

**MAHLE**

Great parts for hot engines

Replacement parts for 6.7L Ford Power Stroke®

**BEHR®** **CLEVITE** **MAHLE®**

# The 6.7L Ford Power Stroke® engine

## MAHLE Lifecycle and Mobility has the most expansive quality product offering for the 6.7L Power Stroke® diesel of anyone in the world.

Among the expansive parts are MAHLE® pistons with our patented Grafal® skirt coating. Pistons are available in three sizes – with and without rings installed. MAHLE also offers the industry's only carbon alloy steel compression rings with high-density plasma moly coating... available in three different sizes. In addition to cylinder components, CLEVITE® engine bearings, matching the OE polymer coated design – a MAHLE exclusive, are available in three sizes; the world's only high performance CLEVITE H-Series race bearings for the 6.7L Ford; intake valves and filters are also available. Rounding out our coverage for the 6.7L Power Stroke are MAHLE® gaskets.

The MAHLE® gasket offering is the industry's finest. The MAHLE head gasket for the 6.7L Power Stroke® is constructed of four layers of heat treated steel. The head gasket is coated with an FKM coating which resists the extreme diesel cylinder pressures and temperatures for the life of the engine. We

offer over 25 gasket part numbers, insuring the technician has every part needed when working on the 6.7L diesel. MAHLE Lifecycle and Mobility offers a MAHLE head set that includes:

- + 100% OE form, fit and function of the kit contents
- + Correct materials, coatings and colors for locating proper placement including color coded o-rings to match factory parts
- + All gaskets and seals required to re-install cylinder heads, including dowel pins (note: head bolts are sold separately)
- + Turbocharger v-band clamps

Modern diesel fuel injection equipment is manufactured to very precise tolerance and fine clearances. To prevent fuel system damage, it is essential that absolute cleanliness is observed when working with these components. The fuel rail supply tube assembly cannot be reused. Discard the fuel rail supply tube assembly any time a fuel rail supply tube high-pressure fitting has been loosened and replace with part #GS33712 shown below.



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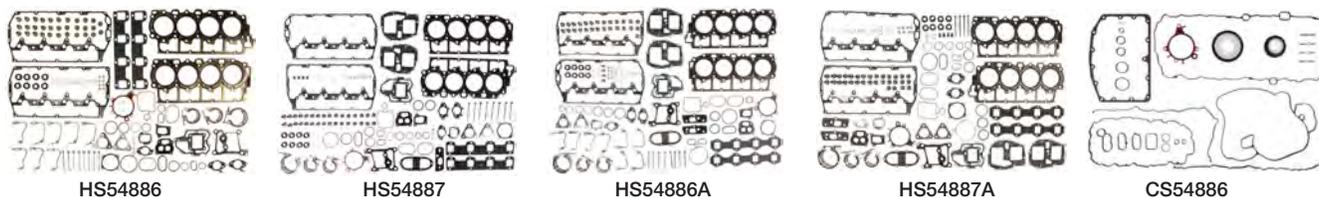
The product listings included are for the 6.7L Power Stroke for the following applications:

Ford F-250SD, F-350SD, F-450SD, and F-550SD; VIN T; 2011-2019

## Cylinder components

Part No.	Description	Notes
224-3852	Piston set	Coated skirt, standard compression ratio, 2011-2015 (also available in 0.50 & 1.00 mm oversize)
224-3852WR	Piston w/rings	Coated skirt, standard compression ratio, 2011-2015 (also available in 0.50 & 1.00 mm oversize)
S224-3852	Piston	Single piston, coated skirt, standard compression ratio, 2011-2015 (also available in 0.50 & 1.00 mm oversize)
224-4026	Piston set	Coated skirt, reduced compression ratio, 2011-2015 (also available in 0.50 & 1.00 mm oversize)
224-4026WR	Piston w/rings	Coated skirt, reduced compression ratio, 2011-2015 (also available in 0.50 & 1.00 mm oversize)
224-4051	Piston set	Coated skirt, standard compression ratio, 2017-2019 (also available in 0.50, 0.75 & 1.00 mm oversize)
224-4051WR	Piston w/rings	Coated skirt, standard compression ratio, 2017-2019 (also available in 0.50, 0.75 & 1.00 mm oversize)
S224-4051	Piston	Single piston, coated skirt, standard compression ratio, 2017-2019 (also available in 0.50, 0.75 & 1.00 mm oversize)
42168	Piston ring set	Also available in .020" and .040" oversize
S42168	Piston ring	Also available in .020" and .040" oversize
42427	Piston ring	Also available in .020", .030" and .040" oversizes

