

BULLDOG®



Hydraulics & Gaskets

ALL IN ONE KIT CATALOG

Vol. 10

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BULLDOG® HYDRAULICS & GASKETS was originally founded in 1957 and acquired by its current owners in 2001. During its 50+ years of operation, Bulldog® Hydraulics & Gaskets has experienced rapid growth and has earned a reputation for excellent product quality, friendly customer service, and distinguished technical support. Bulldog® Hydraulics & Gaskets provides hydraulic and gasket products to a broad customer base. Both of these product areas have expanded to include extensive kit building capabilities that service and support several types of industries worldwide. Bulldog® Hydraulics & Gaskets stocking representatives are located in most major cities in North and South America, Europe, Africa, Asia, and the Pacific Rim.

Bulldog® Hydraulics & Gaskets currently operates a manufacturing, distribution, and administrative office facility located at the South Meadows Business Park in Reno, Nevada.

PRODUCT RANGE

Bulldog® Hydraulics & Gaskets stocks and maintains a large inventory of both hydraulic and gasket sealing products. Hydraulic sealing items such as rod seals, rod wipers, rod bearings, piston seals, wear rings, o-rings, back-up rings, and vee-packings are some of the many items that are stocked. Each of these items is designed and/or specified for the critical sealing applications of hydraulic cylinders and other demanding hydraulic sealing applications. Gasket sealing products such as soft gaskets, reinforced gaskets, and sealing products normally replaced along with gaskets (for example, oil seals, o-rings, and other elastomeric products) are also inventoried. Special attention is paid to the proper selection of gasket materials based upon application considerations. Bulldog® Hydraulics & Gaskets specializes in materials ranging from basic elastomers to highly advanced elastomeric compounds. This allows us to provide our customers with the most successful solutions to the broadest range of sealing applications.

KIT ASSEMBLY AND CUSTOM PACKAGING

Bulldog® Hydraulics & Gaskets maintains facilities specifically designed for the assembly of components into kits and other forms of custom packaging. Extensive capabilities have been developed to support the process of kit manufacturing and assembly. Customer requested kits can be easily documented and integrated into our kit assembly process. Custom packaging capabilities include the ability to apply part numbers to items, bags, and boxes. In addition, items can be boxed or placed on flat sheets (for example, corrugated sheets) for the application of labels and shrink-wrapping. These Bulldog® Hydraulics & Gaskets kit and packaging capabilities can offer substantial advantages to customers by providing them with pre assembled kits for service and repair needs. Pre assembled kits, when compared to individual components, can provide overall reductions in total product costs by reducing purchasing, receiving, quality control, and warehousing activities. In addition, pre assembled kits can increase customer serviceability and satisfaction.

TECHNICAL SUPPORT

The technical staff at Bulldog® Hydraulics & Gaskets has an in-depth knowledge of the sealing applications for many types of mobile equipment. Some of these applications include hydraulic cylinders and other hydraulic components, diesel engines, and transmissions. Our experience with sealing and gasket products allows us to provide technical support to customers and end users. The ability to provide recommendations based upon Bulldog® Hydraulics & Gaskets design standards, in addition to analyzing existing designs for potential improvements, are just some of the many advantages our technical staff may offer our customers.

HOURS OF OPERATION

Monday - Friday
7:30am - 4:30pm PST



www.bulldogkits.com

ISO 9001 Registered Company



ISO 9001

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SUMMARY

Bulldog® Hydraulics & Gaskets is committed to the development and production of the highest quality gasket kits and sealing components used in the repair of heavy duty, off-road construction, mining and logging equipment.

Our goal is to provide our customers with the finest products, highest availability, and the best customer service in the industry. Bulldog® Hydraulics and Gaskets has achieved a worldwide reputation by providing products and services that meet or exceed the expectations of our customers.

Information contained in this catalog is correct to the best of our knowledge at the time of publication. No responsibility, however, can be accepted for any inaccuracies or omissions that may have occurred.

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WARRANTY

WARRANTIES: Seller warrants that it is conveying good title to the products supplied hereunder, free of any security interest or other encumbrance of which Buyer has no knowledge, and that the products supplied hereunder are of merchantable quality, as defined in subparagraphs (a) through (f) of Section 2314 of the Uniform Commercial Code. Seller warrants its products to be free from defects in workmanship and materials.

DISCLAIMER OF WARRANTIES: The warranties specified in the above paragraph are Seller's sole warranties with respect to the products supplied hereunder, and Buyer acknowledges it is relying on no other warranty, either written or oral, concerning such products. SELLER HEREBY SPECIFICALLY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEEDS THE AFORE STATED WARRANTIES.

REMEDY FOR BREACH OF WARRANTY: If any product supplied hereunder is not as warranted above, Buyer shall return the product to Seller's plant as soon as possible after discovery of the defect, and in any event within 30 days after the date of purchase. If Seller determines that one of its above warranties has been breached, Seller shall replace the product, if a replacement is reasonably available, or refund the purchase price after charging, in either event, for the service rendered by the defective product.

LIMITATION OF LIABILITY: The remedy set forth in the preceding paragraph is the sole and exclusive remedy of Buyer for breach of the above warranties. SELLER'S LIABILITY SHALL IN NO EVENT EXCEED THE REPLACEMENT COST OF THE DEFECTIVE PRODUCT AND BUYER WAIVES ANY RIGHT TO CONSEQUENTIAL DAMAGES BEYOND THE REPLACEMENT COST OF THE DEFECTIVE PRODUCT.

INDEMNITY: Buyer shall indemnify and hold Seller harmless from and against all liability and expenses, including attorneys' fees, arising out of or attributable to the use of any equipment containing any product supplied hereunder.

REPAIRS: The warranties stated herein are void if repairs to the products supplied hereunder are done or attempted by anyone other than Seller, unless Buyer shall first have obtained Seller's written consent of such repairs.

CLAIMS: It is the policy of HB Sealing Products that inquiries for pricing discrepancies, order discrepancies, freight claims and customer returns must be reported to Hercules Sealing Products Customer Service within 30 days of invoice for domestic (U.S.) shipments and within 90 days for international shipments. Claims/discrepancies reported after these periods will not be honored.

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BULLDOG® ALL IN ONE GASKET KIT FORMAT**Example: BD-3306-039OF****BD** – Bulldog® product line**3306** – Engine family**039** – Bulldog® kit series**OF** – Kit type designation**BULLDOG® ALL IN ONE KIT PROGRAM**

Out of Frame Overhaul (OF) – contains all of the parts necessary to rebuild an engine completely out of frame. The kit will typically include the following:

- Cylinder head (valve grind) set
- Fuel injector O-rings (unless noted otherwise)
- Manifold gaskets & O-rings
- Turbo mounting gaskets & O-rings
- Aftercooler & lines set (mounting gaskets in 3406 truck app's)
- Cylinder block & oil pan set
- Cylinder liner kits (see note below for option to exclude these)
- Oil pump set
- Front cover & housing set (353 engine crankshaft seal excluded)
- Rear cover & housing set (353 engine crankshaft seal excluded)
- Fuel pump mounting gasket & O-rings
- Front/Rear PTO set
- Water pump gasket set
- Water lines set
- Oil cooler & lines set
- Air compressor mounting gasket

In Frame Overhaul (IF) – contains all of the parts necessary to rebuild an engine in frame. The kit will typically include the following:

- Cylinder head (valve grind) set
- Fuel injector O-rings (unless noted otherwise)
- Manifold gaskets & O-rings
- Turbo mounting gaskets & O-rings
- Aftercooler water lines set (mounting gaskets in 3406 truck app's)
- Oil pan gasket
- Cylinder liner kits (see note below for option to exclude these)
- Water pump mounting O-rings
- Oil lines set
- Air compressor mounting gasket

BULLDOG® ALL IN ONE KIT PROGRAM

Cylinder Head Replacement (HS) – contains all of the parts necessary to remove and replace all the cylinder heads for the engine. The kit will typically include the following:

- Cylinder head (valve grind) set
- Fuel injector O-rings (unless noted otherwise)
- Manifold gaskets & O-rings
- Turbo mounting gaskets & O-rings

Single Head Replacement (SH) – contains all of the parts necessary to remove and replace a single cylinder head on engines with more than one head. The kit will typically include the following:

- Cylinder head (valve grind) set
- Fuel injector O-rings (unless noted otherwise)
- Manifold gaskets
- All gaskets, seals & O-rings needed to replace head & connect adjacent head

Aftercooler (AC) – contains all of the parts necessary to install aftercoolers.

Oil Pump (OP) – contains all of the parts necessary to install oil pumps.

Turbocharger (TC) – contains all of the parts necessary to install turbochargers.

Water Pump (WP) – contains all of the parts necessary to install and or rebuild water pumps.

Note: All Bulldog® All In One In Frame and Out of Frame overhaul kits include the cylinder liner bands and O-Rings. To order these without the cylinder liner kits add an "X" suffix to the kit number.

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Agricultural Tractors						
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CH45	1DR1-UP	3116	98Z1-UP			Contact Bulldog
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CH65	7YC1-1899	3306	8Z1-UP	D.I. Engines Spacer Plated Aftercooled	Out of Frame Overhaul Cylinder Head Replacement	BD-3306-039OF BD-3306-039HS
CH65B	7YC1900-UP	3306	8Z1-UP	D.I. Engines Spacer Plated Aftercooled	Out of Frame Overhaul Cylinder Head Replacement	BD-3306-039OF BD-3306-039HS
CH65C	2ZJ1-1679	3306	8Z1-UP	D.I. Engines Spacer Plated Aftercooled	Out of Frame Overhaul Cylinder Head Replacement	BD-3306-039OF BD-3306-039HS
CH65D	2ZJ1680-UP	3306	8Z1-UP	D.I. Engines Spacer Plated Aftercooled	Out of Frame Overhaul Cylinder Head Replacement	BD-3306-039OF BD-3306-039HS

STEIGER		3306	66D12370-26831	P.C. Engines Non Spacer Plated	Out of Frame Overhaul Aftercooler & Lines (if required)	BD-3306-018OF CT-5P8772
STEIGER		3306	66D26832-UP	P.C. Engines Spacer Plated	Out of Frame Overhaul Aftercooler & Lines (if required)	BD-3306-019OF CT-5P8772
STEIGER		3406	6TB3571-UP	D.I. Engines Spacer Plated Aftercooled With 19 Bolt Flywheel Housing	Out of Frame Overhaul	BD-3406-020OF

Crawler Tractors (Dozers)						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
D3	6N1-UP 79U1-UP 82U1-UP 83U1-UP	3204	45V1-UP	P.C. & D.I. Engines Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-001OF BD-3204-001IF BD-3204-001HS
D3B	23Y1-UP 24Y1-UP	3204	45V1-32893	P.C. & D.I. Engines Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-001OF BD-3204-001IF BD-3204-001HS
D3B	23Y1-UP 24Y1-UP	3204	45V32894-40125	D.I. Engines Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-002OF BD-3204-002IF BD-3204-002HS
D3B	23Y1-UP 24Y1-UP	3204	45V40126-UP	D.I. Engines Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-006OF BD-3204-006IF BD-3204-006HS
D3B	27Y1-UP 28Y1-UP	3204	45V1-32939	P.C. & D.I. Engines Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-001OF BD-3204-001IF BD-3204-001HS
D3B	27Y1-UP 28Y1-UP	3204	45V32940-40209	D.I. Engines Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-002OF BD-3204-002IF BD-3204-002HS
D3B	27Y1-UP 28Y1-UP	3204	45V40210-UP	D.I. Engines Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-006OF BD-3204-006IF BD-3204-006HS
D3B D3C	3YC1-UP 5MC1-UP 1PJ1-UP 3RF1-UP 6PF1-UP 8BF1-UP	3204	45V48070-UP	D.I. Engines Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-006OF BD-3204-006IF BD-3204-006HS
D3B D3C	2PC1-UP 7JF1-UP	3204	45V40547-UP 45V70378-UP	D.I. Engines Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-004OF BD-3204-004IF BD-3204-004HS

Crawler Tractors (Dozers)						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
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D4D	59J1-1280 60J1-3269 61J1-641 82J1-3443 83J1-2176 84J1-1524	3304		Non Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-011OF BD-3304-001IF BD-3304-001HS
D4E	27X1-UP 28X1-UP 29X1-UP 50X1-UP 51X1-UP 52X1-UP 68X1-UP 69X1-UP 70X1-UP 71X1-UP 72X1-UP	3304	78P1-47087 43V1-19033 48V1-UP 48V1-52810 48V1-UP 48V1-52810	Non Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-003OF BD-3304-003IF BD-3304-003HS
D4E	27X1-UP 28X1-UP 29X1-UP 50X1-UP 51X1-UP 52X1-UP 68X1-UP 69X1-UP 70X1-UP 71X1-UP 72X1-UP	3304	78P47088-UP 43V19034-UP 48V1-UP 48V52811-UP 48V1-UP 48V52811-UP	Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-005OF BD-3304-005IF BD-3304-005HS
D4E	27X1-UP 28X1-UP 29X1-UP 68X1-UP 69X1-UP 70X1-UP 71X1-UP 72X1-UP	3304	7Z1-UP 12Z1-UP	Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-006OF BD-3304-006IF BD-3304-006HS
D4E	27X1-UP 28X1-UP 29X1-UP 68X1-UP 69X1-UP 70X1-UP 71X1-UP 72X1-UP	3304	7Z1-UP 12Z1-UP	Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-008OF BD-3304-008IF BD-3304-008HS

Crawler Tractors (Dozers)						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
D4H	2AC1-UP 3AC1-UP 8PB1-UP 8ZF1-UP 9DB1-UP	3204	45V39556-UP	D.I. Engines Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-004OF BD-3204-004IF BD-3204-004HS
D4H	4NK1-UP 8PJ1-UP 9GJ1-UP	3304	9Z1-UP	Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-008OF BD-3304-008IF BD-3304-008HS

