



## IPDStyle 1-2-3™ GASKET SETS

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

# IPD HEAVY-DUTY GASKETS

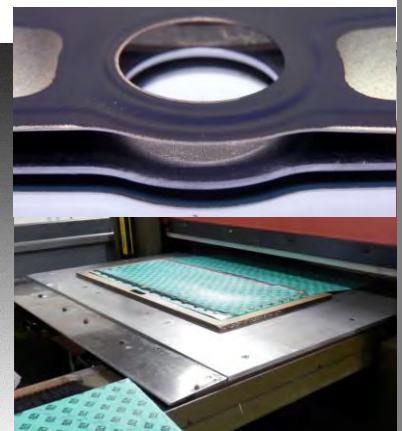


## IPD QUALITY, INNOVATION, SERVICE & SUPPORT

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

## IPD VALUE

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



IPDStyle 1-2-3 Complete Gasket Set Catalog

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

APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
3406A	92U1-5943	W / Lube Thru Cyl Head Studs	406041	406042	406043
3406A	92U5944-Up		406031	406032	406033
3406B	7FB1-Up 4MG1-Up	JWAC (Jacket Water Aftercooled)	406051	406052	406053
3406B	7FB1-Up 4MG1-Up 5KJ1-7799 8TC1-Up 3ZJ1-16181	ATAAC (Air to Air Aftercooled)	406061	406062	406063
3406C	3ZJ16182-60112 4CK846-Up 5KJ7800-Up	ATAAC (Air to Air Aftercooled) <b>W/19 Bolt Flywheel Housing</b>	406111	406112	406113
3406C	3ZJ60113 -Up	ATAAC (Air to Air Aftercooled) Non-Brake Saver W/Round Exhaust Ports	406271	406272	406273
3406C	8PN1-Up	ATAAC (Air to Air Aftercooled) Non-Brake Saver W/Round Exhaust Ports	406271	406272	406273
3406E	5EK1-Up 6TS1-Up 1LW1-Up 5DS1-Up 2WS1-Up		406461	406462	406463
3406E	1MM1-Up			406472NLS	406473
C7	WAX 1-Up SAP 1-Up KAL 1-Up	With Oil Pan Isolation Seal (1662905)	C70001	C70002	C70003
C7	WAX 1-Up SAP 1-Up KAL 1-Up	With Oil Pan Gakset (2613816)	C70011	C70012	C70003
C7	C7S 1-Up	With Oil Pan Isolation Seal (1662905)	C70021	C70022	C70023
C7	C7S 1-Up	With Oil Pan Gakset (2613816)	C70031	C70032	C70023
C9	9DG1-Up		C90001NLS	C90002NLS	C90003
C10	MBJ 1-Up	Straight Style Head Gasket	C10011STRNLS	C10012STRNLS	C10013STR
C10	2PN1-Up 8YS1-Up 3CS1-Up	Scalloped Style Head Gasket	C10001SCLNLS	C10002SCLNLS	C10003SCL
C10	2PN1-Up 8YS1-Up 3CS1-Up	Straight Style Head Gasket	C10001STRNLS	C10002STRNLS	C10003STR
C-12	9NS1-Up	Scalloped Style Head Gasket		C12002SCLNLS	C12003SCL
C-12	9NS1-Up	Straight Style Head Gasket		C12002STRNLS	C12003STR
C-12	2KS1-Up	Scalloped Style Head Gasket		C12022SCLNLS	C12003SCL
C-12	2KS1-Up	Straight Style Head Gasket		C12022STRNLS	C12003STR
C-12	MBL1-Up	Straight Style Head Gasket		C12032STRNLS	C12003STR
C-12	CPD1-Up	Straight Style Head Gasket		C12052STRNLS	C12003STR
C-12	1YN1-Up	Straight Style Head Gasket		C12012STRNLS	C12003STR

APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
C-12	1YN1-Up	Scalloped Style Head Gasket		C12012SCLNLS	C12003SCL
C-12		Contains 1260110 Front Seal & 7C1728 (Dry) Single Lip Rear Seal*	C12009		
C-12		Contains 1694166 Front Seal & 7C1728 (Dry) Single Lip Rear Seal*	C12019		
C-12		Contains 1260110 Front Seal & 1005421 (Wet) Double Lip Rear Seal*	C12029		
C-12		Contains 1694166 Front Seal & 1005421 (Wet) Double Lip Rear Seal*	C12039		
<b>*Use Kits Listed Above W/IPD Style InFrame Gasket Kit To Complete An Overhaul Set</b>					
C13	JAM1-Up	(Dry) Single Lip Rear Seal (MLS) Multiple Layer Steel) Gasket	C13001NLS	C13002NLS	C13003
C13	JAM1-Up	(Dry) Single Lip Rear Seal COMPOSITE HEAD GASKET Head Gasket	C13001CPNLS	C13002CPNLS	C13003CP
C13	JAM1-Up	(Wet)Double Lip Rear Seal (MLS) Multiple Layer Steel) Gasket	C13011NLS	C13002NLS	C13003
C13	JAM1-Up	(Wet) Double Lip Rear Seal COMPOSITE HEAD GASKET Head Gasket	C13011CPNLS	C13002CPNLS	C13003CP
C13	KCB1-Up	(Wet)Double Lip Rear Seal (MLS) Multiple Layer Steel) Gasket	C13021NLS	C13022NLS	C13023
C13	KCB1-Up	(Wet) Double Lip Rear Seal COMPOSITE HEAD GASKET Head Gasket	C13021CPNLS	C13022CPNLS	C13023CP
C13	KCB1-Up	(Dry) Single Lip Rear Seal (MLS) Multiple Layer Steel) Gasket	C13031NLS	C13022NLS	C13023
C13	KCB1-Up	(Dry) Single Lip Rear Seal COMPOSITE HEAD GASKET Head Gasketk	C13031CPNLS	C13022CPNLS	C13023CP
C13	LEE1-Up	(Dry) Single Lip Rear Seal (MLS) Multiple Layer Steel) Gasket	C13041NLS	C13042NLS	C13043
C13	LEE1-Up	(Dry) Single Lip Rear Seal COMPOSITE HEAD GASKET Head Gasketk	C13041CPNLS	C13042CPNLS	C13043CP
C13	LEE1-Up	(Wet )Double Lip Rear Seal (MLS) Multiple Layer Steel) Gasket	C13051NLS	C13042NLS	C13043
C13	LEE1-Up	(Wet) Double Lip Rear Seal COMPOSITE HEAD GASKET Head Gasket	C13051CPNLS	C13042CPNLS	C13043CP
C-15	6NZ1-Up 9NZ1-Up MBN1-Up	Does Not Include Oil Pan Isolation Seal or Oil Pan Gasket Fuel Injector O-Rings Not Included	C15001	C15002	C15003
C-15	MXS1-Up NXS1-Up BXS1-Up	Does Not Include Oil Pan Isolation Seal or Oil Pan Gasket Fuel Injector O-Rings Not Included	C15011NLS	C15012NLS	C15013
C-15	EGH1-Up	Injector seals not included	C15021	C15022	C15023
C-15	SDP1-Up	Does Not Include Oil Pan Isolation Seal or Oil Pan Gasket Fuel Injector O-Rings Not Included	C15041NLS	C15042NLS	C15043
C18	MDP1-Up	Does Not Include Oil Pan Isolation Seal or Oil Pan Gasket Fuel Injector O-Rings Not Included	C18041NLS	C18042NLS	
3408	28V1-427			408082	408083
3408	28V428-Up		408091	408092	408093
3406 B, C, & D		Brake Saver Lines Kit			406009
3406	Non-Plated Pan	Bearing Roll In Kit			406019
3406	Plated Pan	Bearing Roll In Kit			406029
3406 A & B		Water Pump Rebuild Gasket & Seal Kit ( Inc. shaft seal, mounting gaskets & 4N1400 filter)			406028
3406 A & B		Water Pump Mounting Kit ( Includes only gaskets and seals to mount pump )			406018
3406 A, B, & C		Fuel Pump Mounting Set (Includes only gaskets and seals to mount pump)			406039

