                                          | Bushing                      | FP-132770     |      | Front cover bushing; O.E. No. 132770; w/1.567" ID, 1.697" OD, 1.500" O.A.L.                                     |
| QTY                                                                                                                        | CONNECTING RODS & BRGS.      | PART NO.      | SIZE | DESCRIPTION                                                                                                     |
| 12                                                                                                                         | Con. Rod Bolt                | FP-219153     |      |                                                                                                                 |
| 6                                                                                                                          | Rod Pair                     | FP-214950PR   | 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                     | FP-214951PR   | 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                     | FP-214952PR   | 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 | FP-214950     | STD  | Big Cam 2.500" dia.; Engs. w/1.741" length. brgs.; Used w/con. rod No. 218808                                   |
| 12                                                                                                                         | Rod Bearing Half Upper/Lower | FP-214951     | 10   | Big Cam 2.500" dia.; Engs. w/1.741" length. brgs.; Used w/con. rod No. 218808                                   |
| 12                                                                                                                         | Rod Bearing Half Upper/Lower | FP-214952     | 20   | Big Cam 2.500" dia.; Engs. w/1.741" length. brgs.; Used w/con. rod No. 218808                                   |
| 12                                                                                                                         | Rod Bearing Half Upper/Lower | FP-214953     | 30   | Big Cam 2.500" dia.; Engs. w/1.741" length. brgs.; Used w/con. rod No. 218808                                   |
| 12                                                                                                                         | Rod Bearing Half Upper/Lower | FP-214954     | 40   | Big Cam 2.500" dia.; Engs. w/1.741" length. brgs.; Used w/con. rod No. 218808                                   |
| QTY                                                                                                                        | PISTON RINGS                 | PART NO.      | SIZE | DESCRIPTION                                                                                                     |
| 6                                                                                                                          | Ring Set Single Cylinder     | FP-4089811    | STD  | 9170, 9180 Models                                                                                               |
| KITS                                                                                                                       |                              |               |      |                                                                                                                 |
| QTY                                                                                                                        | OVERHAUL KIT                 | PART NO.      | SIZE | DESCRIPTION                                                                                                     |
| 1                                                                                                                          | In-Frame Overhaul Kit        | FP-855PREMP   |      | Premium Plus; 4 Rings                                                                                           |
| 1                                                                                                                          | Complete Overhaul Kit        | FP-855PREMPOH |      | 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-A43175     | Connecting Rod Bearing Pair  |
| (6)                  | FP-PK0784             | Piston w/Pin, Retainer & Rings | (4)                           | FP-A46052   | Connecting Rod Bearing Pair  | (1)                         | FP-PGE267EC           | Complete Overhaul Gasket Set | (4)                         | FP-A43176     | Connecting Rod Bearing Pair  |
| (6)                  | FP-PK0785             | Piston w/Pin, Retainer & Rings | (4)                           | FP-A46053   | Connecting Rod Bearing Pair  | <b>FP-IFK267L</b>           |                       |                              | (4)                         | FP-A43177     | Connecting Rod Bearing Pair  |
| (6)                  | FP-PK0838             | Piston w/Pin, Retainer & Rings | (4)                           | FP-A46054   | Connecting Rod Bearing Pair  | (4)                         | FP-A1481351           | Cylinder Kit Complete        | (1)                         | FP-7039M      | Main Bearing Set             |
| (6)                  | FP-PK0839             | Piston w/Pin, Retainer & Rings | (1)                           | FP-4397M    | Main Bearing Set             | (4)                         | FP-A43173             | Connecting Rod Bearing Pair  | (1)                         | FP-7039M10    | Main Bearing Set             |
| (6)                  | FP-PK0840             | Piston w/Pin, Retainer & Rings | (1)                           | FP-4397M10  | Main Bearing Set             | (4)                         | FP-A43175             | Connecting Rod Bearing Pair  | (1)                         | FP-7039M20    | Main Bearing Set             |
| (6)                  | FP-PK0841             | Piston w/Pin, Retainer & Rings | (1)                           | FP-4397M20  | Main Bearing Set             | (4)                         | FP-A43176             | Connecting Rod Bearing Pair  | (2)                         | FP-A62572     | Thrust Washer Component      |
| (6)                  | FP-PK0842             | Piston w/Pin, Retainer & Rings | (1)                           | FP-4397M30  | Main Bearing Set             | (4)                         | FP-A43177             | Connecting Rod Bearing Pair  | (2)                         | FP-A62573     | Thrust Washer Component      |
| (6)                  | FP-PK0842             | Piston w/Pin, Retainer & Rings | (1)                           | FP-PGE188EC | Complete Overhaul Gasket Set | (1)                         | FP-7039M              | Main Bearing Set             | (1)                         | FP-PGE336EC   | Complete Overhaul Gasket Set |
| (6)                  | FP-PK0842             | Piston w/Pin, Retainer & Rings | (1)                           | FP-A189524  | Oil Pan Gasket Set           | (1)                         | FP-7039M10            | Main Bearing Set             | <b>FP-IFK336L</b>           |               |                              |
| (6)                  | FP-PK9183             | Piston w/Pin, Retainer & Rings | <b>FP-IFK188L</b>             |             |                              | (1)                         | FP-7039M20            | Main Bearing Set             | (4)                         | FP-A1521771   | Cylinder Kit Complete        |
| (6)                  | FP-PK9184             | Piston w/Pin, Retainer & Rings | (4)                           | FP-A151995  | Cylinder Kit Complete        | (1)                         | FP-A62572S            | Thrust Washer Set            | (4)                         | FP-A166134    | Cylinder Kit Complete        |
| (6)                  | FP-PK9185             | Piston w/Pin, Retainer & Rings | (4)                           | FP-A46050   | Connecting Rod Bearing Pair  | (1)                         | FP-A62573S            | Thrust Washer Set            | (4)                         | FP-CK51233638 | Cylinder Kit Complete        |
