



INTERSTATE-McBEE



REPLACEMENT ENGINE PARTS FOR

CATERPILLAR[®]

On Highway

APPLICATIONS

C12, C13, 3406, 3406E, C15



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Updated: January 2026

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cat-catalog-3400

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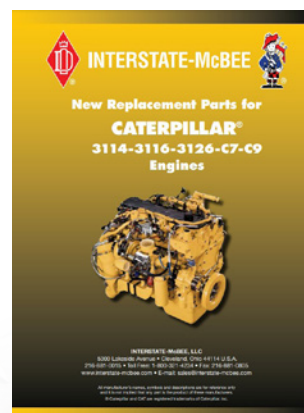
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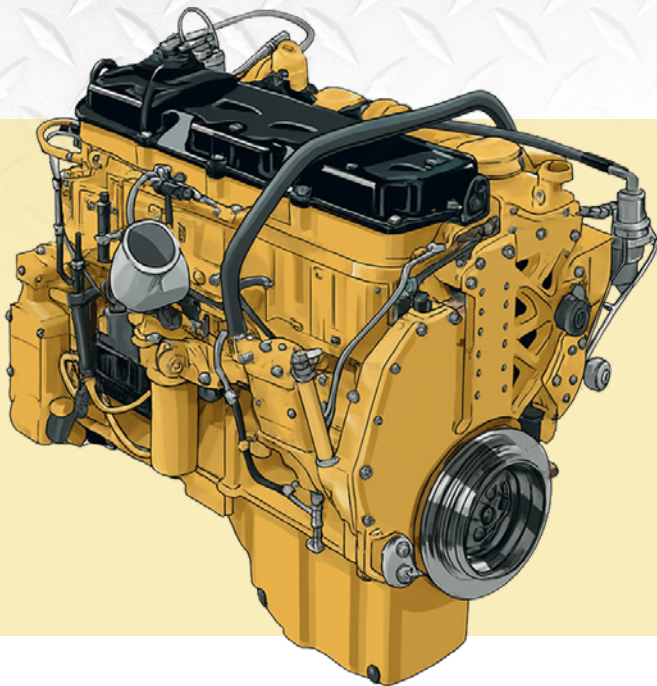
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- 3500 Series Engines



C12/C13 ENGINE



Displacement

12.0 & 12.5L

Power

335-600 hp

Torque

1,250-2,180 lb-ft

Manufacture Date: 1996-Present

Configuration: Inline 6-cylinder, turbocharged and aftercooled

Fuel System: Mechanical Electronic Unit Injector (MEUI)

APPLICATIONS



Power Gen



Defense



Rail



Construction/
Mining



Agriculture



Marine



On-Highway



Natural Gas

INTERSTATE-McBEE KITS

Kit# MCIF3882310



**Induction
hardened
cylinder liners**

**Select o-ring
seal materials to
prevent coolant
leaking and oil
contamination**

**McBee style
custom gasket
sets**

**Forged alloy
steel pistons for
superior strength**

RELATED MEDIA



Hardware Kits



Full Line Card



Re-Ring Kits

TRUCK ENGINE KITS: C12

| ESN | APPL | CYLINDER KIT | INFRAME KIT | OVERHAUL KIT | IF GKT SET | OH GKT SET |
|-------------|-------------|--------------|-----------------|-----------------|------------|------------|
| 1YN1-Up | Truck / C12 | CK1979328P | MCIF1979328-012 | MCOH1979328-011 | MCBC10012 | MCBC12011 |
| 2KS1-388 | Truck / C12 | CK1442948P | MCIF1442948-012 | MCOH1442948-011 | MCBC10012 | MCBC12011 |
| 2KS389-Up | Truck / C12 | CK1442948P | MCIF1442948-022 | MCOH1442948-021 | MCBC10022 | MCBC12021 |
| 8YF1-Up | Truck / C12 | CK1442948P | MCIF1442948-022 | MCOH1442948-021 | MCBC10022 | MCBC12021 |
| 9NS1-16227 | Truck / C12 | CK1442948P | MCIF1442948-022 | MCOH1442948-011 | MCBC10012 | MCBC12011 |
| 9NS16228-Up | Truck / C12 | CK1442948P | MCIF1442948-022 | MCOH1442948-021 | MCBC10022 | MCBC12021 |
| 9SM1-Up | Truck / C12 | CK1442948P | MCIF1442948-022 | MCOH1442948-021 | MCBC10022 | MCBC12021 |
| CPD1-Up | Truck / C12 | CK1442948P | MCIF1442948-022 | MCOH1442948-021 | MCBC10022 | MCBC12021 |
| GEP1-Up | Truck / C12 | CK1442948P | MCIF1442948-022 | MCOH1442948-021 | MCBC10022 | MCBC12021 |
| MBL1-122 | Truck / C12 | ** | ** | ** | MCBC10022 | MCBC12021 |
| MBL123-Up | Truck / C12 | CK1979374P | MCIF1979374-022 | MCOH1979374-021 | MCBC10022 | MCBC12021 |
| TME1-Up | Truck / C12 | CK1442948P | MCIF1442948-022 | MCOH1442948-021 | MCBC10022 | MCBC12021 |

TRUCK ENGINE KITS: C13

| ESN | APPL | CYLINDER KIT | INFRAME RE-RING | OVERHAUL RE-RING | IF GKT SET | OH GKT SET |
|-----------|-------------|--------------|-----------------|------------------|------------|------------|
| KCB & JAM | Truck / C13 | n/a | MCIFC13E | MCOHC13E | MCBC13022 | MCBC13021 |
| LEE | Truck / C13 | n/a | MCIFC13E | MCOHC13E | MCBC13032 | MCBC13031 |

| ESN | APPL | CYLINDER KIT | INFRAME KIT | OVERHAUL KIT | IF GKT SET | OH GKT SET |
|-----------|-------------|--------------|---------------|---------------|------------|------------|
| KCB & JAM | Truck / C13 | CK3882310P | MCIF3882310 | MCOH3882310 | MCBC13022 | MCBC13021 |
| LEE | Truck / C13 | CK3882310P | MCIF3882310-1 | MCOH3882310-1 | MCBC13032 | MCBC13031 |

** in development

Engine Kits Contain:

- ◆ Pistons
- ◆ Piston Pin Retainers
- ◆ Main Bearings
- ◆ Connecting Rod Bearings
- ◆ Piston Pins
- ◆ Piston Ring Sets
- ◆ Thrust Bearings
- ◆ IF/OH Gasket Set



CYLINDER COMPONENTS

| PART NUMBER | QUANTITY | | DESCRIPTION | COMMENT |
|-------------|----------|-----|--------------------------|--------------------|
| | C12 | C13 | | |
| CK1442948P | 6 | | Cylinder Kit | |
| CK1979328P | 6 | | Cylinder Kit | |
| CK1979374P | 6 | | Cylinder Kit | |
| CK3882310P | | 6 | Cylinder Kit | Use in engine sets |
| M-1442948 | 6 | | Piston Crown | |
| M-1979328 | 6 | | Piston Crown | |
| M-1979374 | 6 | | Piston Crown | |
| M-3882310 | | 6 | Piston Body | Use in engine sets |
| M-2382712 | 6 | | Piston Skirt | |
| M-RSC12E | 6 | | Piston Ring Set | |
| M-RSC13E | | 6 | Piston Ring Set | |
| M-1979251 | 6 | | Piston Pin Assembly | With end plugs |
| M-1979327 | | 6 | Piston Pin | |
| M-1979326 | | 12 | Piston Pin Retainer | |
| M-4695315 | 6 | 6 | Cylinder Liner | |
| M-4371409 | 6 | 6 | Cylinder Liner Seal Ring | |

ENGINE BEARINGS

| PART # | QTY | | DESCRIPTION | COMMENT |
|-----------|-----|-----|-----------------------------------|--------------|
| | C12 | C13 | | |
| M-2920484 | 6 | 6 | Connecting Rod Bearing - STD | |
| M-1280395 | 6 | 6 | Connecting Rod Bearing - .51mm OS | |
| M-1280396 | 6 | 6 | Connecting Rod Bearing - .76mm OS | |
| M-2110587 | 4 | 4 | Main Bearing - STD | |
| M-2110588 | 3 | 3 | Main Bearing - STD | |
| M-1280400 | 4 | 4 | Main Bearing - .51mm OS | |
| M-1280382 | 3 | 3 | Main Bearing - .51mm OS | |
| M-1280401 | 4 | 4 | Main Bearing - .76mm OS | |
| M-1280383 | 3 | 3 | Main Bearing - .76mm OS | |
| M-2463144 | 2 | 2 | Thrust Plate | |
| MCBC12CB | 1 | | Camshaft Bushing Kit | |
| M-2165584 | 1 | | Camshaft Bushing | Front |
| M-2165583 | 5 | | Camshaft Bushing | Intermediate |
| M-2165585 | 1 | | Camshaft Bushing | Rear |
| M-1878969 | | 7 | Camshaft Bushing | |
| MCBC13CB | | 1 | Camshaft Bushing Kit | |
| M-1878969 | | 7 | Camshaft Bushing | |
| M-1152972 | 6 | 6 | Connecting Rod Bushing | |
| M-9M2418 | 1 | 1 | Rear Idler Bushing | |

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C12 / C13 PARTS LISTING

CRANKSHAFT SEALS & DAMPERS

| PART | QUANTITY | | DESCRIPTION | COMMENT |
|-----------|----------|-----|------------------------------|---------------------------|
| | C12 | C13 | | |
| M-1260110 | 1 | | Front Crankshaft Seal Kit | ESN = 1YN1-12844, 2KS1-Up |
| M-1694166 | 1 | 1 | Front Crankshaft Seal Kit | |
| M-2264755 | 1 | 1 | Front Crankshaft Seal Kit | |
| M-9Y0821 | 1 | 1 | Front Crankshaft Wear Sleeve | |

| | | | | |
|-----------|---|---|-----------------------------|-------------|
| M-2264757 | 1 | 1 | Rear Crankshaft Seal Kit | |
| M-1005421 | 1 | 1 | Rear Crankshaft Seal Kit | Wet Housing |
| M-9Y810 | 1 | 1 | Rear Crankshaft Wear Sleeve | |

| | | | | |
|-----------|---|---|------------------|--|
| M-1678125 | 1 | 1 | Vibration Damper | |
|-----------|---|---|------------------|--|

| | | | | |
|-----------|---|---|------------|--|
| M-3264280 | 1 | | Crankshaft | |
| M-3133997 | | 1 | Crankshaft | |

C12 CYLINDER HEAD COMPONENTS

| PART # | QUANTITY | DESCRIPTION | COMMENT |
|------------|----------|------------------------|-------------------|
| N-7E9578 | 12 | Valve - Intake | |
| M-1929213 | 12 | Valve - Intake | |
| M-1799454 | 12 | Valve Seat - Intake | |
| M-1337029 | 12 | Valve - Exhaust | |
| M-1799453 | 12 | Valve Seat - Exhaust | |
| M-2A4429 | 48 | Valve Lock | |
| M-1008150 | 24 | Valve Guide | |
| M-2244441 | 24 | Valve Spring - Inner | |
| M-3322152 | 24 | Valve Spring - Outer | |
| M-7E7977 | 24 | Rotocoil | |
| M-1161102 | 6 | Injector Tube | |
| MCB1482144 | 1 | Cylinder Head Assembly | |
| MCBC12HBK | 1 | Head Bolt Kit | |
| M-1750454 | 26 | Cylinder Head Bolt | M16 X 2 X 160MM |
| M-2S5658 | 26 | Washer | |
| M-6V9607 | 7 | Cylinder Head Bolt | M8 X 1.25 X 120MM |
| M-3336379 | 1 | Camshaft | C12 |
| M-2237467 | 1 | Camshaft | C13, KCB & JAM |



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C13 CYLINDER HEAD COMPONENTS - KCB & JAM ESNs

| PART # | QUANTITY | DESCRIPTION | COMMENT |
|--------------|----------|------------------------|-------------------|
| M-2243028 | 12 | Valve - Intake | |
| M-2604855 | 12 | Valve Seat - Intake | |
| M-2243030 | 12 | Valve - Exhaust | |
| M-2241270 | 12 | Valve Seat - Exhaust | |
| M-2A4429 | 48 | Valve Lock | |
| M-2682953 | 24 | Valve Guide | |
| M-2244441 | 24 | Valve Spring - Inner | |
| M-3322152 | 24 | Valve Spring - Outer | |
| M-7E7977 | 24 | Rotocoil | |
| M-2634920 | 6 | Injector Tube | KCB14119 & up |
| M-22742390RK | 6 | Injector Tube Seal Kit | KCB14119 & up |
| MCB3453752 | 1 | Cylinder Head Assembly | KCB & JAM |
| MCBC13HBK | 1 | Head Bolt Kit | |
| M-2421811 | 26 | Cylinder Head Bolt | |
| M-2S5658 | 26 | Washer | |
| M-2104460 | 8 | Cylinder Head Bolt | |
| M-2237467 | 1 | Camshaft | KCB & JAM 10R2131 |

C13 CYLINDER HEAD COMPONENTS - LEE ESNs

| PART NUMBER | QUANTITY | DESCRIPTION | COMMENT |
|------------------|----------|------------------------|----------|
| M-2527802 | 12 | Valve - Intake | |
| M-2604855 | 12 | Valve Seat - Intake | |
| M-2481467 | 12 | Valve - Exhaust | |
| M-2241270 | 12 | Valve Seat - Exhaust | |
| M-2A4429 | 48 | Valve Lock | |
| M-2682953 | 24 | Valve Guide | |
| M-2244441 | 24 | Valve Spring - Inner | |
| M-3322152 | 24 | Valve Spring - Outer | |
| M-6I2663 | 24 | Rotocoil | |
| M-2634920 | 6 | Injector Tube | |
| M-22742390RK | 6 | Injector Tube Seal Kit | |
| M-2511005RK | 12 | Pin & Roller Kit | Valve |
| M-2027475RK | 6 | Pin & Roller Kit | Injector |
| MCBC13HBK | 1 | Head Bolt Kit | |
| M-2421811 | 26 | Cylinder Head Bolt | |
| M-2S5658 | 26 | Washer | |
| M-2104460 | 8 | Cylinder Head Bolt | |

