



Weatherly Index No. 002

CATALOG NO.
CA0080

NOVEMBER 2012



JOHN DEERE®
ENGINES
Replacement Parts Catalog

GLOBAL TECHNOLOGY behind every part

 **FEDERAL
MOGUL®**

RELY ON US TO MAXIMIZE PERFORMANCE.



Choosing the right replacement components for a hard working engine is key to ensuring trouble-free performance

FP Diesel components and kits have been proven for years in medium and heavy-duty service engines across the country. These parts are designed using the latest in computer-aided design (CAD) and computer-aided engineering (CAE) technology, and are thoroughly researched to meet the most demanding specifications.

With FP Diesel you get a better solution: premium technologies engineered to address the unique demands placed on all diesel engines – and maximize productivity. It's a rebuild parts choice you can make with confidence.



In-frame and Overhaul Kits | Camshafts | Oil Coolers
Engine Bearings | Engine Oil Seals | Expansion Plugs
Fuel Pumps | Fuel Injector Components | Gaskets
Lifters | Oil Pumps | Piston Rings | Pistons | Push Rods
Rocker Arm Parts | Sleeves | Timing Components
Turbocharger Components | Valvetrain Parts
Water Pumps & Thermostats

***Rely on us today for the complete range of
FP Diesel replacement engine components!***





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FP Diesel CA0080 John Deere Engine Parts Catalog

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The header for each block listed is designed to help you identify the correct engine application. Special information regarding a specific part is located to the right of the part number listing. The ENGINE KIT part number is in the engine listing. The Bill of Materials for the kits are listed in the back of the catalog.

Engine components are grouped in the following order:

- 1st** Cylinder Head and Parts
- 2nd** Intake & 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 catalog is sorted as follows::

- 1st** by ENGINE DISPLACEMENT.
- 2nd** by BORE DIAMETER. Engines with the same displacement are sorted by bore diameter.
- 3rd** By USAGE. The engines are listed by Serial Number in increasing sequence and by Early, Mid, and Late production serial numbers.
- 4th** By INDUCTION SYSTEM. Naturally aspirated engines will be listed before Turbocharged engines.

Many of the headers will include serial number listings to provide added assurance that the correct listing is being used.

General Information

This catalog is designed to identify the major components, assemblies and kits used in John Deere engines in construction, agricultural, industrial and marine applications.

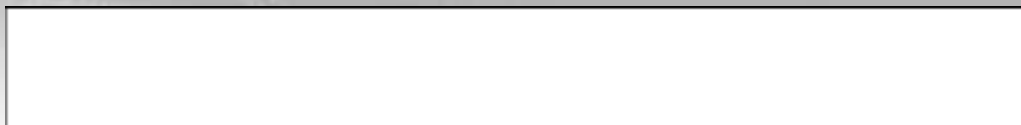
The catalog is organized by engine model. Each section is subdivided into groups that coincide with the various engine assemblies and components.

FP Diesel uses a part numbering system similar to that used by John Deere OEM numbers. In most instances, the FP Diesel part number add a "FP-" prefix to the existing core number.

John Deere Part Number R12345
FP Diesel Part Number FP-R12345

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.





Engine Identification

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To specify the correct part for your particular engine, you must have all the information from the engine data plate, usually affixed to the side of the engine block. In some cases you will need the casting number on the engine block and the casting number on the connecting rod.

300 SERIES: NATURALLY ASPIRATED & TURBOCHARGED

3 Cylinder Models: 3-152, 3-164, 3-179, 3029
4 Cylinder Models: 4-202, 4-219, 4-239, 4-276, 4039, 4045
6 Cylinder Models: 6-303, 6-329, 6-359, 6-414, 6059, 6068

350 SERIES: NATURALLY ASPIRATED, TURBOCHARGED & AFTERCOOLED

3 Cylinder Models: 2.9L Powertech
4 Cylinder Models: 4.5L Powertech
6 Cylinder Models: 6.8L Powertech

400 SERIES: NATURALLY ASPIRATED, TURBOCHARGED & AFTERCOOLED

4 Cylinder Models: 4-270
6 Cylinder Models: 6-404, 6-466, 6076

450 SERIES: NATURALLY ASPIRATED, TURBOCHARGED & AFTERCOOLED

6 Cylinder Models: 6081, 8.1L Powertech

500 SERIES: NATURALLY ASPIRATED, TURBOCHARGED & AFTERCOOLED

6 Cylinder Models: 6-531, 6-619

550 SERIES: NATURALLY ASPIRATED, TURBOCHARGED & AFTERCOOLED

6 Cylinder Models: 10.5L Powertech

650 SERIES: NATURALLY ASPIRATED, TURBOCHARGED & AFTERCOOLED

6 Cylinder Models: 12.5L Powertech

John Deere® Engines are identified by the engine Serial Number Plate. The plate will list the Serial Number, Number of Cylinders, Engine Displacement in Liters or in Cubic Inches, the fuel option, Naturally Aspirated, Turbo, or Turbo Aftercooled (Intercooled). The plate can also have the country in which the engine was manufactured.

There will also be a plate that will list the Engine Option Codes. Each code is a four digit number. The first two numbers of the four digit codes identify a specific group of parts or area of the engine. The other two give a specific option of the parts and their application. If an engine is ordered without a particular component, the last two numbers will be "99".

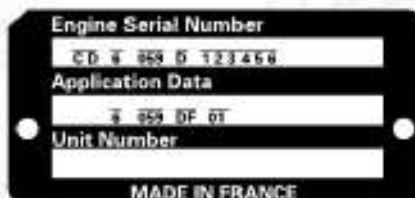
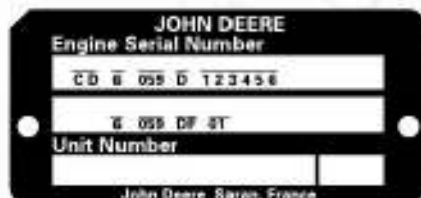
There also may be Serial Number breaks listed in the part listings. The FP Diesel listing will refer to this as Code or Codes if this is required in the selection of components. Examples of John Deere Serial Number and Engine Option Code plates are on the pages following.



Engine Identification

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ENGINE SERIAL NUMBER PLATE (EXC. POWERTECH & POWER UNITS)



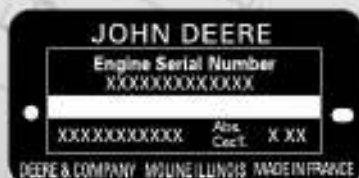
- ① Designates engine manufacturer
- ② Designates number of cylinders
- ③ Designates total displacement (in Liter)
- ④ Designates the type of aspiration
- ⑤ Designates engine serial number
- ⑥ Designates engine user
- ⑦ Designates the version

CD – SARAN
6
059 (5.9 Liter)(Bore 4.19" x Stroke 4.33")
D – Naturally-aspirated Diesel
T – Turbocharged Diesel
123456 (Six Digits)
F (OEM)
001 (Three Digits)
092 (Repower Engine)

ENGINE SERIAL NUMBER PLATE – POWERTECH ENGINES



DUBUQUE OPTION



SARAN OPTION



TORREÓN OPTION

- ① Designates engine manufacturer
- ② Designates number of cylinders and Liters
- ③ Designates fuel type or special conditions
- ④ Designates engine serial number
- ⑤ Designates the engine application and aspiration.

T – John Deere Dubuque works
6068 (6.8 Liter)
HF – Turbocharged natural gas engine
123456
6068HFN51 (with Turbocharger)
6068HFN50 (with Turbocharger)



Engine Identification

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ENGINE SERIAL NUMBER PLATE – POWER UNITS

Each power unit has its own individual serial number. The power unit serial number plate is located near the fuel pump on the right hand side of the cylinder block.

