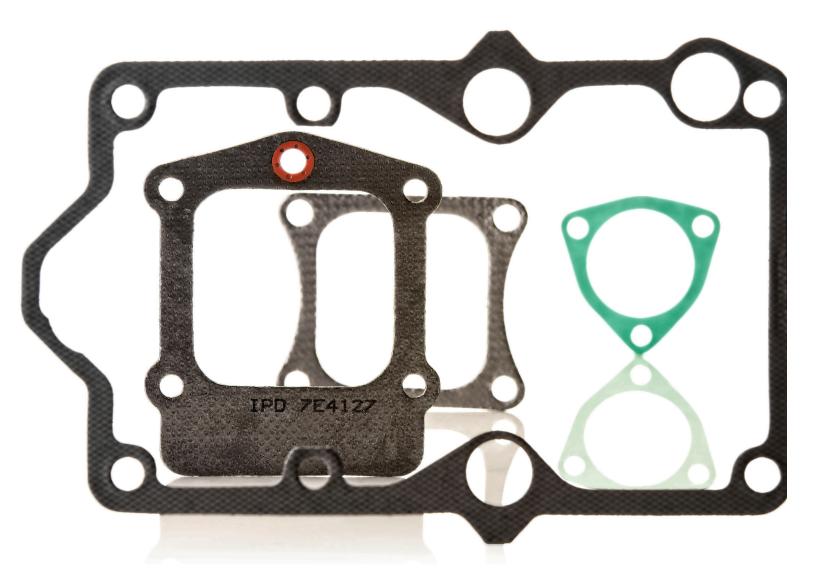


IPDSTYLE 1-2-3[™] GASKET SETS



IPD HEAVY-DUTY GASKETS

IPD QUALITY, INNOVATION, SERVICE & SUPPORT

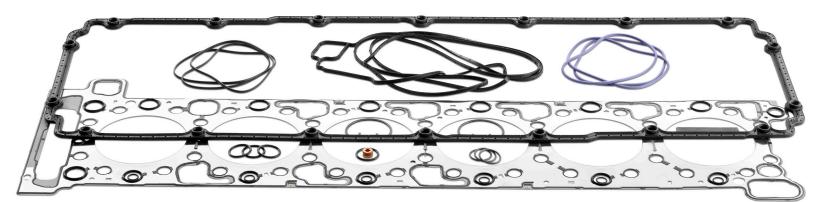
- · Heavy-duty, performance tested materials
- · Engineered to meet or exceed OEM performance levels
 - Latest technology for enhanced reliability, longevity, performance
- Specialty composite & multi-layer steel head gaskets
- · Gaskets engineered for use with other IPD components
- · Premium quality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

IPD VALUE

- OEM style & comprehensive IPDStyle 1-2-3[®] gasket sets for In-Frame, Out-of-Frame, & Cylinder Head overhauls
- IPD's innovative 1-2-3 Sets save time
 - Bagged & marked sub-assemblies for each engine system
 - Complete listing provided of all set contents (by part number)
 - Replaces multiple OEM style sets (often 9 or more)
- Wide range of applications
- · Industry leading limited warranty
 - <u>2 years (unlimited miles/hours)</u> 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 •







	N INFORMATION nd Engine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
ON HIGHWAY TRUCK ENG	GINES					
1693		65B1-781	Non Spacer Plated * Contains 5S3903 Silicone Lip Rear Crankshaft Seal Only	693011*	693012	693013
1693		65B782-Up	Spacer Plated * Contains 5S3903 Silicone Lip Rear Crankshaft Seal Only	693021*	693022	693023
1140 1145 1150 1160		36B1-UP 95B1-UP 96B1-UP 97B1-UP	All Engines		208012	208013
			Single Head Replacement			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 9YN1-Up	ATAAC (Air to Air Aftercooled)	116031	116012	116013
3208NA		32Y1-Up 40S1-Up 51Z1-Up	Non Turbocharged Engine	208011	208012	208013
		·	Single Head Replacement			208014
3208T		2Z1-Up	Turbocharged Engine	208031	208032	208033
3126	Truck	1WM1-26507 4ES1-Up	Single Head Replacement 2 valves per cylinder	3126011	3126012	208034 3126013
3126	Truck	6PZ1-Up 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	With oil pan gasket & dry rear seal	3126091	3126092	
3306		HEP1-Up	With oil pan isolation seal & dry rear seal Non Spacer Plated Engine	<u>3126111</u> 306051	3126112 306052*	<u>3126113</u> 306053*
3306		76R273-Up	* Order Aftercooler Gasket Kit Separately if Required P.C. Turbocharged * Order Aftercooler Gasket Kit Separately if Required	306081	306082*	306083*
3306B		63Z1-Up 5KD1-Up	Directed Injected Turbocharged JWAC * Order Aftercooler Gasket Kit Separately if Required	306091	306092*	306093*
3306B		63Z1-Up 5KD1-Up	Directed Injected Turbocharged ATAAC	306441	306442	306443
3306C		7RJ1-Up 9TL1-Up	D.I. Turbocharged	306441	306442	306443
3406A		92U1-5943	W / Lube Thru Cyl Head Studs	406041	406042	406043
3406A		92U5944-Up		406031	406032	406033

APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
3406B	7FB1-Up 4MG1-Up	JWAC (Jacket Water Aftercooled)	406051	406052	406053
3406B	3ZJ1-16181				
	4MG1-Up				
	5KJ17799	ATAAC (Air to Air Aftercooled)	406061	406062	406063
	7FB1-Up				
	8C1-Up				
3406C	3ZJ16182-60112	ATAAC (Air to Air Aftercooled)			
	4CK846-Up	W/19 Bolt Flywheel Housing	406111	406112	406113
	5KJ7800-Up	W/ 19 Boil Flywheel Housing			
3406C		ATAAC (Air to Air Aftercooled)			
	3ZJ60113 -Up	Non-Brake Saver	406271	406272	406273
		W/Round Exhaust Ports			
3406C		ATAAC (Air to Air Aftercooled)			
	8PN1-Up	Non-Brake Saver	406271	406272	406273
		W/Round Exhaust Ports			
3406E	5EK1-Up				
	6TS1-Up		100101	100100	100100
	1LW1-Up	Includes Fuel Injector Seal	406461	406462	406463
	5DS1-Up				
3406E	2WS1-Up 1MM1-Up	Includes Fuel Injector Seal		406472NLS	406473
C7	WAX 1-Up	Includes I del Injector Sear		400472NL3	400473
61	SAP 1-Up	With Oil Pan Isolation Seal (1662905)	C70001	C70002	C70003
	KAL 1-Up	With Oil Fall Isolation Seal (1002303)	070001	070002	070003
C7	WAX 1-Up				
••	SAP 1-Up	With Oil Pan Gakset (2613816)	C70011	C70012	C70003
	KAL 1-Up		010011	010012	0.0000
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	Scalloped Style Head Gasket	C10001SCLNLS	C10002SCLNLS	C10003SCL
	3CS1-Up				
C10	2PN1-Up				
	8YS1-Up	Straight Style Head Gasket	C10001STRNLS	C10002STRNLS	C10003STR
	3CS1-Up				
C-12	9NS1-Up	Scalloped Style Head Gasket		C12002SCLNLS	C12003SCL
C-12	9NS1-Up	Straight Style Head Gasket		C12002STRNLS	C12003STR
<u>C-12</u>	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 INFORMATIO (Vehicle, Serial #, and Engine Desi		REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
C-12	1YN1-Up	Scalloped Style Head Gasket	•	C12012SCLNLS	C12003SCL
C-12	·	Contains 1260110 Front Seal & 7C1728 (Dry) Single Lip Rear Seal*	C12009		
C-12		Contains 1694166 Front Seal & 7C1728 (Dry) Single Lip Rear Seal*	C12019		
C-12		Contains 1260110 Front Seal & 1005421 (Wet) Double Lip Rear Seal*	C12029		
C-12		Contains 1694166 Front Seal & 1005421 (Wet) Double Lip Rear Seal*	C12039		
	*Use Kit	ts Listed Above W/IPD Style InFrame Gasket Kit To Complete An	Overhaul Set		
C13	JAM1-Up	(Dry) Single Lip Rear Seal (MLS) Multiple Layer Steel) Gasket	C13001NLS	C13002NLS	C13003
C13	JAM1-Up	(Wet)Double Lip Rear Seal (MLS) Multiple Layer Steel) Gasket	C13011NLS	C13002NLS	C13003
C13	KCB1-Up	(Wet)Double Lip Rear Seal (MLS) Multiple Layer Steel) Gasket	C13021NLS	C13022NLS	C13023
C13	KCB1-Up	(Dry) Single Lip Rear Seal (MLS) Multiple Layer Steel) Gasket	C13031NLS	C13022NLS	C13023
C13	LEE1-Up	(Dry) Single Lip Rear Seal (MLS) Multiple Layer Steel) Gasket	C13041NLS	C13042NLS	C13043
C13	LEE1-Up	(Wet)Double Lip Rear Seal (MLS) Multiple Layer Steel) Gasket	C13051NLS	C13042NLS	C13043
C-15	6NZ1-Up 9NZ1-Up MBN1-Up	Does Not Include Oil Pan Isolation Seal ,Oil Pan Gasket Fuel Injector O-Rings Included	C15001	C15002	C15003
C-15	MXS1-Up NXS1-Up BXS1-Up	Does Not Include Oil Pan Isolation Seal ,Oil Pan Gasket Fuel Injector O-Rings Included	C15011NLS	C15012NLS	C15013
C-15	EGH1-Up	Does Not Include Oil Pan Isolation Seal ,Oil Pan Gasket Fuel Injector O-Rings Included	C15021	C15022	C15023
C-15	SDP1-Up	Does Not Include Oil Pan Isolation Seal ,Oil Pan Gasket Fuel Injector O-Rings Included	C15041NLS	C15042NLS	C15043
C18	MDP1-Up	Does Not Include Oil Pan Isolation Seal ,Oil Pan Gasket Fuel Injector O-Rings Included	C18041NLS	C18042NLS	
3408	28V1-427			408082	408083
3408	28V428-Up		408091	408092	408093
3406		Brake Saver Lines Kit			406009
B, C, & D					
3406	Non-Plated Pan	Bearing Roll In Kit			406019
3406	Plated Pan	Bearing Roll In Kit			406029
	ebuild Gasket & Seal Kit (Inc. shaft seal, mou				406028
3406 A & B Water Pump Mo	ounting Kit (Includes only gaskets and seals t	to mount pump)			406018
3406 Fuel Pump Mou A, B, & C	inting Set (Includes only gaskets and seals to	mount pump)			406039

	TON INFORMATION , and Engine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
INDUSTRIAL AND MAR				OVERNAUE		
3114	Industrial Generator	1ZG1-Up 5EF1-Up 5JG1-Up 6AF1-Up		114021	114012	114013
3116	Industrial Generator	1NJ1-Up 2MR1-Up 2SG1-Up 2WG1-Up 4PG1-Up		116031		116023
3116	Marine	1SK1-Up 4KG107-Up		116041		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	65P1-Up 96M1-Up	Non Turbocharged Engine		208012	208013
3160		67P1-Up 981-Up				000011
2004		7504 11-	Single Head Replacement Set			208014
3204	Industrial	7EB1-Up 2TB1-Up	Non Turbocharged Spacer Plated	204071	204072	204073
3208NA	Industrial Generator	29A225-Up 90N1-Up	Non Turbocharged Engine Single Head Replacement Set	208011	208012	208013 208014
3208T	Industrial Generator	30A210-Up 3Z1-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	208051		208053
2000 T			Single Head Replacement Set Turbocharged			208054
3208T	Marine	1Z1-Up	With Fabric and Steel Exhaust Manifold Gaskets Single Head Replacement Set	208071*		208073*
			* If Aftercooler Gaskets Are Needed, Order 9X8569 Gasket Se	ł		200074
3304	Industrial Generator	2B4364-11013 4B455-17153	Non Spacer Plated Turbocharged	304171*	304172*	304173*
			* If Expansion Tank Gaskets Are Needed, Order 6V0621 Gasket	Set		
3304	Industrial Generator	5B1387-2099	Non Spacer Plated Turbocharged		304172*	304173*
3304	Industrial Generator	2B11014-Up 4B17154-Up	Spacer Plated Turbocharged	304141*	304142*	304143*
3304		10E1-Up	* If Expansion Tank Gaskets Are Needed, Order 6V0621 Gasket	361		
0007	Industrial Generator	1PS1-Up 3TC1-Up 6YB1-Up 83Z1-Up	Spacer Plated Turbocharged	304161*	304162*	304163*
			* If Expansion Tank Gaskets Are Needed, Order 6V0621 Gasket	Set		

	ON INFORMATION and Engine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
(333C 4.75" Bore)	Industrial	66D1-Up	Non Spacer Plated Turbocharged or Non-Turbocharged P.C. Engines * Order Aftercooler Gasket Kit Separately if Required * If Expansion Tank Gaskets Are Needed, Order 6V0621 Gasket \$	306391*		
3306	Industrial	66D1-Up	Spacer Plated Turbocharged or Non-Turbocharged P.C. Engines * Order Aftercooler Gasket Kit Separately if Required * If Expansion Tank Gaskets Are Needed, Order 6V0621 Gasket \$	306371 Set	306372*	306373*
3306B	Industrial	1CZ1-Up 5JC1-Up 6PK1-Up 64Z1-Up 7JB1-Up 8JJ1-Up 85Z1-Up	Turbocharged Spacer Plated	306381	306382*	306383*
3306	Marine	67D1-2863	* Order Aftercooler Gasket Kit Separately if Required * If Expansion Tank Gaskets Are Needed, Order 6V0621 Gasket S Turbocharged	Set	306312	306313
3306	Marine	67D2864-Up	Non Spacer Plated <u>* Order Aftercooler Gasket Kit Separately if Required</u> Turbocharged Spacer Plated	306321	306322	306323
3306B	Marine	84Z1-Up	* Order Aftercooler Gasket Kit Separately if Required Turbocharged Spacer Plated	306331	306332	306333
C7	Industrial	JRA1-Up	* Order Aftercooler Gasket Kit Separately if Required	C70111	C70112	C70113
C7	Industrial	JTF1-Up	Single Lip Rear Seal & Dry Exhaust Manifolds	C70121	C70112	C70123
<u>C9</u>	Industrial	MBD1-Up		C90071NLS	C90072NLS	C90073
C9	Industrial	JSC1-Up		C90081NLS	C90082NLS	C90083
C9	Industrial	CLJ1-Up		C90111NLS	C90112NLS	C90113
C12	Industrial	BDL1-Up	Straight Stlye Head Gasket 1095308 Isolation Seal Not Included* *See Truck Kits For Overhaul Kit Information	CONTINUED	C12042STRNLS	C12003STR
C13	Industrial	LGK1-Up PDN1-Up PFW1-Up RRA1-Up	(Dry) Single Lip Rear Seal With MLS (Multiple Layer Steel) Head Gasket	C13061NLS	C13062NLS	C13063
C13	Generator	PWE1-Up		C13111NLS	C13112NLS	C13113
3406A	Industrial	90U2159-Up 75Z1-Up	* If Aftercooler Gaskets Are Needed for 75Z, Order 1909861 Gaske	406121 t Set	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

(Vehicle, Seria	ATION INFORMATION I #, and Engine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
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
3406C	Industrial Generator	3ER1-Up 1SS1-Up	Note: Rear Housing liquid gasket maker is Not included W/24 Bolt Flywheel Housing	406151	406082	406083
3406A	Marine	91U1-484		406141		
3406A	Marine	91U721-Up		406131	406132	406133
3406B	Marine	4TB1-3481	Fuel Pump Installation Set	406081	406082	406083 406039
3406C	Marine	4TB3482-Up	W/19 Bolt Flywheel Housing	406081	406082	406083
			Fuel Pump Installation Set			406039
3406E	Gen Set	1MZ1-Up 8AZ1-Up	Spacer Plate Turbocharged Engine	406281	406282	406283
3406E	Industrial	9NN1-Up	Spacer Plate Turbocharged Engine	406291	406292	406293
3406E	Industrial	6BR1-Up	Spacer Plate Turbocharged Engine	406301	406302	406303
3406E	Marine	9WR1-Up	Spacer Plate Turbocharged Engine	406421	406422	406423
3406	Generator	2GG1-Up		406481NLS	406482NLS	406483
C15	Industrial	JRE1-Up	DOES NOT INCLUDE OIL PAN ISOLATION SEAL INJECTOR SEALS INCLUDED	C15031NLS	C15032NLS	C15033
C15	Industrial	BEM 1-UP	Injector Seals Included	C15061NLS	C15062NLS	C15063
C15	Generator	FFH1-Up	Injector Seals Included	C15081NLS	C15082NLS	C15083
C15	Generator	FSE1-Up	Injector Seals Included	C15101NLS	C15102NLS	C15103
3408	Industrial	67U1335-Up		408051	408052	408053
3408 3408	Marine Marine	99U1-584 99U585-4588		408031 408041	408032 408042	408033 408043
3408	Industrial	78Z1-Up	Single Head Replacement Set	408051	408052*	408044 408053*
			If Aftercooler Gaskets Are Needed, Order 1247567 Gasket Set. If Expansion Tank Gasket Are Needed, Order 6V0237 Gasket Se			
3408B 3408C	Marine	99U4589-Up 1TS1-Up	1TS With 19 Bolt Flywheel Housing.	408041	408042	408043
0.110		0004 40400	Single Head Replacement Set			408044
3412	Industrail Generator	38S1-16483 81Z1-14500	19 BOLT FLYWHEEL HOUSING	412011	412012	412013
3412C	Industrail	38S16484-Up	Single Head Replacement Set			412034
34120	Generator	81Z14501-UP	19 BOLT FLYWHEEL HOUSING	412011	412012	412013
3412C	Industrail	2WJ1-Up	Single Head Replacement Set			412034
34120	Generator	1EZ1-Up	With sequential Turbos (4 Turbos)	412011	412012	412013
			Single Head Replacement Set Supplementary Turbo Gasket Set			<u>412034</u> 412015
3412	Marine	60M1-Up 9BR1-Up	Supplementary Turbo Gasket Set	412031	412032	412013
		30111-0P	Single Head Replacement Set			412034
3412E	Industrial	4CR1-Up	Spacer Plated Turbocharged Engine	412121	412122	412123
3412E	Marine	9KS 1-Up	Spacer Plated Turbocharged Engine	412131	412132	412133
3412E	Marine	9PW1-Up	Spacer Plated Turbocharged Engine	412141	412142	412143
3412E	Industrial	BDT1-Up		412171NLS	412172NLS	412173