AIR INLET & EXHAUST SYSTEM

| PART NUMBER | QUANTITY | | DESCRIPTION | COMMENT |
|------------------|----------|----------|---------------------------|------------------------------|
| | C12 | C13 | | |
| MCBC12ESK | 1 | 1 | Exhaust Manifold Stud Kit | General usage |
| M-1163715 | 12 | 12 | Stud Taperlock | |
| M-4P4369 | 12 | 12 | Spacer | |
| M-3E8017 | 12 | 12 | Nut | |
| M-9X8281 | 4 | | Turbo Mounting Stud | |
| M-2459750 | | 4 | Turbo Mounting Stud | |
| M-3E8017 | 4 | | Turbo Mounting Nut | |
| M-9X6620 | | 4 | Turbo Mounting Nut | |
| MCBC13ESK | | 1 | Exhaust Stud Kit | Low mount turbo, low cab fwd |
| M-1163715 | | 12 | Stud | |
| M-2245422 | | 2 | Stud Taperlock | |
| M-4P4369 | | 12 | Spacer | |
| M-6V5839 | | 12 | Washer | |
| M-3E8017 | | 12 | Nut | |

FUEL SYSTEM

| PART NUMBER | QUANTITY | | DESCRIPTION | COMMENT |
|------------------|----------|----------|----------------------------|-----------------------|
| | C12 | C13 | | |
| R-10R0963 | 6 | | Injector - Rebuilt | Ref# 2123463 (NEW) |
| R-10R0961 | 6 | | Injector - Rebuilt | Ref# 2123465 (NEW) |
| R-10R0966 | 6 | | Injector - Rebuilt | Ref# 2123461 (NEW) |
| R-10R0968 | 6 | | Injector - Rebuilt | Ref# 2123466 (NEW) |
| R-10R2977 | | 6 | Injector - Rebuilt | Ref# 2490708 (NEW) |
| M-2245797 | 6 | | Injector O-Ring Kit | External Seals |
| M-2153198 | | | 1-Injector Seal Ring | Upper |
| M-1198784 | | | 1-Injector Seal Ring | Intermediate |
| M-9X7317 | | | 1-Injector Seal Ring | Lower |
| M-2481394 | | 6 | Injector O-Ring Kit | External Seals |
| M-2303775 | | | 1-Injector Seal Ring | Upper |
| M-2303728 | | | 1-Injector Seal Ring | Intermediate |
| M-9X7317 | | | 1-Injector Seal Ring | Lower |
| M-1375541 | 1 | 1 | Fuel Priming Pump | |
| M-1P0436 | 1 | 1 | Fuel Priming Pump Gasket | |
| M-3848611 | | 1 | Fuel Transfer Pump | |



LUBRICATION SYSTEM

| PART NUMBER | QUANTITY | | DESCRIPTION | COMMENT |
|-------------|----------|-----|---------------------------|--------------------|
| | C12 | C13 | | |
| M-2335220 | 1 | | Oil Pump | |
| M-2231608 | | 1 | Oil Pump | |
| M-6D7146 | 1 | 1 | Seal Ring - Body to Cover | |
| MCBC12016 | 1 | 1 | Oil Pump Installation Kit | |
| M-6N2985 | 1 | | Oil Filler Cap | 1 7/8" Valve Cover |
| M-5L2952 | 1 | | Oil Filler Cap | 1 1/2" side fill |
| M-1154517 | 1 | | Oil Cooler Core | |
| M-2368745 | | 1 | Oil Cooler Core | KCB & JAM ESNs |
| M-2775774 | | 1 | Oil Cooler Core | LEE ESNs |
| M-1095308 | 1 | 1 | Oil Pan Seal | |
| M-7C8296 | 14 | 14 | Oil Pan Isolator | |
| M-2173673 | | 1 | Oil Pan Seal | |
| M-2173674 | | 14 | Oil Pan Isolator | |

COOLING SYSTEM

| PART NUMBER | QUANTITY | | DESCRIPTION | COMMENT |
|-------------|----------|-----|--------------------------|----------------------------|
| | C12 | C13 | | |
| M-2477133 | AR | AR | Regulator - 190° | Single & Double types used |
| M-3S9643 | AR | AR | Regulator Seal | |
| M-7E7912 | 1 | | Regulator Housing Gasket | Single Regulator |
| M-2275075 | | 1 | Regulator Housing Gasket | Single Regulator |
| M-1314164 | 1 | | Regulator Housing Gasket | Double Regulator |
| M-2246361 | | 1 | Regulator Housing Gasket | Double Regulator |
| M-7L6580 | | 2 | By Pass Tube Seal | Double Regulator |
| M-1767000 | 1 | | Water Pump | |
| M-3520206 | | 1 | Water Pump | |
| M-6V7350 | 1 | 1 | Water Pump Mounting Seal | |

SENSORS

| PART NUMBER | QUANTITY | | DESCRIPTION | COMMENT |
|-------------|----------|-----|----------------------|---------|
| | C12 | C13 | | |
| M-1946722 | AR | AR | Sensor - Pressure | |
| M-1946724 | AR | AR | Sensor - Pressure | |
| M-1946725 | AR | AR | Sensor - Pressure | |
| M-2644297 | AR | AR | Sensor - Temperature | |

AR = As Required

GASKET SETS - McBEE CUSTOM

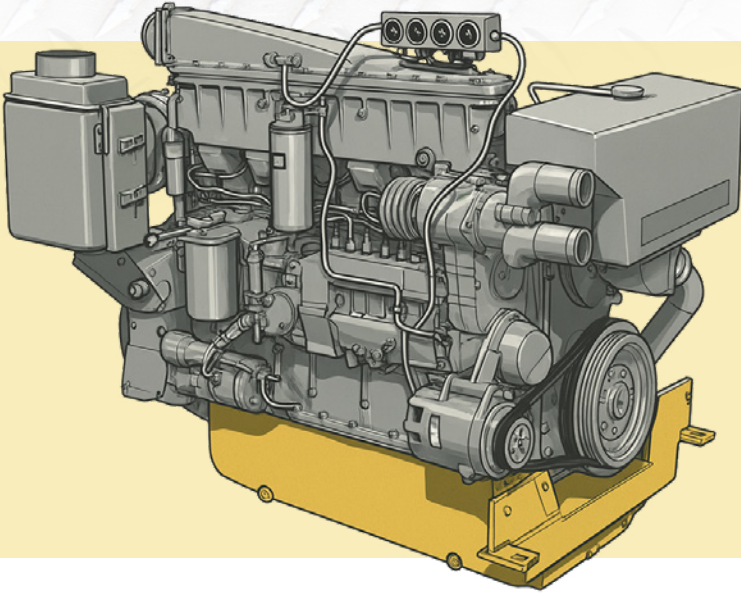
| PART NUMBER | QUANTITY | | DESCRIPTION | COMMENT |
|-------------|----------|-----|--------------------------|---|
| | C12 | C13 | | |
| MCBC12011 | 1 | | Overhaul Gasket Set | 1YN, 2KS1-388 & 9NS1-16227 "Scalloped" Head Gasket |
| MCBC10012 | 1 | | InFrame Gasket Set | |
| MCBC10013 | 1 | | Cylinder Head Gasket Set | |
| MCBC12021 | 1 | | Overhaul Gasket Set | 2KS389 & up 9NS16228 & up 9SM, CPD, MBL & TME |
| MCBC10022 | 1 | | InFrame Gasket Set | |
| MCBC10023 | 1 | | Cylinder Head Gasket Set | |
| MCBC12121 | 1 | | Overhaul Gasket Set | Generator, Industrial & Machine |
| MCBC12122 | 1 | | InFrame Gasket Set | |
| MCBC12123 | 1 | | Cylinder Head Gasket Set | |
| MCBC13021 | | 1 | Overhaul Gasket Set | KCB, JAM |
| MCBC13022 | | 1 | InFrame Gasket Set | |
| MCBC13023 | | 1 | Cylinder Head Gasket Set | |
| MCBC13031 | | 1 | Overhaul Gasket Set | LEE |
| MCBC13032 | | 1 | InFrame Gasket Set | |
| MCBC13033 | | 1 | Cylinder Head Gasket Set | |



GASKET SETS - MODULAR

| PART NUMBER | QUANTITY | | DESCRIPTION | COMMENT |
|-------------|----------|-----|-------------------------------|---------------------|
| | C12 | C13 | | |
| M-1390616 | 1 | | Air Compressor Set | IYN, 2SK & 9NS |
| M-4173776 | 1 | | Central & Lower Set | |
| M-4174536 | 1 | | Front Structure Set | |
| M-2245797 | 6 | | Fuel Injector Set | |
| M-2245876 | 1 | | Fuel System Set | |
| M-3949182 | 1 | | Oil Cooler Set | |
| M-7X7975 | 1 | | Oil Pump Set - External | |
| M-2266620 | 1 | | Rear Structure Set | |
| M-3949183 | 1 | | Turbocharger Installation Set | |
| M-1473781 | 1 | | Water Pump Installation Set | |
| M-1933318 | 1 | | Air Compressor Set | MBL, CPD, GEP & TME |
| M-2434780 | 1 | | Central & Lower Set | |
| M-4178843 | 1 | | Front Structure Set | |
| M-2245797 | 6 | | Fuel Injector Set | |
| M-2501273 | 1 | | Fuel System Set | |
| M-2434690 | 1 | | Oil Cooler Set | |
| M-7X7975 | 1 | | Oil Pump Set - External | |
| M-2266620 | 1 | | Rear Structure Set | |
| M-3949183 | 1 | | Turbocharger Installation Set | |
| M-3156714 | 1 | | Water Pump Installation Set | |
| M-3149899 | | 1 | Air Compressor Set | KCB, JAM |
| M-3136846 | | 1 | Central & Lower Set | |
| M-3136898 | | 1 | Front Structure Set | |
| M-2481394 | | 6 | Fuel Injector Set | |
| M-3136847 | | 1 | Fuel System Setu | |
| M-2655324 | | 1 | Oil Cooler Setw | |
| M-2655326 | | 1 | Oil Pump Set - External | |
| M-2266620 | | 1 | Rear Structure Set | |
| M-4367102 | | 1 | Turbocharger Installation Set | |
| M-3142771 | | 1 | Water Pump Installation Set | |
| M-3149899 | | 1 | Air Compressor Set | LEE |
| M-4394077 | | 1 | Central & Lower Set | |
| M-4388606 | | 1 | Front Structure Set | |
| M-2481394 | | 6 | Fuel Injector Set | |
| M-3136847 | | 1 | Fuel System Set | |
| M-4394451 | | 1 | Oil Cooler Set | |
| M-2655326 | | 1 | Oil Pump Set - External | |
| M-3348404 | | 1 | Rear Structure Set | |
| M-4390524 | | 1 | Turbocharger Installation Set | |
| M-3348407 | | 1 | Water Pump Installation Set | |