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

APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation)		ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
3306 (333C 4.75" Bore)	Industrial	66D1-Up	Non Spacer Plated Turbocharged or Non-Turbocharged P.C. Engines <b>* Order Aftercooler Gasket Kit Separately if Required</b> <b>* If Expansion Tank Gaskets Are Needed, Order 6V0621 Gasket Set</b>	306391*		
3306	Industrial	66D1-Up	Spacer Plated Turbocharged or Non-Turbocharged P.C. Engines <b>* Order Aftercooler Gasket Kit Separately if Required</b> <b>* If Expansion Tank Gaskets Are Needed, Order 6V0621 Gasket Set</b>	306371	306372*	306373*
3306B	Industrial	7JB1-Up 5JC1-Up 8JJ1-Up 6PK1-Up 1CZ1-Up 64Z1-Up 85Z1-Up	Turbocharged Spacer Plated  <b>* Order Aftercooler Gasket Kit Separately if Required</b> <b>* If Expansion Tank Gaskets Are Needed, Order 6V0621 Gasket Set</b>	306381	306382*	306383*
3306	Marine	67D1-2863	Turbocharged Non Spacer Plated <b>* Order Aftercooler Gasket Kit Separately if Required</b>	306311	306312	306313
3306	Marine	67D2864-Up	Turbocharged Spacer Plated <b>* Order Aftercooler Gasket Kit Separately if Required</b>	306321	306322	306323
3306B	Marine	84Z1-Up	Turbocharged Spacer Plated <b>* Order Aftercooler Gasket Kit Separately if Required</b>	306331	306332	306333
C7	Industrial	JRA1-Up		C70111	C70112	C70113
C7	Industrial	JTF1-Up	<b>Single Lip Rear Seal &amp; Dry Exhaust Manifolds</b>	C70121	C70122	C70123
C9	Industrial	MBD1-Up		C90071NLS	C90072NLS	C90073
C9	Industrial	JSC1-Up		C90081NLS	C90082NLS	C90083
C9	Industrial	CLJ1-Up		C90111NLS	C90112NLS	C90113
C12	Industrial	BDL1-Up	Straight Stlye Head Gasket 1095308 Isolation Seal Not Included* <b>*See Truck Kits For Overhaul Kit Information</b>		C12042STRNLS	C12003STR
C13	Industrial	LGK1-Up PDN1-Up PFW1-Up RRA1-Up	(Dry) Single Lip Rear Seal With Composite Head Gasket	C13061NLS	C13062NLS	C13063
C13	Industrial	LGK1-Up PDN1-Up PFW1-Up RRA1-Up	(Dry) Single Lip Rear Seal With MLS (Multiple Layer Steel) Head Gasket	C13061CPNLS	C13062CPNLS	C13063CP
3406A	Industrial	90U2159-Up 75Z1-Up	<b>* If Aftercooler Gaskets Are Needed for 75Z, Order 1909861 Gasket Set</b>	406121	406122*	406123*
3406B	Industrial Generator	2WB1-Up 6TB1-Up	USE W/19 Bolt Flywheel Housing	406021	406022	406023
3406B	Industrial Generator	2WB1-Up 6TB1-Up	W/24 Bolt Flywheel Housing	406411	406412	406413

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



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

APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation)		ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
3508	Generator	1FZ1-Up		508081NLS		508083
3508	Locomotive	6TJ1-Up			In Development	
3512	Industrial	49Y1-Up 65Z1-Up 51Y1-Up	With Dry Exhaust Manifolds	512031		512033
			Single Head Replacement Set			508054
		65Z1-Up	With Wet Exhaust Manifolds	512041	512042	512043
			Single Head Replacement Set			508064
	Generator Set	24Z1-Up 67Z1-Up	With Dry Exhaust Manifolds	512031		512033
			Single Head Replacement Set			508054
		67Z1-Up	With Wet Exhaust Manifolds	512041	512042	512043
			Single Head Replacement Set			508064
3512B	Generator Set	8RM1-Up	With Dry Ceramic Exhaust Manifolds. (New EUI)	512161		512163
			Single Head Replacement Set With Dry Ceramic Exhaust Manifolds (New EUI)			516164
			<b>Note:</b> The New EUI sets contain a molded rubber seal for the rocker box and cannot be interchanged with the older EUI and MUI flat rocker box gaskets.			
			<b>Note:</b> The New IPD 1679527 seals for Dry Ceramic Manifold Segments are not included in any gasket sets but are available individually.			
3512B	Generator Set	6WN1-Up 6GW1-Up	With Dry Exhaust Manifolds (New EUI)			512073
			Single Head Replacement Set			508074
			<b>Note:</b> The New EUI sets contain a molded rubber seal for the rocker box and cannot be interchanged with the older EUI and MUI flat rocker box gaskets.			
			<b>Note:</b> The New IPD 1679527 seals for Dry Ceramic Manifold Segments are not included in any gasket sets but are available individually.			
3512B	Generator Set	4AW1-Up	With Dry Exhaust Manifolds (New EUI)	512071NLS		512073
			Single Head Replacement Set			508074
3512	Marine	50Y1-Up 66Z1-Up	With Wet Exhaust Manifolds	512041	512042	512043
			Single Head Replacement Set			508064
			<b>Note:</b> The New EUI sets contain a molded rubber seal for the rocker box and cannot be interchanged with the older EUI and MUI flat rocker box gaskets.			
			<b>Note:</b> The New IPD 1679527 seals for Dry Ceramic Manifold Segments are not included in any gasket sets but are available individually.			
3512B	Marine	4TN1-Up 3RS1-Up 3WS1-Up	With Dry Exhaust Manifolds			
			Single Head Replacement Set With Dry Ceramic Exhaust Manifolds (Old EUI)			516124
			Single Head Replacement Set With Dry Ceramic Exhaust Manifolds (New EUI)			516164
			<b>Note:</b> The New EUI sets contain a molded rubber seal for the rocker box and cannot be interchanged with the older EUI and MUI flat rocker box gaskets.			
			<b>Note:</b> The New IPD 1679527 seals for Dry Ceramic Manifold Segments are not included in any gasket sets but are available individually.			
			<b>Note:</b> The New IPD 1679527 seals for Dry Ceramic Manifold Segments are not included in any gasket sets but are available individually.			
3512B	Marine	1PW1-Up 7HM1-Up 8EM1-Up 8RM1-Up	With Dry Ceramic Exhaust Manifolds (New EUI)	512161		512163
			Single Head Replacement Set With Dry Ceramic Exhaust Manifolds (New EUI)			516164
			<b>Note:</b> The New EUI sets contain a molded rubber seal for the rocker box and cannot be interchanged with the older EUI and MUI flat rocker box gaskets.			
			<b>Note:</b> The New IPD 1679527 seals for Dry Ceramic Manifold Segments are not included in any gasket sets but are available individually.			
3512	Locomotive	2WK			In Development	