	PLICATION INFORMATION Serial #, and Engine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
C18	Generator	X6W1-Up	Includes Fuel Injector Seals	C18031	C18032	C18033
C18	Industrial	EJG1-Up	Does Not Includes OII Pan Isolation Seal, Oil Pan gasket Fuel Injector O-Rings Included	C18061	C18062	
C18	Industrial	WJH1-Up	Includes Fuel Injector Seal	C18071	C18072	C18073
C18		EFE1-Up	······································			
	Generator	EST1-Up PDH1-Up STH1-Up	Does Not Include Oil Pan Isolation Seal, Oil Pan gasket Fuel Injector O-Rings Included	C18081NLS	C18082NLS	C18083
C18	Marine	CYN1-Up	Injector Seals Included	C18051NLS	C18052NLS	C18053
C18	Marine	CKH1-Up	Does Not Include Oil Pan Isolation Seal, Oil Pan gasket Fuel Injector O-Rings Included	C18131NLS	C18132NLS	C18133
C18	Generator	CYG1-Up MGS1-Up	Injector Seals Included	C18141NLS	C18142NLS	C18143
C18	Industrial	BDN1-Up	Includes Fuel Injector Seal	C18151NLS	C15152NLS	C18153
C18	Marine	T2P1-Up	•	C18171NLS	C18172NLS	C18173
C27	MJE1-Up Generator	DWB1-Up	Includes Fuel Injector Seals	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
		68Z1-UP 95Y1-Up	With Dry Exhaust Manifolds	508051		508053
3508	Industrial	0011 Op	Single Head Replacement Set			508054
		68Z1-UP 95Y1-Up	With Wet Exhaust Manifolds	508061		508063
		•	Single Head Replacement Set			508064
		23Z1-Up 70Z1-Up	With Dry Exhaust Manifolds	508051		508053
3508	Generator Set		Single Head Replacement Set			508054
		23Z1-Up 70Z1-Up	With Wet Exhaust Manifolds	508061		508063
			Single Head Replacement Set			508064
3508B	Generator Set	2HW1-Up 4GM1-Up 6PN1-Up	With Dry Exhaust Manifolds (New EUI)			508073
			Single Head Replacement Set			E00074
			Note: The New EUI sets contain a molded rubber seal for the rocker to cannot be interchanged with the older EUI and MUI flat rocker box gar Note: The New IPD 1679527 seals for Dry Ceramic Manifold Segmer not included in any gasket sets but are available individually.	iskets.		508074
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	With Dry Exhaust Manifolds Single Head Replacement Set With Dry Ceramic Exhaust Manifolds (Old EUI)			516124
		7SM1-Up	Single Head Replacement Set With Dry Ceramic Exhaust Manifolds (New EUI)			516164

	TION INFORMATION #, and Engine Designation)	ENGINE SERIAL #		REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SE
			canno	he New EUI sets contain a molded rubber seal for the rocker to be interchanged with the older EUI and MUI flat rocker box of The New IPD 1679527 seals for Dry Ceramic Manifold Segme to the detail of the second second second second se	gaskets. ents are		
3508	Generator	1FZ1-Up		not included in any gasket sets but are available individually.	508081NLS		508083
3508	Locomotive	6TJ1-Up			30000 INES	In Development	300003
3512		49Y1-Up 51Y1-Up 65Z1-Up		With Dry Exhaust Manifolds	512031		512033
				Single Head Replacement Set			508054
	Industrial	49Y1-Up 65Z1-Up		With Wet Exhaust Manifolds Valve Stem Seals Not Included	512041	512042	512043
		0474 Um		Single Head Replacement Set			508064
	24Z1-Up 67Z1-Up		With Dry Exhaust Manifolds	512031		512033	
		24Z1-Up		Single Head Replacement Set With Wet Exhaust Manifolds Valve Stem Seals Not			508054
	Generator Set	67Z1-Up		Included	512041	512042	512043
45405		00044		Single Head Replacement Set	510101		508064
3512B	Generator Set	8RM1-Up		With Dry Ceramic Exhaust Manifolds. (New EUI) Single Head Replacement Set With Dry Ceramic Exhaust Manifolds (New EUI)	512161		512163 516164
3512B		6WN1-Up	canno	he New EUI sets contain a molded rubber seal for the rocker to be interchanged with the older EUI and MUI flat rocker box of The New IPD 1679527 seals for Dry Ceramic Manifold Segme not included in any gasket sets but are available individually.	gaskets. ents are		
Genera	Generator Set	6GW1-Up		With Dry Exhaust Manifolds (New EUI)			512073
			Note [.] T	Single Head Replacement Set he New EUI sets contain a molded rubber seal for the rocker	box and		508074
				t be interchanged with the older EUI and MUI flat rocker box			
3512B	Generator Set	4AW1-Up		With Dry Exhaust Manifolds (New EUI) Single Head Replacement Set	512071NLS		512073 508074
3512	Marine	50Y1-Up 66Z1-Up		With Wet Exhaust Manifolds Valve Stem Seals Not Included	512041	512042	512043
		0021 00		Single Head Replacement Set			508064
				he New EUI sets contain a molded rubber seal for the rocker to be interchanged with the older EUI and MUI flat rocker box of			
3512B	Marine	3WS1-Up 3RS1-Up 4TN1-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
			canno	he New EUI sets contain a molded rubber seal for the rocker to be interchanged with the older EUI and MUI flat rocker box of The New IPD 1679527 seals for Dry Ceramic Manifold Segme not included in any gasket sets but are available individually.	gaskets. ents are		
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
			canno	he New EUI sets contain a molded rubber seal for the rocker of be interchanged with the older EUI and MUI flat rocker box of The New IPD 1679527 seals for Dry Ceramic Manifold Segme not included in any gasket sets but are available individually.	gaskets. ents are		

APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
3512 Generator Set	1KZ1-Up		512091NLS		512093

	TION INFORMATION #, and Engine Designation)	ENGINE SERIAL #		REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
3516	Industrial	27Z1-Up 71Z1-Up		With Dry Exhaust Manifolds	516031		516033
		/121-0p		Single Head Replacement Set			508054
		27Z1-Up 71Z1-Up		With Wet Exhaust Manifolds	516041		516043
		1121 00		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	1NW1-Up 6HN1-Up 7RN1-Up 8NW1-UP		With Dry Exhaust Manifolds (New EUI)			516073
				Single Head Replacement Set he New EUI sets contain a molded rubber seal for the rocker			508074
3516	Generator Set	5SJ1-Up	canno	ot be interchanged with the older EUI and MUI flat rocker box g High-Speed Phase II Engine	jaskets. 516031		
3516	Marine	29Z1-Up		With Wet Exhaust Manifolds	516041		516043
	Marino	72Z1-Up			010011		
3516	Marine	4MJ150-Up		Single Head Replacement Set	516141		508064 516143
				Single Head Replacement Set With Dry Ceramic Exhaust Manifolds (MUI)	0.0		516144
			Note:	The New IPD 1679527 seals for Dry Ceramic Manifold Segme not included in any gasket sets but are available individually.	ents are		
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
				he New EUI sets contain a molded rubber seal for the rocker			
				ot be interchanged with the older EUI and MUI flat rocker box g The New IPD 1679527 seals for Dry Ceramic Manifold Segme not included in any gasket sets but are available individually.			
3516B	Generator Set	ZAP1-Up YAW-Up		Single Cylinder Head Replacement Set	516091NLS		516093 516094
D342	Industrial	31B1-Up		Non Spacer Plated * Rear Crankshaft Seal is NOT Included	342051*	342052	342053
D342	Marine	32B1-2268		Non Spacer Plated * Rear Crankshaft Seal is NOT Included	342061*	342062	342063
D343	Marine	33B1-667		* Rear Crankshaft Seal is NOT Included	343011*		343113

	TION INFORMATION #, and Engine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
D343	Marine	33B668-3027 62B1-Up	Non Spacer Plated	343011*		343013
		0201-00	* Rear Crankshaft Seal is NOT Included			
			Note that above D343's use two different Head Replaceme	nt Sets,		
			parts to do both are included in the Overhaul set			
D343	Marine	33B3028-Up	Spacer Plated * Contains 5S3903 Silicone Lip Rear Crankshaft Seal Onl	343061* y		343063
D343	Industrial	62B6728-Up	Spacer Plated * Rear Crankshaft Seal is NOT Included	343081*		343083
D353	Industrial	46B1-869	Non Spacer Plated	353031	353032	353033
D353	Industrial	46B870-6446 77B1-Up	Non Spacer Plated	353051	353052	353053
D353		46B870-6446				
	Industrial	46B6447-Up Converted Engines	Spacer Plated	353071	353072	353073
D353	Marine	47B1-469	Non Spacer Plated	353031	353032	353033
D353	Marine	47B470-4207	Non Spacer Plated	353061	353062	353063
			Single Head Replacement Set			353064
D353	Marine	47B470-Up Converted Engines	Spacer Plated	353071	353072	353073
D379	Industrial	68B2540-Up		379011	379012	379013
			Incl. special IPD Composite Head Gasket	379011CP	379012CP	379013CP
		Single Head Replacement Set Includes Ferrules			399014	
		Incl. special IPD Composite Head Gasket			399014CP	
		Single Head Replacement Set Includes Ferrules for $\mathrm{H_{2}o}$ Shielded	Manifold		399044	
			Incl. special IPD Composite Head Gasket			399044CP
			Single Head Replacement Set Includes Ferrules for H ₂ O Cooled I	Manifold		399144
			Incl. special IPD Composite Head Gasket			399144CP
D379	Marine	69B1227-Up		379041	379042	379043
			Incl. special IPD Composite Head Gasket	379041CP	379042CP	379043CP
			Single Head Replacement Set Includes Ferrules for ${\rm H_{2}o}$ Shielded	Manifold		399044
			Incl. special IPD Composite Head Gasket			399044CP
			Single Head Replacement Set Includes Ferrules for H ₂ O Cooled I	Manifold		399144
			Incl. special IPD Composite Head Gasket			399144CP
D398	Industrial	66B1-3560 75B1-Up		398011		398013
			Incl. special IPD Composite Head Gasket	398011CP		398013CP
			Single Head Replacement Set Includes Ferrules			399014
			Incl. special IPD Composite Head Gasket			399014CP
			Single Head Replacement Set Includes Ferrules for H_2o Shielded	IVIANITOIO		399044
			Incl. special IPD Composite Head Gasket			399044CP
			Single Head Replacement Set Includes Ferrules for H ₂ O Cooled I	Manifold		399144
5000		00005041	Incl. special IPD Composite Head Gasket	000004	000000	399144CP
D398	Industrial	66B3561-Up	Incl. special IPD Composite Head Gasket	398031 398031CP	398032 398032CP	398023 398023CP
			Single Head Replacement Set Includes Ferrules	3900310P	39003207	398023CP 399014
			Incl. special IPD Composite Head Gasket			399014 399014CP
			Single Head Replacement Set Includes Ferrules for H ₂ o Shielded	Manifold		399014CP 399044
			Incl. special IPD Composite Head Gasket	Marmolu		399044CP
			Single Head Replacement Set Includes Ferrules for H ₂ O Cooled I	Manifold		<u>399044CP</u> 399144
			Incl. special IPD Composite Head Gasket	viai IIIUIU		399144 399144CP

(Vehicle, Serial #, and	INFORMATION d Engine Designation)	ENGINE SERIAL #		REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
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 H_2 o Shielded N	Manifold		399044
				Incl. special IPD Composite Head Gasket			399044CP
			Single	e Head Replacement Set Includes Ferrules for H ₂ O Cooled M	lanifold		399144
				Incl. special IPD Composite Head Gasket			399144CP
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 H ₂ o Shielded N	Manifold		399044
				Incl. special IPD Composite Head Gasket			399044CP
			Single	e Head Replacement Set Includes Ferrules for H ₂ O Cooled M	lanifold		399144
				Incl. special IPD Composite Head Gasket			399144CP
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 H ₂ o Shielded M	Manifold		399044
				Incl. special IPD Composite Head Gasket			399044CP
			Single	e Head Replacement Set Includes Ferrules for H ₂ O Cooled M	lanifold		399144
				Incl. special IPD Composite Head Gasket			399144CP
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 H ₂ O Shielded I	Manifold		399044
				Incl. special IPD Composite Head Gasket	_		399044CP
			Single	e Head Replacement Set Includes Ferrules for H ₂ O Cooled M	lanifold		399144
				Incl. special IPD Composite Head Gasket			399144CP
MISCELLANEOUS SETS			Fre	sh Water Pump Gasket & Seal Set (includes installation gas	kets)		398008
D379 / D398 / D399				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
				Turbocharger Installation Set (To install unit only)			399005
				Aftercooler Installation Set (To install unit only)			399015
FRONT AND REAR CRANKS	HAFT SEALS				(Not included in	n any D379 / D398 / D3	99 IPD Style Gasket Sets)
D379 / D398 / D399		-		Crankshaft Seal Ring			3N9160
	HAFT SEALS-DIRECTIONAL TYPE	<u>-</u>	~	dend Detetion Occurrent Olevins' March E. S. S. S.		Encard O. J	414/2022
D379 / D398 / D399				dard Rotation-Counter Clockwise-Viewing Engine Facing Fly		Front Seal	4W2606
				Opposite Rotation-Clockwise-Viewing Engine Facing Flywhee		Rear Seal	4W2606
				dard Rotation-Counter Clockwise-Viewing Engine Facing Fly		Rear Seal	4W2607
	L TYPE SEAL CONVERSION GRO	UpS		Opposite Rotation-Clockwise Viewing-Engine Facing Flywhee		Front Seal	4W2607
D379 / D398 / D399			Stan	dard Rotation-Counter Clockwise-Viewing Engine Facing Fly	wheel	Front	4W2568
				(Includes: Adapter, Seal, And Mounting Gasket)		Rear	4W2569
			(Opposite Rotation-Clockwise-Viewing Engine Facing Flywhee	el	Front	4W2570
				(Includes: Adapter, Seal, And Mounting Gasket)		Rear	4W2571

	ON INFORMATION and Engine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SE
TURAL GAS ENGINES	S					
G3304	Natural Gas	37Y1-Up N4F1-Up	Non Turbocharged	304151*	304152*	304153*
			* If Equipped W/Long Valve Train, Order	1-8S1606 additionally		
G3304 G3306	Natural Gas	1RG1-Up 7Y291-Up			In Development	
65500	Natural Gas	G6X1-Up	Turbocharged - Spacer F * If Expansion Tank Gaskets Are Needed, C		306342*	306343*
			* If Equipped W/Long Valve Train, Order * Order Aftercooler Gasket Kit Sepa	1-8S1605 additionally		
G3306	Natural Gas	7Y291-Up G6X1-Up	Non Turbocharged Spacer Plated * If Expansion Tank Gaskets Are Needed, C	306351*	306352*	306353*
			* If Equipped W/Long Valve Train, Order 1-8			
G3306	Natural Gas	R6S1-Up	quipped th Long varie fram, order 1-0	306551NLS		306553
G3406		4FD1-Up	1RK1 Non Turbocharged			
	Natural Gas	4-01-ор Up	Spacer Plated 19 Bolt Rear Cover	406221	406222	406223
G3406	Natural Gas	4FD1-Up Up	1RK1- Spacer Plated 19 Bolt Rear Cover	406261		406263
G3406	Natural Gas	1RK1-Up	Turbocharged	406261		
00.400	Lean Burn	nati op	Aftercooled Engine	100201		
G3408	Natural Gas	6NB1-Up	Turbocharged Aftercooled Engine	408261		408263
G3408		3WR1-Up	Antorocolog Eligino			
	Natural Gas	6FW1-Up	Turbocharged Aftercooled	Engine 408261		408263
	Lean Burn	6RJ1-Up	Tubbenarged Attercooled			400205
G3408	Natural Gas	8YR1-Up	Turbocharged Aftercooled	Engine 408271NLS	408272NLS	408273
G3408 G3412	Natural Gas	BAZ 207-Up 7DB1-Up	Non Turbocharged - Non Aft		400272INL3	412093
00412	Natural Cas	7001-0p	Single Head Replacement			412114
G3412	Natural Gas	7DB1-Up	Turbocharged	412111		412113
	Natural Gas	7001-0p	Aftercooled Single Head Replaceme			412114
G3412		5KR1-Up				
	Natural Gas	6ZM1-Up			In Development	
00110		9RR1-Up				
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	0		508033
			Single Head Replacement Set With We			508044EM
			Single Head Replacement Set With Dr Manifolds	,		516114
			Note: The New IPD 1547477 seals for Dry Cera	5		
G3508		4WD1-Up	not included in any gasket sets but are a			
63300	Natural Gas	9TG1-Up	W/ Electronic Ignition System And Wet			508043
			Single Head Replacement Set With We			508044EM
			Single Head Replacement Set With Dr Manifolds	-		516114
			Note: The New IPD 1547477 seals for Dry Cera not included in any gasket sets but are a	mic Manifold Segments are		
G3512	Natural Gas	4KC1-Up	W/ Magneto Ignition System And Wet		512012	512013
						0.20.0

ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET		
Single Head Replacement Set With Dry Ceramic Exhaust						
-						
Note: T	he New IPD 1547477 seals for Dry Ceramic Manifold Segme	nts are				
	not included in any gasket sets but are available individually.					
	SERIAL #	SERIAL # REMARKS Single Head Replacement Set With Dry Ceramic Exhaust Manifolds Note: The New IPD 1547477 seals for Dry Ceramic Manifold Segme	ENGINE REMARKS FRAME SERIAL # VERHAUL Single Head Replacement Set With Dry Ceramic Exhaust	ENGINE SERIAL # REMARKS FRAME OVERHAUL IN FRAME OVERHAUL Single Head Replacement Set With Dry Ceramic Exhaust Manifolds Note: The New IPD 1547477 seals for Dry Ceramic Manifold Segments are IN FRAME		

