



IPDStyle 1-2-3™ GASKET SETS

January 2020

The Standard for Quality, Innovation, Service and Support Since 1955

IPD HEAVY-DUTY GASKETS

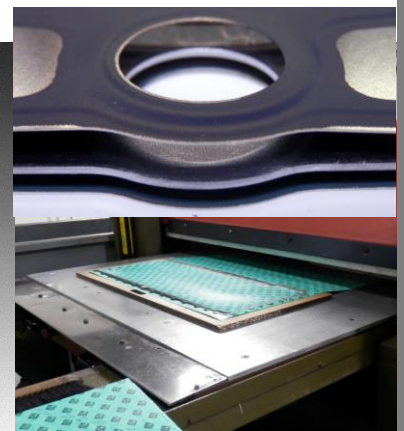


IPD QUALITY, INNOVATION, SERVICE & SUPPORT

- Heavy-duty, performance tested materials
- Engineered to meet or exceed OEM performance levels
- Latest technology for enhanced reliability, longevity, performance
 - Specialty composite & multi-layer steel head gaskets
- Gaskets engineered for use with other IPD components
- Premium quality protective packaging
- Proven durability in the harshest environments since 1955
- Globally distributed customer support resources
- Premier technical support

IPD VALUE

- OEM style & comprehensive **IPDStyle 1-2-3[®]** gasket sets for **In-Frame, Out-of-Frame, & Cylinder Head** overhauls
- IPD's innovative **1-2-3 Sets** save time
 - Bagged & marked sub-assemblies for each engine system
 - Complete listing provided of all set contents (by part number)
 - Replaces multiple OEM style sets (often 9 or more)
- Wide range of applications
- Industry leading limited warranty
 - **2 years (unlimited miles/hours)** for most on-highway diesel and spark-ignited gas applications (see policy for exclusions)
 - 1 year/3,600 hours for most off-highway diesel applications



IPDStyle 1-2-3 Complete Gasket Set Catalog

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE |
|--|-------|---|---|--------------------------|----------------------|--------------------------|
| ON HIGHWAY TRUCK ENGINES | | | | | | |
| 1693 | | 65B1-781 | Non Spacer Plated * Contains 5S3903 Silicone Lip Rear Crankshaft Seal Only | 693011* | 693012 | 693013 |
| 1693 | | 65B782-Up | Spacer Plated * Contains 5S3903 Silicone Lip Rear Crankshaft Seal Only | 693021* | 693022 | 693023 |
| 1140 1145 1150 1160 | | 36B1-Up 97B1-Up 96B1-Up 95B1-Up | All Engines <u>Single Head Replacement</u> | | 208012 | 208013 208014 |
| 3116 | | 2BK1-Up 8WL1-Up 7JL1-Up 7SF1-Up 9LN1-Up 2FR1-Up 9CJ1-Up 9Gk1-Up 9YN1-Up | ATAAC (Air to Air Aftercooled) MUI And EUI Engines Only | 116031 | 116012 | 116013 |
| 3116 | | 5EN1-Up | ATAAC (Air to Air Aftercooled) MUI And EUI Engines Only | 116031 | 116012 | 116023 |
| 3116 | | 2FR1-Up 9CJ1-Up 9GK1-Up 9YN 1-Up | ATAAC (Air to Air Aftercooled) | 116031 | 116012 | 116013 |
| 3208NA | | 32Y1-Up 40S1-Up 51Z1-Up | Non Turbocharged Engine <u>Single Head Replacement</u> | 208011 | 208012 | 208013 208014 |
| 3208T | | 2Z1-Up | Turbocharged Engine <u>Single Head Replacement</u> | 208031 | 208032 | 208033 208034 |
| 3126 | Truck | 1WM1-26507 4ES1-Up | 2 valves per cylinder | 3126011 | 3126012 | 3126013 |
| 3126 | Truck | 6PZ1-Up 8SC1-Up 9SZ1-Up CKM1-Up 7AS1-Up | 3 valves per cylinder 1662905 Oil Pan Isolation Seal Not Included. | 3126021 | 3126022 | 3126023 |
| 3126 | Truck | 8YL1-Up | | 3126061 | 3126022 | 3126023 |
| 3126E | Truck | HEP1-Up HEP1-Up | With oil pan gasket & dry rear seal With oil pan isolation seal & dry rear seal | 3126091 3126111 | 3126092 3126112 | 3126113 |
| 3306 | | | Non Spacer Plated Engine * Order Aftercooler Gasket Kit Separately if Required | 306051 | 306052* | 306053* |
| 3306 | | 76R273-Up | P.C. Turbocharged * Order Aftercooler Gasket Kit Separately if Required | 306081 | 306082* | 306083* |
| 3306B | | 63Z1-Up 5KD1-Up | Directed Injected Turbocharged JWAC * Order Aftercooler Gasket Kit Separately if Required | 306091 | 306092* | 306093* |
| 3306B | | 63Z1-Up 5KD1-Up | Directed Injected Turbocharged ATAAC | 306441 | 306442 | 306443 |
| 3306C | | 7RJ1-Up 9TL1-Up | D.I. Turbocharged | 306441 | 306442 | 306443 |

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE |
|--|--|--|--------------------------|----------------------|---------------------|
| 3406A | 92U1-5943 | W / Lube Thru Cyl Head Studs | 406041 | 406042 | 406043 |
| 3406A | 92U5944-Up | | 406031 | 406032 | 406033 |
| 3406B | 7FB1-Up 4MG1-Up | JWAC (Jacket Water Aftercooled) | 406051 | 406052 | 406053 |
| 3406B | 7FB1-Up 4MG1-Up 5KJ1-7799 8TC1-Up 3ZJ1-16181 | ATAAC (Air to Air Aftercooled) | 406061 | 406062 | 406063 |
| 3406C | 3ZJ16182-60112 4CK846-Up 5KJ7800-Up | ATAAC (Air to Air Aftercooled) W/19 Bolt Flywheel Housing | 406111 | 406112 | 406113 |
| 3406C | 3ZJ60113 -Up | ATAAC (Air to Air Aftercooled) Non-Brake Saver W/Round Exhaust Ports | 406271 | 406272 | 406273 |
| 3406C | 8PN1-Up | ATAAC (Air to Air Aftercooled) Non-Brake Saver W/Round Exhaust Ports | 406271 | 406272 | 406273 |
| 3406E | 5EK1-Up 6TS1-Up 1LW1-Up 5DS1-Up 2WS1-Up | Includes Fuel Injector Seal Exhaust Manifold Gaskets Not Included | 406461 | 406462 | 406463 |
| 3406E | 1MM1-Up | Includes Fuel Injector Seal Exhaust Manifold Gaskets Not Included | | 406472NLS | 406473 |
| C7 | WAX 1-Up SAP 1-Up KAL 1-Up | With Oil Pan Isolation Seal (1662905) | C70001 | C70002 | C70003 |
| C7 | WAX 1-Up SAP 1-Up KAL 1-Up | With Oil Pan Gasket (2613816) | C70011 | C70012 | C70003 |
| C7 | C7S 1-Up | With Oil Pan Isolation Seal (1662905) | C70021 | C70022 | C70023 |
| C7 | C7S 1-Up | With Oil Pan Gasket (2613816) | C70031 | C70032 | C70023 |
| C9 | 9DG1-Up | | C90001NLS | C90002NLS | C90003 |
| C10 | MBJ 1-Up | Straight Style Head Gasket | C10011STRNLS | C10012STRNLS | C10013STR |
| C10 | 2PN1-Up 8YS1-Up 3CS1-Up | Scalloped Style Head Gasket | C10001SCLNLS | C10002SCLNLS | C10003SCL |
| C10 | 2PN1-Up 8YS1-Up 3CS1-Up | Straight Style Head Gasket | C10001STRNLS | C10002STRNLS | C10003STR |
| C-12 | 9NS1-Up | Scalloped Style Head Gasket | | C12002SCLNLS | C12003SCL |
| C-12 | 9NS1-Up | Straight Style Head Gasket | | C12002STRNLS | C12003STR |
| C-12 | 2KS1-Up | Scalloped Style Head Gasket | | C12022SCLNLS | C12003SCL |
| C-12 | 2KS1-Up | Straight Style Head Gasket | | C12022STRNLS | C12003STR |
| C-12 | MBL1-Up | Straight Style Head Gasket | | C12032STRNLS | C12003STR |
| C-12 | CPD1-Up | Straight Style Head Gasket | | C12052STRNLS | C12003STR |
| C-12 | 1YN1-Up | Straight Style Head Gasket | | C12012STRNLS | C12003STR |

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE |
|--|-------------------------------|--|--------------------------|----------------------|---------------------|
| C-12 | 1YN1-Up | Scalloped Style Head Gasket | | C12012SCLNLS | C12003SCL |
| C-12 | | Contains 1260110 Front Seal & 7C1728 (Dry) Single Lip Rear Seal* | C12009 | | |
| C-12 | | Contains 1694166 Front Seal & 7C1728 (Dry) Single Lip Rear Seal* | C12019 | | |
| C-12 | | Contains 1260110 Front Seal & 1005421 (Wet) Double Lip Rear Seal* | C12029 | | |
| C-12 | | Contains 1694166 Front Seal & 1005421 (Wet) Double Lip Rear Seal* | C12039 | | |
| *Use Kits Listed Above W/IPD Style InFrame Gasket Kit To Complete An Overhaul Set | | | | | |
| C13 | JAM1-Up | (Dry) Single Lip Rear Seal (MLS) Multiple Layer Steel) Gasket | C13001NLS | C13002NLS | C13003 |
| C13 | JAM1-Up | (Wet)Double Lip Rear Seal (MLS) Multiple Layer Steel) Gasket | C13011NLS | C13002NLS | C13003 |
| C13 | KCB1-Up | (Wet)Double Lip Rear Seal (MLS) Multiple Layer Steel) Gasket | C13021NLS | C13022NLS | C13023 |
| C13 | KCB1-Up | (Dry) Single Lip Rear Seal (MLS) Multiple Layer Steel) Gasket | C13031NLS | C13022NLS | C13023 |
| C13 | LEE1-Up | (Dry) Single Lip Rear Seal (MLS) Multiple Layer Steel) Gasket | C13041NLS | C13042NLS | C13043 |
| C13 | LEE1-Up | (Wet)Double Lip Rear Seal (MLS) Multiple Layer Steel) Gasket | C13051NLS | C13042NLS | C13043 |
| C-15 | 6NZ1-Up 9NZ1-Up MBN1-Up | Does Not Include Oil Pan Isolation Seal ,Oil Pan Gasket or Exhasut Manifold Gaskets Fuel Injector O-Rings Included | C15001 | C15002 | C15003 |
| C-15 | MXS1-Up NXS1-Up BXS1-Up | Does Not Include Oil Pan Isolation Seal ,Oil Pan Gasket or Exhasut Manifold Gaskets Fuel Injector O-Rings Included | C15011NLS | C15012NLS | C15013 |
| C-15 | EGH1-Up | Does Not Include Oil Pan Isolation Seal ,Oil Pan Gasket or Exhasut Manifold Gaskets Fuel Injector O-Rings Included | C15021 | C15022 | C15023 |
| C-15 | SDP1-Up | Does Not Include Oil Pan Isolation Seal ,Oil Pan Gasket or Exhasut Manifold Gaskets Fuel Injector O-Rings Included | C15041NLS | C15042NLS | C15043 |
| C18 | MDP1-Up | Does Not Include Oil Pan Isolation Seal or Oil Pan Gasket Does Not Include Exhaust Manifold Gaskets Fuel Injector O-Rings Included | C18041NLS | C18042NLS | |
| 3408 | 28V1-427 | | | 408082 | 408083 |
| 3408 | 28V428-Up | | 408091 | 408092 | 408093 |
| 3406 | | Brake Saver Lines Kit | | | 406009 |
| B, C, & D | | | | | |
| 3406 | Non-Plated Pan | Bearing Roll In Kit | | | 406019 |
| 3406 | Plated Pan | Bearing Roll In Kit | | | 406029 |
| 3406 A & B | | Water Pump Rebuild Gasket & Seal Kit (Inc. shaft seal, mounting gaskets & 4N1400 filter) | | | 406028 |
| 3406 A & B | | Water Pump Mounting Kit (Includes only gaskets and seals to mount pump) | | | 406018 |
| 3406 | | Fuel Pump Mounting Set (Includes only gaskets and seals to mount pump) | | | 406039 |
| A, B, & C | | | | | |

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|--|-------------------------|---|--|--------------------------|----------------------|---------------------|
| INDUSTRIAL AND MARINE ENGINES | | | | | | |
| 3114 | Industrial Generator | 1ZG1-Up 5EF1-Up 5JG1-Up 6AF1-Up | | 114021 | 114012 | 114013 |
| 3116 | Industrial Generator | 1NJ1-Up 2SG1-Up 2MR1-Up 2WG1-Up 4PG1-Up | | 116031 | | 116023 |
| 3116 | Marine | 1SK 4KG107-Up | | 116041 | In Development | 116043 |
| 3126 | Industrial | 3TR1-241 | 2 valves per cylinder | 3126031 | 3126032 | 3126033 |
| 3126 | Industrial | BEJ1-Up DCS 1-Up | 3 valves per cylinder | 3126041 | 3126042 | 3126043 |
| 3126 | Marine | 8NM1-Up | 2 valves per cylinder Limited # of applications require a 1247331 turbo mntg seal which is not included in this set | 3126051 | 3126052 | 3126053 |
| 3126 | Industrial | 9ZR1-Up 6MS1-UP | 2 valves per cylinder | 3126081 | 3126082 | 3126083 |
| 3145 | | 65P1-Up 96M1-Up | | | | |
| 3150 | Industrial Generator | 66P1-Up 97M1-Up | Non Turbocharged Engine | | 208012 | 208013 |
| 3160 | | 67P1-Up 98M1-Up | | | | |
| | | | Single Head Replacement Set | | | 208014 |
| 3204 | Industrial | 7EB1-Up 2TB1-Up | Non Turbocharged Spacer Plated | 204071 | 204072 | 204073 |
| 3208NA | Industrial Generator | 90N1-Up 29A225-Up | Non Turbocharged Engine Single Head Replacement Set | 208011 | 208012 | 208013 208014 |
| 3208T | Industrial Generator | 3Z1-Up 30A210-Up | Turbocharged Engine Single Head Replacement Set | 208031 | 208032 | 208033 208034 |
| 3208NA | Marine | 75V1-Up | Non Turbocharged Engine | 208041 | | 208043 |
| 3208T | Marine | 1Z1-Up 75V1-Up | Turbocharged With Fabric Only Exhaust Manifold Gaskets Single Head Replacement Set | 208051 | | 208053 208054 |
| 3208T | Marine | 1Z1-Up | Turbocharged With Fabric and Steel Exhaust Manifold Gaskets Single Head Replacement Set * If Aftercooler Gaskets Are Needed, Order 9X8569 Gasket Set | 208071* | | 208073* 208074* |
| 3304 | Industrial Generator | 2B4364-11013 4B455-17153 | Non Spacer Plated Turbocharged * If Expansion Tank Gaskets Are Needed, Order 6V0621 Gasket Set | 304171* | 304172* | 304173* |
| 3304 | Industrial Generator | 5B1387-2099 | Non Spacer Plated Turbocharged | | 304172* | 304173* |
| 3304 | Industrial Generator | 2B11014-Up 4B17154-Up | Spacer Plated Turbocharged * If Expansion Tank Gaskets Are Needed, Order 6V0621 Gasket Set | 304141* | 304142* | 304143* |
| 3304 | Industrial Generator | 10E300-Up 83Z1-Up 3TC1-Up 6YB1-Up 1PS1-Up | Spacer Plated Turbocharged * If Expansion Tank Gaskets Are Needed, Order 6V0621 Gasket Set | 304161* | 304162* | 304163* |

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|--|-------------------------|---|---|--------------------------|----------------------|---------------------|
| 3306 (333C 4.75" Bore) | Industrial | 66D1-Up | Non Spacer Plated Turbocharged or Non-Turbocharged P.C. Engines * Order Aftercooler Gasket Kit Separately if Required * If Expansion Tank Gaskets Are Needed, Order 6V0621 Gasket Set | 306391* | | |
| 3306 | Industrial | 66D1-Up | Spacer Plated Turbocharged or Non-Turbocharged P.C. Engines * Order Aftercooler Gasket Kit Separately if Required * If Expansion Tank Gaskets Are Needed, Order 6V0621 Gasket Set | 306371 | 306372* | 306373* |
| 3306B | Industrial | 7JB1-Up 5JC1-Up 8JJ1-Up 6PK1-Up 1CZ1-Up 64Z1-Up 85Z1-Up | Turbocharged Spacer Plated * Order Aftercooler Gasket Kit Separately if Required * If Expansion Tank Gaskets Are Needed, Order 6V0621 Gasket Set | 306381 | 306382* | 306383* |
| 3306 | Marine | 67D1-2863 | Turbocharged Non Spacer Plated * Order Aftercooler Gasket Kit Separately if Required | 306311 | 306312 | 306313 |
| 3306 | Marine | 67D2864-Up | Turbocharged Spacer Plated * Order Aftercooler Gasket Kit Separately if Required | 306321 | 306322 | 306323 |
| 3306B | Marine | 84Z1-Up | Turbocharged Spacer Plated * Order Aftercooler Gasket Kit Separately if Required | 306331 | 306332 | 306333 |
| C7 | Industrial | JRA1-Up | | C70111 | C70112 | C70113 |
| C7 | Industrial | JTF1-Up | Single Lip Rear Seal & Dry Exhaust Manifolds | C70121 | C70122 | C70123 |
| C9 | Industrial | MBD1-Up | | C90071NLS | C90072NLS | C90073 |
| C9 | Industrial | JSC1-Up | | C90081NLS | C90082NLS | C90083 |
| C9 | Industrial | CLJ1-Up | | C90111NLS | C90112NLS | C90113 |
| C12 | Industrial | BDL1-Up | Straight Stlye Head Gasket 1095308 Isolation Seal Not Included* *See Truck Kits For Overhaul Kit Information | | C12042STRNLS | C12003STR |
| C13 | Industrial | LGK1-Up PDN1-Up PFW1-Up RRA1-Up | (Dry) Single Lip Rear Seal With MLS (Multiple Layer Steel) Head Gasket | C13061NLS | C13062NLS | C13063 |
| C13 | Generator | PWE1-Up | | C13111NLS | C13112NLS | C13113 |
| 3406A | Industrial | 90U2159-Up 75Z1-Up | * If Aftercooler Gaskets Are Needed for 75Z, Order 1909861 Gasket Set | 406121 | 406122* | 406123* |
| 3406B | Industrial Generator | 2WB1-Up 6TB1-Up | USE W/19 Bolt Flywheel Housing | 406021 | 406022 | 406023 |
| 3406B | Industrial Generator | 2WB1-Up 6TB1-Up | W/24 Bolt Flywheel Housing | 406411 | 406412 | 406413 |