| (6)                  | FP-PK9186             | Piston w/Pin, Retainer & Rings | (4)                           | FP-A46052   | Connecting Rod Bearing Pair  | (1)                         | PGE267LC              | Complete Overhaul Gasket Set | (4)                         | FP-A41758     | Connecting Rod Bearing Pair  |
| (6)                  | FP-PK9259             | Piston w/Pin, Retainer & Rings | (4)                           | FP-A46053   | Connecting Rod Bearing Pair  | <b>FP-IFK301E</b>           |                       |                              | (4)                         | FP-A41900     | Connecting Rod Bearing Pair  |
| (6)                  | FP-PK9260             | Piston w/Pin, Retainer & Rings | (4)                           | FP-A46054   | Connecting Rod Bearing Pair  | (4)                         | FP-A429651            | Cylinder Kit Complete        | (4)                         | FP-A41901     | Connecting Rod Bearing Pair  |
| (6)                  | FP-PK9669             | Piston w/Pin, Retainer & Rings | (1)                           | FP-4397M    | Main Bearing Set             | (4)                         | FP-A43173             | Connecting Rod Bearing Pair  | (4)                         | FP-A41902     | Connecting Rod Bearing Pair  |
| (6)                  | FP-PK9670             | Piston w/Pin, Retainer & Rings | (1)                           | FP-4397M10  | Main Bearing Set             | (4)                         | FP-A4317340           | Connecting Rod Bearing Pair  | (4)                         | FP-A43173     | Connecting Rod Bearing Pair  |
| (6)                  | FP-PK9671             | Piston w/Pin, Retainer & Rings | (1)                           | FP-4397M20  | Main Bearing 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-4397M30  | Main Bearing Set             | (4)                         | FP-A43175             | Connecting Rod Bearing Pair  | (4)                         | FP-A43174     | Connecting Rod Bearing Pair  |
| (12)                 | FP-3901172            | Rod Bearing Half Upper/Lower   | (1)                           | FP-PGE207C  | Complete Overhaul Gasket Set | (4)                         | FP-A43176             | Connecting Rod Bearing Pair  | (4)                         | FP-A43175     | Connecting Rod Bearing Pair  |
| (12)                 | FP-3901173            | Rod Bearing Half Upper/Lower   | (1)                           | FP-A189524  | Oil Pan Gasket Set           | (4)                         | FP-A43177             | Connecting Rod Bearing Pair  | (4)                         | FP-A43176     | Connecting Rod Bearing Pair  |
| (12)                 | FP-3901174            | Rod Bearing Half Upper/Lower   | <b>FP-IFK207E</b>             |             |                              | (1)                         | FP-7039M              | Main Bearing Set             | (4)                         | FP-A43177     | Connecting Rod Bearing Pair  |
| (12)                 | FP-3939859            | Rod Bearing Half Upper/Lower   | (4)                           | FP-A151991  | Cylinder Kit Complete        | (1)                         | FP-7039M10            | Main Bearing Set             | (1)                         | FP-7039M      | Main Bearing Set             |
| (6)                  | FP-3967060            | Connecting Rod Bearing Pair    | (4)                           | FP-A50975   | Connecting Rod Bearing Pair  | (1)                         | FP-7039M20            | Main Bearing Set             | (1)                         | FP-7039M10    | Main Bearing Set             |
| (6)                  | FP-3967061            | Connecting Rod Bearing Pair    | (4)                           | FP-A50977   | Connecting Rod Bearing Pair  | (2)                         | FP-A62572             | Thrust Washer Component      | (1)                         | FP-7039M20    | Main Bearing Set             |
| (6)                  | FP-3967062            | Connecting Rod Bearing Pair    | (4)                           | FP-A50978   | Connecting Rod Bearing Pair  | (2)                         | FP-A62573             | Thrust Washer Component      | (2)                         | FP-A62572     | Thrust Washer Component      |
| (6)                  | FP-3967063            | Connecting Rod Bearing Pair    | (4)                           | FP-A50979   | Connecting Rod Bearing Pair  | (1)                         | FP-PGE301EC           | Complete Overhaul Gasket Set | (2)                         | FP-A62573     | Thrust Washer Component      |
| (6)                  | FP-3967064            | Connecting Rod Bearing Pair    | (1)                           | FP-4397M    | Main Bearing Set             | (1)                         | FP-A189510            | Oil Pan Gasket Set           | (1)                         | FP-PGE336LC   | Complete Overhaul Gasket Set |
| (1)                  | FP-3802070            | Main Bearing Set               | (1)                           | FP-4397M10  | Main Bearing Set             | <b>FP-IFK301L</b>           |                       |                              | <b>FP-IFK401E</b>           |               |                              |
| (1)                  | FP-3802071            | Main Bearing Set               | (1)                           | FP-4397M20  | Main Bearing Set             | (4)                         | FP-A460221            | Cylinder Kit Complete        | (6)                         | FP-A404791    | Cylinder Kit Complete        |
| (1)                  | FP-3802072            | Main Bearing Set               | (1)                           | FP-4397M30  | Main Bearing Set             | (4)                         | FP-A43173             | Connecting Rod Bearing Pair  | (6)                         | FP-A418211    | Cylinder Kit Complete        |
| (1)                  | FP-3802073            | Main Bearing Set               | (1)                           | FP-PGE207C  | Complete Overhaul Gasket Set | (4)                         | FP-A4317340           | Connecting Rod Bearing Pair  | (6)                         | FP-A43173     | Connecting Rod Bearing Pair  |
| (1)                  | FP-3802074            | Main Bearing Set               | (1)                           | FP-A189524  | Oil Pan Gasket Set           | (4)                         | FP-A43174             | Connecting Rod Bearing Pair  | (6)                         | FP-A43175     | Connecting Rod Bearing Pair  |
| (1)                  | FP-4090035            | Head Gasket Set                | <b>FP-IFK207L</b>             |             |                              | (4)                         | FP-A43175             | Connecting Rod Bearing Pair  | (6)                         | FP-A43176     | Connecting Rod Bearing Pair  |
| <b>FP-IFKISCQSC</b>  |                       |                                | (4)                           | FP-A46382   | Cylinder Kit Complete        | (4)                         | FP-A43176             | Connecting Rod Bearing Pair  | (6)                         | FP-A43177     | Connecting Rod Bearing Pair  |
| (1)                  | FP-3938160            | Oil Pan Gasket                 | (4)                           | FP-A50975   | Connecting Rod Bearing Pair  | (4)                         | FP-A43177             | Connecting Rod Bearing Pair  | (1)                         | FP-7040M      | Main Bearing Set             |
| (6)                  | FP-LK03208095         | Cylinder Kit Complete          | (4)                           | FP-A50978   | Connecting Rod Bearing Pair  | (1)                         | FP-7039M              | Main Bearing Set             | (1)                         | FP-7040M10    | Main Bearing Set             |
| (6)                  | FP-LK51908095         | Cylinder Kit Complete          | (4)                           | FP-A50979   | Connecting Rod Bearing Pair  | (1)                         | FP-7039M10            | Main Bearing Set             | (1)                         | FP-7040M20    | Main Bearing Set             |
| (6)                  | FP-3800319            | Cylinder Kit Complete          | (1)                           | FP-4397M    | Main Bearing Set             | (1)                         | FP-7039M20            | Main Bearing Set             | (2)                         | FP-A62572S    | Thrust Washer Set            |