	FION INFORMATION t, and Engine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SE
G3512	Natural Gas	5JD1-Up 7NJ1-Up	W/ Electronic Ignition System And Wet Exhaust Manifolds	512021	512022	512023
			Single Head Replacement Set With Wet Exhaust Manifolds			508044EM
			Single Head Replacement Set With Dry Ceramic Exhaust Manifolds			516114
		Note: The New IPD 1547477 seals for Dry Ceramic Manifold Segments are not included in any gasket sets but are available individually.				
G3512	Natural Gas	5JD1-Up 7NJ1-Up	W/ Electronic Ignition System And Dry Exhaust ManifoldsLate EIS			512113
			Single Head Replacement Set With Dry Ceramic Exhaust Manifolds			516114
		Ν	lote: The New IPD 1547477 seals for Dry Ceramic Manifold Segmer not included in any gasket sets but are available individually.	nts are		
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	4EK1-Up 8LD1-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
		Ν	lote: The New IPD 1547477 seals for Dry Ceramic Manifold Segmer	nts are		
G3516	Natural Gas	CTL1-Up	not included in any gasket sets but are available individually. 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
		Ν	lote: The New IPD 1547477 seals for Dry Ceramic Manifold Segmer not included in any gasket sets but are available individually.	nts are		
G3516	Natural Gas	CTW1-UP		516131		516133
G3516	Natural Gas	WPW1-Up		516191NLS		516193
G3516 G3516	Natural Gas	ZBA1-Up	ULB (ULTRA LEAN BURN)	516151NLS 516201NLS		516153
	Natural Gas	JEF1-Up	Single Head Replacement Set	510201NL5		516204
G3520	Natural Gas	BGW1-Up CWD1-Up GZP1Up		520001NLS		520003
G3520	Natural Gas	GDB1-UP GZA1-UP		520011NLS		520013
G3520	-	GZA1-UP GZB1-UP JBX202-UP				
	Natural Gas	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 SINGLE CYL HEAD SET	342071	342072	342073 342074
G342	Natural Gas	71B1-Up	Spacer Plated SINGLE CYL HEAD SET	342081		342083 342084
G379	Natural Gas	72B468-Up	Non Turbocharged Incl. special IPD Composite Head Gasket	379021 379021CP	379022 379022CP	379023 379023CP
			Single Head Replacement Set Includes Ferrules	01002101	01002201	399054

	ATION INFORMATION I #, and Engine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
			Incl. special IPD Composite Head Gasket			399054CP
G379	Natural Gas	72B468-Up	Turbocharged Aftercooled Engine	379031	379032	379033
			Incl. special IPD Composite Head Gasket	379031CP	379032CP	379033CP
			Single Head Replacement Set Includes Ferrules			399054
			Incl. special IPD Composite Head Gasket			399054CP

(Vehicle, Seri	CATION INFORMATION al #, and Engine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
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
0000		100201 00	Incl. special IPD Composite Head Gasket	399121CP	399122CP	399123CP
			Single Head Replacement Set Includes Ferrules	00012101	00012201	399054
			Incl. special IPD Composite Head Gasket			399054CP
G399	Natural Gas		Inci: special II D Composite flead Casket			33303401
0335	Applications Only	49C261-Up	Turbocharged Aftercooled Engine	399131	399132	399133
			Incl. special IPD Composite Head Gasket	399131CP	399132CP	399133CP
			Single Head Replacement Set Includes Ferrules			399054
			Incl. special IPD Composite Head Gasket			399054CP
MISCELLANEOUS						
G379 / G398 / G399	9		Set (includes installation gaskets)			398008
		Fresh Water Pump Installation Set				399018
		Raw Water Pump installation Set (399008
		Lube Oil Pump Installation Set (To				399006
		Turbocharger Installation Set (To				399005
		Aftercooler Installation Set (To ins	stall unit only)			399015
RONT AND REAF	R CRANKSHAFT SEALS			(Not included in	i any G379 / G398 / G3	399 IPD Style Gasket Sets)
G379 / G398 / G399	9	Crankshaft Seal Ring				3N9160
RONT AND REAF	R CRANKSHAFT SEALS-DIRECTIONAL	TYPE				
G379 / G398 / G399			vise-Viewing Engine Facing Flywheel		Front Seal	
	9	Standard Rotation-Counter Clocky			From Sear	4W2606
	9					
	9	Opposite Rotation-Clockwise-View	ving Engine Facing Flywheel		Rear Seal	4W2606
	9	Opposite Rotation-Clockwise-View Standard Rotation-Counter Clockw	ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel		Rear Seal Rear Seal	4W2606 4W2607
		Opposite Rotation-Clockwise-View Standard Rotation-Counter Clockw Opposite Rotation-Clockwise-View	ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel		Rear Seal	4W2606
CRANKSHAFT DIF	RECTIONAL TYPE SEAL CONVERSION	Opposite Rotation-Clockwise-View Standard Rotation-Counter Clockw Opposite Rotation-Clockwise-View GROUPS	ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel ving Engine Facing Flywheel		Rear Seal Rear Seal Front Seal	4W2606 4W2607 4W2607
CRANKSHAFT DIF	RECTIONAL TYPE SEAL CONVERSION	Opposite Rotation-Clockwise-View Standard Rotation-Counter Clockw Opposite Rotation-Clockwise-View GROUPS Standard Rotation-Counter Clockw	ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel		Rear Seal Rear Seal Front Seal Front	4W2606 4W2607 4W2607 4W2568
CRANKSHAFT DIF	RECTIONAL TYPE SEAL CONVERSION	Opposite Rotation-Clockwise-View Standard Rotation-Counter Clockw Opposite Rotation-Clockwise-View GROUPS Standard Rotation-Counter Clockw (Includes: Adapter, Seal, And M	ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel Mounting Gasket)		Rear Seal Rear Seal Front Seal Front Rear	4W2606 4W2607 4W2607 4W2568 4W2568
CRANKSHAFT DIF	RECTIONAL TYPE SEAL CONVERSION	Opposite Rotation-Clockwise-View Standard Rotation-Counter Clockw Opposite Rotation-Clockwise-View GROUPS Standard Rotation-Counter Clockw (Includes: Adapter, Seal, And M Opposite Rotation-Clockwise-View	ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel Mounting Gasket) ving Engine Facing Flywheel		Rear Seal Rear Seal Front Seal Front Rear Front	4W2606 4W2607 4W2607 4W2568 4W2569 4W2570
<u>CRANKSHAFT DIF</u> 3379 / G398 / G399	RECTIONAL TYPE SEAL CONVERSION 9	Opposite Rotation-Clockwise-View Standard Rotation-Counter Clockw Opposite Rotation-Clockwise-View GROUPS Standard Rotation-Counter Clockw (Includes: Adapter, Seal, And M	ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel Mounting Gasket) ving Engine Facing Flywheel		Rear Seal Rear Seal Front Seal Front Rear	4W2606 4W2607 4W2607 4W2568 4W2568
CRANKSHAFT DIF G379 / G398 / G399 IRACK TYPE TRA	RECTIONAL TYPE SEAL CONVERSION 9 CTORS	Opposite Rotation-Clockwise-View Standard Rotation-Counter Clockw Opposite Rotation-Clockwise-View GROUPS Standard Rotation-Counter Clockw (Includes: Adapter, Seal, And M Opposite Rotation-Clockwise-View	ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel Mounting Gasket) ving Engine Facing Flywheel		Rear Seal Rear Seal Front Seal Front Rear Front	4W2606 4W2607 4W2607 4W2568 4W2569 4W2570
<u>CRANKSHAFT DIF</u> 3379 / G398 / G399	RECTIONAL TYPE SEAL CONVERSION 9 CTORS 6N1-Up	Opposite Rotation-Clockwise-View Standard Rotation-Counter Clockw Opposite Rotation-Clockwise-View GROUPS Standard Rotation-Counter Clockw (Includes: Adapter, Seal, And M Opposite Rotation-Clockwise-View	ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel Mounting Gasket) ving Engine Facing Flywheel		Rear Seal Rear Seal Front Seal Front Rear Front	4W2606 4W2607 4W2607 4W2568 4W2569 4W2570
CRANKSHAFT DIF G379 / G398 / G399 IRACK TYPE TRA	RECTIONAL TYPE SEAL CONVERSION 9 CETORS 6N1-Up 3204 79U1-Up	Opposite Rotation-Clockwise-View Standard Rotation-Counter Clockw Opposite Rotation-Clockwise-View GROUPS Standard Rotation-Counter Clockw (Includes: Adapter, Seal, And M Opposite Rotation-Clockwise-View (Includes: Adapter, Seal, And M	ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel dounting Gasket) ving Engine Facing Flywheel dounting Gasket)	204011	Rear Seal Rear Seal Front Seal Front Rear Front	4W2606 4W2607 4W2607 4W2568 4W2569 4W2570
CRANKSHAFT DIF G379 / G398 / G399 IRACK TYPE TRA	RECTIONAL TYPE SEAL CONVERSION 9 CTORS 6N1-Up 3204 79U1-Up 82U1-Up	Opposite Rotation-Clockwise-View Standard Rotation-Counter Clockw Opposite Rotation-Clockwise-View GROUPS Standard Rotation-Counter Clockw (Includes: Adapter, Seal, And M Opposite Rotation-Clockwise-View	ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel Mounting Gasket) ving Engine Facing Flywheel	204011	Rear Seal Rear Seal Front Seal Front Rear Front Rear	4W2606 4W2607 4W2607 4W2568 4W2569 4W2570 4W2571
CRANKSHAFT DIF 3379 / G398 / G399 IRACK TYPE TRA D3	CTORS 3204 B CTORS 6N1-Up 79U1-Up 82U1-Up 83U1-Up 83U1-Up	Opposite Rotation-Clockwise-View Standard Rotation-Counter Clockw Opposite Rotation-Clockwise-View GROUPS Standard Rotation-Counter Clockw (Includes: Adapter, Seal, And M Opposite Rotation-Clockwise-View (Includes: Adapter, Seal, And M	ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel dounting Gasket) ving Engine Facing Flywheel dounting Gasket)	204011	Rear Seal Rear Seal Front Seal Front Rear Front Rear	4W2606 4W2607 4W2607 4W2568 4W2569 4W2570 4W2571
CRANKSHAFT DIF G379 / G398 / G399 IRACK TYPE TRA	Sectional Type Seal Conversion 9 CTORS 3204 6N1-Up 82U1-Up 83U1-Up 3204 3204 23Y1-Up	Opposite Rotation-Clockwise-View Standard Rotation-Counter Clockw Opposite Rotation-Clockwise-View GROUPS Standard Rotation-Counter Clockw (Includes: Adapter, Seal, And M Opposite Rotation-Clockwise-View (Includes: Adapter, Seal, And M 45V1-Up	ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel vise-Viewing Engine Facing Flywheel Mounting Gasket) ving Engine Facing Flywheel Mounting Gasket) P.C. And D.I. Non Turbocharged Engine		Rear Seal Rear Seal Front Seal Front Rear Front Rear 204012	4W2606 4W2607 4W2607 4W2568 4W2569 4W2570 4W2571 204013
CRANKSHAFT DIF 5379 / G398 / G399 TRACK TYPE TRA D3 D3B	Sectional type seal conversion 9 CTORS 3204 6N1-Up 83U1-Up 83U1-Up 3204 3204 23Y1-Up 23Y1-Up	Opposite Rotation-Clockwise-View Standard Rotation-Counter Clockw Opposite Rotation-Clockwise-View GROUPS Standard Rotation-Counter Clockw (Includes: Adapter, Seal, And M Opposite Rotation-Clockwise-View (Includes: Adapter, Seal, And M	ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel dounting Gasket) ving Engine Facing Flywheel dounting Gasket)	204011 204011	Rear Seal Rear Seal Front Seal Front Rear Front Rear	4W2606 4W2607 4W2607 4W2568 4W2569 4W2570 4W2571
CRANKSHAFT DIF 3379 / G398 / G399 IRACK TYPE TRA D3	Sectional type seal conversion 9 CTORS 3204 6N1-Up 79U1-Up 82U1-Up 83U1-Up 3204 23Y1-Up 23Y1-Up 3204 23Y1-Up 3204 23Y1-Up	Opposite Rotation-Clockwise-View Standard Rotation-Counter Clockw Opposite Rotation-Clockwise-View GROUPS Standard Rotation-Counter Clockw (Includes: Adapter, Seal, And M Opposite Rotation-Clockwise-View (Includes: Adapter, Seal, And M 45V1-Up 45V1-32893	ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel vise-Viewing Engine Facing Flywheel Mounting Gasket) ving Engine Facing Flywheel Mounting Gasket) P.C. And D.I. Non Turbocharged Engine P.C. And D.I. Non Turbocharged Engine	204011	Rear Seal Rear Seal Front Seal Front Rear Front Rear 204012 204012	4W2606 4W2607 4W2607 4W2568 4W2569 4W2570 4W2571 204013 204013
CRANKSHAFT DIF 3379 / G398 / G399 TRACK TYPE TRA D3 D3B D3B	Sectional Type Seal Conversion 9 CTORS 3204 6N1-Up 79U1-Up 82U1-Up 83U1-Up 3204 23Y1-Up 23Y1-Up 3204 23Y1-Up 3204 23Y1-Up 3204 23Y1-Up 3204 23Y1-Up	Opposite Rotation-Clockwise-View Standard Rotation-Counter Clockw Opposite Rotation-Clockwise-View GROUPS Standard Rotation-Counter Clockw (Includes: Adapter, Seal, And M Opposite Rotation-Clockwise-View (Includes: Adapter, Seal, And M 45V1-Up	ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel vise-Viewing Engine Facing Flywheel Mounting Gasket) ving Engine Facing Flywheel Mounting Gasket) P.C. And D.I. Non Turbocharged Engine		Rear Seal Rear Seal Front Seal Front Rear Front Rear 204012	4W2606 4W2607 4W2607 4W2568 4W2569 4W2570 4W2571 204013
CRANKSHAFT DIF G379 / G398 / G399 IRACK TYPE TRA D3 D3B	CETORS 6N1-Up 3204 6N1-Up 3204 23Y1-Up	Opposite Rotation-Clockwise-View Standard Rotation-Counter Clockw Opposite Rotation-Clockwise-View GROUPS Standard Rotation-Counter Clockw (Includes: Adapter, Seal, And M Opposite Rotation-Clockwise-View (Includes: Adapter, Seal, And M 45V1-Up 45V1-32893 45V32894-40125	ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel vise-Viewing Engine Facing Flywheel vise-Viewing Engine Facing Flywheel Mounting Gasket) ing Engine Facing Flywheel Mounting Gasket) P.C. And D.I. Non Turbocharged Engine P.C. And D.I. Non Turbocharged Engine D.I. Non Turbocharged Engine	204011 204021	Rear Seal Rear Seal Front Seal Front Rear Front Rear 204012 204012 204022	4W2606 4W2607 4W2607 4W2568 4W2569 4W2570 4W2571 204013 204013 204023
CRANKSHAFT DIF 3379 / G398 / G399 IRACK TYPE TRA D3 D3B D3B D3B	CTORS 6N1-Up 3204 6N1-Up 3204 23Y1-Up 3204 24Y1-Up 3204 24Y1-Up 3204 24Y1-Up	Opposite Rotation-Clockwise-View Standard Rotation-Counter Clockw Opposite Rotation-Clockwise-View GROUPS Standard Rotation-Counter Clockw (Includes: Adapter, Seal, And M Opposite Rotation-Clockwise-View (Includes: Adapter, Seal, And M 45V1-Up 45V1-32893	ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel vise-Viewing Engine Facing Flywheel Mounting Gasket) ving Engine Facing Flywheel Mounting Gasket) P.C. And D.I. Non Turbocharged Engine P.C. And D.I. Non Turbocharged Engine	204011	Rear Seal Rear Seal Front Seal Front Rear Front Rear 204012 204012	4W2606 4W2607 4W2607 4W2568 4W2569 4W2570 4W2571 204013 204013
CRANKSHAFT DIF G379 / G398 / G399 TRACK TYPE TRA D3 D3B D3B	Sectional type seal conversion 3204 6N1-Up 3204 79U1-Up 3204 23Y1-Up	Opposite Rotation-Clockwise-View Standard Rotation-Counter Clockw Opposite Rotation-Clockwise-View GROUPS Standard Rotation-Counter Clockw (Includes: Adapter, Seal, And M Opposite Rotation-Clockwise-View (Includes: Adapter, Seal, And M 45V1-Up 45V1-32893 45V32894-40125	ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel vise-Viewing Engine Facing Flywheel vise-Viewing Engine Facing Flywheel Mounting Gasket) ing Engine Facing Flywheel Mounting Gasket) P.C. And D.I. Non Turbocharged Engine P.C. And D.I. Non Turbocharged Engine D.I. Non Turbocharged Engine	204011 204021	Rear Seal Rear Seal Front Seal Front Rear Front Rear 204012 204012 204022	4W2606 4W2607 4W2607 4W2568 4W2569 4W2570 4W2571 204013 204013 204023
CRANKSHAFT DIF G379 / G398 / G399 IRACK TYPE TRA D3 D3B D3B D3B D3B	RECTIONAL TYPE SEAL CONVERSION 9 CONVERSION 3204 6N1-Up 3204 79U1-Up 83U1-Up 83U1-Up 3204 23Y1-Up 3204 23Y1-Up	Opposite Rotation-Clockwise-View Standard Rotation-Counter Clockwise-View Opposite Rotation-Clockwise-View Standard Rotation-Counter Clockwise-View (Includes: Adapter, Seal, And M Opposite Rotation-Clockwise-View (Includes: Adapter, Seal, And M Opposite Rotation-Clockwise-View (Includes: Adapter, Seal, And M 45V1-Up 45V1-32893 45V32894-40125 45V40126-Up 45V1-32939	ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel vise-Viewing Engine Facing Flywheel Mounting Gasket) ving Engine Facing Flywheel Mounting Gasket) P.C. And D.I. Non Turbocharged Engine P.C. And D.I. Non Turbocharged Engine D.I. Non Turbocharged Engine	204011 204021 204061 204011	Rear Seal Rear Seal Front Seal Front Rear Front Rear 204012 204012 204022 204062 204012	4W2606 4W2607 4W2607 4W2568 4W2569 4W2570 4W2571 204013 204013 204023 204063 204013
CRANKSHAFT DIF 3379 / G398 / G399 IRACK TYPE TRA D3 D3B D3B D3B	RECTIONAL TYPE SEAL CONVERSION 3204 6N1-Up 3204 79U1-Up 83U1-Up 83U1-Up 3204 23Y1-Up 3204 27Y1-Up 3204 27Y1-Up	Opposite Rotation-Clockwise-View Standard Rotation-Counter Clockw Opposite Rotation-Clockwise-View GROUPS Standard Rotation-Counter Clockw (Includes: Adapter, Seal, And M Opposite Rotation-Clockwise-View (Includes: Adapter, Seal, And M 45V1-Up 45V1-Up 45V1-32893 45V32894-40125 45V40126-Up	ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel vise-Viewing Engine Facing Flywheel Mounting Gasket) ving Engine Facing Flywheel Mounting Gasket) P.C. And D.I. Non Turbocharged Engine P.C. And D.I. Non Turbocharged Engine D.I. Non Turbocharged Engine D.I. Non Turbocharged Engine D.I. Non Turbocharged Engine	204011 204021 204061	Rear Seal Rear Seal Front Seal Front Rear Front Rear 204012 204012 204022 204062	4W2606 4W2607 4W2607 4W2568 4W2569 4W2570 4W2571 204013 204013 204023 204063
CRANKSHAFT DIF G379 / G398 / G399 IRACK TYPE TRA D3 D3B D3B D3B D3B	RECTIONAL TYPE SEAL CONVERSION 9 CONVERSION 3204 6N1-Up 3204 79U1-Up 83U1-Up 83U1-Up 3204 23Y1-Up 3204 23Y1-Up	Opposite Rotation-Clockwise-View Standard Rotation-Counter Clockwise-View Opposite Rotation-Clockwise-View Standard Rotation-Counter Clockwise-View (Includes: Adapter, Seal, And M Opposite Rotation-Clockwise-View (Includes: Adapter, Seal, And M Opposite Rotation-Clockwise-View (Includes: Adapter, Seal, And M 45V1-Up 45V1-32893 45V32894-40125 45V40126-Up 45V1-32939	ving Engine Facing Flywheel vise-Viewing Engine Facing Flywheel vise-Viewing Engine Facing Flywheel Mounting Gasket) ving Engine Facing Flywheel Mounting Gasket) P.C. And D.I. Non Turbocharged Engine P.C. And D.I. Non Turbocharged Engine D.I. Non Turbocharged Engine	204011 204021 204061 204011	Rear Seal Rear Seal Front Seal Front Rear Front Rear 204012 204012 204022 204062 204012	4W2606 4W2607 4W2607 4W2568 4W2569 4W2570 4W2571 204013 204013 204023 204063 204013