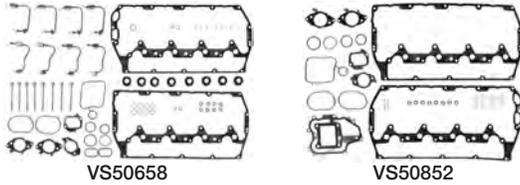
## Gaskets



Part No.	Description	Notes
HS54886	Head gasket set	Includes EGR cooler gaskets, EGR valve gaskets, exhaust manifold gaskets, fuel injector supply tubes, fuel injector to valve cover seals, fuel injector seals, fuel injector hold down bolts, head gaskets, intake manifold gaskets, low pressure fuel line to high pressure pump o-rings, thermostat housing seal, throttle body gasket, turbocharger up-pipe gaskets, turbocharger mounting gasket, turbocharger pedestal gasket, turbocharger v-band clamps, vacuum pump mounting gasket, valve cover gaskets, valve stem seals, water crossover gaskets, and more; for years 2011-2014
HS54887	Head gasket set	Same as HS54886; for years 2011-2014; fuel injector supply tubes not included
HS54886A	Head gasket set	Same as HS54886; for years 2015-2019
HS54887A	Head gasket set	Same as HS54887; for years 2015-2019; fuel injector supply tubes not included
CS54886	Conversion set	Includes lower oil pan gaskets (for plastic and steel pans), oil cooler gaskets, oil dipstick tube o-rings, oil drain plug o-rings, oil filter adapter gasket, oil pump pickup tube o-rings, rear cover gasket, rear main seal, timing cover gaskets, timing cover seal, upper oil pan gasket, vacuum pump mounting gasket, water pump gasket
54886 (right)	Cylinder head gasket*	Multi-layered steel, cylinder head gasket thickness .043"
54887 (left)	Cylinder head gasket*	Multi-layered steel, cylinder head gasket thickness .043"
55527 (left)	Cylinder head gasket*	Multi-layered steel, cylinder head gasket thickness .050"
55528 (right)	Cylinder head gasket*	Multi-layered steel, cylinder head gasket thickness .050"

\* Separate part number for the left and right gaskets.

## Gaskets



Part No.	Description	Notes
<b>GS33693</b>	Cylinder head bolt set	Includes (18) M12 x 175mm bolts, (4) M8 x 45mm bolts and an additional M8 x 75mm bolt for the LH cylinder head
<b>VS50658</b>	Valve cover set	Includes valve cover gaskets, crankcase breather gaskets, EGR inlet tube and outlet tube gaskets, fuel injector supply tubes, fuel injector seals, fuel injector hold down bolts, intake manifold gaskets, low pressure fuel line to high pressure fuel pump o-rings, fuel rail supply tube not included, use with #(s) GS33712
<b>VS50852</b>	Valve cover set	Includes crankcase breather gaskets, EGR inlet tube gaskets, EGR outlet tube gaskets, EGR valve mounting gasket, fuel injector body o-rings, fuel injector crush washers, fuel injector return port o-rings, intake manifold gaskets, oil filler tube o-ring, valve cover gaskets, fuel rail supply tube not included, use with #(s) GS33712
<b>VS50658SL</b>	Valve cover gasket*	Includes crankcase breather gaskets, EGR outlet tube gaskets, fuel injector supply tubes, fuel injector o-rings, fuel injector crush washers, fuel injector hold down bolts, fuel injector valve cover seals, heater return tube o-ring, intake manifold gaskets, low pressure fuel line to high pressure fuel pump o-rings, oil filler tube o-ring, valve cover gasket (left), fuel rail supply tube not included, use with #(s) GS33712
<b>VS50658SR</b>	Valve cover gasket*	Includes crankcase breather gaskets, EGR tube gaskets, fuel injector supply tubes, fuel injector seals, fuel injector hold down bolts, intake manifold gaskets, low pressure fuel line to high pressure fuel pump o-rings, oil filler tube o-ring, valve cover gasket (right), fuel rail supply tube not included, use with #(s) GS33712
<b>SS46062</b>	Valve stem set	Contains (32) valve stem seals, fluoroelastomer
<b>MS19880</b>	Exhaust manifold set	Multi-layered steel with MOS2 high temperature low friction coating
<b>MS19881</b>	Intake manifold set	Upper intake manifold gaskets, molded rubber
<b>OS32434</b>	Oil pan set	Lower oil pan gasket with plastic oil pan, molded rubber, includes drain plug o-ring
<b>OS32438</b>	Oil pan set	Lower oil pan gasket with steel oil pan, beaded paper, includes drain plug gasket
<b>OS32477</b>	Oil pan set	Includes oil cooler gaskets, upper oil pan gasket
<b>JV1733</b>	Rear main seal set	Includes rear cover gasket, Teflon
<b>JV5174</b>	Timing cover set	Includes lower radiator hose o-ring, oil cooler mounting gaskets, oil dipstick tube o-rings, oil slinger, timing cover seal, upper oil pan gasket, vacuum pump mounting gasket, water pump mounting gasket, lower oil pan gasket not included, use with #(s) OS32434 or OS32438
<b>67965</b>	Timing cover seal	Includes oil slinger, teflon
<b>W32602</b>	Automatic transmission oil pan gasket	6R140 6-speed torqshift, molded rubber
<b>P32716</b>	Axle housing cover gasket	Includes differential cover gasket with 12 bolt holes, paper
<b>P38155TC</b>	Axle housing cover gasket	Includes differential cover gasket with 12 bolt holes, cork with metal carrier
<b>P38163TC</b>	Axle housing cover gasket	Includes differential cover gasket with 10 bolt holes, cork with metal carrier
<b>GS34107</b>	Crankcase breather gasket set	Includes crankcase breather gaskets, molded rubber
<b>G32599</b>	Egr valve gasket	Includes EGR inlet and outlet tube gaskets, multi-layered steel
<b>G32662</b>	Exhaust gas recirculation (EGR) tube gasket	Includes EGR inlet tube to EGR valve gasket, multi-layered steel
<b>G32834</b>	Exhaust gas recirculation (EGR) tube gasket	Includes EGR outlet tube gasket, multi-layered steel
<b>G32836</b>	Exhaust gas recirculation (EGR) tube gasket	Includes EGR tube to exhaust manifold gasket, multi-layered steel