3406 A / B / C ENGINE



Displacement

14.6L

Power

250-550 hp

Torque

Up to 1,800 lb-ft

Manufacture Date: 1976-1993

Configuration: Inline 6-cylinder, turbocharged and aftercooled

Fuel System: Mechanical fuel injection only

APPLICATIONS



Power Gen



Defense



Rail



**Construction/
Mining**



Agriculture



Marine



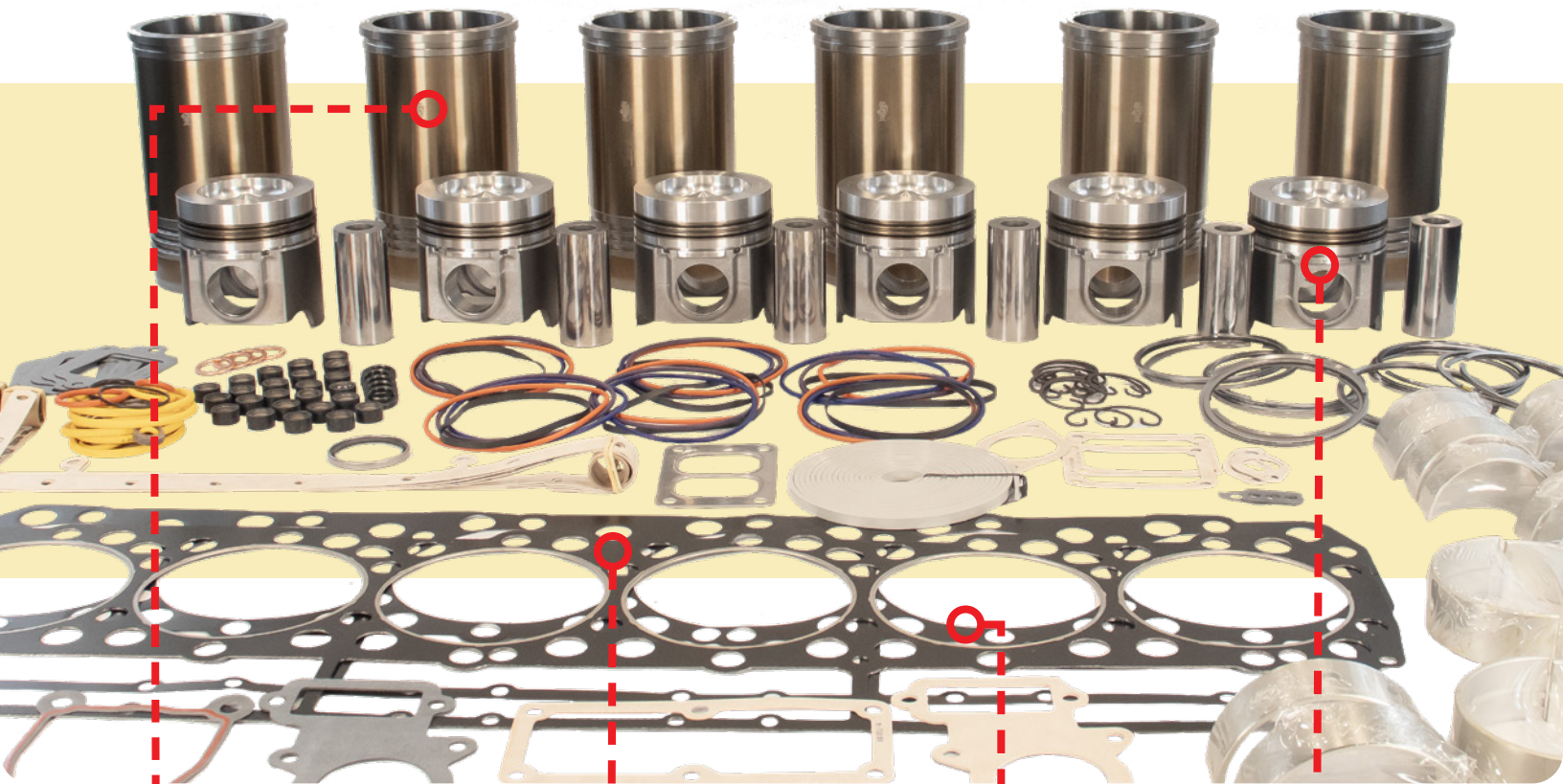
On-Highway



Natural Gas

INTERSTATE-McBEE KITS

Kit# MCIF3781441-062



**Alloy cast iron
cylinder liners
with coated liner
seals**

**Graphite composite
multi-steel core
head gasket**

**"Floating" fire
rings to provide
complete bore
seal**

**Aluminum
Pistons**

RELATED MEDIA



Oil Pumps



Line Card

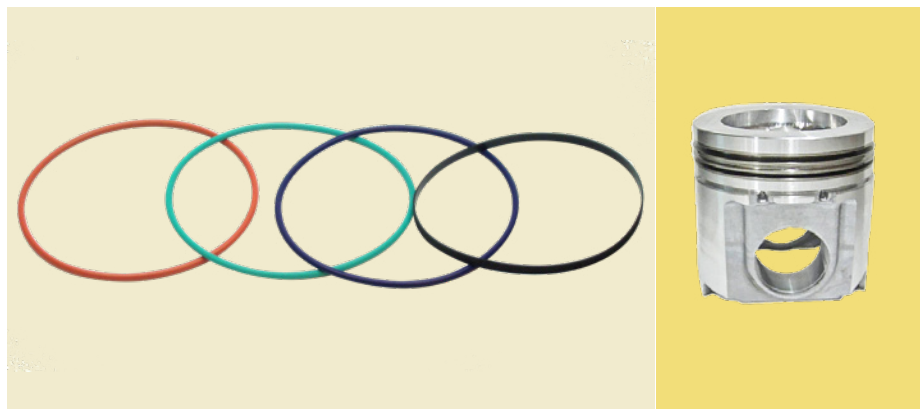


**Marine
Applications**

CYLINDER COMPONENTS

| PART NUMBER | QUANTITY | DESCRIPTION | COMMENT |
|-------------|----------|-------------------------------------|------------------------|
| M-6N4126 | 6 | Piston Body | Pre-combustion chamber |
| M-7E292 | 6 | Piston Body | Ref# 0R3757 |
| M-7E539 | 6 | Piston Body | Ref# 0R2975 |
| M-7E8656 | 6 | Piston Body | Ref# 0R3783 |
| M-7E8700 | 6 | Piston Body | Ref# 0R3782 |
| M-7N3633 | 6 | Piston Body | Ref# 0R1570 - P.C. |
| M-9Y7212 | 6 | Piston Body | Ref# 0R2862 |
| M-3781441 | 6 | Piston Body | Ref# 20R1118 |
| M-1010016 | 6 | Piston Body | Ref# 0R4281 |
| M-1175063 | 6 | Piston Body | |
| M-1601131 | 6 | Piston Body | Ref# 0R4178 |
| M-3780509 | 6 | Piston Body | Ref# 20R1115, 20R1116 |
| M-8N822 | 6 | Piston Ring Set | |
| M-1W8922 | 6 | Piston Ring Set | |
| M-7N9806 | 6 | Piston Pin | |
| M-7N9807 | 6 | Piston Pin | |
| M-8N1608 | 6 | Piston Pin | |
| M-1687246 | 6 | Piston Pin | |
| M-3F8513 | 12 | Piston Pin Retainer | |
| M-7E1177 | 12 | Piston Pin Retainer | |
| M-7E5665 | 12 | Piston Pin Retainer | |
| M-1979322 | 6 | Cylinder Liner | |
| M-1609874 | 6 | Gasket Set - Cylinder Liner Packing | |
| M-4W6061 | AR | Sleeve, lower bore repair | |
| M-9Y3368 | AR | Cylinder Liner Insert - Stainless | .0324" |
| M-2W3815 | AR | Cylinder Liner Insert - Stainless | .0632" |
| MCB6640 | AR | Repair Sleeve Upper | |
| M-7W4990 | 6 | Jet Assembly - Piston Cooling | |

AR = As Required



ENGINE BEARINGS

| PART # | QUANTITY | DESCRIPTION | COMMENT |
|---------------|----------|--------------------------------|------------------------|
| M-3285574G | 6 | Connecting Rod Bearing - STD | Grooved Narrow Journal |
| M-9Y9497.010 | 6 | Connecting Rod Bearing - .010" | Narrow Journal |
| M-4W5702 | 6 | Connecting Rod Bearing - .025" | Narrow Journal |
| M-4W5703 | 6 | Connecting Rod Bearing - .050" | Narrow Journal |
| M-9Y7735G | 6 | Connecting Rod Bearing - STD | Grooved Wide Journal |
| M-9Y7735G-010 | 6 | Connecting Rod Bearing - .010" | Wide Journal |
| M-7E1558 | 6 | Connecting Rod Bearing - .025" | Wide Journal |
| M-7E1559 | 6 | Connecting Rod Bearing - .050" | Wide Journal |
| M-3178766 | 7 | Main Bearing - STD | |
| M-4W5492.010 | 7 | Main Bearing - .010" | |
| M-4W5698 | 7 | Main Bearing - .025" | |
| M-4W5699 | 7 | Main Bearing - .050" | |
| M-2531752 | 2 | Thrust Washers | |
| M-8N705 | 6 | Connecting Rod Bushing | Straight Rod |
| M-8N706 | 6 | Connecting Rod Bushing | Narrow Taper |
| M-8N2018 | 6 | Connecting Rod Bushing | Wide Taper |
| M-4P8495 | 6 | Connecting Rod Bushing | Side Relief |
| M-6I2726 | 6 | Connecting Rod Bushing | Big Pin |
| MCB3406CB | 1 | Crankshaft Bearing Kit | |
| M-4N685 | 6 | Camshaft Bushing | |
| M-4N6658 | 1 | Camshaft Bushing | |
| M-1317123 | 1 | Idler Gear Bushing | |

CRANKSHAFT SEALS & DAMPERS

| PART NUMBER | QUANTITY | DESCRIPTION | COMMENT |
|-------------|----------|---------------------------|----------|
| M-7C4859 | 1 | Crankshaft | w/o Gear |
| M-6I1453 | 1 | Crankshaft - Wide Bearing | w/o Gear |
| M-1425867 | 1 | Front Crankshaft Seal | |
| M-1425868 | 1 | Rear Crankshaft Seal | |
| M-1678126 | 1 | Vibration Damper | |
| M-1682100 | AR | Vibration Damper Spacer | |

AR = As Required





CYLINDER HEAD COMPONENTS

| PART NUMBER | QUANTITY | DESCRIPTION | COMMENT |
|-------------|----------|--------------------------|--------------------------------|
| M-1152368 | 12 | Valve - Intake | |
| M-1152367 | 12 | Valve - Exhaust | |
| M-2A4429 | 48 | Valve Lock | |
| M-4N5893 | 12 | Valve Seat - Intake | |
| M-1W5283 | 12 | Valve Seat - Exhaust | |
| M-1737188 | 24 | Valve Guide | |
| M-1227374 | 24 | Valve Guide | Machined for Stem Seal |
| M-1632478 | 24 | Valve Stem Seal | |
| M-6N7175 | 24 | Rotocoil - Single Spring | Includes M-6N7174 Shield |
| M-6N7174 | 24 | Rotocoil Shield | |
| M-4W2474 | 24 | Rotocoil - Double Spring | 3406 B & C |
| M-4N5906 | 24 | Valve Spring | Single Spring |
| M-4W2472 | 24 | Valve Spring - Inner | Dual Spring |
| M-4W2471 | 24 | Valve Spring - Outer | Dual Spring |
| M-4W2473 | 24 | Valve Spring Seat | Dual Spring |
| M-1006920 | 6 | Nozzle Adapter | 40mm (verify w/ ESN) |
| M-8M5249 | 6 | Nozzle Adapter Seal Ring | 40mm (verify w/ ESN) |
| M-7W5435 | 6 | Nozzle Adapter | 40mm (verify w/ ESN) |
| M-5H7153 | 6 | Nozzle Adapter Seal Ring | 40mm (verify w/ ESN) |
| M-4N7253 | 6 | Nozzle Adapter Gasket | 40mm |
| M-2S2251 | 6 | Nozzle Adapter Seal Ring | 55mm |
| M-6I2981 | 1 | Spacer Plate | |
| M-2M6471 | 1 | Cup Plug | 1.5" |
| M-3B623 | 10 | Cup Plug | 1" |
| M-3B645 | 12 | Cup Plug | 1.25" |
| M-5P5678-6 | 1 | Valve Cover Gasket | 6 Meters |
| M-5P5678-9 | 1 | Valve Cover Gasket | Engine Brake Equipped 9 Meters |

CAMSHAFT & LIFTERS

| PART NUMBER | QUANTITY | DESCRIPTION | COMMENT |
|-------------|----------|-----------------------|----------------------|
| M-1007408 | 1 | Camshaft | w/o Gear ref. 0R3787 |
| M-4223883 | 12 | Valve Lifter Assembly | |
| M-4W3817 | 12 | Lifter Repair Kit | Roller, Pin and Lock |
| M-3056843 | 12 | Lifter Guide Spring | |

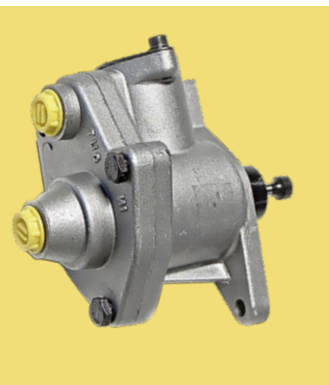
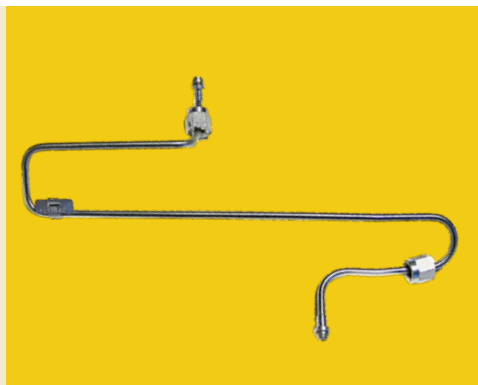
FUEL SYSTEM

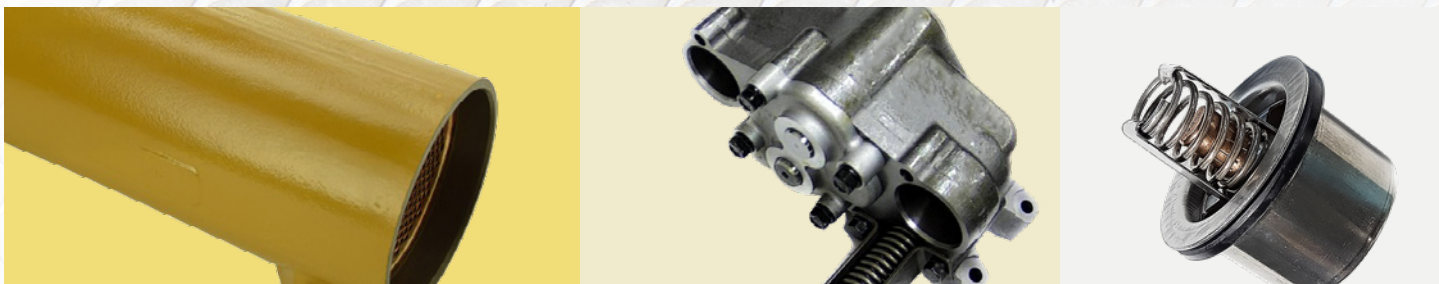
| PART NUMBER | QUANTITY | DESCRIPTION | COMMENT |
|-------------|----------|-------------------------------|-----------------------|
| M-9L6884 | 6 | Fuel Nozzle - Capsule | Direct Injection |
| M-9N3246 | 6 | Fuel Nozzle - Capsule | |
| M-4W7017 | 6 | Fuel Nozzle - 7000 Series | R-OR3421 (Reman) |
| M-4W7018 | 6 | Fuel Nozzle - 7000 Series | R-OR3422 (Reman) |
| M-4W7022 | 6 | Fuel Nozzle - 7000 Series | R-OR3426 (Reman) |
| M-7W7026 | 6 | Fuel Nozzle - 7000 Series | R-OR3423 (Reman) |
| M-7W7032 | 6 | Fuel Nozzle - 7000 Series | R-OR3424 (Reman) |
| M-7W7037 | 6 | Fuel Nozzle - 7000 Series | R-OR3425 (Reman) |
| M-7W7040 | 6 | Fuel Nozzle - 7000 Series | R-OR3586 (Reman) |
| M-7W7041 | 6 | Fuel Nozzle - 7000 Series | R-OR3587 (Reman) |
| M-7W7042 | 6 | Fuel Nozzle - 7000 Series | R-OR3588 (Reman) |
| M-7W7043 | 6 | Fuel Nozzle - 7000 Series | R-OR3589 (Reman) |
| M-1007556 | 6 | Fuel Nozzle - 7000 Series | R-OR4337 (Reman) |
| M-1007558 | 6 | Fuel Nozzle - 7000 Series | R-OR4339 (Reman) |
| MCBKT7000 | AR | Nozzle Seal Kit - 7000 Series | |
| MCB3406A | 1 | Injection Pump Overhaul Kit | Gaskets & Seals 3406A |
| MCB3406B | 1 | Injection Pump Overhaul Kit | Gaskets & Seals 3406B |
| MCB3406C | 1 | Injection Pump Overhaul Kit | Gaskets & Seals 3406C |
| MCB3406BPM | 1 | Injection Pump Mounting Kit | |
| M-1W1700 | 1 | Fuel Transfer Pump | Ref# OR3008 |
| MCB22240 | 1 | O/H Kit Fuel Transfer Pump | |
| M-1052508 | 1 | Fuel Priming Pump | Short |
| M-1375541 | 1 | Fuel Priming Pump | Tall |
| M-1P436 | 1 | Fuel Priming Pump Gasket | |
| MCB34062 | 1 | Fuel Ratio Repair Kit | |
| M-1W9168 | AR | Fuel Line Clamp | |
| M-1W9169 | AR | Fuel Line Clamp | Threaded |

AR = As Required

FUEL INJECTION LINES

| MODEL | LINE #1 | LINE #2 | LINE #3 | LINE #4 | LINE #5 | LINE #6 |
|---------|-----------|-----------|-----------|-----------|-----------|-----------|
| 3406 | M-4N9971 | | | M-4N9974 | M-4N9975 | M-4N9976 |
| 3406 | M-9Y1081 | M-9Y1082 | M-9Y1083 | M-9Y1084 | M-9Y1085 | M-9Y1086 |
| 3406B/C | M-1917941 | M-1917942 | M-1917943 | M-1917944 | M-1917945 | M-1917946 |