Crawler Tractors (Dozers)						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
D5	62J1-654 63J1-953 93J1-731 94J1-1932 95J1-356 96J1-3587 98J1-1133	3306		Non Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-004OF BD-3306-004IF BD-3306-004HS
D5 D5B	67J1-UP 68J1-UP 93J732-UP 94J1933-UP 95J357-UP 96J3588-UP 97J1-UP 98J1134-UP 22X1-UP 23X1-UP 24X1-UP 25X1-UP 26X1-UP 48X1-UP 49X1-1295	3306	44V1-UP 3N1-79762 44V1-UP 3N1-79762 44V1-22230 44V1-22252	Non Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-003OF BD-3306-003IF BD-3306-003HS
D5B	22X1-UP 23X1-UP 24X1-UP 25X1-UP 26X1-UP 48X1-UP 49X1296-UP	3306	3N79763-UP 44V22231-UP 44V22253-UP	Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-001OF BD-3306-001IF BD-3306-001HS
D5B	22X439-UP 23X778-UP 24X413-UP 25X1815-UP 26X878-UP 43X722-UP 44X1111-UP 45X422-UP 46X724-UP 47X520-UP 48X589-UP 49X1412-UP 21Y558-UP 5LD1-UP 8HD1-UP 8MB724-UP	3306	8Z1-UP 13Z1-UP 10Z1-UP 13Z1-UP 1AF1-UP 13Z6226-UP	Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-007OF BD-3306-007IF BD-3306-007HS
D5C	3MK1-UP 6PJ1-UP	3204	45V97770-UP 7YJ1-UP	Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-009OF BD-3204-009IF BD-3204-009HS
D5H	1DD1-UP 7NC1-UP 8RC1-UP 9HC1-UP	3304	12Z10967-UP	Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-009OF BD-3304-009IF BD-3304-009HS

Crawler Tractors (Dozers)						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
D6C	46J1-868 47J1-2559 99J1-1753 10K1-7952 17R1-464	3306		Non Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-004OF BD-3306-004IF BD-3306-004HS
D6C	46J869-UP 47J2560-UP 99J1754-UP 10K7953-UP 17R465-UP 69U316-UP	3306	49V1-UP 3N1-UP	Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Aftercooler & Lines (if required)	BD-3306-010OF BD-3306-010IF BD-3306-010HS CT-5P8772
D6D	19X1-UP 20X1-UP	3306	49V1-24230	Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Aftercooler & Lines (if required)	BD-3306-003OF BD-3306-003IF BD-3306-003HS CT-5P8772
D6D	19B1-UP 3X1-UP 4X1-UP 5X1-UP 6X1-UP 30X1-UP 31X1-UP 32X1-UP	3306	47V1-17093 3N1-79762 3N1-77760 3N1-79762 44V1-22350 44V1-22286 44V1-22350	Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Aftercooler & Lines (if required)	BD-3306-011OF BD-3306-011IF BD-3306-011HS CT-5P8772
D6D	19B1-UP 3X1-UP 4X1-UP 5X1-UP 6X1-UP 19X1-UP 20X1-UP 30X1-UP 31X1-UP 32X1-UP	3306	47V17094-UP 3N79763-UP 3N77761-UP 3N79763-UP 49V24231-UP 44V22351-UP 44V22287-UP 44V22351-UP	Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement *Aftercooler & Lines (if required)	BD-3306-002OF *BD-3306-002IF *BD-3306-002HS *CT-5P8772
D6D D6E	36C1-UP 37C1-UP 38C1-UP 74W1-UP 75W1-UP 7XF1-UP 9FK1-UP 2MJ1-UP 8FG1-UP	3306	1AF1-UP 8TD1-UP 1AF1-UP 8TD1-UP 1AF1-UP 8TD1-UP			Contact Bulldog

Crawler Tractors (Dozers)						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
D6D	3X1-UP 4X1-UP 5X1-UP 6X1-UP 30X1-UP 31X1-UP 32X1-UP 33X1-UP 6HC1-UP 19X1-UP 20X1-UP 1Y1-UP	3306	8Z1-UP 10Z1-UP 13Z1-UP	Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Aftercooler & Lines (if required)	BD-3306-024OF BD-3306-024IF BD-3306-024HS CT-5P8772
D6H	3YG1-UP 3ZF1-UP 4RC1-UP 5KK1-UP 6CK1-UP 6FC1-UP 8KB1-UP 8ZJ1-UP 9KJ1-UP 1KD1-UP 2DK1-UP 2TL1-UP 3ED1-UP 4GG1-UP 4YF1-UP 7ZK1-UP 8FC1-UP 8SK1-UP 9RK1-UP 1FJ1-UP 1YL1-UP 2BL1-UP 2TG1-UP 4LG1-UP 5HF1-UP 6CF1-UP 7PC1-UP 8KK1-UP 8YC1-UP 9KL1-UP	3306	8Z1-UP 10Z1-UP 13Z1-UP	Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Aftercooler & Lines (if required)	BD-3306-024OF BD-3306-024IF BD-3306-024HS CT-5P8772

Crawler Tractors (Dozers)						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
D7F	93N1-1174 94N1-5191	3306		Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-004OF BD-3306-004IF BD-3306-004HS
D7G	64V1-UP 65V1-UP 44W1-UP 45W1-UP 91V1-UP 92V1-UP 72W1-UP	3306	44V1-22402* 3N1-79762	*Non Spacer Plated (check engine for spacer) Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Aftercooler & Lines (if required)	BD-3306-011OF BD-3306-011IF BD-3306-011HS CT-5P8772
D7G	64V1-UP 65V1-UP 44W1-UP 45W1-UP 35N1-UP 91V1-UP 92V1-UP 72W1-UP	3306	44V22403-UP* 3N79763-UP 62Z1-UP 3N79763-UP	P.C. Engines *Spacer Plated (check engine for spacer) Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement *Aftercooler & Lines (if required)	BD-3306-002OF *BD-3306-002IF *BD-3306-002HS *CT-5P8772
D7G D7H	91V1-UP 92V1-UP 72W1-UP 77Z1-UP 79Z1-UP 80Z1-UP 3XG1-UP 4FG1-UP 5BF1-UP	3306	8Z1-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Aftercooler & Lines (if required)	BD-3306-025OF BD-3306-025IF BD-3306-025HS CT-5P8772

Crawler Tractors (Dozers)						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
D8H	36A1-4468 46A1-10724 68A1-1002	D342		Non Spacer Plated Turbocharged *Rear Crankshaft Seal not included	Out of Frame Overhaul* In Frame Overhaul Cylinder Head Replacement Single Head Replacement	BD-342-002OF Contact Bulldog BD-342-002HS BD-342-002SH
D8H	36A4469-UP 46A10725-UP	D342		Non Spacer Plated T-12 or T-18 Turbo *Rear Crankshaft Seal not included	Out of Frame Overhaul* In Frame Overhaul Cylinder Head Replacement Single Head Replacement	BD-342-003OF Contact Bulldog BD-342-003HS Contact Bulldog
D8K	66V1-2992 76V1-600 77V1-8528	D342	50V1-UP 17S1-UP	Non Spacer Plated Turbocharged *Rear Crankshaft Seal not included	Out of Frame Overhaul* In Frame Overhaul Cylinder Head Replacement Single Head Replacement	BD-342-001OF Contact Bulldog BD-342-001HS Contact Bulldog
D8K	66V2993-UP 76V601-UP 77V8529-UP	D342	50V1-UP 17S1-UP	Spacer Plated Turbocharged *Rear Crankshaft Seal not included	Out of Frame Overhaul* In Frame Overhaul Cylinder Head Replacement Single Head Replacement	BD-342-004OF Contact Bulldog BD-342-004HS BD-342-001SH
D8L	53Y1-UP 7JC1-UP 7YB1-UP	3408	48W13008-17791 77M1-UP	Non Aftercooled Turbocharged	Out of Frame Overhaul	BD-3408-012OF
D8L	4FB1-UP	3408	48W17792-UP	Aftercooled Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3408-002OF BD-3408-002IF BD-3408-002HS
D8N	1XJ1-UP 9TC1-UP	3406	11N1-UP 70V24187-UP	Non Aftercooled With 24 Bolt Flywheel Housing	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-007OF BD-3406-007IF BD-3406-007HS
D8N	5TJ1-UP	3406	11N4939-UP	Non Aftercooled With 24 Bolt Flywheel Housing	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-030OF BD-3406-030IF BD-3406-030HS
D8N	7TK1-UP	3406	11N7050-UP	Aftercooled With 19 Bolt Flywheel Housing	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-019OF BD-3406-019IF BD-3406-019HS
D8R	7XM1-UP 9EM1-UP	3406 3406C	11N12940-UP 41Z286-UP	Aftercooled With 24 Bolt Flywheel Housing	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-030OF BD-3406-030IF BD-3406-030HS
D8R	AKA1-UP 6YZ1-UP	3406E	BET1-UP	Spacer Plated Turbocharged		Contact Bulldog

Crawler Tractors (Dozers)						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
D9G	66A1-1644	D353		P.C. Engines Non Spacer Plated	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	Contact Bulldog Contact Bulldog BD-353-006HS
D9G	66A1645-UP	D353		P.C. Engines Non Spacer Plated	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	Contact Bulldog Contact Bulldog BD-353-007HS
D9H	12U1-UP 90V1-UP 97V1-UP 98V1-UP 99V1-UP	D353	97U1-7921	P.C. Engines Non Spacer Plated	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog BD-353-008HS BD-353-008SH
D9H	12U1-UP 90V1-UP 97V1-UP 98V1-UP 99V1-UP	D353	97U7922-UP	P.C. Engines Spacer Plated	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog BD-353-001HS BD-353-001SH
D9L	14Y1-UP	3412	73W1224-UP	D.I. Engines	Out of Frame Overhaul	BD-3412-003OF
D9N	1JD1-UP 6XJ1-UP	3408	48W23086-UP 48W35650-UP	D.I. Engines	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3408-010OF BD-3408-010IF BD-3408-010HS
D9R	7TL1-UP 8BL1-UP	3408E	99C1-UP 48W37000-UP	HEUI® Engines Injector O-Rings are NOT included	Out of Frame Overhaul Cylinder Head Replacement	Contact Bulldog BD-3408-016HS

Crawler Tractors (Dozers)						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
D10N	2YD1-UP	3412	73W8338-UP	D.I. Engines	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement	BD-3412-006OF BD-3412-006IF BD-3412-006HS BD-3412-006SH
D10R	3KR1-UP	3412E	80M1-UP	HEUI® Engines Injector O-Rings are NOT included	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	BD-3412-013OF BD-3412-013HS BD-3412-013SH

D11N	74Z1-UP	3508	99W1-UP		Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog BD-3508-001SH
D11N	4HK1-UP	3508	7YG203-UP		Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog BD-3500-002SH
D11R	8ZR1-UP	3508	7YG1-UP			Contact Bulldog
D11R	7PZ1-UP 9TR1-UP 9XR1-UP	3508B	2GR1-UP	EUI Engines	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog BD-3508-008SH

Motor Graders						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
12F	89H1-1537 13K1-5286	3306		Non Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-004OF BD-3306-004IF BD-3306-004HS
12F	89H1-1537 13K1-5286	3306	3N1-79762	Non Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-003OF BD-3306-003IF BD-3306-003HS
12G	61M1-UP					
12F	89H1538-UP 13K5287-UP	3306	3N79763-UP	Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-001OF BD-3306-001IF BD-3306-001HS
12G	61M1-UP					
12G	61M1-UP 3WC1-UP	3306	8Z1-UP	Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-007OF BD-3306-007IF BD-3306-007HS
12H	4ER1-UP 8MN1-UP					
12G	61M1-UP 3WC1-UP	3306	8Z1-UP	Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-024OF BD-3306-024IF BD-3306-024HS
12H	4ER1-UP 8MN1-UP					
12HES	2LR1-UP	3306	8Z1-UP			Contact Bulldog
12HNA	4XM1-UP					

14E	72G1-1340 12K1-2198	3306		Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-014OF BD-3306-014IF BD-3306-014HS
14E	72G1-UP 12K1-UP	3306	3N1-79762	Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-015OF BD-3306-015IF BD-3306-015HS
14G	96U1-UP					
14E	72G1-UP 12K1-UP	3306	3N79763-UP	Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-002OF BD-3306-002IF BD-3306-002HS
14G	96U1-UP					
14G	96U4298-UP	3306	8Z1-UP	Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-024OF BD-3306-024IF BD-3306-024HS
14H	7WJ1-UP					

16G	93U1179-2678	3406	70V4105-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-023OF BD-3406-023IF BD-3406-023HS
16G	93U2679-UP	3406	70V36899-UP 11N1449-UP	DITA Engines With 24 Bolt Flywheel Housing	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-028OF BD-3406-028IF BD-3406-028HS
16HNA	6ZJ1-UP	3406	11N13000-UP 41Z1-UP	DITA Engines With 24 Bolt Flywheel Housing	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-028OF BD-3406-028IF BD-3406-028HS

Motor Graders						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
112F	80J1-401 89J1-1895	3304	78P1-UP	Non Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-011OF BD-3304-001IF BD-3304-001HS
112F	80J402-UP 89J1896-UP	3304	78P1-UP	Non Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-003OF BD-3304-003IF BD-3304-003HS

120	14K1-2263 10R1-2881 13U1-777	3306		Non Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-004OF BD-3306-004IF BD-3306-004HS
120 120B	10R2882-UP 13U778-UP 32C100-UP 64U1-UP	3306	3N1-UP 47V1-UP 60Z1-UP	Non Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-003OF BD-3306-003IF BD-3306-003HS
120G	82V1-UP 87V1-UP	3304	78P1-47087	Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-004OF BD-3304-004IF BD-3304-004HS
120G	82V1-UP 87V1-UP	3304	78P47088-UP	Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-007OF BD-3304-007IF BD-3304-007HS
120G	87V5275-UP 11W1251-UP 4HD1-UP	3304	7Z1-UP 9CB1-UP	Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-008OF BD-3304-008IF BD-3304-008HS
120H	5FM1-UP 6TM1-UP	3116	98Z1-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-003OF BD-3116-002HS
120HES	6NM1-UP	3116	98Z1-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-003OF BD-3116-002HS
120HNA	2AN1-UP 4MK1-UP	3116	98Z1-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-003OF BD-3116-002HS