| (6)                  | FP-3800321            | Cylinder Kit Complete          | (1)                           | FP-4397M10  | 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-4397M20  | Main Bearing 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-4397M30  | Main Bearing Set             | (1)                         | FP-A189510            | Oil Pan Gasket Set           | (1)                         | FP-PGE401DM   | Complete Overhaul Gasket Set |
| (12)                 | FP-3901432            | Rod Bearing Half Upper/Lower   | (1)                           | FP-PGE207C  | Complete Overhaul Gasket Set | <b>FP-IFK336E</b>           |                       |                              | <b>FP-IFK401L</b>           |               |                              |
| (12)                 | FP-3901433            | Rod Bearing Half Upper/Lower   | (1)                           | FP-A189524  | Oil Pan Gasket Set           | (4)                         | FP-A460251            | Cylinder Kit Complete        | (6)                         | FP-A1481351   | Cylinder Kit Complete        |
| (12)                 | FP-3901434            | Rod Bearing Half Upper/Lower   | <b>FP-IFK267E</b>             |             |                              | (4)                         | FP-CK24852185         | Cylinder Kit Complete        | (6)                         | FP-A43173     | Connecting Rod Bearing Pair  |
| (1)                  | FP-3945917            | Main Bearing Set               | (4)                           | FP-A404791  | Cylinder Kit Complete        | (4)                         | FP-CK61222185         | Cylinder Kit Complete        | (6)                         | FP-A43175     | Connecting Rod Bearing Pair  |
| (1)                  | FP-3945918            | Main Bearing Set               | (4)                           | FP-A418211  | Cylinder Kit Complete        | (4)                         | FP-A41758             | Connecting Rod Bearing Pair  | (6)                         | FP-A43176     | Connecting Rod Bearing Pair  |
| (1)                  | FP-3945919            | Main Bearing Set               | (4)                           | FP-A43173   | Connecting Rod Bearing Pair  | (4)                         | FP-A41900             | Connecting Rod Bearing Pair  | (6)                         | FP-A43177     | Connecting Rod Bearing Pair  |
|                      | (cont'd. next column) |                                | (4)                           | FP-A43175   | Connecting Rod Bearing Pair  |                             | (cont'd. next column) |                              |                             |               | (cont'd. next page)          |



## Engine Kit Bill of Material

| Qty.                        | Part No.      | Description                                   | Qty.                        | Part No.      | Description                  | Qty.                          | Part No.      | Description                  | Qty.                         | Part No.     | Description                   |
|-----------------------------|---------------|-----------------------------------------------|-----------------------------|---------------|------------------------------|-------------------------------|---------------|------------------------------|------------------------------|--------------|-------------------------------|
| <b>FP-IFK401L</b> (cont'd.) |               |                                               | <b>FP-IFK504E</b> (cont'd.) |               |                              | <b>FP-L10PREMOH</b> (cont'd.) |               |                              | <b>FP-OH6B59TA</b> (cont'd.) |              |                               |
| (1)                         | FP-7040M      | Main Bearing Set                              | (2)                         | FP-A62573     | Thrust Washer Component      | (12)                          | FP-3016760    | Rod Bearing Half Upper/Lower | (12)                         | FP-3901173   | Rod Bearing Half Upper/Lower  |
| (1)                         | FP-7040M10    | Main Bearing Set                              | (1)                         | FP-PGE504EC   | Complete Overhaul Gasket Set | (12)                          | FP-3016761    | Rod Bearing Half Upper/Lower | (12)                         | FP-3901174   | Rod Bearing Half Upper/Lower  |
| (1)                         | FP-7040M120   | Main Bearing Set                              | <b>FP-IFK504L</b>           |               |                              | (12)                          | FP-3016762    | Rod Bearing Half Upper/Lower | (12)                         | FP-3939859   | Rod Bearing Half Upper/Lower  |
| (1)                         | FP-A62572S    | Thrust Washer Set                             | (6)                         | FP-A1521771   | Cylinder Kit Complete        | (12)                          | FP-3016763    | Rod Bearing Half Upper/Lower | (1)                          | FP-3802070   | Main Bearing Set              |
| (1)                         | FP-A62573S    | Thrust Washer Set                             | (6)                         | FP-A166134    | Cylinder Kit Complete        | (1)                           | FP-4025120    | Main Bearing Set             | (1)                          | FP-3802071   | Main Bearing Set              |
| (1)                         | FP-PGE401LC   | Complete Overhaul Gasket Set                  | (6)                         | FP-CK51233638 | Cylinder Kit Complete        | (1)                           | FP-4025121    | Main Bearing Set             | (1)                          | FP-3802072   | Main Bearing Set              |
| <b>FP-IFK451E</b>           |               |                                               | (6)                         | FP-CK82353638 | Cylinder Kit Complete        | (1)                           | FP-4025122    | Main Bearing Set             | (1)                          | FP-3802073   | Main Bearing Set              |
| (6)                         | FP-A429951    | Cylinder Kit Complete                         | (6)                         | FP-A41758     | Connecting Rod Bearing Pair  | (1)                           | FP-4025123    | Main Bearing Set             | (1)                          | FP-3802074   | Main Bearing Set              |
| (6)                         | FP-A43173     | Connecting Rod Bearing Pair                   | (6)                         | FP-A41900     | Connecting Rod Bearing Pair  | (1)                           | FP-4025125    | Main Bearing Set             | (1)                          | FP-3802363S  | In-Frame Gasket Set           |
| (6)                         | FP-A4317340   | Connecting Rod Bearing Pair                   | (6)                         | FP-A41901     | Connecting Rod Bearing Pair  | (1)                           | FP-4025126    | Main Bearing Set             | <b>FP-PK12742</b>            |              |                               |
| (6)                         | FP-A43174     | Connecting Rod Bearing Pair                   | (6)                         | FP-A41902     | Connecting Rod Bearing Pair  | (1)                           | FP-4025127    | Main Bearing Set             | (4)                          | FP-3906223WP | Piston Kit w/Pin & Retainers  |
| (6)                         | FP-A43175     | Connecting Rod Bearing Pair                   | (6)                         | FP-A43173     | Connecting Rod Bearing Pair  | (1)                           | FP-4025155    | Head Gasket Set              | (4)                          | FP-3802040   | Ring Set, Single Cylinder     |
| (6)                         | FP-A43176     | Connecting Rod Bearing Pair                   | (6)                         | FP-A43174     | Connecting Rod Bearing Pair  | (1)                           | FP-4089478    | Head Gasket Set              | <b>FP-PK12742B</b>           |              |                               |
| (6)                         | FP-A43177     | Connecting Rod Bearing Pair                   | (6)                         | FP-A4317340   | Connecting Rod Bearing Pair  | (1)                           | FP-3803404    | Conversion Gasket Set        | (6)                          | FP-3906223WP | Piston Kit w/Pin & Retainers  |