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|---|-------------------------|-------------------------------|---|--------------------------|----------------------|---------------------|
| 3406C | Industrial Generator | 6TB9857-Up 4RG1502-Up | W/19 Bolt Flywheel Housing | 406021 | 406022 | 406023 |
| 3406C | Industrial Generator | 6TB9857-Up | W/24 Bolt Flywheel Housing | 406411 | 406412 | 406413 |
| 3406C | Industrial Generator | 4ZR1-Up 8FS1-Up 1DZ1-Up | W/19 Bolt Flywheel Housing | 406101 | 406022 | 406023 |
| Note: Rear Housing liquid gasket maker is Not included | | | | | | |
| 3406C | Industrial Generator | 3ER1-Up 1SS1-Up | W/24 Bolt Flywheel Housing | 406151 | 406082 | 406083 |
| 3406A | Marine | 91U1-484 | | 406141 | | |
| 3406A | Marine | 91U721-Up | | 406131 | 406132 | 406133 |
| 3406B | Marine | 4TB1-3481 | | 406081 | 406082 | 406083 |
| | | | Fuel Pump Installation Set | | | 406039 |
| 3406C | Marine | 4TB3482-Up | W/19 Bolt Flywheel Housing Fuel Pump Installation Set | 406081 | 406082 | 406083 |
| | | | | | | 406039 |
| 3406E | Gen Set | 8AZ1-Up 1MZ1-Up | Spacer Plate Turbocharged Engine | 406281 | 406282 | 406283 |
| 3406E | Industrial | 9NN1-Up | Spacer Plate Turbocharged Engine | 406291 | 406292 | 406293 |
| 3406E | Industrial | 6BR1-Up | Spacer Plate Turbocharged Engine | 406301 | 406302 | 406303 |
| 3406E | Marine | 9WR1-Up | Spacer Plate Turbocharged Engine | 406421 | 406422 | 406423 |
| 3406 | Generator | 2GG1-Up | | 406481NLS | 406482NLS | 406483 |
| C15 | Industrial | JRE1-Up | DOES NOT INCLUDE OIL PAN ISOLATION SEAL INJECTOR SEALS INCLUDED | C15031NLS | C15032NLS | C15033 |
| C15 | Industrial | BEM 1-UP | Injector Seals Included | C15061NLS | C15062NLS | C15063 |
| C15 | Generator | FFH1-Up | Injector Seals Included | C15081NLS | C15082NLS | C15083 |
| C15 | Generator | FSE1-Up | Injector Seals Included | C15101NLS | C15102NLS | C15103 |
| 3408 | Industrial | 67U1335-Up | | 408051 | 408052 | 408053 |
| 3408 | Marine | 99U1-584 | | 408031 | 408032 | 408033 |
| 3408 | Marine | 99U585-4588 | | 408041 | 408042 | 408043 |
| | | | Single Head Replacement Set | | | 408044 |
| 3408 | Industrial | 78Z1-Up | | 408051 | 408052* | 408053* |
| If Aftercooler Gaskets Are Needed, Order 1247567 Gasket Set. If Expansion Tank Gasket Are Needed, Order 6V0237 Gasket Set. | | | | | | |
| 3408B 3408C | Marine | 99U4589-Up 1TS1-Up | 1TS With 19 Bolt Flywheel Housing. | 408041 | 408042 | 408043 |
| | | | Single Head Replacement Set | | | 408044 |
| 3412 | Industrial Generator | 38S1-16483 81Z1-14500 | 19 BOLT FLYWHEEL HOUSING | 412011 | 412012 | 412013 |
| | | | Single Head Replacement Set | | | 412034 |
| 3412C | Industrial Generator | 38S16484-Up 81Z14501-Up | 19 BOLT FLYWHEEL HOUSING | 412011 | 412012 | 412013 |
| | | | Single Head Replacement Set | | | 412034 |
| 3412C | Industrial Generator | 2WJ1-Up 1EZ1-Up | With sequential Turbos (4 Turbos) | 412011 | 412012 | 412013 |
| | | | Single Head Replacement Set | | | 412034 |
| | | | Supplementary Turbo Gasket Set | | | 412015 |
| 3412 | Marine | 60M1-Up 9BR1-Up | | 412031 | 412032 | 412033 |
| | | | Single Head Replacement Set | | | 412034 |
| 3412E | Industrial | 4CR1-Up | Spacer Plated Turbocharged Engine | 412121 | 412122 | 412123 |
| 3412E | Marine | 9KS 1-Up | Spacer Plated Turbocharged Engine | 412131 | 412132 | 412133 |
| 3412E | Marine | 9PW1-Up | Spacer Plated Turbocharged Engine | 412141 | 412142 | 412143 |
| 3412E | Industrial | BDT1-Up | | 412171NLS | 412172NLS | 412173 |

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|--|---------------|--|--|--------------------------|----------------------|---------------------|
| C18 | Generator | X6W1-Up | Does Not Include Exhaust Manifold Gaskets Includes Fuel Injector Seals | C18031 | C18032 | C18033 |
| C18 | Industrial | EJG1-Up | Does Not Include Oil Pan Isolation Seal, Oil Pan gasket Fuel Injector O-Rings Included | C18061 | C18062 | |
| C18 | Industrial | WJH1-Up | Includes Fuel Injector Seal Exhaust Manifold Gaskets Not Included | C18071 | C18072 | C18073 |
| C18 | Generator | EFE1-Up EST1-Up PDH1-Up STH1-Up | Does Not Include Oil Pan Isolation Seal, Oil Pan gasket or Exhaust Manifold Gaskets Fuel Injector O-Rings Included | C18081NLS | C18082NLS | C18083 |
| C18 | Marine | CYN1-Up | Injector Seals Included | C18051NLS | C18052NLS | C18053 |
| C18 | Marine | CKH1-Up | Does Not Include Oil Pan Isolation Seal, Oil Pan gasket or Exhaust Manifold Gaskets Fuel Injector O-Rings Included | C18131NLS | C18132NLS | C18133 |
| C18 | Generator | CYG1-Up MGS1-Up | Injector Seals Included | C18141NLS | C18142NLS | C18143 |
| C18 | Industrial | BDN1-Up | Includes Fuel Injector Seal Exhaust Manifold Gaskets Not Included | C18151NLS | C15152NLS | C18153 |
| C18 | Marine | T2P1-Up | Injector Seals Included | C18171NLS | C18172NLS | C18173 |
| C27 | MJE1-Up | Generator | DWB1-Up | C27051NLS | C27052NLS | C27053 |
| C27 | MJE1-Up | Generator | N1B1-Up | C27061NLS | C27062NLS | C27063 |
| C27 | MJE1-Up | Generator | STR1-Up | C27071NLS | C27072NLS | C27073 |
| C27 | Industrial | TWM1-Up | | C27081NLS | C27082NLS | C27083 |
| C32 | Generator | JSJ1-Up | | C32061NLS | C32062NLS | C32063 |
| C32 | Generator | JAZ1-Up | | C32071NLS | C32072NLS | C32073 |
| C32 | Industrial | NST1-Up TLD1-Up | | C32081NLS | C32082NLS | C32083 |
| C32 | Generator | SXC1-Up WDR1-Up | | C32091NLS | C32092NLS | C32093 |
| 3508 | Industrial | 68Z1-Up | With Dry Exhaust Manifolds | 508051 | | 508053 |
| | | 95Y1-Up | Single Head Replacement Set | | | 508054 |
| | | 68Z1-Up | With Wet Exhaust Manifolds | 508061 | | 508063 |
| | | 95Y1-Up | Single Head Replacement Set | | | 508064 |
| 3508 | Generator Set | 23Z1-Up | With Dry Exhaust Manifolds | 508051 | | 508053 |
| | | 70Z1-Up | Single Head Replacement Set | | | 508054 |
| | | 23Z1-Up | With Wet Exhaust Manifolds | 508061 | | 508063 |
| | | 70Z1-Up | Single Head Replacement Set | | | 508064 |
| 3508B | Generator Set | 4GM1-Up | With Dry Exhaust Manifolds (New EUI) | | | 508073 |
| | | 6PN1-Up | Single Head Replacement Set | | | 508074 |
| | | 2HW1-Up | Note: The New EUI sets contain a molded rubber seal for the rocker box and cannot be interchanged with the older EUI and MUI flat rocker box gaskets. Note: The New IPD 1679527 seals for Dry Ceramic Manifold Segments are not included in any gasket sets but are available individually. | | | |
| 3508 | Marine | 69Z1-Up | With Wet Exhaust Manifolds | 508061 | | 508063 |
| | | 96Y1-Up | Single Head Replacement Set | | | 508064 |
| 3508B | Marine | | With Dry Exhaust Manifolds | | | |
| | | 1TW1-Up 3DM1-Up 3DW1-Up 3PS1-Up 3TS1-Up 7SM1-Up | Single Head Replacement Set With Dry Ceramic Exhaust Manifolds (Old EUI) | | | 516124 |
| | | | Single Head Replacement Set With Dry Ceramic Exhaust Manifolds (New EUI) | | | 516164 |

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE |
|--|---------------|--|---|--------------------------|----------------------|---------------------|
| | | | <p>Note: The New EUI sets contain a molded rubber seal for the rocker box and cannot be interchanged with the older EUI and MUI flat rocker box gaskets.</p> <p>Note: The New IPD 1679527 seals for Dry Ceramic Manifold Segments are not included in any gasket sets but are available individually.</p> | | | |
| 3508 | Generator | 1FZ1-Up | | 508081NLS | | 508083 |
| 3508 | Locomotive | 6TJ1-Up | | | In Development | |
| 3512 | | 49Y1-Up | With Dry Exhaust Manifolds | 512031 | | 512033 |
| | | 65Z1-Up | Single Head Replacement Set | | | 508054 |
| | Industrial | 49Y1-Up | With Wet Exhaust Manifolds Valve Stem Seals Not Included | 512041 | 512042 | 512043 |
| | | 65Z1-Up | Single Head Replacement Set | | | 508064 |
| | | 24Z1-Up | With Dry Exhaust Manifolds | 512031 | | 512033 |
| | | 67Z1-Up | Single Head Replacement Set | | | 508054 |
| | Generator Set | 24Z1-Up | With Wet Exhaust Manifolds Valve Stem Seals Not Included | 512041 | 512042 | 512043 |
| | | 67Z1-Up | Single Head Replacement Set | | | 508064 |
| 3512B | Generator Set | 8RM1-Up | With Dry Ceramic Exhaust Manifolds. (New EUI) | 512161 | | 512163 |
| | | | Single Head Replacement Set With Dry Ceramic Exhaust Manifolds (New EUI) | | | 516164 |
| | | | <p>Note: The New EUI sets contain a molded rubber seal for the rocker box and cannot be interchanged with the older EUI and MUI flat rocker box gaskets.</p> <p>Note: The New IPD 1679527 seals for Dry Ceramic Manifold Segments are not included in any gasket sets but are available individually.</p> | | | |
| 3512B | Generator Set | 6WN1-Up 6GW1-Up | With Dry Exhaust Manifolds (New EUI) | | | 512073 |
| | | | Single Head Replacement Set | | | 508074 |
| | | | <p>Note: The New EUI sets contain a molded rubber seal for the rocker box and cannot be interchanged with the older EUI and MUI flat rocker box gaskets.</p> | | | |
| 3512B | Generator Set | 4AW1-Up | With Dry Exhaust Manifolds (New EUI) | 512071NLS | | 512073 |
| | | | Single Head Replacement Set | | | 508074 |
| 3512 | Marine | 50Y1-Up 66Z1-Up | With Wet Exhaust Manifolds Valve Stem Seals Not Included | 512041 | 512042 | 512043 |
| | | | Single Head Replacement Set | | | 508064 |
| | | | <p>Note: The New EUI sets contain a molded rubber seal for the rocker box and cannot be interchanged with the older EUI and MUI flat rocker box gaskets.</p> | | | |
| 3512B | Marine | 4TN1-Up 3RS1-Up 3WS1-Up | With Dry Exhaust Manifolds | | | |
| | | | Single Head Replacement Set With Dry Ceramic Exhaust Manifolds (Old EUI) | | | 516124 |
| | | | Single Head Replacement Set With Dry Ceramic Exhaust Manifolds (New EUI) | | | 516164 |
| | | | <p>Note: The New EUI sets contain a molded rubber seal for the rocker box and cannot be interchanged with the older EUI and MUI flat rocker box gaskets.</p> <p>Note: The New IPD 1679527 seals for Dry Ceramic Manifold Segments are not included in any gasket sets but are available individually.</p> | | | |
| 3512B | Marine | 1PW1-Up 7HM1-Up 8EM1-Up 8RM1-Up | With Dry Ceramic Exhaust Manifolds (New EUI) | 512161 | | 512163 |
| | | | Single Head Replacement Set With Dry Ceramic Exhaust Manifolds (New EUI) | | | 516164 |
| | | | <p>Note: The New EUI sets contain a molded rubber seal for the rocker box and cannot be interchanged with the older EUI and MUI flat rocker box gaskets.</p> <p>Note: The New IPD 1679527 seals for Dry Ceramic Manifold Segments are not included in any gasket sets but are available individually.</p> | | | |

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE |
|--|--------------------|---------|--------------------------|----------------------|---------------------|
| not included in any gasket sets but are available individually. | | | | | |
| 3512 | Generator Set | 1KZ1-Up | 512091NLS | | 512093 |

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE | | |
|--|---------------|--|--|--------------------------|----------------------|---------------------|--------|--|
| 3516 | Industrial | 27Z1- Up 71Z1-Up | With Dry Exhaust Manifolds | 516031 | | 516033 | | |
| | | | Single Head Replacement Set | | | 508054 | | |
| | | 27Z1-Up 71Z1-Up | With Wet Exhaust Manifolds | 516041 | | 516043 | | |
| | | | Single Head Replacement Set | | | 508064 | | |
| 3516 | Generator Set | 25Z1-Up 5SJ1-Up 73Z1-Up G1W1-Up | With Dry Exhaust Manifolds | 516031 | | 516033 | | |
| | | | Single Head Replacement Set | | | 508054 | | |
| | | 25Z1-Up 73Z1-Up | With Wet Exhaust Manifolds | 516041 | | 516043 | | |
| | | | Single Head Replacement Set | | | 508064 | | |
| 3516B | Generator Set | 6HN1-Up 7RN1-Up 1NW1-Up 8NW1-Up | With Dry Exhaust Manifolds (New EUI) | | | 516073 | | |
| | | | Single Head Replacement Set | | | 508074 | | |
| | | | Note: The New EUI sets contain a molded rubber seal for the rocker box and cannot be interchanged with the older EUI and MUI flat rocker box gaskets. | | | | | |
| 3516 | Generator Set | 5SJ1-Up | High-Speed Phase II Engine | 516031 | | | | |
| 3516 | Marine | 29Z1-Up 72Z1-Up | With Wet Exhaust Manifolds | 516041 | | 516043 | | |
| | | | Single Head Replacement Set | | | 508064 | | |
| 3516 | Marine | 4MJ150-Up | | 516141 | | 516143 | | |
| | | | Single Head Replacement Set With Dry Ceramic Exhaust Manifolds (MUI) | | | 516144 | | |
| | | | Note: The New IPD 1679527 seals for Dry Ceramic Manifold Segments are not included in any gasket sets but are available individually. | | | | | |
| 3516B | Marine | 2FW1-Up 3SS1-Up 3SX1-Up 8CN1-Up 8KN1-Up 9AN1-Up | With Dry Exhaust Manifolds | | | | | |
| | | | With Dry Ceramic Exhaust Manifolds (Old EUI) | | | 516123 | | |
| | | | Single Head Replacement Set With Dry Ceramic Exhaust Manifolds (Old EUI) | | | 516124 | | |
| | | | With Dry Ceramic Exhaust Manifolds (New EUI) | | | 516161 | 516163 | |
| | | | Single Head Replacement Set With Dry Ceramic Exhaust Manifolds (New EUI) | | | | 516164 | |
| | | | Note: The New EUI sets contain a molded rubber seal for the rocker box and cannot be interchanged with the older EUI and MUI flat rocker box gaskets. | | | | | |
| | | | Note: The New IPD 1679527 seals for Dry Ceramic Manifold Segments are not included in any gasket sets but are available individually. | | | | | |
| 3516B | Generator Set | ZAP1-Up YAW-Up | Single Cylinder Head Replacement Set | 516091NLS | | 516093 516094 | | |
| D342 | Industrial | 31B1-Up | Non Spacer Plated * Rear Crankshaft Seal is NOT Included | 342051* | 342052 | 342053 | | |
| D342 | Marine | 32B1-2268 | Non Spacer Plated * Rear Crankshaft Seal is NOT Included | 342061* | 342062 | 342063 | | |
| D343 | Marine | 33B1-667 | Non Spacer Plated * Rear Crankshaft Seal is NOT Included | 343011* | | 343113 | | |

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE |
|--|------------|---|--|--------------------------|----------------------|---------------------|
| D343 | Marine | 33B668-3027 62B1-Up | Non Spacer Plated * Rear Crankshaft Seal is NOT Included Note that above D343's use two different Head Replacement Sets, parts to do both are included in the Overhaul set | 343011* | | 343013 |
| D343 | Marine | 33B3028-Up | Spacer Plated * Contains 5S3903 Silicone Lip Rear Crankshaft Seal Only | 343061* | | 343063 |
| D343 | Industrial | 62B6728-Up | Spacer Plated * Rear Crankshaft Seal is NOT Included | 343081* | | 343083 |
| D353 | Industrial | 46B1-869 | Non Spacer Plated | 353031 | 353032 | 353033 |
| D353 | Industrial | 46B870-6446 77B1-Up | Non Spacer Plated | 353051 | 353052 | 353053 |
| D353 | Industrial | 46B6447-Up 46B870-6446 Converted Engines | Spacer Plated | 353071 | 353072 | 353073 |
| D353 | Marine | 47B1-469 | Non Spacer Plated | 353031 | 353032 | 353033 |
| D353 | Marine | 47B470-4207 | Non Spacer Plated Single Head Replacement Set | 353061 | 353062 | 353063 353064 |
| D353 | Marine | 47B470-Up Converted Engines | Spacer Plated | 353071 | 353072 | 353073 |
| D379 | Industrial | 68B2540-Up | | 379011 | 379012 | 379013 |
| | | | Incl. special IPD Composite Head Gasket | 379011CP | 379012CP | 379013CP |
| | | | Single Head Replacement Set Includes Ferrules | | | 399014 |
| | | | Incl. special IPD Composite Head Gasket | | | 399014CP |
| | | | Single Head Replacement Set Includes Ferrules for H₂O Shielded Manifold | | | 399044 |
| | | | Incl. special IPD Composite Head Gasket | | | 399044CP |
| | | | Single Head Replacement Set Includes Ferrules for H₂O Cooled Manifold | | | 399144 |
| | | | Incl. special IPD Composite Head Gasket | | | 399144CP |
| D379 | Marine | 69B1227-Up | | 379041 | 379042 | 379043 |
| | | | Incl. special IPD Composite Head Gasket | 379041CP | 379042CP | 379043CP |
| | | | Single Head Replacement Set Includes Ferrules for H₂O Shielded Manifold | | | 399044 |
| | | | Incl. special IPD Composite Head Gasket | | | 399044CP |
| | | | Single Head Replacement Set Includes Ferrules for H₂O Cooled Manifold | | | 399144 |
| | | | Incl. special IPD Composite Head Gasket | | | 399144CP |
| D398 | Industrial | 66B1-3560 75B1-Up | | 398011 | | 398013 |
| | | | Incl. special IPD Composite Head Gasket | 398011CP | | 398013CP |
| | | | Single Head Replacement Set Includes Ferrules | | | 399014 |
| | | | Incl. special IPD Composite Head Gasket | | | 399014CP |
| | | | Single Head Replacement Set Includes Ferrules for H₂O Shielded Manifold | | | 399044 |
| | | | Incl. special IPD Composite Head Gasket | | | 399044CP |
| | | | Single Head Replacement Set Includes Ferrules for H₂O Cooled Manifold | | | 399144 |
| | | | Incl. special IPD Composite Head Gasket | | | 399144CP |
| D398 | Industrial | 66B3561-Up | | 398031 | 398032 | 398023 |
| | | | Incl. special IPD Composite Head Gasket | 398031CP | 398032CP | 398023CP |
| | | | Single Head Replacement Set Includes Ferrules | | | 399014 |
| | | | Incl. special IPD Composite Head Gasket | | | 399014CP |
| | | | Single Head Replacement Set Includes Ferrules for H₂O Shielded Manifold | | | 399044 |
| | | | Incl. special IPD Composite Head Gasket | | | 399044CP |
| | | | Single Head Replacement Set Includes Ferrules for H₂O Cooled Manifold | | | 399144 |
| | | | Incl. special IPD Composite Head Gasket | | | 399144CP |