Motor Graders						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
130G	74V1-UP	3304	78P1-47087	Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-004OF BD-3304-004IF BD-3304-004HS
130G	74V1340-UP	3304	78P47088-UP	Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-007OF BD-3304-007IF BD-3304-007HS
130G	74V1-UP 12W1082-UP	3304	7Z1-UP	Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-008OF BD-3304-008IF BD-3304-008HS

135H	8WN1-UP	3116	98Z1-UP			Contact Bulldog
135HNA	3YK1-UP	3116	98Z1-UP			Contact Bulldog

140	11R1-690 14U1-430	3306		Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-014OF BD-3306-014IF BD-3306-014HS
140G	72V1-UP 81V1-UP	3306	3N1-79762	Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-015OF BD-3306-015IF BD-3306-015HS
140G	72V1-UP	3306	3N79763-UP	Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-002OF BD-3306-002IF BD-3306-002HS
140G	72V1-UP 13W741-UP	3306	8Z1-UP 6NC1-UP 8Z1-UP 6NC1-UP	Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-024OF BD-3306-024IF BD-3306-024HS
140H	5MD1-UP 5HM1-UP 8JM1-UP 8KM1-UP		8TD1-UP 8Z1-UP 8TD1-UP 6NC1-UP 8Z1-UP 6NC1-UP			
140HES	3AS1-UP	3306	8TD1-UP			Contact Bulldog
140HNA	2ZK1-UP 9TN1-UP	3306	8Z1-UP 6NC1-UP 8Z1-UP 6NC1-UP 8TD1-UP			Contact Bulldog

Motor Graders						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
143HNA	1AL1-UP	3306	8Z1-UP 6NC1-UP			Contact Bulldog
160G	4JD1-UP	3306	8Z1-UP			Contact Bulldog
160H	2FM1-UP 3GM1-UP	3306	8Z1-UP 6NC1-UP 8TD1-UP			Contact Bulldog
160HES	2HS1-UP	3306	8Z1-UP 6NC1-UP 8TD1-UP			Contact Bulldog
160HES	6WM1-UP	3306	8Z1-UP	Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-024OF BD-3306-024IF BD-3306-024HS
160HNA	9EJ1-UP	3306	8Z1-UP 6NC1-UP			Contact Bulldog
163HNA	5AK1-UP	3306	8Z1-UP 6NC1-UP			Contact Bulldog

Excavators & Loggers						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
205B	5ZF1-UP	3114	2FG1-UP			Contact Bulldog
206B	9BF1-UP	3114	2FG1-UP			Contact Bulldog
211B	6XG1-UP	3114	2FG1-UP			Contact Bulldog
212B	3PJ1-UP	3114	2FG1-UP			Contact Bulldog
213B	1EJ1-UP	3116	4TF1-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-003OF BD-3116-002HS
214B	4CF1-UP	3116	4TF1-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-003OF BD-3116-002HS
214BFT	9MF1-UP	3116	4TF1-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-003OF BD-3116-002HS

Excavators & Loggers						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
215	96L1-UP	3304	48V20897-UP	Non Turbocharged	Out of Frame Overhaul	BD-3304-010OF
215	57Y857-UP 14Z649-UP 61Z139-UP	3204	10X1-UP 10X5411-UP 10X5411-UP	Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-005OF BD-3204-005IF BD-3204-005HS
215	95Z1-UP	3304	12Z1-UP			Contact Bulldog
215B	4FC1-UP	3304	12Z1-UP			Contact Bulldog
215B	9YB1-UP	3304	12Z6564-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-009OF BD-3304-009IF BD-3304-009HS
215B	2XC1-UP 3LC1-UP	3204	45V35841-UP	Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-005OF BD-3204-005IF BD-3204-005HS
215C	4HG1-UP	3304	12Z21782-UP		Out of Frame Overhaul	BD-3304-009OF
215D	9TF1-UP	3304	12Z1-UP			Contact Bulldog
219	5CF1-UP	3304	12Z1-UP			Contact Bulldog
219D	5XG1-UP	3304	12Z34785-UP		Out of Frame Overhaul	BD-3304-009OF
224B	7WF1-UP	3116	4TF1-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-003OF BD-3116-002HS

Excavators & Loggers						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
225	51U2832-UP 61X381-UP	3208	79V4927-UP	Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3208-005OF BD-3208-005IF BD-3208-005HS
225	76U1-3764	3304	48V1-UP	P.C. Engines Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-004OF BD-3304-004IF BD-3304-004HS
225B	2ZD1-UP	3208	79V1-UP			Contact Bulldog
225B	3YD1-UP	3304	12Z16568-UP		Out of Frame Overhaul	BD-3304-009OF
225D	2SJ1-UP	3208	79V1-UP			Contact Bulldog
225DLC	6RG1-UP	3304	12Z32562-UP		Out of Frame Overhaul	BD-3304-009OF
227	10W1-UP	3208	79V8432-UP			Contact Bulldog
229	1GF1-UP	3208	79V1-UP			Contact Bulldog
229	1AG1-UP	3304	12Z16568-UP		Out of Frame Overhaul	BD-3304-009OF
229D	2LJ1-UP	3304	12Z32562-UP		Out of Frame Overhaul	BD-3304-009OF
231D	1NK1-UP 5WJ1-UP	3208	79V19550-UP 79V22200-UP		Out of Frame Overhaul Turbo Mounting	BD-3208-005OF CT-6V8045

Excavators & Loggers						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
235	32K1-2676 64R1-1257 62X1-288 81X1-407 83X1-443	3306	3N1-79762 49V1-24220 3N1-79762 49V1-24220	P.C. Engines Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-015OF BD-3306-015IF BD-3306-015HS
235	32K1622-2676 62X285-288 81X366-407	3306	3N79763-UP	P.C. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-002OF BD-3306-002IF BD-3306-002HS
235	32K2677-UP 64R1258-UP 62X289-UP 81X408-UP 83X444-UP	3306	8Z1-UP 6NC1-UP 13Z1-UP 8Z1-UP 6NC1-UP 8Z1-UP 6NC1-UP 13Z1-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-037OF BD-3306-037IF BD-3306-037HS
235B	1FD1-UP 4ED1-UP 7WC1-UP 9PC1-UP	3306	8Z30441-41869 13Z10595-15162 8Z30441-41869 13Z10595-15162	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-037OF BD-3306-037IF BD-3306-037HS
235C	2PG1-UP 3WG1-UP 4DG1-UP 5AF1-UP	3306	13Z15163-UP 8Z41870-UP 6NC1-UP 13Z15163-UP 8Z41870-UP 6NC1-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Aftercooler & Lines (if required)	BD-3306-037OF BD-3306-037IF BD-3306-037HS CT-5P8772
235D	8KJ1-UP	3306	8Z66174-UP 6NC1-UP		Out of Frame Overhaul	BD-3306-037OF
235D	8TJ1-UP	3306	13Z1-UP			Contact Bulldog
245	95V731-UP 82X475-UP 84X1-UP	3406	70V5678-UP	P.C. or D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-009OF BD-3406-009IF BD-3406-009HS
245B	1SJ1-712 6MF1-512	3406	70V26356-UP	Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-018OF Contact Bulldog BD-3406-018HS
245B	1SJ713-UP 6MF513-UP	3406	11N1-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-018OF Contact Bulldog BD-3406-018HS
245D	4LK1-UP 7ZJ1-UP	3406	11N1-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-018OF Contact Bulldog BD-3406-018HS

Excavators & Loggers						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
320	4ZJ1-UP	3116	1CK1-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-003OF
	7WK1-UP		4TF1-UP			BD-3116-002HS
320L	1TL1-UP	3116	1CK1-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-003OF
	3XK1-UP		4TF1-UP			BD-3116-002HS
320N	9WG1-UP	3116	4TF1-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-003OF BD-3116-002HS
320S	6KM1-UP	3116	4TF1-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-003OF BD-3116-002HS

322	7WL1-UP	3116	1CK1-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-003OF BD-3116-002HS
322B	3NR1-UP	3116	1CK1-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-003OF
	5CR1-UP		4TF1-UP			BD-3116-002HS
322BL	1AS1-UP	3116	98Z16500-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-003OF
	1YS1-UP		1CK1-UP			BD-3116-002HS
	8NR1-UP		4TF1-UP			
322L	8CL1-UP	3116	98Z4000-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-003OF
	8ML1-UP		1CK1-UP			BD-3116-002HS
	9RL1-UP		4TF11600-UP			
322LN	4RM1-UP	3116	4TF11600-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-003OF BD-3116-002HS
322N	9JL1-UP	3116	4TF1-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-003OF BD-3116-002HS

Excavators & Loggers						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
325	5WK1-UP 6RM1-UP 7TG1-UP 8JG1-UP 8NL1-UP 8YK1-UP 9SG1-UP 9ZK1-UP	3116	1CK1-UP 98Z1-UP 4TF2472-UP 1CK1-UP 4TF2472-UP 1CK1-UP 98Z1-UP 4TF2472-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-003OF BD-3116-002HS
325B	8GM1-UP 8PR1-UP	3116	4TF1-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-003OF BD-3116-002HS
325BL	1GS1-UP 2JR1-UP 7EN1-UP 8RR1-UP	3116	1CK1-UP 98Z1-UP 1CK1-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-003OF BD-3116-002HS
325L	2JK1-UP 2SL1-UP 6KK1-UP 7CJ1-UP 7LJ1-UP 7LM1-UP 8NK1-UP	3116	98Z1-UP 4TF2472-UP 1CK1-UP 4TF2472-UP 98Z1-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-003OF BD-3116-002HS
325LN	2SK1-UP 3LL1-UP	3116	4TF2472-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-003OF BD-3116-002HS

330	8RL1-UP 9NG1-UP 9PJ1-UP 9WJ1-UP	3306	10Z1-UP			Contact Bulldog
330	2ZM1-UP	3306	8Z1-UP			Contact Bulldog
330	6ZK1-UP	3306	13Z1-UP			Contact Bulldog
330BL	6DR1-UP	3306	8Z91662-UP 6NC1-UP		Out of Frame Overhaul	BD-3306-037OF
330L	5YM1-UP	3306	8Z1-UP			Contact Bulldog
330L	6SK1-UP 6WJ1-UP 8FK1-UP 9ML1-UP	3306	10Z1-UP			Contact Bulldog
330L 330LN	2EL1-UP 8CK1-UP	3306	13Z1-UP			Contact Bulldog

Excavators & Loggers						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
350 350L	7RK1-UP 9DK1-UP	3306	10Z1-UP			Contact Bulldog
350 350L	2ZL1-UP 3ML1-UP	3306	8Z70000-UP 6NC1-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-037OF BD-3306-037IF BD-3306-037HS
350 350L	8HK1-UP 9FL1-UP	3306	13Z29000-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-037OF BD-3306-037IF BD-3306-037HS
375 375L	6NK1-UP 8WJ1-UP 8XG1-UP 1JM1-UP 6RL1-UP 9WL1-UP	3406 3406C	11N1-UP 41Z1787-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-018OF Contact Bulldog BD-3406-018HS
5080	6XK1-UP 8SL1-UP	3406	11N1-UP			Contact Bulldog
5130	5ZL1-UP 7TJ1-UP	3508	7YG1-UP			Contact Bulldog
5130B	4CS1-UP	3508B	2GR1-UP	EUI Engines	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog BD-3508-008SH

Excavators & Loggers						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
E110B	5GK1-UP 8MF1-UP	3114	2ZF1-UP			Contact Bulldog
E120B	4XK1-UP 6JF1-UP	3114	2ZF1-UP			Contact Bulldog
E180	1RF1-UP	3204	45V1-UP			Contact Bulldog
EL180	4EF1-UP	3204	45V1-UP			Contact Bulldog
E200B	6KF1-UP	3116	4TF1-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-003OF BD-3116-002HS
EL200B	7DF1-UP	3116	1CK1-UP 4TF1-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-003OF BD-3116-002HS
E240	1FG1-UP	3304	9Z1-UP			Contact Bulldog
EL240	4JF1-UP	3304	9Z1-UP			Contact Bulldog
E240B	8SF1-UP 9PF1-UP	3116	1CK1-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-003OF BD-3116-002HS
EL240B	5WG1-UP 6MG1-UP	3116	1CK1-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-003OF BD-3116-002HS
E240C	2RL1-UP	3116	1CK1-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-003OF BD-3116-002HS
EL240C	9PC1-UP	3116	1CK1-UP			Contact Bulldog

Excavators & Loggers						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
E300	2CF101-UP	3306	10Z9394-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Aftercooler & Lines (if required)	BD-3306-037OF BD-3306-037IF BD-3306-037HS CT-5P8772
E300B	1WJ1-UP	3306	10Z16955-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Aftercooler & Lines (if required)	BD-3306-037OF BD-3306-037IF BD-3306-037HS CT-5P8772
EL300	4NF101-UP	3306	10Z9394-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Aftercooler & Lines (if required)	BD-3306-037OF BD-3306-037IF BD-3306-037HS CT-5P8772
EL300B	3FJ1-UP	3306	10Z16955-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Aftercooler & Lines (if required)	BD-3306-037OF BD-3306-037IF BD-3306-037HS CT-5P8772

Backhoe Loaders						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
446	6XF1-UP	3114	2FG1-UP			Contact Bulldog
446B	5BL1-UP	3114	97Z1-UP 2FG1-UP			Contact Bulldog
446B	5BL1-2499	3114	4RR1-UP			Contact Bulldog
446D	DBL1-UP	3114	2FG1-UP			Contact Bulldog