LUBRICATION SYSTEM

| PART # | QUANTITY | DESCRIPTION | COMMENT |
|------------|----------|----------------------|-----------------------|
| M-7C3039 | 1 | Cooler Core | Ref# 0R5511 |
| M-1330125 | 1 | Oil Cooler | |
| M-1090077 | 2 | Seal O-Ring | |
| M-4N733 | 1 | Oil Pump | Ref# 0R9448 |
| M-6N1931 | 1 | Relief Plunger | |
| M-2S2760 | 1 | Plunger Spring | |
| MCB3400RK | 1 | Oil Pump Rebuild Kit | For use on 4N733 Pump |
| M-6N2985 | 1 | Oil Filler Cap | |
| M-0S1588 | 40 | Oil Pan Bolt | |
| M-5M2894 | 40 | Washer | |
| M-4N1151 | AR | Oil Pan Gasket | Puzzle Style |
| M-4N1151-6 | AR | Oil Pan Gasket | One Piece Style |

AR = As Required

COOLING SYSTEM

| PART NUMBER | QUANTITY | DESCRIPTION | COMMENT |
|-------------|----------|----------------------------|--------------------------------|
| M-4W4011 | 1 | Regulator - 170° | |
| M-2485513 | 1 | Regulator - 180° | |
| M-2477133 | 1 | Regulator - 190° | |
| M-3S9643 | 1 | Regulator Seal | |
| M-4N1156 | 2 | Gasket | |
| M-7C307 | 1 | Gasket | |
| M-1354926 | 1 | Water Pump | Ref. 10R482 (Reman) |
| M-1282922 | 1 | Water Pump Mounting Gasket | |
| M-7C9222 | 1 | Water Pump Adapter Plate | Aluminum |
| M-4P2383 | 1 | Water Pump Adapter Plate | Cast Iron |
| M-1279885 | 1 | Water Pump Rebuild Kit** | |
| M-1293068 | 1 | Water Pump Rebuild Kit** | Ball Bearing |
| M-1293069 | 1 | Water Pump Rebuild Kit** | Roller Bearing |
| M-1386744 | 1 | Water Pump Rebuild Kit** | Roller Bearing & Unitized Seal |
| M-8H9789 | 2 | Fan Hub Bearing | |
| M-5S2106 | 1 | Fan Hub Seal | |
| M-7F2122 | 1 | Fan Hub O-Ring Seal | |

**Note: Match to pump via serial # & arrangement

EXHAUST SYSTEM

| PART # | QUANTITY | DESCRIPTION | COMMENT |
|-------------|----------|-------------------------------|------------------|
| MCB3406SK | 1 | Stud Kit | 3406A/B |
| MCB3406ESK | 1 | Stud Kit | 3406C |
| MCB3406CHKT | 1 | Exhaust Hardware Kit | 3406C |
| M-1948124 | 6 | Exhaust Port Sleeve | 3406C |
| M-6L8562 | 1 | Exhaust Manifold Stud - 1.77" | 3406A/B |
| M-7L520 | 1 | Exhaust Manifold Stud - 2" | |
| M-4S6137 | 11 | Exhaust Manifold Stud - 3.1" | |
| M-1061793 | 1 | Exhaust Manifold Stud - 2.36" | 3406A/B/C |
| M-1061792 | 11 | Exhaust Manifold Stud - 4" | 3406C |
| M-2S3770 | 11 | Spacer - 1.32" | 3406A |
| M-1083612 | 11 | Spacer - 2" | 3406B |
| M-2S3770 | 1 | Spacer - 1.32" | |
| M-1064159 | 1 | Spacer - .532" | 3406C |
| M-1083612 | 11 | Spacer - 2" | |
| M-2N2766 | 12 | Locknut | |
| M-5M2894 | 12 | Hard Washer | |
| M-2N2765 | 4 | Turbo Mounting Bolt | High Temperature |
| M-2N2766 | 4 | Turbo Mounting Locknut | |

GASKET SETS - McBEE CUSTOM

| PART NUMBER | QUANTITY | DESCRIPTION | COMMENT |
|-------------|----------|---------------------|--|
| MCB3406031 | 1 | Overhaul Gasket Set | 92U5944-Up |
| MCB3406032 | 1 | InFrame Gasket Set | |
| MCB3406033 | 1 | Cylinder Head Set | |
| MCB3406051 | 1 | Overhaul Gasket Set | 3406B JWAC |
| MCB3406052 | 1 | InFrame Gasket Set | |
| MCB3406053 | 1 | Cylinder Head Set | |
| MCB3406061 | 1 | Overhaul Gasket Set | 3406B ATAAC |
| MCB3406062 | 1 | InFrame Gasket Set | |
| MCB3406063 | 1 | Cylinder Head Set | |
| MCB3406111 | 1 | Overhaul Gasket Set | 3406C 19-bolt Flywheel Housing |
| MCB3406112 | 1 | InFrame Gasket Set | |
| MCB3406113 | 1 | Cylinder Head Set | |
| MCB3406271 | 1 | Overhaul Gasket Set | 3406C round Exhaust Ports 24-bolt Flywheel Housing |
| MCB3406272 | 1 | InFrame Gasket Set | |
| MCB3406273 | 1 | Cylinder Head Set | |

Note: Injector O-ring is included in all McBee Custom Gasket Sets

GASKET SETS - MODULAR

| PART NUMBER | QUANTITY | DESCRIPTION | COMMENT |
|-------------|----------|-------------------------------|------------------------------|
| M-1909861 | 1 | Aftercooler & Lines Set | 3406A General Usage |
| M-6V851 | 1 | Air Compressor Set | |
| M-5P8108 | 1 | Central & Lower Set | |
| M-2337083 | 1 | Front Structure Set | |
| M-6V5497 | 1 | Fuel System Set | |
| M-1144787 | 1 | Oil Cooler Set | |
| M-2326574 | 1 | Rear Structure Set | |
| M-1601113 | 1 | Turbocharger Installation Set | |
| M-5P8059 | 1 | Water Lines Set | |
| M-1282922 | 1 | Water Pump Installation Set | |
| M-1909861 | 1 | Aftercooler & Lines Set | 3406B JWAC General Usage |
| M-6V9896 | 1 | Air Compressor Set | |
| M-8T6678 | 1 | Central & Lower Set | |
| M-2341874 | 1 | Front Structure Set | |
| M-8T6692 | 1 | Fuel System Set | |
| M-1153657 | 1 | Oil Cooler Set | |
| M-2326574 | 1 | Rear Structure Set | |
| M-6V9727 | 1 | Turbocharger Installation Set | |
| M-1282922 | 1 | Water Pump Installation Set | |
| M-6V9896 | 1 | Air Compressor Set | 3406B ATAAC General Usage |
| M-8T6678 | 1 | Central & Lower Set | |
| M-2341874 | 1 | Front Structure Set | |
| M-7X2754 | 1 | Fuel System Set | |
| M-1153657 | 1 | Oil Cooler Set | |
| M-2326574 | 1 | Rear Structure Set | |
| M-8C3248 | 1 | Turbocharger Installation Set | |
| M-1282922 | 1 | Water Pump Installation Set | |
| M-1243005 | 1 | Air Compressor Set | 3406C General Usage |
| M-1269520 | 1 | Central & Lower Set | |
| M-2341874 | 1 | Front Structure Set | |
| M-1228900 | 1 | Fuel System Set | |
| M-1415787 | 1 | Oil Cooler Set | |
| M-2323679 | 1 | Rear Structure Set | |
| M-1134421 | 1 | Turbocharger Installation Set | |
| M-1282922 | 1 | Water Pump Installation Set | |



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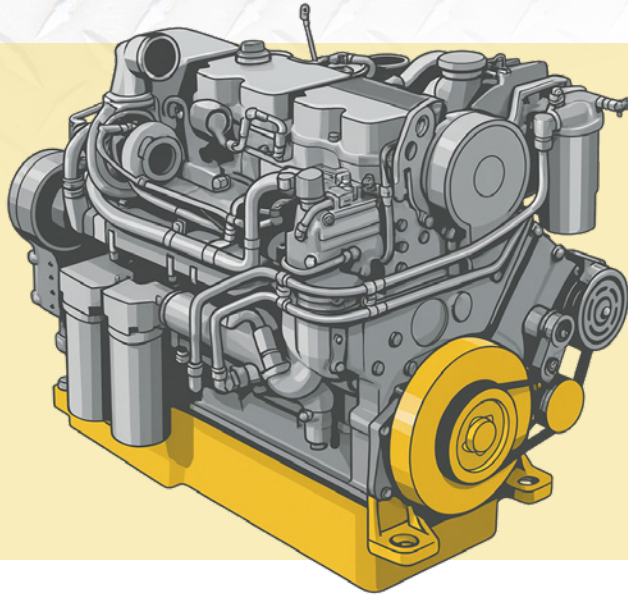


3406 A / B / C PARTS LISTING

22

All manufacturer's names, numbers, symbols & descriptions are used for reference purposes only & does not imply that any part listed is the product of these manufacturers.

3406E-C15 ENGINE



Displacement

14.6L & 15.2L

Power

310-625 hp

Torque

Up to 2,050 lb-ft

Manufacture Date: 1993-Present

Configuration: Inline 6-cylinder, turbocharged and aftercooled

Fuel System: Mechanical Electronic Unit Injector (MEUI)