\* Separate part number for the left and right gaskets.



Part No.	Description	Notes
G32802	Exhaust gas recirculation (EGR) cooler gasket	Includes EGR cooler end tank gasket, steel
G32903	Exhaust gas recirculation (EGR) cooler gasket	Includes EGR cooler core gasket, multi-layered steel
G33827	Exhaust gas recirculation (EGR) cooler gasket	Includes EGR cooler core bypass gasket, multi-layered steel
GS33690	Exhaust gas recirculation (EGR) cooler gasket	Includes EGR bypass gasket, EGR cooler core gasket, EGR cooler end tank gasket, EGR cooler to EGR cooler housing o-rings, EGR cooler to valve cover gaskets, EGR inlet tube gaskets, EGR outlet tube gaskets
GS33702	Egr inlet and outlet tube gasket set	Multi-layered steel
C33846	Engine coolant pipe o-ring	Includes heater inlet tube o-ring, molded rubber
F32585	Exhaust pipe flange gasket	Exhaust manifold to LH or RH turbocharger inlet tube, steel
F32820	Exhaust pipe flange gasket	Intermediate pipe gasket, multi-layered steel
GS33703	Fuel injector seal kit	1 Kit services the LH or RH bank of injectors, contains (4) fuel injector supply tubes, (4) fuel injector body o-rings, (4) fuel injector crush washers, (4) fuel injector return port o-rings, (4) fuel injector hold down bolts
GS34039	Fuel injector seal kit	1 Kit services 8 injectors, contains fuel injector body o-rings, fuel injector crush washers, fuel injector return port o-rings
B33845	Fuel injector seal	Includes fuel injector to valve cover seal, molded rubber
GS33712	Fuel rail supply tube	Steel fuel line from high pressure pump to fuel rails
GS33697	Fuel injection pump mounting set	Includes EGR inlet tube gaskets, EGR outlet tube gaskets, fuel injection pump supply tube o-rings, heater inlet tube o-ring, intake manifold gaskets, oil filler tube o-ring, vacuum pump mounting gasket
GS34104	Intercooler gasket set	Includes CAC inlet tube to turbocharger seal, upper CAC tube to throttle body seal, molded rubber
GS33684	Oil cooler mounting kit	Lower oil pan gasket not included, use with #(s) OS32434, or OS32438, molded rubber
B32580	Oil filter adapter gasket	Molded rubber
C32601	Thermostat housing gasket	Includes upper radiator hose o-ring seal, molded rubber
G33878	Exhaust gas recirculation (EGR) tube gasket	Includes EGR inlet tube to exhaust manifold gasket, multi-layered steel
B33590	Transfer case gasket	Includes adapter to transfer case gasket, paper
G32584	Throttle body gasket	Rubber coated beaded steel
GS33692	Turbocharger mounting gasket set	Includes CAC tube seals, EGR outlet tube gaskets, intake manifold gaskets, LH & RH turbocharger inlet pipe clamps, LH & RH turbocharger inlet pipe gaskets, turbocharger downpipe clamp, turbocharger mounting gasket, turbocharger oil & coolant line adapter o-rings
B33485	Turbocharger gasket	Includes 2.50" Turbocharger v-band clamp
B33486	Turbocharger gasket	Includes 3.00" Turbocharger v-band clamp
F33386	Turbocharger gasket	Turbocharger mounting gasket, beaded steel
B32630	Vacuum pump gasket	Rubber coated steel
GS33691	Water crossover gasket set	Includes EGR outlet tube gaskets, heater hose inlet tube o-ring, thermostat housing gasket, upper radiator hose o-ring, upper intake manifold gaskets
C32825	Water crossover gasket	Includes right watercrossover gasket, molded rubber
C32826	Water crossover gasket	Includes left watercrossover gasket, molded rubber
K32581	Water pump gasket	Includes lower radiator hose o-ring seal, molded rubber