	PLICATION IN Serial #, and E	FORMATION	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
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 Oiil 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 43V19034-Up 48V52801-Up 48V52801-Up 48V52812-UP 78P47088-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	44V1-2230 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
D5B	3306	26X878-Up 21Y878-Up	8Z1-Up 10z1-Up 13Z1-Up 1AF1-Up	Spacer Plated Non Turbocharged	306071	306072	306073

	PLICATION IN Serial #, and E	FORMATION	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
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	306111*	306112*	306113*
D6C D6D	3306	19X1-Up 20X1-Up 46J1-Up 47J1-Up	49V1-24230	* Order Aftercooler Gasket Kit Separately if Required Non Spacer Plated Turbocharged Engine * Order Aftercooler Gasket Kit Separately if Required	306031*	306032*	306033*
D6D	3306	3X1-Up 4X1-Up 5X1-Up 6X1-Up 19X1-Up 20X1-Up 30X1-Up 31X1-Up 32X1-Up	3N1-77760 3N1-79762 44V1-22286 44V1-22350 47V1-17093	Non Spacer Plated Turbocharged * Order Aftercooler Gasket Kit Separately if Required	306121*	306122*	306123*
D6D	3306	3X1-Up 4X1-Up 5X1-Up 6X1-Up 19X1-Up 20X1-Up 30X1-Up 31X1-Up 32X1-Up	3N79763-Up 44V22287-Up 44V22351-Up 47V17094-Up 49V24231-Up	Spacer Plated Turbocharged	306021	306022*	306023*
D6D D6H	3306		8Z1-Up 10Z1-Up 13Z1-Up 1AF1-Up	Spacer Plated Turbocharged * Order Aftercooler Gasket Kit Separately if Required	306271*	306272*	306273*
D6M	3116	4JN-Up 3WN1-Up 9ZM1-Up	4TF1-Up	. , , , , , , , , , , , , , , , , , , ,	116051	116052	116023

		FORMATION Ingine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
D6R	C9	AAX1-Up ACJ1-Up ADE1-Up AEM1-U AEM1-U AEM1-Up BLE1-Up BLE1-Up BLT1-Up BMY1-Up BNC1-Up BPM1-Up BPN1-Up BPS1-Up BPS1-Up BRS1-Up BRS1-Up BRJ1-Up BRJ1-Up BRJ1-Up BRJ1-Up BRJ1-Up BRJ1-Up BRJ1-Up BRJ1-Up BRJ1-Up BRJ1-Up	SAN1-Up 4ZF1-Up		C90021NLS	C90012NLS	C90013
D6R	C9	DLM-Up DMK-Up DPS-Up GJB1-Up GMT1-Up HCD1-Up HKE1-Up JDL1-Up LFM1-Up MTJ1-Up MTJ1-Up MTJ1-Up RFC1-Up TBC1-Up WRG1-Up	THX1-UP 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* Aproximate serial number,must confirm spacer or non-spacer plate	Non Spacer Plated Turbocharged	306121*	306122*	306123*
D7G				* Order Aftercooler Gasket Kit Separately if Required			
	3306		3N79763-Up 44V22403-UP* 62Z1-Up Approximate serial number,must confirm spacer or non-spacer plate	Spacer Plated Turbocharged P.C.	306021	306022*	306023*
D7G	3306		8Z1-26213	Spacer Plated Turbocharged D.I. Engine * Order Aftercooler Gasket Kit Separately if Required	306281*	306282*	306283*
D7H	3306		8Z26214-Up	Spacer Plated Turbocharged D.I. Engine * Order Aftercooler Gasket Kit Separately if Required	306281*	306282*	306283*

	PLICATION IN Serial #, and E	IFORMATION Engine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
D7R	3176C	ABJ1-Up ACS1-Up ADW1-Up AEC1-Up AFG1-Up AGN1-Up BNM1-Up BNM1-Up BNX1-Up BPK1-Up	7ZR1-Up	STRAIGHT HEAD GASKET	176011STRNLS	176012STRNLS	176013STR
D8H		BPT1-Up BRP1-Up <u>BRM1-Up</u> 36A1-4468		New Occase Dirich			
	D342	46A1-10724 68A1-10724		Non Spacer Plated Turbocharged * Note: Rear Crankshaft Seal Not Included	342021*	342022	342023
				Single Head Replacement Set			342024
D8H	D342	36A4469-Up 46A10725-Up		Non Spacer Plated With T-12 or T-18 * Note: Rear Crankshaft Seal Not Included Single Head Replacement Set	342031*	342032	342033
D8K	D342	76V1-600 77V1-8528	17S11-Up 50V1-Up	Non Spacer Plated Turbocharger	342011*	342012	342013
				* Note: Rear Crankshaft Seal Not Included			
D8K	D342	76V601-Up 77V8529-Up	17S11-Up 50V1-Up	Single Head Replacement Set Spacer Plated Turbocharger * Note: Rear Crankshaft Seal Not Included	342041*	342042	342043
				Single Head Replacement Set			342014
D8L	3408	53Y1-Up 7JC1-Up 7YB1-Up	48W13008-17791 77M1-Up	Non Aftercooled Turbocharged	408151		
D8L	3408	4FB 1-Up	48W17792-Up	Aftercooled Turbocharged	408021	408022	408023
D8N	3406	9TC1-Up 1XJ1-Up	70V24187-Up 11N1-Up	Non Aftercooled W/24 Bolt Flywheel Housing	406071	406072	406073
D8N				Fuel Pump Installation Set Non Aftercooled			406039
DON	3406	5TJ 1-Up	11N4939-Up	W/24 Bolt Flywheel Housing Fuel Pump Installation Set	406391	406392	406393 406039
D8N	3406	7TK 1-Up	11N7050-Up	Aftercooled W/19 Bolt Flywheel Housing	406191	406192	406193
DAD		7/////	4414004011	Fuel Pump Installation Set			406039
D8R	3406	7XM1-Up 9EM1-Up	11N12940-Up 41Z286-Up	Aftercooled W/24 Bolt Flywheel Housing Fuel Pump Installation Set	406391	406392	406393 406039
D8R	3406E	AKA1-Up 6YZ1-Up	BET1-Up	Spacer Plated Turbocharged Engine	406401	406402	406403
D8T	C15	J8B1-Up KPZ1-Up	LHX1-Up	Single Lip Rear Seal Includes Fuel Injector Seal	C15071NLS	C15072NLS	C15073
D8T	C15	FCT1-Up MLN1-Up	TXL1-Up	Double Lip Rear Seal Includes Fuel Injector 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

	PLICATION IN Serial #, and E	FORMATION ngine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
D9H	D353	90V1-Up 97V1-Up 98V1-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
D9T	3408E	7TL1-Up ABK1-Up ACL1-Up	5XD1-Up	HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included	408111NLS	408112NLS	408113
D9T	C18	RJS1-Up	RHX1-Up	Includes Fuel Injector Seals	C18001NLS	C18002NLS	C18003
D9T	C18	TWG1-Up	TXW1047-Up	Includes Fuel Injector Seals	C18181NLS	C18182NLS	C18183
D10	D348	84W1-609 76X1-363	98S1-1454	Head Gasket Not Included	348031WOHGNLS		
		70/1-303		Single Head Replacement Set - Head Gasket Not Included Cylinder Block Repair Shim Set			348044WOHG 348099
D10	D348	84W610-Up 76X364-Up	98S1455-Up	Single Head Replacement Set - Head Gasket Not Included	348041WOHGNLS		348044WOHG
				Cylinder Block Repair Shim Set			348099
D10N	3412	2YD 1-Up	73W8338-Up	D.I. Engine Single Head Replacement Set	412071	412072	412073 412074
D10N	3412E	3SK1-Up 2YD1-Up	5JJ4562-Up	DOES NOT INCLUDE 8 OF 1007401 EXHAUST MANIFOLD SEGMENT SEAL OR AFTERCOOLER GASKETS	IN DEVELOPMENT		
D10N	3412	BCR1-Up	5JJ4562-Up	D.I. Engine	412021NLS	412022NLS	412023
D10R	3412	3KR 1-Up	80M1-Up		412371		412373
D10R	3412E	AKT1-Up	5JJ4562-Up	DOES NOT INCLUDE 8 OF 1007401 EXHAUST MANIFOLD SEGMENT SEAL OR AFTERCOOLER GASKETS	412021NLS	412022NLS	412374 412023
D10T	C27	RJG1-Up	EHX1-Up	CADILLIS	C27021NLS	C27022NLS	C27023
D11N	3508	74Z 1-Up	99W1-Up	Single Head Replacement Set	508011		508013 508014
D11N	3508	4HK 1-Up	7YG203-Up	Single Lip Crankshaft Seals Single Head Replacement Set	508021		508023 508024
D11R	3508	8ZR 1-Up	7YG1-Up	DOES NOT INCLUDE 6V6640 GASKET MAKER FOR REAR CO	IVER	In Development	
D11R	3508B	7PZ1-Up 9TR1-Up 9XR1-Up	2GR1-Up	EUI Engine Contains Single Lip Crankshaft Seals	508121		508123
				Single Head Replacement Set			508124
D11T	C32	AMA1-UP	WZH1-UP		C32001NLS	C32002NLS	C32003
D11T	C32	WHH1-UP	JEL1-UP JNS1-UP		C32011NLS	C32012NLS	C32013
D11T	C32	LJW1-UP	GEB1-UP		C32111NLS	C32042NLS	C32043

(Vehicle, S	erial #, and E	IFORMATION Engine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
MOTOR GRAD	ERS						
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		3WC1-Up		Non Paiboonaigoa			
12H	3306	4ER1-Up 61M1-Up 8MN1-Up	8Z1-Up	Spacer Plated Non Turbocharged	306071	306072	306073
12G		3WC1-Up					
12H	3306	4ER1-Up 61M1-Up 8MN1-Up	8Z1-Up	Spacer Plated Turbocharged	306271	306272	306273
12G 12H	3306	2WR1-Up 3PL1-Up	8TD1-Up			In Development	
12HES	3306	2LR	8Z1-Up			In Development	
12HNS	3306	4XM	8Z1-Up			In Development	
14E	3306	72G1-1340 12K1-2198	·	Non Spacer Plated Turbocharged	306151	306152	306153
14E 14G	3306		3N1-79762	Non Spacer Plated Turbocharged	306161	306162	306163
14E 14G	3306		3N79763-Up	Spacer Plated Turbocharged	306021	306022	306023
14G 14H	3306	96U1-Up 6WM1-Up 7WJ1-Up	8Z1-Up	Spacer Plated Turbocharged	306271	306272	306273
				* Order Aftercooler Gasket Kit Separately if Required			
14H	3176C	ASE 1-Up	3PD 1-Up	STRAIGHT HEAD GASKET	176021STRNLS	176022STRNLS	176023STR
16	D343	49G 1-Up	· · ·			In Development	
16G	3406	93U1179-2678	70V4105-Up		406241	406242	406243
16G	3406	93U2679-Up	70V36899-Up 11N1449 Up	W/24 Bolt Flywheel Housing	406341	406342	406343
				Fuel Pump Installation Set			406039
16H	3406	6ZJ 1-Up	11N13000-Up 41Z1-Up	DITA W/24 Bolt Flywheel Housing	406341	406342	406343
				Fuel Pump Installation Set			406039
16M	C13	R9H1-Up	MHX1-Up	Net Rear Housing W/MLS (Multiple Layer Steel) Head Gaske	C13071NLS	C13072NLS	C13073
24M	C18	B9K1-Up	RHX1-Up	Includes Fuel Injector Seal	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

	PLICATION IN Serial #, and E	FORMATION ngine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
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		47000407050	In Development	47000070
143H 160G	3176C 3306	APN 1-Up 4JD1-Up	3PD 1-Up 8Z1-Up	STRAIGHT HEAD GASKET	176021STRNLS	176022STRNLS In Development	176023STR
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

	PLICATION IN Serial #, and E	FORMATION	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
XCAVATORS					OVERHAUL		
205B	3114	5ZF1-Up	2FG1-Up	Dry Rear Housing	114021	114012	114013
206B	3114	9BF 1-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	0001	57Y857-Up	10X1-Up	Hen Fanseshargea	001121		
	3204	14Z649-Up	10X5411-Up	Turbocharged	204051	204052	204053
	0201	61Z139-Up	10X5411-Up	, alboonalgoa	201001	201002	20.000
215B				Spacer Plated			
	3304	9YB 1-Up	12Z6564 -Up	Turbocharged	304091	304092	304093
	0001	0.2.0p		D.I. Engine	001001	001002	
215B		2XC1-Up			00/05/	00.1050	00.4050
	3204	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		51U1-2831				(
	3160	61X1-380	79V1-4926	Non Turbocharged	160021	160022	160023
225		51U2832-Up		··· - · · ·	000004		
	3208NA	61X381-Up	79V4927-Up	Non Turbocharged	208061	208062	208063
225		-		Non Spacer Plated			
	3304	76U1-3764	48V1-Up	Turbocharged	304041	304042	304043
			·	P.C. Engine			
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		·	•		208061		
	0000	1NK1-Up	70) (1 1 1		and		
	3208	5WJ1-Up	79V1-Up		6V8045 Turbo		
					Mounting kit		
235			3N1-79762	Non Spacer Plated			
	3306	64R1-1257	49Z1-24220	Turbocharged	306161	306162	306163
			4921-24220	P.C. Engine			
235				Spacer Plated			
	3306		3N79763-Up	Turbocharged	306021	306022	306023
				P.C. Engine			
235		32K1-2677					
		64R1258-Up	13Z1-Up	Spacer Plated			
	3306	62X289-Up	8Z1-Up	Turbocharged	306431	306432	306433
		91X408-Up	021-00	D.I. Engine			
		83X444-Up					
				* Order Aftercooler Gasket Kit Separately if Required			
235B		1FD1-Up		Spacer Plated			
	3306	4ED1-Up	8Z30441-41869	Turbocharged	306431	306432	306433
	0000	7WC1-Up	13Z10595-15162	D.I. Engine .	000101	000-02	000-00
		9PC1-Up		Ŭ			
				* Order Aftercooler Gasket Kit Separately if Required			
235C		2PG1-Up		Spacer Plated			
2000	3306	3WG1-Up	8Z41870-Up	Turbocharged	306431*	306432*	306433*
	3.300	4DG1-Up	13Z15163-Up		300431	300432	300433
	0000	4DG1-0p	10210100-0p	D L Enging			
		5AF1-Up	10210100-00	D.I. Engine			
			13210103-00	D.I. Engine * Order Aftercooler Gasket Kit Separately if Required			