| (6)                         | FP-5045M      | Main Bearing Set                              | (6)                         | FP-A43174     | Connecting Rod Bearing Pair  | (1)                           | FP-3882733PS  | Oil Pan Gasket Set           | (6)                          | FP-3802040   | Ring Set, Single Cylinder     |
| (1)                         | FP-5045M10    | Main Bearing Set                              | (6)                         | FP-A43175     | Connecting Rod Bearing Pair  | (1)                           | FP-3803894    | Oil Seal Kit                 | <b>FP-PK22742A</b>           |              |                               |
| (1)                         | FP-5045M120   | Main Bearing Set                              | (6)                         | FP-A43176     | Connecting Rod Bearing Pair  | (1)                           | FP-3804304    | Oil Seal Kit                 | (1)                          | FP-PK22742A  | Piston Kit w/Rings & Bearings |
| (1)                         | FP-5047M      | Main Bearing Set                              | (6)                         | FP-A43177     | Connecting Rod Bearing Pair  | <b>FP-OHISCQSC</b>            |               |                              | <b>FP-PK22742B</b>           |              |                               |
| (1)                         | FP-5047M10    | Main Bearing Set                              | (1)                         | FP-5049M      | Main Bearing Set             | (6)                           | FP-LK03208095 | Cylinder Kit Complete        | (1)                          | FP-PK22742B  | Piston Kit w/Rings & Bearings |
| (1)                         | FP-5047M120   | Main Bearing Set                              | (1)                         | FP-5049M10    | Main Bearing Set             | (6)                           | FP-3800319    | Cylinder Kit Complete        | <b>FP-4B39PREM</b>           |              |                               |
| (1)                         | FP-PGE451EC   | Complete Overhaul Gasket Set                  | (1)                         | FP-5049M120   | Main Bearing Set             | (6)                           | FP-3800321    | Cylinder Kit Complete        | (4)                          | FP-3802030   | Piston w/Retainer & Rings     |
| (1)                         | FP-A189521    | Oil Pan Gasket Set                            | (1)                         | FP-5049M30    | Main Bearing Set             | (12)                          | FP-3901430    | Rod Bearing Half Upper/Lower | (4)                          | FP-3802032   | Piston w/Retainer & Rings     |
| <b>FP-IFK451L</b>           |               |                                               | (1)                         | FP-7040M      | Main Bearing Set             | (12)                          | FP-3901431    | Rod Bearing Half Upper/Lower | (4)                          | FP-3802034   | Piston w/Retainer & Rings     |
| (6)                         | FP-A1514081   | Cylinder Kit Complete                         | (1)                         | FP-7040M10    | Main Bearing Set             | (12)                          | FP-3901432    | Rod Bearing Half Upper/Lower | (4)                          | FP-3802060   | Piston w/Retainer & Rings     |
| (6)                         | FP-A460221    | Cylinder Kit Complete                         | (1)                         | FP-7040M120   | Main Bearing Set             | (12)                          | FP-3901433    | Rod Bearing Half Upper/Lower | (4)                          | FP-3802062   | Piston w/Retainer & Rings     |
| (6)                         | FP-A43173     | Connecting Rod Bearing Pair                   | (1)                         | FP-A62572     | Thrust Washer Component      | (12)                          | FP-3901434    | Rod Bearing Half Upper/Lower | (4)                          | FP-3802064   | Piston w/Retainer & Rings     |
| (6)                         | FP-A4317340   | Connecting Rod Bearing Pair                   | (1)                         | FP-A62573     | Thrust Washer Component      | (1)                           | FP-3945917    | Main Bearing Set             | (4)                          | FP-3802100   | Piston w/Retainer & Rings     |
| (6)                         | FP-A43174     | Connecting Rod Bearing Pair                   | (1)                         | FP-PGE504LC   | Complete Overhaul Gasket Set | (1)                           | FP-3945918    | Main Bearing Set             | (4)                          | FP-3802102   | Piston w/Retainer & Rings     |
| (6)                         | FP-A43175     | Connecting Rod Bearing Pair                   | <b>FP-KST2684A</b>          |               |                              | (1)                           | FP-3945919    | Main Bearing Set             | (4)                          | FP-3802104   | Piston w/Retainer & Rings     |
| (6)                         | FP-A43176     | Connecting Rod Bearing Pair                   | (4)                         | FP-SL2684     | Sleeve Assembly              | (1)                           | FP-4089558    | Head Gasket Set              | (4)                          | FP-3802132   | Piston w/Retainer & Rings     |
| (6)                         | FP-A43177     | Connecting Rod Bearing Pair                   | (4)                         | FP-9320CPA    | Connecting Rod Bearing Pair  | (1)                           | FP-3800343    | Conversion Gasket Set        | (4)                          | FP-3802134   | Piston w/Retainer & Rings     |
| (1)                         | FP-5045M      | Main Bearing Set                              | (1)                         | FP-4154M      | Main Bearing Set             | <b>FP-OH6B59T</b>             |               |                              | (4)                          | FP-3802160   | Piston w/Retainer & Rings     |
| (1)                         | FP-5045M10    | Main Bearing Set                              | (1)                         | FP-2601339    | Gasket Kit                   | (6)                           | FP-3907163WP  | Piston Kit w/Pin & Retainers | (4)                          | FP-3802170   | Piston w/Retainer & Rings     |
| (1)                         | FP-5045M120   | Main Bearing Set                              | <b>FP-KST2684C</b>          |               |                              | (6)                           | FP-3908815WP  | Piston Kit w/Pin & Retainers | (4)                          | FP-3802172   | Piston w/Retainer & Rings     |
| (1)                         | FP-5047M      | Main Bearing Set                              | (4)                         | FP-SL2684     | Sleeve Assembly              | (6)                           | FP-3908816WP  | Piston Kit w/Pin & Retainers | (4)                          | FP-3802174   | Piston w/Retainer & Rings     |
| (1)                         | FP-5047M10    | Main Bearing Set                              | (4)                         | FP-A46050     | Connecting Rod Bearing Pair  | (6)                           | FP-3802230    | Ring Set, Single Cylinder    | (4)                          | FP-3934048   | Piston Pin                    |
| (1)                         | FP-5047M120   | Main Bearing Set                              | (1)                         | FP-4149M      | Main Bearing Set             | (6)                           | FP-3802232    | Ring Set, Single Cylinder    | (8)                          | FP-3901172   | Rod Bearing Half Upper/Lower  |
| (1)                         | FP-PGE451LC   | Complete Overhaul Gasket Set                  | (1)                         | FP-2601339    | Gasket Kit                   | (6)                           | FP-3802234    | Ring Set, Single Cylinder    | (8)                          | FP-3901173   | Rod Bearing Half Upper/Lower  |
| (1)                         | FP-A189521    | Oil Pan Gasket Set                            | <b>FP-L10PREM</b>           |               |                              | (12)                          | FP-3901171    | Rod Bearing Half Upper/Lower | (8)                          | FP-3901174   | Rod Bearing Half Upper/Lower  |