APPLICATIONS



Power Gen



Defense



Rail



Construction/
Mining



Agriculture



Marine



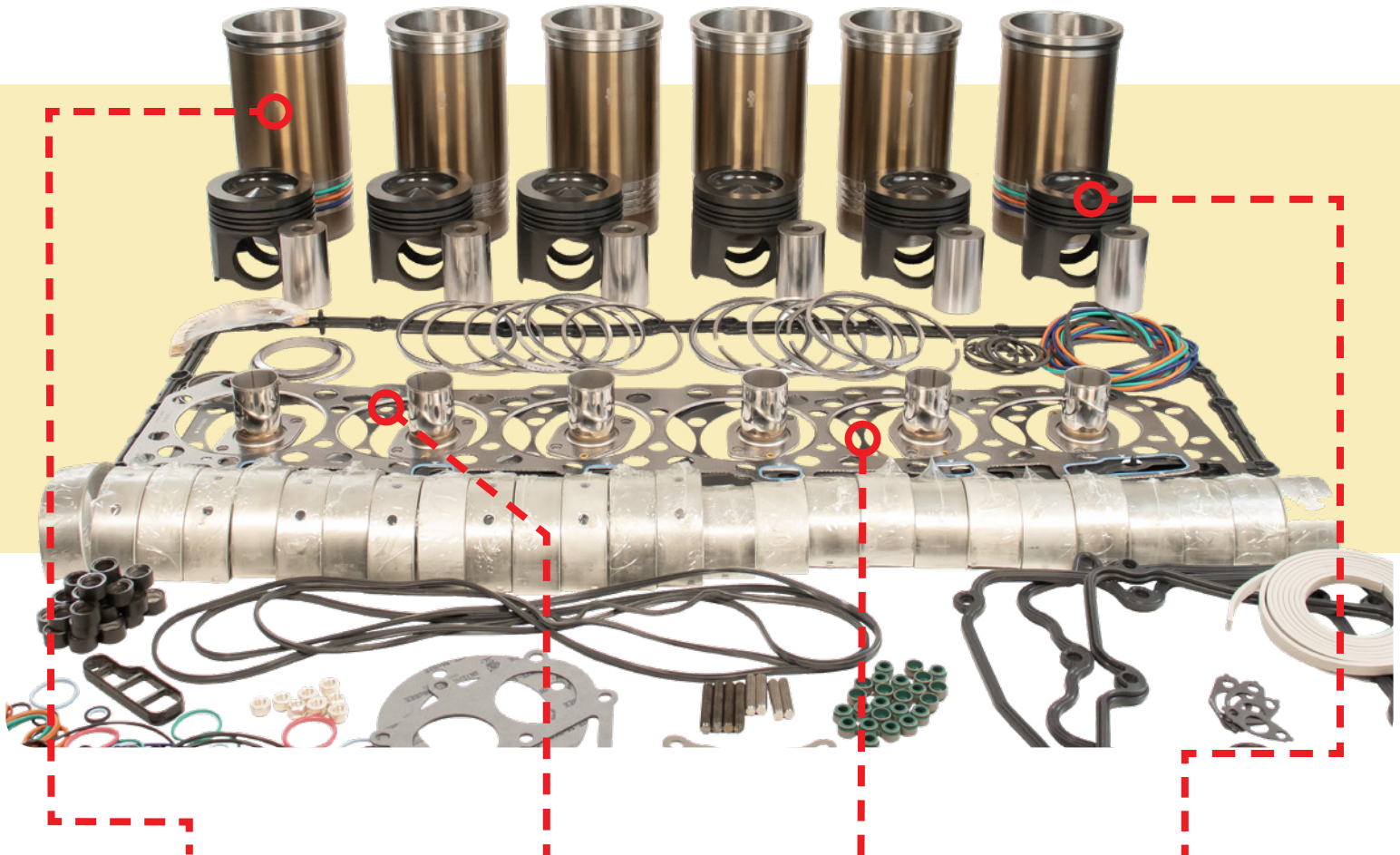
On-Highway



Natural Gas

INTERSTATE-McBEE KITS

Kit# MCIF3564787



**Alloy cast iron
cylinder liners
with coated liner
seals**

**Graphite composite
multi-steel core
head gasket**

**"Floating" fire
rings to provide
complete bore
seal**

**Forged alloy
steel pistons for
superior strength**

RELATED MEDIA



Hardware Kits



C15 Foldout



Crankshafts

3406

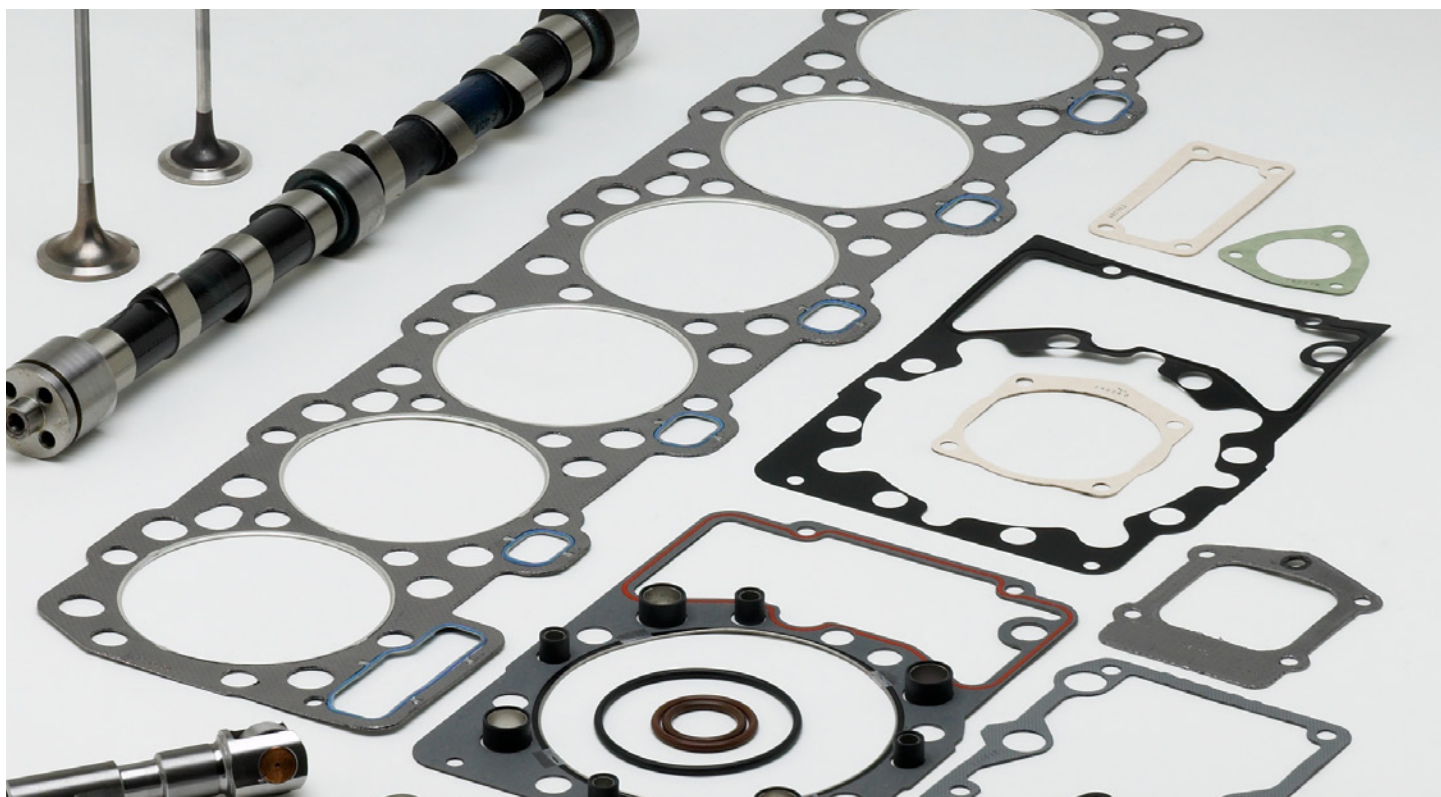
| ESN | APPL | PISTON | CYLINDER KIT | INFRAME KIT | OVERHAUL KIT | IF GASKET SET | OH GASKET SET |
|------------|-------|-----------|--------------|-----------------|-----------------|---------------|---------------|
| 92U5944-Up | Truck | M-6N4080 | M-CK6N4080P | Separate Parts | Separate Parts | MCB3406032 | MCB3406031 |
| | | M-6N4126 | M-CK6N4126P | Separate Parts | Separate Parts | | |
| | | M-7N3509 | N/A | Separate Parts | Separate Parts | | |
| | | M-7N3633 | M-CK7N3633P | Separate Parts | Separate Parts | | |
| | | M-3780509 | M-CK3780509P | MCIF3780509-032 | MCOH3780509-031 | | |

3406B

| ESN | APPL | PISTON | CYLINDER KIT | INFRAME KIT | OVERHAUL KIT | IF GASKET SET | OH GASKET SET |
|---------------|-------|-----------------|----------------------------|------------------|------------------|---------------|---------------|
| 2EK1-512 | Truck | M-7E8656 | M-CK7E8656P | MCIF7E8656-062 | MCOH7E8656-061 | MCB3406062 | MCB3406061 |
| 2EK513-1835 | | M-7E8656 | M-CK7E8656P | MCIF7E8656W-062 | MCOH7E8656W-061 | | |
| 2EK1-1930 | | M-1601131 | M-CK1601131P | MCIF1601130W-62 | MCOH1601130W-061 | | |
| 2EK1-512 | | M-7E8700 | M-CK7E8700P | MCIF7E8700-62 | MCOH7E8700-61 | | |
| 2EK513-4045 | | M-7E8700 | M-CK7E8700P | MCIF7E8700W-62 | MCOH7E8700W-061 | | |
| 3ZJ1-589 | | M-7E539 | M-CK7E539P | MCIF7E539W-062 | MCOH7E539W-061 | | |
| 3ZJ1-16181 | | M-7E8656 | M-CK7E8656P | MCIF7E8656W-062 | MCOH7E8656W-061 | | |
| 3ZJ1-2487 | | M-7E8700 | M-CK7E8700P | MCIF7E8700-062 | MCOH7E8700-61 | | |
| 3ZJ2488-16181 | | M-7E8700 | M-CK7E8700P | MCIF7E8700W-62 | MCOH7E8700W-061 | | |
| 4CK1-845 | Truck | M1601131 | M-CK1601131P | MCIF1601131W-062 | MCOH1601130W-061 | MCB3406062 | MCB3406061 |
| | | M-7E8656 | M-CK7E8656P | MCIF7E8656W-062 | MCOH7E8656W-061 | | |
| | | M-7E8700 | M-CK7E8700P | MCIF7E8700W-062 | MCOH7E8700W-061 | | |
| 4MG1-3599 | Truck | M-7C473 | Use M-3780509 in full sets | See Below | | See Below | |
| | | M-7C3496 | Use M-9Y3116 in full sets | | | | |
| | | M-9Y3116 | M-CK9Y3116P | MCIF9Y3116-052 | MCOH9Y3116-051 | MCB3406052 | MCB3406051 |
| | | | | MCIF9Y3116-062 | MCOH9Y3116-061 | MCB3406062 | MCB3406061 |
| | | M-3780509 | M-CK3780509P | MCIF3780509-052 | MCOH3780509-051 | MCB3406052 | MCB3406051 |
| | | | | MCIF3780509-062 | MCOH3780509-061 | MCB3406062 | MCB3406061 |
| 4MG3600-UP | Truck | M-7C3406 | Use M-3781441 in full sets | See Below | | See Below | |
| | | M-9Y9889 | | | | | |
| | | M-3781441 ** | M-CK3781441P | MCIF3781441-052 | MCOH3781441-051 | MCB3406052 | MCB3406051 |
| | | | | MCIF3781441-062 | MCOH3781441-061 | MCB3406062 | MCB3406061 |
| | | M-7C3496 | Use M-9Y3116P in full Sets | See Below | | | |
| | | M-9Y3116 | M-CK9Y3116P | MCIF9Y3116-052 | MCOH9Y3116-051 | MCB3406052 | MCB3406051 |
| | | | | MCIF9Y3116-062 | MCOH9Y3116-061 | MCB3406062 | MCB3406061 |
| | | M-7E539 | M-CK7E539P | MCIF7E539-052 | MCOH7E539-051 | MCB3406052 | MCB3406051 |
| | | | | MCIF7E539-062 | MCOH7E539-061 | MCB3406062 | MCB3406061 |
| | | M-7E8885 | Use M-9Y7212 in full sets | See Below | | | |
| | | M-9Y7212 | M-CK9Y7212P | MCIF9Y7212-052 | MCOH9Y7212-051 | MCB3406052 | MCB3406051 |
| | | | | MCIF9Y7212-062 | MCOH9Y7212-061 | MCB3406062 | MCB3406061 |

** Check Rod Bearing. Wide rod bearing use kit with "W" suffix

| ESN | APPL | PISTON | CYLINDER KIT | INFRAME KIT | OVERHAUL KIT | IF GASKET SET | OH GASKET SET |
|-----------|-------|-----------|----------------------------|-----------------|-----------------|---------------|---------------|
| 5KJ1-7799 | Truck | M-7C3406 | Use M-3781441 in Full Sets | See Below | | | |
| | | M-3781441 | CK3781441P | MCIF3781441-062 | MCOH3781441-061 | MCB3406062 | MCB3406061 |
| | | M-7E7885 | Use M-9Y7212 in Full Sets | See Below | | | |
| | | M-9Y7212 | M-CK9Y7212P | MCIF9Y7212-062 | MCOH9Y7212-061 | MCB3406062 | MCB3406061 |
| | | M-7E539 | M-CK7E539P | MCIF7E539-062 | MCOH7E539-061 | | |
| | | M-3780509 | M-CK3780509P | MCIF3780509-062 | MCOH3780509-061 | | |
| 7FB | Truck | M-7C0473 | Use M-3780509 in full sets | See Below | | | |
| | | M-3780509 | M-CK3780509P | MCIF3780509-052 | MCOH3780509-051 | MCB3406052 | MCB3406051 |
| | | | | MCIF3780509-062 | MCOH3780509-061 | MCB3406062 | MCB3406061 |
| | | M-7C3496 | Use M-9Y3116 in full sets | See Below | | | |
| | | M-7W3668 | | See Below | | | |
| | | M-9Y3116 | M-CK9Y3116P | MCIF9Y3116-052 | MCOH9Y3116-051 | MCB3406052 | MCB3406051 |
| | | | | MCIF9Y3116-062 | MCOH9Y3116-061 | MCB3406062 | MCB3406061 |
| 8TC | Truck | M-7C3406 | Use 3781441 in full sets | See Below | | | |
| | | M-9Y9889 | | See Below | | | |
| | | M-3781441 | M-CK3781441P | MCIF3781441-062 | MCOH3781441-061 | MCB3406062 | MCB3406061 |
| | | M-7E539 | M-CK7E539P | MCIF7E539-062 | MCOH7E539-061 | | |
| | | M-9Y7212 | M-CK9Y7212P | MCIF9Y7212-062 | MCOH9Y7212-061 | | |
| | | M-7C3496 | Use M-9Y3116 in full sets | See Below | | | |
| | | M-9Y3116 | M-CK9Y3116P | MCIF9Y3116-062 | MCOH9Y3116-061 | MCB3406062 | MCB3406061 |
| | | M-3780509 | M-CK3780509P | MCIF3780509-062 | MCOH3780509-061 | | |



3406C

| ESN | APPL | PISTON | CYLINDER KIT | INFRAME KIT | OVERHAUL KIT | IF GSKT SET | OH GSKT SET | |
|----------------|-------|-----------|--|--------------------|------------------|-------------|-------------|------------------|
| 3ZJ16182-60112 | Truck | M-7E292 | M-CK7E292P | MCIF7E292-112 | MCOH7E292-111 | MCB3406112 | MCB3406111 | |
| | | M-7E539 | M-CK7E539P | MCIF7E539-112 | MCOH7E539-111 | | | |
| | | M-7E8656 | M-CK7E8656P | MCIF7E8656-112 | MCOH7E8656-111 | | | |
| | | M-7E8700 | M-CK7E8700P | MCIF7E8700-112 | MCOH7E8700-111 | | | |
| | | M-1007403 | Not Available | See Separate Parts | | | | |
| 3ZJ1682-60112 | Truck | M-1010016 | M-CK1010016P | MCIF1010016-112 | MCOH1010016-111 | MCB3406272 | MCB3406271 | |
| 3ZJ60113-UP | | | | MCIF1010016-272 | MCOH1010016-271 | | | |
| 4CK486-up | Truck | M-7E292 | M-CK7E292P | MCIF7E292-112 | MCOH7E292-111 | MCB3406112 | MCB3406111 | |
| | | M-7E8656 | M-CK7E8656P | MCIF7E8656-112 | MCOH7E8656-111 | | | |
| | | M-7E8700 | M-CK7E8700P | MCIF7E8700-112 | MCOH7E8700-111 | | | |
| | | M-1601131 | M-CK1601131P | MCIF1601131-112 | MCOH1601131-111 | | | |
| 5KJ7800-Up | Truck | M-7E539 | M-CK7E539P | MCIF7E539W-112 | MCOH7E539W-111 | MCB3406112 | MCB3406111 | |
| | | M-9Y9889 | Use M-3781441 in full sets M-CK3781441P | | | | | |
| | | M-3781441 | | MCIF3781441W-112 | MCOH3781441W-111 | | | |
| | | M-1601131 | | M-CK1601131P | MCIF1601131W-112 | | | MCOH1601131W-111 |
| | | M-3780509 | | M-CK3780509P | MCIF3780509W-112 | | | MCOH3780509W-111 |
| 8PN | Truck | M-1175063 | M-CK1175063P | MCIF1175063-272 | MCOH1175063-271 | MCB3406272 | MCB3406271 | |
| | | 1381791 | Not available | See Separate Parts | | | | |