① ② ③ ④ ⑤ ⑥ ⑦
M 43NA 010001 T

POWER UNITS UP TO SERIAL NUMBER 185199

- ① This first letter designates the engine
- ② This number designates the series
- ③ This number designates the fuel type of engine
- ④ This letter designates the using factory
- ⑤ This letter designates the engine variation and application
- ⑥ These six digits designate the portion of the power unit serial number shown in the serial number column.
- ⑦ This letter designates the manufacturer of John Deere Dubuque Works the power unit.

M – Engine
4 – 135 or 152
1 – Gasoline
3 – Diesel
E – Ottumwa Works
N – Des Moines Works
A – Initial Design
B – First variation
C – Second Variation

① ② ③ ④ ⑤ ⑥ ⑦
3 152 D N – 01 000000

POWER UNITS FROM SERIAL NUMBER 185200-UP

- ① This number designates the number of cylinders
- ② These numbers designate the cubic inch displacement
- ③ This letter designates the fuel type of engine
- ④ This letter designates the using factory
- ⑤ The dash is used for separation
- ⑥ These numbers designate the engine version
- ⑦ These six numbers designate the portion of the power unit serial number shown in the serial number.

3 – Three Cylinder
135 – 135 cubic inch (2212 CM3)
152 – 153 cubic inch (2491 CM3)
D – Diesel
G – Gasoline
E – Ottumwa Works
N – Des Moines Works
01 – Initial Design
02 – First Variation

POWER UNITS ENGINE OPTION CODE LABEL

JOHN DEERE									
N° DE COMMANDE : 181688428					N°. LOAD : 859647				
-	18	1102	1202	1301	1404	1501	1664	1703	
1903	2004	2101	2204	2403	2803	2902	3010	3101	
3502-	3601-	3702-	3901	4005	4199	4399	4499	4599	
4603	4708-	475F	4802-	4901-	5001-	5101-	5299	5512	
5601	5906-	6206-	6904	9801-	MT05-				

CONTROLE PAR (INSPECTED BY): *** →

CD37240





Global Technology Behind Every Part



Your complete source for premium replacement parts for John Deere®

Products Available

FP Diesel offers replacement parts for the following John Deere® engines:

300 SERIES

400 SERIES

500 SERIES

2.9D Powertech

2.9T Powertech

4.5D Powertech

4.5T Powertech

6.8D Powertech

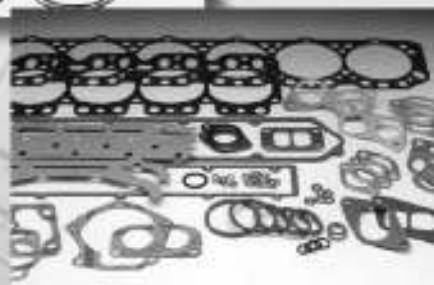
6.8T Powertech

8.1T Powertech

9.0L Powertech

10.5L Powertech

12.5L Powertech



See the matrix on the next page for a complete listing of parts and individual engine models.

When you demand precision-engineered replacement parts for John Deere® and you need them fast, turn to FP Diesel, the global leader in heavy-duty powertrain components.

From in-frame engine kits and cylinder kits to a full line of engine and sealing parts, FP Diesel components offer the best technologies for replacement parts for heavy-duty engine applications.

24-hour online ordering is available through the Federal-Mogul eConnect system. Plus, your FP Diesel parts are backed by a comprehensive warranty program.

Choose FP Diesel for the powertrain technologies that thrive in today's hardest working engines. OE innovation and aftermarket solutions — that's the FP Diesel exclusive advantage.





Global Technology Behind Every Part

Replacement Parts for John Deere® Available from FP Diesel

FP Diesel offers a broad range of in-frame and overhaul kits and related components for 300 Series, 400 Series, 500 Series, 2.9D Powertech, 2.9T Powertech, 4.5D Powertech, 4.5T Powertech, 6.8D Powertech, 6.8T Powertech, 8.1T Powertech, 9.0L Powertech, 10.5L Powertech, and 12.5L Powertech engines.

Engine	300 S*	400 S**	500 S***	2.9D PT	2.9T PT	4.5D PT	4.5T PT	6.8D PT	6.8T PT	8.1T PT	9.0L PT	10.5L PT	12.5L PT
Main & Rod Bearings	•	•	•	•	•	•	•	•	•	•	•	•	•
Camshafts		•											
Camshaft Bushings	•	•	•	•	•	•	•	•	•	•	•	•	•
Crankshafts	•	•											
Crankshaft Seals	•	•	•	•	•	•	•			•	•	•	•
Cylinder Kits	•	•	•	•	•	•	•	•	•	•	•	•	•
Gasket Sets	•	•	•	•	•	•	•	•	•	•	•	•	•
In-Frame Engine Kits	•	•	•	•	•	•	•	•	•		•	•	•
Overhaul Kits	•	•	•										
Liners	•	•	•	•	•	•	•	•	•	•	•	•	•
Pistons	•	•	•	•	•	•	•	•	•	•	•	•	•
Piston Rings	•	•	•	•	•	•	•	•	•	•	•	•	•
Rocker Cover Gaskets	•	•	•	•	•	•	•	•	•	•	•	•	•
Pan Gaskets	•	•	•	•	•	•	•	•	•	•	•	•	•
Head Gaskets	•	•	•	•	•	•	•	•	•	•	•	•	•
Valvetrain	•	•	•	•	•	•	•			•	•	•	•
Oil Coolers		•											
Rod Bushings	•	•	•			•	•	•	•	•	•	•	•
Rod Bolts	•	•	•	•	•	•	•	•	•	•	•	•	•
Thermostats	•	•	•			•	•			•		•	•
Water Pump Overhaul Kits	•	•	•	•	•								

* 300 Series Engines: 152, 202, 303, 164, 219, 329, 179, 239, 359, 3029, 4039, 6059, 276, 414, 4045, 6068

** 400 Series Engines: 270, 404, 466, 6076

*** 500 Series Engines: 531D, T, A; 619T, A

The Complete Power Package

Restoring the power and durability of a large-displacement diesel or natural gas engine requires the best replacement engine technologies and components. Having an extensive commercial-engine OE portfolio is absolutely imperative. Being a global manufacturer means investing in advanced technologies and on a daily basis working to create engine and sealing system solutions that address the dynamic forces found in each generation of engines.

Federal-Mogul is instrumental in the development of every new generation of

diesel engine technology, with a proven commitment to best-in-class product performance and reliability. The company's global research centers are pioneering the use of new materials and designs that will become tomorrow's industry standards. Consistent deployment of leading-edge technologies across this extensive research network ultimately means better designs for replacement applications.