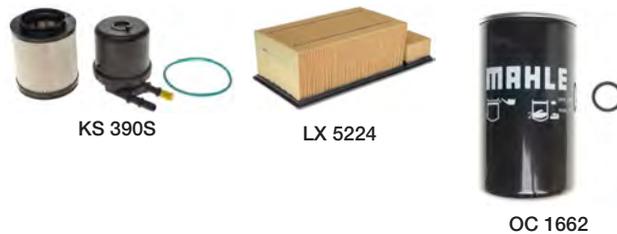
## Engine bearings

Part No.	Description	Notes
CB1953AP	Rod Bearing	TriMetal™ upper bearing
CB1953AP-.25MM	Rod Bearing	TriMetal™ upper bearing
CB1953AP-.50MM	Rod Bearing	TriMetal™ upper bearing
CB1953H**	Rod Bearing	
CB1953HX**	Rod Bearing	.001" extra oil clearance
CB1953HC**	Rod Bearing	Coated
CB1953HXC**	Rod Bearing	.001" extra oil clearance / coated
MS-2350A	Main Bearing Set	Coated lower main bearings, requires thrust washer set (not included – use with part number TW-711S)
MS-2350A-.25MM	Main Bearing Set	Coated lower main bearings, requires thrust washer set (not included – use with part number TW-711S)
MS-2350A-.50MM	Main Bearing Set	Coated lower main bearings, requires thrust washer set (not included – use with part number TW-711S)
MS-2384A	Main Bearing Set	Oversized housing bore O.D. resized .040" larger than stock. Coated lower main bearings, requires thrust washer set (not included – use with part number TW-711S)
MS-2384A-.25MM	Main Bearing Set	Oversized housing bore O.D. resized .040" larger than stock. Coated lower main bearings, requires thrust washer set (not included – use with part number TW-711S)
MS-2334H**	Main Bearing Set	Requires thrust washer set (not included – use with part number TW-711S)
MS-2334HX**	Main Bearing Set	.001" extra oil clearance, requires thrust washer set (not included – use with part number TW-711S)
MS-2334H-.25MM**	Main Bearing Set	Requires thrust washer set (not included – use with part number TW-711S)
MS-2334HC**	Main Bearing Set	Coated, requires thrust washer set (not included – use with part number TW-711S)
MS-2334HXC**	Main Bearing Set	.001" extra oil clearance / coated, requires thrust washer set (not included – use with part number TW-711S)
MS-2334HC-.25MM**	Main Bearing Set	Coated, requires thrust washer set (not included – use with part number TW-711S)
TW-711S	Thrust Washer	
SH-2232S	Camshaft Bearing Set	

\*\*MAHLE Performance

## Filters

Part No.	Description
KX 390S	Fuel filter
LX 5224	Air filter
OC 1662	Oil filter



## Thermal management - engine cooling

Part No.	Description	Notes
<b>TX 443 90</b>	Engine coolant thermostat	Offset design, air relief valve, and OEM style seal included



**TX 443 90**

## Ancillary

Part No.	Description	Notes
<b>211-4523</b>	Intake valve	2011-2019
<b>211-4524</b>	Exhaust valve	2011-2019

## Engine overhaul kit

Part No.	Description	Notes
<b>789-1014</b>	Overhaul kit	Call customer service at 800-248-9606 to order or for more information

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