235D 3306 8TJ1-Up 245 3406 82X475-Up 84X4751-Up 84X4751-Up 245B 3406 1SJ1-Up 245B 3406 1SJ713-Up 245B 3406 1SJ713-Up 245D 3406 1SJ713-Up 245D 3406 4LK1-Up 320 3116 7WK1-Up 320L 3116 7WK1-Up 320L 3116 9WG 1-Up 320S 3116 7WL 1-Up 322B 3116 7WS1-Up 322B 3116 3NR 1-Up 322B 3116 3NR 1-Up 322B 3116 9UL 1-Up 322L 8CL1-Up 8KL1-Up 322L 3116 9UL 1-Up 322L 3116 9UL 1-Up 322L 3116 9UL 1-Up 322L 3116 9UL 1-Up 324D C7 C7 C7 C301-Up C301-Up	<u>13Z1-Up</u> 70V4578-Up 70V26356-Up 11N1-Up 11N1-Up	* Order Aftercooler Gasket Kit Separately if Required Spacer Plated Turbocharged P.C. or D.I Engines Fuel Pump Installation Set Spacer Plated Turbocharged Fuel Pump Installation Set Spacer Plated Turbocharged D.I. Engine	306421 406091 406181	306432 406092 406182	306433 406093 406039 406183
245 3406 95V731-Up 82X475-Up 84X4751-Up 245B 3406 1SJ1-Up 6MF513-Up 245B 3406 1SJ713-Up 6MF513-Up 245D 3406 4LK1-Up 7ZJ1-Up 245D 3406 4LK1-Up 7ZJ1-Up 320 3116 4ZJ1-Up 7ZJ1-Up 320 3116 3K1-Up 7ZJ1-Up 320L 3116 9WG 1-Up 320S 3116 6KM 1-Up 322B 3116 3NR 1-Up 322B 3116 3NR 1-Up 322B 3116 3NR 1-Up 322B 3116 9KL 1-Up 322B 3116 9KL 1-Up 322B 3116 9KL 1-Up 322L 8CL 1-Up 9KL 1-Up 324D C7 BFC 1-Up C7 EDF 1-Up EJC 1-Up 324D C7 C7 C7 EDF 1-Up DF1-Up S24D C7 KBE1-Up C7 KBE1-Up KDG1-Up T251-U	70V4578-Up 70V26356-Up 11N1-Up	Turbocharged P.C. or D.I Engines Fuel Pump Installation Set Spacer Plated Turbocharged Fuel Pump Installation Set Spacer Plated Turbocharged D.I. Engine	406091	406092	406093 406039
3406 82X475-Up 84X4751-Up 245B 3406 1SJ1-Up 6MF1-Up 245B 3406 1SJ713-Up 6MF513-Up 245D 3406 4LK1-Up 7ZJ1-Up 320 3116 4ZJ1-Up 7ZJ1-Up 320 3116 3XK1-Up 320L 3116 9WG 1-Up 320S 3116 6KM 1-Up 322B 3116 3NR 1-Up 322D C7 BFC1-Up 324D C7 BFC1-Up C37 EDF1-Up EDF1-Up S24D C7 C3M-Up C7 C3M-Up DFP1-Up TSN1-Up DF1-Up DF1-Up S24D C7 KDG1-Up C7 KDG1-Up DF3-Up	70V26356-Up 11N1-Up	Turbocharged P.C. or D.I Engines Fuel Pump Installation Set Spacer Plated Turbocharged Fuel Pump Installation Set Spacer Plated Turbocharged D.I. Engine			406039
3406 6MF1-Up 245B 3406 1SJ713-Up 6MF513-Up 245D 3406 4LK1-Up 7ZJ1-Up 320 3116 4ZJ1-Up 320 3116 7WK1-Up 320 3116 9WG 1-Up 320 3116 9WG 1-Up 320 3116 9WG 1-Up 320S 3116 0KM 1-Up 322B 3116 3NR 1-Up 322B 3116 9RL1-Up 324D C7 BSC1-Up 324D C7 BYS 1-Up 324D C7 BFC1-Up C7 EDF1-Up EDF1-Up S24D C7 KDG1-Up C7 KBE1-Up BFG1-Up DFJ1-Up DFJ1-Up BY1-Up	11N1-Up	Spacer Plated Turbocharged Fuel Pump Installation Set Spacer Plated Turbocharged D.I. Engine	406181	406182	
3406 6MF1-Up 245B 3406 1S.J713-Up 6MF513-Up 245D 3406 4L.K1-Up 7ZJ1-Up 320 3116 4ZJ1-Up 320 3116 7WK1-Up 320L 3116 9WG 1-Up 320S 3116 6KM 1-Up 320S 3116 7WL 1-Up 322B 3116 3NR 1-Up 322L 3116 9RL1-Up 322L 3116 9RL1-Up 324D C7 BYS 1-Up 324D C7 BFC1-Up C7 EDF1-Up EDF1-Up S24D C7 KDG1-Up C7 KBE1-Up BFG1-Up DFJ1-Up DFJ1-Up DFJ1-Up	11N1-Up	Turbocharged Fuel Pump Installation Set Spacer Plated Turbocharged D.I. Engine	406181	406182	406183
3406 15.713-Up 6MF513-Up 245D 3406 4LK1-Up 7ZJ1-Up 320 3116 4ZJ1-Up 320 3116 4ZJ1-Up 320 3116 7WK1-Up 320L 3116 1TL1-Up 320S 3116 6KM 1-Up 322B 3116 7WL 1-Up 322B 3116 3NR 1-Up 322B 3116 5CR1-Up 322L 8CL1-Up 8CL1-Up 3216 9HL1-Up 9RL1-Up 322N 3116 9JL 1-Up 324D C7 A3R 1-Up C7 BFC1-Up EDF1-Up 324D C7 C3M1-Up C7 C3M1-Up EDF1-Up BFC1-Up EJC1-Up DF1-Up S24D C7 KDG1-Up C7 KDG1-Up DF1-Up BFC1-Up DF1-Up DF1-Up S24D C7 KDG1-Up C7 KDG1-Up T2S1-Up		Spacer Plated Turbocharged D.I. Engine			
3406 1SJ/13-Up 6MF513-Up 245D 3406 4LK1-Up 7ZJ1-Up 320 3116 4ZJ1-Up 7WK1-Up 320L 3116 7WK1-Up 320L 3116 3XK1-Up 320S 3116 6KM 1-Up 322B 3116 7WL 1-Up 322B 3116 3NR 1-Up 322B 3116 3NR 1-Up 322B 3116 5CR1-Up 322B 3116 9JL 1-Up 322L 8CL1-Up 9RL1-Up 322N 3116 9JL 1-Up 322N 3116 9JL 1-Up 324D C7 BYS 1-Up C7 C3N1-Up EJC1-Up 324D C7 BYS 1-Up C7 C3N1-Up DFP1-Up TSN-UP AZP1-UP DFP1-Up TSN-UP AZP1-UP DFP1-UP 324D C7 KBE1-Up C7 KBE1-Up DFJ1-UP BYS1-UP DFJ1-UP BYS1-UP		Turbocharged D.I. Engine			406039
3406 4LK1-Up 7ZJ1-Up 320 3116 4ZJ1-Up 7WK1-Up 320L 3116 7WK1-Up 320N 3116 9WG 1-Up 320S 3116 6KM 1-Up 322B 3116 7WL 1-Up 322B 3116 7WL 1-Up 322B 3116 3NR 1-Up 322B 3116 SCR1-Up 322B 3116 9RL1-Up 322B 3116 9RL1-Up 322B 3116 9RL1-Up 322L 8CL1-Up 9RL1-Up 322N 3116 9JL 1-Up 324D C7 BSS 1-Up C7 EJC1-Up EJC1-Up 324D C7 BSS 1-Up C7 C3N1-Up DFP1-Up TSN1-Up AZP1-UP DFP1-Up BS1-UP DF1-UP TSN1-Up BS1-UP DF1-UP TSN1-UP BS1-UP BH1-UP BH1-UP BS1-UP DF1-UP TSN-UP <td>11N1-Up</td> <td></td> <td>406181</td> <td>406182</td> <td>406183</td>	11N1-Up		406181	406182	406183
3406 4LK1-Up 7ZJ1-Up 320 3116 4ZJ1-Up 320L 3116 7WK1-Up 320N 3116 1TL1-Up 320N 3116 9WG 1-Up 320S 3116 6KM 1-Up 322B 3116 7WL 1-Up 322B 3116 3NR 1-Up 322B 3116 3NR 1-Up 322B 3116 3NR 1-Up 322B 3116 3NR 1-Up 322B 3116 9KL1-Up 322L 8CL1-Up 8CL1-Up 322D 3116 9ML 1-Up 324D C7 BSFC1-Up C7 EDF1-Up EDF1-Up 324D C7 C3N1-Up C7 EDF1-Up DF1-Up S24D C7 KBE1-Up C7 KBE1-Up DF1-Up BYS 1-Up DF1-Up DF1-Up S24D C7 KBE1-Up 0FJ1-Up DFJ1-Up BY3-Up <td< td=""><td>11N1-Up</td><td>Fuel Pump Installation Set</td><td></td><td></td><td>406039</td></td<>	11N1-Up	Fuel Pump Installation Set			406039
3116 TWK1-Up 320L 3116 1TL1-Up 320N 3116 9WG 1-Up 320S 3116 6KM 1-Up 322B 3116 7WL 1-Up 322B 3116 3NR 1-Up 322B 3116 3NR 1-Up 322B 3116 3NR 1-Up 322BL 3116 3NR 1-Up 322L 8CL1-Up 8CL1-Up 3116 4RM 1-Up 9RL1-Up 322N 3116 9JL 1-Up 324D C7 A3R 1-Up C7 EDF1-Up EDF1-Up 324D C7 BSC1-Up C7 C3N1-Up DFP1-Up BF1-Up C7 EDF1-Up BF1-Up TSN1-Up DFP1-UP BF1-Up TSN1-UP DF1-UP BF1-UP FS1-UP BF1-UP BF1-UP FS1-UP BF1-UP BF1-UP RK1-UP BF31-UP BF31-UP BF31-UP BF31-UP		Spacer Plated Turbocharged D.I. Engine	406181	406182	406183
3116 TWK1-Up 320L 3116 1TL1-Up 320N 3116 9WG 1-Up 320S 3116 6KM 1-Up 322B 3116 7WL 1-Up 322B 3116 3NR 1-Up 322B 3116 3NR 1-Up 322B 3116 3NR 1-Up 322BL 3116 3NR 1-Up 322L 8CL 1-Up 8CL 1-Up 3116 4RM 1-Up 9RL 1-Up 322N 3116 9JL 1-Up 324D C7 A3R 1-Up C7 EDF 1-Up C3N1-Up BFC1-Up C7 BFC1-Up 324D C7 C3N1-Up DFP1-Up TSN1-Up DFP1-Up BFL-UP C7 KBE1-UP KDG1-UP T2S1-UP BYS1-UP BFS1-UP BYS1-UP BYS1-UP BYS1-UP RSK1-UP RSK1-UP		Fuel Pump Installation Set			406039
3116 3XK1-Up 320N 3116 9WG 1-Up 320S 3116 6KM 1-Up 322 3116 7WL 1-Up 322B 3116 3NR 1-Up 322B 3116 5CR1-Up 322L 8CL1-Up 9RL1-Up 322L 3116 9RL1-Up 322L 3116 9RL1-Up 322L 3116 9RL1-Up 322N 3116 9JL 1-Up 324D C7 BYS 1-Up 324D C7 BSC1-Up C7 EJC1-Up EJC1-Up 324D C7 BFC1-Up C7 C3N1-Up DFP1-Up TSN1-Up DFP1-Up TSN1-Up BFC1-UP CJX1-UP DFP1-UP TSN1-UP BFC1-UP BFC1-UP BF1-UP DFP1-UP TSN1-UP BF1-UP DF1-UP TSN1-UP BF1-UP BF1-UP BF1-UP BF1-UP BF31-UP DF1-UP	1CK1-Up 4TF1-UP		116031		116023
320N 3116 9WG 1-Up 320S 3116 6KM 1-Up 322 3116 7WL 1-Up 322B 3116 3NR 1-Up 322B 3116 3NR 1-Up 322B 3116 3NR 1-Up 322B 3116 3NR 1-Up 322B 3116 SCR1-Up 322L 8CL1-Up 8CL1-Up 3116 9RL1-Up 9RL1-Up 322N 3116 9JL 1-Up 324D C7 A3R 1-Up C7 EDF1-Up C3N1-Up S24D C7 EDF1-Up TSN1-Up EJC1-UP S2H-UP 324D C7 KBE1-UP C7 KBE1-UP DFP1-UP BSC1-UP TSN1-UP BSC1-UP DF91-UP TSN1-UP BSC1-UP BS1-UP DF1-UP BS1-UP BS1-UP BS1-UP BS1-UP BS1-UP BS1-UP BS1-UP BS1-UP BYS1-UP BY	1CK1-Up		116031		116023
320S 3116 6KM 1-Up 322 3116 7WL 1-Up 322B 3116 3NR 1-Up 322L 8CL1-Up SCR1-Up 322L 8CL1-Up 9RL1-Up 322N 3116 4RM 1-Up 324D C7 A3R 1-Up 324D C7 BFC1-Up C7 EDF1-Up EJC1-Up 324D C7 BFC1-Up C7 EDF1-Up EJC1-Up S24D C7 KB1-Up DF1-Up DBH1-Up ERK1-Up DBH1-Up DBH1-Up DBH1-Up DBH1-Up KDG1-Up T2S1-Up DFJ1-Up MNB1-Up BYS1-Up DFJ1-Up RSK1-Up RSK1-Up	4TF1-UP				
322 3116 TWL 1-Up 322B 3116 3NR 1-Up 322BL 3116 3NR 1-Up 322BL 3116 1YS1-Up 322L 8CL1-Up SCR1-Up 322L 8CL1-Up 9RL1-Up 322N 3116 4RM 1-Up 324D C7 A3R 1-Up 324D C7 A3R 1-Up 324D C7 BYS 1-Up 324D C7 BYS 1-Up 324D C7 BFC1-Up C7 EDF1-Up C3N1-Up BFC1-UP C3N1-Up DFP1-Up DFP1-UP TSN1-Up DBH1-Up DBH1-UP ERK1-UP DBH1-UP DBH1-UP BYS1-UP DF1-UP DF1-UP KDG1-UP T2S1-UP BYS1-UP DF1-UP BYS1-UP BYS1-UP BYS1-UP BYS1-UP BYS1-UP RSK1-UP RSK1-UP	4TF1-Up		116031		116023
322B 3116 3NR 1-Up 322BL 3116 1YS1-Up 322L 8CL1-Up 3116 8ML1-Up 3116 9RL1-Up 322N 3116 324D C7 A3R 1-Up BYS 1-Up 324D C7 BFC1-Up C7 BFC1-Up C3N1-Up 324D C7 C7 EDF1-Up BFC1-Up C3N1-Up BF1-Up TSN1-Up BF1-Up BBH1-UP BF1-UP BF1-UP	4TF1-Up		116031		116023
322BL 3116 1YS1-Up 322L 8CL1-Up 3116 8ML1-Up 9RL1-Up 9RL1-Up 322N 3116 4RM 1-Up 324D C7 A3R 1-Up 324D C7 BFC1-Up 324D C7 C3N1-Up 324D C7 C3N1-Up 324D C7 EDF1-Up 324D C7 EDF1-Up C7 EDF1-Up EJC1-Up 324D C7 KBC1-Up DFP1-Up TSN1-UP DFP1-Up TSN1-UP DFP1-UP TSN1-UP DF1-UP TSN1-UP DBH1-UP BF1-UP DBH1-UP DBH1-UP DF1-UP TS1-UP DBH1-UP DF1-UP KDG1-UP T2S1-UP BYS1-UP BYS1-UP BYS1-UP BYS1-UP BYS1-UP BYS1-UP BYS1-UP RSK1-UP RSK1-UP	1CK1-Up		116031		116023
3116 5CR1-Up 322L 8CL1-Up 3116 8ML1-Up 9RL1-Up 9RL1-Up 322LN 3116 4RM 1-Up 322N 3116 9JL 1-Up 324D C7 A3R 1-Up 324D C7 BFC1-Up 324D C7 C3N1-Up 324D C7 C3N1-Up 324D C7 EJC1-Up 324D C7 BFC1-Up 524D C7 EJC1-Up 524D C7 KDC1-Up 524D C7 KBC1-Up 524D C7 KBE1-Up 7 KBE1-UP FS1-UP 7 KBC1-UP FS1-UP 7 KBE1-UP KDG1-UP 7 KBE1-UP BYS1-UP 8YS1-UP BYS1-UP BYS1-UP 8YS1-UP RSK1-UP RSK1-UP	1CK1-Up		116031		116023
SCR1-Up 322L 8CL1-Up 3116 8ML1-Up 9RL1-Up 9RL1-Up 322N 3116 4RM 1-Up 322N 3116 9JL 1-Up 324D C7 A3R 1-Up 324D C7 BYS 1-Up 324D C7 C3N1-Up 324D C7 C3N1-Up 324D C7 C3N1-Up 324D C7 C3N1-Up 524D C7 KDF1-Up 524D C7 KDG1-Up 524D C7 KBE1-Up 524D C7 KBE1-Up 7 KBE1-Up DBH1-Up 7 KDG1-Up T2S1-Up 7 KBE1-Up BYS1-Up 7 KBE1-Up BYS1-Up 8 SYS1-Up BYS1-Up 8 SYS1-Up BYS1-Up 8 SYS1-Up SYS1-Up 8 SYS1-Up SYS1-Up 8 SYS1-Up	1CK1-Up		116031		116023
3116 8ML1-Up 9RL1-Up 322LN 3116 4RM 1-Up 322N 3116 9JL 1-Up 324D C7 BYS 1-Up 324D C7 BYS 1-Up 324D C7 C3N1-Up 524D C7 C3N1-Up 324D C7 C3N1-Up 324D C7 C3N1-Up 324D C7 C3N1-Up 324D C7 C3N1-Up 524D C7 KDF1-Up 524D C7 KBE1-Up 67 KDG1-Up T2S1-Up 7 BYS1-Up DFJ1-Up 7 KBE1-Up KDG1-Up 7 KBE1-Up BYS1-Up 0 DFJ1-Up MNB1-Up 8YS1-Up DFJ1-Up MNB1-Up 8X4D C7 LAL1-Up	98Z1-Up				
9RL1-Up 322LN 3116 4RM 1-Up 322N 3116 9JL 1-Up 324D C7 BYS 1-Up 324D C7 BYS 1-Up 324D C7 BFC1-Up C7 EDF1-Up EJC1-Up 324D CJX1-Up 524D CJX1-Up DFP1-Up TSN1-Up AZP1-UP DBH1-Up EK1-Up C7 KBE1-Up KDG1-Up T2S1-Up BYS1-Up DFJ1-Up BYS1-Up DFJ1-Up SYS1-Up DFJ1-Up MNB1-Up RSK1-Up S24D C7 LAL1-Up	1CK1-Up		440004		110000
322LN 3116 4RM 1-Up 322N 3116 9JL 1-Up 324D C7 A3R 1-Up 324D C7 BYS 1-Up 324D C7 C3N1-Up 324D C7 EDF1-Up 324D C7 C3N1-Up 324D C7 EDF1-Up 324D CJX1-Up DFP1-Up 324D CJX1-Up DFP1-Up 324D CJX1-Up DFP1-Up 524D C7 KBE1-Up 0BH1-Up ERK1-Up DFH1-Up DBH1-Up BYS1-Up DFJ1-Up 0FJ1-Up MNB1-Up BYS1-Up 0FJ1-Up MS81-Up SK1-Up 324D C7 LAL1-Up	4TF1-Up		116031		116023
322N 3116 9JL 1-Up 324D C7 A3R 1-Up BYS 1-Up BYS 1-Up 324D C7 BFC1-Up C7 EDF1-Up EJC1-Up EJC1-Up 324D CJX1-Up BFC1-UP EJC1-Up 324D CJX1-Up BFP1-UP TSN1-UP BFH-UP DFP1-UP DBH1-UP BH1-UP BFR1-UP DFH1-UP DBH1-UP BH1-UP BFS1-UP DFH1-UP DFJ1-UP T2S1-UP BYS1-UP DFJ1-UP BYS1-UP RSK1-UP RSK1-UP RSK1-UP	97Z1-UP 4TF1-Up		116031		116023
324D C7 A3R 1-Up BYS 1-Up 324D BFC1-Up C7 BFC1-Up 324D C7 C3N1-Up C7 EDF1-Up EJC1-Up 324D CJX1-Up DFP1-Up 324D CJX1-Up DFP1-Up 324D CJX1-Up DFP1-Up 324D C7 KBE1-UP BH1-Up ERK1-Up DBH1-Up DF1-Up T2S1-Up DF1-Up DF1-Up T2S1-Up BYS1-Up BYS1-Up BYS1-Up BYS1-Up BYS1-Up BYS1-Up BYS1-Up BYS1-Up RSK1-Up RSK1-Up 324D C7 LAL1-Up	4TF1-0p 4TF1-Up		116031		116023
BYS 1-Up 324D BFC1-Up C7 C3N1-Up EDF1-Up EJC1-Up 324D CJX1-Up 324D CJX1-Up 324D CJX1-Up 324D CJX1-Up BFC1-Up TSN1-Up DFP1-Up TSN1-UP DBH1-Up BK1-Up C7 KBE1-Up T2S1-Up BYS1-Up DFJ1-Up T2S1-Up BYS1-Up BYS1-Up BYS1-Up SX4D			110031		110023
324D BFC1-Up C7 C3N1-Up EDF1-Up EJC1-Up 324D CJX1-Up 324D CJX1-Up TSN1-Up DFP1-Up TSN1-Up DFP1-Up C7 KBE1-Up C7 KBE1-Up BYS1-Up DF1-Up DSH1-Up ERK1-Up DF1-Up T2S1-Up BYS1-Up DFJ1-Up DFJ1-Up MNB1-Up RSK1-Up RSK1-Up 324D C7	C7C 1-Up			C70082	C70083
С7 С3N1-Up EDF1-Up EJC1-Up 324D СJX1-Up DFP1-Up TSN1-Up AZP1-UP DBH1-Up ERK1-Up C7 КВЕ1-Up KDG1-Up T2S1-Up BYS1-Up DFJ1-Up BYS1-Up DFJ1-Up SYS1-Up BYS1-Up AKD61-Up RSK1-Up 324D С7 LAL1-Up					
C7 EDF1-Up EJC1-Up 324D CJX1-Up DFP1-Up AZP1-UP DBH1-Up DBH1-Up ERK1-Up C7 KBE1-Up KDG1-Up T2S1-Up BYS1-Up DFJ1-Up MNB1-Up RSK1-Up ZS4D C7					
EJC1-Up 324D CJX1-Up DFP1-Up TSN1-Up AZP1-UP DBH1-UP ERK1-Up C7 KBE1-Up KDG1-Up T2S1-Up BYS1-Up DFJ1-Up MNB1-Up RSK1-Up 324D C7 LAL1-Up	C7C 1-Up			C70062	C70063
324D CJX1-Up DFP1-Up TSN1-Up AZP1-UP DBH1-UP BH1-Up ERK1-Up C7 KBE1-Up KDG1-Up T2S1-Up BYS1-Up DFJ1-Up MNB1-Up RSK1-Up 324D C7 LAL1-Up					
C7 KBE1-Up TSN1-Up AZP1-UP DBH1-Up ERK1-Up KDG1-Up T2S1-Up BYS1-Up DFJ1-Up MNB1-Up RSK1-Up 324D C7 LAL1-Up					
AZP1-UP DBH1-Up ERK1-Up C7 KBE1-Up KDG1-Up T2S1-Up BYS1-Up DFJ1-Up DFJ1-Up MNB1-Up RSK1-Up 324D C7 LAL1-Up					
DBH1-Up ERK1-Up C7 KBE1-Up KDG1-Up T2S1-Up BYS1-Up DFJ1-Up MNB1-Up RSK1-Up 324D C7 LAL1-Up					
ERK1-Up C7 KBE1-Up KDG1-Up T2S1-Up BYS1-Up DFJ1-Up MNB1-Up RSK1-Up 324D C7 LAL1-Up					
C7 KBE1-Up KDG1-Up T2S1-Up BYS1-Up DFJ1-Up MNB1-Up RSK1-Up 324D C7 LAL1-Up					
KDG1-Up T2S1-Up BYS1-Up DFJ1-Up MNB1-Up <u>RSK1-Up</u> 324D C7 LAL1-Up					
T2S1-Up BYS1-Up DFJ1-Up MNB1-Up <u>RSK1-Up</u> 324D C7 LAL1-Up	KHX1-Up			C70072	C70073
BYS1-Up DFJ1-Up MNB1-Up <u>RSK1-Up</u> 324D C7 LAL1-Up					
DFJ1-Up MNB1-Up <u>RSK1-Up</u> 324D C7 LAL1-Up					
MNB1-Up RSK1-Up 324D C7 LAL1-Up					
RSK1-Up 324D C7 LAL1-Up					
324D C7 LAL1-Up					
	C7C1-Up			C70072	C70073
ТРИЛ-Ор	KHX1-Up				
324D AZP1-Up					
BFC1-Up					
BZW1-Up				070000	070000
C7 C3N1-Up				C70082	C70083
C4H1-Up	KHX 1-Up				
C8L1-Up C9M1-Up	КНХ 1-Up				