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE |
|--|------------------------|---|---|----------------------|---------------------|
| D398 Marine | 67B1391-Up | Incl. special IPD Composite Head Gasket | 398061 | 398062 | 398063 |
| | | Single Head Replacement Set Includes Ferrules | 398061CP | 398062CP | 398063CP |
| | | Incl. special IPD Composite Head Gasket | | | 399014 |
| | | Single Head Replacement Set Includes Ferrules for H₂O Shielded Manifold | | | 399014CP |
| | | Incl. special IPD Composite Head Gasket | | | 399044 |
| | | Single Head Replacement Set Includes Ferrules for H₂O Cooled Manifold | | | 399044CP |
| D398 Generator | 35Z1-Up | Incl. special IPD Composite Head Gasket | 398021 | 398032 | 398023 |
| | | Single Head Replacement Set Includes Ferrules | 398021CP | 398032CP | 398023CP |
| | | Incl. special IPD Composite Head Gasket | | | 399014 |
| | | Single Head Replacement Set Includes Ferrules for H₂O Shielded Manifold | | | 399014CP |
| | | Incl. special IPD Composite Head Gasket | | | 399044 |
| | | Single Head Replacement Set Includes Ferrules for H₂O Cooled Manifold | | | 399044CP |
| D399 Industrial | 35B688-Up 36Z1-1920 | Incl. special IPD Composite Head Gasket | 399021 | 399022 | 399023 |
| | | Single Head Replacement Set Includes Ferrules | 399021CP | 399022CP | 399023CP |
| | | Incl. special IPD Composite Head Gasket | | | 399014 |
| | | Single Head Replacement Set Includes Ferrules for H₂O Shielded Manifold | | | 399014CP |
| | | Incl. special IPD Composite Head Gasket | | | 399044 |
| | | Single Head Replacement Set Includes Ferrules for H₂O Cooled Manifold | | | 399044CP |
| D399 Marine | 91B253-Up | Incl. special IPD Composite Head Gasket | 399031 | 399032 | 399033 |
| | | Single Head Replacement Set. Includes Ferrules | 399031CP | 399032CP | 399033CP |
| | | Incl. special IPD Composite Head Gasket | | | 399014 |
| | | Single Head Replacement Set Includes Ferrules for H₂O Shielded Manifold | | | 399014CP |
| | | Incl. special IPD Composite Head Gasket | | | 399044 |
| | | Single Head Replacement Set Includes Ferrules for H₂O Cooled Manifold | | | 399044CP |
| MISCELLANEOUS SETS | | Incl. special IPD Composite Head Gasket | | | 399144 |
| D379 / D398 / D399 | | Fresh Water Pump Gasket & Seal Set (includes installation gaskets) | | | 399144CP |
| | | Fresh Water Pump Installation Set (To install unit only) | | | 398008 |
| | | Raw Water Pump installation Set (To Install unit only) | | | 399018 |
| | | Lube Oil Pump Installation Set (To install unit only) | | | 399008 |
| | | Fuel Transfer Pump Installation Set (To install unit only) | | | 399006 |
| | | Turbocharger Installation Set (To install unit only) | | | 399009 |
| | | Aftercooler Installation Set (To install unit only) | | | 399005 |
| | | | | | 399015 |
| FRONT AND REAR CRANKSHAFT SEALS | | | (Not included in any D379 / D398 / D399 IPD Style Gasket Sets) | | |
| D379 / D398 / D399 | | Crankshaft Seal Ring | | | 3N9160 |
| FRONT AND REAR CRANKSHAFT SEALS-DIRECTIONAL TYPE | | | | | |
| D379 / D398 / D399 | | Standard Rotation-Counter Clockwise-Viewing Engine Facing Flywheel | | Front Seal | 4W2606 |
| | | Opposite Rotation-Clockwise-Viewing Engine Facing Flywheel | | Rear Seal | 4W2606 |
| | | Standard Rotation-Counter Clockwise-Viewing Engine Facing Flywheel | | Rear Seal | 4W2607 |
| | | Opposite Rotation-Clockwise Viewing-Engine Facing Flywheel | | Front Seal | 4W2607 |
| CRANKSHAFT DIRECTIONAL TYPE SEAL CONVERSION GROUPS | | | | | |
| D379 / D398 / D399 | | Standard Rotation-Counter Clockwise-Viewing Engine Facing Flywheel | | Front | 4W2568 |
| | | (Includes: Adapter, Seal, And Mounting Gasket) | | Rear | 4W2569 |
| | | Opposite Rotation-Clockwise-Viewing Engine Facing Flywheel | | Front | 4W2570 |
| | | (Includes: Adapter, Seal, And Mounting Gasket) | | Rear | 4W2571 |

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE |
|--|--------------------------|--|---|--------------------------|----------------------|------------------------------|
| NATURAL GAS ENGINES | | | | | | |
| G3304 | Natural Gas | 37Y1-Up N4F1-Up | Non Turbocharged * If Equipped W/Long Valve Train, Order 1-8S1606 additionally | 304151* | 304152* | 304153* |
| G3304 | Natural Gas | 1RG1-Up | | | In Development | |
| G3306 | Natural Gas | 7Y291-Up G6X1-Up | Turbocharged - Spacer Plated * If Expansion Tank Gaskets Are Needed, Order 6V0621 Gasket Set * If Equipped W/Long Valve Train, Order 1-8S1605 additionally * Order Aftercooler Gasket Kit Separately if Required | 306341* | 306342* | 306343* |
| G3306 | Natural Gas | 7Y291-Up G6X1-Up | Non Turbocharged Spacer Plated * If Expansion Tank Gaskets Are Needed, Order 6V0621 Gasket Set * If Equipped W/Long Valve Train, Order 1-8S1605 Additional+D1220 | 306351* | 306352* | 306353* |
| G3406 | Natural Gas | 4FD1-Up 1RK1-Up | Non Turbocharged Spacer Plated 19 Bolt Rear Cover | 406221 | 406222 | 406223 |
| G3406 | Natural Gas | 4FD1-Up 1RK1-Up | Turbocharged Spacer Plated 19 Bolt Rear Cover | 406261 | | 406263 |
| G3406 | Natural Gas Lean Burn | 1RK1-Up | Turbocharged Aftercooled Engine | 406261 | | |
| G3408 | Natural Gas | 6NB1-Up | Turbocharged Aftercooled Engine | 408261 | | 408263 |
| G3408 | Natural Gas Lean Burn | 3WR1-Up 6FW1-Up 6RJ1-Up 8YR1-Up | Turbocharged Aftercooled Engine | 408261 | | 408263 |
| G3408 | Natural Gas | BAZ 207-Up | Turbocharged Aftercooled Engine | 408271NLS | 408272NLS | 408273 |
| G3412 | Natural Gas | 7DB1-Up | Non Turbocharged - Non Aftercooled Single Head Replacement Set | 412091 | | 412093 412114 |
| G3412 | Natural Gas | 7DB1-Up | Turbocharged Aftercooled Single Head Replacement Set | 412111 | | 412113 412114 |
| G3412 | Natural Gas | 5KR1-Up 6ZM1-Up 9RR1-Up | | | In Development | |
| G3412 | Natural Gas Lean Burn | 3NK | | | In Development | |
| G3412 | Natural Gas | KAP1-Up | Turbocharged Aftercooled Engine | 412181NLS | 412182NLS | 412183 |
| G3508 | Natural Gas | 2JF1-Up | W/ Magneto Ignition System And Wet Exhaust Manifolds Single Head Replacement Set With Wet Exhaust Manifolds Single Head Replacement Set With Dry Ceramic Exhaust Manifolds Note: The New IPD 1547477 seals for Dry Ceramic Manifold Segments are not included in any gasket sets but are available individually. | 508031 | | 508033 508044EM 516114 |
| G3508 | Natural Gas | 9TG1-Up 4WD1-Up | W/ Electronic Ignition System And Wet Exhaust Manifolds Single Head Replacement Set With Wet Exhaust Manifolds Single Head Replacement Set With Dry Ceramic Exhaust Manifolds Note: The New IPD 1547477 seals for Dry Ceramic Manifold Segments are not included in any gasket sets but are available individually. | 508041 | | 508043 508044EM 516114 |
| G3512 | Natural Gas | 4KC1-Up | W/ Magneto Ignition System And Wet Exhaust Manifolds Single Head Replacement Set With Wet Exhaust Manifolds Single Head Replacement Set With Dry Ceramic Exhaust Manifolds Note: The New IPD 1547477 seals for Dry Ceramic Manifold Segments are not included in any gasket sets but are available individually. | 512011 | 512012 | 512013 508044EM 516114 |

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE |
|--|-------------|-------------------------------|--|--------------------------|----------------------|---------------------|
| G3512 | Natural Gas | 5JD1-Up 7NJ1-Up | W/ Electronic Ignition System And Wet Exhaust Manifolds | 512021 | 512022 | 512023 |
| | | | Single Head Replacement Set With Wet Exhaust Manifolds | | | 508044EM |
| | | | Single Head Replacement Set With Dry Ceramic Exhaust Manifolds | | | 516114 |
| | | | Note: The New IPD 1547477 seals for Dry Ceramic Manifold Segments are not included in any gasket sets but are available individually. | | | |
| G3512 | Natural Gas | 5JD1-Up 7NJ1-Up | W/ Electronic Ignition System And Dry Exhaust Manifolds...Late EIS | | | 512113 |
| | | | Single Head Replacement Set With Dry Ceramic Exhaust Manifolds | | | 516114 |
| | | | Note: The New IPD 1547477 seals for Dry Ceramic Manifold Segments are not included in any gasket sets but are available individually. | | | |
| | | | | | | |
| G3516 | Natural Gas | 3RC1-Up | W/ Magneto Ignition System And Wet Exhaust Manifolds | 516011 | 516012 | 516013 |
| | | | Single Head Replacement Set With Wet Exhaust Manifolds | | | 508044EM |
| | | | Single Head Replacement Set With Dry Ceramic Exhaust Manifolds | | | 516114 |
| G3516 | Natural Gas | 8LD1-Up 4EK1-Up | W/ Electronic Ignition System And Wet Exhaust Manifolds | 516021 | 516022 | 516023 |
| | | | Single Head Replacement Set With Wet Exhaust Manifolds | | | 508044EM |
| | | | Single Head Replacement Set With Dry Ceramic Exhaust Manifolds | | | 516114 |
| | | | Note: The New IPD 1547477 seals for Dry Ceramic Manifold Segments are not included in any gasket sets but are available individually. | | | |
| G3516 | Natural Gas | CTL1-Up | Wet Exhaust Manifolds | 516061NLS | | 516063 |
| G3516 | Natural Gas | 4EK1-Up 8LD1-Up | W/ Electronic Ignition System And Dry Ceramic Exhaust Manifolds | 516111 | | 516113 |
| | | | Single Head Replacement Set With Dry Ceramic Exhaust Manifolds | | | 516114 |
| | | | Note: The New IPD 1547477 seals for Dry Ceramic Manifold Segments are not included in any gasket sets but are available individually. | | | |
| G3516 | Natural Gas | CTW1-UP | | 516131 | | 516133 |
| G3516 | Natural Gas | WPW1-Up | | 516191NLS | | 516193 |
| G3516 | Natural Gas | ZBA1-Up | | 516151NLS | | 516153 |
| G3516 | Natural Gas | JEF1-Up | ULB (ULTRA LEAN BURN) Single Head Replacement Set | 516201NLS | | 516204 |
| G3520 | Natural Gas | BGW1-Up CWD1-Up GZP1Up | | 520001NLS | | 520003 |
| | | | | | | |
| G3520 | Natural Gas | GDB1-UP GZA1-UP GZB1-UP | | 520011NLS | | 520013 |
| | | | | | | |
| G3520 | Natural Gas | JBX202-UP LGS1-UP | WITH WET EXHAUST MANIFOLDS | 520021NLS | | 520023 |
| G3520 | Natural Gas | JBZ1-UP | WITH WET EXHAUST MANIFOLDS | 520031NLS | | 520033 |
| G3520 | Natural Gas | RLP1-UP GZJ1-Up | | 520041NLS | | 520043 |
| G3600 | Natural Gas | | Single Cylinder Head Set | | | 360004 |
| G342 | Natural Gas | 71B1-Up | Non Spacer Plated | 342071 | 342072 | 342073 |
| | | | | | | 342074 |
| G342 | Natural Gas | 71B1-Up | Spacer Plated | 342081 | | 342083 |
| | | | | | | 342084 |
| G379 | Natural Gas | 72B468-Up | Non Turbocharged | 379021 | 379022 | 379023 |
| | | | Incl. special IPD Composite Head Gasket | 379021CP | 379022CP | 379023CP |
| | | | Single Head Replacement Set Includes Ferrules | | | 399054 |
| | | | Incl. special IPD Composite Head Gasket | | | 399054CP |
| G379 | Natural Gas | 72B468-Up | Turbocharged Aftercooled Engine | 379031 | 379032 | 379033 |
| | | | Incl. special IPD Composite Head Gasket | 379031CP | 379032CP | 379033CP |
| | | | Single Head Replacement Set Includes Ferrules | | | 399054 |
| | | | Incl. special IPD Composite Head Gasket | | | 399054CP |

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE | |
|--|----------------------------------|--|---|---------------------------------------|----------------------|---------------------|--------|
| G398 | Natural Gas | 73B1-905 | Non Turbocharged | 398081 | | 398083 | |
| | | | Incl. special IPD Composite Head Gasket | 398081CP | | 398083CP | |
| | | | Single Head Replacement Set Includes Ferrules | | | 398084 | |
| | | | Incl. special IPD Composite Head Gasket | | | 398084CP | |
| G398 | Natural Gas | 73B906-Up | Non Turbocharged | 398161 | 398162 | 398163 | |
| | | | Incl. special IPD Composite Head Gasket | 398161CP | 398162CP | 398163CP | |
| | | | Single Head Replacement Set Includes Ferrules | | | 399054 | |
| | | | Incl. special IPD Composite Head Gasket | | | 399054CP | |
| G398 | Natural Gas | 73B906-Up | Turbocharged | 398091 | 398092 | 398093 | |
| | | | Incl. special IPD Composite Head Gasket | 398091CP | 398092CP | 398093CP | |
| | | | Single Head Replacement Set Includes Ferrules | | | 399054 | |
| | | | Incl. special IPD Composite Head Gasket | | | 399054CP | |
| G399 | Natural Gas | 49C261-Up | Non Turbocharged | 399121 | 399122 | 399123 | |
| | | | Incl. special IPD Composite Head Gasket | 399121CP | 399122CP | 399123CP | |
| | | | Single Head Replacement Set Includes Ferrules | | | 399054 | |
| | | | Incl. special IPD Composite Head Gasket | | | 399054CP | |
| G399 | Natural Gas Applications Only | 49C261-Up | Turbocharged Aftercooled Engine | 399131 | 399132 | 399133 | |
| | | | Incl. special IPD Composite Head Gasket | 399131CP | 399132CP | 399133CP | |
| | | | Single Head Replacement Set Includes Ferrules | | | 399054 | |
| | | | Incl. special IPD Composite Head Gasket | | | 399054CP | |
| MISCELLANEOUS SETS | | | | | | | |
| G379 / G398 / G399 | | Fresh Water Pump Gasket & Seal Set (includes installation gaskets) | | | | 398008 | |
| | | Fresh Water Pump Installation Set (To install unit only) | | | | 399018 | |
| | | Raw Water Pump installation Set (To install unit only) | | | | 399008 | |
| | | Lube Oil Pump Installation Set (To install unit only) | | | | 399006 | |
| | | Turbocharger Installation Set (To install unit only) | | | | 399005 | |
| | | Aftercooler Installation Set (To install unit only) | | | | 399015 | |
| FRONT AND REAR CRANKSHAFT SEALS | | | (Not included in any G379 / G398 / G399 IPD Style Gasket Sets) | | | | |
| G379 / G398 / G399 | | Crankshaft Seal Ring | | | | | 3N9160 |
| FRONT AND REAR CRANKSHAFT SEALS-DIRECTIONAL TYPE | | | | | | | |
| G379 / G398 / G399 | | Standard Rotation-Counter Clockwise-Viewing Engine Facing Flywheel | | | Front Seal | 4W2606 | |
| | | Opposite Rotation-Clockwise-Viewing Engine Facing Flywheel | | | Rear Seal | 4W2606 | |
| | | Standard Rotation-Counter Clockwise-Viewing Engine Facing Flywheel | | | Rear Seal | 4W2607 | |
| | | Opposite Rotation-Clockwise-Viewing Engine Facing Flywheel | | | Front Seal | 4W2607 | |
| CRANKSHAFT DIRECTIONAL TYPE SEAL CONVERSION GROUPS | | | | | | | |
| G379 / G398 / G399 | | Standard Rotation-Counter Clockwise-Viewing Engine Facing Flywheel | | | Front | 4W2568 | |
| | | (Includes: Adapter, Seal, And Mounting Gasket) | | | Rear | 4W2569 | |
| | | Opposite Rotation-Clockwise-Viewing Engine Facing Flywheel | | | Front | 4W2570 | |
| | | (Includes: Adapter, Seal, And Mounting Gasket) | | | Rear | 4W2571 | |
| TRACK TYPE TRACTORS | | | | | | | |
| D3 | 3204 | 6N1-Up 79U1-Up 82U1-Up 83U1-Up | 45V1-Up | P.C. And D.I. Non Turbocharged Engine | 204011 | 204012 | 204013 |
| D3B | 3204 | 23Y1-Up 24Y1-Up | 45V1-32893 | P.C. And D.I. Non Turbocharged Engine | 204011 | 204012 | 204013 |
| D3B | 3204 | 23Y1-Up 24Y1-Up | 45V32894-40125 | D.I. Non Turbocharged Engine | 204021 | 204022 | 204023 |
| D3B | 3204 | 23Y1-Up 24Y1-Up | 45V40126-Up | D.I. Non Turbocharged Engine | 204061 | 204062 | 204063 |
| D3B | 3204 | 27Y1-Up 28Y1-Up | 45V1-32939 | P.C. And D.I. Non Turbocharged Engine | 204011 | 204012 | 204013 |
| D3B | 3204 | 27Y1-Up 28Y1-Up | 45V32940-40209 | D.I. Non Turbocharged Engine | 204021 | 204022 | 204023 |
| D3B | 3204 | 27Y1-Up 28Y1-Up | 45V40210-Up | D.I. Non Turbocharged Engine | 204061 | 204062 | 204063 |

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE |
|--|------|---|--|--------------------------|----------------------|---------------------|
| D3B D3C | 3204 | 1PJ1-Up 3YC1-Up 3RF1-Up 5MC1-Up 6PF1-Up 8BF1-Up | 45V48070-Up D.I. Non Turbocharged Engine | 204061 | 204062 | 204063 |
| D3B D3C | 3204 | 2PC1-Up 7JF1-Up | 45V40547-Up 45V70378-Up D.I. Turbocharged Engine W/ 3208 Style Oil Cooler | 204041 | 204042 | 204043 |
| D4C | 3204 | 1RJ1-Up 2CJ1-Up 2FX1-Up 7KG1-Up 9BG1-Up | 45V69350-Up 45V90750-Up 7YJ1-Up 45V60736-Up Non Turbocharged W/Large Oil Cooler | 204081 | 204082 | 204083 |
| D4D | 3304 | 59J1-1280 60J1-3269 61J1-641 82J1-3343 83J1-3176 84J1-1524 | Non Spacer Plated Non Turbocharged | 304131 | 304012 | 304013 |
| D4E | 3304 | 71X1-Up 72X1-Up 68X1-Up | 48V1-52800 48V1-52810 78P1-47087 43V1-19033 48V1-52811 Non Spacer Plated Non Turbocharged | 304031 | 304032 | 304033 |
| D4E | 3304 | 71X 1-Up 72X1-Up 68X1-Up | 48V52801-Up 48V52801-Up 78P47088-Up 43V19034-Up 48V52812-Up Spacer Plated Non Turbocharged | 304051 | 304052 | 304053 |
| D4E | 3304 | | 7Z1-Up 12Z1-Up Spacer Plated Non Turbocharged | 304061 | 304062 | 304063 |
| D4E | 3304 | | 7Z1-Up 12Z1-Up Spacer Plated Turbocharged | 304081 | 304082 | 304083 |
| D4H | 3204 | 2Ac1-Up 3AC1-Up 8PB1-Up 8ZF1-Up 9DB1-Up | 45V39556-Up D.I. Turbocharged Engine W/ 3208 Style Oil Cooler | 204041 | 204042 | 204043 |
| D4H | 3304 | 4NK1-Up 8PG1-Up 9GJ1-Up | 9Z1-Up Spacer Plated Turbocharged | 304081 | 304082 | 304083 |
| D5 | 3306 | 62J1-Up 63J1-Up 93J1-Up 94J1-Up 95J1-Up 96J1-Up 98J1-Up | Non Spacer Plated Non Turbocharged | 306041 | 306042 | 306043 |
| D5 D5B | 3306 | 48X1-Up 49X1-1295 | 44V1-22230 44V1-22252 3N1-79762 Non Spacer Plated Non Turbocharged | 306031 | 306032 | 306033 |
| D5 D5B | 3306 | 48X1-Up 49X1296-Up | 44V22231-Up 44V22253-Up 3N79763-Up Spacer Plated Non Turbocharged | 306011 | 306012 | 306013 |