FP Diesel Philosophy

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

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

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



Construction



Agriculture



On-Highway



Marine

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Manufacturing

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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 standards 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 (continued)

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.**





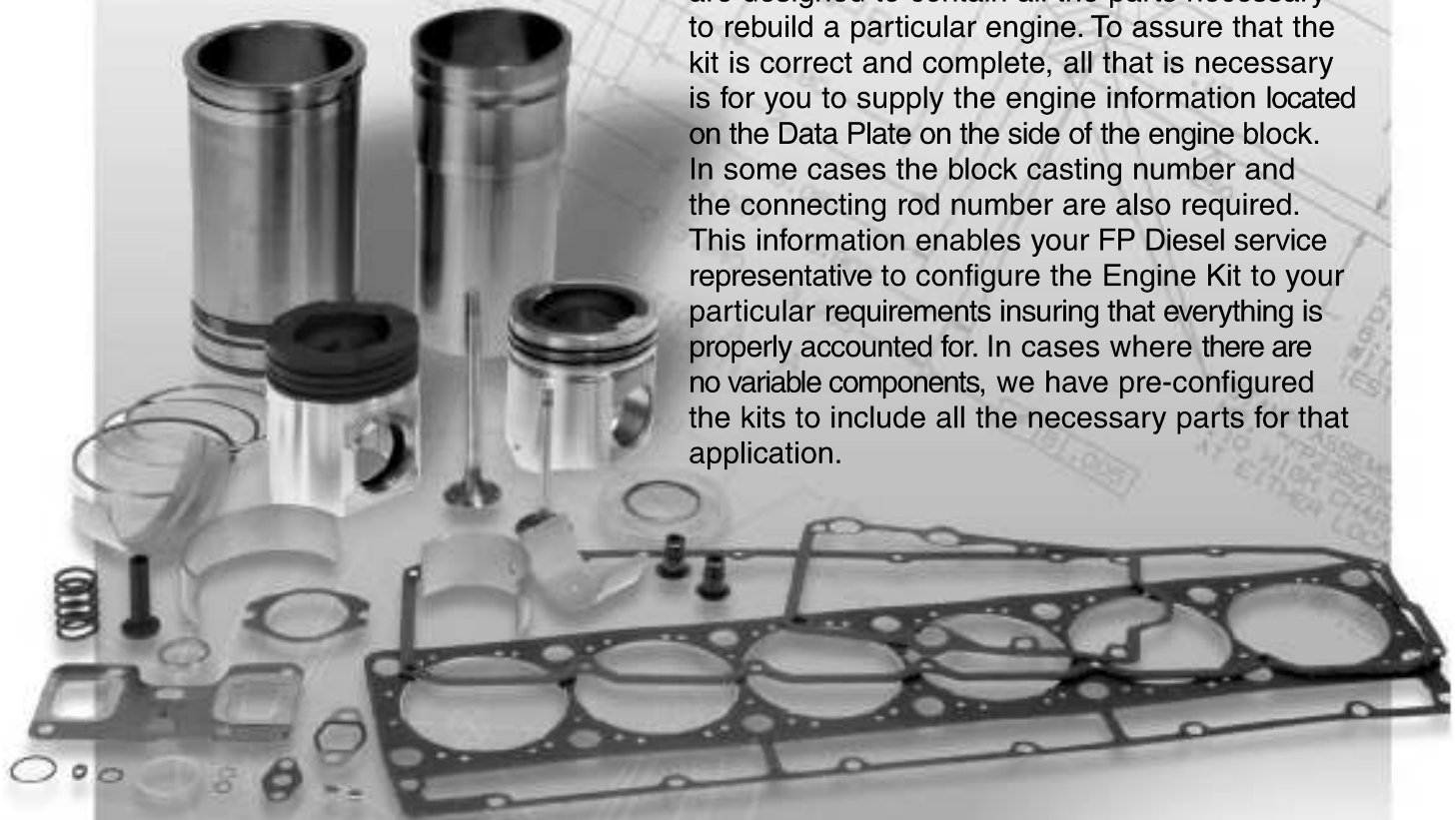
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The FP Diesel Engine Kit program allows you to select a kit tailored to the job at hand. Whether performing a complete overhaul or in-frame repair, FP Diesel engine kits contain all the necessary components to complete the rebuild job. This comprehensive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





How To Order Overhaul & In-frame 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, our engine kits contains all of the necessary components to complete the rebuild.

STEP ONE Gather the necessary engine information

To make sure you order and receive the exact kit you need, be sure to have these important answers for each major engine nameplate:

STEP TWO Consult the FP Diesel print or online catalog

Federal-Mogul offers the industry's most convenient and up-to-date product lookup tools through the powerful www.FMe-cat.com website. Simply choose your region and then click on the "Commercial, Ag and Industrial" link. You can use the fast, easy electronic lookup and interchange tools or click "Digital Catalogs" to access "virtual" print catalogs.

STEP THREE Call us today!

Call 800-237-7425 to place your order. Before you know it, your custom engine overhaul kit will be delivered!



Navistar®
Engine
Serial Number
Piston Number
DT-466 – Valve Cover or Crankcase-Mounted Breather
Crank Size
In-Frame Gasket Set or Complete Gasket Set
Caterpillar®
Engine/Machine
Serial & Arrangement Number
3200 Series – Std. or Oversize Pistons and Ring Sets (2- or 3-Ring)
Crank Size
In-Frame Gasket Set or Complete Gasket Set
Cummins®
Engine
CPL or Piston Number
Big or Small Cam
Liner Size
Crank Size
In-Frame Gasket Set or Complete Gasket Set
Head Set w/Std. Water Grommets or 0.010" Oversize
Detroit Diesel®
Engine
Model & Serial Number
Turbo or Natural
Trunk or Crosshead Piston
Liner Size
Crank Size
Head Set & Pan Gasket or Complete Overhaul Gasket Set
If Complete, Crank Seals Not Included – Need Them
Steel or Aluminum Valve Covers
Mack®
Engine
Model Number
Piston Number
Liner Size
Crank Size
In-Frame Gasket Set or Complete Gasket Set



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.

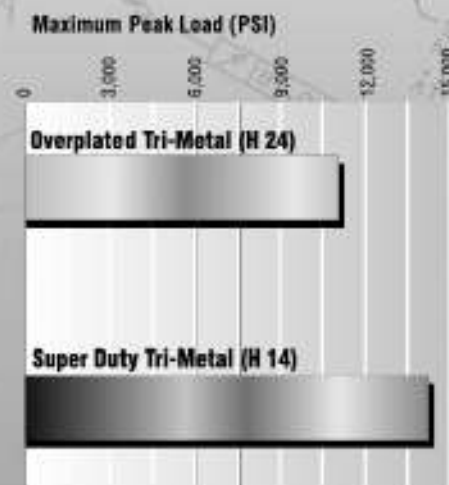
Bi-Metal Aluminum Alloys – Plated and Unplated

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.





Heavy Duty Pistons

Global Technology Behind Every Part

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.





Sleeve Assemblies

Global Technology Behind Every Part

Cylinder sleeves are produced by Federal-Mogul in a QS9000 registered facility complete with casting, induction hardening, machining, measurement and design capabilities. We start with raw castings produced on a state-of-the-art molding line specifically designed for the manufacture of static cast cylinder liners. The static castings produced by our foundry have a very consistent microstructure and superior scuffing resistance.

Certain applications are induction hardened or thru-hardened to enhance the wear characteristics and strength of the liner. Hardened liners are typically used in engines highly susceptible to dirt contamination, such as construction or agricultural applications.

Machining is performed on modern CNC equipment to ensure dimensional stability and exacting tolerances. Cylinder liners are typically finish honed to generate a plateau finish. The plateau finish promotes rapid ring seating

during break-in while providing a long-wearing sealing surface.

FP Diesel offers sleeves for wet, dry and repair applications. Sleeve assemblies or kits include the sleeve, piston, piston pin and lock rings, piston rings and sealing rings.





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

ABBREVIATION	DESCRIPTION
Compl.	Complete
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
P. T.O.....	Power Take Off
P/S.....	Power Steering

ABBREVIATION DESCRIPTION

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



Conversion Tables

Inches to Millimeters

.001	0.0254mm
.002	0.0508mm
.003	0.0762mm
.004	0.1016mm
.005	0.1270mm
.006	0.1524mm
.007	0.1778mm
.008	0.2032mm
.009	0.2286mm
.010	0.2540mm
.020	0.5080mm
.030	0.7620mm
.040	1.0160mm
.050	1.2700mm
.060	1.5240mm
.070	1.7780mm
.080	2.0320mm
.090	2.2860mm
.100	2.5400mm

Millimeters to Inches

0.025mm	.000984
0.050mm	.001968
0.075mm	.002952
0.100mm	.003937
0.125mm	.004921
0.150mm	.005905
0.175mm	.006889
0.200mm	.007874
0.225mm	.008858
0.250mm	.009842
0.500mm	.019685
0.750mm	.029527
1.000mm	.039370
1.250mm	.049212
1.500mm	.059055
1.750mm	.068897
2.000mm	.078740
2.250mm	.088582
2.500mm	.098425

Conversion Formulae

28.349 gm./oz.
453.592 gm./lb.