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

APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation)		ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
D343	Marine	33B668-3027 62B1-Up	Non Spacer Plated  <b>* Rear Crankshaft Seal is NOT Included</b> <b>Note that above D343's use two different Head Replacement Sets, parts to do both are included in the Overhaul set</b>	343011*		343013
D343	Marine	33B3028-Up	Spacer Plated <b>* Contains 5S3903 Silicone Lip Rear Crankshaft Seal Only</b>	343061*		343063
D343	Industrial	62B6728-Up	Spacer Plated <b>* Rear Crankshaft Seal is NOT Included</b>	343081*		343083
D353	Industrial	46B1-869	Non Spacer Plated	353031	353032	353033
D353	Industrial	46B870-6446 77B1-Up	Non Spacer Plated	353051	353052	353053
D353	Industrial	46B6447-Up 46B870-6446 Converted Engines	Spacer Plated	353071	353072	353073
D353	Marine	47B1-469	Non Spacer Plated	353031	353032	353033
D353	Marine	47B470-4207	Non Spacer Plated Single Head Replacement Set	353061	353062	353063 353064
D353	Marine	47B470-Up Converted Engines	Spacer Plated	353071	353072	353073
D379	Industrial	68B2540-Up	Incl. special IPD Composite Head Gasket Single Head Replacement Set Includes Ferrules Incl. special IPD Composite Head Gasket Single Head Replacement Set Includes Ferrules for <b>H<sub>2</sub>O Shielded Manifold</b> Incl. special IPD Composite Head Gasket Single Head Replacement Set Includes Ferrules for <b>H<sub>2</sub>O Cooled Manifold</b> Incl. special IPD Composite Head Gasket	379011 379011CP	379012 379012CP	379013 379013CP 399014 399014CP 399044 399044CP 399144 399144CP
D379	Marine	69B1227-Up	Incl. special IPD Composite Head Gasket Single Head Replacement Set Includes Ferrules for <b>H<sub>2</sub>O Shielded Manifold</b> Incl. special IPD Composite Head Gasket Single Head Replacement Set Includes Ferrules for <b>H<sub>2</sub>O Cooled Manifold</b> Incl. special IPD Composite Head Gasket	379041 379041CP	379042 379042CP	379043 379043CP 399044 399044CP 399144 399144CP
D398	Industrial	66B1-3560 75B1-Up	Incl. special IPD Composite Head Gasket Single Head Replacement Set Includes Ferrules Incl. special IPD Composite Head Gasket Single Head Replacement Set Includes Ferrules for <b>H<sub>2</sub>O Shielded Manifold</b> Incl. special IPD Composite Head Gasket Single Head Replacement Set Includes Ferrules for <b>H<sub>2</sub>O Cooled Manifold</b> Incl. special IPD Composite Head Gasket	398011 398011CP		398013 398013CP 399014 399014CP 399044 399044CP 399144 399144CP
D398	Industrial	66B3561-Up	Incl. special IPD Composite Head Gasket Single Head Replacement Set Includes Ferrules Incl. special IPD Composite Head Gasket Single Head Replacement Set Includes Ferrules for <b>H<sub>2</sub>O Shielded Manifold</b> Incl. special IPD Composite Head Gasket Single Head Replacement Set Includes Ferrules for <b>H<sub>2</sub>O Cooled Manifold</b> Incl. special IPD Composite Head Gasket	398031 398031CP	398032 398032CP	398023 398023CP 399014 399014CP 399044 399044CP 399144 399144CP

APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE	
D398	Marine	67B1391-Up		398061	398062	398063
			Incl. special IPD Composite Head Gasket	398061CP	398062CP	398063CP
			Single Head Replacement Set Includes Ferrules			399014
			Incl. special IPD Composite Head Gasket			399014CP
			Single Head Replacement Set Includes Ferrules for <b>H<sub>2</sub>O Shielded Manifold</b>			399044
			Incl. special IPD Composite Head Gasket			399044CP
D398	Generator	35Z1-Up		398021	398032	398023
			Incl. special IPD Composite Head Gasket	398021CP	398032CP	398023CP
			Single Head Replacement Set Includes Ferrules			399014
			Incl. special IPD Composite Head Gasket			399014CP
			Single Head Replacement Set Includes Ferrules for <b>H<sub>2</sub>O Shielded Manifold</b>			399044
			Incl. special IPD Composite Head Gasket			399044CP
D399	Industrial	35B688-Up 36Z1-1920		399021	399022	399023
			Incl. special IPD Composite Head Gasket	399021CP	399022CP	399023CP
			Single Head Replacement Set Includes Ferrules			399014
			Incl. special IPD Composite Head Gasket			399014CP
			Single Head Replacement Set Includes Ferrules for <b>H<sub>2</sub>O Shielded Manifold</b>			399044
			Incl. special IPD Composite Head Gasket			399044CP
D399	Marine	91B253-Up		399031	399032	399033
			Incl. special IPD Composite Head Gasket	399031CP	399032CP	399033CP
			Single Head Replacement Set. Includes Ferrules			399014
			Incl. special IPD Composite Head Gasket			399014CP
			Single Head Replacement Set Includes Ferrules for <b>H<sub>2</sub>O Shielded Manifold</b>			399044
			Incl. special IPD Composite Head Gasket			399044CP
<b>MISCELLANEOUS SETS</b> D379 / D398 / D399						399144
			Single Head Replacement Set Includes Ferrules for <b>H<sub>2</sub>O Cooled Manifold</b>			399144
			Incl. special IPD Composite Head Gasket			399144CP
			Fresh Water Pump Gasket & Seal Set ( includes installation gaskets )			398008
			Fresh Water Pump Installation Set ( To install unit only )			399018
			Raw Water Pump installation Set ( To Install unit only )			399008
			Lube Oil Pump Installation Set ( To install unit only )			399006
			Fuel Transfer Pump Installation Set ( To install unit only )			399009
<b>FRONT AND REAR CRANKSHAFT SEALS</b> D379 / D398 / D399		Crankshaft Seal Ring	( Not included in any D379 / D398 / D399 IPD Style Gasket Sets )			399005
			Aftercooler Installation Set ( To install unit only )			399015
<b>FRONT AND REAR CRANKSHAFT SEALS-DIRECTIONAL TYPE</b> D379 / D398 / D399						3N9160
			Standard Rotation-Counter Clockwise-Viewing Engine Facing Flywheel		Front Seal	4W2606
			Opposite Rotation-Clockwise-Viewing Engine Facing Flywheel		Rear Seal	4W2606
			Standard Rotation-Counter Clockwise-Viewing Engine Facing Flywheel		Rear Seal	4W2607
			Opposite Rotation-Clockwise Viewing-Engine Facing Flywheel		Front Seal	4W2607
<b>CRANKSHAFT DIRECTIONAL TYPE SEAL CONVERSION GROUPS</b> D379 / D398 / D399						
			Standard Rotation-Counter Clockwise-Viewing Engine Facing Flywheel		Front	4W2568
			(Includes: Adapter, Seal, And Mounting Gasket)		Rear	4W2569
			Opposite Rotation-Clockwise-Viewing Engine Facing Flywheel		Front	4W2570
			(Includes: Adapter, Seal, And Mounting Gasket)		Rear	4W2571

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

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

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



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

APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation)			ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
D5B	3306	26X878-Up 21Y878-Up	8Z1-Up 10z1-Up 13Z1-Up 1AF1-Up	Spacer Plated Non Turbocharged	306071	306072	306073
D5C	3204	3MK1-Up 6PJ1-Up	45V97770-Up 7YJ1-Up	Turbocharged Engine W/ Large Oil Cooler	204091	204092	204093
D5H	3304	1DC1-Up 7NC1-Up 8RC1-Up 9HC1-Up	12Z10967-Up	Spacer Plated Turbocharged	304091	304092	304093
D6C	3306	17R1-464 10K1-7952 46J1-868 47J1-2559 99J1-1753		Non Spacer Plated Non Turbocharged	306041	306042	306043
D6C	3306	10K7953-Up 46J869-Up 47J2560-Up 99J1754-Up 69U316-Up 17R465-Up		Non Spacer Plated Turbocharged  <b>* Order Aftercooler Gasket Kit Separately if Required</b>	306111*	306112*	306113*
D6C D6D	3306	19X1-Up 20X1-Up 46J1-Up 47J1-Up	49V1-24230	Non Spacer Plated Turbocharged Engine  <b>* Order Aftercooler Gasket Kit Separately if Required</b>	306031*	306032*	306033*
D6D	3306	3X1-Up 4X1-Up 5X1-Up 6X1-Up 19X1-Up 20X1-Up 30X1-Up 31X1-Up 32X1-Up	3N1-77760 3N1-79762 44V1-22286 44V1-22350 47V1-17093	Non Spacer Plated Turbocharged  <b>* Order Aftercooler Gasket Kit Separately if Required</b>	306121*	306122*	306123*
D6D	3306	3X1-Up 4X1-Up 5X1-Up 6X1-Up 19X1-Up 20X1-Up 30X1-Up 31X1-Up 32X1-Up	3N79763-Up 44V22287-Up 44V22351-Up 47V17094-Up 49V24231-Up	Spacer Plated Turbocharged	306021	306022*	306023*
D6D D6H	3306		8Z1-Up 10z1-Up 13Z1-Up 1AF1-Up	Spacer Plated Turbocharged  <b>* Order Aftercooler Gasket Kit Separately if Required</b>	306271*	306272*	306273*
D6M	3116	4JN-Up 3WN1-Up 9ZM1-Up	4TF1-Up		116051	116052	116053

APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation)		ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE	
D6R	C9	AAX1-Up ACJ1-Up ADE1-Up AEM1-U AEP1-Up AFM1-Up AGM1-Up BLE1-Up BLT1-Up BMJ1-Up BMY1-Up BNC1-Up BPM1-Up BPP1-Up BPS1-Up BOZ1-Up BRE1-Up BRJ1-Up BRJ1-Up CAD1-Up DAE1-Up FDT1-Up	SAN1-Up 4ZF1-Up		C90031NLS	C90012NLS	C90013
D6R	C9	DLM-Up DMK-Up DPS-Up GJB1-Up GMT1-Up HCD1-Up HKE1-Up JDL1-Up LFM1-Up MRT1-Up MTJ1-Up MTJ1-Up RFC1-Up TBC1-Up WRG1-Up	THX1-IP THY1-Up		C90031	C90032NLS	C90033
D6T	C9	JHB1-Up	THX1-Up		C90091NLS	C90092NLS	C90093
D7F	3306	93N1-1174 94N1-5191		Non Spacer Plated Turbocharged	306041	306042	306043
D7G	3306		3N1-79762 44V1-22402* *Approximate Please note that serial numbers vary concerning spacer or non spacer	Non Spacer Plated Turbocharged	306121*	306122*	306123*
<b>* Order Aftercooler Gasket Kit Separately if Required</b>							
D7G	3306		3N79763-Up 44V22403-Up* 62Z1-Up *Approximate Please note that serial numbers vary concerning spacer or non spacer	Spacer Plated Turbocharged P.C.	306021	306022*	306023*