Skidders						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
508	2HD1-UP 9NC1-UP	3204	45V1-UP 7YJ1-UP			Contact Bulldog
515	4LR1-UP	3304	7Z1-UP			Contact Bulldog
518	50S1-596 55U1-151	3304		P.C. Engines Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-002OF BD-3304-002IF BD-3304-002HS
518	50S597-UP 55U152-UP	3304	78P1-47087	P.C. Engines Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-004OF BD-3304-004IF BD-3304-004HS
518	50S2337-UP 55U486-UP	3304	78P47088-UP	P.C. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-007OF BD-3304-007IF BD-3304-007HS
518	94U1-2499 95U1-3199	3304	7Z1-22263	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-008OF BD-3304-008IF BD-3304-008HS
518 518C	94U2500-UP 95U3200-UP 1CL1-UP 9HJ1-UP	3304	7Z22264-UP 7Z28000-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	Contact Bulldog BD-3304-008IF BD-3304-008HS
525	1DN1-UP	3304	7Z31733-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-008OF BD-3304-008IF BD-3304-008HS
525B	3KZ1-UP	3126	55K1-UP			Contact Bulldog

Skidders						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
528	51S1-67	3306		P.C. Engines Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-014OF BD-3306-014IF BD-3306-014HS
528	51S68-UP 78W1-280	3306	3N1-79762	P.C. Engines Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-015OF BD-3306-015IF BD-3306-015HS
528	51S474-UP 78W281-365	3306	3N79763-UP	P.C. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-002OF BD-3306-002IF BD-3306-002HS
528	96C1-UP 97C1-UP 78W366-UP	3306	8Z17443-UP 8Z977-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-024OF BD-3306-024IF BD-3306-024HS
530B	5BK1-UP	3306	8Z1-UP			Contact Bulldog
D5H	7EG1-UP	3304	9Z1-UP			Contact Bulldog

Pipelayers						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
561C	92J1-390	3306		P.C. Engines Non Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-004OF BD-3306-004IF BD-3306-004HS
561C 561D	92J391-UP 54X1-503	3306	3N1-79762	P.C. Engines Non Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-003OF BD-3306-003IF BD-3306-003HS
561C 561D	92J512-UP 54X302-503	3306	3N79763-UP	P.C. Engines Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-001OF BD-3306-001IF BD-3306-001HS
561D	54X504-UP	3306	8Z446-UP	D.I. Engines Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-007OF BD-3306-007IF BD-3306-007HS
571F 572F	95N1-192 96N1-178	3306		P.C. Engines Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-004OF BD-3306-004IF BD-3306-004HS
571F 571G 572F 572G	95N193-UP 16W1-407 96N179-UP 40U1-970	3306	3N1-79762	P.C. Engines Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-011OF BD-3306-011IF BD-3306-011HS
571F 571G 572F 572G	95N238-UP 16W408-UP 96N179-UP 40U630-970	3306	3N79763-UP	P.C. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-002OF BD-3306-002IF BD-3306-002HS
571G 572G	16W516-UP 5ZD1-UP 40U971-UP 8PC1-UP	3306	8Z16129-UP 10Z12071-UP 8Z16129-UP 10Z7130-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-025OF BD-3306-025IF BD-3306-025HS
578	8HB1-UP	3406	70V1-UP			Contact Bulldog
589	31Z1-UP	3408	48W18080-UP		Out of Frame Overhaul	BD-3408-011OF

Wheel Tractors & Scrapers						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
613B	38W1-5538	3160 Front Eng	79V1-5380	Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	Contact Bulldog BD-3208-001IF BD-3208-001HS
613B	38W5539-UP	3208 Front Eng	79V5381-UP	Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3208-001OF BD-3208-001IF BD-3208-001HS
613C	92X1-UP	3208 Front Eng	79V1-UP			Contact Bulldog
613C	93X2780-UP	3116 Front Eng	98Z1003-UP 4TF1-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-002OF BD-3116-002HS
613C	8LJ1-UP	3116 Front Eng	4TF1-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-002OF BD-3116-002HS

615	46Z1-UP	3306 Front Eng	8Z7769-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Aftercooler & Lines (if required)	BD-3306-036OF BD-3306-006IF BD-3306-006HS CT-5P8772
615C	5TF1-UP 2XG1-UP 9XG1-UP	3306 Front Eng	8Z42148-UP 6NC1-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Aftercooler & Lines (if required)	BD-3306-036OF BD-3306-006IF BD-3306-006HS CT-5P8772

621B	45P1-UP	3406 Front Eng	70V3145-UP	Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-016OF Contact Bulldog BD-3406-016HS
621E	2PD1-UP 6AB1-UP	3406 Front Eng	70V22151-UP 11N1-7399	Spacer Plated Turbocharged With 19 Bolt Flywheel Housing	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-024OF BD-3406-024IF BD-3406-024HS
621F	4SK1-UP 8PL1-UP	3406 Front Eng	11N7400-UP 41Z469-UP	Spacer Plated Turbocharged With 24 Bolt Flywheel Housing	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-029OF BD-3406-029IF BD-3406-029HS
621G	ALP1-UP CEN1-UP	3406E	BET1-UP	Spacer Plated Turbocharged		Contact Bulldog

Wheel Tractors & Scrapers						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
623B	46P1-UP	3406 Front Eng	70V3145-UP	Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-016OF Contact Bulldog BD-3406-016HS
623E	6CB1-UP 6YF1-UP	3406 Front Eng	70V22151-UP 11N1-UP	Spacer Plated Turbocharged With 19 Bolt Flywheel Housing	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-024OF BD-3406-024IF BD-3406-024HS
623F	5EW1-UP 6BK1-UP	3406C Front Eng	11N7400-UP 41Z504-UP	Spacer Plated Turbocharged With 24 Bolt Flywheel Housing	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-029OF BD-3406-029IF BD-3406-029HS
623G	ARW1-UP CES1-UP	3406E	BET1-UP	Spacer Plated Turbocharged		Contact Bulldog

627	54K1-842 68M1-788	3306 Front Eng		P.C. Engines Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Aftercooler & Lines (if required)	BD-3306-012OF BD-3306-012IF BD-3306-012HS CT-5P8772
	50K1-831 69M1-789	3306 Rear Eng				
627B	14S1-UP 15S1-UP	3306 Front Eng	3N1-79762	P.C. Engines Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement *Aftercooler & Lines (if required)	BD-3306-013OF *BD-3306-013IF *BD-3306-013HS *CT-5P8772
	37V1-UP 38V1-UP	3306 Rear Eng				
627B	14S781-UP 15S1073-UP	3306 Front Eng	3N79763-UP	P.C. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement *Aftercooler & Lines (if required)	BD-3306-002OF *BD-3306-002IF *BD-3306-002HS *CT-5P8772
	37V762-UP 38V1069-UP	3306 Rear Eng				
627B	14S1080-UP 15S1551-UP	3306 Front Eng	8Z7808-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Aftercooler & Lines (if required)	BD-3306-036OF BD-3306-006IF BD-3306-006HS CT-5P8772
	37V1060-UP 38V1531-UP	3306 Rear Eng				

Wheel Tractors & Scrapers						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
627E	6EB1-UP 6GB1-UP	3306 Front Eng	8Z33309-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Aftercooler & Lines (if required)	BD-3306-035OF BD-3306-035IF BD-3306-035HS CT-5P8772
	6FB1-UP 6HB1-UP	3306 Rear Eng	8Z33309-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Aftercooler & Lines (if required)	BD-3306-036OF BD-3306-035IF BD-3306-035HS CT-5P8772
		3406 Rear Eng	70V22151-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-024OF BD-3406-024IF BD-3406-024HS
627E	7CG1-UP	3406 Front Eng	70V33955-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-024OF BD-3406-024IF BD-3406-024HS
	3WJ1-UP	3306 Rear Eng	8Z59000-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Aftercooler & Lines (if required)	BD-3306-036OF BD-3306-035IF BD-3306-035HS CT-5P8772
627F	1DL1-UP	3406C Front Eng	11N7400-UP 41Z504-UP	D.I. Engines Spacer Plated Turbocharged 3406 with 19 Bolt Flywheel Housing	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-024OF BD-3406-024IF BD-3406-024HS
	4YK1-UP	3306 Rear Eng	8Z72000-UP 6NC1-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Aftercooler & Lines (if required)	BD-3306-036OF BD-3306-035IF BD-3306-035HS CT-5P8772

Wheel Tractors & Scrapers						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
631D	24W1-UP	3408 Front Eng	48W950-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement	BD-3408-001OF BD-3408-001IF BD-3408-001HS BD-3408-001SH
631E	1NB1-871	3408 Front Eng	77M1-UP		Out of Frame Overhaul	BD-3408-011OF
631E	1AB1-1639 1NB872-1389	3408 Front Eng	48W19968-UP	D.I. Engines	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3408-011OF BD-3408-011IF BD-3408-011HS
631E	1AB1640-UP 1NB1390-UP	3408E Front Eng	99C1-UP	HEUI® Engines Injector O-Rings are NOT included	Out of Frame Overhaul Cylinder Head Replacement	BD-3408-017OF BD-3408-017HS

633D	25W1-UP	3408 Front Eng	48W950-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement	BD-3408-001OF BD-3408-001IF BD-3408-001HS BD-3408-001SH
633E	2PS1-UP	3408E Front Eng	99C1-UP	HEUI® Engines Injector O-Rings are NOT included	Out of Frame Overhaul Cylinder Head Replacement	BD-3408-017OF BD-3408-017HS

Wheel Tractors & Scrapers						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
637	65M430-UP 79P527-UP	D343 Front Eng		D.I. Engines Spacer Plated Turbocharged		Contact Bulldog
	64M198-381 91N1-563 92N1-232	3306 Rear Eng		P.C. Engines Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Aftercooler & Lines (if required)	BD-3306-012OF BD-3306-012IF BD-3306-012HS CT-5P8772
637B 637D		3408 Front Eng				Contact Bulldog
	26R1-UP 20W1-494 21W1-467 22W1-1067 23W1-1043	3306 Rear Eng	3N1-79762	P.C. Engines Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Aftercooler & Lines (if required)	BD-3306-013OF BD-3306-013IF BD-3306-013HS CT-5P8772
637D		3408 Front Eng				Contact Bulldog
	20W1-494 21W1-467 22W1-1067 23W1-1043	3306 Rear Eng	3N79763-UP	P.C. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement *Aftercooler & Lines (if required)	BD-3306-002OF *BD-3306-002IF *BD-3306-002HS *CT-5P8772
637D	26W1-UP 27W1-UP	3408 Front Eng	48W950-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement	BD-3408-001OF BD-3408-001IF BD-3408-001HS BD-3408-001SH
	20W495-UP 21W468-UP 22W1068-UP 23W1044-UP 4JB1-UP	3306 Rear Eng	8Z7808-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Aftercooler & Lines (if required)	BD-3306-036OF BD-3306-035IF BD-3306-035HS CT-5P8772
637E	1FB1-659 1JB1-UP	3408 Front Eng	48W19968-UP	D.I. Engines	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3408-011OF BD-3408-011IF BD-3408-011HS
	1HB1-UP 1LB1-UP 7CB1-UP	3306 Rear Eng	8Z27183-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Aftercooler & Lines (if required)	BD-3306-036OF BD-3306-035IF BD-3306-035HS CT-5P8772
637E	1FB660-UP	3408E Front Eng	99C1-UP	HEUI® Engines Injector O-Rings are NOT included	Out of Frame Overhaul Cylinder Head Replacement	BD-3408-017OF BD-3408-017HS
	1HB1-UP 1LB1-UP 7CB1-UP	3306 Rear Eng	8Z27183-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Aftercooler & Lines (if required)	BD-3306-036OF BD-3306-035IF BD-3306-035HS CT-5P8772

Wheel Tractors & Scrapers						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
639D	99X1-UP	3408 Front Eng	48W950-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement	BD-3408-001OF BD-3408-001IF BD-3408-001HS BD-3408-001SH
	88X700-UP	3306 Rear Eng	8Z7808-UP			Contact Bulldog
651E	89Z1-UP	3412 Front Eng	73W4208-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3412-007OF BD-3412-007IF BD-3412-007HS
651E	4YR1-UP 5XR1-UP	3412E Front Eng	80M450-UP	HEUI® Engines Injector O-Rings are NOT included	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	BD-3412-013OF BD-3412-013HS BD-3412-013SH
657E	90Z1-UP 91Z1-UP	3412 Front Eng	73W3857-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3412-007OF BD-3412-007IF BD-3412-007HS
	86Z1-UP	3408 Rear Eng	48W19977-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3408-011OF BD-3408-011IF BD-3408-011HS
657E	5YR1-UP 6TR1-UP	3412E Front Eng	80M1-UP	HEUI® Engines Injector O-Rings are NOT included	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	BD-3412-013OF BD-3412-013HS BD-3412-013SH
	6PR1-UP 7KR1-UP	3408E Rear Eng	99C1-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3408-017OF BD-3408-017HS

Mine Trucks						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
768C	2X1-UP	3408	48W1-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3408-007OF BD-3408-007IF BD-3408-007HS
769C	1X1-UP	3408	48W1-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3408-007OF BD-3408-007IF BD-3408-007HS
769D	5SS1-UP 5TR1-UP	3408E	99C1-UP	HEUI® Engines Injector O-Rings are NOT included	Out of Frame Overhaul Cylinder Head Replacement	BD-3408-015OF BD-3408-017HS
771C	3BJ1-UP	3408	48W37000-UP		Out of Frame Overhaul	BD-3408-007OF
771D	6JR1-UP	3408E	99C1-UP	HEUI® Engines Injector O-Rings are NOT included	Out of Frame Overhaul Cylinder Head Replacement	BD-3408-015OF BD-3408-017HS
772B	64W1-UP	3412	73W1-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3412-005OF BD-3412-005IF BD-3412-005HS
773B	63W1-UP	3412	73W1-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3412-005OF BD-3412-005IF BD-3412-005HS
773D	7CS1-UP 7ER1-UP	3412E	80M1-UP	HEUI® Engines Injector O-Rings are NOT included	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog BD-3412-013HS BD-3412-013SH
775B	7XJ1-UP	3412	73W13990-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3412-005OF BD-3412-005IF BD-3412-005HS
775D	6KR1-UP 8AS1-UP	3412E	80M1-UP	HEUI® Engines Injector O-Rings are NOT included	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog BD-3412-013HS BD-3412-013SH

Mine Trucks						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
776B	6JC1-UP	3508	99W1-UP		Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog BD-3508-001SH
776C	2TK1-UP	3508	7YG1-UP		Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog BD-3500-002SH
776D	5ER1-UP	3508B	2GR1-UP	EUI Engines	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog BD-3508-008SH