16.387 cc/in.³
61.024 in.³/L

3.785 L/U.S. gal.
4.546 L/Imp. gal.
0.264 U.S. gal./L
0.220 Imp. gal./L

Decimal Equivalents

8THS.	16THS.	32NDS.	64THS.	DECIMALS	mm
		1/32	1/64	.015625	.396875
				.031250	.793750
	1/16		3/64	.046875	1.190625
				.062500	1.587500
		3/32	5/64	.078125	1.984375
			7/64	.093750	2.381250
1/8				.109375	2.778125
				.125000	3.175000
		5/32	9/64	.140625	3.571875
				.156250	3.968750
	3/16		11/64	.171875	4.365625
				.187500	4.762500
			13/64	.203125	5.159375
		7/32		.218750	5.556250
1/4			15/64	.234375	5.953125
				.250000	6.350000
		9/32	17/64	.265625	6.746875
			19/64	.281250	7.143750
	5/16			.296875	7.540625
				.312500	7.937500
			21/64	.328125	8.334375
		11/32		.343750	8.731250
3/8			23/64	.359375	9.128125
				.375000	9.525000
			25/64	.390625	9.921875
		13/32		.406250	10.318750
			27/64	.421875	10.715625
	7/16			.437500	11.112500
			29/64	.453125	11.509375
		15/32		.468750	11.906250
			31/64	.484375	12.303125
1/2				.500000	12.700000
			33/64	.515625	13.096875
		17/32		.531250	13.493750
			35/64	.546875	13.890625
	9/16			.562500	14.287500
				.578125	14.684375
		19/32	37/64	.593750	15.081250
				.609375	15.478125
5/8			39/64	.625000	15.875000
				.640625	16.271875
		21/32	41/64	.656250	16.668750
			43/64	.671875	17.065625
	11/16			.687500	17.462500
			45/64	.703125	17.859375
		23/32		.718750	18.256250
			47/64	.734375	18.653125
3/4				.750000	19.050000
			49/64	.765625	19.446875
		25/32		.781250	19.843750
			51/64	.796875	20.240625
	13/16			.812500	20.637500
			53/64	.828125	21.034375
		27/32		.843750	21.431250
			55/64	.859375	21.828125
7/8				.875000	22.225000
			57/64	.890625	22.621875
		29/32		.906250	23.018750
			59/64	.921875	23.415625
	15/16			.937500	23.812500
			61/64	.953125	24.209375
		31/32		.968750	24.606250
			63/64	.984375	25.003125
1				1.000000	25.003125



Sealed Power to FP Diesel Consolidated Engine Kits

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FP Diesel has consolidated the Commercial Engine part numbers and many of the Sealed Power Engine Kits. This is a list of the John Deere Sealed Power Tractor kits that have been replaced by FP Diesel Engine Kits. You will find that the FP Diesel Kit will contain the same basic components as the Sealed Power Kit and the FP Diesel Kit will have additional components gaskets, oil seal kit, connecting rod bolts, engine bearings and all cylinder kits pertaining to that particular engine family.

Sealed Power Kit No.		FP Diesel Kit No.	Sealed Power Kit No.		FP Diesel Kit No.
KST-2416 F	Replaced By	FP-404DE-OHK	KST-2520 A	Replaced By	FP-404DL-OHK
KST-2416 G	Replaced By	FP-404DE-OHK	KST-2596 C	Replaced By	FP-404DN-OHK
KST-2502 A	Replaced By	FP-152EORL-OHK	KST-2633 A	Replaced By	FP-276DSP-OHK
KST-2503 A	Replaced By	FP-202EORL-OHK	KST-2634 A	Replaced By	FP-276T-OHK
KST-2503 C	Replaced By	FP-152LOHK	KST-2634 C	Replaced By	FP-414T-OHK
KST-2515 A	Replaced By	FP-202L-OHK	KST-2636 A	Replaced By	FP-414D-OHK
KST-2515 C	Replaced By	FP-164M-OHK	KST-2640 A	Replaced By	FP-466TAE-OHK
KST-2515 D	Replaced By	FP-219M-OHK	KST-2688 A	Replaced By	FP-135GE-OHK
KST-2516 A	Replaced By	FP-329M-OHK	KST-2688 C	Replaced By	FP-180GL-OHK
KST-2516 C	Replaced By	FP-164L-OHK	KST-2689 A	Replaced By	FP-135GE-OHK
KST-2516 D	Replaced By	FP-329L-OHK	KST-2689 C	Replaced By	FP-180GE-OHK
KST-2516 E	Replaced By	FP-219L-OHK	KST-2716 A	Replaced By	FP-619M-OHK

Specialty Gasket Sets

Global Technology Behind Every Part

FP Diesel Specialty Gasket Sets are created with additional gaskets necessary to complete the installation of specific components. These gasket sets are different from the OE configurations to include gaskets or seals that are not usually found combined in OE sets.