3406E

| ESN | APPL | PISTON/CROWN | CYLINDER KIT | INFRAME KIT | OVERHAUL KIT | IF GSKT SET | OH GSKT SET | |
|-----|-------|--------------|---------------------|--------------------|-----------------|-------------|-------------|--|
| 1LW | Truck | M-1807352 | CK1807352P | MCIF1807352 | MCOH1807352 | MCB3406472 | MCB3406471 | |
| 2WS | | | | MCIF1807352-492 | MCOH1807352-491 | MCB3406492 | MCB3406491 | |
| 5DS | Truck | 1398500 | Not available | See Separate Parts | | MCB3406472 | MCB3406471 | |
| | | | | | | MCB3406492 | MCB3406491 | |
| 5EK | Truck | M-1082716 | M-CK1082716P | MCIF1802716 | MCOH1802716 | MCB3406462 | MCB3406461 | |
| | | | | MCIF1802716-452 | MCOH180716-451 | MCB3406452 | MCB3406451 | |
| | | M-7C2888 | M-CK7C2888P | MCIF7C2888 | MCOH7C2888 | MCB3406462 | MCB3406461 | |
| | | | | MCIF7C2888-452 | MCOH7C2888-451 | MCB3406452 | MCB3406451 | |
| | | M-1352837 | M-CK1352837P | Refer to M-7C2888 | | | | |
| | | M-1362501 | N/A Use Re ring Kit | MCIF3406E | MCOH3406E | MCB3406462 | MCB3406461 | |
| | | M-1495566 | M-CK1495566P | MCIF1495566 | MCOH1495566 | MCB3406462 | MCB3406461 | |
| | | | | MCIF1495566-452 | MCOH1495566-451 | MCB3406452 | MCB3406451 | |
| 6TS | Truck | M-1352837 | Use M-7C2888 | | | | | |
| | | M-7C2888 | M-CK7C2888P | MCIF7C2888 | MCOH7C2888 | MCB3406462 | MCB3406461 | |
| | | | | MCIF7C2888-452 | MCOH7C2888-451 | MCB3406452 | MCB3406451 | |
| | | M-1365201 | N/A Use Re-ring Kit | MCIF3406E | MCOH3406E | MCB3406462 | MCB3406461 | |
| | | M-1495566 | M-CK1495566P | MCIF1495566 | MCOH1495566 | | | |
| | | | | MCIF1495566-452 | MCOH1495566-451 | MCB3406452 | MCB3406451 | |

| ESN | APPL | PISTON/CROWN | CYLINDER KIT | INFRAME KIT | OVERHAUL KIT | IF GSKT SET | OH GSKT SET |
|--|-------|--------------|----------------------------|---------------------|---------------------|-------------|-------------|
| 6NZ, 9NZ | Truck | M-1807351 | N/A Use Re ring Kit | MCIFC15E1 | MCOHC15E1 | MCBC15112 | MCBC15111 |
| | | M-1807352 | CK1807352P | MCIF1807352-C15 | MCOH1807352-C15 | | MCBC15612 |
| | | | | MCIF1807352-C15-452 | MCOH1807352-C15-451 | MCBC15612 | MCBC15611 |
| B5R | Truck | MCB3569946 | CK3569946P | MCIF3569946 | MCOH3569946 | MCBC15212 | MCBC15211 |
| | | | | MCIF3569946-412 | MCOH3569946-411 | MCBC15412 | MCBC15411 |
| | | M-3307762 | N/A Use Re ring Kit | MCIFC15E1 | MCOHC15E1 | MCBC15212 | MCBC15211 |
| BXS, MX, NXS 600HP and UP | Truck | M-3564787 | M-CK3564787P | MCIF3564787 | MCOH3564787 | MCBC15212 | MCBC15211 |
| | | | | MCIF3564787-412 | MCOH3564787-411 | MCBC15412 | MCBC15411 |
| | | MCB3569946 | M-CK3569946P | MCIF3569946 | MCOH3569946 | MCBC15212 | MCBC15211 |
| | | | | MCIF3569946-412 | MCOH3569946-411 | MCBC15412 | MCBC15411 |
| JEP1-228 | Truck | MCB3569946 | M-CK3569946P | MCIF3569946 | MCOH3569946 | MCBC15212 | MCBC15211 |
| | | | | MCIF3569946-412 | MCOH3569946-411 | MCBC15412 | MCBC15411 |
| JEP229-UP | | M-3307762 | N/A Use Re ring Kit | MCIFC15E1 | MCOHC15E1 | MCBC15212 | MCBC15211 |
| KRA | Truck | M-3564787 | M-CK3564787P | MCIF3564787 | MCOH3564787 | MCBC15212 | MCBC15211 |
| | | M-3259492 | Use M-3564787 in Full sets | MCIF3564787-412 | MCIF3564787-411 | MCBC15412 | MCBC15411 |
| MBN | Truck | M-2250115 | M-CK2250115P | MCIF2250115-C15 | MCOH2250115-C15 | MCBC15112 | MCBC15111 |
| | | | | MCIF2250115-C15-612 | MCOH2250115-C15-611 | MCBC15612 | MCBC15611 |
| RKS | Truck | M-3564787 | CK3564787P | MCIF3564787 | MCOH3564787 | MCBC15212 | MCBC15211 |
| | | | | MCIF3564787-412 | MCIF3564787-411 | MCBC15412 | MCBC15411 |
| SDP 600HP and UP | Truck | M-3564787 | CK3564787P | MCIF3564787SDP | MCOH3564787SDP | MCBC15322 | MCBC15321 |
| | | | | MCIF3564787SDP-312 | MCOH3564787SDP-311 | MCBC15312 | MCBC15311 |
| | | M-3259492 | Use M-3564787 in Full sets | | | | |
| | | M-3307762 | N/A Use Re ring Kit | MCIFC15E1 | MCOHC15E1 | MCBC15322 | MCBC15321 |
| | | | | MCIF3569946SDP | MCOH3569946SDP | | |
| | | MCB3569946 | M-CK3569946P | MCIF3569946SDP-312 | MCOH3569946SDP-311 | MCBC15312 | MCBC15311 |
| TRB | Truck | M-3307762 | N/A Use Re ring Kit | MCIFC15E1 | MCOHC15E1 | MCBC15212 | MCBC15211 |
| | | M-3564787 | CK3564787P | MCIF3564787 | MCOH3564787 | | |
| | | | | MCIF3564787-412 | MCOH3564787-411 | MCBC15412 | MCBC15411 |
| 600HP & Up | | M-3569946 | CK3569946P | MCIF3569946 | MCOH3569946 | MCBC15212 | MCBC15211 |
| | | | | MCIF3569946-412 | MCOH3569946-411 | MCBC15412 | MCBC15411 |



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CYLINDER COMPONENTS

| PART NUMBER | QUANTITY | | DESCRIPTION | COMMENT |
|-------------|----------|-----|-----------------------------------|-----------------------------------|
| | 3406E | C15 | | |
| M-1082716 | 6 | | Piston | 1 pc Aluminum < 410 HP |
| M-3259492 | | 6 | Piston | Use M-3564787 in full engine sets |
| M-3564787 | | 6 | Piston | 1pc Steel Piston |
| MCB3569946 | | 6 | Piston | 1pc Steel Piston |
| M-3889354 | | 6 | Piston | 1pc Steel Piston |
| M-3466615 | | 6 | Piston | |
| M-7C2888 | 6 | | Piston Crown | |
| M-1495566 | 6 | | Piston Crown | |
| M-1807352 | 6 | 6 | Piston Crown | |
| M-2250115 | | 6 | Piston Crown | |
| M-1300241 | 6 | | Piston Skirt | |
| M-1326663 | | 6 | Piston Skirt | |
| M-1W8922 | 6 | | Piston Ring Set | |
| M-RS3406E1 | 6 | | Piston Ring Set | |
| M-RS3406E2 | 6 | 6 | Piston Ring Set | 2pc pistons |
| M-RSC15E | | 6 | Piston Ring Set | 1pc steel piston |
| M-RSC15E1 | | 6 | Piston Ring Set | |
| M-RSC15E2 | | 6 | Piston Ring Set | |
| RS3569946 | | 6 | Piston Ring Set | |
| M-RSC15E6 | | 6 | Piston Ring Set | |
| M-1687246 | 6 | 6 | Piston Pin | |
| M-1807350 | | 6 | Piston Pin | 1pc steel piston |
| M-7E1177 | 12 | 12 | Piston Pin Retainer | |
| M-2502940 | | 12 | Piston Pin Retainer | |
| M-1979322 | 6 | 6 | Cylinder Liner | |
| M-1609874 | 6 | 6 | Cylinder Liner O-Ring Kit | |
| M-9Y3368 | AR | AR | Cylinder Liner Insert - Stainless | .0324" |
| M-2W3815 | AR | AR | Cylinder Liner Insert - Stainless | .0632" |
| M-9Y6054 | 6 | | Connecting Rod | Ref# 0R3780 |

AR = As Required

ENGINE BEARINGS

| PART NUMBER | QUANTITY | | DESCRIPTION | COMMENT |
|--------------|----------|-----|------------------------------|------------------------|
| | 3406E | C15 | | |
| M-9Y7735G | 6 | 6 | Connecting Rod Bearing STD | Grooved Wide Journal |
| M-2243246 | | 6 | Connecting Rod Bearing STD | 1pc steel pistons |
| M-9Y7735-010 | 6 | 6 | Connecting Rod Bearing .010" | |
| M-7E558 | 6 | 6 | Connecting Rod Bearing .025" | |
| M-2323235 | | 6 | Connecting Rod Bearing .025" | 1pc steel pistons |
| M-7E559 | 6 | 6 | Connecting Rod Bearing .050" | |
| M-2323236 | | 6 | Connecting Rod Bearing .050" | 1pc steel pistons |
| M-3178766 | 7 | 7 | Main Bearing STD | |
| M-4W5492-010 | 7 | 7 | Main Bearing .010" | |
| M-4W5698 | 7 | 7 | Main Bearing .025" | |
| M-4W5699 | 7 | 7 | Main Bearing .050" | |
| M-2531752 | 2 | 2 | Thrust Washer | |
| M-2436718 | 1 | 1 | Main Bearing Kit | Shells & Thrust Plates |
| M-6I2726 | 6 | | Connecting Rod Bushing | |
| M-2296259 | | 6 | Connecting Rod Bushing | 1pc steel pistons |
| M-2165582 | 7 | 7 | Camshaft Bearing STD | |
| M-2170752 | 7 | 7 | Camshaft Bearing .030" | |
| M-2613430 | 7 | 7 | Camshaft Bearing .050" | |
| M-2613429 | 7 | 7 | Camshaft Bearing .070" | |
| M-1317123 | 1 | 1 | Idler Gear Bushing | |

CRANKSHAFT SEALS & DAMPERS

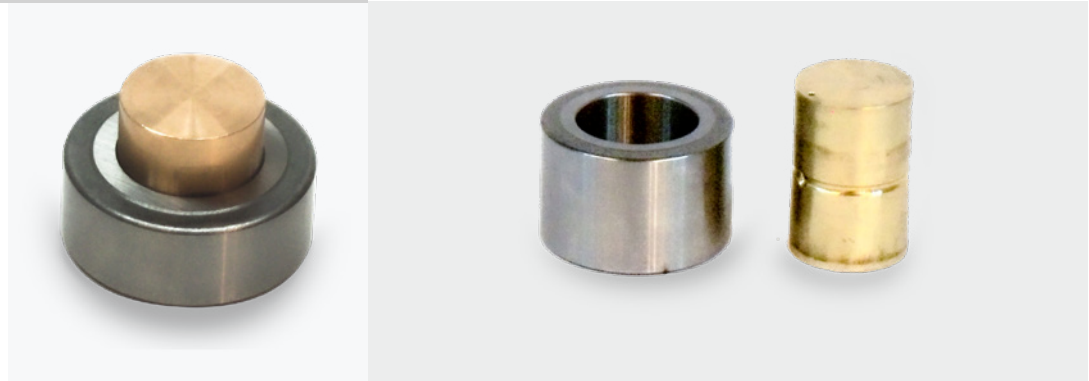
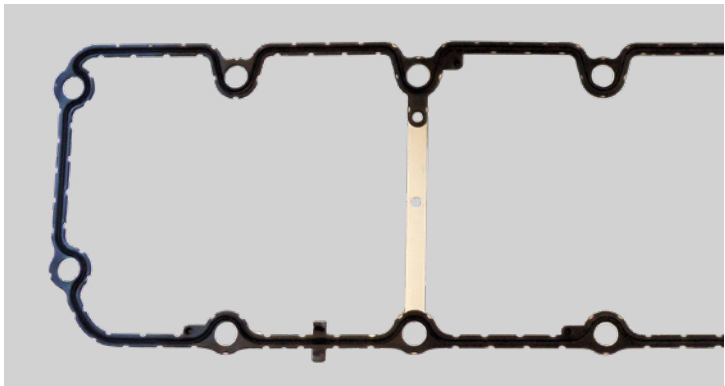
| PART NUMBER | QUANTITY | | DESCRIPTION | COMMENT |
|-------------|----------|-----|-------------------------|------------|
| | 3406E | C15 | | |
| M-6I1453 | 1 | | Crankshaft | w/o Gear |
| M-1601799 | | 1 | Crankshaft | w/o Gear |
| M-3370201 | | 1 | Crankshaft | |
| M-1425867 | 1 | 1 | Front Crankshaft Seal | |
| M-1425868 | 1 | 1 | Rear Crankshaft Seal | |
| M-1678126 | 1 | 1 | Vibration Damper | 13.5" O.D. |
| M-1682100 | AR | AR | Vibration Damper Spacer | |

AR = As Required



CYLINDER HEAD HARDWARE

| PART # | QUANTITY | | DESCRIPTION | COMMENT |
|--------------|----------|-----|-------------------------------|----------------------------|
| | 3406E | C15 | | |
| MCBC15HBK | 1 | 1 | Cylinder Head Bolt Kit | Bolts & Washers |
| M-7N1961 | 10 | 10 | Cylinder Head Bolt | 215.9mm (8.5") |
| M-1241855 | 16 | 16 | Cylinder Head Bolt | 194mm (7.6") |
| M-5H1504 | 26 | 26 | Cylinder Head Bolt Washer | Hard |
| M-3078322 | 3 | 3 | Rocker Shaft Assembly | |
| M-1670867 | 12 | 12 | Engine Brake Mounting Bolt | 5.75" |
| M-2349508 | | 3 | Engine Brake Actuator Bolt | 5.65" |
| M-MCB3049553 | | 9 | | 166.5mm |
| MCB7121 | 6 | 6 | Injector Rocker Arm Bushing | |
| MCB7122 | 12 | 12 | Valve Rocker Arm Bushing | |
| M-2038822PR | 12 | 12 | Pin and Roller Kit - Valve | |
| M-2075248PR | 6 | 6 | Pin and Roller Kit - Injector | |
| M-2818261 | 6 | 6 | Exhaust Sleeve | |
| M-2818261RK | 6 | 6 | Exhaust Sleeve Repair Kit | Includes Gasket and Rivets |
| M-6I4421 | 1 | 1 | Spacer Plate | |
| M-1389381 | 1 | 1 | Spacer Plate - Undersized | -.003" |
| M-5P5678-6 | 1 | 1 | Valve Cover Gasket | |
| M-5P5678-9 | 1 | 1 | Valve Cover Gasket | Engine Brake Equipped |
| M-3044925 | | 1 | Valve Cover Isolator | SDP & B5P |
| M-3B645 | 20 | | Plug - Cup | |
| M-3B623 | 17 | | Plug - Cup | |



CYLINDER HEAD COMPONENTS

| PART # | QUANTITY | | DESCRIPTION | COMMENT |
|--------------|----------|-----|----------------------------|---------------------|
| | 3406E | C15 | | |
| M-1537023 | 12 | 12 | Valve - Intake | |
| M-1753617 | 12 | 12 | Valve Seat - Intake | |
| M-2243983 | | 12 | Valve Seat - Intake | |
| M-1537024 | 12 | 12 | Valve - Exhaust | |
| M-1527582 | 12 | 12 | Valve Seat - Exhaust | |
| M-2265561 | | 12 | Valve Seat - Exhaust | |
| M-2A4429 | 48 | 48 | Valve Lock | |
| M-3487743 | 12 | 12 | Valve Bridge | |
| M-1227375 | 24 | 24 | Valve Guide | |
| M-1632478 | 24 | 24 | Valve Stem Seal | |
| M-2113122 | 24 | 24 | Valve Spring - Inner | |
| M-2479908 | 24 | 24 | Valve Spring - Outer | |
| M-6I0928 | 24 | 24 | Washer - Spring Seat | |
| M-1862001 | 24 | 24 | Rotocoil | |
| M-2274239 | 6 | 6 | Injector Sleeve | |
| M-3453399 | 6 | | Injector Sleeve - Oversize | |
| M-2287094 | 6 | | Nose O-ring | For oversize sleeve |
| M-2634920 | | 6 | Injector Sleeve | Acert |
| M-2274239ORK | 6 | 6 | Injector Sleeve O-Ring Kit | |
| M-3044925 | | 1 | Rocker Cover Isolator Seal | ESN = SDP, B5R |