| <b>FP-IFK504E</b>           |               |                                               | (1)                         | FP-3882433PS  | Oil Pan Gasket Set           | (12)                          | FP-3901172    | Rod Bearing Half Upper/Lower | (8)                          | FP-3939859   | Rod Bearing Half Upper/Lower  |
| (6)                         | FP-A460251    | Cylinder Kit Complete                         | (1)                         | FP-3882733PS  | Oil Pan Gasket Set           | (12)                          | FP-3901173    | Rod Bearing Half Upper/Lower | (1)                          | FP-3802010   | Main Bearing Set              |
| (6)                         | FP-CK24852185 | Cylinder Kit Complete                         | (6)                         | FP-3800800    | Cylinder Kit Complete        | (12)                          | FP-3901174    | Rod Bearing Half Upper/Lower | (1)                          | FP-3802011   | Main Bearing Set              |
| (6)                         | FP-CK61222185 | Cylinder Kit Complete                         | (6)                         | FP-3800801    | Cylinder Kit Complete        | (12)                          | FP-3939859    | Rod Bearing Half Upper/Lower | (1)                          | FP-3802012   | Main Bearing Set              |
| (6)                         | FP-A41758     | Connecting Rod Bearing Pair                   | (6)                         | FP-3803974    | Cylinder Kit Complete        | (1)                           | FP-3802070    | Main Bearing Set             | (1)                          | FP-3802013   | Main Bearing Set              |
| (6)                         | FP-A41900     | Connecting Rod Bearing Pair                   | (12)                        | FP-3016760    | Rod Bearing Half Upper/Lower | (1)                           | FP-3802071    | Main Bearing Set             | (1)                          | FP-3802014   | Main Bearing Set              |
| (6)                         | FP-A41901     | Connecting Rod Bearing Pair                   | (12)                        | FP-3016761    | Rod Bearing Half Upper/Lower | (1)                           | FP-3802072    | Main Bearing Set             | (1)                          | FP-3804896S  | In-Frame Gasket Set           |
| (6)                         | FP-A41902     | Connecting Rod Bearing Pair                   | (12)                        | FP-3016762    | Rod Bearing Half Upper/Lower | (1)                           | FP-3802073    | Main Bearing Set             | <b>FP-4B39PREML</b>          |              |                               |
| (6)                         | FP-A43173     | Connecting Rod Bearing Pair                   | (12)                        | FP-3016763    | Rod Bearing Half Upper/Lower | (1)                           | FP-3802074    | Main Bearing Set             | (4)                          | FP-3802248   | Piston w/Retainer & Rings     |
| (6)                         | FP-A4317340   | Connecting Rod Bearing Pair                   | (1)                         | FP-4025120    | Main Bearing Set             | (1)                           | FP-3802363S   | In-Frame Gasket Set          | (4)                          | FP-3802249   | Piston w/Retainer & Rings     |
| (6)                         | FP-A43174     | Connecting Rod Bearing Pair                   | (1)                         | FP-4025121    | Main Bearing Set             | <b>FP-OH6B59TA</b>            |               |                              | (4)                          | FP-3802250   | Piston w/Retainer & Rings     |
| (6)                         | FP-A43175     | Connecting Rod Bearing Pair                   | (1)                         | FP-4025122    | Main Bearing Set             | (6)                           | FP-3907156WP  | Piston Kit w/Pin & Retainers | (4)                          | FP-3802251   | Piston w/Retainer & Rings     |
| (6)                         | FP-A43176     | Connecting Rod Bearing Pair                   | (1)                         | FP-4025123    | Main Bearing Set             | (6)                           | FP-3907157WP  | Piston Kit w/Pin & Retainers | (4)                          | FP-3802252   | Piston w/Retainer & Rings     |
| (6)                         | FP-A43177     | Connecting Rod Bearing Pair                   | (1)                         | FP-4025125    | Main Bearing Set             | (6)                           | FP-3907158WP  | Piston Kit w/Pin & Retainers | (4)                          | FP-3802253   | Piston w/Retainer & Rings     |
| (1)                         | FP-7040M      | Main Bearing Set                              | (1)                         | FP-4025126    | Main Bearing Set             | (6)                           | FP-3802230    | Ring Set, Single Cylinder    | (4)                          | FP-3802487   | Piston w/Retainer & Rings     |
| (1)                         | FP-7040M10    | Main Bearing Set                              | (1)                         | FP-4025127    | Main Bearing Set             | (6)                           | FP-3802232    | Ring Set, Single Cylinder    | (4)                          | FP-3802493   | Piston w/Retainer & Rings     |
| (1)                         | FP-7040M120   | Main Bearing Set                              | (1)                         | FP-4025128    | Main Bearing Set             | (6)                           | FP-3802234    | Ring Set, Single Cylinder    | (4)                          | FP-3802495   | Piston w/Retainer & Rings     |
| (2)                         | FP-A62572     | Thrust Washer Component (cont'd. next column) | (1)                         | FP-4089478    | Head Gasket Set              | (12)                          | FP-3901171    | Rod Bearing Half Upper/Lower | (4)                          | FP-3802562   | Piston w/Retainer & Rings     |
|                             |               |                                               | <b>FP-L10PREMOH</b>         |               |                              | (12)                          | FP-3901172    | Rod Bearing Half Upper/Lower | (4)                          | FP-3802564   | Piston w/Retainer & Rings     |
|                             |               |                                               | (6)                         | FP-3800800    | Cylinder Kit Complete        |                               |               |                              | (4)                          | FP-3802565   | Piston w/Retainer & Rings     |
|                             |               |                                               | (6)                         | FP-3800801    | Cylinder Kit Complete        |                               |               |                              | (4)                          | FP-3934047   | Piston Pin                    |
|                             |               |                                               | (6)                         | FP-3803974    | Cylinder Kit Complete        |                               |               |                              | (8)                          | FP-3901171   | Rod Bearing Half Upper/Lower  |
|                             |               |                                               |                             |               |                              |                               |               |                              | (8)                          | FP-3901172   | Rod Bearing Half Upper/Lower  |
|                             |               |                                               |                             |               |                              |                               |               |                              | (cont'd. next page)          |              |                               |





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## Engine Kit Bill of Material

| Qty.                           | Part No.     | Description                  | Qty.                             | Part No.   | Description                  | Qty. | Part No. | Description | Qty. | Part No. | Description |