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

APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation)			ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
D8T	C15	J8B1-Up KBZ1-Up	LHX1-Up	Single Lip Rear Seal 3535065 Oil Pan Gasket Not Included	C15071NLS	C15072NLS	C15073
D8T	C15	FCT1-Up MLN1-Up	TXL1-Up	Double Lip Rear Seal	C15091NLS	C15092NLS	C15093
D9G	D353	66A 1-1644		Non Spacer Plated P.C. Engine	353111	353112	353113
D9G	D353	66A 1645-Up		Non Spacer Plated P.C. Engine	353121	353122	353123
D9H	D353	90V1-Up 97V1-Up 98V1-Up 98V1-Up	97U1-7921	Non Spacer Plated P.C. Engine	353131	353132	353133
				Single Head Replacement Set			353134
D9H	D353	90V1-Up 97V1-Up 98V1-Up 98V1-Up	97U7922-Up	Spacer Plated P.C. Engine	353011	353012	353013
				Single Head Replacement Set			353014
D9L	3412	14Y 1-Up	73W1224-Up	D.I. Engine	412041		
D9N	3408	1JD1-Up 6XJ1-Up	48W23086-Up 48W35650-Up	D.I. Engine	408131	408132	408133
D9R	3408	7TL1-Up 8BL1-Up	99C1-Up 48W1-Up		408381		408363
				<b>HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included</b>			
D9T	3408E	7TL1-Up ABK1-Up ACL1-Up	5XD1-Up		408111NLS	408112NLS	408113
D9T	C18	RJS1-Up	RHX1-Up		C18001NLS	C18002NLS	C18003
D10	D348	84W1-609 76X1-363	98S1-1454	Head Gasket Not Included	348031WOHGNLS		
				Single Head Replacement Set - Head Gasket Not Included			348044WOHG
				Cylinder Block Repair Shim Set			348099
D10	D348	84W610-Up 76X364-Up	98S1455-Up		348041WOHGNLS		
				Single Head Replacement Set - Head Gasket Not Included			348044WOHG
				Cylinder Block Repair Shim Set			348099
D10N	3412	2YD 1-Up	73W8338-Up	D.I. Engine	412071	412072	412073
				Single Head Replacement Set			412074
D10N	3412E	3SK1-Up 2YD1-Up	5JJ4562-Up	<b>DOES NOT INCLUDE 8 OF 1007401 EXHAUST MANIFOLD SEGMENT SEAL OR AFTERCOOLER GASKETS</b>	IN DEVELOPMENT		
D10N	3412	BCR1-Up	5JJ4562-Up	D.I. Engine	412021NLS	412022NLS	412023
D10R	3412	3KR 1-Up	80M1-Up		412371		412373
				<b>HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included</b>			412374
D10R	3412E	AKT1-Up	5JJ4562-Up	<b>DOES NOT INCLUDE 8 OF 1007401 EXHAUST MANIFOLD SEGMENT SEAL OR AFTERCOOLER GASKETS</b>	412021NLS	412022NLS	412023
D10T	C27	RJG1-Up	EHX1-Up		C27021NLS	C27022NLS	C27023
D11N	3508	74Z 1-Up	99W1-Up		508011		508013
				Single Head Replacement Set			508014
D11N	3508	4HK 1-Up	7YG203-Up		508021		508023
				Single Head Replacement Set			508024
				<b>DOES NOT INCLUDE 6V6640 GASKET MAKER FOR REAR COVER</b>			
D11R	3508	8ZR 1-Up	7YG1-Up			In Development	
D11R	3508B	7PZ1-Up 9TR1-Up 9XR1-Up	2GR1-Up	EUI Engine (Electronic Unit Injector)	508121		508123
				Single Head Replacement Set			508124

APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation)			ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
D11T	C32	AMA1-UP	WZH1-UP		C32001NLS	C32002NLS	C32003
D11T	C32	WHH1-UP	JEL1-UP JNS1-UP		C32011NLS	C32012NLS	C32013
D11T	C32	LJW1-UP	GEB1-UP		C32111NLS	C32042NLS	C32043
<b>MOTOR GRADERS</b>							
12F	3306	89H1-1537 13K1-5286		Non Spacer Plated Non Turbocharged	306041	306042	306043
12F 12G	3306		3N1-79762	Non Spacer Plated Non Turbocharged	306031	306032	306033
12F 12G	3306		3N79763-Up	Spacer Plated Non Turbocharged	306011	306012	306013
12G 12H	3306	3WC1-Up 4ER1-Up 61M1-Up 8MN1-Up	8Z1-Up	Spacer Plated Non Turbocharged	306071	306072	306073
12G 12H	3306	3WC1-Up 4ER1-Up 61M1-Up 8MN1-Up	8Z1-Up	Spacer Plated Turbocharged	306271	306272	306273
12G 12H	3306	2WR1-Up 3PL1-Up	8TD1-Up			In Development	
12HES	3306	2LR	8Z1-Up			In Development	
12HNS	3306	4XM	8Z1-Up			In Development	
14E	3306	72G1-1340 12K1-2198		Non Spacer Plated Turbocharged	306151	306152	306153
14E 14G	3306		3N1-79762	Non Spacer Plated Turbocharged	306161	306162	306163
14E 14G	3306		3N79763-Up	Spacer Plated Turbocharged	306021	306022	306023
14G 14H	3306	96U1-Up 6WM1-Up 7WJ1-Up	8Z1-Up	Spacer Plated Turbocharged	306271	306272	306273
<b>* Order Aftercooler Gasket Kit Separately if Required</b>							
14H	3176C	ASE 1-Up	3PD 1-Up	STRAIGHT HEAD GASKET	176021STRNLS	176022STRNLS	176023STR
16	D343	49G 1-Up				In Development	
16G	3406	93U1179-2678	70V4105-Up		406241	406242	406243
16G	3406	93U2679-Up	70V36899-Up 11N1449-Up	DITA <b>W/24 Bolt Flywheel Housing</b> Fuel Pump Installation Set	406341	406342	406343 406039
16H	3406	6ZJ 1-Up	11N13000-Up 41Z1-Up	DITA <b>W/24 Bolt Flywheel Housing</b> Fuel Pump Installation Set	406341	406342	406343 406039
16M	C13	R9H1-Up	MHX1-Up	Wet Rear Housing W/MLS (Multiple Layer Steel) Head Gasket	C13071NLS	C13072NLS	C13073
16M	C13	R9H1-Up	MHX1-Up	Wet Rear Housing W/Composite Head Gasket	C13071CPNLS	C13072CPNLS	C13073CP
24M	C18	B9K1-Up	RHX1-Up		C18111NLS	C18112NLS	C18113
112F	3304	80J1-402 89J1-1895		Non Spacer Plated Non Turbocharged	304131	304012	304013
112F	3304	80J403-Up 89J1896-Up		Non Spacer Plated Non Turbocharged	304031	304032	304033
112F	3304		78P1-Up	Non Spacer Plated Non Turbocharged	304031	304032	304033