	PPLICATION IN Serial #, and E	FORMATION	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
325		6RM1-Up 7TG1-Up 8JG1-Up	1CK1-Up				
	3116	8NL1-Up 8YK1-Up 9SG1-Up	4TF1-Up 98Z1-UP		116031		116023
325B	3116	8GM1-Up 8PR1-Up	4TF1-Up		116031		116023
325BL	3116	1GS1-Up 2JR1-Up 7EN1-Up 8RR1-Up	4TF1-Up 98Z1-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	C7C 1-Up			C70082	C70083
0050		MKR1-Up MNB1-Up SCR1-Up TSN1-Up					
325D	C7	DBH1-Up DJF1-Up EBM1-Up GBP1-Up JCL1-Up JGK1-Up JGK1-Up JJG1-Up SCY1-Up SCY1-Up SCC1-Up T2D1-Up T2D1-Up TPM1-Up TSN1-Up	KHX1-Up			C70082	C70083
325L	3116	2ЈК1-Up 2SL1-Up 7СЈ1-Up 7LJ1-Up 7LM1-Up 8NК1-Up	1СК1-Up 4TF1-Up 98Z1-UP		116031		116023
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

	PLICATION IN Serial #, and E	FORMATION	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
329D	C7	C7K1-Up H3N1-Up JKR1-Up WDK1-Up XDB1-Up	КНХ 1-Up			C70082	C70083
329D	C7	GPB1-Up NAC1-Up PAL1-Up PKE1-Up RJK1-Up	С7С 1-Up			C70082	C70083
330	3306	WDK1-Up 6ZK1-Up 8RL1-Up 9NG1-Up 9PJ1-Up 9WJ1-Up	10Z1-Up			In Development	
330BL							
	3306	6DR1-UP	8Z1-Up	* Order Aftercooler Gasket Kit Separately if Required	306431		
330C		B1K1-Up					
	C9	CAP1-Up JCD1-Up JNK1-Up MKM1-Up	4ZF1-Up SAN1-Up		C90021NLS	C90022NLS	C90023
330C	C9	B2L1-Up B3M1-Up B4N1-Up DKY1-Up KDD1-Up	4ZF1Up THY1-Up	-	C90051NLS	C90052NLS	C90053
330D	С9	B6H1-Up MWP1-Up H3D1-Up JLP1-Up LRM1-Up MAG1-Up	THX1-Up THY1-Up		C90041NLS	C90042NLS	C90043
330D		MEY1-Up NBD1-Up D3D1-Up					
	C9	ERN1-Up GGE1-Up PCL1-Up RAS1-Up THJ1-Up	4ZF1-Up THY1-Up		C90051NLS	C90052NLS	C90053
330D 330L	C9	EAH1-Up FFK1-Up T2Y1-Up	THX1-Up		C90061NLS	C90062NLS	C90063
350 350L	3306	8HK1-Up 9FL1-Up	8Z1-Up	Note: Rear Housing liquid gasket maker is Not included * Order Aftercooler Gasket Kit Separately if Required	306431	306432	306433

		INFORMATION d Engine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
350	3306	8HK1-Up	13Z1-Up	·	306431	306432	306433
350L		9FL1-Up		Note: Door Housing limits and the second states in Notice budget			
				Note: Rear Housing liquid gasket maker is Not included * Order Aftercooler Gasket Kit Separately if Required			
375		1JM1-Up					
375L	3406C	6Nk1-Up	11N1-Up		406181	406182	406183
		8WJ1-Up 9WL1-Up	41Z1-Up				
		- -		Fuel Pump Installation Set			406039
385C		EAM1-UP EDA1-UP GLT1-					
		UP JCM1-UP KBC1-UP					
	C18	KGB1-UP KKK1-UP MMA1- UP MNZ1-UP SBE1-UP	RHX1-Up	Includes Fuel Injector Seal	C18121NLS	C18122NLS	C18123
		T2E1-UP T2F1-UP WAW1-					
		UP					
5080		6XK1-Up					
	3406	8SL1-Up	11N1-Up			In Development	
				Fuel Pump Installation Set			406039
5130	3508	5ZL1-Up 7TJ1-Up	7YG1-Up			In Development	
5130B	3508B	4CS 1-Up	2GR1-Up	EUI Engine	508121		508123
				Non-ceramic Exhaust Manifolds Single Head Replacement			508124
5230	3516	7LL1-Up	2PK1-Up	Single Head Replacement		In Development	508124
E110B		5GK1-Up			111001		111010
	3114	8MF1-Up	2ZF1-Up	Dry Rear Housing	114021	114012	114013
E120B	3114	4XF1-Up	2ZF1-Up	Dry Rear Housing	114021	114012	114013
E200B	3116	6JF1-Up 6KF 1-Up	4TF1-Up	21911000110000119	116031		116023
EL200B	3116	7FD 1-Up	4TF1-Up		116031		116023
E240B		8SF1-Up	- 1				
	3116	9PF1-Up	1CK1-Up		116031		116023
EL240B	3116	5WG1-Up	1CK-1-Up		116031		116023
50400		6MG1-Up	•				
E240C EL240C	3116 3116	2RL 1-Up 9PK1-Up	1CK1-Up 1CK1-Up		116031	In Development	116023
E300	3110	9PK I-OP	ICKI-OP	Spacer Plated			
2000	3306	2CF101-Up	10Z-9394-Up	Turbocharged	306431*	306432*	306433*
				D.I. Engine			
				* Order Aftercooler Gasket Kit Separately if Required			
E300B			107100	Spacer Plated	000.000	000 100*	
	3306	1WJ 1-Up	10Z16955-Up		306431*	306432*	306433*
				D.I. Engine * Order Aftercooler Gasket Kit Separately if Required			

		INFORMATION Engine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
EL300	3306	4NF101-Up	10Z9394-Up	Spacer Plated Turbocharged D.I. Engine * Order Aftercooler Gasket Kit Separately if Required	306431*	306432*	306433*
EL300B	3306	3FJ 1-Up	10Z16955-Up	Spacer Plated Turbocharged D.I. Engine * Order Aftercooler Gasket Kit Separately if Required	306431*	306432*	306433*
345B	3176C	2NW1-Up 2SW1-Up 2ZW1-Up 3MW1-Up 4SS1-Up 5WS1-Up 6XS1-Up 7KS1-Up 9GS1-Up AKJ1-Up AKX1-Up ALB1-Up ALD1-Up ANJ1-Up BFG1-Up APG1-Up DCW1-Up DET1-Up FEE1-Up CCC1-Up CDJ1-Up	7ZR1-Up	Straight Style Head Gasket	176001STRNLS	176002STRNLS	176003STR
345B	3176C	2NW1-Up 2SW1-Up 2ZW1-Up 3MW1-Up 4SS1-Up 5WS1-Up 6XS1-Up 7KS1-Up 9GS1-Up AKJ1-Up AKX1-Up ALB1-Up ALD1-Up ANJ1-Up BFG1-Up APG1-Up DCW1-Up DET1-Up FEE1-Up CCC1-Up CDJ1-Up	7ZR1-Up	Scalloped Style Head Gasket	176001SCLNLS	176002SCLNLS	176003SCL
345D	C13	EEH1-UP RAJ1-UP	MHX1-UP	(Wet) Double Lip Rear Seal With MLS (Multiple Layer Steel) Head Gasket	C13091NLS	C13092NLS	C13093
ACKHOE LO							
446 446B	3114	6XF1-Up	2FG1-Up	Dry Rear Housing	114021	114012	114013
440D	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
KIDDERS 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
528	3306	51S 1-67		Non Spacer Plated Turbocharged P.C. Engine	306151	306152	306153

		FORMATION ingine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
528				Non Spacer Plated			
	3306		3N1-79762	Turbocharged	306161	306162	306163
				P.C. Engine			
528				Spacer Plated			
	3306		3N79763-Up	Turbocharged	306021	306022	306023
				P.C. Engine			
528		96C1-Up		Spacer Plated			
	3306	97C1-Up	8Z1-Up	Turbocharged	306271	306272	306273
		78W1-Up	-	D.I. Engine			
PELAYERS							
561C				Non Spacer Plated			
	3306	92J 1-390		Non Turbocharged	306041	306042	306043
				P.C. Engine			
561C				Non Spacer Plated			
561D	3306		3N1-79762	Non Turbocharged	306031	306032	306033
				P.C. Engine			
561C				Spacer Plated			
561D	3306		3N79763-Up	NonTurbocharged	306011	306012	306013
			·	P.C. Engine			
561D				Spacer Plated			
	3306	54X 1-Up	8Z1-Up	NonTurbocharged	306071	306072	306073
				D.I. Engine			
571F		05114 400		Non Spacer Plated			
572F	3306	95N1-192		Non Turbocharged	306041	306042	306043
•••		96N1-178		P.C. Engine			
				Rear P.T.O. Gasket Set			306289
571F							
571G				Non Spacer Plated			
572F	3306		3N1-79762	Turbocharged	306121	306122	306123
572G				P.C. Engine			
				Rear P.T.O. Gasket Set			306289
571F							
571G				Spacer Plated			
572F	3306		3N79763-Up	Turbocharged	306021	306022	306023
572G				P.C. Engine			
				Rear P.T.O. Gasket Set			306289
571F							
571G	0000	40U1-Up	074	Spacer Plated	000004	000000	000000
572F	3306	5ZD1-Up	8Z1-Up	Turbocharged	306281	306282	306283
572G		• • P		D.I. Engine			
				Rear P.T.O. Gasket Set			306289
				* Order Aftercooler Gasket Kit Separately if Required			200200
583K	D342	78V1-Up	17S1-Up	······································			342043
589	3408	31Z 1-Up	48W1-Up		408141		2.20.0
594H	D353	96V1-Up	97U1-97U7921		353131		
		S AND SCRAPERS					
613	3160						
	Front	71M1-4125	98M1-Up	Non Turbocharged Engine	160021	160022	160023
	Engine	111111120	comi-op		100021	100022	100020
613B	3160						
	Front	38W1-5538	79V1-5380	Non Turbocharged Engine		208012	208013
	Engine		1011-0000			200012	200010
613B	3208						
0100	Front	38W 5539-Up	79V5381-Up	Non Turbocharged Engine	208011	208012	208013
		3011 3339-Oh	191000-0h	NOT TUDOCIALGEU ENGINE	200011	200012	200013
	Engino						
6130	Engine 3116						
613C	Engine 3116 Front	93X2780-Up	98Z1-Up		116021		116023