|--------------------------------|--------------|------------------------------|----------------------------------|------------|------------------------------|------|----------|-------------|------|----------|-------------|
| <b>FP-855PREMPOH (cont'd.)</b> |              |                              | <b>FP6B5.9PREM-OHL (cont'd.)</b> |            |                              |      |          |             |      |          |             |
| (6)                            | FP-3801768   | Cylinder Kit Complete        | (6)                              | FP-3802564 | Piston w/Retainer & Rings    |      |          |             |      |          |             |
| (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        | (12)                             | FP-3901172 | Rod Bearing Half Upper/Lower |      |          |             |      |          |             |
| (6)                            | FP-3801778   | Cylinder Kit Complete        | (12)                             | FP-3901173 | Rod Bearing Half Upper/Lower |      |          |             |      |          |             |
| (6)                            | FP-3801782   | Cylinder Kit Complete        | (12)                             | FP-3901174 | Rod Bearing Half Upper/Lower |      |          |             |      |          |             |
| (6)                            | FP-3801783   | Cylinder Kit Complete        | (12)                             | FP-3939859 | Rod Bearing Half Upper/Lower |      |          |             |      |          |             |
| (6)                            | FP-3801796   | Cylinder Kit Complete        | (1)                              | FP-3802070 | Main Bearing Set             |      |          |             |      |          |             |
| (6)                            | FP-3801797   | Cylinder Kit Complete        | (1)                              | FP-3802071 | Main Bearing Set             |      |          |             |      |          |             |
| (6)                            | FP-3801798   | Cylinder Kit Complete        | (1)                              | FP-3802072 | Main Bearing Set             |      |          |             |      |          |             |
| (6)                            | FP-3801811   | Cylinder Kit Complete        | (1)                              | FP-3802073 | Main Bearing Set             |      |          |             |      |          |             |
| (6)                            | FP-3801873   | Cylinder Kit Complete        | (1)                              | FP-3802363 | Head Gasket Set              |      |          |             |      |          |             |
| (6)                            | FP-3801875   | Cylinder Kit Complete        | (1)                              | FP-3804897 | Head Gasket Set              |      |          |             |      |          |             |
| (6)                            | FP-3801920   | Cylinder Kit Complete        | (1)                              | FP-4089649 | Head Gasket Set              |      |          |             |      |          |             |
| (6)                            | FP-3803209   | Cylinder Kit Complete        | (1)                              | FP-3802376 | Conversion Gasket Set        |      |          |             |      |          |             |
| (6)                            | FP-3803210   | Cylinder Kit Complete        |                                  |            |                              |      |          |             |      |          |             |
| (6)                            | FP-3803211   | Cylinder Kit Complete        |                                  |            |                              |      |          |             |      |          |             |
| (6)                            | FP-3803212   | Cylinder Kit Complete        |                                  |            |                              |      |          |             |      |          |             |
| (6)                            | FP-3803213   | Cylinder Kit Complete        |                                  |            |                              |      |          |             |      |          |             |
| (6)                            | FP-3803214   | Cylinder Kit Complete        |                                  |            |                              |      |          |             |      |          |             |
| (6)                            | FP-3803221   | Cylinder Kit Complete        |                                  |            |                              |      |          |             |      |          |             |
| (6)                            | FP-3803223   | Cylinder Kit Complete        |                                  |            |                              |      |          |             |      |          |             |
| (6)                            | FP-3803226   | Cylinder Kit Complete        |                                  |            |                              |      |          |             |      |          |             |
| (6)                            | FP-3803228   | Cylinder Kit Complete        |                                  |            |                              |      |          |             |      |          |             |
| (12)                           | FP-203660    | Rod Bearing Half Upper/Lower |                                  |            |                              |      |          |             |      |          |             |
| (12)                           | FP-203661    | Rod Bearing Half Upper/Lower |                                  |            |                              |      |          |             |      |          |             |
| (12)                           | FP-203662    | Rod Bearing Half Upper/Lower |                                  |            |                              |      |          |             |      |          |             |
| (12)                           | FP-203663    | Rod Bearing Half Upper/Lower |                                  |            |                              |      |          |             |      |          |             |
| (12)                           | FP-203664    | Rod Bearing Half Upper/Lower |                                  |            |                              |      |          |             |      |          |             |
| (12)                           | FP-214950    | Rod Bearing Half Upper/Lower |                                  |            |                              |      |          |             |      |          |             |
| (12)                           | FP-214951    | Rod Bearing Half Upper/Lower |                                  |            |                              |      |          |             |      |          |             |
| (12)                           | FP-214952    | Rod Bearing Half Upper/Lower |                                  |            |                              |      |          |             |      |          |             |
| (12)                           | FP-214953    | Rod Bearing Half Upper/Lower |                                  |            |                              |      |          |             |      |          |             |
| (12)                           | FP-214954    | Rod Bearing Half Upper/Lower |                                  |            |                              |      |          |             |      |          |             |
| (1)                            | FP-3801260   | Main Bearing Set             |                                  |            |                              |      |          |             |      |          |             |
| (1)                            | FP-3801261   | Main Bearing Set             |                                  |            |                              |      |          |             |      |          |             |
| (1)                            | FP-3801262   | Main Bearing Set             |                                  |            |                              |      |          |             |      |          |             |