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | | | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE |
|--|------|---|--|--|--------------------------|----------------------|---------------------|
| D5B | 3306 | 26X878-Up 21Y878-Up | 8Z1-Up 10z1-Up 13Z1-Up 1AF1-Up | Spacer Plated Non Turbocharged | 306071 | 306072 | 306073 |
| D5C | 3204 | 3MK1-Up 6PJ1-Up | 45V97770-Up 7YJ1-Up | Turbocharged Engine W/ Large Oil Cooler | 204091 | 204092 | 204093 |
| D5H | 3304 | 1DC1-Up 7NC1-Up 8RC1-Up 9HC1-Up | 12Z10967-Up | Spacer Plated Turbocharged | 304091 | 304092 | 304093 |
| D6C | 3306 | 17R1-464 10K1-7952 46J1-868 47J1-2559 99J1-1753 | | Non Spacer Plated Non Turbocharged | 306041 | 306042 | 306043 |
| D6C | 3306 | 10K7953-Up 46J869-Up 47J2560-Up 99J1754-Up 69U316-Up 17R465-Up | | Non Spacer Plated Turbocharged * Order Aftercooler Gasket Kit Separately if Required | 306111* | 306112* | 306113* |
| D6C D6D | 3306 | 19X1-Up 20X1-Up 46J1-Up 47J1-Up | 49V1-24230 | Non Spacer Plated Turbocharged Engine * Order Aftercooler Gasket Kit Separately if Required | 306031* | 306032* | 306033* |
| D6D | 3306 | 3X1-Up 4X1-Up 5X1-Up 6X1-Up 19X1-Up 20X1-Up 30X1-Up 31X1-Up 32X1-Up | 3N1-77760 3N1-79762 44V1-22286 44V1-22350 47V1-17093 | Non Spacer Plated Turbocharged * Order Aftercooler Gasket Kit Separately if Required | 306121* | 306122* | 306123* |
| D6D | 3306 | 3X1-Up 4X1-Up 5X1-Up 6X1-Up 19X1-Up 20X1-Up 30X1-Up 31X1-Up 32X1-Up | 3N79763-Up 44V22287-Up 44V22351-Up 47V17094-Up 49V24231-Up | Spacer Plated Turbocharged | 306021 | 306022* | 306023* |
| D6D D6H | 3306 | | 8Z1-Up 10z1-Up 13Z1-Up 1AF1-Up | Spacer Plated Turbocharged * Order Aftercooler Gasket Kit Separately if Required | 306271* | 306272* | 306273* |
| D6M | 3116 | 4JN-Up 3WN1-Up 9ZM1-Up | 4TF1-Up | | 116051 | 116052 | 116023 |

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|--|------|---|---------------------------------------|--------------------------|----------------------|---------------------|---------|
| D6R | C9 | AAX1-Up ACJ1-Up ADE1-Up AEM1-U AEP1-Up AFM1-Up AGM1-Up BLE1-Up BLT1-Up BMJ1-Up BMY1-Up BNC1-Up BPM1-Up BPP1-Up BPS1-Up BOZ1-Up BRE1-Up BRJ1-Up BRJ1-Up CAD1-Up DAE1-Up FDT1-Up | SAN1-Up 4ZF1-Up | | C90021NLS | C90012NLS | C90013 |
| D6R | C9 | DLM-Up DMK-Up DPS-Up GJB1-Up GMT1-Up HCD1-Up HKE1-Up JDL1-Up LFM1-Up MRT1-Up MTJ1-Up MTJ1-Up RFC1-Up TBC1-Up WRG1-Up | THX1-IP THY1-Up | | C90031 | C90032NLS | C90033 |
| D6T | C9 | JHB1-Up | THX1-Up | | C90091NLS | C90092NLS | C90093 |
| D7F | 3306 | 93N1-1174 94N1-5191 | Non Spacer Plated Turbocharged | | 306041 | 306042 | 306043 |
| D7G | 3306 | 3N1-79762 44V1-22402* *Approximate Please note that serial numbers vary concerning spacer or non spacer | Non Spacer Plated Turbocharged | | 306121* | 306122* | 306123* |
| * Order Aftercooler Gasket Kit Separately if Required | | | | | | | |
| D7G | 3306 | 3N79763-Up 44V22403-Up* 62Z1-Up *Approximate Please note that serial numbers vary concerning spacer or non spacer | Spacer Plated Turbocharged P.C. | | 306021 | 306022* | 306023* |

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|--|-------|--|--|--------------------------|----------------------|---------------------|
| D7G | 3306 | 8Z1-26213 | Spacer Plated Turbocharged D.I. Engine * Order Aftercooler Gasket Kit Separately if Required | 306281* | 306282* | 306283* |
| D7H | 3306 | 8Z26214-Up | Spacer Plated Turbocharged D.I. Engine * Order Aftercooler Gasket Kit Separately if Required | 306281* | 306282* | 306283* |
| D7R | 3176C | ABJ1-Up ACS1-Up ADW1-Up AEC1-Up AFG1-Up AGN1-Up BNM1-Up BNX1-Up BPK1-Up BPT1-Up BRP1-Up BRM1-Up | 7ZR1-Up STRAIGHT HEAD GASKET | 176011STRNLS | 176012STRNLS | 176013STR |
| D8H | D342 | 36A1-4468 46A1-10724 68A1-10724 | Non Spacer Plated Turbocharged * Note: Rear Crankshaft Seal Not Included Single Head Replacement Set | 342021* | 342022 | 342023 342024 |
| D8H | D342 | 36A4469-Up 46A10725-Up | Non Spacer Plated With T-12 or T-18 * Note: Rear Crankshaft Seal Not Included Single Head Replacement Set | 342031* | 342032 | 342033 |
| D8K | D342 | 76V1-600 77V1-8528 | 17S1-Up 50V1-Up Non Spacer Plated Turbocharger * Note: Rear Crankshaft Seal Not Included Single Head Replacement Set | 342011* | 342012 | 342013 |
| D8K | D342 | 76V601-Up 77V8529-Up | 17S1-Up 50V1-Up Spacer Plated Turbocharger * Note: Rear Crankshaft Seal Not Included Single Head Replacement Set | 342041* | 342042 | 342043 342014 |
| D8L | 3408 | 53Y1-Up 7JC1-Up 7YB1-Up | 48W13008-17791 77M1-Up Non Aftercooled Turbocharged | 408151 | | |
| D8L | 3408 | 4FB 1-Up | 48W17792-Up Aftercooled Turbocharged | 408021 | 408022 | 408023 |
| D8N | 3406 | 9TC1-Up 1XJ1-Up | 70V24187-Up 11N1-Up Non Aftercooled W/24 Bolt Flywheel Housing Fuel Pump Installation Set | 406071 | 406072 | 406073 406039 |
| D8N | 3406 | 5TJ 1-Up | 11N4939-Up Non Aftercooled W/24 Bolt Flywheel Housing Fuel Pump Installation Set | 406391 | 406392 | 406393 406039 |
| D8N | 3406 | 7TK 1-Up | 11N7050-Up Aftercooled W/19 Bolt Flywheel Housing Fuel Pump Installation Set | 406191 | 406192 | 406193 406039 |
| D8R | 3406 | 7XM1-Up 9EM1-Up | 11N12940-Up 41Z286-Up Aftercooled W/24 Bolt Flywheel Housing Fuel Pump Installation Set | 406391 | 406392 | 406393 406039 |
| D8R | 3406E | AKA1-Up 6YZ1-Up | BET1-Up Spacer Plated Turbocharged Engine | 406401 | 406402 | 406403 |

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|--|-------|--|----------------------------|---|--------------------------|----------------------|---------------------|
| D8T | C15 | J8B1-Up KBZ1-Up | LHX1-Up | Single Lip Rear Seal Includes Fuel Injector Seal Exhaust Manifold Gaskets Not Included | C15071NLS | C15072NLS | C15073 |
| D8T | C15 | FACT1-Up MLN1-Up | TXL1-Up | Double Lip Rear Seal Includes Fuel Injector Seal Exhaust Manifold Gaskets Not Included | C15091NLS | C15092NLS | C15093 |
| D9G | D353 | 66A 1-1644 | | Non Spacer Plated P.C. Engine | 353111 | 353112 | 353113 |
| D9G | D353 | 66A 1645-Up | | Non Spacer Plated P.C. Engine | 353121 | 353122 | 353123 |
| D9H | D353 | 90V1-Up 97V1-Up 98V1-Up 98V1-Up | 97U1-7921 | Non Spacer Plated P.C. Engine | 353131 | 353132 | 353133 |
| | | | | Single Head Replacement Set | | | 353134 |
| D9H | D353 | 90V1-Up 97V1-Up 98V1-Up 98V1-Up | 97U7922-Up | Spacer Plated P.C. Engine | 353011 | 353012 | 353013 |
| | | | | Single Head Replacement Set | | | 353014 |
| D9L | 3412 | 14Y 1-Up | 73W1224-Up | D.I. Engine | 412041 | | |
| D9N | 3408 | 1JD1-Up 6XJ1-Up | 48W23086-Up 48W35650-Up | D.I. Engine | 408131 | 408132 | 408133 |
| D9R | 3408 | 7TL1-Up 8BL1-Up | 99C1-Up 48W1-Up | | 408381 | | 408363 |
| | | | | HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included | | | |
| D9T | 3408E | 7TL1-Up ABK1-Up ACL1-Up | 5XD1-Up | | 408111NLS | 408112NLS | 408113 |
| D9T | C18 | RJS1-Up | RHX1-Up | Does Not Include Exhaust Manifold Gaskets Includes Fuel Injector Seals | C18001NLS | C18002NLS | C18003 |
| D9T | C18 | TWG1-Up | TXW1047-Up | Injector Seals Included | C18181NLS | C18182NLS | C18183 |
| D10 | D348 | 84W1-609 76X1-363 | 98S1-1454 | Head Gasket Not Included | 348031WOHGNLS | | |
| | | | | Single Head Replacement Set - Head Gasket Not Included | | | 348044WOHG |
| | | | | Cylinder Block Repair Shim Set | | | 348099 |
| D10 | D348 | 84W610-Up 76X364-Up | 98S1455-Up | | 348041WOHGNLS | | |
| | | | | Single Head Replacement Set - Head Gasket Not Included | | | 348044WOHG |
| | | | | Cylinder Block Repair Shim Set | | | 348099 |
| D10N | 3412 | 2YD 1-Up | 73W8338-Up | D.I. Engine | 412071 | 412072 | 412073 |
| | | | | Single Head Replacement Set | | | 412074 |
| D10N | 3412E | 3SK1-Up 2YD1-Up | 5JJ4562-Up | DOES NOT INCLUDE 8 OF 1007401 EXHAUST MANIFOLD SEGMENT SEAL OR AFTERCOOLER GASKETS | IN DEVELOPMENT | | |
| D10N | 3412 | BCR1-Up | 5JJ4562-Up | D.I. Engine | 412021NLS | 412022NLS | 412023 |
| D10R | 3412 | 3KR 1-Up | 80M1-Up | | 412371 | | 412373 |
| | | | | HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included | | | 412374 |
| D10R | 3412E | AKT1-Up | 5JJ4562-Up | DOES NOT INCLUDE 8 OF 1007401 EXHAUST MANIFOLD SEGMENT SEAL OR AFTERCOOLER GASKETS | 412021NLS | 412022NLS | 412023 |
| D10T | C27 | RJG1-Up | EHX1-Up | | C27021NLS | C27022NLS | C27023 |
| D11N | 3508 | 74Z 1-Up | 99W1-Up | | 508011 | | 508013 |
| | | | | Single Head Replacement Set | | | 508014 |
| D11N | 3508 | 4HK 1-Up | 7YG203-Up | Single Lip Crankshaft Seals | 508021 | | 508023 |
| | | | | Single Head Replacement Set | | | 508024 |
| | | | | DOES NOT INCLUDE 6V6640 GASKET MAKER FOR REAR COVER | | | |
| D11R | 3508 | 8ZR 1-Up | 7YG1-Up | | | In Development | |

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|--|-------|--|---------------------------|---|--------------------------|----------------------|----------------------|
| D11R | 3508B | 7PZ1-Up 9TR1-Up 9XR1-Up | 2GR1-Up | EUI Engine Contains Single Lip Crankshaft Seals Single Head Replacement Set | 508121 | | 508123 508124 |
| D11T | C32 | AMA1-UP | WZH1-UP | | C32001NLS | C32002NLS | C32003 |
| D11T | C32 | WHH1-UP | JEL1-UP JNS1-UP | | C32011NLS | C32012NLS | C32013 |
| D11T | C32 | LJW1-UP | GEB1-UP | | C32111NLS | C32042NLS | C32043 |
| MOTOR GRADERS | | | | | | | |
| 12F | 3306 | 89H1-1537 13K1-5286 | | Non Spacer Plated Non Turbocharged | 306041 | 306042 | 306043 |
| 12F 12G | 3306 | | 3N1-79762 | Non Spacer Plated Non Turbocharged | 306031 | 306032 | 306033 |
| 12F 12G | 3306 | | 3N79763-Up | Spacer Plated Non Turbocharged | 306011 | 306012 | 306013 |
| 12G 12H | 3306 | 3WC1-Up 4ER1-Up 61M1-Up 8MN1-Up | 8Z1-Up | Spacer Plated Non Turbocharged | 306071 | 306072 | 306073 |
| 12G 12H | 3306 | 3WC1-Up 4ER1-Up 61M1-Up 8MN1-Up | 8Z1-Up | Spacer Plated Turbocharged | 306271 | 306272 | 306273 |
| 12G 12H | 3306 | 2WR1-Up 3PL1-Up | 8TD1-Up | | | In Development | |
| 12HES | 3306 | 2LR | 8Z1-Up | | | In Development | |
| 12HNS | 3306 | 4XM | 8Z1-Up | | | In Development | |
| 14E | 3306 | 72G1-1340 12K1-2198 | | Non Spacer Plated Turbocharged | 306151 | 306152 | 306153 |
| 14E 14G | 3306 | | 3N1-79762 | Non Spacer Plated Turbocharged | 306161 | 306162 | 306163 |
| 14E 14G | 3306 | | 3N79763-Up | Spacer Plated Turbocharged | 306021 | 306022 | 306023 |
| 14G 14H | 3306 | 96U1-Up 6WM1-Up 7WJ1-Up | 8Z1-Up | Spacer Plated Turbocharged | 306271 | 306272 | 306273 |
| * Order Aftercooler Gasket Kit Separately if Required | | | | | | | |
| 14H | 3176C | ASE 1-Up | 3PD 1-Up | STRAIGHT HEAD GASKET | 176021STRNLS | 176022STRNLS | 176023STR |
| 16 | D343 | 49G 1-Up | | | | In Development | |
| 16G | 3406 | 93U1179-2678 | 70V4105-Up | | 406241 | 406242 | 406243 |
| 16G | 3406 | 93U2679-Up | 70V36899-Up 11N1449-Up | DITA W/24 Bolt Flywheel Housing Fuel Pump Installation Set | 406341 | 406342 | 406343 406039 |
| 16H | 3406 | 6ZJ 1-Up | 11N13000-Up 41Z1-Up | DITA W/24 Bolt Flywheel Housing Fuel Pump Installation Set | 406341 | 406342 | 406343 406039 |
| 16M | C13 | R9H1-Up | MHX1-Up | Wet Rear Housing W/MLS (Multiple Layer Steel) Head Gasket | C13071NLS | C13072NLS | C13073 |
| 24M | C18 | B9K1-Up | RHX1-Up | Includes Fuel Injector Seal Exhaust Manifold Gaskets Not Included | C18111NLS | C18112NLS | C18113 |
| 112F | 3304 | 80J1-402 89J1-1895 | | Non Spacer Plated Non Turbocharged | 304131 | 304012 | 304013 |
| 112F | 3304 | 80J403-Up 89J1896-Up | | Non Spacer Plated Non Turbocharged | 304031 | 304032 | 304033 |
| 112F | 3304 | | 78P1-Up | Non Spacer Plated Non Turbocharged | 304031 | 304032 | 304033 |

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|--|-------|---|------------------------------|---------------------------------------|--------------------------|----------------------|---------------------|
| 120 | 3306 | 14K1-2263 10R1-2881 13U1-777 | | Non Spacer Plated Non Turbocharged | 306041 | 306042 | 306043 |
| 120 | 3306 | | 3N1-Up 47V1-Up 60Z1-Up | Non Spacer Plated Non Turbocharged | 306031 | 306032 | 306033 |
| 120G | 3304 | | 78P1-47087 | Non Spacer Plated Turbocharged | 304041 | 304042 | 304043 |
| 120G | 3304 | | 78P47088-Up | Spacer Plated Turbocharged | 304071 | 304072 | 304073 |
| 120G | 3304 | 87V1-Up 11W1-Up 4HD1-Up | 7Z1 Up 9CB1-Up | Spacer Plated Turbocharged | 304081 | 304082 | 304083 |
| 120H | 3116 | 5FM1-Up 6TM1-Up | 98Z1-Up | | 116031 | | 116023 |
| 120HES | 3116 | 6NM | 98Z1-Up | | 116031 | | 116023 |
| 120HNA | 3116 | 2AN1-Up 4MK1-Up | 98Z1-Up | | 116031 | | 116023 |
| 130G | 3304 | | 78P1-47087 | Non Spacer Plated Turbocharged | 304041 | 304042 | 304043 |
| 130G | 3304 | | 78P47088-Up | Spacer Plated Turbocharged | 304071 | 304072 | 304073 |
| 130G | 3304 | 74V1-Up 12W1-Up | 7Z1-Up | Spacer Plated Turbocharged | 304081 | 304082 | 304083 |
| 140 | 3306 | 11R1-1690 14U1-430 | | Non Spacer Plated Turbocharged | 306151 | 306152 | 306153 |
| 140G | 3306 | | 3N1-79762 | Non Spacer Plated Turbocharged | 306161 | 306162 | 306163 |
| 140G | 3306 | | 3N79763-Up | Spacer Plated Turbocharged | 306021 | 306022 | 306023 |
| 140G 140H | 3306 | 72V1-Up 13W1-Up 5HM1-Up 8KM1-Up 5MD1-Up | 8Z1-Up 8TD1-Up | Spacer Plated Turbocharged | 306271 | 306272 | 306273 |
| 140H | 3176C | CCA1-Up APM1-Up | 3PD1-Up | Straight Head Gasket | 176021STRNLS | 176022STRNLS | 176023STR |
| 140HES | 3306 | 3AS1-Up | 8TD | | | In Development | |
| 140HNA | 3306 | 2ZK1-Up 9TN1-Up | 8Z1-Up | | | In Development | |
| 143HNA | 3306 | 1AI1-Up | 8Z1-Up | | | In Development | |
| 143H | 3176C | APN 1-Up | 3PD 1-Up | STRAIGHT HEAD GASKET | 176021STRNLS | 176022STRNLS | 176023STR |
| 160G | 3306 | 4JD1-Up | 8Z1-Up | | | In Development | |
| 160H | 3306 | 2FM1-Up 3GM1-Up | 8Z1-Up | | | In Development | |
| 163HNA | 3306 | 5AK1-Up | 8Z1-Up | | | In Development | |
| 160HES | 3306 | 2HS1-Up | 8TD1-Up | | | In Development | |
| 160H | 3306 | 2FM1-Up 3GM1-Up | 8Z1-Up | | | In Development | |
| 160H | 3176C | ASD1-Up CCP1-Up | 3PD 1-Up | Straight Head Gasket | 176021STRNLS | 176022STRNLS | 176023STR |
| 160M | C9 | B9L1-Up B9T1-Up | THD1-Up THX1-Up | | C90121NLS | C90122NLS | C90123 |
| 163H | 3176C | ARL 1-Up | 3PD 1-Up | Straight Head Gasket | 176021STRNLS | 176022STRNLS | 176023STR |