SERIES	PART NO.	ENGINE	DESCRIPTION	SERIES	PART NO.	ENGINE	DESCRIPTION
300	FP-RE37715-WS	276D, T & 4045	Gasket Set, Complete Overhaul w/Front and Rear Seals	400	FP-AR53631-WS	404D Mid	Gasket Set, Complete Overhaul w/Front and Rear Seals
300	FP-RE38555-WS	414, 6068	Gasket Set, Complete Overhaul w/Front and Rear Seals	400	FP-AR63269-WS	404T, A Late	Gasket Set, Complete Overhaul w/Front and Rear Seals
300	FP-RE38558-WS	202	Gasket Set, Complete Overhaul w/Front and Rear Seals	400	FP-AR63938-WS	404D Late	Gasket Set, Complete Overhaul w/Front and Rear Seals
300	FP-RE38568-WS	303	Gasket Set, Complete Overhaul w/Front and Rear Seals	400	FP-AR98845-WS	466T, A	Gasket Set, Complete Overhaul w/Front and Rear Seals
300	FP-RE38570-WS	152	Gasket Set, Complete Overhaul w/Front and Rear Seals	400	FP-RE35647-WS	6076 Early	Gasket Set, Complete Overhaul w/Front and Rear Seals
300	FP-RE38857-WS	219, 239, 4039	Gasket Set, Complete Overhaul w/Front and Rear Seals	400	FP-RE64206-WS	6076 Late	Gasket Set, Complete Overhaul w/Front and Rear Seals
300	FP-RE38858-WS	359, 6059	Gasket Set, Complete Overhaul w/Front and Rear Seals	400	FP-404A	404A Early	Gasket Kit, Aftercooler
300	FP-RE38859-WS	329	Gasket Set, Complete Overhaul w/Front and Rear Seals	400	FP-466A	466A, 404A Late	Gasket Kit, Aftercooler
300	FP-RE50978-WS	164, 179, 3029	Gasket Set, Complete Overhaul w/Front and Rear Seals	400	FP-6076A	6076 Early (single pass)	Gasket Kit, Aftercooler
300	FP-4039A	4039, 6059	Gasket Kit, Aftercooler	400	FP-6076ADP	6076 Late (dual pass)	Gasket Kit, Aftercooler
300	PG100FS	100 (L2)	Gasket Set, Full Set	400	FP-58952	404T, A Late, 466D, 466T, A & 6076 Early	Gasket Kit, Oil Cooler Installation
300	PG100HS	100 (L2)	Gasket Set, Head Gasket Set	400	PG270ES	270 Early	Gasket Set, In-frame Overhaul
300	PG113FS	113 (L2)	Gasket Set, Full Set	400	PG270LS	270 Late	Gasket Set, In-frame Overhaul
300	PG115FS	115, 145, 165	Gasket Set, Full Set	400	PG404DES	404D Early	Gasket Set, In-frame Overhaul
300	PG152S	152	Gasket Set, In-frame Overhaul	400	PG404DLS	404D Late	Gasket Set, In-frame Overhaul
300	PG164S	164, 179, 3029	Gasket Set, In-frame Overhaul	400	PG404DMS	404D Mid	Gasket Set, In-frame Overhaul
300	PG175FS	149, 175, 190	Gasket Set, Full Set	400	PG404TAS	404T, A	Gasket Set, In-frame Overhaul
300	PG175HS	149, 175, 190	Gasket Set, Head Gasket Set	400	PG466DS	466D	Gasket Set, In-frame Overhaul
300	PG202S	202	Gasket Set, In-frame Overhaul	400	PG466TAS	466T, A	Gasket Set, In-frame Overhaul
300	PG219S	219, 239, 4039, 276, 4045	Gasket Set, In-frame Overhaul	400	PG6076ES	6076 Early	Gasket Set, In-frame Overhaul
300	PG219CS	135, 152, 164, 179, 180, 202, 219, 276	Gasket Set, Conversion Set	400	PG6076LS	6076 Late	Gasket Set, In-frame Overhaul
300	PG303S	303	Gasket Set, In-frame Overhaul	400	PG400PS	404D Late, 404T, A, 466D, 466T, A	Gasket Set, Oil Pan
300	PG308FS	308, 321	Gasket Set, Full Set	400	PG401PS	6076	Gasket Set, Oil Pan
300	PG308XFS	308, 321	Gasket Set, Full Set	400	PG402PS	270	Gasket Set, Oil Pan
300	PG329S	329	Gasket Set, In-frame Overhaul	400	PG403PS	404D Early	Gasket Set, Oil Pan
300	PG329HS	329, 359	Gasket Set, Head Gasket Set	500	FP-AR53614-WS	531D	Gasket Set, Complete Overhaul w/Front and Rear Seals
300	PG359S	359, 6059, 414, 6068	Gasket Set, In-frame Overhaul	500	FP-RE17046-WS	531A	Gasket Set, Complete Overhaul w/Front and Rear Seals
300	PG300PS	152, 164, 179, 3029	Gasket Set, Oil Pan	500	FP-RE17050-WS	531T	Gasket Set, Complete Overhaul w/Front and Rear Seals
300	PG301PS	202, 219, 239, 4039, 276, 4045	Gasket Set, Oil Pan	500	FP-RE37416-WS	619	Gasket Set, Complete Overhaul w/Front and Rear Seals
300	PG302PS	303, 329	Gasket Set, Oil Pan	500	FP-500A	531A, 619A	Gasket Kit, Aftercooler
300	PG303PS	359, 6059, 414, 6068	Gasket Set, Oil Pan	500	PG531AS	531A	Gasket Set, In-frame Overhaul
400	FP-AR100638-WS	466D	Gasket Set, Complete Overhaul w/Front and Rear Seals	500	PG531DS	531D	Gasket Set, In-frame Overhaul
400	FP-AR53033-WS	270 Early	Gasket Set, Complete Overhaul w/Front and Rear Seals	500	PG531TS	531T	Gasket Set, In-frame Overhaul
400	FP-AR53035-WS	270 Late	Gasket Set, Complete Overhaul w/Front and Rear Seals	500	PG619S	619	Gasket Set, In-frame Overhaul
400	FP-AR53094-WS	404T, A Early	Gasket Set, Complete Overhaul w/Front and Rear Seals	500	PG500PS	531D, T, A	Gasket Set, Oil Pan
400	FP-AR53626-WS	404D Early	Gasket Set, Complete Overhaul w/Front and Rear Seals	500	PG501PS	619	Gasket Set, Oil Pan
				500	FP-RE57187-WS	8.1L Powertech	Gasket Set, Complete Overhaul w/Front and Rear Seals
					PG6081S	8.1L Powertech	Gasket Set, In-frame Overhaul



Additional Specialty Gaskets & Antifriction Bearings Covertage

Global Technology Behind Every Part

The parts listed on this page represent additional coverage not found in the application section of this catalog. These parts are currently available and in stock. The FP Diesel part number utilizes the John Deere OEM number as the part suffix. The Part Type is also listed to help in the identification and part selection of the component.