| (1)                            | FP-3801263   | Main Bearing Set             |                                  |            |                              |      |          |             |      |          |             |
| (1)                            | FP-3801264   | Main Bearing Set             |                                  |            |                              |      |          |             |      |          |             |
| (1)                            | FP-3801332   | Head Gasket Set              |                                  |            |                              |      |          |             |      |          |             |
| (1)                            | FP-3801348   | Head Gasket Set              |                                  |            |                              |      |          |             |      |          |             |
| (1)                            | FP-3801451   | Head Gasket Set              |                                  |            |                              |      |          |             |      |          |             |
| (1)                            | FP-380145110 | Head Gasket Set              |                                  |            |                              |      |          |             |      |          |             |
| (1)                            | FP-3801754   | Head Gasket Set              |                                  |            |                              |      |          |             |      |          |             |
| (1)                            | FP-380175410 | Head Gasket Set              |                                  |            |                              |      |          |             |      |          |             |
| (1)                            | FP-3803040   | Head Gasket 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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# Numerical List



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| AT-2084B     | CAS 25, 40                                    | FP-A41901     | CAS 41, 42, 56, 57                                   | FP-G49659      | CAS 22             |
| BFP-3194     | CAS 40                                        | FP-A41902     | CAS 41, 42, 56, 57                                   | FP-IFK1SB624V  | CAS 46             |
| CS-380       | CAS 25                                        | FP-A41967     | CAS 32, 51, 52                                       | FP-IFK1SCQSC   | CAS 58             |
| CS-645       | CAS 40                                        | FP-A41967S    | CAS 32, 51, 52                                       | FP-IFK188E     | CAS 22             |
| E-178K       | CAS 40                                        | FP-A42988     | CAS 41, 56                                           | FP-IFK188L     | CAS 22             |
| E-178X       | CAS 40                                        | FP-A42988S    | CAS 41, 56                                           | FP-IFK207E     | CAS 23             |
| E-196K       | CAS 25                                        | FP-A429951    | CAS 39, 54                                           | FP-IFK207L     | CAS 23             |
| E-196X       | CAS 25                                        | FP-A42996     | CAS 39, 54                                           | FP-IFK267E     | CAS 32             |
| FP-AR73308   | CAS 60                                        | FP-A42996S    | CAS 39                                               | FP-IFK267L     | CAS 32             |
| FP-A11101WP  | CAS 32, 51                                    | FP-A43009     | CAS 22                                               | FP-IFK301E     | CAS 39             |
| FP-A11801    | CAS 32, 51                                    | FP-A43009WS   | CAS 22                                               | FP-IFK301L     | CAS 39             |
| FP-A11802    | CAS 32, 51                                    | FP-A43028     | CAS 39, 54                                           | FP-IFK336E     | CAS 41, 42         |
| FP-A11803    | CAS 32, 39, 41, 42, 51, 52, 54-57             | FP-A43028S    | CAS 39, 54                                           | FP-IFK336L     | CAS 41, 42         |
| FP-A136474   | CAS 23                                        | FP-A43173     | CAS 28, 29, 32, 36, 38, 39, 41, 42, 48-52, 54-57     | FP-IFK401E     | CAS 51             |
| FP-A136474WS | CAS 23                                        | FP-A4317340   | CAS 39, 41, 42, 54-57                                | FP-IFK401L     | CAS 51, 52         |
| FP-A136712   | CAS 22, 23                                    | FP-A43174     | CAS 28, 29, 32, 36, 38, 39, 41, 42, 48-52, 54-57     | FP-IFK451E     | CAS 54             |
| FP-A138235   | CAS 57                                        | FP-A43175     | CAS 28, 29, 32, 36, 38, 39, 41, 42, 48-52, 54-57     | FP-IFK451L     | CAS 54, 55         |
| FP-A138235WP | CAS 57                                        | FP-A43176     | CAS 28, 29, 32, 36, 38, 39, 41, 42, 48-52, 54-57     | FP-IFK504E     | CAS 56, 57         |
| FP-A140607   | CAS 41, 55, 56                                | FP-A43177     | CAS 28, 29, 32, 36, 38, 39, 41, 42, 48-52, 54-57     | FP-IFK504L     | CAS 56, 57         |
| FP-A146697   | CAS 42                                        | FP-A44038     | CAS 22, 23                                           | FP-KST2684A    | CAS 12             |
| FP-A146697WP | CAS 42                                        | FP-A44054     | CAS 42, 57                                           | FP-KST2684C    | CAS 13             |
| FP-A1481351  | CAS 32, 51, 52                                | FP-A44054S    | CAS 42, 57                                           | FP-LK03208095  | CAS 58             |
| FP-A148203   | CAS 39, 54, 55                                | FP-A460221    | CAS 39, 54                                           | FP-LK31638095  | CAS 59             |
| FP-A148203WS | CAS 38, 39, 54, 55                            | FP-A460251    | CAS 41, 56                                           | FP-LK31648095* | CAS 59             |
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| FP-A151244WP | CAS 23                                        | FP-A46053     | CAS 13, 17, 19, 21, 22                               | FP-LK92477792  | CAS 59             |
| FP-A1514081  | CAS 55                                        | FP-A46054     | CAS 13, 17, 19, 21, 22                               | FP-LK92479937  | CAS 59             |
| FP-A151857   | CAS 22                                        | FP-A46382     | CAS 23                                               | FP-L10PREM     | CAS 60             |
| FP-A151892   | CAS 23                                        | FP-A48320     | CAS 41, 56                                           | FP-L10PREMOH   | CAS 60             |
| FP-A151892S  | CAS 23                                        | FP-A48320S    | CAS 41, 56                                           | FP-OHISCQSC    | CAS 58             |
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| FP-A151995   | CAS 22                                        | FP-A50977     | CAS 23                                               | FP-OH6B59TA    | CAS 45             |
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| FP-A152485   | CAS 42, 57                                    | FP-A50979     | CAS 23                                               | FP-PGC300      | CAS 62             |
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| FP-99260   | CAS 28, 29, 32, 36, 38, 39, 48-52, 54-57  | W-9330KX+     | CAS 23              |          |            |
| FP-99400   | CAS 12, 13, 17, 21-23                     | W-934KX       | CAS 14, 15          |          |            |
| FP-99475   | CAS 28, 29, 32, 36, 38, 39, 48-52, 54-57  | W-9596X       | CAS 43              |          |            |
| HT-2011    | CAS 40                                    | 1394          | CAS 2, 4, 8, 15     |          |            |
| HT-2011B   | CAS 40                                    | 14130         | CAS 1               |          |            |
| HT-879     | CAS 40                                    | 14276         | CAS 1               |          |            |