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | | | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE |
|--|--------|--|-------------------------------------|--|---|----------------------|---------------------|
| EXCAVATORS | | | | | | | |
| 205B | 3114 | 5ZF1-Up | 2FG1-Up | Dry Rear Housing | 114021 | 114012 | 114013 |
| 206B | 3114 | 9FB1-Up | 2FG1-Up | Dry Rear Housing | 114021 | 114012 | 114013 |
| 211B | 3114 | 6XG1-Up | 2FG1-Up | Dry Rear Housing | 114021 | 114012 | 114013 |
| 212B | 3114 | 3PJ1-Up | 2FG1-Up | Dry Rear Housing | 114021 | 114012 | 114013 |
| 213B | 3116 | 1EJ 1-Up | 4TF1-Up | | 116031 | | 116023 |
| 214B | 3116 | 4CF 1-Up | 4TF1-Up | | 116031 | | 116023 |
| 214BFT | 3116 | 9MF 1-Up | 4TF1-Up | | 116031 | | 116023 |
| 215 | 3304 | 96L 1-Up | 48V20897-Up | Non Turbocharged | 304121 | | |
| 215 | 3204 | 57Y857-Up 14Z649-Up 61Z139-Up | 10X1-Up 10X5411-Up 10X5411-Up | Turbocharged | 204051 | 204052 | 204053 |
| 215B | 3304 | 9YB 1-Up | 12Z6564 -Up | Spacer Plated Turbocharged D.I. Engine | 304091 | 304092 | 304093 |
| 215B | 3204 | 2XC1-Up 3LC1-Up | 45V35841-Up | Turbocharged | 204051 | 204052 | 204053 |
| 215C | 3304 | 4HG 1-Up | 12Z1-Up | | 304091 | | |
| 219 | 3304 | 5CF1-Up | 12Z1-Up | | 304091 | | |
| 219D | 3304 | 5XG 1-Up | 12Z1-Up | | 304091 | | |
| 224B | 3116 | 7WF 1-Up | 4TF1-Up | | 116031 | | 116023 |
| 225 | 3160 | 51U1-2831 61X1-380 | 79V1-4926 | Non Turbocharged | 160021 | 160022 | 160023 |
| 225 | 3208NA | 51U2832-Up 61X381-Up | 79V4927-Up | Non Turbocharged | 208061 | 208062 | 208063 |
| 225 | 3304 | 76U1-3764 | 48V1-Up | Non Spacer Plated Turbocharged P.C. Engine | 304041 | 304042 | 304043 |
| 225B | 3304 | 3YD 1-Up | 12Z1-Up | | 304091 | | |
| 225DLC | 3304 | 6RG 1-Up | 12Z1-Up | | 304091 | | |
| 229 | 3304 | 1AG 1-Up | 12Z1-Up | | 304091 | | |
| 229D | 3304 | 2LJ 1-Up | 12Z1-Up | | 304091 | | |
| 231D | 3208 | 1NK1-Up 5WJ1-Up | 79V1-Up | | 208061 and 6V8045 Turbo Mounting kit | | |
| 235 | 3306 | 64R1-1257 | 3N1-79762 49V1-24220 | Non Spacer Plated Turbocharged P.C. Engine | 306161 | 306162 | 306163 |
| 235 | 3306 | | 3N79763-Up | Spacer Plated Turbocharged P.C. Engine | 306021 | 306022 | 306023 |
| 235 | 3306 | 32K1-2677 64R1258-Up 62X289-Up 91X408-Up 83X444-Up | 8Z1-Up 13Z1-Up | Spacer Plated Turbocharged D.I. Engine | 306431 | 306432 | 306433 |
| * Order Aftercooler Gasket Kit Separately if Required | | | | | | | |
| 235B | 3306 | 1FD1-Up 4ED1-Up 7WC1-Up 9PC1-Up | 8Z30441-41869 13Z10595-15162 | Spacer Plated Turbocharged D.I. Engine . | 306431 | 306432 | 306433 |
| * Order Aftercooler Gasket Kit Separately if Required | | | | | | | |
| 235C | 3306 | 2PG1-Up 3WG1-Up 4DG1-Up 5AF1-Up | 8Z41870-Up 13Z15163-Up | Spacer Plated Turbocharged D.I. Engine | 306431* | 306432* | 306433* |
| * Order Aftercooler Gasket Kit Separately if Required | | | | | | | |

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | | | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE |
|--|------|---|-------------------------------|--|--------------------------|----------------------|---------------------|
| 235D | 3306 | 8KJ 1-Up | 8Z1-Up | | 306431 | 306432 | 306433 |
| * Order Aftercooler Gasket Kit Separately if Required | | | | | | | |
| 235D | 3306 | 8TJ1-Up | 13Z1-Up | | 306421 | 306432 | 306433 |
| 245 | 3406 | 95V731-Up 82X475-Up 84X4751-Up | 70V4578-Up | Spacer Plated Turbocharged P.C. or D.I Engines Fuel Pump Installation Set | 406091 | 406092 | 406093 |
| 245B | 3406 | 1SJ1-Up 6MF1-Up | 70V26356-Up | Spacer Plated Turbocharged Fuel Pump Installation Set | 406181 | 406182 | 406183 |
| 245B | 3406 | 1SJ713-Up 6MF513-Up | 11N1-Up | Spacer Plated Turbocharged D.I. Engine Fuel Pump Installation Set | 406181 | 406182 | 406183 |
| 245D | 3406 | 4LK1-Up 7ZJ1-Up | 11N1-Up | Spacer Plated Turbocharged D.I. Engine Fuel Pump Installation Set | 406181 | 406182 | 406183 |
| 320 | 3116 | 4ZJ1-Up 7WK1-Up | 1CK1-Up 4TF1-Up | | 116031 | | 116023 |
| 320L | 3116 | 1TL1-Up 3XK1-Up | 1CK1-Up 4TF1-Up | | 116031 | | 116023 |
| 320N | 3116 | 9WG 1-Up | 4TF1-Up | | 116031 | | 116023 |
| 320S | 3116 | 6KM 1-Up | 4TF1-Up | | 116031 | | 116023 |
| 322 | 3116 | 7WL 1-Up | 1CK1-Up | | 116031 | | 116023 |
| 322B | 3116 | 3NR 1-Up | 1CK1-Up | | 116031 | | 116023 |
| 322BL | 3116 | 1YS1-Up 5CR1-Up | 98Z1-Up 1CK1-Up | | 116031 | | 116023 |
| 322L | 3116 | 8CL1-Up 8ML1-Up 9RL1-Up | 98Z1-Up 1CK1-Up 4TF1-Up | | 116031 | | 116023 |
| 322LN | 3116 | 4RM 1-Up | 4TF1-Up | | 116031 | | 116023 |
| 322N | 3116 | 9JL 1-Up | 4TF1-Up | | 116031 | | 116023 |
| 324D | C7 | A3R 1-Up BYS 1-Up | C7C 1-Up | | | C70082 | C70083 |
| 324D | C7 | BFC1-Up C3N1-Up EDF1-Up EJC1-Up | C7C 1-Up | | | C70062 | C70063 |
| 324D | C7 | CJX1-Up DFP1-Up TSN1-Up AZP1-UP DBH1-Up ERK1-Up KBE1-Up KDG1-Up T2S1-Up BYS1-Up DFJ1-Up MNB1-Up RSK1-Up | KHX1-Up | | | C70072 | C70073 |
| 324D | C7 | LAL1-Up TPM1-Up | C7C1-Up KHX1-Up | | | C70072 | C70073 |

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|--|------|---|-------------------------------|--------------------------|----------------------|---------------------|
| 324D | C7 | AZP1-Up BFC1-Up BZW1-Up C3N1-Up C4H1-Up C8L1-Up C9M1-Up | KHX 1-Up | | C70082 | C70083 |
| 325 | 3116 | 6RM1-Up 7TG1-Up 8JG1-Up 8NL1-Up 8YK1-Up 9SG1-Up | 98Z1-Up 1CK1-Up 4TF1-Up | 116031 | | 116023 |
| 325B | 3116 | 8GM1-Up 8PR1-Up | 4TF1-Up | 116031 | | 116023 |
| 325BL | 3116 | 1GS1-Up 2JR1-Up 7EN1-Up 8RR1-Up | 98Z1-Up 4TF1-Up | 116031 | | 116023 |
| 325D | C7 | GBR1-Up GBP1-Up KAY1-Up KRJ1-Up MCL1-Up PKE1-Up | C7C 1-Up | | C70062 | C70063 |
| 325D | C7 | DBH1-Up JZR1-Up KBE1-Up KDG1-Up KGG1-Up LAB1-Up LAL1-Up LGN1-Up MKR1-Up MNB1-Up SCR1-Up TSN1-Up | C7C 1-Up | | C70082 | C70083 |
| 325D | C7 | DBH1-Up DJF1-Up EBM1-Up GBP1-Up JCL1-Up GBR1-Up JGK1-Up JHJ1-Up JG1-Up SCY1-Up SRC1-Up T2D1-Up TPM1-Up TSN1-Up | KHX1-Up | | C70082 | C70083 |
| 325L | 3116 | 2JK1-Up 2SL1-Up 7CJ1-Up 7LJ1-Up 7LM1-Up 8NK1-Up | 98Z1-Up 1CK1-Up 4TF1-Up | 116031 | | 116023 |

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | | | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE |
|--|------|--|---------------------|---|--------------------------|----------------------|---------------------|
| 325LN | 3116 | 2SK1-Up 3LL1-Up | 4TF1-Up | | 116031 | | 116023 |
| 328D | C7 | C3N1-Up | KHX 1-Up | | | C70082 | C70083 |
| 329D | C7 | SCY1-Up SRC1-Up SYM1-Up | C7C 1-Up | | | C70062 | C70063 |
| 329D | C7 | TRH 1-Up | C7C1-Up KHX1-Up | | | C70062 | C70063 |
| 329D | C7 | C7K1-Up H3N1-Up JKR1-Up WDK1-Up XDB1-Up | KHX 1-Up | | | C70082 | C70083 |
| 329D | C7 | GPB1-Up NAC1-Up PAL1-Up PKE1-Up RJK1-Up WDK1-Up | C7C 1-Up | | | C70082 | C70083 |
| 330 | 3306 | 6ZK1-Up 8RL1-Up 9NG1-Up 9PJ1-Up 9WJ1-Up | 10Z1-Up | | | In Development | |
| 330BL | 3306 | JCM1-Up KBC1-Up KGB1-Up KKK1-Up MMA1-Up MNZ1-Up SBE1-Up T2E1-Up T2F1-Up WAW1-Up | 8Z1-Up | * Order Aftercooler Gasket Kit Separately if Required | 306431 | | |
| 330C | C9 | B1K1-Up CAP1-Up JCD1-Up JNK1-Up MKM1-Up | 4ZF1-Up SAN1-Up | | C90021NLS | C90022NLS | C90023 |
| 330C | C9 | B2L1-Up B3M1-Up B4N1-Up DKY1-Up KDD1-Up | 4ZF1--Up THY1-Up | - | C90051NLS | C90052NLS | C90053 |
| 330D | C9 | B6H1-Up MWP1-Up H3D1-Up JLP1-Up LRM1-Up MAG1-Up MEY1-Up NBD1-Up | THX1-Up THY1-Up | | C90041NLS | C90042NLS | C90043 |

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|---|-------|--|--------------------|--|----------------------|----------------------------------|
| 330D | C9 | D3D1-Up ERN1-Up GGE1-Up PCL1-Up RAS1-Up THJ1-Up | 4ZF1-Up THY1-Up | C90051NLS | C90052NLS | C90053 |
| 330D 330L | C9 | EAH1-Up FFK1-Up T2Y1-Up | THX1-Up | C90061NLS | C90062NLS | C90063 |
| 350 350L | 3306 | 8HK1-Up 9FL1-Up | 8Z1-Up | 306431 | 306432 | 306433 |
| Note: Rear Housing liquid gasket maker is Not included * Order Aftercooler Gasket Kit Separately if Required | | | | | | |
| 350 350L | 3306 | 8HK1-Up 9FL1-Up | 13Z1-Up | 306431 | 306432 | 306433 |
| Note: Rear Housing liquid gasket maker is Not included * Order Aftercooler Gasket Kit Separately if Required | | | | | | |
| 375 375L | 3406C | 1JM1-Up 6Nk1-Up 8WJ1-Up 9WL1-Up | 11N1-Up 41Z1-Up | 406181 | 406182 | 406183 |
| | | | | | | Fuel Pump Installation Set |
| | | | | | | 406039 |
| 385C | C18 | EAM1-Up EDA1-Up GLT1-Up | RHX1-Up | Includes Fuel Injector Seal Exhaust Manifold Gaskets Not Included | | C18121NLS C18122NLS C18123 |
| 5080 | 3406 | 6XK1-Up 8SL1-Up | 11N1-Up | | | In Development |
| | | | | | | Fuel Pump Installation Set |
| | | | | | | 406039 |
| 5130 | 3508 | 5ZL1-Up 7TJ1-Up | 7YG1-Up | | | In Development |
| 5130B | 3508B | 4CS 1-Up | 2GR1-Up | EUI Engine Non-ceramic Exhaust Manifolds Single Head Replacement | 508121 | 508123 |
| | | | | | | 508124 |
| 5230 | 3516 | 7LL1-Up | 2PK1-Up | | | In Development |
| E110B | 3114 | 5GK1-Up 8MF1-Up | 2ZF1-Up | Dry Rear Housing | 114021 | 114012 114013 |
| E120B | 3114 | 4XF1-Up 6JF1-Up | 2ZF1-Up | Dry Rear Housing | 114021 | 114012 114013 |
| E200B | 3116 | 6KF 1-Up | 4TF1-Up | | | 116031 116023 |
| EL200B | 3116 | 7FD 1-Up | 4TF1-Up | | | 116031 116023 |
| E240B | 3116 | 8SF1-Up 9PF1-Up | 1CK1-Up | | | 116031 116023 |
| EL240B | 3116 | 5WG1-Up 6MG1-Up | 1CK-1-Up | | | 116031 116023 |
| E240C | 3116 | 2RL 1-Up | 1CK1-Up | | | 116031 116023 |
| EL240C | 3116 | 9PK1-Up | 1CK1-Up | | | In Development |
| E300 | 3306 | 2CF101-Up | 10Z-9394-Up | Spacer Plated Turbocharged D.I. Engine * Order Aftercooler Gasket Kit Separately if Required | 306431* | 306432* 306433* |
| E300B | 3306 | 1WJ 1-Up | 10Z16955-Up | Spacer Plated Turbocharged D.I. Engine * Order Aftercooler Gasket Kit Separately if Required | 306431* | 306432* 306433* |

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|--|-------|---|--|--|--------------------------|----------------------|---------------------|
| EL300 | 3306 | 4NF101-Up | 10Z9394-Up | Spacer Plated Turbocharged D.I. Engine * Order Aftercooler Gasket Kit Separately if Required | 306431* | 306432* | 306433* |
| EL300B | 3306 | 3FJ 1-Up | 10Z16955-Up | Spacer Plated Turbocharged D.I. Engine * Order Aftercooler Gasket Kit Separately if Required | 306431* | 306432* | 306433* |
| 345B | 3176C | 2NW1-Up 2SW1-Up 2ZW1-Up 3MW1-Up 4SS1-Up 5WS1-Up 6XS1-Up 7KS1-Up 9GS1-Up AKJ1-Up AKX1-Up ALB1-Up ALD1-Up ANJ1-Up BFG1-Up APG1-Up DCW1-Up DET1-Up FEE1-Up CCC1-Up CDJ1-Up | 7ZR1-Up | Straight Style Head Gasket | 176001STRNLS | 176002STRNLS | 176003STR |
| 345B | 3176C | 2NW1-Up 2SW1-Up 2ZW1-Up 3MW1-Up 4SS1-Up 5WS1-Up 6XS1-Up 7KS1-Up 9GS1-Up AKJ1-Up AKX1-Up ALB1-Up ALD1-Up ANJ1-Up BFG1-Up APG1-Up DCW1-Up DET1-Up FEE1-Up CCC1-Up CDJ1-Up | 7ZR1-Up | Scalloped Style Head Gasket | 176001SCLNLS | 176002SCLNLS | 176003SCL |
| 345D | C13 | EEH1-UP RAJ1-UP | MHX1-UP | (Wet) Double Lip Rear Seal With MLS (Multiple Layer Steel) Head Gasket | C13091NLS | C13092NLS | C13093 |
| BACKHOE LOADER | | | | | | | |
| 446 | 3114 | 6XF1-Up | 2FG1-Up | Dry Rear Housing | 114021 | 114012 | 114013 |
| 446B | 3114 | 5BL1-Up | 97Z1-Up 2FG1-Up | Dry Rear Housing | 114021 | 114012 | 114013 |
| 446B | 3114 | 5BL1-2499 | 4RR1-Up | Dry Rear Housing | 114021 | 114012 | 114013 |
| 446D | 3114 | DBL1-Up | 2FG1-Up | Dry Rear Housing | 114021 | 114012 | 114013 |
| SKIDDERS | | | | | | | |
| 518 | 3304 | 50S1-956 55U1-151 | | Non Spacer Plated Turbocharged P.C. Engine | 304021 | 304022 | 304023 |
| 518 | 3304 | | 78P1-47087 | Non Spacer Plated Turbocharged P.C. Engine | 304041 | 304042 | 304043 |
| 518 | 3304 | | 78P47088-Up | Spacer Plated Turbocharged P.C. Engine | 304071 | 304072 | 304073 |
| 518 518C | 3304 | 94U192499 95U1-3199 | 7Z 1-22263 | Spacer Plated Turbocharged D.I. Engine | 304081 | 304082 | 304083 |
| 518 518C | 3304 | 94U2500-Up 95U3200-Up 1CL1-Up 9HJ1-Up | 7Z22264-Up 7Z22264-Up 7Z28000-Up 7Z28000-Up | Spacer Plated Turbocharged D.I. Engine | 304111 | 304082 | 304083 |
| 525 | 3304 | 1DN 1-Up | 7Z1-Up | | 304081 | 304082 | 304083 |