	PPLICATION INFO	ORMATION gine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
613C	3116 Front Engine	8LJ1-Up 9FM1-Up	4TF1-Up		116021	<u> </u>	116023
615	3306 Front Engine	46Z 1-Up	8Z1-Up		306421*	306062*	306063*
615C	3306 Front Engine	5TF1-Up 9XG1-Up 2XG1-Up	6NC1-Up 8Z1-Up	* Order Aftercooler Gasket Kit Separately if Required * Order Aftercooler Gasket Kit Separately if Required	306421*	306062*	306063*
621B	3406 Front Engine	45P 1-Up	70V3145-Up	Spacer Plated Turbocharged Engine	406161	406162	406163
621E	3406 Front Engine	6AB1-Up 2PD1-Up	70V22151-Up 11N1-7399	Spacer Plated Turbocharged Engine W/19 Bolt Flywheel Housing	406251	406252	406253
621F	3406 Front Engine	4SK1-Up 8PI1-Up	11N7400-Up 41Z469-Up	Fuel Pump Installation Set Spacer Plated Turbocharged Engine W/24 Bolt Flywheel Housing Fuel Pump Installation Set	406351	406352	406039 406353 406039
621G	3406E	ALP1-Up CEN1-Up	BET1-Up	Spacer Plated Turbocharged Engine	406321	406322	406323
623B	3406 Front Engine	46P 1-Up	70V3145-Up	Spacer Plated Turbocharged Engine	406161	406162	406163
623E	3406 Front Engine	6CB1-Up 6YF1-Up 7CG1-Up	70V22151-Up 11N1-Up	Spacer Plated Turbocharged Engine W/19 Bolt Flywheel Housing	406251	406252	406253
623F	3406 Front Engine	6BK 1-Up	11N7400-Up 41Z504-Up	Fuel Pump Installation Set Spacer Plated Turbocharged Engine W/24 Bolt Flywheel Housing	406351	406352	406039 406353
623G	3406E	ARW1-Up	BET1-Up	Fuel Pump Installation Set Spacer Plated Turbocharged Engines	406361	406362	406039 406363
627	3306 Front Engine	CES1-Up 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.	306131*	306132*	306133*
627 627B	3306 Front Engine	14S1-Up 15S1-Up	3N1-79762	* Order Aftercooler Gasket Kit Separately if Required Non Spacer Plated Turbocharged P.C.	306141	306142*	306143*
	3306 Rear Engine	37V1-Up 38V1-Up	3N1-79762	Non Spacer Plated Turbocharged P.C. * Order Aftercooler Gasket Kit Separately if Required	306141	306142*	306143*

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

	PLICATION INF Serial #, and E	FORMATION ngine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
631G	3408E Front	AWK1-Up	5XD1-Up		408171NLS	408112NLS	408113
633	Engine 343 Front Engine	66M1-Up		Spacer Plated Turbocharged P.C.	343071		
633D	3408 Front Engine	25W1-Up	48W950-Up		408011	408012	408013
633E	3408E Front Engine	2PS1-Up	99C1-Up	Single Head Replacement Set	408371		408014 408373
637	D343 Front	65M430-Up 79P527-Up		HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT i Spacer Plated Turbocharged	ncluded 343071		
	Engine 3306 Rear Engine	64M198-381 91N1-563 92N1-232		D.I. Engine Non Spacer Plated Turbocharged P.C. Engine * Order Aftercooler Gasket Kit Separately if Required	306131*	306132*	306133*
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*
637B 637D	3408 Front Engine			* Order Aftercooler Gasket Kit Separately if Required		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
	3306 Rear Engine	20W1-Up 21W1-Up 22W1-Up 23W1-Up 4JB1-Up	8Z1-Up	Single Head Replacement Set Spacer Plated Turbocharged D.I. Engine * Order Aftercooler Gasket Kit Separately if Required	306421*	306412*	408014 306413*
637E	3408 Front Engine	1FB1-659 1JB1-Up	48W19968-Up	D.I. Engine	408141	408142	408143
		1FB1-Up 7CB1-Up	99C1-Up	HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT inclu	408371 uded		408373
	3306 Rear Engine	1HB1-Up 1LB1-Up 7CB1-Up	8Z1-Up	Spacer Plated Turbocharged D.I. Engine * Order Aftercooler Gasket Kit Separately if Required	306421*	306412*	306413*
637F	C18	DFG1-Up	RHX1-Up	Includes Fuel Injector Seals	C18021NLS	C18022NLS	C18023

	PPLICATION INFO	ORMATION gine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD S	SET
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		346013WOH	G
				Single Head Replacement Set			346014WOH0	G
				Fuel System Rebuild Set			346009	
				Cyl Block Repair Shim Set			346099	
650B	D346B Front Engine	58K1-Up		60 Degree V Engine	346011WOHGNLS		346013WOH	G
				Single Head Replacement Set			346014WOH0	G
				Fuel System Rebuild Set			346009	
				Cyl Block Repair Shim Set			346099	
651B	D346B Front Engine	67K1-Up		60 Degree V Engine	346011WOHGNLS		346013WOH	G
				Single Head Replacement Set			346014WOH0	G
				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	HEUI (Hydraulic Electronic Unit Injector) O-Rings are NO	412371		412373 41237	74*
657B	D346B Front Engine	68K1-Up		60 Degree V Engine	346011WOHGNLS		346013WOH	G
				Single Head Replacement Set			346014WOH0	G
				Fuel System Rebuild Set			346009	-
				Cyl Block Repair Shim Set			346099	
	D343 Rear Engine	47M91-Up 53K638-Up	52K1-Up	Spacer Plated Engine	343031*		343033	
				* Contains 5S3903 Silicone Lip Rear Crankshaft Seal	l Only			
				Fuel System Rebuild Set			343059	
657E	3412 Front Engine	90Z1-Up 91Z1-Up	73W3857-Up		412081	412082	412083	
	3408 Rear Engine	86Z1-Up	48W19999-Up		408141	408142	408143	
				HEUI (Hydraulic Electronic Unit Injector) O-Rings are NO	T included			
657E		6PR1-Up	99C1-Up		408371		408373	
	3408E	7KR1-Up	5301-0p		100011		-100010	
657E	3412E	6TR1-Up 5YR1-Up	80M1-Up	HEUI (Hydraulic Electronic Unit Injector) O-Rings are NO	412371 T included		412373	412374
657G		A4G1-Up						
	C18	W1B1-Up W1C1-Up	RHX1-Up	Includes Fuel Injector Seal	C18091NLS	C18092NLS	C18093	
660B	D346B Front Engine	58K 1-Up		60 Degree V Engine	346011		346013	

	PPLICATION INF , Serial #, and En	ORMATION gine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
				Fuel System Rebuild Set			346009
				Cyl Block Repair Shim Set			346099
666B	D346B Front Engine	66K 1-Up		60 Degree V Engine	346011		346013
				Single Head Replacement Set			346014
				Fuel System Rebuild Set			346009
				Cyl Block Repair Shim Set			346099
	D343 Rear Engine	20G242-Up	52K1-Up	Spacer Plated Engine	343031*		343033
				* Contains 5S3903 Silicone Lip Rear Crankshaft Seal Only			
				Fuel System Rebuild Set			343059
) SERIES	OFF HIGHWAY TRUC	KS, QUARRY TRUCKS, CO	AL HAULERS, AND WH				
740	C11	B1M 1-Up	RSE 1-Up		C11011NLS	C11012NLS	C11013
		•	TXE 1-Up				
768C	3408	2X1-Up	48W1-Up		408071	408072	408073
769B				Spacer Plated			
	D343	99F1792-Up	52K1-Up	Turbocharged	343051*	343052	343053
				P.C. Engine			
				* Note: Rear Crankshaft Seal Not Included			040050
7600	2400	11/1	40\//1.1.1m	Fuel System Rebuild Set	409074	400070	343059
769C 769D	<u>3408</u> 3408	1X 1-Up BBB1-Up	48W1-Up 5JJ1-Up		408071 In Development	408072	408073
769D 769D	3406	5TR-Up	5JJ I-Ob		in Development		
1090	3408	5SS1-Up	99C1-Up		408351		408373
		388 I-0p		HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT inclu	ded		
771C	3408	3BJ 1-Up	48W37000-Up		408071		
771D	3408E	6JR 1-Up	99C1-Up		408351		408373
	0.002		0001.00	HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT inclu			100010
771D	3408	BCA1-Up	5XD1-Up	······································	In Development		
772	D240D	80S1-Up	•	60 Degree V Engine	•		240022000110
	D346B	11S1-Up		Head Gskt Not Included	346031WOHGNLS		346033WOHG
				Cyl Block Repair Shim Set			346099
772B	3412	64W1-Up	73W1-Up		412061	412062	412063
773	D346B	63G1-Up	73X1-Up	60 Degree V Engine Head Gskt Not Included	346031WOHGNLS		346033WOHG
		63W1-Up		Cyl Block Repair Shim Set Fuel System Set			346099 346009
773B	3412	63W 1-Up	73W1-Up		412061	412062	412063
773D		7ER1-Up				712002	
	3412	7CS1-Up	80M1-Up	Includes Fuel Injector SealS	412361		412373
				Single Head Replacement Set			412374
				HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT inclu	ded		
773E	3412	BDA1-Up	5JJ4562-Up	DOES NOT INCLUDE 8 OF 1007401 EXHAUST MANIFOLD SEGMENT SEAL OR AFTERCOOLER GASKETS	412021NLS	412022NLS	412023
773	C27	EED1-Up EXD1-Up	EHX1-Up		C27031NLS	C27032NLS	C27033
775B	3412	7XJ1-Up	73W1-Up		412061	412062	412063
773E	3412	KPH1-Up	ASK1-Up KEG1-Up		412191NLS	412192NLS	412193
		6KR1-Up	80M1-Up	Includes Fuel Injector SealS	412361		412373
775D	3412				112001		12010
	3412	8AS1-Up	oomr op				
	3412			*Single Head Replacement Set			412374*
	3412		comit op	*Single Head Replacement Set HEUI (Hydraulic Electronic Unit Injector)			412374*

(Vehicle, S	PLICATION INF Serial #, and E	FORMATION ngine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
776	D348	14H1-Up	98S1-Up	Both Filter Groups Head gasket Not Included	348011WOHGNLS		
				Cyl Block Repair Shim Set			348099
776B	3508	6JC1-Up	99W1-Up		508011		508013
		•	'	Single Head Replacement Set			508014
776C	3508	2TK1-Up	7YG1-Up		508021		508023
				Single Head Replacement Set			
				DOES NOT INCLUDE 6V6640 GASKET MAKER FOR REAR COVER			508024
776D	3508B	5ER1-Up	2GR1-Up	EUI Engine	508121		508123
		·		Non-ceramic Exhaust Manifolds Single Head Replacement Set			508124
777				Both Filter Groups			506124
	D348	84A1-Up	98S1-2685	Head gasket Not Included	348011WOHGNLS		
				Single Head Replacement Set Head Gskt Not Included			348014WOHG
				Cyl Block Repair Shim Set			348099
777	D348	84A1-Up	98S2686-Up	· · ·			
				Single Head Replacement Set Head Gskt Not Included			348024WOHG
777B	3508	4YC1-Up	99W1-Up		508011		508013
				Single Head Replacement Set			508014
777B	3508	3NF1-Up	99W1-Up		500004	In Development	508023
777C	3508	4XJ 1-Up	7YG1-Up	Single Head Replacement Set	508021		508023
				DOES NOT INCLUDE 6V6640 GASKET MAKER FOR REAR COVER			508024
777D				EUI Engine			
me	3508B	3PR 1-Up	2GR1-Up	Non-ceramic Exhaust Manifolds	508121		508123
				Single Head Replacement Set			508124
777D	3508B	JDN1-Up	FKR1-Up		508091NLS		508093
	3306B	C8T1-Up			50609 INLS		200092
777G	C32	RDR1-UP	FHS1-UP		C32051NLS	C32052NLS	C32053
		TNM1-Up TNM1-Up	5704 UD				
777G 777F	C32	JRP1-UP	FZS1-UP		C32051NLS	C32052NLS	C32053
1116	C32	JXP1-UP	LJW1-UP		C32041NLS	C32042NLS	C32043
784B	3512	5RK 1-Up	4WJ1-Up		512051		512053
				Single Head Replacement Set			508024
785	3512	8GB 1-Up	96Z1-Up	5	512051		512053
785B	3512	6HK 1-Up	4WJ1-Up		512051		512053
785C	3512	1HW 1-Up	8BR 1-Up		512061		512063
785D		DMC 1-Up					
	3512	M4J 1-Up	B7F 1-Up		512081NLS		512083
789	3516	MSY 1-Up 9ZC 1-Up	5171 Llm		516051		516053
109	3010	920 I-OP	54Z1-Up	Single Head Replacement Set	1,0001		516053
789B	3516	7EK 1-Up	2PK1-Up	Single nead Replacement Set	516051		516053
	0010		21 I.IOP	Single Head Replacement Set	010001		508024
789C	3516B	2BW1-UP	7TR1-Up	J	516181NLS		516183
793	3516	3SJ1-Up	54Z1-Up			In Development	
793B	3516	1HC1-Up	2PK1-Up			In Development	
793C	3516B	4AR1-Up	7TR1-Up	EUI Engine	516171		516173
	00100	4GZ1-Up	γ1111-0μ	Ceramic Exhaust Manifolds	0.0171		
		A 775 / / I · · ··		Single Head Replacement Set			516174
793C	3516B	ATY1-UP CBR1-UP	8WM1-UP		516181NLS		516183

		FORMATION	ENGINE SERIAL #		REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
0 SERIES C	OMPACTORS AN	D WHEEL TRACTORS						
814 815	3306	90P1-202 91P1-527			Non Spacer Plated Turbocharged	306221	306222	306223
816 814		57U1-197 14R1-Up	3N1-79762		P.C. Engine Non Spacer Plated	000004		000000
815 816 814	3306	15R1-Up	49V1-24220		Turbocharged P.C. Engine	306231	306232	306233
815 816	3306	14R1-Up 15R1-Up	3N79763-Up		Spacer Plated Turbocharged P.C. Engine	306241	306242	306243
814B 815B 816B	3306	15Z1-Up 16Z1-Up 17Z1-Up	8Z1-Up		Spacer Plated Turbocharged D.I. Engine * Order Aftercooler Gasket Kit Separately if Required	306251	306252	306253
814F 815F 816F	3176C	BGF1-Up BMR1-Up	3PD1-Up		Straight Style Head Gasket	176021STRNLS	176022STRNLS	176023STR
824B 825B 826B	D343	36H811-Up 43N1-Up 58U1-Up	52K1-Up		Spacer Plated Turbocharged P.C. Engine * Note: Rear Crankshaft Seal NOT included	343021*		343023
					Fuel System Rebuild Set			343059
824C 825C 826C	3406	85X1-Up 86X1-Up 87X1-Up	70V5389-Up Up	11N1-	Spacer Plated Turbocharged Non Aftercooled Engine W/19 Bolt Flywheel Housing	406011	406012	406013
					Fuel Pump Installation Set			406039
824C 825C 826C	3406	85X1194-Up 86X731-Up 87X587-Up	70V21372-Up 11N1-Up		Spacer Plated Turbocharged Non Aftercooled Engine W/19 Bolt Flywheel Housing	406231	406232	406233
				-	Fuel Pump Installation Set			406039
824C 825C 826C	3406	85X1194-Up 86X731-Up 87X587-Up	70V21372-Up 11N1-Up		Spacer Plated Turbocharged Non Aftercooled Engine W/24 Bolt Flywheel Housing	406331	406232	406233
		85X		-	Fuel Pump Installation Set			406039
824G 825G 826G	3406	4SN1-Up 6RN1-Up 7LN1-Up	41Z1-Up		Spacer Plated Turbocharged Aftercooled Engine W/24 Bolt Flywheel Housing	406331	406332	406333
				-	Fuel Pump Installation Set			406039
824G 825G 826G	3406E	AWW1-Up AXB1-Up AYH1-Up	BKN1-Up		Spacer Plated Turbocharged Engines	406371	406372	406373
834B	3408	7BR 1-Up	99C1-Up		חבטו (חימומטווג בופטוטווג טווג וווןפטטו) ט-תוועט מופ ועט ו	408351		408353
834H	C18	BXD1-U	RHX1-Up		Includes Fuel Injector Seal	C18101NLS	C18102NLS	C18103
836	3408	3RL1-Up	48W1-Up				In Development	
836C	3408	7FR1-Up	99C1-Up			408351		408353
836H	C18	BXD1-Up	RHX1-Up		Includes Fuel Injector Seal	C18101NLS	C18102NLS	C18103
844	3412	2KZ 1-Up	80M1-Up	•	Single Head Replacement Set	412351		412373 412374
					in all she al			

(Vehicle, S	PLICATION IN Serial #, and E	FORMATION ngine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
854G	3508B	1JW 1-Up	2GR1-Up	EUI Engine Non-ceramic Exhaust Manifolds	508121		508123
854K	C32	H8M1-UP	MHM1-UP	Single Head Replacement Set	C32031NLS	C32032NLS	508124 C32033
CB434	3114	<u>H9K1-UP</u> 97Z1-Up	MZM1-UP 3TF218-Up	Dry Rear Housing	114021	114012	114013
HEEL TYPE				,			
910	3204	80U1-Up 40Y1-Up 41Y1-Up	45V1-32984 45V1-33060	Non Turbocharged P.C.& D.I. Engines	204011	204012	204013
910	3204	40Y1-Up 41Y1-Up	45V32985-39886 45V33061-40043	Non Turbocharged D. I. Engine	204021	204022	204023
910	3204	40Y1-Up 41Y1-Up	45V38867-Up 45V40044-UP	Non Turbocharged D. I. Engine	204061	204062	204063
G910	3204	3SD1-Up 8GB1-Up	45V53573-Up	Non Turbocharged D. I. Engine	204061	204062	204063
910E	3114	1SF1-1103	2ZF1-Up	Dry Rear Housing	114021	114012	114013
910F	3114	1SF1104-Up	2ZF1-Up	Wet Rear Housing	114011	114012	114013
916	3204	2XB1-Up 9WB1-IP	45V39562-Up 7YJ 1-Up	Turbocharged D.I. Engines	204041	204042	204043
G916	3204	5GB1-Up	45V39562-Up	Turbocharged D.I. Engines	204041	204042	204043
918F	3114	3TJ1-Up 2CK1-Up 5DL1-Up	2FG1-Up 2ZF1-Up	Wet Rear Housing	114011	114012	114013
920	3304	41J1-2576 62K1-4605		Non Spacer Plated Non Turbocharged P.C. Engine	304011	304012	304013
920	3304		43V1-18853 48V1-52803 78P1-47087	Non Spacer Plated Non Turbocharged P.C. Engine	304031	304032	304033
920	3304		43V18854-Up 48V52804- Up 78P47088-Up	Spacer Plated Non Turbocharged P.C. Engine	304051	304052	304053
924F	3114	4YN1-Up 5NN1-Up 6MN1-Up 7PN1-Up	97Z1-Up 2ZF1-Up 2FG1-Up	Wet Rear Housing	114011	114012	114013
926 926E	3204	94Z1-Up 4NB1-Up	45V39562-Up	Turbocharged D.I. Engines	204041	204042	204043
G926	3204	3TD1-Up 1SD1-Up	45V39562-Up	Turbocharged D.I. Engines	204041	204042	204043
928F	3116	2XL1-Up 7YM1-Up 8AK1-Up	98Z1-Up 1CK1-Up 4TF1-Up		116021		116023
928G		7SR1-Up 6XR1-Up	98Z1-Up 1CK1-Up 4TF1-Up		116021		116023
930	3304	79J1-2223 41K1-3207		Non Spacer Plated Non Turbocharged P.C. Engine	304011	304012	304013
930	3304		43V1-18890 48V1-52799 78P1-45003	Non Spacer Plated Non Turbocharged P.C. Engine	304031	304032	304033
930	3304		43V18891-UP 48V52800-Up 78P45004-UP	Spacer Plated Non Turbocharged P.C. Engine	304051	304052	304053