777B	4YC1-UP	3508	99W1-UP		Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog BD-3508-001SH
777C	4XJ1-UP	3508	7YG1-UP		Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog BD-3500-002SH
777D	3PR1-UP	3508B	2GR1-UP	EUI Engines	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog BD-3508-008SH

784B	5RK1-UP	3512	4WJ1-UP		Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog BD-3500-002SH
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785	8GB1-UP	3512	96Z1-UP		Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog BD-3500-002SH
785B	6HK1-UP	3512	4WJ1-UP		Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog BD-3500-002SH
785C	1HW1-UP	3512B	8BR1-UP			Contact Bulldog

789	9ZC1-UP	3516	54Z1-UP		Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog BD-3500-002SH
789B	7EK1-UP	3516	2PK1-UP		Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog BD-3500-002SH

Mine Trucks						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
793	3SJ1-UP	3516	54Z1-UP			Contact Bulldog
793B	1HL1-UP	3516	2PK1-UP			Contact Bulldog
793C	4AR1-UP 4GZ1-UP	3516B	7TR1-UP	EUI Engines	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog BD-3516-011SH
D20D	9MG1-UP	3116	4TF1-UP			Contact Bulldog
D25C D25D	9YC1-UP 1HK1-UP	3306	13Z1-UP 7JB1-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement *Aftercooler & Lines (if required)	BD-3306-031OF *BD-3306-031IF *BD-3306-031HS *CT-5P8772
D30C D30D	7ZC1-UP 3AJ1-UP	3306	13Z1-UP 7JB1-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement *Aftercooler & Lines (if required)	BD-3306-031OF *BD-3306-031IF *BD-3306-031HS *CT-5P8772
D35C	2GD1-UP	3306	13Z1-UP 7JB1-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement *Aftercooler & Lines (if required)	BD-3306-031OF *BD-3306-031IF *BD-3306-031HS *CT-5P8772
D35HP	3FD1-UP	3406B	6TB8309-UP			Contact Bulldog
D40D	2JJ1-UP	3406	11N1-UP 70V28930-UP			Contact Bulldog

Mine Trucks						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
D250B D250E	5WD1-UP 5TN1-UP	3306	13Z1-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement *Aftercooler & Lines (if required)	BD-3306-031OF *BD-3306-0311F *BD-3306-031HS *CT-5P8772
D250D D250E	6NG1-UP 5TN1-UP	3116	4TF1-UP			Contact Bulldog

D300B D300D	4SD1-UP 5MG1-UP	3306	13Z1-UP 7JB1-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement *Aftercooler & Lines (if required)	BD-3306-031OF *BD-3306-0311F *BD-3306-031HS *CT-5P8772
D300E	7FN1-UP	3306	13Z1-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement *Aftercooler & Lines (if required)	BD-3306-031OF *BD-3306-0311F *BD-3306-031HS *CT-5P8772

D350C D350D	8XC1-UP 9RF1-UP	3306	13Z1-UP 7JB1-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement *Aftercooler & Lines (if required)	BD-3306-031OF *BD-3306-0311F *BD-3306-031HS *CT-5P8772
D350E	9LR1-UP	3406C	41Z1-UP			Contact Bulldog
D350E	2XW1-UP	3406E	9AP1-1799	Spacer Plated Turbocharged		Contact Bulldog

D400D	8TF1-UP	3406	70V28930-UP			Contact Bulldog
D400E	2YR1-UP	3406C	41Z1-UP			Contact Bulldog
D400E	8PS1-UP APF1-UP	3406E	9AP1-1799	Spacer Plated Turbocharged		Contact Bulldog

Compactors & Wheel Dozers						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
814	90P1-202	3306		P.C. Engines	Out of Frame Overhaul	BD-3306-020OF
815	91P1-527			Non Spacer Plated	In Frame Overhaul	BD-3306-020IF
816	57U1-197			Turbocharged	Cylinder Head Replacement	BD-3306-020HS
814	90P203-UP 14R1-UP	3306	3N1-79762 49V1-24220	P.C. Engines Non Spacer Plated	Out of Frame Overhaul In Frame Overhaul	BD-3306-021OF BD-3306-021IF
815	91P528-UP 15R1-UP			Turbocharged	Cylinder Head Replacement	BD-3306-021HS
816	57U198-UP					
814	90P440-UP	3306	3N79763-UP	P.C. Engines	Out of Frame Overhaul	BD-3306-022OF
815	91P1516-UP			Spacer Plated	In Frame Overhaul	BD-3306-022IF
816	57U655-UP			Turbocharged	Cylinder Head Replacement	BD-3306-022HS
814B	16Z1-UP	3306	8Z1-UP	D.I. Engines	Out of Frame Overhaul	BD-3306-023OF
815B	17Z1-UP			Spacer Plated	In Frame Overhaul	BD-3306-023IF
816B	15Z1-UP			Turbocharged	Cylinder Head Replacement	BD-3306-023HS
814F	9DM1-UP	3306	8Z86460-UP			Contact Bulldog
815F	1GN1-UP		6NC1-UP			
816F	5FN1-UP					

824C	85X1-1193	3406	70V5389-UP	Spacer Plated	Out of Frame Overhaul	BD-3406-001OF
825C	86X1-730		11N1-UP	Turbocharged	In Frame Overhaul	BD-3406-001IF
826C	87X1-586			Non Aftercooled	Cylinder Head Replacement	BD-3406-001HS
				With 19 Bolt Flywheel Housing		
824C	85X1194-UP	3406	70V21372-UP	Spacer Plated	Out of Frame Overhaul	BD-3406-022OF
825C	86X731-UP		11N1-UP	Turbocharged	In Frame Overhaul	BD-3406-022IF
826C	87X587-UP			Non Aftercooled	Cylinder Head Replacement	BD-3406-022HS
				With 19 Bolt Flywheel Housing		
824C	85X1194-UP	3406	70V21372-UP	Spacer Plated	Out of Frame Overhaul	BD-3406-027OF
825C	86X731-UP		11N1-UP	Turbocharged	In Frame Overhaul	BD-3406-022IF
826C	87X587-UP			Non Aftercooled	Cylinder Head Replacement	BD-3406-022HS
				With 24 Bolt Flywheel Housing		
824G	4SN1-UP	3406C	41Z212-UP	Spacer Plated	Out of Frame Overhaul	BD-3406-027OF
825G	6RN1-UP			Turbocharged	In Frame Overhaul	BD-3406-027IF
826G	7LN1-UP			Aftercooled	Cylinder Head Replacement	BD-3406-027HS
				With 24 Bolt Flywheel Housing		
824G	AWW1-UP	3406E	BKN1-UP	Spacer Plated		Contact Bulldog
825G	AXB1-UP			Turbocharged		
826G	AYH1-UP					

Compactors & Wheel Dozers						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
834B	7BR1-UP	3408E	99C1-UP	HEUI® Engines Injector O-Rings are NOT included	Out of Frame Overhaul Cylinder Head Replacement	BD-3408-015OF BD-3408-015HS
836	3RL1-UP	3408	48W35200-UP			Contact Bulldog
836	7FR1-UP	3408E	99C1-UP	HEUI® Engines Injector O-Rings are NOT included	Out of Frame Overhaul Cylinder Head Replacement	BD-3408-015OF BD-3408-015HS
844	2KZ1-UP	3412E	80M861-UP	HEUI® Engines Injector O-Rings are NOT included	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	BD-3412-011OF BD-3412-013HS BD-3412-013SH
854G	1JW1-UP	3508B	2GR1-UP	EUI Engines	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog BD-3508-008SH
CB434	3TF218-UP	3114	97Z1-UP			Contact Bulldog

Integrated Toolcarriers						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
IT12	2YC1-UP 4NC1-UP	3204	45V44955-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-004OF BD-3204-004IF BD-3204-004HS
IT12B	1KF1-819	3114	2ZF1-4199			Contact Bulldog
IT12F	1KF820-UP	3114	2ZF4200-UP			Contact Bulldog
IT14B	3NJ1-UP	3114	2ZF1-UP			Contact Bulldog
IT14F	4EL1-UP	3114	2ZF1-UP			Contact Bulldog
IT18	7ZB1-UP 9NB1-UP	3204	45V42186-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-004OF BD-3204-004IF BD-3204-004HS
IT18B	1DF1-UP 2NJ1-UP 4ZD1-UP	3204	45V57072-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-004OF BD-3204-004IF BD-3204-004HS
IT18F	5EJ1-UP 6ZF1-UP	3114	2FG2789-UP 97Z156-UP			Contact Bulldog
IT24F	4NN1-UP 6KN1-UP	3114	97Z1450-UP 2FG4659-UP 4RR1510-UP			Contact Bulldog
IT28	8JB1-UP 2KC1-UP	3204	45V39562-UP	D.I. Engines Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-004OF BD-3204-004IF BD-3204-004HS
IT28B	1HF1-UP 1JK1-UP 5SD1-UP	3204	45V56301-UP 7YJ1-UP	D.I. Engines Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-004OF BD-3204-004IF BD-3204-004HS
IT28F	1JL1-UP 3CL1-UP	3116	4TF8700-UP 98Z820-UP			Contact Bulldog
IT38F	5DR1-UP 6FN1-UP	3116	4TF22700-UP 98Z7720-UP			Contact Bulldog

Wheel Loaders						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
910	80U1-UP 40Y1-UP 41Y1-UP	3204	45V1-UP 45V1-32984 45V1-33060	P.C. & D.I. Engines Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-001OF BD-3204-001IF BD-3204-001HS
910	40Y1-UP 41Y1-UP	3204	45V32985-39866 45V33061-40043	D.I. Engines Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-002OF BD-3204-002IF BD-3204-002HS
910	40Y1-UP 41Y1-UP	3204	45V39867-UP 45V40044-UP	D.I. Engines Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-006OF BD-3204-006IF BD-3204-006HS
G910	3SD1-UP 8GD1-UP	3204	45V53573-UP	D.I. Engines Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-006OF BD-3204-006IF BD-3204-006HS
910E	1SF1-1103	3114	2ZF1-4199			Contact Bulldog
910F	1SF1104-UP	3114	2ZF4200-UP			Contact Bulldog
916	2XB1-UP	3204	45V39562-UP	D.I. Engines Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-004OF BD-3204-004IF BD-3204-004HS
G916	5GD1-UP	3204	45V42589-UP	D.I. Engines Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-004OF BD-3204-004IF BD-3204-004HS
918F	2CK1-UP 3TJ1-UP 5DL1-UP	3114	2FG1600-UP 2ZF568-UP			Contact Bulldog
920	41J1-2576 62K1-4605	3304		P.C. Engines Non Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-001OF BD-3304-001IF BD-3304-001HS
920	41J2577-UP 75J2157-UP 62K4606-10178	3304	48V1-52803 43V1-18853 78P1-47087	P.C. Engines Non Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-003OF BD-3304-003IF BD-3304-003HS
920	41J4371-UP 75J3573-UP 62K10179-UP	3304	48V52804-UP 43V18854-UP 78P47088-UP	P.C. Engines Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-005OF BD-3304-005IF BD-3304-005HS
924F	4YN1-UP 5NN1-UP 6MN1-UP 7PN1-UP	3114	97Z1450-UP 2FG3960-UP 2ZF7483-UP 4RR1-UP			Contact Bulldog

Wheel Loaders						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
926 926E	94Z1-UP 4NB1-UP 8NB1-UP	3204	45V39562-UP 7YJ1-UP	D.I. Engines Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-004OF BD-3204-004IF BD-3204-004HS
G926	1SD1-UP 3TD1-UP	3204	45V39562-UP	D.I. Engines Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-004OF BD-3204-004IF BD-3204-004HS

928F	2XL1-UP 7YM1-UP 8AK1-UP	3116	98Z1-UP 1CK1-UP 4TF8700-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-002OF BD-3116-002HS
928G	7SR1-UP 6XR1-UP	3116	98Z131-UP 4TF25000-UP 6RR450-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-002OF BD-3116-002HS

930	79J1-2223 41K1-3207	3304		P.C. Engines Non Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-001OF BD-3304-001IF BD-3304-001HS
930	79J2224-UP 41K3208-UP 73U352-UP	3304	48V1-52799 78P1-45003 43V1-18890	P.C. Engines Non Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-003OF BD-3304-003IF BD-3304-003HS
930	79J3733-UP 41K7873-UP 73U1313-UP	3304	48V52800-UP 78P45004-UP 43V18891-UP	P.C. Engines Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-005OF BD-3304-005IF BD-3304-005HS

936 936E	33Z1-UP 45Z1-UP 4SB1-UP	3304	7Z7403-UP 12Z1502-UP 9Z6248-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-009OF BD-3304-009IF BD-3304-009HS
936F	4TK1-UP 8AJ1-UP 9MK1-UP	3304	12Z45000-UP 7Z27900-UP 9Z6248-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-009OF BD-3304-009IF BD-3304-009HS
G936	3HD1-UP 4ND1-UP 8ED1-UP	3304	7Z15006-UP 12Z15981-UP 9Z5500-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-009OF BD-3304-009IF BD-3304-009HS

938F	1KM1-UP 2RM1-UP 7SN1-UP	3116	98Z5104-UP 4TF14130-UP			Contact Bulldog
938G	4YS1-UP 6WS1-UP 8RS1-UP 9HS1-UP	3126	55K500-UP 3AK1-UP 6JK1-UP			Contact Bulldog