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|--|-------------------------|-------------------------------|--------------------|--|--------------------------|----------------------|---------------------|
| 528 | 3306 | 51S 1-67 | | Non Spacer Plated Turbocharged P.C. Engine | 306151 | 306152 | 306153 |
| 528 | 3306 | | 3N1-79762 | Non Spacer Plated Turbocharged P.C. Engine | 306161 | 306162 | 306163 |
| 528 | 3306 | | 3N79763-Up | Spacer Plated Turbocharged P.C. Engine | 306021 | 306022 | 306023 |
| 528 | 3306 | 96C1-Up 97C1-Up 78W1-Up | 8Z1-Up | Spacer Plated Turbocharged D.I. Engine | 306271 | 306272 | 306273 |
| PIPELAYERS | | | | | | | |
| 561C | 3306 | 92J 1-390 | | Non Spacer Plated Non Turbocharged P.C. Engine | 306041 | 306042 | 306043 |
| 561C 561D | 3306 | | 3N1-79762 | Non Spacer Plated Non Turbocharged P.C. Engine | 306031 | 306032 | 306033 |
| 561C 561D | 3306 | | 3N79763-Up | Spacer Plated Non Turbocharged P.C. Engine | 306011 | 306012 | 306013 |
| 561D | 3306 | 54X 1-Up | 8Z1-Up | Spacer Plated Non Turbocharged D.I. Engine | 306071 | 306072 | 306073 |
| 571F 572F | 3306 | 95N1-192 96N1-178 | | Non Spacer Plated Non Turbocharged P.C. Engine | 306041 | 306042 | 306043 |
| | | | | Rear P.T.O. Gasket Set | | | 306289 |
| 571F 571G 572F 572G | 3306 | | 3N1-79762 | Non Spacer Plated Turbocharged P.C. Engine | 306121 | 306122 | 306123 |
| | | | | Rear P.T.O. Gasket Set | | | 306289 |
| 571F 571G 572F 572G | 3306 | | 3N79763-Up | Spacer Plated Turbocharged P.C. Engine | 306021 | 306022 | 306023 |
| | | | | Rear P.T.O. Gasket Set | | | 306289 |
| 571F 571G 572F 572G | 3306 | 40U1-Up 5ZD1-Up | 8Z1-Up | Spacer Plated Turbocharged D.I. Engine | 306281 | 306282 | 306283 |
| | | | | Rear P.T.O. Gasket Set | | | 306289 |
| | | | | * Order Aftercooler Gasket Kit Separately if Required | | | |
| 583K | D342 | 78V1-Up | 17S1-Up | | | | 342043 |
| 589 | 3408 | 31Z 1-Up | 48W1-Up | | 408141 | | |
| 594H | D353 | 96V1-Up | 97U1-97U7921 | | 353131 | | |
| 600 SERIES WHEEL TRACTORS AND SCRAPERS | | | | | | | |
| 613 | 3160 Front Engine | 71M1-4125 | 98M1-Up | Non Turbocharged Engine | 160021 | 160022 | 160023 |
| 613B | 3160 Front Engine | 38W1-5538 | 79V1-5380 | Non Turbocharged Engine | | 208012 | 208013 |
| 613B | 3208 Front Engine | 38W 5539-Up | 79V5381-Up | Non Turbocharged Engine | 208011 | 208012 | 208013 |

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|--|-------------------------|-------------------------------|--------------------------|---|--------------------------|----------------------|---------------------|
| 613C | 3116 Front Engine | 93X2780-Up | 98Z1-Up | | 116021 | | 116023 |
| 613C | 3116 Front Engine | 8LJ1-Up 9FM1-Up | 4TF1-Up | | 116021 | | 116023 |
| 615 | 3306 Front Engine | 46Z 1-Up | 8Z1-Up | | 306421* | 306062* | 306063* |
| * Order Aftercooler Gasket Kit Separately if Required | | | | | | | |
| 615C | 3306 Front Engine | 5TF1-Up 9XG1-Up 2XG1-Up | 8Z1-Up 6NC1-Up | | 306421* | 306062* | 306063* |
| * Order Aftercooler Gasket Kit Separately if Required | | | | | | | |
| 621B | 3406 Front Engine | 45P 1-Up | 70V3145-Up | Spacer Plated Turbocharged Engine | 406161 | 406162 | 406163 |
| 621E | 3406 Front Engine | 6AB1-Up 2PD1-Up | 70V22151-Up 11N1-7399 | Spacer Plated Turbocharged Engine W/19 Bolt Flywheel Housing Fuel Pump Installation Set | 406251 | 406252 | 406253 406039 |
| 621F | 3406 Front Engine | 4SK1-Up 8PI1-Up | 11N7400-Up 41Z469-Up | Spacer Plated Turbocharged Engine W/24 Bolt Flywheel Housing Fuel Pump Installation Set | 406351 | 406352 | 406353 406039 |
| 621G | 3406E | ALP1-Up CEN1-Up | BET1-Up | Spacer Plated Turbocharged Engine | 406321 | 406322 | 406323 |
| 623B | 3406 Front Engine | 46P 1-Up | 70V3145-Up | Spacer Plated Turbocharged Engine | 406161 | 406162 | 406163 |
| 623E | 3406 Front Engine | 6CB1-Up 6YF1-Up 7CG1-Up | 70V22151-Up 11N1-Up | Spacer Plated Turbocharged Engine W/19 Bolt Flywheel Housing Fuel Pump Installation Set | 406251 | 406252 | 406253 406039 |
| 623F | 3406 Front Engine | 6BK 1-Up | 11N7400-Up 41Z504-Up | Spacer Plated Turbocharged Engine W/24 Bolt Flywheel Housing Fuel Pump Installation Set | 406351 | 406352 | 406353 406039 |
| 623G | 3406E | ARW1-Up CES1-Up | BET1-Up | Spacer Plated Turbocharged Engines | 406361 | 406362 | 406363 |
| 627 | 3306 Front Engine | 54K1-842 68M1-789 | | Non Spacer Plated Turbocharged P.C. | 306131* | 306132* | 306133* |
| | 3306 Rear Engine | 50K1-Up 69M1-789 | | Non Spacer Plated Turbocharged P.C. * Order Aftercooler Gasket Kit Separately if Required | 306131* | 306132* | 306133* |
| 627 627B | 3306 Front Engine | 14S1-Up 15S1-Up | 3N1-79762 | Non Spacer Plated Turbocharged P.C. | 306141 | 306142* | 306143* |
| | 3306 Rear Engine | 37V1-Up 38V1-Up | 3N1-79762 | Non Spacer Plated Turbocharged P.C. * Order Aftercooler Gasket Kit Separately if Required | 306141 | 306142* | 306143* |

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|--|-------------------------|--|--------------------|--|--------------------------|----------------------|---------------------|
| 627 627B | 3306 Front Engine | 14S1-Up 15S1-Up | 3N79763-Up | Spacer Plated Turbocharged P.C. | 306021 | 306022* | 306023* |
| | 3306 Rear Engine | 37V1-Up 38V1-Up | 3N79763-Up | Spacer Plated Turbocharged P.C. | 306021 | 306022* | 306023* |
| 627B | 3306 Front Engine | 14S1-Up 15S1-Up | 8Z1-Up | Spacer Plated Turbocharged D.I. | 306421* | 306062* | 306063* |
| | 3306 Rear Engine | 37V1-Up 38V1-Up | 8Z1-Up | Spacer Plated Turbocharged D.I. * Order Aftercooler Gasket Kit Separately if Required | 306421* | 306062* | 306063* |
| 627E | 3306 Front Engine | 6EB1-Up 6GB1-Up | 8Z33294-Up | Spacer Plated Turbocharged D.I. | 306411* | 306412* | 306413* |
| | 3306 Rear Engine | 6FB1-Up 6HB1-Up | 8Z33309-Up | Spacer Plated Turbocharged D.I. * Order Aftercooler Gasket Kit Separately if Required | 306421* | 306412* | 306413* |
| | 3406 Rear Engine | 6FB1-Up 6HB1-Up | 70V22150-Up | Spacer Plated Turbocharged D.I. Fuel Pump Installation Set | 406251 | 406252 | 406253 406039 |
| 627E | 3406 Front Engine | 7CG 1-Up | 70V33955-Up | Spacer Plated Turbocharged D.I. Fuel Pump Installation Set | 406251 | 406252 | 406253 406039 |
| | 3306 Rear Engine | 3WJ 1-Up | 8Z5900-Up | Spacer Plated Turbocharged D.I. * Order Aftercooler Gasket Kit Separately if Required | 306421* | 306412* | 306413* |
| 627F | 3406 Front Engine | 1DL1-Up 6BK1-Up | 11N7400-Up | Spacer Plated Turbocharged D.I. W/19 Bolt Flywheel Housing Fuel Pump Installation Set | 406251 | 406252 | 406253 406039 |
| | 3306 Rear Engine | 4YK1-Up | 8Z72000-Up | Spacer Plated Turbocharged D.I. * Order Aftercooler Gasket Kit Separately if Required | 306421* | 306412* | 306413* |
| 631 | 343 Front Engine | 67M 4581-Up | | Spacer Plated Turbocharged P.C. | 343071 | | |
| 631D | 3408 Front Engine | 24W 1-Up | 48W950-Up | | 408011 | 408012 | 408013 |
| | | | | Single Head Replacement Set | | | 408014 |
| 631E | 3408 Front Engine | 1AB1-1639 | 48W19968-Up | D.I. Engine | 408141 | 408142 | 408143 |
| 631E | 3408 Front Engine | 1AB1640-Up 1BB1540-Up 1NB1390-Up | 99C1-Up | | 408371 | | 408373 |
| 631E | 3408 Front Engine | 1NB390-Up | 77M1-Up | HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included | 408141 | | |

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | | | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE |
|---|--------------------------|---|--------------------|---|--------------------------|----------------------|---------------------|
| 631G | 3408E Front Engine | AWK1-Up | 5XD1-Up | | 408171NLS | 408112NLS | 408113 |
| 633 | 343 Front Engine | 66M1-Up | | Spacer Plated Turbocharged P.C. | 343071 | | |
| 633D | 3408 Front Engine | 25W1-Up | 48W950-Up | | 408011 | 408012 | 408013 |
| | | | | Single Head Replacement Set | | | 408014 |
| 633E | 3408E Front Engine | 2PS1-Up | 99C1-Up | | 408371 | | 408373 |
| HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included | | | | | | | |
| 637 | D343 Front Engine | 65M430-Up 79P527-Up | | Spacer Plated Turbocharged D.I. Engine | 343071 | | |
| | 3306 Rear Engine | 64M198-381 91N1-563 92N1-232 | | Non Spacer Plated Turbocharged P.C. Engine | 306131* | 306132* | 306133* |
| | | | | * Order Aftercooler Gasket Kit Separately if Required | | | |
| 637B 637D | 3408 Front Engine | | | | | In Development | |
| | 3306 Rear Engine | 20W1-Up 21W1-Up 22W1-Up 23W1-Up 26R1-Up | 3N1-79762 | Non Spacer Plated Turbocharged P.C. Engine | 306141 | 306142* | 306143* |
| | | | | * Order Aftercooler Gasket Kit Separately if Required | | | |
| 637B 637D | 3408 Front Engine | | | | | In Development | |
| | 3306 Rear Engine | 20W1-Up 21W1-Up 22W1-Up 23W1-Up 26R1-Up | 3N79763-Up | Spacer Plated Turbocharged P.C. Engine | 306021 | 306022* | 306023 |
| 637D | 3408 Front Engine | 26W1-Up 27W1-Up | 48W950-Up | | 408011 | 408012 | 408013 |
| | | | | Single Head Replacement Set | | | 408014 |
| | 3306 Rear Engine | 20W1-Up 21W1-Up 22W1-Up 23W1-Up 4JB1-Up | 8Z1-Up | Spacer Plated Turbocharged D.I. Engine | 306421* | 306412* | 306413* |
| | | | | * Order Aftercooler Gasket Kit Separately if Required | | | |
| 637E | 3408 Front Engine | 1FB1-659 1JB1-Up | 48W19968-Up | D.I. Engine | 408141 | 408142 | 408143 |
| | | 1FB1-Up 7CB1-Up | 99C1-Up | | 408371 | | 408373 |
| | | | | HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included | | | |
| | 3306 Rear Engine | 1HB1-Up 1LB1-Up 7CB1-Up | 8Z1-Up | Spacer Plated Turbocharged D.I. Engine | 306421* | 306412* | 306413* |
| | | | | * Order Aftercooler Gasket Kit Separately if Required | | | |

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | | | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE |
|--|--------------------------|-------------------------------|--------------------|---|--------------------------|----------------------|---------------------|
| 637F | C18 | DFG1-Up | RHX1-Up | Does Not Include Exhaust Manifold Gaskets Includes Fuel Injector Seals | C18021NLS | C18022NLS | C18023 |
| 637G | 3408E | AXT1-Up | 5XD1-Up | | 408171NLS | 408112NLS | 408113 |
| 639D | 3408 Front Engine | 99X1-Up | 48W950-Up | | 408011 | 408012 | 408013 |
| | | | | Single Head Replacement Set | | | 408014 |
| 641B | D346B Front Engine | 65K1-Up | | 60 Degree V Engine | 346011WOHGNLS | | 346013WOHG |
| | | | | Single Head Replacement Set | | | 346014WOHG |
| | | | | Fuel System Rebuild Set | | | 346009 |
| | | | | Cyl Block Repair Shim Set | | | 346099 |
| 650B | D346B Front Engine | 58K1-Up | | 60 Degree V Engine | 346011WOHGNLS | | 346013WOHG |
| | | | | Single Head Replacement Set | | | 346014WOHG |
| | | | | Fuel System Rebuild Set | | | 346009 |
| | | | | Cyl Block Repair Shim Set | | | 346099 |
| 651B | D346B Front Engine | 67K1-Up | | 60 Degree V Engine | 346011WOHGNLS | | 346013WOHG |
| | | | | Single Head Replacement Set | | | 346014WOHG |
| | | | | Fuel System Rebuild Set | | | 346009 |
| | | | | Cyl Block Repair Shim Set | | | 346099 |
| 651E | 3412 Front Engine | 89Z1-Up | 73W4208-Up | | 412081 | 412082 | 412083 |
| 651E | 3412 | 4YR1-Up 5XR1-Up | 80M1-Up | | 412371 | | 412373 412374* |
| | | | | HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included | | | |
| 657B | D346B Front Engine | 68K1-Up | | 60 Degree V Engine | 346011WOHGNLS | | 346013WOHG |
| | | | | Single Head Replacement Set | | | 346014WOHG |
| | | | | Fuel System Rebuild Set | | | 346009 |
| | | | | Cyl Block Repair Shim Set | | | 346099 |
| | D343 Rear Engine | 47M91-Up 53K638-Up | 52K1-Up | Spacer Plated Engine | 343031* | | 343033 |
| | | | | * Contains 5S3903 Silicone Lip Rear Crankshaft Seal Only | | | |
| | | | | Fuel System Rebuild Set | | | 343059 |
| 657E | 3412 Front Engine | 90Z1-Up 91Z1-Up | 73W3857-Up | | 412081 | 412082 | 412083 |
| | 3408 Rear Engine | 86Z1-Up | 48W19999-Up | | 408141 | 408142 | 408143 |
| | | | | HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included | | | |
| 657E | 3408E | 6PR1-Up 7KR1-Up | 99C1-Up | | 408371 | | 408373 |
| 657E | 3412E | 6TR1-Up 5YR1-Up | 80M1-Up | | 412371 | | 412373 412374* |
| | | | | HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included | | | |
| 657G | C18 | A4G1-Up W1B1-Up W1C1-Up | RHX1-Up | Includes Fuel Injector Seal Exhaust Manifold Gaskets Not Included | C18091NLS | C18092NLS | C18093 |

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | | | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE | | |
|---|--------------------------|--------------------|----------------------|---|--------------------------|----------------------|---------------------|--|--|
| 660B | D346B Front Engine | 58K 1-Up | | 60 Degree V Engine | 346011 | | 346013 | | |
| | | | | Single Head Replacement Set | | | 346014 | | |
| | | | | Fuel System Rebuild Set | | | 346009 | | |
| | | | | Cyl Block Repair Shim Set | | | 346099 | | |
| 666B | D346B Front Engine | 66K 1-Up | | 60 Degree V Engine | 346011 | | 346013 | | |
| | | | | Single Head Replacement Set | | | 346014 | | |
| | | | | Fuel System Rebuild Set | | | 346009 | | |
| | | | | Cyl Block Repair Shim Set | | | 346099 | | |
| | D343 Rear Engine | 20G242-Up | 52K1-Up | Spacer Plated Engine | 343031* | | 343033 | | |
| | | | | * Contains 5S3903 Silicone Lip Rear Crankshaft Seal Only | | | | | |
| | | | | Fuel System Rebuild Set | | | 343059 | | |
| 700 SERIES OFF HIGHWAY TRUCKS, QUARRY TRUCKS, COAL HAULERS, AND WHEEL TRACTORS | | | | | | | | | |
| 740 | C11 | B1M 1-Up | RSE 1-Up TXE 1-Up | | C11011NLS | C11012NLS | C11013 | | |
| 768C | 3408 | 2X1-Up | 48W1-Up | | 408071 | 408072 | 408073 | | |
| 769B | D343 | 99F1792-Up | 52K1-Up | Spacer Plated Turbocharged P.C. Engine | 343051* | 343052 | 343053 | | |
| | | | | * Note: Rear Crankshaft Seal Not Included | | | | | |
| | | | | Fuel System Rebuild Set | | | 343059 | | |
| 769C | 3408 | 1X 1-Up | 48W1-Up | | 408071 | 408072 | 408073 | | |
| 769D | 3408 | BBB1-Up | 5JJ1-Up | | In Development | | | | |
| 769D | 3408 | 5TR-Up 5SS1-Up | 99C1-Up | | 408351 | | 408373 | | |
| | | | | HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included | | | | | |
| 771C | 3408 | 3BJ 1-Up | 48W37000-Up | | 408071 | | | | |
| 771D | 3408E | 6JR 1-Up | 99C1-Up | | 408351 | | 408373 | | |
| | | | | HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included | | | | | |
| 771D | 3408 | BCA1-Up | 5XD1-Up | | In Development | | | | |
| 772 | D346B | 80S1-Up 11S1-Up | | 60 Degree V Engine | 346031WOHGNLS | | 346033WOHG | | |
| | | | | Head Gskt Not Included Cyl Block Repair Shim Set | | | | | |
| 772B | 3412 | 64W1-Up | 73W1-Up | | 412061 | 412062 | 412063 | | |
| 773 | D346B | 63G1-Up | 73X1-Up | 60 Degree V Engine | 346031WOHGNLS | | 346033WOHG | | |
| | | | | Head Gskt Not Included Cyl Block Repair Shim Set Fuel System Set | | | | | |
| 773B | 3412 | 63W 1-Up | 73W1-Up | | 412061 | 412062 | 412063 | | |
| 773D | 3412 | 7ER1-Up 7CS1-Up | 80M1-Up | Includes Fuel Injector Seal Exhaust Manifold Gaskets Not Included | 412361 | | 412373 | | |
| | | | | *Single Head Replacement Set | | | | | |
| | | | | HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included | | | | | |
| 773E | 3412 | BDA1-Up | 5JJ4562-Up | DOES NOT INCLUDE 8 OF 1007401 EXHAUST MANIFOLD SEGMENT SEAL OR AFTERCOOLER GASKETS | 412021NLS | 412022NLS | 412023 | | |
| 773 | C27 | EED1-Up EXD1-Up | EHX1-Up | | C27031NLS | C27032NLS | C27033 | | |
| 775B | 3412 | 7XJ1-Up | 73W1-Up | | 412061 | 412062 | 412063 | | |
| 773E | 3412 | KPH1-Up | ASK1-Up KEG1-Up | | 412191NLS | 412192NLS | 412193 | | |
| 775D | 3412 | 6KR1-Up 8AS1-Up | 80M1-Up | | 412361 | | 412373 | | |
| | | | | *Single Head Replacement Set | | | | | |
| | | | | | | | 412374* | | |