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

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



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

APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation)		ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
324D	C7	AZP1-Up BFC1-Up BZW1-Up C3N1-Up C4H1-Up C8L1-Up C9M1-Up	KHX 1-Up		C70082	C70083
325	3116	6RM1-Up 7TG1-Up 8JG1-Up 8NL1-Up 8YK1-Up 9SG1-Up	98Z1-Up 1CK1-Up 4TF1-Up	116031		116023
325B	3116	8GM1-Up 8PR1-Up	4TF1-Up	116031		116023
325BL	3116	1GS1-Up 2JR1-Up 7EN1-Up 8RR1-Up	98Z1-Up 4TF1-Up	116031		116023
325D	C7	GBR1-Up GBP1-Up KAY1-Up KRJ1-Up MCL1-Up PKE1-Up	C7C 1-Up		C70062	C70063
325D	C7	DBH1-Up JZR1-Up KBE1-Up KDG1-Up KGG1-Up LAB1-Up LAL1-Up LGN1-Up MCL1-Up MKR1-Up MNB1-Up SCR1-Up TSN1-Up	C7C 1-Up		C70082	C70083
325D	C7	DBH1-Up DJF1-Up EBM1-Up GBP1-Up JCL1-Up GBR1-Up JGK1-Up JHJ1-Up JJG1-Up SCY1-Up SRC1-Up T2D1-Up TPM1-Up TSN1-Up	KHX1-Up		C70082	C70083
325L	3116	2JK1-Up 2SL1-Up 7CJ1-Up 7LJ1-Up 7LM1-Up 8NK1-Up	98Z1-Up 1CK1-Up 4TF1-Up	116031		116023

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

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

APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation)			ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
EL300	3306	4NF101-Up	10Z9394-Up	Spacer Plated Turbocharged D.I. Engine <b>* Order Aftercooler Gasket Kit Separately if Required</b>	306431*	306432*	306433*
EL300B	3306	3FJ 1-Up	10Z16955-Up	Spacer Plated Turbocharged D.I. Engine <b>* Order Aftercooler Gasket Kit Separately if Required</b>	306431*	306432*	306433*
345B	3176C	2NW1-Up 2SW1-Up 2ZW1-Up 3MW1-Up 4SS1-Up 5WS1-Up 6XS1-Up 7KS1-Up 9GS1-Up AKJ1-Up AKX1-Up ALB1-Up ALD1-Up ANJ1-Up BFG1-Up APG1-Up DCW1-Up DET1-Up FEE1-Up CCC1-Up CDJ1-Up	7ZR1-Up	Straight Style Head Gasket	176001STRNLS	176002STRNLS	176003STR
345B	3176C	2NW1-Up 2SW1-Up 2ZW1-Up 3MW1-Up 4SS1-Up 5WS1-Up 6XS1-Up 7KS1-Up 9GS1-Up AKJ1-Up AKX1-Up ALB1-Up ALD1-Up ANJ1-Up BFG1-Up APG1-Up DCW1-Up DET1-Up FEE1-Up CCC1-Up CDJ1-Up	7ZR1-Up	Scalloped Style Head Gasket	176001SCLNLS	176002SCLNLS	176003SCL
345D	C13	EEH1-UP RAJ1-UP	MHX1-UP	(Wet) Double Lip Rear Seal With MLS (Multiple Layer Steel) Head Gasket	C13091NLS	C13092NLS	C13093
345D	C13	EEH1-UP RAJ1-UP	MHX1-UP	(Wet) Double Lip Rear Seal With CP (Composite) Head Gasket	C13091CPNLS	C13092CPNLS	C13093CP
<b>BACKHOE LOADER</b>							
446	3114	6XF1-Up	2FG1-Up	Dry Rear Housing	114021	114012	114013
446B	3114	5BL1-Up	97Z1-Up 2FG1-Up	Dry Rear Housing	114021	114012	114013
446B	3114	5BL1-2499	4RR1-Up	Dry Rear Housing	114021	114012	114013
446D	3114	DBL1-Up	2FG1-Up	Dry Rear Housing	114021	114012	114013
<b>SKIDDERS</b>							
518	3304	50S1-956 55U1-151		Non Spacer Plated Turbocharged P.C. Engine	304021	304022	304023
518	3304		78P1-47087	Non Spacer Plated Turbocharged P.C. Engine	304041	304042	304043
518	3304		78P47088-Up	Spacer Plated Turbocharged P.C. Engine	304071	304072	304073
518 518C	3304	94U192499 95U1-3199	7Z 1-22263	Spacer Plated Turbocharged D.I. Engine	304081	304082	304083
518 518C	3304	94U2500-Up 95U3200-Up 1CL1-Up 9HJ1-Up	7Z22264-Up 7Z22264-Up 7Z28000-Up 7Z28000-Up	Spacer Plated Turbocharged D.I. Engine	304111	304082	304083
525	3304	1DN 1-Up	7Z1-Up		304081	304082	304083

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

APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation)			ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
613C	3116 Front Engine	93X2780-Up	98Z1-Up		116021		116023
613C	3116 Front Engine	8LJ1-Up 9FM1-Up	4TF1-Up		116021		116023
615	3306 Front Engine	46Z 1-Up	8Z1-Up		306421*	306062*	306063*
<b>* Order Aftercooler Gasket Kit Separately if Required</b>							
615C	3306 Front Engine	5TF1-Up 9XG1-Up 2XG1-Up	8Z1-Up 6NC1-Up		306421*	306062*	306063*
<b>* Order Aftercooler Gasket Kit Separately if Required</b>							
621B	3406 Front Engine	45P 1-Up	70V3145-Up	Spacer Plated Turbocharged Engine	406161	406162	406163
621E	3406 Front Engine	6AB1-Up 2PD1-Up	70V22151-Up 11N1-7399	Spacer Plated Turbocharged Engine <b>W/19 Bolt Flywheel Housing</b> Fuel Pump Installation Set	406251	406252	406253 406039
621F	3406 Front Engine	4SK1-Up 8P11-Up	11N7400-Up 41Z469-Up	Spacer Plated Turbocharged Engine <b>W/24 Bolt Flywheel Housing</b> Fuel Pump Installation Set	406351	406352	406353 406039
621G	3406E	ALP1-Up CEN1-Up	BET1-Up	Spacer Plated Turbocharged Engine	406321	406322	406323
623B	3406 Front Engine	46P 1-Up	70V3145-Up	Spacer Plated Turbocharged Engine	406161	406162	406163
623E	3406 Front Engine	6CB1-Up 6YF1-Up 7CG1-Up	70V22151-Up 11N1-Up	Spacer Plated Turbocharged Engine <b>W/19 Bolt Flywheel Housing</b> Fuel Pump Installation Set	406251	406252	406253 406039
623F	3406 Front Engine	6BK 1-Up	11N7400-Up 41Z504-Up	Spacer Plated Turbocharged Engine <b>W/24 Bolt Flywheel Housing</b> Fuel Pump Installation Set	406351	406352	406353 406039
623G	3406E	ARW1-Up CES1-Up	BET1-Up	Spacer Plated Turbocharged Engines	406361	406362	406363
627	3306 Front Engine	54K1-842 68M1-789		Non Spacer Plated Turbocharged P.C.	306131*	306132*	306133*
	3306 Rear Engine	50K1-Up 69M1-789		Non Spacer Plated Turbocharged P.C. <b>* Order Aftercooler Gasket Kit Separately if Required</b>	306131*	306132*	306133*
627 627B	3306 Front Engine	14S1-Up 15S1-Up	3N1-79762	Non Spacer Plated Turbocharged P.C.	306141	306142*	306143*
	3306 Rear Engine	37V1-Up 38V1-Up	3N1-79762	Non Spacer Plated Turbocharged P.C. <b>* Order Aftercooler Gasket Kit Separately if Required</b>	306141	306142*	306143*