Wheel Loaders						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
950	81J1-5410	3304		P.C. Engines Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-002OF BD-3304-002IF BD-3304-002HS
950	43J1-13854 73J3957-UP 81J5411-UP	3304	48V1-52797 43V1-18955 78P1-47087	P.C. Engines Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-004OF BD-3304-004IF BD-3304-004HS
950	43J13855-UP 73J7258-UP 81J11632-UP	3304	48V52798-UP 43V18956-UP 78P47088-UP	P.C. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-007OF BD-3304-007IF BD-3304-007HS
950B	31R1-UP 63R1-6053 65R1-3087 22Z1-3188	3304	7Z1-UP 9Z1-UP 12Z1-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-008OF BD-3304-008IF BD-3304-008HS
950E	63R6054-UP 65R3088-UP 22Z3189-UP	3304	7Z1-UP 9Z1-UP 12Z1-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-008OF BD-3304-008IF BD-3304-008HS
950F	2LM1-UP 4DJ1-UP 5SK1-UP 6YG1-UP 7ZF1-UP 8TK1-UP	3116	98Z1-UP 1CK1-UP 4TF1-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-002OF BD-3116-002HS
950G	3JW1-UP 4BS1-UP 5FW1-UP	3126	55K1620-UP 55K1-UP 6JK155-UP			Contact Bulldog
960F	1YM1-UP 4CL1-UP 6XL1-UP 9ZJ1-UP	3116	98Z1-UP 1CK1-UP 4TF1-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-002OF BD-3116-002HS
962G	4PW1-UP 5AS1-UP 6EW1-UP 6HW1-UP 7BW1-UP	3126	55K1620-UP 55K1-UP 55K2081-3590 3AK117-UP 6JK171-UP			Contact Bulldog

Wheel Loaders						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
966C	30K1-1624 42J1-3565	3306		P.C. Engines Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-020OF BD-3306-020IF BD-3306-020HS
966C	78G1001-UP 42J3566-UP 76J6389-UP 30K1625-UP	3306	44V1-22484 49V1-UP 3N1-79762	P.C. Engines Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-021OF BD-3306-021IF BD-3306-021HS
966C	78G2871-UP 76J12667-UP 30K2972-UP	3306	44V22485-UP 3N79763-UP	P.C. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-022OF BD-3306-022IF BD-3306-022HS
966C	18B596-UP 9KC1-UP	3306	8TD1-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-023OF BD-3306-023IF BD-3306-023HS
966D	35S1-2522 94X1-6488 99Y1-5314	3306	10Z1-UP 13Z1-UP 8Z1731-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-023OF BD-3306-023IF BD-3306-023HS
966E	35S2523-UP 94X6489-UP 99Y5315-UP	3306	10Z1-UP 13Z14225-UP 8Z41502-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-023OF BD-3306-023IF BD-3306-023HS
966F	1SL1-UP 3XJ1-UP 4YG1-UP 8BG1-UP 9YJ1-UP	3306	8Z57583-UP 10Z1-UP 13Z22389-UP 6NC1-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-023OF BD-3306-023IF BD-3306-023HS
970F	7PL1-UP 7SK1-UP 9JK1-UP	3306	8Z70280-UP 10Z1-UP 13Z28100-UP 6NC1-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-023OF Contact Bulldog Contact Bulldog

Wheel Loaders						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
980B	89P1-2167	3306		P.C. Engines Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-012OF BD-3306-012IF BD-3306-012HS
980B	89P2168-UP	3306	3N1-UP	P.C. Engines Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-016OF BD-3306-016IF BD-3306-016HS
				For Engines Converted to Spacer Plated	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-017OF BD-3306-017IF BD-3306-017HS
980C	13B300-UP 63X1-UP 2XD1-UP	3406	81Y1-UP 11N1-1475 70V4683-UP	Spacer Plated Turbocharged Non Aftercooled With 19 Bolt Flywheel Housing	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-001OF BD-3406-001IF BD-3406-001HS
980C	63X6575-UP	3406	11N1476-UP	Spacer Plated Turbocharged Non Aftercooled With 24 Bolt Flywheel Housing	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-027OF BD-3406-027IF BD-3406-027HS
980F	3HK1-UP 5XJ1-UP 8CJ1-UP 8JN1-UP	3406	11N1-UP	Spacer Plated Turbocharged Non Aftercooled With 19 Bolt Flywheel Housing	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-022OF BD-3406-022IF BD-3406-022HS
980F	3HK1-UP 4RN1-UP 8CJ1-UP 8JN1-UP	3406	11N1-UP	Spacer Plated Turbocharged Non Aftercooled With 24 Bolt Flywheel Housing	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-027OF BD-3406-027IF BD-3406-027HS
980G	2KR1-UP 2SR1-UP 9CM1-UP	3406C	41Z1-UP	Spacer Plated Turbocharged Aftercooled With 24 Bolt Flywheel Housing	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-027OF BD-3406-027IF BD-3406-027HS
980G	AWH1-UP AXG1-UP	3406E	BET1-UP	Spacer Plated Turbocharged		Contact Bulldog

Wheel Loaders						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
988B	50W1-UP	3408	48W950-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3408-006OF Contact Bulldog BD-3408-006HS
988F	8YG1-UP	3408	48W35039-UP	D.I. Engines Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3408-013OF BD-3408-013IF BD-3408-013HS
988F	2ZR1-UP	3408E	99C1-UP	HEUI® Engines Injector O-Rings are NOT included	Out of Frame Overhaul Cylinder Head Replacement	BD-3408-016OF BD-3408-016HS

990	7HK1-UP	3412	73W14650-UP			Contact Bulldog
990	4FR1-UP	3412E	80M1-UP	HEUI® Engines Injector O-Rings are NOT included	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	BD-3412-011OF BD-3412-013HS BD-3412-013SH

992C	42X1-UP 49Z1-UP	3412	73W1-UP		Out of Frame Overhaul	BD-3412-004OF
992D	7MJ1-UP		73W13888-UP			
992G	7HR1-UP	3508B	2GR1-UP	EUI Engines	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog BD-3508-008SH

994	9YF1-UP	3516	54Z1-UP		Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog BD-3500-002SH
994D	3TZ1-UP	3516B	7TR360-UP			Contact Bulldog

Crawler Loaders						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
931	8N1-UP 10N1-UP 78U1-UP 81U1-UP	3204	45V1-UP	P.C. & D.I. Engines Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-001OF BD-3204-001IF BD-3204-001HS
931B	25Y1-UP 26Y1-UP 29Y1-UP 30Y1-UP	3204	45V1-32893 45V1-32939	P.C. & D.I. Engines Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-001OF BD-3204-001IF BD-3204-001HS
931B	25Y1-UP 26Y1-UP 29Y1-UP 30Y1-UP	3204	45V32894-40125 45V32940-40209	D.I. Engines Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-002OF BD-3204-002IF BD-3204-002HS
931B	25Y1-UP 26Y1-UP 29Y1-UP 30Y1-UP	3204	45V40126-UP 45V40210-UP	D.I. Engines Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-006OF BD-3204-006IF BD-3204-006HS
931B	4SC1-UP 6EC1-UP	3204	45V48070-UP	D.I. Engines Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-006OF BD-3204-006IF BD-3204-006HS
931C	2AK1-UP 2BJ1-UP 5LG1-UP 6AJ1-UP 6RF1-UP 7HF1-UP 8AF1-UP 9AJ1-UP	3204	45V69306-UP	D.I. Engines Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-006OF BD-3204-006IF BD-3204-006HS

935B	3DF1-UP	3204	45V60736-UP		Out of Frame Overhaul	BD-3204-004OF
935C	5DJ1-UP 8CF1-UP	3204	45V69350-UP		Out of Frame Overhaul	BD-3204-004OF

941 941B	70H1-2941 80H1-3883	3304		P.C. Engines Non Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-011OF BD-3304-001IF BD-3304-001HS
941 941B	70H2942-UP 16U226-UP 80H3884-UP	3304	48V1-UP 43V1-UP 78P1-47087	P.C. Engines Non Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-003OF BD-3304-003IF BD-3304-003HS
941B	80H6455-UP	3304	78P47088-UP	P.C. Engines Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-005OF BD-3304-005IF BD-3304-005HS

Crawler Loaders						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
943	3Y1-UP 31Y1-UP 4Z1-UP 19Z1-UP	3204	10X1-UP 45V38842-UP	D.I. Engines	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-003OF BD-3204-003IF BD-3204-003HS
951B 951C	86J1-2597	3304		P.C. Engines Non Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-011OF BD-3304-001IF BD-3304-001HS
951C	32F1197-UP 19H1969-UP 69H2520-UP 86J2598-UP	3304	43V50-18811 43V26-18816 48V1-UP 78P1-46320	P.C. Engines Non Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-003OF BD-3304-003IF BD-3304-003HS
951C	32F1555-UP 19H2474-UP 69H3509-UP 86J4719-UP	3304	43V18812-UP 43V18817-UP 48V38780-UP 78P46321-UP	P.C. Engines Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-005OF BD-3304-005IF BD-3304-005HS
953	5Z1-UP 20Z1-UP 44Z1-UP 76Y1-UP 77Y-UP 78Y1-UP	3204	10X1-UP 45V29936-UP	D.I. Engines	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-003OF BD-3204-003IF BD-3204-003HS
953B	5MK611-UP	3116	4TF3496-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-003OF BD-3116-002HS
953C	2ZN1-UP	3116	4TF19620-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-003OF BD-3116-002HS
955K	85J1-6246	3304		P.C. Engines Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-002OF BD-3304-002IF BD-3304-002HS
955K 955L	64J5183-UP 71J4558-UP 85J6247-UP 57M1-UP 13X1-UP 8Y1-UP	3304	48V1-UP 43V155-UP 78P1-40899 43V12994-18825 78P1-47087 48V10946-52798	P.C. Engines Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-004OF BD-3304-004IF BD-3304-004HS
955L	57M1-UP 13X1-UP 8Y2723-UP	3304	78P47088-UP 43V18826-UP 48V52799-UP	P.C. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-007OF BD-3304-007IF BD-3304-007HS

Crawler Loaders						
Machine Model	Machine S/N	Engine Model	Engine S/N	Comments	Kit Description	Kit Number
963	29S1-UP 6Z1-UP 11Z1-UP 18Z1-UP 21Z1-UP 48Z1-UP	3304	7Z1-UP 9Z1-UP 12Z1-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-008OF BD-3304-008IF BD-3304-008HS
963B	9BL1-UP	3116	4TF1-UP			Contact Bulldog
973	66G1-UP 86G1-UP 90L1-UP 91L1-UP 26Z1-UP 32Z1-UP	3306	8Z1-UP 10Z1-UP 13Z1-UP	D.I. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-025OF BD-3306-025IF BD-3306-025HS
977K 977L	48J1-1058 11K1-5050	3306		P.C. Engines Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-020OF BD-3306-020IF BD-3306-020HS
977L	48J1059-UP 11K5051-UP 14X1-UP 64X1-UP	3306	3N1-79762 49V1-24220	P.C. Engines Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-021OF BD-3306-021IF BD-3306-021HS
977L	14X1-UP 64X1-UP	3306	3N79763-UP 49V24221-UP	P.C. Engines Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-022OF BD-3306-022IF BD-3306-022HS
983B	58X1-UP	3406	70V1-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-017OF Contact Bulldog Contact Bulldog

Stationary & Marine Engines					
Engine Model	Application	Engine S/N	Comments	Kit Description	Kit Number
3114	Industrial Generator Set	1ZG1-UP 5EF1-UP 5JG1-UP 6AF1-UP			Contact Bulldog
3116	Industrial Generator Set	2MR1-UP 2WG1-UP 4PG1-UP 1NJ1-UP 2SG1-UP		Out of Frame Overhaul Cylinder Head Replacement	BD-3116-003OF BD-3116-002HS
3116	Marine	1SK1-UP 4KG107-UP			Contact Bulldog
3126	Industrial	3TR1-241			Contact Bulldog
3126	Industrial	9ZR1-UP	2 Valves per Cylinder	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3126-007OF Contact Bulldog Contact Bulldog
3126B	Industrial	BEJ1-UP			Contact Bulldog
3126	Marine	8NM1-UP			Contact Bulldog
3145 3150 3160	Industrial Generator Set	96M1-UP 65P1-UP 97M1-UP 66P1-UP 98M1-UP 67P1-UP	Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog BD-3208-001IF BD-3208-001HS BD-3208-001SH

Stationary & Marine Engines					
Engine Model	Application	Engine S/N	Comments	Kit Description	Kit Number
3204	Industrial	2TB1-UP 7EB1-UP	Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3204-007OF BD-3204-007IF BD-3204-007HS
3208NA	Industrial Generator Set	90N1-UP 29A225-UP	Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement	BD-3208-001OF BD-3208-001IF BD-3208-001HS BD-3208-001SH
3208T	Industrial Generator Set	3Z1-UP 30A210-UP	Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement	BD-3208-002OF BD-3208-002IF BD-3208-002HS BD-3208-002SH
3208NA	Marine	75V1-UP	Non Turbocharged	Out of Frame Overhaul Cylinder Head Replacement	BD-3208-003OF BD-3208-003HS
3208T	Marine	1Z1-26605 75V1-UP	Turbocharged NOT used with 1045617 Exhaust Manifold	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	BD-3208-004OF BD-3208-004HS BD-3208-004SH
3208T	Marine	1Z26602-UP	Turbocharged With 1045617 Exhaust Manifold	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement Aftercooler & Lines (if required)	BD-3208-006OF BD-3208-006HS BD-3208-006SH CT-9X8569

Stationary & Marine Engines					
Engine Model	Application	Engine S/N	Comments	Kit Description	Kit Number
3304	Industrial	2B4364-11013 4B455-17153	Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Expansion Tank (if required)	BD-3304-015OF BD-3304-015IF BD-3304-015HS CT-6V0621
3304	Industrial	2B11014-UP 4B17154-UP	Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Expansion Tank (if required)	BD-3304-012OF BD-3304-012IF BD-3304-012HS CT-6V0621
3304 3304B	Industrial Generator Set	10E300-UP 83Z1-UP 3TC1-UP 6YB1-UP	Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Expansion Tank (if required)	BD-3304-014OF BD-3304-014IF BD-3304-014HS CT-6V0621
3304	Marine	5B1387-2099	Non Spacer Plated Turbocharged	In Frame Overhaul Cylinder Head Replacement Expansion Tank (if required)	BD-3304-015IF BD-3304-015HS CT-6V0621
3304B	Marine	1PS1-UP	Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Expansion Tank (if required)	BD-3304-014OF BD-3304-014IF BD-3304-014HS CT-6V0621
G3304	Natural Gas	37Y1-UP	Non Turbocharged *Order additional CT-8S1606 Valve Cover Gasket if engine is equipped with long valve train	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3304-013OF BD-3304-013IF BD-3304-013HS
G3304	Natural Gas	1RG1-UP			Contact Bulldog