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | | | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE |
|---|-------|----------------------------------|--------------------|--|--------------------------|----------------------|---------------------|
| HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included | | | | | | | |
| 775F | C27 | DLS1-Up EYG1-Up | LJX1-Up | | C27011NLS | C27012NLS | C27013 |
| 776 | D348 | 14H1-Up | 98S1-Up | Both Filter Groups Head gasket Not Included Cyl Block Repair Shim Set | 348011WOHG | | 348099 |
| 776B | 3508 | 6JC1-Up | 99W1-Up | Single Head Replacement Set | 508011 | | 508013 |
| 776C | 3508 | 2TK1-Up | 7YG1-Up | Single Head Replacement Set | 508021 | | 508023 |
| 776D | 3508B | 5ER1-Up | 2GR1-Up | EUI Engine Non-ceramic Exhaust Manifolds Single Head Replacement Set | 508121 | | 508123 |
| 777 | D348 | 84A1-Up | 98S1-2685 | Both Filter Groups Head gasket Not Included Single Head Replacement Set Cyl Block Repair Shim Set | 348011WOHG | | 348014WOHG |
| 777 | D348 | 84A1-Up | 98S2686-Up | Single Head Replacement Set Head Gskt Not Included | | | 348024WOHG |
| 777B | 3508 | 4YC1-Up | 99W1-Up | Single Head Replacement Set | 508011 | | 508013 |
| 777B | 3508 | 3NF1-Up | 99W1-Up | | | In Development | 508014 |
| 777C | 3508 | 4XJ 1-Up | 7YG1-Up | Single Head Replacement Set | 508021 | | 508023 |
| 777D | 3508B | 3PR 1-Up | 2GR1-Up | EUI Engine Non-ceramic Exhaust Manifolds Single Head Replacement Set | 508121 | | 508024 |
| 777D | 3508B | JDN1-Up C8T1-Up | FKR1-Up | | 508091NLS | | 508123 |
| 777G | C32 | RDR1-UP TNM1-Up | FHS1-UP | | C32051NLS | C32052NLS | 508093 |
| 777G | C32 | TNM1-Up | FZS1-UP | | C32051NLS | C32052NLS | C32053 |
| 777F | C32 | JRP1-UP JXP1-UP | LJW1-UP | | C32041NLS | C32042NLS | C32043 |
| 784B | 3512 | 5RK 1-Up | 4WJ1-Up | Single Head Replacement Set | 512051 | | 512053 |
| 785 | 3512 | 8GB 1-Up | 96Z1-Up | | 512051 | | 508024 |
| 785B | 3512 | 6HK 1-Up | 4WJ1-Up | | 512051 | | 512053 |
| 785C | 3512 | 1HW 1-Up | 8BR 1-Up | | 512061 | | 512063 |
| 785D | 3512 | DMC 1-Up M4J 1-Up MSY 1-Up | B7F 1-Up | | 512081NLS | | 512083 |
| 789 | 3516 | 9ZC 1-Up | 54Z1-Up | Single Head Replacement Set | 516051 | | 516053 |
| 789B | 3516 | 7EK 1-Up | 2PK1-Up | Single Head Replacement Set | 516051 | | 508024 |
| 789C | 3516B | 2BW1-UP | 7TR1-Up | | 516181NLS | | 516053 |
| 793 | 3516 | 3SJ1-Up | 54Z1-Up | | | In Development | 508024 |
| 793B | 3516 | 1HC1-Up | 2PK1-Up | | | In Development | 516183 |
| 793C | 3516B | 4AR1-Up 4GZ1-Up | 7TR1-Up | EUI Engine Ceramic Exhaust Manifolds Single Head Replacement Set | 516171 | | 516173 |
| 793C | 3516B | ATY1-UP CBR1-UP | 8WM1-UP | | 516181NLS | | 516174 |
| 793D | 3516B | FDB1-UP | 8WM1-UP | | 516181NLS | | 516183 |

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | | | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE |
|---|-------|------------|--------------------|---|--------------------------|----------------------|-----------------------------|
| 800 SERIES COMPACTORS AND WHEEL TRACTORS | | | | | | | |
| 814 | | 90P1-202 | | Non Spacer Plated | | | |
| 815 | 3306 | 91P1-527 | | Turbocharged | 306221 | 306222 | 306223 |
| 816 | | 57U1-197 | | P.C. Engine | | | |
| 814 | | 14R1-Up | 3N1-79762 | Non Spacer Plated | | | |
| 815 | 3306 | 15R1-Up | 49V1-24220 | Turbocharged | 306231 | 306232 | 306233 |
| 816 | | | | P.C. Engine | | | |
| 814 | | 14R1-Up | 3N79763-Up | Spacer Plated | | | |
| 815 | 3306 | 15R1-Up | | Turbocharged | 306241 | 306242 | 306243 |
| 816 | | | | P.C. Engine | | | |
| 814B | | 15Z1-Up | 8Z1-Up | Spacer Plated | | | |
| 815B | 3306 | 16Z1-Up | | Turbocharged | 306251 | 306252 | 306253 |
| 816B | | 17Z1-Up | | D.I. Engine | | | |
| * Order Aftercooler Gasket Kit Separately if Required | | | | | | | |
| 814F | | BGF1-Up | 3PD1-Up | Straight Style Head Gasket | 176021STRNLS | 176022STRNLS | 176023STR |
| 815F | 3176C | BMR1-Up | | | | | |
| 816F | | | | | | | |
| 824B | | 36H811-Up | 52K1-Up | Spacer Plated | | | |
| 825B | D343 | 43N1-Up | | Turbocharged | 343021* | | 343023 |
| 826B | | 58U1-Up | | P.C. Engine | | | |
| * Note: Rear Crankshaft Seal NOT included | | | | | | | |
| | | | | | | | Fuel System Rebuild Set |
| | | | | | | | 343059 |
| 824C | | 85X1-Up | 70V5389-Up | Spacer Plated | | | |
| 825C | 3406 | 86X1-Up | 11N1-Up | Turbocharged | 406011 | 406012 | 406013 |
| 826C | | 87X1-Up | | Non Aftercooled Engine | | | |
| W/19 Bolt Flywheel Housing | | | | | | | |
| | | | | | | | Fuel Pump Installation Set |
| | | | | | | | 406039 |
| 824C | | 85X1194-Up | 70V21372-Up | Spacer Plated | | | |
| 825C | 3406 | 86X731-Up | 11N1-Up | Turbocharged | 406231 | 406232 | 406233 |
| 826C | | 87X587-Up | | Non Aftercooled Engine | | | |
| W/19 Bolt Flywheel Housing | | | | | | | |
| | | | | | | | Fuel Pump Installation Set |
| | | | | | | | 406039 |
| 824C | | 85X1194-Up | 70V21372-Up | Spacer Plated | | | |
| 825C | 3406 | 86X731-Up | 11N1-Up | Turbocharged | 406331 | 406232 | 406233 |
| 826C | | 87X587-Up | | Non Aftercooled Engine | | | |
| W/24 Bolt Flywheel Housing | | | | | | | |
| | | | | | | | Fuel Pump Installation Set |
| | | | | | | | 406039 |
| 824G | | 4SN1-Up | 41Z1-Up | Spacer Plated | | | |
| 825G | 3406 | 6RN1-Up | | Turbocharged | 406331 | 406332 | 406333 |
| 826G | | 7LN1-Up | | Aftercooled Engine | | | |
| W/24 Bolt Flywheel Housing | | | | | | | |
| | | | | | | | Fuel Pump Installation Set |
| | | | | | | | 406039 |
| 824G | | AWW1-Up | BKN1-Up | Spacer Plated Turbocharged Engines | 406371 | 406372 | 406373 |
| 825G | 3406E | AXB1-Up | | | | | |
| 826G | | AYH1-Up | | | | | |
| 834B | 3408 | 7BR 1-Up | 99C1-Up | | 408351 | | 408353 |
| HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included | | | | | | | |
| 834H | C18 | BXD1-U | RHX1-Up | Includes Fuel Injector Seal Exhaust Manifold Gaskets Not Included | C18101NLS | C18102NLS | C18103 |
| 836 | 3408 | 3RL1-Up | 48W1-Up | | | In Development | |
| 836C | 3408 | 7FR1-Up | 99C1-Up | | 408351 | | 408353 |
| HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included | | | | | | | |
| 836H | C18 | BXD1-Up | RHX1-Up | | C18101NLS | C18102NLS | C18103 |
| 844 | 3412 | 2KZ 1-Up | 80M1-Up | | 412351 | | 412373 |
| | | | | | | | Single Head Replacement Set |
| | | | | | | | 412374 |
| HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included | | | | | | | |
| 844H | C27 | BTW1-Up | EHX1-Up | | C27001NLS | C27002NLS | C27003 |

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | | | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE |
|--|-------|--|---|--|--------------------------|----------------------|---------------------|
| 854G | 3508B | 1JW 1-Up | 2GR1-Up | EUI Engine Non-ceramic Exhaust Manifolds Single Head Replacement Set | 508121 | | 508123 508124 |
| 854K | C32 | H8M1-UP H9K1-UP | MHM1-UP MZM1-UP | | C32031NLS | C32032NLS | C32033 |
| CB434 | 3114 | 97Z1-Up | 3TF218-Up | Dry Rear Housing | 114021 | 114012 | 114013 |
| WHEEL TYPE LOADERS | | | | | | | |
| 910 | 3204 | 80U1-Up 40Y1-Up 41Y1-Up | 45V1-Up 45V1-32984 45V1-33060 | Non Turbocharged P.C. & D.I. Engines | 204011 | 204012 | 204013 |
| 910 | 3204 | 40Y1-Up 41Y1-Up | 45V32985-39866 45V33061-40043 | Non Turbocharged D. I. Engine | 204021 | 204022 | 204023 |
| 910 | 3204 | 40Y1-Up 41Y1-Up | 45V39867-Up 45V40044-Up | Non Turbocharged D. I. Engine | 204061 | 204062 | 204063 |
| G910 | 3204 | 3SD1-Up 8GB1-Up | 45V53573-Up | Non Turbocharged D. I. Engine | 204061 | 204062 | 204063 |
| 910E | 3114 | 1SF1-1103 | 2ZF1-Up | Dry Rear Housing | 114021 | 114012 | 114013 |
| 910F | 3114 | 1SF1104-Up | 2ZF1-Up | Wet Rear Housing | 114011 | 114012 | 114013 |
| 916 | 3204 | 2XB1-Up 9WB1-IP | 45V39562-Up 7YJ 1-Up | Turbocharged D.I. Engines | 204041 | 204042 | 204043 |
| G916 | 3204 | 5GB1-Up | 45V39562-Up | Turbocharged D.I. Engines | 204041 | 204042 | 204043 |
| 918F | 3114 | 3TJ1-Up 2CK1-Up 5DL1-Up | 2FG1-Up 2ZF1-Up | Wet Rear Housing | 114011 | 114012 | 114013 |
| 920 | 3304 | 41J1-2576 62K1-4605 | | Non Spacer Plated Non Turbocharged P.C. Engine | 304011 | 304012 | 304013 |
| 920 | 3304 | | 43V1-18853 48V1-52803 78P1-47087 | Non Spacer Plated Non Turbocharged P.C. Engine | 304031 | 304032 | 304033 |
| 920 | 3304 | | 43V18854-Up 48V52804-Up 78P47088-Up | Spacer Plated Non Turbocharged P.C. Engine | 304051 | 304052 | 304053 |
| 924F | 3114 | 4YN1-Up 5NN1-Up 6MN1-Up 7PN1-Up | 97Z1-Up 2ZF1-Up 2FG1-Up | Wet Rear Housing | 114011 | 114012 | 114013 |
| 926 926E | 3204 | 94Z1-Up 4NB1-Up | 45V39562-Up | Turbocharged D.I. Engines | 204041 | 204042 | 204043 |
| G926 | 3204 | 3TD1-Up 1SD1-Up | 45V39562-Up | Turbocharged D.I. Engines | 204041 | 204042 | 204043 |
| 928F | 3116 | 2XL1-Up 7YM1-Up 8AK1-Up | 98Z1-Up 1CK1-Up 4TF1-Up | | 116021 | | 116023 |
| 928G | | 7SR1-Up 6XR1-Up | 98Z1-Up 1CK1-Up 4TF1-Up | | 116021 | | 116023 |
| 930 | 3304 | 79J1-2223 41K1-3207 | | Non Spacer Plated Non Turbocharged P.C. Engine | 304011 | 304012 | 304013 |
| 930 | 3304 | | 43V1-18890 48V1-52799 78P1-45003 | Non Spacer Plated Non Turbocharged P.C. Engine | 304031 | 304032 | 304033 |

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE | |
|--|------|--|--|--|----------------------|---------------------|---------|
| 930 | 3304 | 43V18891-Up 48V52800-Up 78P45004-Up | Spacer Plated Non Turbocharged P.C. Engine | 304051 | 304052 | 304053 | |
| 936 936E 936F | 3304 | 33Z1-Up 45Z1-Up 9MK1-Up 4TK1-Up 4SB1-Up 8AJ1-Up | 7Z7408-Up 9Z10000-Up 12Z1502-Up | Spacer Plated Turbocharged D.I. Engine | 304091 | 304092 | 304093 |
| G936 | 3304 | 3HD1-Up 4ND1-Up 8ED1-Up | 7Z7408-Up 9Z10000-Up 12Z1502-Up | Spacer Plated Turbocharged D.I. Engine | 304091 | 304092 | 304093 |
| 938F | 3116 | 1KM1-Up 2RM1-Up 7SN1-Up | 98Z-Up 4TF14130-Up | | 116021 | 116023 | |
| 938G | 3126 | 4YS1-Up 9HS1-Up | 55K500-7719 55K500-3590 | 2 valves per cylinder | 3126071 | 3126072 | 3126073 |
| 950 | 3304 | 81J1-5410 | | Non Spacer Plated Turbocharged P.C. Engine | 304021 | 304022 | 304023 |
| 950 | 3304 | 43J 1-Up | 43V1-18955 48V1-52797 78P1-47087 | Non Spacer Plated Turbocharged P.C. Engine | 304041 | 304042 | 304043 |
| 950 | 3304 | | 43V18956-Up 48V52798-Up 78P47088-Up | Spacer Plated Turbocharged P.C. Engine | 304071 | 304072 | 304073 |
| 950B | 3304 | 31R1-Up 63R1-603 65R1-3087 22Z1-3188 | 7Z1-Up 9Z1-Up 12Z1-Up | Spacer Plated Turbocharged D.I. Engine | 304081 | 304082 | 304083 |
| 950E | 3304 | 63R6054-Up 65R3088-Up 22Z3189-Up | 7Z1-Up 9Z1-Up 12Z1-Up | Spacer Plated Turbocharged D.I. Engine | 304081 | 304082 | 304083 |
| 950F | 3116 | 2LM1-Up 4DJ1-Up 5SK1-Up 6YG1-Up 7ZF1-Up 8TK1-Up | 98Z1-Up 1CK1-Up 4TF1-Up | | 116021 | 116023 | |
| 950G | 3126 | 3JW1-Up 4BS1-Up | 55K1620-Up 55K1-Up 55K1620-Up | 2 valves per cylinder | 3126071 | 3126072 | 3126073 |
| 950H | C7 | M1G1-Up N1A1-Up | C7C1-Up | | C70091 | C70092 | C70093 |
| 960F | 3116 | 1YM1-Up 4CL1-Up 6XL1-Up 9ZJ1-Up | 98Z1-Up 1CK1-Up 4TF1-Up | | 116021 | 116023 | |
| 962G | 3126 | 4PW1-Up 5AS1-Up 6EW1-Up | 55K1620-Up 55K1-Up 55K2081-3590 | 2 valves per cylinder | 3126071 | 3126072 | 3126073 |
| 962H | C7 | M3G1-Up N4A1-Up | C7C1-UP | | C70091 | C70092 | C70093 |

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | | | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE |
|--|-------|--|--|--|--------------------------|----------------------|---------------------|
| 966C | 3306 | 30K1-1624 76J1-6388 42J1-3565 | | Non Spacer Plated Turbocharged P.C. Engine | 306221 | 306222 | 306223 |
| 966C | 3306 | 76J6389-Up 42J3566-Up | 3N1-79762 | Non Spacer Plated Turbocharged P.C. Engine | 306231 | 306232 | 306233 |
| 966C 966D | 3306 | | 3N79763-Up 44V22485-Up | Spacer Plated Turbocharged P.C. Engine | 306241 | 306242 | 306243 |
| 966C | 3306 | | 8TD1-Up | Spacer Plated Turbocharged D.I. Engine * Order Aftercooler Gasket Kit Separately if Required | 306251 | 306252 | 306253 |
| 966D | 3306 | 35S1-2522 94X1-6488 99Y1-5314 | 8Z1-Up 10Z1-Up 13Z1-Up | Spacer Plated Turbocharged D.I. Engine * Order Aftercooler Gasket Kit Separately if Required | 306251 | 306252 | 306253 |
| 966E | 3306 | 35S2523-Up 94X6489-Up 99Y5315-Up | 8Z1-Up 10Z1-Up 13Z1-Up | Spacer Plated Turbocharged D.I. Engine * Order Aftercooler Gasket Kit Separately if Required | 306251 | 306252 | 306253 |
| 966F | 3306 | 1SL1-Up 3XJ1-Up 4YG1-Up 8BG1-Up 9YJ1-Up | 8Z1-Up 10Z1-Up 13Z1-Up 6NC1-Up | Spacer Plated Turbocharged D.I. Engine * Order Aftercooler Gasket Kit Separately if Required | 306251 | 306252 | 306253 |
| 966G | 3306 | 3PW 1-Up 9RS 1-Up | 13Z1-Up | Spacer Plated Turbocharged D.I. Engine | 306251 | 306252 | 306253 |
| 966G | 3176C | AWY1-Up AXJ1-Up AWZ1-Up AXL1-Up ANT1-Up ANZ1-Up | 3PD1-Up | Straight Style Head Gasket | 176031STRNLS | 176032STRNLS | 176033STR |
| 966H | C11 | A6D1-Up A6G1-Up A6J1-Up BJ61-Up BS61-Up FMW1-Up RYF1-Up TAL1-Up | RSX1-Up TXE1-Up | | C11001NLS | C11002NLS | C11003 |
| 970F | 3306 | 7PL1-Up 7SK1-Up 9JK1-Up | 8Z1-Up 10Z1-Up 13Z1-Up | * Order Aftercooler Gasket Kit Separately if Required | 306251 | 306252 | 306253 |
| 972G | 3306 | 1EW 1-Up 6AW 1-Up | 13Z 1-Up | * Order Aftercooler Gasket Kit Separately if Required | 306251 | 306252 | 306253 |
| 972H | C13 | MHX 1-Up | A7D1-Up A7G1-Up A7J1-Up LCC1-Up | WITH MLS (MULTIPLE LAYER STEEL) HEAD GASKET | C13081NLS | C13082NLS | C13083 |

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | | | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE |
|--|------|-----------|--------------------|--|--------------------------|----------------------|---------------------|
| 980B | 3306 | 89P1-2167 | | Non Spacer Plated Turbocharged P.C. Engine * Order Aftercooler Gasket Kit Separately if Required | 306131 | 306132 | 306133 |