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



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

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

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

APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation)			ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
775F	C27	DLS1-Up EYG1-Up	LJX1-Up		C27011NLS	C27012NLS	C27013
776	D348	14H1-Up	98S1-Up	Both Filter Groups Head gasket Not Included Cyl Block Repair Shim Set	348011WOHGNLS		348099
776B	3508	6JC1-Up	99W1-Up	Single Head Replacement Set	508011		508013 508014
776C	3508	2TK1-Up	7YG1-Up	Single Head Replacement Set DOES NOT INCLUDE 6V6640 GASKET MAKER FOR REAR COVER	508021		508023 508024
776D	3508B	5ER1-Up	2GR1-Up	EUI Engine Non-ceramic Exhaust Manifolds Single Head Replacement Set	508121		508123 508124
777	D348	84A1-Up	98S1-2685	Both Filter Groups Head gasket Not Included Single Head Replacement Set Head Gskt Not Included Cyl Block Repair Shim Set	348011WOHGNLS		348014WOHG 348099
777	D348	84A1-Up	98S2686-Up	Single Head Replacement Set Head Gskt Not Included			348024WOHG
777B	3508	4YC1-Up	99W1-Up	Single Head Replacement Set	508011		508013 508014
777B	3508	3NF1-Up	99W1-Up			In Development	
777C	3508	4XJ 1-Up	7YG1-Up	Single Head Replacement Set DOES NOT INCLUDE 6V6640 GASKET MAKER FOR REAR COVER	508021		508023 508024
777D	3508B	3PR 1-Up	2GR1-Up	EUI Engine Non-ceramic Exhaust Manifolds Single Head Replacement Set	508121		508123 508124
777G	C32	RDR1-UP TNM1-Up	FHS1-UP		C32051NLS	C32052NLS	C32053
777G	C32	TNM1-Up	FZS1-UP		C32051NLS	C32052NLS	C32053
777F	C32	JRP1-UP JXP1-UP	LJW1-UP		C32041NLS	C32042NLS	C32043
784B	3512	5RK 1-Up	4WJ1-Up	Single Head Replacement Set	512051		512053 508024
785	3512	8GB 1-Up	96Z1-Up		512051		512053
785B	3512	6HK 1-Up	4WJ1-Up		512051		512053
785C	3512	1HW 1-Up	8BR 1-Up		512061		512063
785D	3512	DMC 1-Up M4J 1-Up MSY 1-Up	B7F 1-Up		512081NLS		512083
789	3516	9ZC 1-Up	54Z1-Up	Single Head Replacement Set	516051		516053 508024
789B	3516	7EK 1-Up	2PK1-Up	Single Head Replacement Set	516051		516053 508024
789C	3516B	2BW1-UP	8WM1-UP		516181NLS		516183
793	3516	3SJ1-Up	54Z1-Up			In Development	
793B	3516	1HC1-Up	2PK1-Up			In Development	
793C	3516B	4AR1-Up 4GZ1-Up	7TR1-Up	EUI Engine Ceramic Exhaust Manifolds Single Head Replacement Set	516171		516173 516174
793C	3516B	ATY1-UP CBR1-UP	8WM1-UP		516181NLS		516183
793D	3516B	FDB1-UP	8WM1-UP		516181NLS		516183

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

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

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

APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation)			ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
966C	3306	30K1-1624 76J1-6388 42J1-3565		Non Spacer Plated Turbocharged P.C. Engine	306221	306222	306223
966C	3306	76J6389-Up 42J3566-Up	3N1-79762	Non Spacer Plated Turbocharged P.C. Engine	306231	306232	306233
966C 966D	3306		3N79763-Up 44V22485-Up	Spacer Plated Turbocharged P.C. Engine	306241	306242	306243
966C	3306		8TD1-Up	Spacer Plated Turbocharged D.I. Engine <b>* Order Aftercooler Gasket Kit Separately if Required</b>	306251	306252	306253
966D	3306	35S1-2522 94X1-6488 99Y1-5314	8Z1-Up 10Z1-Up 13Z1-Up	Spacer Plated Turbocharged D.I. Engine <b>* Order Aftercooler Gasket Kit Separately if Required</b>	306251	306252	306253
966E	3306	35S2523-Up 94X6489-Up 99Y5315-Up	8Z1-Up 10Z1-Up 13Z1-Up	Spacer Plated Turbocharged D.I. Engine <b>* Order Aftercooler Gasket Kit Separately if Required</b>	306251	306252	306253
966F	3306	1SL1-Up 3XJ1-Up 4YG1-Up 8BG1-Up 9YJ1-Up	8Z1-Up 10Z1-Up 13Z1-Up 6NC1-Up	Spacer Plated Turbocharged D.I. Engine <b>* Order Aftercooler Gasket Kit Separately if Required</b>	306251	306252	306253
966G	3306	3PW 1-Up 9RS 1-Up	13Z1-Up	Spacer Plated Turbocharged D.I. Engine	306251	306252	306253
966G	3176C	AWY1-Up AXJ1-Up AWZ1-Up AXL1-Up ANT1-Up ANZ1-Up	3PD1-Up	Straight Style Head Gasket	176031STRNLS	176032STRNLS	176033STR
970F	3306	7PL1-Up 7SK1-Up 9JK1-Up	8Z1-Up 10Z1-Up 13Z1-Up	<b>* Order Aftercooler Gasket Kit Separately if Required</b>	306251	306252	306253
972G	3306	1EW 1-Up 6AW 1-Up	13Z 1-Up	<b>* Order Aftercooler Gasket Kit Separately if Required</b>	306251	306252	306253
972H	C13	MHX 1-Up	A7D1-Up A7G1-Up A7J1-Up LCC1-Up	WITH MLS (MULTIPLE LAYER STEEL) HEAD GASKET	C13081NLS	C13082NLS	C13083
972H	C13	MHX 1-Up	A7D1-Up A7G1-Up A7J1-Up LCC1-Up	WITH COMPOSITE HEAD GASKET	C13081CPNLS	C13082CPNLS	C13083CP
980B	3306	89P1-2167		Non Spacer Plated Turbocharged P.C. Engine <b>* Order Aftercooler Gasket Kit Separately if Required</b>	306131	306132	306133



APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation)			ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
980B	3306		3N1-79762	Non Spacer Plated Turbocharged P.C. Engine	306171	306172	306173
				Converted to Spacer Plated Turbocharged P.C. Engine <b>* Order Aftercooler Gasket Kit Separately if Required</b>	306181	306182	306183
980C	3406	63X1-Up 2XD1-Up 13B300-Up	70V4683-Up 11N1-1475 81Y1-Up	Spacer Plated Turbocharged Non Aftercooled Engine <b>W/19 Bolt Flywheel Housing</b>	406011	406012	406013
				Fuel Pump Installation Set			406039
980C	3406	63X 6575-Up	11N1476-Up	Spacer Plated Turbocharged Non Aftercooled Engine <b>W/24 Bolt Flywheel Housing</b>	406331	406332	406333
				Fuel Pump Installation Set			406039
980F	3406	3HK-Up 8CJ1-Up 8JN1-Up 5XJ1-Up	11N1-Up	Spacer Plated Turbocharged Non Aftercooled Engine <b>W/19 Bolt Flywheel Housing</b>	406231	406232	406233
				Fuel Pump Installation Set			406039
980F	3406	3HK-Up 8CJ1-Up 8JN1-Up 4RN1-Up	11N1-Up	Spacer Plated Turbocharged Non Aftercooled Engine <b>W/24 Bolt Flywheel Housing</b>	406331	406332	406333
				Fuel Pump Installation Set			406039
980G	3406	2KR1-Up 9CM1-Up 2SR1-Up	41Z1-Up	Spacer Plated Turbocharged Aftercooled Engine <b>W/24 Bolt Flywheel Housing</b>	406331	406332	406333
				Fuel Pump Installation Set			406039
980G	3406E	AWH1-Up AXG1-Up	BET1-Up	Spacer Plated Turbocharged Engines	406381	406382	406383
988	D343	87A 3093-Up		Spacer Plated Turbocharged P.C. Engine <b>* Note: Rear Crankshaft Seal NOT included</b>	343041*		343043
				Fuel System Rebuild Set			343059
988B	3408	50W 1-Up	48W950-Up		408061	408062	408063
988F	3408	8YG	48W35039-Up	Turbocharged D.I. Engine	408161	408162	408163
988F	3408E	2ZR 1-Up	99C1-Up	<b>HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included</b>	408361		408363
988H		BXY1-Up	RHX1-Up		C18011NLS	C18012NLS	C18013
990	C27	BWX1-Up	EHX2416-Up		C27041NLS	C27042NLS	C27043
990	3412	4FR1-Up	80M1-Up	Single Head Replacement Set	412351		412373
				<b>HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included</b>			412374
990B	3412	7HK	73W			In Development	
990D	3412	BCR1-Up	5JJ4562-Up	DOES NOT INCLUDE 8 OF 1007401 EXHAUST SEGMENT SEAL AFTERCOOLER GASKETS NOT INCLU	412021NLS	412022NLS	412023
992	D348	25K1-1169		Single Head Replacement Set Head Gskt Not Included			348014WOHG
				Cyl Block Repair Shim Set			348099

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

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

\* Order Aftercooler Gasket Kit Separately if Required

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

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

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

# IPD RETURN POLICY

## GENERAL POLICIES

**Original packing slip or Invoice number on which products were purchased must accompany ALL returns.** Products sent without packing slip or invoice number will be held for a period of 30 days and disposed of.

**IPD claims no obligation to accept return products without prior written authorization from IPD.** All return requests must be submitted in advance to your IPD Distribution Center for approval. Products sent without prior authorization from IPD will be held for a period of 30 days and disposed of.

**All returns are to be sent to IPD freight pre-paid after return approval by IPD.** If sent in collect, freight amount will be charged to customer.

**IPD claims no obligation to accept for credit obsolete products or part numbers.**

**Products will not be considered for credit after 2 years from purchase date.**

**Gasket sets in opened packages or that have been opened or re-taped will not be considered for any credit.**

**Gasket sets over one year old from date of purchase, will not be considered for any credit.** Individual gaskets or o-rings out of gasket sets are non-returnable.

**Products returned in dirty, damaged or otherwise un-saleable packaging will be subject to a 15% re-package fee.**

## IPD ITEMS RETURNED WITHIN 30 DAYS:

May be returned to IPD with a copy of IPD packing slip or invoice number included.

Parts must be returned freight pre-paid and will be credited at purchase price with no handling fee unless product needs repackaging. A 15% re-package fee will then apply. Parts that have been assembled or used are not returnable. Products damaged or dirty will not be credited. As with all returns request must be sent in advance to IPD for approval to return.

## IPD ITEMS RETURNED AFTER 30 DAYS:

All returns after 30 days are subject to a 15% handling charge. Products in need of re-packaging will be subject to an additional 15% handling charge. Parts that have been assembled or used are not returnable. Products damaged or dirty will not be credited. As with all returns request must be sent in advance to IPD for approval to return.

## DISTRIBUTOR'S INITIAL STOCK ORDER:

All items purchased on an initial inventory (stock) order by a new IPD Distributor are protected for a period not to exceed 1 (one) year from date of order without a handling charge. Items purchased only on this initial order may be returned freight pre-paid with copy of packing slip or invoice number to IPD with no handling charge if accompanied with an offsetting order of equal or higher value. Any items needing re-packaging are subject to a 15% re-package fee. Parts that have been assembled or used are not returnable. Products damaged or dirty will not be credited. As with all returns request must be sent in advance to IPD for approval to return. This is a one-time return.

## COMPONENTS FROM KITS

Kit components, such as pistons purchased in cylinder kits are returnable only for trade for like product and subject to a 15% handling charge. Component part will be credited at normal price, 15% handling charge deducted and like product will be sent to customer at normal price for replacement. Customer is responsible for all freight charges. Parts that have been assembled or used are not returnable. Products damaged or dirty will not be credited. As with all returns request must be sent in advance to IPD for approval to return.

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## IPD ENGINE MODEL SUMMARY

### CATERPILLAR<sup>®</sup>

C7, C9, C10, C12, C15, C18, C27, C32

3508 / 3512 / 3516 / 3520 / 3524

3406 / 3408 / 3412

3406 / 3408 / 3412

3304 / 3306 / D333

3204 / 3208

3114 / 3116 / 3126

3064 / 3066

333 / 339 / 342 / 343 / 346 / 348 / 353 / 379 / 398 / 399

### CUMMINS<sup>®</sup>

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### DETROIT DIESEL<sup>®</sup>

60 Series

### VOLVO<sup>®</sup>

D12 Series

### WAUKESHA<sup>®</sup>

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