	PLICATION IN Serial #, and E	FORMATION	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
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 78P47088-Up	Non Spacer Plated Turbocharged P.C. Engine	304041	304042	304043
950	3304		43V18956-Up 48V52798-Up 78P47088-Up		304071	304072	304073
950B	3304	31R1-Up 63R1-603 65R1-3087 22Z1-3188	7Z1-Up 9Z-Up 12Z1-Up	Spacer Plated Turbocharged D.I. Engine	304081	304082	304083
950E	3304	63R6054-Up 65R3088-Up 22Z3189-Up	7Z1-Up 9Z-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	1CK1-Up 4TF1-Up 98Z1-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	1CK1-Up 4TF1-Up 98Z1-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

		FORMATION	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
966C		30K1-1624		Non Spacer Plated			
	3306	76J1-6388		Turbocharged	306221	306222	306223
		42J1-3565		P.C. Engine			
966C		76J6389-Up		Non Spacer Plated			
	3306	42J3566-Up	3N1-79762	Turbocharged	306231	306232	306233
		4253566-0p		P.C. Engine			
966C			3N79763-Up	Spacer Plated			
966D	3306		44V22485-Up	Turbocharged	306241	306242	306243
			44V22403-0p	P.C. Engine			
966C				Spacer Plated			
	3306		8TD1-Up	Turbocharged	306251	306252	306253
				D.I. Engine			
				* Order Aftercooler Gasket Kit Separately if Required			
966D		35S1-2522	8Z1-Up	Spacer Plated			
	3306	94X1-6488	10Z1-Up	Turbocharged	306251	306252	306253
		99Y1-5314	13Z1-Up	D.I. Engine			
				* Order Aftercooler Gasket Kit Separately if Required			
966E		35S2523-Up	8Z1-Up	Spacer Plated			
	3306	94X6489-Up	10Z1-Up	Turbocharged	306251	306252	306253
		99Y5315-Up	13Z1-Up	D.I. Engine			
				^o			
				* Order Aftercooler Gasket Kit Separately if Required			
966F		1SL1-Up					
	0000	3XJ1-Up	8Z1-Up	Spacer Plated	000054	000050	000050
	3306	4YG1-Up	10Z1-Up	Turbocharged	306251	306252	306253
		8BG1-Up	13Z1-Up	D.I. Engine			
		9YJ1-Up		* Onder Afferenselen Oselest Kit Oserenstele if De meined			
				* Order Aftercooler Gasket Kit Separately if Required			
966G	0000	3PW 1-Up	4074.11	Spacer Plated	000054	200050	000050
	3306	9RS 1-Up	13Z1-Up		306251	306252	306253
966G		AWY1-Up		D.I. Engine			
9000		AXV11-Up					
		AWZ1-Up					
	3176C	AXL1-Up	3PD1-Up	Straight Style Head Gasket	176031STRNLS	176032STRNLS	176033STR
		ANT1-Up					
		ANZ1-Up					
966H		·					
00011		A6D1-Up					
		A6G1-Up					
		A6J1-Up					
	C11	BJ61-Up	RSX1-Up		C11001NLS	C11002NLS	C11003
		BS61-Up	TXE1-Up				5
		FMW1-Up					
		RYF1-Up					
		TAL1-Up					
970F		7PL1-Up	8Z1-Up				
	3306	7SK1-Up	10Z1-Up		306251	306252	306253
		9JK1-Up	13Z1-Up				
		·	·	* Order Aftercooler Gasket Kit Separately if Required			
972G	2200	1EW 1-Up	407 4 11-	* Order Aftereopler Cooket Kit Senerately if Dominant	200054	206252	200050
	3306	6AW 1-Up	13Z 1-Up	* Order Aftercooler Gasket Kit Separately if Required	306251	306252	306253
972H		·	A7D1-Up				
	C12		A7G1-Up		C13001NIL C	C13092NIL 6	C12002
	C13	MHX 1-Up	A7J1-Up	WITH MLS (MULTIPLE LAYER STEEL) HEAD GASKET	C13081NLS	C13082NLS	C13083
			LCC1-Up		_		
980B				Non Spacer Plated			
	3306	89P1-2167		Turbocharged	306131	306132	306133
				P.C. Engine * Order Aftercooler Gasket Kit Separately if Required			

	PLICATION INI Serial #, and E	FORMATION ngine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
980B				Non Spacer Plated	••••••		
			3N1-79762	Turbocharged	306171	306172	306173
	3306			P.C. Engine			
				Converted to Spacer Plated			
				Turbocharged	306181	306182	306183
				P.C. Engine			
				* Order Aftercooler Gasket Kit Separately if Required			
980C		63X1-Up	70V4683-Up	Spacer Plated			
	3406	2XD1-Up	11N1-1475	Turbocharged	406011	406012	406013
		13B300-Up	81Y1-Up	Non Aftercooled Engine			
			-	W/19 Bolt Flywheel Housing Fuel Pump Installation Set			406039
980C				Spacer Plated			406039
9000				Turbocharged			
	3406	63X 6575-Up	11N1476-Up	Non Aftercooled Engine	406331	406332	406333
				W/24 Bolt Flywheel Housing			
				Fuel Pump Installation Set			406039
980F		3HK-Up		Spacer Plated			100000
	0.400	8CJ1-Up		Turbocharged	10000	100000	(00000
	3406	8JN1-Up	11N1-Up	Non Aftercooled Engine	406231	406232	406233
		5XJ1-Up		W/19 Bolt Flywheel Housing			
				Fuel Pump Installation Set			406039
980F		3HK-Up		Spacer Plated			
	3406	8CJ1-Up	11N1-Up	Turbocharged	406331	406332	406333
	3400	8JN1-Up	пит-ор	Non Aftercooled Engine	400331	400332	400000
		4RN1-Up		W/24 Bolt Flywheel Housing			
				Fuel Pump Installation Set			406039
980G		2KR1-Up		Spacer Plated			
	3406	9CM1-Up	41Z1-Up	Turbocharged	406331	406332	406333
		2SR1-Up		Aftercooled Engine			
		-		W/24 Bolt Flywheel Housing Fuel Pump Installation Set			406039
980G		AWH1-Up		Fuel Fullip Installation Set			400039
3000	3406E	AXG1-Up	BET1-Up	Spacer Plated Turbocharged Engines	406381	406382	406383
980H		JMS 1-Up					
00011		KZL 1-Up		Does Not Include Oil Pan Isolation Seal			
	C15	MHG 1-Up	LHX 1-Up		C15111NLS	C15112NLS	C15113
		A8J 1-Up		Fuel Injector O-Rings Included			
988				Spacer Plated			
	D343	87A 3093-Up		Turbocharged	343041*		343043
				P.C. Engine			
				* Note: Rear Crankshaft Seal NOT included			
				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	חבטו (חצעומעווג בופגנוטווג טווג ווופגנטו) ט-תוועט מופ ועט ו	408361		408363
988H		BXY1-Up	RHX1-Up	issluded	C18011NLS	C18012NLS	C18013
990	C27	BWX1-Up	EHX2416-Up	Includes Fuel Injector Seals	C27041NLS	C27042NLS	C27043
990	3412	4FR1-Up	80M1-Up		412351	ULI VILINLU	412373
	UTIL		oomr-op	Single Head Replacement Set	712001		412373
				Single Head Replacement Set			11207 1
990B	3412	7HK	73W	نمهريامور		In Development	
990D	3412	BCR1-Up	5JJ4562-Up	CLUDE 8 OF 1007401 EXHAUST SEGMENT SEAL AFTERCOOLER GASKETS N	412021NLS	412022NLS	412023
992	D348	25K1-1169	•				
				Single Head Replacement Set Head Gskt Not Included			348014WOHG
				Cyl Block Repair Shim Set			348099

(Vehicle, S	PLICATION INF Serial #, and E	ORMATION	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SE
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	Circula Line d Depleterement Oat	516051		516053
994D	3516	3TZ1-Up	7TR1-Up	Single Head Replacement Set		In Development	508024
ACK TYPE		0121-00	/11(1-0p				
931		8N1-Up					
	2004	10N1-Up		Non Turbocharged	004044	004040	004040
	3204	78U1-Up	45V1-Up	P.C.& D.I. Engine	204011	204012	204013
		81U1-Up		, and the second s			
931B		25Y1-Up	45V1-32893	Non Turbocharged	204011	204042	204042
	3204	26Y1-Up	4501-32693	Non Turbocharged	204011	204012	204013
		29Y1-Up	45V1-32939	P.C.& D.I. Engine			
		30Y1-Up	4501-32939	P.C.& D.I. Eligilie			
931B		25Y1-Up	45V32894-40125	Non Turbocharged	204021	204022	204023
	3204	26Y1-Up	+0102004-40120	Non raiboonargeu	204021	204022	204020
		29Y1-Up	45V32940-40209	D.I. Engine			
		30Y1-Up		2 2			
931B		25Y1-Up	45V40126-Up	Non Turbocharged	204061	204062	204063
	3204	26Y1-Up		· · · · · · · · · · · · · · · · · · ·			
		29Y1-Up	45V40210-Up	D.I. Engine			
0040		30Y1-Up	•				
931B	3204	4SC1-Up 6EC1-Up	45V41078-Up	Non Turbocharged D.I. Engine	204061	204062	204063
931C		2AK1-Up		D.I. Engine			
3310		2BJ1-Up					
		5LJ1-Up					
		6RF1-Up		Non Turbocharged			
	3204	6AJ1-Up	45V41078-Up	D.I. Engine	204061	204062	204063
		7HF1-Up					
		8AF1-Up					
		9AJ1-Up					
935B	3204	3DF 1-Up	45V1-Up		204041		
935C	3204	5DJ1-Up 8CF1-Up	45V1-Up		204041		
941			•	Non Spacer Plated			
941B	3304	70H1-2941		Non Turbocharged	304131	304012	304013
		80H1-3883		P.C. Engine			
941			43V1-Up	Non Spacer Plated			
941B	3304		48V1-Up	Non Turbocharged	304031	304032	304033
			78P1-47087	P.C. Engine			
941	000 ·			Spacer Plated	00 · · ·	00/	· · · ·
941B	3304		78P47088-Up	Non Turbocharged	304051	304052	304053
				C. Engine			

	PLICATION IN Serial #, and E	FORMATION	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
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 48V38780-Up 78P46321-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
		op		* Order Aftercooler Gasket Kit Separately if Require	ed		

	LICATION IN erial #, and E	FORMATION ngine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
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 49V242 Up	21. 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
AGRICULTURA	L TRACTORS						
CH65	3306	7YC1-1899	8Z1-Up	Spacer Plated Aftercooled D.I Engine	306451		306453
CH65B	3306	7YC 1900-Up	8Z1-Up	Spacer Plated Aftercooled D.I Engine	306451		306453
CH65C	3306	2ZJ1-1679	8Z1-Up	Spacer Plated Aftercooled D.I Engine	306451		306453
CH65D	3306	2ZJ 1680-Up	8Z1-Up	Spacer Plated Aftercooled D.I Engine	306451		306453
STEIGER	3306		66D12370-26831	Non Spacer Plated P.C. Engine * Order Aftercooler Gasket Kit Separately if Required	306191*		
STEIGER	3306		66D26832-Up	Spacer Plated P.C. Engine * Order Aftercooler Gasket Kit Separately if Required	306211*		
STEIGER	3306		64Z1-Up	Spacer Plated Aftercooled D.I Engine	306261		
STEIGER	3406		6TB3571-Up	Spacer Plated Aftercooled D.I Engine W/19 Bolt Flywheel Housing	406211		
ARTICULATED	TRUCKS			Fuel Pump Installation Set			406039
D25C	IKUGKS			Spacer Plated			
D25D	3306	9YC1-Up 1HK1-Up	7JB1-Up 13Z1-Up	Turbocharged or Turbocharged/Aftercooled D.I. Engine * Order Aftercooler Gasket Kit Separately if Required	306361	306362*	306363*
D30C D30D	3306	7ZC1-Up 3AJ1-Up	7JB1-Up 13Z1-Up	Spacer Plated Turbocharged or Turbocharged/Aftercooled D.I. Engine * Order Aftercooler Gasket Kit Separately if Required	306361	306362*	306363*

	PLICATION IN Serial #, and E	FORMATION ngine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD SET
D35C				Spacer Plated	OVERITAGE		
				Turbocharged			
	3306	2GD 1-Up	7JB1-Up	or	306361	306362*	306363*
		·	13Z1-Up	Turbocharged/Aftercooled			
				D.I. Engine			
				* Order Aftercooler Gasket Kit Separately if Required			
D35HP	3406	3FD1-Up	6TB1-Up	· · ·		In Development	
		-		Fuel Pump Installation Set		•	406039
D40D	0.400		70V1-Up				
	3406	2JJ	11N1-Up			In Development	
				Fuel Pump Installation Set			406039
D250B				Spacer Plated			
D250E				Turbocharged			
	3306	5WD1-Up	7JB1-Up	or	306361	306362*	306363*
		5TN1-Up	13Z1-Up	Turbocharged/Aftercooled		000002	
				D.I. Engine			
				* Order Aftercooler Gasket Kit Separately if Required			
D300B				Spacer Plated			
D300D				Turbocharged			
03000	3306	4SD1-Up	7JB1-Up	or	306361	306362*	306363*
	5500	5MG1-Up	13Z1-Up	Turbocharged/Aftercooled	500501	300302	300303
				D.I. Engine			
				* Order Aftercooler Gasket Kit Separately if Required			
Dagar							
D300E				Spacer Plated			
	0000		7JB1-Up	Turbocharged	000004	000000*	000000t
	3306	7FN 1-Up	13Z1-Up	or	306361	306362*	306363*
			1	Turbocharged/Aftercooled			
				D.I. Engine			
				* Order Aftercooler Gasket Kit Separately if Required			
D350C				Spacer Plated			
D350D	0000	8XC1-Up	7JB1-Up	Turbocharged	000004	000000*	000000*
	3306	9RF1-Up	13Z1-Up	or	306361	306362*	306363*
			1	Turbocharged/Aftercooled			
				D.I. Engine			
				* Order Aftercooler Gasket Kit Separately if Required			
D350E	3406	9LR1-Up	41Z1-Up			In Development	
				Fuel Pump Installation Set			406039
D350E	3406E	2XW1-Up	9AP1-1799	Spacer Plated Turbocharged Engines	406311	406312	406313
D400	3406	1MD1-Up	6BT1-Up			In Development	
				Fuel Pump Installation Set			406039
D400D	3406	8TF1-Up	70V1-Up			In Development	
D400E	3406	9LR1-Up	41Z1-Up			In Development	
				Fuel Pump Installation Set			406039
D400E	3406E	8PS1-Up	9AP1-1799	Spacer Plated Turbocharged Engines	406311	406312	406313
		APF1-Up		Opader rated rubbonarged Engines	-100011		-100010
D550	3408	4RD1-Up	67U1-Up			In Development	
D550B	3408	5ND1-Up	67U1-Up			In Development	
ELEHANDLE							
RT80	3114	1GJ1-Up	2FG1-Up	Dry Rear Housing	114021	114012	114013
TEGRATED	TOOLCARRIERS						
	2004	2YC1-Up	45)/4 11-		004044	204040	004040
IT12	3204	4NC1-Up	45V1-Up		204041	204042	204043
IT12		1KF1-819	2ZF1-Up	Wet Rear Housing	114011	114012	114013
	3114	1111-019		<u> </u>			
IT12B	3114 3114			Wet Rear Housing	114011	114012	114013
IT12B IT12F	3114	1KF820-Up	2ZF1-Up	Wet Rear Housing Wet Rear Housing	<u>114011</u> 114011	<u>114012</u> 114012	<u>114013</u> 114013
IT12B IT12F IT14B	3114 3114	1KF820-Up 3NJ1-Up	2ZF1-Up 2ZF1-Up	Wet Rear Housing	114011	114012	114013
IT12B IT12F	3114	1KF820-Up	2ZF1-Up				

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

IPD Parts Engine Applications

CATERPILLAR®

C-Series - C6, C7, C9, C10, C12, C13, C15, C18, C27, C32 300 Series, 3000, 3100, 3200, 3300, 3400, 3500, 3600

CUMMINS®

ISX / QSX (dual cam), ISX15 / QSX15 (single cam), and K Series (19L, 38L, 50L)

DETROIT DIESEL® DD15 Series, D60 Series

WAUKESHA® VHP Series (7042/7044)



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