CAMSHAFT

| PART NUMBER | REMAN NUMBER | APPLICATION | DESCRIPTION | COMMON ESNs FOR REFERENCE |
|-------------|--------------|-------------|-------------|---------------------------|
| M-3327309 | 0R7653 | 3406E | Camshaft | 5EK, 6TS |
| M-3323722 | 10R8193 | C15 | Camshaft | SDP |
| M-3327299 | 10R3323 | C15 | Camshaft | MSX |
| M-3327301 | 10R3292 | 3406E / C15 | Camshaft | 6N2, 9N2, 2WS, 1LW |



FUEL SYSTEM

| PART NUMBER | QUANTITY | | DESCRIPTION | COMMENT |
|-------------|----------|-----|-----------------------|--------------------|
| | 3406E | C15 | | |
| R-10R0956 | 6 | | Fuel Injector - Reman | Ref# 1189027 (NEW) |
| R-10R0956 | 6 | | Fuel Injector - Reman | Ref# 2113022 (NEW) |
| R-10R2780 | 6 | | Fuel Injector - Reman | Ref# 1189035 (NEW) |
| R-10R8501 | 6 | 6 | Fuel Injector - Reman | Ref# 2113023 (NEW) |
| R-10R0956 | 6 | 6 | Fuel Injector - Reman | Ref# 2113022 (NEW) |
| R-10R0955 | | 6 | Fuel Injector - Reman | Ref# 2113025 (NEW) |
| R-10R1000 | | 6 | Fuel Injector - Reman | Ref# 2295919 (NEW) |
| R-10R1273 | | 6 | Fuel Injector - Reman | Ref# 2321199 (NEW) |
| R-10R1273 | | 6 | Fuel Injector - Reman | Ref# 2490709 (NEW) |
| M-8S9191 | | 6 | Bolt - Injector Clamp | |
| M-2481394 | 6 | 6 | Injector O-Ring Kit | |
| M-1052508 | 1 | 1 | Priming Pump | Short |
| M-1375541 | 1 | 1 | Priming Pump - Hi Cap | Tall |
| M-3848611 | 1 | 1 | Transfer Pump | |

LUBRICATION SYSTEM

| PART NUMBER | QUANTITY | | DESCRIPTION | COMMENT |
|-------------|----------|-----|----------------------|-----------------------------|
| | 3406E | C15 | | |
| M-1330125 | 1 | 1 | Oil Cooler Core | |
| M-2237962 | | 1 | Oil Cooler Core | ACERT |
| M-1090077 | 3 | 3 | Seal O-Ring | |
| M-4N733 | 1 | | Oil Pump | Ref# 0R9448 (verify w/ ESN) |
| M-6N1931 | 1 | | Relief Plunger | |
| M-2S2760 | 1 | | Plunger Spring | |
| M-1614113 | 1 | 1 | Oil Pump | Ref# 0R9449 |
| M-6N1931 | 1 | 1 | Relief Plunger | |
| M-2S2760 | 1 | 1 | Plunger Spring | |
| MCB3400RK | 1 | | Oil Pump Rebuild Kit | For use on 4N733 Pump |
| M-9L8439 | 1 | | Oil Filler Cap | |
| M-5L2952 | | 1 | Oil Filler Cap | |
| M-4N1151 | AR | AR | Oil Pan Gasket | Puzzle Style |
| M-4N1151-6 | AR | AR | Oil Pan Gasket | One Piece Style |
| M-1685248 | | 1 | Oil Pan Isolator | |
| M-0S1619 | | 8 | Bolt (3/8-16 X 3") | Sound Protection Panel |
| M-2401614 | | 24 | Isolator Sleeve | Standard Oil Pan |

AR = As Required

COOLING SYSTEM

| PART NUMBER | QUANTITY | | DESCRIPTION | COMMENT |
|-------------|----------|-----|--------------------------|-----------------------|
| | 3406E | C15 | | |
| M-4W4011 | 1 | 1 | Regulator - 170° | |
| M-2485513 | 1 | 1 | Regulator - 180° | |
| M-2477133 | 1 | 1 | Regulator - 190° | |
| M-3S9643 | 1 | 1 | Regulator Seal | |
| M-3520212 | 1 | | Water Pump | Ref# 10R0483 |
| M-3520211 | | 1 | Water Pump | Ref# 10R0484 |
| M-3362213 | | 1 | Water Pump | Ref# 10R8660 |
| M-7C9222 | 1 | 1 | Water Pump Adapter Plate | Aluminum - Non-ACERT |
| M-4P2383 | 1 | 1 | Water Pump Adapter Plate | Cast Iron - Non-ACERT |
| M-1293068 | 1 | | Water Pump Rebuild Kit** | |
| M-1293069 | 1 | | Water Pump Rebuild Kit** | |
| M-2672839 | | 1 | Water Pump Rebuild Kit** | ACERT |
| M-3777037 | | 1 | Water Pump Rebuild Kit** | |
| M-8H9789 | 2 | 2 | Fan Hub Bearing | |
| M-5S2106 | 1 | 1 | Fan Hub Seal | |
| M-7F2122 | 1 | 1 | Fan Hub O-Ring Seal | |
| M-8T0644 | | 1 | Bolt-Belt Tensioner | General Usage |

**Note: Match pump via serial # & arrangement

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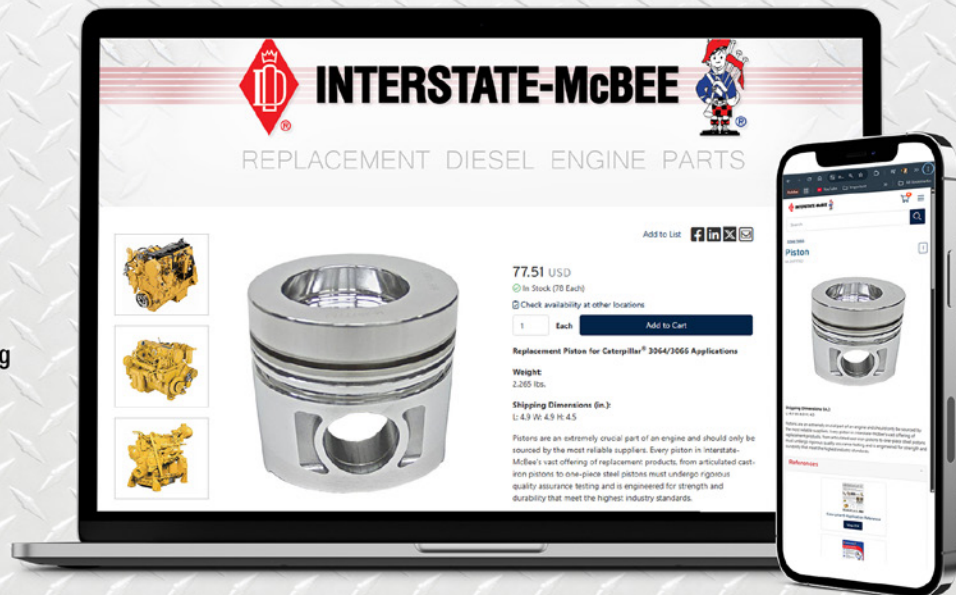
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EXHAUST & TURBOCHARGER

| PART NUMBER | QUANTITY | | DESCRIPTION | COMMENT |
|-------------|----------|-----|-------------------------------|--|
| | 3406E | C15 | | |
| MCB3406EHKT | 1 | 1 | Exhaust Hardware Kit | Complete with Port Sleeves (Non-ACERT) |
| MCBC15HKT | | 1 | Exhaust Hardware Kit | Complete with Port Sleeves (ACERT) |
| MCB3406ESK | 1 | | Exhaust Stud Kit | Studs & Nuts (Non-ACERT) |
| MCBC15ESK | | 1 | Exhaust Stud Kit | Studs, Spacers & Nuts (Non-ACERT) |
| M-1061793 | 1 | 1 | Exhaust Manifold Stud - 2.36" | |
| M-1061792 | 11 | 11 | Exhaust Manifold Stud - 4" | |
| M-1064159 | 1 | 1 | Spacer - .532" | |
| M-1083612 | 11 | 11 | Spacer - 2" | |
| M-2N2766 | 12 | 12 | Locknut | |
| M-1687800 | 12 | | Locknut | |
| M-5M2894 | 12 | 12 | Hard Washer | |
| M-2818261 | 6 | 6 | Exhaust Sleeve | |
| M-2818261RK | 6 | 6 | Exhaust Sleeve Repair Kit | Includes Gasket and Rivets |
| M-1965951 | | 1 | Turbocharger Assembly | 6NZ & 9NZ non-ACERT |
| M-2410825 | | 1 | Turbocharger Installation Set | |
| M-2321811 | | 1 | Turbocharger Assembly | ACERT low pressure |
| M-2514820 | | 1 | Turbocharger Assembly | ACERT high pressure |
| M-2903986 | | 1 | Turbocharger Installation Set | |
| M-2N2765 | 4 | 4 | Turbo Mounting Bolt | |
| M-2N2766 | 4 | 4 | Turbo Mounting Locknut | |
| M-3139550 | | 4 | Turbo Mounting Stud | ACERT |
| M-2N9288 | | 4 | Turbo Mounting Stud | ACERT |
| M-1687800 | | 8 | Turbo Mounting Locknut | ACERT |

ROCKER ARM ASSEMBLY

| PART NUMBER | DESCRIPTION | TYPE | APPLICATIONS |
|-------------|---------------------|---------------|--------------|
| M-4373861 | Rocker Arm Assembly | Injector | C15, C18 |
| M-4373863 | Rocker Arm Assembly | Valve-Intake | C15, C18 |
| M-4373869 | Rocker Arm Assembly | Valve-Exhaust | C15, C18 |

SENSORS

| PART NUMBER | QUANTITY | | DESCRIPTION | COMMENT |
|-------------|----------|-----|-----------------------|---------|
| | 3406E | C15 | | |
| M-1946722 | AR | AR | Sensor - Pressure* | |
| M-1946724 | AR | AR | Sensor - Pressure* | |
| M-1946725 | AR | AR | Sensor - Pressure* | |
| M-2244536 | AR | AR | Sensor - Pressure* | |
| M-2842728 | AR | AR | Sensor - Pressure* | |
| M-2566453 | AR | AR | Sensor - Temperature* | |
| M-2644297 | AR | AR | Sensor - Temperature* | |

*Refers to ESN usage

AR = As Required

GASKET SETS - McBEE CUSTOM

| PART NUMBER | QUANTITY | DESCRIPTION | COMMENT |
|-------------|----------|-----------------------|--|
| MCB3406031 | 1 | Overhaul Gasket Set | 92U5944-Up |
| MCB3406032 | 1 | In-Chassis Gasket Set | |
| MCB3406033 | 1 | Cylinder Head Set | |
| MCB3406051 | 1 | Overhaul Gasket Set | 3406B JWAC |
| MCB3406052 | 1 | In-Chassis Gasket Set | |
| MCB3406053 | 1 | Cylinder Head Set | |
| MCB3406061 | 1 | Overhaul Gasket Set | 3406B ATAAC |
| MCB3406062 | 1 | In-Chassis Gasket Set | |
| MCB3406063 | 1 | Cylinder Head Set | |
| MCB3406111 | 1 | Overhaul Gasket Set | 3406C 19-bolt Flywheel Housing |
| MCB3406112 | 1 | In-Chassis Gasket Set | |
| MCB3406113 | 1 | Cylinder Head Set | |
| MCB3406271 | 1 | Overhaul Gasket Set | 3406C round Exhaust Ports 24-bolt Flywheel Housing |
| MCB3406272 | 1 | In-Chassis Gasket Set | |
| MCB3406273 | 1 | Cylinder Head Set | |

Note: Injector O-Rings are included in all McBee custom gasket sets

CUSTOM GASKET SETS FOR CAT APPLICATIONS

PART NUMBERS—SIMPLIFIED FOR EASY ORDERING

The base part number for all three custom McBee kits in each series is the same. The last digit tells you the type of kit.

- **Overhaul** sets will always end in a “1”.
- **Inframe** sets end in “2”.
- **Head Gasket** sets end in “3”.

This makes it easy to identify which set your customer needs based on the sub-kits required.

HOW COMPETITORS DO IT

- Modular style gasket sets sold separately
- Lots of numbers to look up
- Shipped in multiple boxes



HOW INTERSTATE-McBEE DOES IT

- One box holds everything
- Single part number
- All sub-kits & components neatly listed on inside lid



MCB prefix denotes this is a custom Interstate-McBee item.

Three digit code is created to note McBee custom gasket sets.

MCB**C15****092**

2 to 4 digits in the middle represent the engine application.

Last digit tells you what type of gasket set. In this case a “2” represents an inframe gasket set.

- Only one part number needed to cover multiple sub-kits for ease of lookup, purchase & inventory.
- Saves shelf space combining sub kits into one box.
- Less packages shipped to minimize cost & delays.
- Assembly process simplified for mechanics with all gaskets in one box and sub-kits clearly marked.