PART NUMBER	PART TYPE	PART NUMBER	PART TYPE	PART NUMBER	PART TYPE
FP-R100336	Clutch Housing Gasket	FP-JD9350	Ball Bearing	FP-JD7259	Taper Bearing Cup
FP-R33425	Clutch Housing Gasket	FP-JD9390	Ball Bearing	FP-JD7266	Taper Bearing Cup
FP-R43260	Clutch Housing Gasket	FP-JD9439	Ball Bearing	FP-JD7270	Taper Bearing Cup
FP-R43408	Clutch Housing Gasket	FP-JD9440	Ball Bearing	FP-JD7292	Taper Bearing Cup
FP-R50335	Clutch Housing Gasket			FP-JD7297	Taper Bearing Cup
FP-R55390	Clutch Housing Gasket	FP-JD8720	Cylindrical Outer Race	FP-JD7409	Taper Bearing Cup
FP-R57430	Clutch Housing Gasket			FP-JD7418	Taper Bearing Cup
FP-R63722	Clutch Housing Gasket	FP-JD10190	Taper Bearing Cone	FP-JD7424	Taper Bearing Cup
FP-R92411	Clutch Housing Gasket	FP-JD7205	Taper Bearing Cone	FP-JD7425	Taper Bearing Cup
FP-R98011	Clutch Housing Gasket	FP-JD7209	Taper Bearing Cone	FP-JD7438	Taper Bearing Cup
FP-R98915	Clutch Housing Gasket	FP-JD7216	Taper Bearing Cone	FP-JD7439	Taper Bearing Cup
FP-R99286	Clutch Housing Gasket	FP-JD7222	Taper Bearing Cone	FP-JD7441	Taper Bearing Cup
FP-R99288	Clutch Housing Gasket	FP-JD7224	Taper Bearing Cone	FP-JD7445	Taper Bearing Cup
FP-R99291	Clutch Housing Gasket	FP-JD7372	Taper Bearing Cone	FP-JD7448	Taper Bearing Cup
FP-R99292	Clutch Housing Gasket	FP-JD7378	Taper Bearing Cone	FP-JD7449	Taper Bearing Cup
		FP-JD7386	Taper Bearing Cone	FP-JD7466	Taper Bearing Cup
FP-R97456	Water Pump Gasket	FP-JD7395	Taper Bearing Cone	FP-JD8206	Taper Bearing Cup
		FP-JD8100	Taper Bearing Cone	FP-JD8207	Taper Bearing Cup
FP-T132943	Jake Brake Gasket Set	FP-JD8101	Taper Bearing Cone	FP-JD8213	Taper Bearing Cup
FP-T148483	Jake Brake Gasket Set	FP-JD8112	Taper Bearing Cone	FP-JD8214	Taper Bearing Cup
FP-T168463	Jake Brake Gasket Set	FP-JD8128	Taper Bearing Cone	FP-JD8219	Taper Bearing Cup
		FP-JD8130	Taper Bearing Cone	FP-JD8223	Taper Bearing Cup
FP-JD8802	Needle Bearing	FP-JD8131	Taper Bearing Cone	FP-JD8225	Taper Bearing Cup
FP-JD8828	Needle Bearing	FP-JD8134	Taper Bearing Cone	FP-JD8226	Taper Bearing Cup
FP-JD8876	Needle Bearing	FP-JD8135	Taper Bearing Cone	FP-JD8230	Taper Bearing Cup
		FP-JD8158	Taper Bearing Cone	FP-JD8237	Taper Bearing Cup
FP-DC20277	Ball Bearing	FP-JD8174	Taper Bearing Cone	FP-JD8239	Taper Bearing Cup
FP-JD10448	Ball Bearing	FP-JD8177	Taper Bearing Cone	FP-JD8247	Taper Bearing Cup
FP-JD7124	Ball Bearing	FP-JD8186	Taper Bearing Cone	FP-JD8248	Taper Bearing Cup
FP-JD7142	Ball Bearing	FP-JD8187	Taper Bearing Cone	FP-JD8251	Taper Bearing Cup
FP-JD7143	Ball Bearing	FP-JD8188	Taper Bearing Cone	FP-JD8258	Taper Bearing Cup
FP-JD7155	Ball Bearing	FP-JD8190	Taper Bearing Cone	FP-JD8259	Taper Bearing Cup
FP-JD7162	Ball Bearing	FP-JD8194	Taper Bearing Cone	FP-JD8271	Taper Bearing Cup
FP-JD7198	Ball Bearing	FP-JD8902	Taper Bearing Cone	FP-JD8280	Taper Bearing Cup
FP-JD7654	Ball Bearing	FP-JD8903	Taper Bearing Cone	FP-JD8282	Taper Bearing Cup
FP-JD7674	Ball Bearing	FP-JD8905	Taper Bearing Cone	FP-JD8288	Taper Bearing Cup
FP-JD7689	Ball Bearing	FP-JD8913	Taper Bearing Cone	FP-JD8290	Taper Bearing Cup
FP-JD8514	Ball Bearing	FP-JD8922	Taper Bearing Cone	FP-JD8297	Taper Bearing Cup
FP-JD8524	Ball Bearing	FP-JD8929	Taper Bearing Cone	FP-JD9109	Taper Bearing Cup
FP-JD8535	Ball Bearing	FP-JD8941	Taper Bearing Cone	FP-JD9114	Taper Bearing Cup
FP-JD8537	Ball Bearing	FP-JD8954	Taper Bearing Cone	FP-JD9115	Taper Bearing Cup
FP-JD8597	Ball Bearing	FP-JD8955	Taper Bearing Cone	FP-JD9118	Taper Bearing Cup
FP-JD9214	Ball Bearing	FP-JD8956	Taper Bearing Cone	FP-JD9127	Taper Bearing Cup
FP-JD9239	Ball Bearing	FP-JD8961	Taper Bearing Cone	FP-JD9170	Taper Bearing Cup
FP-JD9245	Ball Bearing	FP-JD8962	Taper Bearing Cone	FP-JD8286	Taper Bearing Set
FP-JD9249	Ball Bearing	FP-JD8969	Taper Bearing Cone	FP-60004	Valve Guide
FP-JD9260	Ball Bearing	FP-JD8988	Taper Bearing Cone	FP-R56462	O-Ring
FP-JD9301	Ball Bearing	FP-JD9018	Taper Bearing Cone	FP-A4730R	O-Ring
FP-JD9313	Ball Bearing	FP-JD9041	Taper Bearing Cone	FP-R120972	O-Ring
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FP-JD9331	Ball Bearing	FP-JD9055	Taper Bearing Cone		
FP-JD9345	Ball Bearing	FP-JD9058	Taper Bearing Cone		
FP-JD9346	Ball Bearing	FP-JD9069	Taper Bearing Cone		



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 PERTE D'UNE AUTRE PROPRIÉTÉ OU D'UN AUTRE ÉQUIPEMENT, LA PERTE DE PROFITS OU DE REVENUS, LES FRAIS DE TRANSPORT ET DE REMORQUAGE, LES FRAIS DE BIENS ACHETÉS OU REMPLACÉS, OU LES DEMANDES DE CLIENTS DE L'ACHETEUR, QUI PEUVENT SE PRÉSENTER OU RÉSULTER DE LA VENTE, DE L'INSTALLATION OU DE L'UTILISATION DE CES PIÈCES.

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

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

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

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

PROCÉDURES DE DEMANDE

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

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

(Veuillez noter que l'utilisateur final ou le distributeur est responsable pour tous les frais d'expédition;

Federal-Mogul n'accepte aucun envoi en port-dû). Veuillez consulter votre représentant des ventes pour les formulaires et les procédures de soumission de demande détaillés.

AVERTISSEMENT

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

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

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



Warranty

Global Technology Behind Every Part

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

LIMITACIONES DE LA GARANTIA

Federal-Mogul pagará solo por las partes y la mano de obra necesarias para reparar daños al motor que resulten de una falla definida sobre la parte vendida. Los costos quedarán limitados a las partes y la mano de obra necesarias para restaurar el motor a la condición en la cual se encontraba inmediatamente antes de la falla. Los costos de la mano de obra se determinarán por medio de precios publicados y estándares del área geográfica en la cual las reparaciones se lleven a cabo. No se permitirá agregar costos de tiempo extra ni por trabajo durante días festivos. Pagaremos por productos de mantenimiento tales como aceite, anti-congelantes, correas, mangueras y filtros dañados debido a alguna falla definida del producto vendido.

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

FEDERAL-MOGUL NO SERÁ RESPONSABLE, BAJO NINGUNA CIRCUNSTANCIA, OTRO QUE NO SEA LO QUE SE HA MENCIONADO EXPLÍCITAMENTE EN ÉSTA GARANTÍA, POR CUALQUIER DAÑO INDIRECTO, ESPECIAL, ACCIDENTAL O 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.

Esta 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.