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | | | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE |
|--|-------|--|------------------------------------|--|--------------------------|----------------------|---------------------|
| 980B | 3306 | | 3N1-79762 | Non Spacer Plated Turbocharged P.C. Engine | 306171 | 306172 | 306173 |
| | | | | Converted to Spacer Plated Turbocharged P.C. Engine * Order Aftercooler Gasket Kit Separately if Required | 306181 | 306182 | 306183 |
| 980C | 3406 | 63X1-Up 2XD1-Up 13B300-Up | 70V4683-Up 11N1-1475 81Y1-Up | Spacer Plated Turbocharged Non Aftercooled Engine W/19 Bolt Flywheel Housing | 406011 | 406012 | 406013 |
| | | | | Fuel Pump Installation Set | | | 406039 |
| 980C | 3406 | 63X 6575-Up | 11N1476-Up | Spacer Plated Turbocharged Non Aftercooled Engine W/24 Bolt Flywheel Housing | 406331 | 406332 | 406333 |
| | | | | Fuel Pump Installation Set | | | 406039 |
| 980F | 3406 | 3HK-Up 8CJ1-Up 8JN1-Up 5XJ1-Up | 11N1-Up | Spacer Plated Turbocharged Non Aftercooled Engine W/19 Bolt Flywheel Housing | 406231 | 406232 | 406233 |
| | | | | Fuel Pump Installation Set | | | 406039 |
| 980F | 3406 | 3HK-Up 8CJ1-Up 8JN1-Up 4RN1-Up | 11N1-Up | Spacer Plated Turbocharged Non Aftercooled Engine W/24 Bolt Flywheel Housing | 406331 | 406332 | 406333 |
| | | | | Fuel Pump Installation Set | | | 406039 |
| 980G | 3406 | 2KR1-Up 9CM1-Up 2SR1-Up | 41Z1-Up | Spacer Plated Turbocharged Aftercooled Engine W/24 Bolt Flywheel Housing | 406331 | 406332 | 406333 |
| | | | | Fuel Pump Installation Set | | | 406039 |
| 980G | 3406E | AWH1-Up AXG1-Up | BET1-Up | Spacer Plated Turbocharged Engines | 406381 | 406382 | 406383 |
| 980H | C15 | JMS 1-Up KZL 1-Up MHG 1-Up A8J 1-Up | LHX 1-Up | Does Not Include Oil Pan Isolation Seal Does Not Include Exhaust Manifold Gaskets Fuel Injector O-Rings Included | C15111NLS | C15112NLS | C15113 |
| 988 | D343 | 87A 3093-Up | | Spacer Plated Turbocharged P.C. Engine * Note: Rear Crankshaft Seal NOT included | 343041* | | 343043 |
| | | | | Fuel System Rebuild Set | | | 343059 |
| 988B | 3408 | 50W 1-Up | 48W950-Up | | 408061 | 408062 | 408063 |
| 988F | 3408 | 8YG | 48W35039-Up | Turbocharged D.I. Engine | 408161 | 408162 | 408163 |
| 988F | 3408E | 2ZR 1-Up | 99C1-Up | | 408361 | | 408363 |
| 988H | | BXY1-Up | RHX1-Up | HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included Does Not Include Exhaust Manifold Gaskets Includes Fuel Injector Seals | C18011NLS | C18012NLS | C18013 |
| 990 | C27 | BWX1-Up | EHX2416-Up | | C27041NLS | C27042NLS | C27043 |
| 990 | 3412 | 4FR1-Up | 80M1-Up | | 412351 | | 412373 |
| | | | | Single Head Replacement Set HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included | | | 412374 |
| 990B | 3412 | 7HK | 73W | | | In Development | |
| 990D | 3412 | BCR1-Up | 5JJ4562-Up | DOES NOT INCLUDE 8 OF 1007401 EXHAUST SEGMENT SEAL AFTERCOOLER GASKETS NOT INCLU | 412021NLS | 412022NLS | 412023 |
| 992 | D348 | 25K1-1169 | | Single Head Replacement Set Head Gskt Not Included | | | 348014WOHG |

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE |
|--|--------------------|---------------------------|--------------------------|----------------------|---------------------|
| | | Cyl Block Repair Shim Set | | | 348099 |

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | | | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE |
|--|-------|--|----------------------------------|---|--------------------------|----------------------|----------------------|
| 992B | D348 | 25K 1170-Up | | Single Head Replacement Set Head Gskt Not Included Cyl Block Repair Shim Set | | | 348014WOHG 348099 |
| 992C | 3412 | 42X1-Up 49Z1-Up | 73W1-Up | Single Lip Silicone Rear Seal | 412161 | | |
| 992D | 3412 | 7MJ1-Up | 73W1-Up | Hydrodynamic Rear Seal | 412051 | | |
| 992G | 3508B | 7HR 1-Up AZX1-Up | 2GR1-Up | EUI Engine Non-ceramic Exhaust Manifolds Single Head Replacement Set | 508121 | | 508123 508124 |
| 992K | C32 | ZMX1-UP | MHM1-UP MZM1-UP | | C32031NLS | C32032NLS | C32033 |
| 992K | C32 | H4C1-UP | LJW1-UP | | C32041NLS | C32042NLS | C32043 |
| 993K | C32 | Z9K1-UP | LJW1-UP | | C32041NLS | C32042NLS | C32043 |
| 993K | C32 | Z4D1-UP | NZK1-UP | | C32021NLS | C32022NLS | C32033 |
| 994 | 3516 | 9YF 1-Up | 54Z1-Up | Single Head Replacement Set | 516051 | | 516053 508024 |
| 994D | 3516 | 3TZ1-Up | 7TR1-Up | | | In Development | |
| TRACK TYPE LOADERS | | | | | | | |
| 931 | 3204 | 8N1-Up 10N1-Up 78U1-Up 81U1-Up | 45V1-Up | Non Turbocharged P.C. & D.I. Engine | 204011 | 204012 | 204013 |
| 931B | 3204 | 25Y1-Up 26Y1-Up | 45V1-32893 | Non Turbocharged | 204011 | 204012 | 204013 |
| | | 29Y1-Up 30Y1-Up | 45V1-32939 | P.C. & D.I. Engine | | | |
| 931B | 3204 | 25Y1-Up 26Y1-Up | 45V32894-40125 | Non Turbocharged | 204021 | 204022 | 204023 |
| | | 29Y1-Up 30Y1-Up | 45V32940-40209 | D.I. Engine | | | |
| 931B | 3204 | 25Y1-Up 26Y1-Up | 45V40126-Up | Non Turbocharged | 204061 | 204062 | 204063 |
| | | 29Y1-Up 30Y1-Up | 45V40210-Up | D.I. Engine | | | |
| 931B | 3204 | 4SC1-Up 6EC1-Up | 45V41078-Up | Non Turbocharged D.I. Engine | 204061 | 204062 | 204063 |
| 931C | 3204 | 2AK1-Up 2BJ1-Up 5LJ1-Up 6RF1-Up 6AJ1-Up 7HF1-Up 8AF1-Up 9AJ1-Up | 45V41078-Up | Non Turbocharged D.I. Engine | 204061 | 204062 | 204063 |
| 935B | 3204 | 3DF 1-Up | 45V1-Up | | 204041 | | |
| 935C | 3204 | 5DJ1-Up 8CF1-Up | 45V1-Up | | 204041 | | |
| 941 | 3304 | 70H1-2941 80H1-3883 | | Non Spacer Plated Non Turbocharged P.C. Engine | 304131 | 304012 | 304013 |
| 941 | 3304 | | 43V1-Up 48V1-Up 78P1-47087 | Non Spacer Plated Non Turbocharged P.C. Engine | 304031 | 304032 | 304033 |

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | | | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE |
|--|------|--|---|--|--------------------------|----------------------|---------------------|
| 941 941B | 3304 | | 78P47088-Up | Spacer Plated Non Turbocharged C. Engine | 304051 | 304052 | 304053 |
| 943 | 3204 | 3Y1-Up 4Z1-Up 19Z1-Up 31Y1-Up | 10X1-Up 45V38842-Up | D.I. Engine | 204031 | 204032 | 204033 |
| 951B 951C | 3304 | 86J1-2597 | | Non Spacer Plated Non Turbocharged P.C. Engine | 304131 | 304012 | 304013 |
| 951B 951C | 3304 | 32F1-Up 19H1-Up 69H1-Up 86J1-Up | 43V1-18816 48V1-Up 78P1-46320 | Non Spacer Plated Non Turbocharged P.C. Engine | 304031 | 304032 | 304033 |
| 951B 951C | 3304 | 32F1-Up 19H1-Up 69H1-Up 86J1-Up | 43V18817-Up 78P46321-Up 48V38780-Up | Spacer Plated Non Turbocharged P.C. Engine | 304051 | 304052 | 304053 |
| 953 | 3204 | 5Z1-Up 20Z1-Up 44Z1-Up 76Y1-Up 77Y1-Up 78Y1-Up | 10X1-Up 45V29936-Up | D.I. Engine | 204031 | 204032 | 204033 |
| 953B | 3116 | 5MK 1-Up | 4TF1-Up | | 116031 | | 116023 |
| 953C | 3116 | 2ZN 1-Up | 4TF1-Up | | 116031 | | 116023 |
| 955K | 3304 | 85J 1-6246 | | Non Spacer Plated Turbocharged P.C. Engine | 304021 | 304022 | 304023 |
| 955K 955L | 3304 | 64J1-Up 71J1-Up 85J1-Up 57M1-Up 13X1-Up 8Y1-Up | 43V1-18825 48V1-52798 78P1-47087 | Non Spacer Plated Turbocharged P.C. Engine | 304041 | 304042 | 304043 |
| 955L | 3304 | 57M1-Up 13X1-Up 8Y1-Up | 43V18826-Up 48V52799-Up 78P47088-Up | Spacer Plated Turbocharged P.C. Engine | 304071 | 304072 | 304073 |
| 963 | 3304 | 29S1-Up 6Z1-Up 11Z1-Up 18Z1-Up 21Z1-Up 48Z1-Up | 7Z1-Up 9Z1-Up 12Z1-Up | Spacer Plated Turbocharged D.I. Engine | 304081 | 304082 | 304083 |
| 963B | 3116 | 9BL1-Up | 4TF 1-Up | | 116031 | 116012 | 116023 |
| 963C | 3116 | 2DS 1-Up | 4TF 1-Up | | 116031 | | |
| 973 | 3306 | 66G1-Up 86G1-Up 90L1-Up 91L1-Up 26Z1-Up 32Z1-Up | 8Z1-Up 10Z1-Up 13Z1-Up | Spacer Plated Turbocharged D.I. Engine | 306281 | 306282 | 306283 |

* Order Aftercooler Gasket Kit Separately if Required

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | | | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE |
|--|------|--|---------------------------|--|--------------------------|----------------------|---------------------|
| 977K 977L | 3306 | 11K1-5050 48J1-1058 | | Non Spacer Plated Turbocharged P.C. Engine | 306221 | 306222 | 306223 |
| 977K 977L | 3306 | 48J1-Up 11K1-Up 14X1-Up 64X1-Up | 3N1-79762 49V1-24220 | Non Spacer Plated Turbocharged P.C. Engine | 306231 | 306232 | 306233 |
| 977K 977L | 3306 | 48J1-Up 11K1-Up 14X1-Up 64X1-Up | 3N79763-Up 49V24221-Up | Spacer Plated Turbocharged P.C. Engine | 306241 | 306242 | 306243 |
| 983 | D343 | 38K1-Up | 52K1-Up | | | In Development | |
| 983B | 3406 | 58X 1-Up | 70V5101-Up | Early Style Front Cover | 406171 | 406172 | 406173 |
| AGRICULTURAL TRACTORS | | | | | | | |
| CH65 | 3306 | 7YC1-1899 | 8Z1-Up | Spacer Plated Aftercooled D.I Engine | 306451 | | 306453 |
| CH65B | 3306 | 7YC 1900-Up | 8Z1-Up | Spacer Plated Aftercooled D.I Engine | 306451 | | 306453 |
| CH65C | 3306 | 2ZJ1-1679 | 8Z1-Up | Spacer Plated Aftercooled D.I Engine | 306451 | | 306453 |
| CH65D | 3306 | 2ZJ 1680-Up | 8Z1-Up | Spacer Plated Aftercooled D.I Engine | 306451 | | 306453 |
| STEIGER | 3306 | | 66D12370-26831 | Non Spacer Plated P.C. Engine * Order Aftercooler Gasket Kit Separately if Required | 306191* | | |
| STEIGER | 3306 | | 66D26832-Up | Spacer Plated P.C. Engine * Order Aftercooler Gasket Kit Separately if Required | 306211* | | |
| STEIGER | 3306 | | 64Z1-Up | Spacer Plated Aftercooled D.I Engine | 306261 | | |
| STEIGER | 3406 | | 6TB3571-Up | Spacer Plated Aftercooled D.I Engine W/19 Bolt Flywheel Housing Fuel Pump Installation Set | 406211 | | 406039 |
| ARTICULATED TRUCKS | | | | | | | |
| D25C D25D | 3306 | 9YC1-Up 1HK1-Up | 13Z1-Up 7JB1-Up | Spacer Plated Turbocharged or Turbocharged/Aftercooled D.I. Engine * Order Aftercooler Gasket Kit Separately if Required | 306361 | 306362* | 306363* |
| D30C D30D | 3306 | 7ZC1-Up 3AJ1-Up | 13Z1-Up 7JB1-Up | Spacer Plated Turbocharged or Turbocharged/Aftercooled D.I. Engine * Order Aftercooler Gasket Kit Separately if Required | 306361 | 306362* | 306363* |

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | | | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE |
|--|-------|--------------------|--------------------|--|--------------------------|----------------------|---------------------|
| D35C | 3306 | 2GD 1-Up | 13Z1-Up 7JB1-Up | Spacer Plated Turbocharged or Turbocharged/Aftercooled D.I. Engine * Order Aftercooler Gasket Kit Separately if Required | 306361 | 306362* | 306363* |
| D35HP | 3406 | 3FD1-Up | 6TB1-Up | | | In Development | |
| | | | | Fuel Pump Installation Set | | | 406039 |
| D40D | 3406 | 2JJ | 70V1-Up 11N1-Up | | | In Development | |
| | | | | Fuel Pump Installation Set | | | 406039 |
| D250B D250E | 3306 | 5WD1-Up 5TN1-Up | 13Z1-Up 7JB1-Up | Spacer Plated Turbocharged or Turbocharged/Aftercooled D.I. Engine * Order Aftercooler Gasket Kit Separately if Required | 306361 | 306362* | 306363* |
| D300B D300D | 3306 | 4SD1-Up 5MG1-Up | 13Z1-Up 7JB1-Up | Spacer Plated Turbocharged or Turbocharged/Aftercooled D.I. Engine * Order Aftercooler Gasket Kit Separately if Required | 306361 | 306362* | 306363* |
| D300E | 3306 | 7FN 1-Up | 13Z1-Up 7JB1-Up | Spacer Plated Turbocharged or Turbocharged/Aftercooled D.I. Engine * Order Aftercooler Gasket Kit Separately if Required | 306361 | 306362* | 306363* |
| D350C D350D | 3306 | 8XC1-Up 9RF1-Up | 13Z1-Up 7JB1-Up | Spacer Plated Turbocharged or Turbocharged/Aftercooled D.I. Engine * Order Aftercooler Gasket Kit Separately if Required | 306361 | 306362* | 306363* |
| D350E | 3406 | 9LR1-Up | 41Z1-Up | | | In Development | |
| | | | | Fuel Pump Installation Set | | | 406039 |
| D350E | 3406E | 2XW1-Up | 9AP1-1799 | Spacer Plated Turbocharged Engines | 406311 | 406312 | 406313 |
| D400 | 3406 | 1MD1-Up | 6BT1-Up | | | In Development | |
| | | | | Fuel Pump Installation Set | | | 406039 |
| D400D | 3406 | 8TF1-Up | 70V1-Up | | | In Development | |
| D400E | 3406 | 9LR1-Up | 41Z1-Up | | | In Development | |
| | | | | Fuel Pump Installation Set | | | 406039 |
| D400E | 3406E | 8PS1-Up APF1-Up | 9AP1-1799 | Spacer Plated Turbocharged Engines | 406311 | 406312 | 406313 |
| D550 | 3408 | 4RD1-Up | 67U1-Up | | | In Development | |
| D550B | 3408 | 5ND1-Up | 67U1-Up | | | In Development | |
| TELEHANDLER | | | | | | | |
| RT80 | 3114 | 1GJ1-Up | 2FG1-Up | Dry Rear Housing | 114021 | 114012 | 114013 |
| INTEGRATED TOOLCARRIERS | | | | | | | |
| IT12 | 3204 | 2YC1-Up 4NC1-Up | 45V1-Up | | 204041 | 204042 | 204043 |
| IT12B | 3114 | 1KF1-819 | 2ZF1-Up | Wet Rear Housing | 114011 | 114012 | 114013 |
| IT12F | 3114 | 1KF820-Up | 2ZF1-Up | Wet Rear Housing | 114011 | 114012 | 114013 |
| IT14B | 3114 | 3NJ1-Up | 2ZF1-Up | Wet Rear Housing | 114011 | 114012 | 114013 |
| IT14F | 3114 | 4EL1-Up | 2ZF1-Up | Wet Rear Housing | 114011 | 114012 | 114013 |
| IT18 | 3204 | 7ZB1-Up 9NB1-Up | 45V1-Up | | 204041 | 204042 | 204043 |

| APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation) | | | ENGINE SERIAL # | REMARKS | OUT OF FRAME OVERHAUL | IN FRAME OVERHAUL | CYL HEAD REPLACE |
|--|------|-------------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|---------------------|
| IT18B | 3204 | 1DF1-Up 4ZD1-Up | 45V1-Up | | 204041 | 204042 | 204043 |
| IT18F | 3114 | 5EJ1-Up 6ZF1-Up | 2FG1-Up 97Z-Up | Wet Rear Housing | 114011 | 114012 | 114013 |
| IT24F | 3114 | 4NN1-Up 6NK1-Up | 97Z1-Up 4RR1-Up 2FG1-Up | Wet Rear Housing | 114011 | 114012 | 114013 |
| IT28 | 3204 | 8JB1-Up 2KC1-Up | 45V39562-Up | Turbocharged D.I. Engine | 204041 | 204042 | 204043 |
| IT28B | 3204 | 5SD1-Up 1HF1-Up 1JK1-Up | 45V39562-Up | Turbocharged D.I. Engine | 204041 | 204042 | 204043 |
| IT28G | 3116 | 9AR 1-Up | 4TF 1-Up | | 116021 | | 116023 |
| IT38G | 3126 | 1CW1-Up | 6JK 1-Up | | 3126071 | 3126072 | 3126073 |
| IT62H | C7 | M5G1-Up | C7C1-UP | | C70091 | C70092 | C70093 |



IPD PARTS ENGINE APPLICATIONS

CATERPILLAR[®]

C-Series (C6.4 C7, C9, C10, C12, C13, C15/C15 Acert, C18, C27, C32)

D3500 Series (D3508/D3512/D3516/D3524)

G3500 Series (G3508/G3512/G3516/G3520)

D3400E Series (D3406E/D3408E/D3412E)

D3400 Series (D3406/D3408/D3412)

G3400 Series (G3406/G3408/G3412)

D3300 Series (D3304/D3306)

G3300 Series (G3304/G3306)

3200 Series (3204/3208)

3100 Series (3114/3116/3126/3176C/3196)

3000 Series (3064/3066)

D300 Series (D333/D339/D342/D343/D346/D348/D353/D379/D398/D399)

G300 Series (G333/G342/G353/G379/G398/G399)

CUMMINS[®]

ISX/QSX, K19 Series (K19/KT19/KTA19/KTTA19)

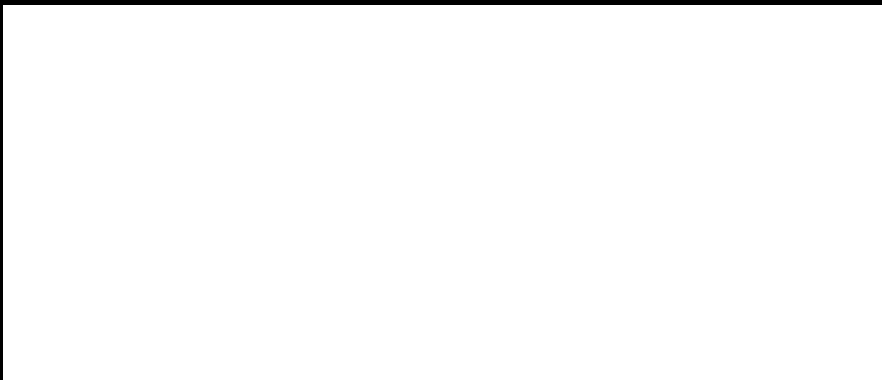
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60 Series , DD15

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