Stationary & Marine Engines					
Engine Model	Application	Engine S/N	Comments	Kit Description	Kit Number
3306 D333C	Industrial	66D1-UP	P.C. Engines Non Spacer Plated Turbocharged or Non Turbocharged	Out of Frame Overhaul Aftercooler & Lines (if required) Expansion Tank (if required)	BD-3306-034OF Multiple Options CT-6V0621
3306	Industrial	66D1-UP	P.C. Engines Spacer Plated Turbocharged or Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement *Aftercooler & Lines (if required) *Expansion Tank (if required)	BD-3306-032OF *BD-3306-032IF *BD-3306-032HS *Multiple Options *CT-6V0621
3306 3306B	Industrial Generator Set	64Z1-UP 85Z1-UP 1CZ1-UP 5JC1-UP 7JB1-UP 8JJ1-UP	Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement *Aftercooler & Lines (if required) *Expansion Tank (if required)	BD-3306-033OF *BD-3306-033IF *BD-3306-033HS *Multiple Options *CT-6V0621
3306	Marine	67D1103-2863	Non Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-026OF BD-3306-026IF BD-3306-026HS
3306	Marine	67D2864-UP	Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-027OF BD-3306-027IF BD-3306-027HS
3306B	Marine	84Z1-UP	Spacer Plated Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-028OF BD-3306-028IF BD-3306-028HS
G3306	Natural Gas	7Y291-UP	Spacer Plated Turbocharged *Order additional CT-8S1605 Valve Cover Gasket if engine is equipped with long valve train	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Aftercooler & Lines (if required) Expansion Tank (if required)	BD-3306-029OF BD-3306-029IF BD-3306-029HS CT-6V1279 CT-6V0621
G3306	Natural Gas	7Y291-UP	Spacer Plated Non Turbocharged *Order additional CT-8S1605 Valve Cover Gasket if engine is equipped with long valve train	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Expansion Tank (if required)	Contact Bulldog Contact Bulldog BD-3306-030HS CT-6V0621
G3306	Natural Gas	3CF1-UP			Contact Bulldog

Stationary & Marine Engines					
Engine Model	Application	Engine S/N	Comments	Kit Description	Kit Number
3406A	Industrial Generator Set	90U2159-UP 75Z1-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement *Aftercooler & Lines (if required)	BD-3406-012OF *BD-3406-012IF *BD-3406-012HS *CT-1909861
3406B	Industrial Generator Set	6TB1-9856 2WB1-UP	With 19 Bolt Flywheel Housing	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-002OF BD-3406-002IF BD-3406-002HS
3406B	Industrial Generator Set	6TB1-9856 2WB1-UP	With 24 Bolt Flywheel Housing		Contact Bulldog
3406C	Industrial	6TB9857-UP	With 19 Bolt Flywheel Housing	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-002OF BD-3406-002IF BD-3406-002HS
3406C	Industrial	6TB9857-UP	With 24 Bolt Flywheel Housing		Contact Bulldog
3406C	Generator Set	1DZ1-UP 4ZR1-UP 8FS1-UP	With 19 Bolt Flywheel Housing	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-010OF BD-3406-002IF BD-3406-002HS
3406C	Industrial	3ER1-UP	With 24 Bolt Flywheel Housing	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-015OF BD-3406-008IF BD-3406-008HS
3406E	Generator Set	1MZ1-UP 8AZ1-UP			Contact Bulldog
3406E	Generator Set	9NN1-UP			Contact Bulldog
3406E	Industrial	6BR1-UP			Contact Bulldog

Stationary & Marine Engines					
Engine Model	Application	Engine S/N	Comments	Kit Description	Kit Number
3406A	Marine	91U1-484		Out of Frame Overhaul	BD-3406-014OF
3406A	Marine	91U721-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-013OF BD-3406-013IF BD-3406-013HS
3406B	Marine	4TB1-3481		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-008OF BD-3406-008IF BD-3406-008HS
3406C	Marine	4TB3482-UP	With 19 Bolt Flywheel Housing	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-008OF BD-3406-008IF BD-3406-008HS
3406C	Marine	1SS1-UP	With 24 Bolt Flywheel Housing	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-015OF BD-3406-008IF BD-3406-008HS
3406E	Marine	9WR1-UP			Contact Bulldog
G3406	Natural Gas	1RK1-UP 4FD1-UP	Spacer Plated Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-021OF BD-3406-021IF BD-3406-021HS
G3406	Natural Gas	1RK1-UP 4FD1-UP	Spacer Plated Turbocharged	Out of Frame Overhaul Cylinder Head Replacement	BD-3406-025OF Contact Bulldog
G3406	Natural Gas (Lean Burn)	1RK1-UP	Aftercooled Turbocharged	Out of Frame Overhaul	BD-3406-025OF

Stationary & Marine Engines					
Engine Model	Application	Engine S/N	Comments	Kit Description	Kit Number
3408 3408B	Industrial	67U1335-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3408-005OF BD-3408-005IF BD-3408-005HS
3408 3408B 3408C	Generator Set	78Z1-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement *Aftercooler & Lines (if required) *Expansion Tank (if required)	BD-3408-005OF *BD-3408-005IF *BD-3408-005HS *CT-1247567 *CT-6V0237
3408	Marine	99U1-584		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	Contact Bulldog Contact Bulldog BD-3408-003HS
3408	Marine	99U585-4588		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement	BD-3408-004OF BD-3408-004IF BD-3408-004HS Contact Bulldog
3408B 3408C	Marine	99U4589-UP 1TS1-UP	With 19 Bolt Flywheel Housing	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement	BD-3408-004OF BD-3408-004IF BD-3408-004HS Contact Bulldog
G3408	Natural Gas	6NB1-UP	Aftercooled Turbocharged	Out of Frame Overhaul Cylinder Head Replacement	Contact Bulldog BD-3408-014HS
G3408 G3408B G3408C	Natural Gas (Lean Burn)	6FW1-UP 8YR1-UP 6RJ1-UP 3WR1-UP	Aftercooled Turbocharged	Out of Frame Overhaul Cylinder Head Replacement	Contact Bulldog BD-3408-014HS

Stationary & Marine Engines					
Engine Model	Application	Engine S/N	Comments	Kit Description	Kit Number
3412	Industrial Generator Set	38S1-16483 81Z1-14500		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement	BD-3412-001OF BD-3412-001IF BD-3412-001HS BD-3412-002SH
3412C	Industrial Generator Set	38S16484-UP 81Z14501-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement	BD-3412-001OF BD-3412-001IF BD-3412-001HS BD-3412-002SH
3412C	Generator Set	1EZ1-UP 2WJ1-UP	With 4 sequential Turbos	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement Supplemental Turbo Kit	BD-3412-001OF BD-3412-001IF BD-3412-001HS BD-3412-002SH BD-3412-001TC
3412E	Industrial	4CR1-UP			Contact Bulldog
3412B 3412C	Marine	60M1-UP 9BR1-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement	BD-3412-002OF BD-3412-002IF BD-3412-002HS BD-3412-002SH
3412E	Marine	9KS1-UP			Contact Bulldog
3412E	Marine	9PW1-UP			Contact Bulldog
G3412	Natural Gas	7DB1-UP	Non Aftercooled Non Turbocharged	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog BD-3412-008HS Contact Bulldog
G3412	Natural Gas	7DB1-UP	Aftercooled Turbocharged	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog BD-3412-010HS Contact Bulldog
G3412 G3412C	Natural Gas	5KR1-UP 6ZM1-UP 9RR1-UP			Contact Bulldog
G3412	Natural Gas (Lean Burn)	3NK1-UP			Contact Bulldog

Stationary & Marine Engines					
Engine Model	Application	Engine S/N	Comments	Kit Description	Kit Number
3508	Industrial	95Y1-UP 68Z1-UP	With Dry Exhaust Manifolds	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog BD-3500-003SH
			With Wet Exhaust Manifolds	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	BD-3508-006OF BD-3508-006HS BD-3500-004SH
3508	Generator Set	23Z1-UP 70Z1-UP	With Dry Exhaust Manifolds	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog BD-3500-003SH
			With Wet Exhaust Manifolds	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	BD-3508-006OF BD-3508-006HS BD-3500-004SH
3508B	Generator Set	2HW1-UP 4GM1-UP 6PN1-UP	With Dry Exhaust Manifolds (New EUI) Note: New EUI sets contain a molded rubber rocker box seal and can't be interchanged with older EUI & MUI flat rocker box gaskets	Cylinder Head Replacement Single Head Replacement	Contact Bulldog BD-3500-005SH

Stationary & Marine Engines					
Engine Model	Application	Engine S/N	Comments	Kit Description	Kit Number
3508	Marine	96Y1-UP 69Z1-UP	With Wet Exhaust Manifolds	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	BD-3508-006OF BD-3508-006HS BD-3500-004SH
3508 3508B	Marine	3PS1-UP 1TW1-UP 3DM1-UP 3DW1-UP 7SM1-UP	With Dry Exhaust Manifolds (Old EUI) (New EUI) Note: New EUI sets contain a molded rubber rocker box seal and can't be interchanged with older EUI & MUI flat rocker box gaskets	Single Head Replacement Single Head Replacement	BD-3500-007SH BD-3500-008SH
3508	Locomotive	6TJ1-UP			Contact Bulldog
G3508	Natural Gas	2JF1-UP	With Magneto Ignition System & Wet Exhaust Manifolds With Dry Exhaust Manifolds	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement Single Head Replacement	BD-3508-003OF BD-3508-003HS BD-3500-001SH BD-3500-006SH
G3508	Natural Gas	4WD1-UP 9TG1-UP	With Electronic Ignition System & Wet Exhaust Manifolds With Dry Exhaust Manifolds	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement Single Head Replacement	BD-3508-004OF BD-3508-004HS BD-3500-001SH BD-3500-006SH

Stationary & Marine Engines					
Engine Model	Application	Engine S/N	Comments	Kit Description	Kit Number
3512	Industrial	49Y1-UP 51Y1-UP 65Z1-UP	With Dry Exhaust Manifolds	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	BD-3512-003OF BD-3512-003HS BD-3500-003SH
		49Y1-UP 65Z1-UP	With Wet Exhaust Manifolds	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog Contact Bulldog BD-3500-004SH
3512	Generator Set	24Z1-UP 67Z1-UP	With Dry Exhaust Manifolds	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	BD-3512-003OF BD-3512-003HS BD-3500-003SH
			With Wet Exhaust Manifolds	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog Contact Bulldog BD-3500-004SH
3512B	Generator Set	8RM1-UP	With Dry Exhaust Manifolds (New EUI) Note: New EUI sets contain a molded rubber rocker box seal and can't be interchanged with older EUI & MUI flat rocker box gaskets	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog BD-3500-008SH
3512B	Generator Set	4AW1-UP 6GW1-UP 6WN1-UP	With Dry Exhaust Manifolds (New EUI) Note: New EUI sets contain a molded rubber rocker box seal and can't be interchanged with older EUI & MUI flat rocker box gaskets	Cylinder Head Replacement Single Head Replacement	Contact Bulldog BD-3500-005SH

Stationary & Marine Engines					
Engine Model	Application	Engine S/N	Comments	Kit Description	Kit Number
3512	Marine	50Y1-UP 66Z1-UP	With Wet Exhaust Manifolds	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog Contact Bulldog BD-3500-004SH
3512 3512B	Marine	3RS1-UP 3WS1-UP 4TN1-UP	With Dry Exhaust Manifolds (Old EUI) (New EUI) Note: New EUI sets contain a molded rubber rocker box seal and can't be interchanged with older EUI & MUI flat rocker box gaskets	Single Head Replacement Single Head Replacement	BD-3500-007SH BD-3500-008SH
3512B	Marine	1PW1-UP 7HM1-UP 8EM1-UP	With Dry Exhaust Manifolds (New EUI) Note: New EUI sets contain a molded rubber rocker box seal and can't be interchanged with older EUI & MUI flat rocker box gaskets	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog BD-3500-008SH
3512	Locomotive	2WK1-UP			Contact Bulldog
G3512	Natural Gas	4KC1-UP	With Magneto Ignition System & Wet Exhaust Manifolds With Dry Exhaust Manifolds	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog Contact Bulldog BD-3500-001SH BD-3500-006SH
G3512	Natural Gas	5JD1-UP 7NJ1-UP	With Electronic Ignition System & Wet Exhaust Manifolds With Dry Exhaust Manifolds	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog Contact Bulldog BD-3500-001SH BD-3500-006SH
G3512	Natural Gas	5JD1-UP 7NJ1-UP	With Electronic Ignition System & Dry Exhaust Manifolds (Late EIS)	Cylinder Head Replacement Single Head Replacement	Contact Bulldog BD-3500-006SH

Stationary & Marine Engines					
Engine Model	Application	Engine S/N	Comments	Kit Description	Kit Number
3516	Industrial	27Z1-UP 71Z1-UP	With Dry Exhaust Manifolds	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	BD-3516-003OF BD-3516-003HS BD-3500-003SH
			With Wet Exhaust Manifolds	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog BD-3500-004SH
3516	Generator Set	25Z1-UP 73Z1-UP 5SJ1-UP	With Dry Exhaust Manifolds	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	BD-3516-003OF BD-3516-003HS BD-3500-003SH
		25Z1-UP 73Z1-UP	With Wet Exhaust Manifolds	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog BD-3500-004SH
3516	Generator Set	5SJ1-UP	High Speed Phase II Engine	Out of Frame Overhaul	BD-3516-003OF
3516B	Generator Set	1NW1-UP 6HN1-UP 7RN1-UP 8NW1-UP	With Dry Exhaust Manifolds (New EUI) Note: New EUI sets contain a molded rubber rocker box seal and can't be interchanged with older EUI & MUI flat rocker box gaskets	Cylinder Head Replacement Single Head Replacement	Contact Bulldog BD-3500-005SH