| KT3-361S   | CAS 40                                    | 1451M         | CAS 33              |          |            |
| L-2329F 30 | CAS 40                                    | 1454M         | CAS 25              |          |            |
| MV-1598    | CAS 43                                    | 1473M         | CAS 25              |          |            |
| MV-1598C   | CAS 43                                    | 1484M         | CAS 33, 40          |          |            |
| MV-1771    | CAS 25, 40                                | 2130CP        | CAS 33, 40          |          |            |
| MV-1771C   | CAS 25, 40                                | 2134Y         | CAS 25, 33, 40      |          |            |
| MV-1918    | CAS 25, 40                                | 2134Y20       | CAS 33              |          |            |
| PGE401LC+  | CAS 51, 52                                | 221-2601+     | CAS 11, 24          |          |            |
| PK1-2742+  | CAS 26                                    | 221-2603A+    | CAS 5, 11, 24       |          |            |
| PK1-2743   | CAS 27                                    | 222-348       | CAS 40              |          |            |
| PK1-2744   | CAS 27                                    | 222-361       | CAS 40              |          |            |
| PK2-2742A+ | CAS 26                                    | 222-489       | CAS 24              |          |            |
| PK2-2743A  | CAS 27                                    | 222-495       | CAS 25              |          |            |
| PK2-2744A  | CAS 27                                    | 223-274       | CAS 40              |          |            |
| RP-3030    | CAS 40                                    | 223-291       | CAS 25              |          |            |
| RP-3036    | CAS 25                                    | 223-358       | CAS 40              |          |            |
| RP-3194    | CAS 40                                    | 223-359       | CAS 40              |          |            |
| R-861      | CAS 40                                    | 224-4165C     | CAS 25              |          |            |
| R-861B     | CAS 40                                    | 224-4166      | CAS 40              |          |            |
| R-862      | CAS 40                                    | 2375CP        | CAS 25              |          |            |
| R-862B     | CAS 40                                    | 244NP         | CAS 25              |          |            |
| SL-15M     | CAS 15                                    | 245-1375-4    | CAS 14              |          |            |
| ST-2001    | CAS 6, 12, 13, 17, 19, 21, 22, 28, 48, 49 | 245-1437-3    | CAS 6, 7, 11-13, 24 |          |            |
| ST-2001BC  | CAS 6, 12, 13, 17, 19, 21, 22, 28, 48, 49 | 245-1437-3N   | CAS 11, 24          |          |            |
| ST-2004    | CAS 43                                    | 245-1500-1    | CAS 14              |          |            |
| ST-2004BC  | CAS 43                                    | 245-1625-1    | CAS 5, 11, 24       |          |            |
| ST-2007    | CAS 30                                    | 245-1625-1N   | CAS 11, 24          |          |            |
| ST-2048    | CAS 40                                    | 245-1687-2    | CAS 40              |          |            |
| VG-5033    | CAS 40                                    | 245-1687-2N   | CAS 40              |          |            |
| VG-5062    | CAS 40                                    | 245-1937-1    | CAS 40              |          |            |
| VG-855     | CAS 15                                    | 259-103C      | CAS 25              |          |            |
| VK-115     | CAS 15                                    | 260-1004      | CAS 25              |          |            |
| VK-115B    | CAS 15                                    | 260-1121      | CAS 40              |          |            |
| VK-138     | CAS 40                                    | 260-1154      | CAS 40              |          |            |
| VK-138B    | CAS 40                                    | 260-1339      | CAS 12, 13          |          |            |
| VK-138R    | CAS 40                                    | 260-1355      | CAS 11              |          |            |
| VK-140     | CAS 31, 34                                | 3103          | CAS 33, 40          |          |            |
| VK-144     | CAS 1, 2, 5                               | 3160CP        | CAS 37              |          |            |
| VK-144R    | CAS 1, 2, 4, 5, 11, 15                    | 3695RA        | CAS 25              |          |            |
| VK-174     | CAS 25, 40                                | 39520         | CAS 15              |          |            |
| VK-174R    | CAS 25, 40                                | 39590         | CAS 15              |          |            |
| VK-66      | CAS 25, 40                                | 4092M         | CAS 25              |          |            |
| VK-66R     | CAS 25, 40                                | 415138        | CAS 28, 29, 32, 36  |          |            |
| VS-1435    | CAS 40                                    | 453A          | CAS 8, 15           |          |            |
| VS-1435B   | CAS 40                                    | 4923MA        | CAS 33, 40          |          |            |
| VS-510     | CAS 25, 40                                | 5024MA        | CAS 40              |          |            |
| VS-680     | CAS 40                                    | 5070M         | CAS 25              |          |            |
| V-1343     | CAS 40                                    | 5090KX+       | CAS 1, 2            |          |            |
| V-1344     | CAS 40                                    | 5414          | CAS 33, 40          |          |            |
| V-1389     | CAS 40                                    | 6-2375CP      | CAS 25              |          |            |
| V-1434     | CAS 25                                    | 6-3695RA      | CAS 25              |          |            |
| V-1722     | CAS 40                                    | 8-2130CA 60   | CAS 33, 40          |          |            |
| V-2029     | CAS 40                                    | 8-2130CP      | CAS 33, 40          |          |            |
| V-2029B 15 | CAS 40                                    | 8-2130CP 10X2 | CAS 33              |          |            |
| WE-178K    | CAS 40                                    | 8649V         | CAS 5, 11, 18, 24   |          |            |
| WE-178X    | CAS 40                                    | 8649V20       | CAS 5, 11, 18, 24   |          |            |
|            |                                           | 8649XA        | CAS 5, 11, 18, 24   |          |            |
|            |                                           | 8649XAS       | CAS 5, 11, 18, 24   |          |            |
|            |                                           | 88218         | CAS 33, 40          |          |            |



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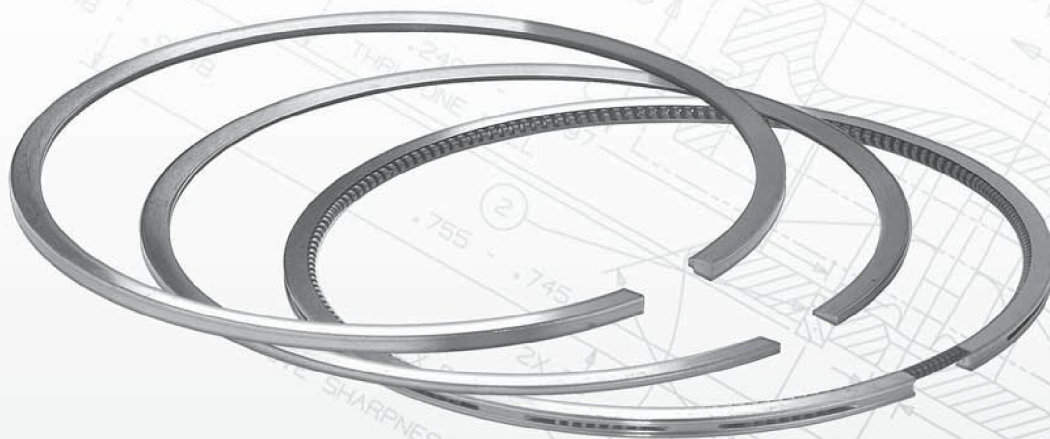
# NOTES





## **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.





## 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<br>OE Part No. | Cummins<br>OE Part No. | FP Diesel<br>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<br>OE Part No. | Cummins<br>OE Part No. | FP Diesel<br>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

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| Case<br>OE Part No. | Cummins<br>OE Part No. | FP Diesel<br>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> |

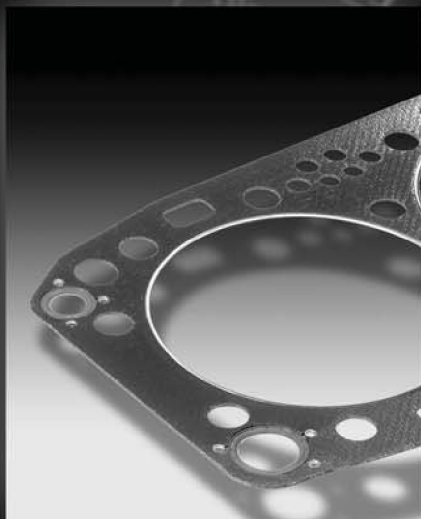
| Case<br>OE Part No. | Cummins<br>OE Part No. | FP Diesel<br>No.  |
|---------------------|------------------------|-------------------|
| J927154             | 3927154                | <b>FP-3905443</b> |
| J927154             | 3905443                | <b>FP-3905443</b> |
| J928168             | 3935585                | <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



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