GASKET SETS - MODULAR

| PART # | QUANTITY | DESCRIPTION | COMMENT |
|-----------|----------|-------------------------------|-----------|
| M-2088350 | 1 | Air Compressor Set | 3406E |
| M-1429672 | 1 | Central & Lower Set | |
| M-3766577 | 1 | Front Structure Set | |
| M-2481394 | 6 | Fuel Injector Set | |
| M-1252107 | 1 | Fuel System Set | |
| M-1415787 | 1 | Oil Cooler Set | |
| M-2323679 | 1 | Rear Structure Set | |
| M-2410825 | 1 | Turbocharger Installation Set | |
| M-1282922 | 1 | Water Pump Installation Set | |
| M-2088350 | 1 | Air Compressor Set | |
| M-2572756 | 1 | Central & Lower Set | C15 |
| M-2341904 | 1 | Front Structure Set | |
| M-2481394 | 6 | Fuel Injector Set | |
| M-2250773 | 1 | Fuel System Set | |
| M-1891814 | 1 | Oil Cooler Set | |
| M-2341877 | 1 | Rear Structure Set | |
| M-2410825 | 1 | Turbocharger Installation Set | |
| M-2138621 | 1 | Water Pump Installation Set | |
| M-2800481 | 1 | Air Compressor Set | C15 ACERT |
| M-2969949 | 1 | Central & Lower Set | |
| M-3483681 | 1 | Front Structure Set | |
| M-2481394 | 6 | Fuel Injector Set | |
| M-2969932 | 1 | Fuel System Set | |
| M-3483682 | 1 | Oil Cooler Set | |
| M-2853200 | 1 | Rear Structure Set | |
| M-2903986 | 1 | Turbocharger Installation Set | |
| M-2997436 | 1 | Water Pump Installation Set | |

GASKET SETS - ON-HIGHWAY

Following kits contain M-3590908 Head Gaskets

| PART NUMBER | DESCRIPTION | ESN | COMMENTS |
|-------------|--------------------------|--------------------|--|
| MCB3406461 | Overhaul Gasket Set | 5EK, 6TS | Contains M-3590908 Head Gasket |
| MCB3406462 | Inframe Gasket Set | | |
| MCB3406463 | Cylinder Head Gasket Set | | |
| MCB3406471 | Overhaul Gasket Set | 1LW, 1MM, 2WS, 5DS | With 3-Molded Valve Cover Gaskets Contains M-3590908 Head Gasket |
| MCB3406472 | Inframe Gasket Set | | |
| MCB3406473 | Cylinder Head Gasket Set | | |
| MCBC15091 | Overhaul Gasket Set | 6NZ, 9NZ, MBN | ALL Contain M-3590908 Head Gasket |
| MCBC15092 | Inframe Gasket Set | | MCBC15092 Does NOT Contain M-1685248 Oil Pan Isolator Seal |
| MCBC15112 | Inframe Gasket Set | | MCBC15112 contains M-1685248 Isolator Seal |
| MCBC15093 | Cylinder Head Gasket Set | | |
| MCBC15321 | Overhaul Gasket Set | SDP | All Contain M-3590908 Head Gasket |
| MCBC15322 | Inframe Gasket Set | | Only Contains M-3044925 Rocker Cover Isolation Seal |
| MCBC15323 | Head Gasket Set | | |
| MCBC15211 | Overhaul Gasket Set | BXS, MXS, NXS | Contains Pan gasket and Isolator |
| MCBC15212 | Inframe Gasket Set | | Contains Oil Pan Isolator M-1685248 |
| MCBC15222 | Inframe Gasket Set | | Does NOT Contain Oil Pan Isolator |
| MCBC15213 | Cylinder Head Gasket Set | | |

GASKET SETS - ON-HIGHWAY

Following kits contain M-5719901 Head Gaskets

| PART NUMBER | DESCRIPTION | ESN | COMMENTS |
|-------------|--------------------------|--------------------|--|
| MCB3406451 | Overhaul Gasket Set | 5EK, 6TS | Contains M-5719901 Head Gasket |
| MCB3406452 | Inframe Gasket Set | | |
| MCB3406453 | Cylinder Head Gasket Set | | |
| MCB3406491 | Overhaul Gasket Set | 1LW, 1MM, 2WS, 5DS | With 3-Molded Valve Cover Gaskets Contains M-5719901 Head Gasket |
| MCB3406492 | Inframe Gasket Set | | |
| MCB3406493 | Cylinder Head Gasket Set | | |
| MCBC15611 | Overhaul Gasket Set | 6NZ, 9NZ, MBN | ALL Contain M-5719901 Head Gasket |
| MCBC15612 | Inframe Gasket Set | | MCBC15611/12 Contain M-1685248 Isolator Seal |
| MCBC15693 | Cylinder Head Gasket Set | | |
| MCBC15311 | Overhaul Gasket Set | SDP | All contain M-5719901 Head Gasket |
| MCBC15312 | Inframe Gasket Set | | Only Contains M-3044925 Rocker Cover Isolation Seal |
| MCBC15313 | Head Gasket Set | | |
| MCBC15411 | Overhaul Gasket Set | BXS, MXS, NXS | All contain M-5719901 Head Gasket |
| MCBC15412 | Inframe Gasket Set | | Contains Oil Pan Isolator M-1685248 |
| MCBC15422 | Inframe Gasket Set | | Does not contain M-1685248 Pan Isolator seal |
| MCBC15413 | Cylinder Head Gasket Set | | |



INTERSTATE-McBEE



INTERSTATE-McBEE WARRANTY

DIESEL ENGINE PARTS (OTHER THAN FUEL INJECTION)

New engine parts furnished by Interstate-McBee are warranted to be free from defects in material and workmanship under normal use and service for a period of twenty-four (24) months from the date of installation, with the exception of new cylinder heads which are warranted for twelve (12) months from the date of installation, without mileage or hour limitation, but total warranty period shall not exceed thirty-six (36) months from date of Interstate-McBee invoice. This warranty applies to all owners in the chain of distribution, i.e. distributor, dealer, original owner, until the end of the respective periods of coverage and shall not apply to subsequent owners. NOTE: This warranty does not cover fuel injectors or fuel injection parts – for fuel injection, refer to Interstate-McBee's Fuel Injection Warranty below.

NATURAL GAS OR METHANE ENGINE AND PRIME POWER GENERATION

New engine parts furnished by Interstate-McBee are warranted to be free from defects in material and workmanship under normal use and service, for a period of twenty four (24) months from the date of installation with the exception of valve train components which are warranted for twelve (12) months from the date of installation, but total warranty period shall not exceed thirty-six (36) months (24 months for valve train components) from date of Interstate-McBee invoice. This warranty applies to all owners in the chain of distribution, i.e. distributor, dealer, original owner, until the end of the respective periods of coverage and shall not apply to subsequent owners.

INTERSTATE-McBEE RESPONSIBILITIES

Provided the claim procedures are followed as per instructions at www.interstate-mcbee and Interstate-McBee determines, after inspection of the suspect part that a warranty failure has occurred, the following is the maximum responsibility of Interstate- McBee. All warrantable claims will be settled by credit to the account of the originally invoiced distributor. No cash refunds will be allowed. All returned parts become the property of Interstate-McBee. This warranty is limited to restoring the engine to its functional condition existing immediately prior to the failure including progressive damage caused by the failed part to the engine.

Parts

- Any parts needed to repair the damage, other than parts supplied by Interstate-McBee, must be agreed to and approved by Interstate-McBee in advance.
- Interstate-McBee will choose to one of the following:
 1. Provide parts needed to repair damages, directly resulting from any warranty failure defined above including progressive damage to the engine caused by or direct result of the failed part maintenance items
 2. Reimburse cost for parts needed to repair warrantable failure

Maintenance Items

- Interstate-McBee will reimburse our invoiced customer for fluids and filters that are not reusable, needed to repair damages directly resulting from part failure, but must be agreed to in advance by Interstate-McBee

Labor

- Interstate-McBee will reimburse for labor not to exceed published flat rates at Interstate-McBee's hourly rate of \$50. No overtime or holiday rates will be allowed



OWNER'S RESPONSIBILITIES

Owner is responsible to properly operate and maintain the engine as specified in the APPLICABLE O.E.M. OPERATION AND MAINTENANCE MANUALS. Owner must give notice to the Interstate-McBee customer from whom the parts were purchased within (30) days of any suspected failure and before expiration of applicable warranty to be considered warrantable.

Owner will provide alleged defective and associated parts for examination by Interstate-McBee and, if requested, return same freight pre-paid to Cleveland, Ohio. Additionally, a complete Electronic Control Module (ECM) report must accompany the claim. Interstate-McBee further reserves the right to examine any engine subject to a claim under this warranty.

Approved warranty work is to be performed by an authorized Interstate-McBee Distributor or Dealer or other Interstate- McBee approved facility. Copies of all work orders and invoices for repairs to the engine must accompany the claim. Owner is responsible for all costs, including, but not limited to, repairs made to items other than the engine in which the parts are installed, "downtime" expenses and all business costs and losses resulting from a warrantable failure.

Questions or appeals regarding the outcome of the warranty review must be submitted in writing within 10 days of receiving claim disposition. After claim disposition has been communicated to the customer, parts will be held for 15 days and then scrapped. If customer would like the parts returned, this must be indicated on the warranty claim form submitted with the original claim including shipping instructions. Freight on returned parts will be shipped freight collect.

ALL CLAIMS MUST BE FILED ONLINE AT WWW.INTERSTATE-MCBEE.COM

WARRANTY LIMITATIONS

Interstate-McBee is not responsible for failure resulting from owner or operator abuse or neglect, such as, but not limited to: operation without adequate coolant, fuel or lubricants; over fueling; over speeding; lack of maintenance of lubricating, coolant or air intake systems; improper storage, starting, warm-up, run-in or shut down practices. Interstate-McBee is not responsible for failures resulting from improper repair or installation, for parts that have been altered or for parts not approved by Interstate- McBee. This warranty does not apply to parts furnished in a previous warranty or on a no charge basis. Interstate-McBee does not warrant parts supplied by Interstate-McBee which bear the name and trademark of another company. These parts are warranted by their manufacturers and not Interstate-McBee.

In no event shall this warranty extend beyond (36) months from the date of Interstate-McBee invoice. THERE ARE NO WARRANTIES EXPRESSED, IMPLIED OR STATUTORY, FOR THE PARTS NAMED HEREIN BEFORE, MADE BY INTERSTATE-MCBEE OTHER THAN SET FORTH HEREIN. We neither assume nor authorize any other persons to assume for us any other liability in connection with our products. INTERSTATE-MCBEE SHALL NOT BE RESPONSIBLE FOR ANY OTHER CONSEQUENTIAL DAMAGES OR CONTINGENT LIABILITIES. Further, in no event shall Interstate-McBee bear any responsibility for any damages, which exceed the then available aggregate coverage provided under the terms and conditions of its product liability policy.

Interstate-McBee will not pay for any expense related to obtaining 3rd party parts, including OEM parts unless authorized in writing by Interstate-McBee.

This warranty shall be interpreted, governed and enforced in accordance with the laws of the State of Ohio, U.S.A. (For products not covered herein, see Interstate-McBee's Fuel Injection Warranty below.) Any actions or proceedings relating to this warranty must be filed or commenced within three (3) months of the alleged breach. If any of these warranty provisions or portions thereof prohibited by law or by any court of competent jurisdiction, in any locality, its invalidity or unenforceability shall not affect the validity or enforceability of any other warranty provisions or portions thereof.

INTERSTATE-MCBEE FUEL INJECTION WARRANTY

The fuel injector assemblies and fuel injection parts furnished by Interstate-McBee are warranted to be free from defects in material and workmanship under normal use and service for a period of twelve (12) months (unlimited miles and hours), from date of first installation in an engine. This warranty applies to all owners in the chain of distribution, i.e. distributor, dealer, original owner, until the end of the respective periods of coverage and shall not apply to subsequent owners.

This warranty does not apply to parts provided by Interstate-McBee on a no-charge basis. In no event shall this warranty extend beyond twenty four (24) months from date of sale or manufacture.

INTERSTATE-MCBEE RESPONSIBILITIES

The obligation of Interstate-McBee under this warranty, statutory or otherwise, is limited to the replacement or repair of Interstate- McBee parts which our inspection discloses to our satisfaction to have been defective. Repair will be performed at our factory in Cleveland, OH or other Interstate-McBee approved facility. Proof of purchase is required. No other costs or claims are covered under this warranty for fuel injector assemblies or fuel injection parts including progressive damage and labor.

OWNER'S RESPONSIBILITIES

Owner is responsible for the operation and maintenance of the engine as specified in the APPLICABLE O.E.M. OPERATION AND MAINTENANCE MANUALS. Owner must give notice within (30) days of any suspected failure and before expiration of applicable warranty to be considered warrantable. Owner will provide alleged defective and associated parts for examination by Interstate-McBee and, if requested, return same F.O.B. Cleveland, Ohio. Interstate-McBee further reserves the right to examine any engine subject to a claim under this warranty. Owner is responsible for all costs, including, but not limited to, repairs made to items other than the engine in which the parts are installed, "downtime" expenses and all business costs and losses resulting from a warrantable failure. Copies of all work orders and invoices for repairs to the engine must accompany the claim. Additionally, on electronically controlled engines a complete Electronic Control Module (ECM) report (Extraction, Download) must also accompany the claim.

ALL CLAIMS MUST BE FILED ONLINE AT WWW.INTERSTATE-MCBEE.COM

WARRANTY LIMITATIONS

Interstate-McBee is not responsible for failure resulting from owner or operator abuse or neglect such as, but not limited to: operation without adequate coolant, fuel or lubricants; over-speeding; lack of maintenance of lubricating system, coolant or air intake systems; improper storage, or starting. Interstate-McBee is not responsible for failures resulting from improper repair or installation, for parts that have been altered or for parts not approved by Interstate-McBee.

This warranty does not apply to parts furnished on a previous warranty or on a no charge basis. Interstate-McBee does not warrant parts supplied by Interstate-McBee which bear the name and or trademark of another company. These parts are warranted by their manufacturers and not by Interstate-McBee.

In no event shall this warranty extend beyond (twenty four (24) months from the date of sale. THERE ARE NO WARRANTIES EXPRESSED, IMPLIED OR STATUTORY, FOR THE PARTS NAMED HEREIN BEFORE, MADE BY INTERSTATE-MCBEE OTHER THAN SET FORTH HEREIN. We neither assume nor authorize any other persons to assume for us any other liability in connection with our products. INTERSTATE-MCBEE SHALL NOT BE RESPONSIBLE FOR ANY OTHER CONSEQUENTIAL DAMAGES OR CONTINGENT LIABILITIES. Further, in no event shall Intestate-McBee bear any responsibility for any damages, which exceed the then available aggregate coverage provided under the terms and conditions of its product liability policy.

This warranty shall be interpreted, governed and enforced in accordance with the laws of the State of Ohio, U.S.A. (For products not covered herein (i.e. non-fuel injection engine parts), see Interstate-McBee's Engine parts warranty above). Any actions or proceedings relating to this warranty must be filed or commenced within three (3) months of the alleged breach. If any of these warranty provisions or portions thereof is prohibited by law or by any court of competent jurisdiction, in any locality, its invalidity or unenforceability shall not affect the validity or the enforceability of any other warranty provisions or portions thereof.

The warranty is subject to change. Please visit www.interstate-mcbee.com for the latest version.



INTERSTATE-MCBEE.COM



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