Stationary & Marine Engines					
Engine Model	Application	Engine S/N	Comments	Kit Description	Kit Number
3516	Marine	29Z1-UP 72Z1-UP	With Wet Exhaust Manifolds	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog BD-3500-004SH
3516	Marine	4MJ150-UP	With Dry Exhaust Manifolds (MUI)	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog BD-3516-009SH
3516 3516B	Marine	3SS1-UP 2FW1-UP 3SX1-UP 8CN1-UP 8KN1-UP 9AN1-UP	With Dry Exhaust Manifolds (Old EUI) (New EUI) Note: New EUI sets contain a molded rubber rocker box seal and can't be interchanged with older EUI & MUI flat rocker box gaskets	Cylinder Head Replacement Single Head Replacement Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog BD-3500-007SH Contact Bulldog Contact Bulldog BD-3500-008SH
3516	Locomotive	9KF1-UP			Contact Bulldog
G3516	Natural Gas	3RC1-UP	With Magneto Ignition System & Wet Exhaust Manifolds With Dry Exhaust Manifolds	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog Contact Bulldog BD-3500-001SH BD-3500-006SH
G3516	Natural Gas	4EK1-UP 8LD1-UP	With Electronic Ignition System & Wet Exhaust Manifolds With Dry Exhaust Manifolds	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog Contact Bulldog BD-3500-001SH BD-3500-006SH
G3516	Natural Gas	4EK1-UP 8LD1-UP	With Electronic Ignition System & Dry Exhaust Manifolds	Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog BD-3500-006SH

Stationary & Marine Engines					
Engine Model	Application	Engine S/N	Comments	Kit Description	Kit Number
D342	Industrial	31B1-UP	Non Spacer Plated *Rear Crankshaft Seal not included	Out of Frame Overhaul* In Frame Overhaul Cylinder Head Replacement	BD-342-005OF Contact Bulldog BD-342-005HS
D342	Marine	32B1-2268	Non Spacer Plated *Rear Crankshaft Seal not included	Out of Frame Overhaul* In Frame Overhaul Cylinder Head Replacement	BD-342-006OF Contact Bulldog BD-342-006HS
G342C	Natural Gas	71B1-UP	Non Spacer Plated	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-342-007OF Contact Bulldog BD-342-007HS
G342C	Natural Gas	71B1-UP	Spacer Plated	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-342-008OF Contact Bulldog BD-342-008HS

D353C	Industrial	46B1-869	Non Spacer Plated	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	Contact Bulldog Contact Bulldog BD-353-002HS
D353C D353E	Industrial	46B870-6446 77B1-UP	Non Spacer Plated	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	Contact Bulldog Contact Bulldog BD-353-003HS
D353C	Industrial	46B6447-UP 46B870-6446*	Spacer Plated *Converted Engines	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	Contact Bulldog Contact Bulldog BD-353-005HS
D353C	Marine	47B1-469	Non Spacer Plated	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	Contact Bulldog Contact Bulldog BD-353-002HS
D353C	Marine	47B470-4207	Non Spacer Plated	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog BD-353-004HS BD-353-004SH
D353C	Marine	47B470-UP*	Spacer Plated *Converted Engines	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	Contact Bulldog Contact Bulldog BD-353-005HS

Stationary & Marine Engines					
Engine Model	Application	Engine S/N	Comments	Kit Description	Kit Number
D379B	Industrial	68B2540-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement Single Head Replacement (Water Shielded Manifold) Single Head Replacement (Water Cooled Manifold)	BD-379-001OF Contact Bulldog Contact Bulldog BD-399-001SH Contact Bulldog BD-399-004SH
D379B	Marine	69B1227-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement (Water Shielded Manifold) Single Head Replacement (Water Cooled Manifold)	BD-379-004OF Contact Bulldog Contact Bulldog Contact Bulldog BD-399-004SH
G379	Natural Gas	72B468-UP	Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog Contact Bulldog BD-399-003SH
G379	Natural Gas	72B468-UP	Aftercooled Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog Contact Bulldog BD-399-003SH

Stationary & Marine Engines					
Engine Model	Application	Engine S/N	Comments	Kit Description	Kit Number
D398 D398B	Industrial	66B1-3560 75B1-UP		Out of Frame Overhaul Cylinder Head Replacement Single Head Replacement Single Head Replacement (Water Shielded Manifold) Single Head Replacement (Water Cooled Manifold)	BD-398-001OF Contact Bulldog BD-399-001SH Contact Bulldog BD-399-004SH
D398B	Industrial	66B3561-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement Single Head Replacement (Water Shielded Manifold) Single Head Replacement (Water Cooled Manifold)	BD-398-003OF Contact Bulldog Contact Bulldog BD-399-001SH Contact Bulldog BD-399-004SH
D398B	Marine	67B1391-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement Single Head Replacement (Water Shielded Manifold) Single Head Replacement (Water Cooled Manifold)	Contact Bulldog Contact Bulldog Contact Bulldog BD-399-001SH Contact Bulldog BD-399-004SH
D398B	Generator Set	35Z1-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement Single Head Replacement (Water Shielded Manifold) Single Head Replacement (Water Cooled Manifold)	BD-398-002OF Contact Bulldog Contact Bulldog BD-399-001SH Contact Bulldog BD-399-004SH
G398	Natural Gas	73B906-UP	Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog Contact Bulldog BD-399-003SH
G398	Natural Gas	73B906-UP	Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog Contact Bulldog BD-399-003SH

Stationary & Marine Engines					
Engine Model	Application	Engine S/N	Comments	Kit Description	Kit Number
D399	Industrial Generator Set	35B688-UP 36Z1-1920		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement Single Head Replacement (Water Shielded Manifold) Single Head Replacement (Water Cooled Manifold)	BD-399-002OF Contact Bulldog Contact Bulldog BD-399-001SH Contact Bulldog BD-399-004SH
D399	Marine	91B253-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement Single Head Replacement (Water Shielded Manifold) Single Head Replacement (Water Cooled Manifold)	Contact Bulldog Contact Bulldog Contact Bulldog BD-399-001SH Contact Bulldog BD-399-004SH
G399	Natural Gas	49C261-UP	Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog Contact Bulldog BD-399-003SH
G399	Natural Gas	49C261-UP	Aftercooled Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement	Contact Bulldog Contact Bulldog Contact Bulldog BD-399-003SH

Stationary & Marine Engines			
Engine Model	Application	Kit Description	Kit Number
D379 D398 D399	Miscellaneous	Aftercooler Installation Set (To install unit only) Lube Oil Pump Installation Set (To install unit only) Fresh Water Pump Gasket & Seal Set (Includes installation gaskets) Fresh Water Pump Installation Set (To install unit only) Raw Water Pump Installation Set (To install unit only) Note: Crankshaft seals not included in AIO kits Front seal - Standard Rotation - Counter Clockwise* Rear seal - Standard Rotation - Counter Clockwise* Front seal - Opposite Rotation - Clockwise* Rear seal - Opposite Rotation - Clockwise* *Viewing Engine Facing Flywheel	BD-399-090AC BD-399-090OP BD-399-090WP BD-399-092WP BD-399-091WP CT-4W2606 CT-4W2607 CT-4W2607 CT-4W2606
G379 G398 G399	Natural Gas	Aftercooler Installation Set (To install unit only) Lube Oil Pump Installation Set (To install unit only) Fresh Water Pump Gasket & Seal Set (Includes installation gaskets) Fresh Water Pump Installation Set (To install unit only) Raw Water Pump Installation Set (To install unit only) Note: Crankshaft seals not included in AIO kits Front seal - Standard Rotation - Counter Clockwise* Rear seal - Standard Rotation - Counter Clockwise* Front seal - Opposite Rotation - Clockwise* Rear seal - Opposite Rotation - Clockwise* *Viewing Engine Facing Flywheel	BD-399-090AC BD-399-090OP BD-399-090WP BD-399-092WP BD-399-091WP CT-4W2606 CT-4W2607 CT-4W2607 CT-4W2606

Over-the-Road Truck Engines				
Engine Model	Engine S/N	Comments	Kit Description	Kit Number
1140	36B1-UP		Out of Frame Overhaul	Contact Bulldog
1145	97B1-UP		In Frame Overhaul	BD-3208-001IF
1150	96B1-UP		Cylinder Head Replacement	BD-3208-001HS
1160	95B1-UP		Single Head Replacement	BD-3208-001SH

1673C	76R1-272	P.C. Engines Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement *Aftercooler & Lines (if required)	BD-3306-008OF *BD-3306-008IF *BD-3306-008HS *CT-5P8772
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3114	5YL1-UP	ATAAC (Air to Air Aftercooled)		Contact Bulldog
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3116	2BK1-UP 7JL1-UP 7SF1-UP 9LN1-UP	ATAAC (Air to Air Aftercooled) MUI & EUI Engines only	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3116-003OF BD-3116-001IF BD-3116-001HS
3116	5EN1-UP	ATAAC (Air to Air Aftercooled) MUI & EUI Engines only	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3116-003OF BD-3116-001IF BD-3116-002HS
3116	5EN1-UP	JWAC (Jacket Water Aftercooled)		Contact Bulldog
3116	2FR1-UP 9CJ1-UP 9GK1-UP 9YN1-UP	ATAAC (Air to Air Aftercooled)	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3116-003OF BD-3116-001IF BD-3116-001HS

3126	1WM1-26507 4ES1-UP	2 Valves per Cylinder		Contact Bulldog
3126 3126B 3126E	6PZ1-UP 8SZ1-UP 7AS1-UP 9SZ1-UP CKM1-UP	3 Valves per Cylinder	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3126-002OF BD-3126-002IF Contact Bulldog
3126B	8YL1-UP	3 Valves per Cylinder	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	Contact Bulldog BD-3126-002IF Contact Bulldog

Over-the-Road Truck Engines				
Engine Model	Engine S/N	Comments	Kit Description	Kit Number
3208NA	40S1-UP 32Y1-UP 51Z1-UP	Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement	BD-3208-001OF BD-3208-001IF BD-3208-001HS BD-3208-001SH
3208T	2Z1-UP	Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement Single Head Replacement	BD-3208-002OF BD-3208-002IF BD-3208-002HS BD-3208-002SH

3306		Non Spacer Plated	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement *Aftercooler & Lines (if required)	Contact Bulldog *BD-3306-005IF *BD-3306-005HS *CT-5P8772
3306	76R273-UP	P.C. Engines Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement *Aftercooler & Lines (if required)	BD-3306-008OF *BD-3306-008IF *BD-3306-008HS *CT-5P8772
3306B	63Z1-UP 5KD1-UP	D.I. Engines Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement *Aftercooler & Lines (if required)	BD-3306-009OF *BD-3306-009IF *BD-3306-009HS *CT-5P8772
3306B	63Z1-UP 5KD1-UP	D.I. Engines Non Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-038OF BD-3306-038IF BD-3306-038HS
3306C	7RJ1-UP 9TL1-UP	D.I. Engines Turbocharged	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3306-038OF BD-3306-038IF BD-3306-038HS

Over-the-Road Truck Engines				
Engine Model	Engine S/N	Comments	Kit Description	Kit Number
3406	92U1-5943	With Lube thru Cyl Head Studs	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-004OF BD-3406-004IF BD-3406-004HS
3406	92U5944-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-003OF BD-3406-003IF BD-3406-003HS
3406B	4MG1-UP 7FB1-UP	JWAC (Jacket Water Aftercooled)	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-005OF BD-3406-005IF BD-3406-005HS
3406B	3ZJ1-16181 4MG1-UP 5KJ1-7799 7FB1-UP 8TC1-UP	ATAAC (Air to Air Aftercooled)	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-006OF BD-3406-006IF BD-3406-006HS
3406C	3ZJ16182-UP 4CK846-UP 5KJ7800-UP	ATAAC (Air to Air Aftercooled) With 19 Bolt Flywheel Housing	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-011OF BD-3406-011IF BD-3406-011HS
3406C	3ZJ16182-UP 8PN1-UP	ATAAC (Air to Air Aftercooled) With 24 Bolt Flywheel Housing Non Brakesaver	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-026OF BD-3406-026IF BD-3406-026HS
3406E	1LW1-UP 2WS1-UP 5DS1-UP 5EK1-UP 6TS1-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-031OF BD-3406-031IF BD-3406-031HS
3406E	1MM1-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3406-032OF Contact Bulldog BD-3406-032HS
3408	28V1-427	With Lube thru Cyl Head Studs	In Frame Overhaul Cylinder Head Replacement	BD-3408-008IF Contact Bulldog
3408	28V428-UP		Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	BD-3408-009OF BD-3408-009IF BD-3408-009HS

Over-the-Road Truck Engines				
Engine Model	Engine S/N	Comments	Kit Description	Kit Number
C-12	1YN1-UP	Scalloped Head Gasket	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	Contact Bulldog BD-C12-003IF Contact Bulldog
C-12	1YN1-UP	Straight Head Gasket	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	Contact Bulldog BD-C12-004IF Contact Bulldog
C-12	2KS1-UP	Scalloped Head Gasket	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	Contact Bulldog BD-C12-005IF Contact Bulldog
C-12	2KS1-UP	Straight Head Gasket	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	Contact Bulldog BD-C12-006IF Contact Bulldog
C-12	9NS1-UP	Scalloped Head Gasket	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	Contact Bulldog BD-C12-001IF Contact Bulldog
C-12	9NS1-UP	Straight Head Gasket	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	Contact Bulldog BD-C12-002IF Contact Bulldog
C-12	CPD1-UP	Straight Head Gasket	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	Contact Bulldog BD-C12-009IF Contact Bulldog
C-12	MBL1-UP	Straight Head Gasket	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	Contact Bulldog BD-C12-007IF Contact Bulldog
C-15	6NZ1-UP 9NZ1-UP MBN1-UP	Injector Seals, Oil Pan Isolation Seal or Oil Pan Gaskets Non Included	Out of Frame Overhaul In Frame Overhaul Cylinder Head Replacement	Contact Bulldog BD-C15-001IF Contact Bulldog