John Deere Off Highway

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B ... Wheel Tractor.....	3.1L 190 OHV L2 4.6875" Bore.....	34	VF41 ... Power Unit.....	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.).....	5
F162 ... Combine.....	2.7L 162 L-HEAD L4 3.4375" Bore (Continental Eng.).....	21	VF41 ... Windrower.....	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.).....	5
F162 ... Harvester.....	2.7L 162 L-HEAD L4 3.4375" Bore (Continental Eng.).....	21	VG4D ... Hay Baler.....	2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.).....	19
H-225 ... Windrower.....	3.7L 225 OHV L6 3.4063" Bore (Chrysler Eng.).....	44	VG4D ... Harvester.....	2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.).....	19
IXA ... Combine.....	1.9L 113 L-HEAD L4 3" Bore (Hercules Eng.).....	6	VH4 ... Hay Baler.....	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.).....	5
IXB ... Combine.....	2.2L 133 L-HEAD L4 3.25" Bore (Hercules Eng.).....	9	VH4 ... Power Unit.....	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.).....	5
JD135G ... Power Unit.....	2.2L 135 OHV L3 3.8594" Bore.....	10	VH4 ... Windrower.....	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.).....	5
JD152D ... Power Unit.....	2.5L 152 OHV Diesel L3 3.8594" Bore.....	18	VH4D ... Hay Baler.....	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.).....	5
JD164D ... Power Unit.....	2.7L 164 OHV Diesel L3 4.0156" Bore.....	23	VH4D ... Power Unit.....	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.).....	5
JD180G ... Power Unit.....	2.9L 180 OHV L4 3.8594" Bore.....	31	VH4D ... Windrower.....	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.).....	5
JD202D ... Power Unit.....	3.3L 202 OHV Diesel L4 3.8594" Bore.....	38	VH4DM ... Hay Baler.....	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.).....	5
JD202G ... Power Unit.....	3.3L 202 OHV L4 3.8594" Bore.....	37	VH4DM ... Power Unit.....	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.).....	5
JD303D ... Power Unit.....	5.0L 303 OHV Diesel L6 3.8594" Bore.....	73	VH4DM ... Windrower.....	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.).....	5
JD303G ... Power Unit.....	5.0L 303 OHV L6 3.8594" Bore.....	72	VP4 ... Hay Baler.....	2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.).....	19
JD329D ... Power Unit.....	5.4L 329 OHV Diesel L6 4.0156" Bore.....	78	VP4 ... Harvester.....	2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.).....	19
JD329G ... Power Unit.....	5.4L 329 OHV L6 4.0156" Bore.....	77	VP4D ... Hay Baler.....	2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.).....	19
JD404D ... Power Unit.....	6.6L 404 OHV Diesel L6 4.25" Bore (Early).....	95	VP4D ... Harvester.....	2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.).....	19
JD404D ... Power Unit.....	6.6L 404 OHV Diesel L6 4.25" Bore (Late).....	96	V460D ... Hay Baler.....	2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.).....	19
JXC ... Combine.....	4.6L 282 L-HEAD L6 3.75" Bore (Hercules Eng.).....	69	V460D ... Harvester.....	2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.).....	19
JX4-C3 ... Combine.....	3.1L 188 L-HEAD L4 3.75" Bore (Hercules Eng.).....	33	V461D ... Hay Baler.....	2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.).....	19
M ... Wheel Tractor.....	1.6L 100 OHV L2 4" Bore.....	3	V461D ... Harvester.....	2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.).....	19
NXA ... Power Unit.....	.9L 57 L-HEAD L2 3" Bore (Hercules Eng.).....	1	115G ... Combine.....	1.9L 115 OHV L4 3.5" Bore.....	8
NXB ... Power Unit.....	1.1L 66 L-HEAD L2 3.25" Bore (Hercules Eng.).....	2	115G ... Power Unit.....	1.9L 115 OHV L4 3.5" Bore.....	8
N14CELECT ... Harvester.....	14.0L 855 OHV Turbo-Diesel L6 5.5" Bore (Cummins Eng.).....	130	115G ... Wheel Tractor.....	1.9L 115 OHV L4 3.5" Bore.....	8
OOC ... Combine.....	3.7L 226 OHV L4 4" Bore (Hercules Eng.).....	45			
QXC ... Combine.....	3.6L 222 L-HEAD L6 3.375" Bore (Hercules Eng.).....	43			
QXD3 ... Combine.....	3.8L 230 L-HEAD L6 3.4375" Bore (Hercules Eng.).....	48			
VF4 ... Hay Baler.....	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.).....	5			

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Engine Code Index

Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
115G ... Windrower.....	1.9L 115 OHV L4 3.5" Bore.....	8	3029T ... Track Loader	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V).....	30
115G ... Crawler Tractor.....	1.9L 115 OHV L4 3.5" Bore.....	8	3135D ... Wheel Tractor	2.2L 135 OHV Diesel L3 3.8594" Bore.....	11
145D ... Wheel Tractor	2.4L 145 OHV Diesel L4 3.625" Bore.....	15	3135G ... Loader.....	2.2L 135 OHV L3 3.8594" Bore....	10
145D ... Crawler Tractor	2.4L 145 OHV Diesel L4 3.625" Bore.....	15	3135G ... Power Unit	2.2L 135 OHV L3 3.8594" Bore....	10
145G ... Power Unit	2.4L 145 OHV L4 3.625" Bore.....	13	3135G ... Wheel Tractor	2.2L 135 OHV L3 3.8594" Bore....	10
145G ... Wheel Tractor	2.4L 145 OHV L4 3.625" Bore.....	13	3135G ... Windrower.....	2.2L 135 OHV L3 3.8594" Bore....	10
145G ... Power Unit	2.4L 145 OHV L4 3.625" Bore (Late).....	14	3135G ... Crawler Tractor.....	2.2L 135 OHV L3 3.8594" Bore....	10
145G ... Wheel Tractor	2.4L 145 OHV L4 3.625" Bore (Late).....	14	3135G ... Loader Tractor.....	2.2L 135 OHV L3 3.8594" Bore....	10
155D ... Combine.....	2.5L 155 OHV Diesel L4 3.75" Bore.....	20	3152D ... Forklift	2.5L 152 OHV Diesel L3 3.8594" Bore.....	18
155D ... Power Unit	2.5L 155 OHV Diesel L4 3.75" Bore.....	20	3152D ... Loader.....	2.5L 152 OHV Diesel L3 3.8594" Bore.....	18
155D ... Wheel Tractor	2.5L 155 OHV Diesel L4 3.75" Bore.....	20	3152D ... Power Unit	2.5L 152 OHV Diesel L3 3.8594" Bore.....	18
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165D ... Power Unit	2.7L 165 OHV Diesel L4 3.875" Bore.....	25	3152D ... Crawler Tractor	2.5L 152 OHV Diesel L3 3.8594" Bore.....	18
165D ... Wheel Tractor	2.7L 165 OHV Diesel L4 3.875" Bore.....	25	3152D ... Loader Tractor	2.5L 152 OHV Diesel L3 3.8594" Bore.....	18
165G ... Combine	2.7L 165 OHV L4 3.875" Bore.....	24	3152D ... Dozer	2.5L 152 OHV Diesel L3 3.8594" Bore.....	18
165G ... Power Unit	2.7L 165 OHV L4 3.875" Bore.....	24	3152D ... Backhoe	2.5L 152 OHV Diesel L3 3.8594" Bore.....	18
2-53 ... Wheel Tractor.....	1.7L 106 OHV Diesel L2 3.875" Bore (Detroit Diesel Eng.).....	4	3152G ... Loader.....	2.5L 152 OHV L3 3.8594" Bore....	17
2-53N ... Wheel Tractor	1.7L 106 OHV Diesel L2 3.875" Bore (Detroit Diesel Eng.).....	4	3152G ... Wheel Tractor	2.5L 152 OHV L3 3.8594" Bore....	17
201G ... Loader.....	3.3L 201 OHV L4 4" Bore.....	36	3164D ... Combine.....	2.7L 164 OHV Diesel L3 4.0156" Bore.....	23
201G ... Wheel Tractor	3.3L 201 OHV L4 4" Bore.....	36	3164D ... Loader.....	2.7L 164 OHV Diesel L3 4.0156" Bore.....	23
217G ... Combine	3.6L 217 OHV L6 3.625" Bore.....	39	3164D ... Power Unit	2.7L 164 OHV Diesel L3 4.0156" Bore.....	23
217G ... Harvester.....	3.6L 217 OHV L6 3.625" Bore.....	39	3164D ... Wheel Tractor	2.7L 164 OHV Diesel L3 4.0156" Bore.....	23
217G ... Power Unit	3.6L 217 OHV L6 3.625" Bore.....	39	3164D ... Crawler Tractor	2.7L 164 OHV Diesel L3 4.0156" Bore.....	23
227G ... Wheel Tractor	3.7L 227 OHV L4 4.25" Bore.....	46	3164D ... Loader Tractor	2.7L 164 OHV Diesel L3 4.0156" Bore.....	23
227G ... Loader Tractor.....	3.7L 227 OHV L4 4.25" Bore.....	46	3164D ... Dozer	2.7L 164 OHV Diesel L3 4.0156" Bore.....	23
227LP LPG ... Wheel Tractor.....	3.7L 227 OHV LPG L4 4.25" Bore.....	47	3164D ... Backhoe	2.7L 164 OHV Diesel L3 4.0156" Bore.....	23
227LP LPG ... Loader Tractor.....	3.7L 227 OHV LPG L4 4.25" Bore.....	47	3164G ... Loader.....	2.7L 164 OHV L3 4.0156" Bore....	22
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248D ... Power Unit	4.1L 248 OHV Diesel L6 3.875" Bore.....	58	3179D ... Crawler Tractor	2.9L 179 OHV Diesel L3 4.1875" Bore (Standard).....	27
248G ... Combine	4.1L 248 OHV L6 3.875" Bore.....	57	3179D ... Dozer	2.9L 179 OHV Diesel L3 4.1875" Bore (Standard).....	27
248G ... Power Unit	4.1L 248 OHV L6 3.875" Bore.....	57	3179T ... Wheel Tractor.....	2.9L 179 OHV Turbo-Diesel L3 4.1875" Bore (Standard).....	28
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254D ... Power Unit	4.2L 254 OHV Diesel L4 4.125" Bore.....	59	4-71N ... Wheel Tractor	4.7L 284 OHV Diesel L4 4.25" Bore (4-71) (Detroit Diesel Eng.).....	70
254D ... Wheel Tractor	4.2L 254 OHV Diesel L4 4.125" Bore.....	59	4039D ... Forklift	3.9L 239 (3917cc) OHV Diesel L4 106mm Bore (Litre Engine)	52
301G ... Combine	4.9L 302 OHV L6 4" Bore.....	71	4039D ... Crawler Tractor	3.9L 239 (3917cc) OHV Diesel L4 106mm Bore (Litre Engine)	52
301G ... Wheel Tractor	4.9L 302 OHV L6 4" Bore.....	71	4039D ... Excavator.....	3.9L 239 (3917cc) OHV Diesel L4 106mm Bore (Litre Engine)	52
3029D ... Power Unit	2.9L 179.2 (2938cc) OHV Diesel L3 106mm Bore (PowerTech 2V)	29	4039D ... Backhoe.....	3.9L 239 (3917cc) OHV Diesel L4 106mm Bore (Litre Engine)	52
3029D ... Wheel Tractor	2.9L 179.2 (2938cc) OHV Diesel L3 106mm Bore (PowerTech 2V)	29	4039T ... Backhoe	3.9L 239 (3917cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	53
3029D ... Track Loader.....	2.9L 179.2 (2938cc) OHV Diesel L3 106mm Bore (PowerTech 2V)	29	4039T ... Sprayer.....	3.9L 239 (3917cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	53
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Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
4045D ... Loader.....	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (Litre Engine)	63	4202D ... Crawler Tractor	3.3L 202 OHV Diesel L4 3.8594" Bore	38
4045D ... Loader Tractor	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (Litre Engine)	63	4202D ... Loader Tractor	3.3L 202 OHV Diesel L4 3.8594" Bore	38
4045D ... Backhoe	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (Litre Engine)	63	4202D ... Skidder.....	3.3L 202 OHV Diesel L4 3.8594" Bore	38
4045H ... Power Unit	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61	4202D ... Dozer	3.3L 202 OHV Diesel L4 3.8594" Bore	38
4045H ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61	4202D ... Backhoe	3.3L 202 OHV Diesel L4 3.8594" Bore	38
4045H ... Crawler Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61	4202G ... Combine	3.3L 202 OHV L4 3.8594" Bore.....	37
4045H ... Loader Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61	4202G ... Power Unit	3.3L 202 OHV L4 3.8594" Bore.....	37
4045H ... Forestry Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61	4202G ... Wheel Tractor	3.3L 202 OHV L4 3.8594" Bore.....	37
4045H ... Excavator	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61	4202G ... Crawler Tractor	3.3L 202 OHV L4 3.8594" Bore.....	37
4045H ... Integrated Tool Carrier.....	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61	4202G ... Loader Tractor	3.3L 202 OHV L4 3.8594" Bore.....	37
4045H ... Telehandler.....	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61	4219D ... Combine.....	3.6L 219 OHV Diesel L4 4.0156" Bore	41
4045H ... Power Unit	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 4V IC)	62	4219D ... Cotton Picker	3.6L 219 OHV Diesel L4 4.0156" Bore	41
4045H ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 4V IC)	62	4219D ... Forklift	3.6L 219 OHV Diesel L4 4.0156" Bore	41
4045T ... Loader	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	65	4219D ... Loader.....	3.6L 219 OHV Diesel L4 4.0156" Bore	41
4045T ... Loader Tractor.....	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	65	4219D ... Power Unit	3.6L 219 OHV Diesel L4 4.0156" Bore	41
4045T ... Excavator	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	65	4219D ... Wheel Tractor	3.6L 219 OHV Diesel L4 4.0156" Bore	41
4045T ... Skidder	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	65	4219D ... Windrower.....	3.6L 219 OHV Diesel L4 4.0156" Bore	41
4045T ... Backhoe	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	65	4219D ... Crawler Tractor	3.6L 219 OHV Diesel L4 4.0156" Bore	41
4180D ... Crawler Tractor	2.9L 180 OHV Diesel L4 3.8594" Bore	32	4219D ... Loader Tractor	3.6L 219 OHV Diesel L4 4.0156" Bore	41
4180G ... Combine	2.9L 180 OHV L4 3.8594" Bore.....	31	4219D ... Backhoe	3.6L 219 OHV Diesel L4 4.0156" Bore	41
4180G ... Forklift.....	2.9L 180 OHV L4 3.8594" Bore.....	31	4219D ... Sprayer	3.6L 219 OHV Diesel L4 4.0156" Bore	41
4180G ... Power Unit	2.9L 180 OHV L4 3.8594" Bore.....	31	4219G ... Combine	3.6L 219 OHV L4 4.0156" Bore.....	40
4180G ... Wheel Tractor	2.9L 180 OHV L4 3.8594" Bore.....	31	4219G ... Cotton Picker	3.6L 219 OHV L4 4.0156" Bore.....	40
4180G ... Windrower.....	2.9L 180 OHV L4 3.8594" Bore.....	31	4219G ... Power Unit	3.6L 219 OHV L4 4.0156" Bore.....	40
4180G ... Crawler Tractor	2.9L 180 OHV L4 3.8594" Bore.....	31	4219G ... Wheel Tractor	3.6L 219 OHV L4 4.0156" Bore.....	40
4180G ... Loader Tractor	2.9L 180 OHV L4 3.8594" Bore.....	31	4219G ... Crawler Tractor	3.6L 219 OHV L4 4.0156" Bore.....	40
4180G ... Skidder.....	2.9L 180 OHV L4 3.8594" Bore.....	31	4219T ... Wheel Tractor	3.6L 219 OHV Turbo-Diesel L4 4.0156" Bore.....	42
420 ... Wheel Tractor.....	1.9L 113 OHV L2 4.25" Bore.....	7	4219T ... Crawler Tractor.....	3.6L 219 OHV Turbo-Diesel L4 4.0156" Bore.....	42
4202D ... Forklift	3.3L 202 OHV Diesel L4 3.8594" Bore	38	4219T ... Loader Tractor.....	3.6L 219 OHV Turbo-Diesel L4 4.0156" Bore.....	42
4202D ... Loader.....	3.3L 202 OHV Diesel L4 3.8594" Bore	38	4219T ... Skidder	3.6L 219 OHV Turbo-Diesel L4 4.0156" Bore.....	42
4202D ... Power Unit	3.3L 202 OHV Diesel L4 3.8594" Bore	38	4219T ... Dozer.....	3.6L 219 OHV Turbo-Diesel L4 4.0156" Bore.....	42
4202D ... Wheel Tractor	3.3L 202 OHV Diesel L4 3.8594" Bore	38	4219T ... Backhoe	3.6L 219 OHV Turbo-Diesel L4 4.0156" Bore.....	42
4202D ... Windrower.....	3.3L 202 OHV Diesel L4 3.8594" Bore	38	4239D ... Forklift	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
			4239D ... Wheel Tractor	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
			4239D ... Windrower.....	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
			4239D ... Crawler Tractor	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
			4239D ... Loader Tractor	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
			4239D ... Excavator.....	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50