

IPDStyle 1-2-3[™] GASKET SETS January 2020

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

IPD HEAVY-DUTY GASKETS



IPD QUALITY, INNOVATION, SERVICE & SUPPORT

- Heavy-duty, performance tested materials
- Engineered to meet or exceed OEM performance levels
- Latest technology for enhanced reliability, longevity, performance
 - o 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
 - o 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





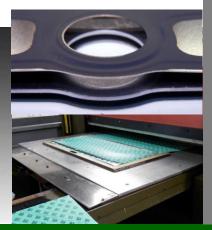
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IPDStyle 1-2-3 Complete Gasket Set Catalog

APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
ON HIGHWAY TRUCK ENGINES			00000111	000010	000010
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	36B1-Up				
1145	97B1-Up	All Engines		208012	208013
1150 1160	96B1-Up	C C C C C C C C C C C C C C C C C C C			
1160	95B1-Up	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 9YN 1-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	1WM1-26507	Single Head Replacement			208034
Truck	4ES1-Up	2 valves per cylinder	3126011	3126012	3126013
3126 Truck	6PZ1-Up 8SC1-Up 9SZ1-Up CKM1-Up 7AS1-Up	3 valves per cylinder 1662905 Oil Pan Isolation Seal Not Included.	3126021	3126022	3126023
3126 Truck	8YL1-Up		3126061	3126022	3126023
3126E Truck	HEP1-Up	With oil pan gasket & dry rear seal	3126091	3126092	
	HEP1-Up	With oil pan isolation seal & dry rear seal	3126111	3126112	3126113
3306		Non Spacer Plated Engine * Order Aftercooler Gasket Kit Separately if Required	306051	306052*	306053*
3306	76R273-Up	P.C. Turbocharged * Order Aftercooler Gasket Kit Separately if Required	306081	306082*	306083*
3306B	63Z1-Up 5KD1-Up	Directed Injected Turbocharged JWAC * Order Aftercooler Gasket Kit Separately if Required	306091	306092*	306093*
3306B	63Z1-Up 5KD1-Up	Directed Injected Turbocharged ATAAC	306441	306442	306443
3306C	7RJ1-Up 9TL1-Up	D.I. Turbocharged	306441	306442	306443

APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
3406A	92U1-5943	W / Lube Thru Cyl Head Studs	406041	406042	406043
3406A	92U5944-Up	·	406031	406032	406033
3406B	7FB1-Up 4MG1-Up	JWAC (Jacket Water Aftercooled)	406051	406052	406053
3406B	7FB1-Up 4MG1-Up 5KJ1-7799 8TC1-Up 3ZJ1-16181	ATAAC (Air to Air Aftercooled)	406061	406062	406063
3406C	3ZJ16182-60112 4CK846-Up 5KJ7800-Up	ATAAC (Air to Air Aftercooled) W/19 Bolt Flywheel Housing	406111	406112	406113
3406C	3ZJ60113 -Up	ATAAC (Air to Air Aftercooled) Non-Brake Saver W/Round Exhaust Ports	406271	406272	406273
3406C	8PN1-Up	ATAAC (Air to Air Aftercooled) Non-Brake Saver W/Round Exhaust Ports	406271	406272	406273
3406E	5EK1-Up 6TS1-Up 1LW1-Up 5DS1-Up 2WS1-Up	Includes Fuel Injector Seal Exhaust Manifold Gaskets Not Included	406461	406462	406463
3406E	1MM1-Up	Includes Fuel Injector Seal Exhaust Manifold Gaskets Not Included		406472NLS	406473
C7	WAX 1-Up SAP 1-Up KAL 1-Up	With Oil Pan Isolation Seal (1662905)	C70001	C70002	C70003
С7	WAX 1-Up SAP 1-Up KAL 1-Up	With Oil Pan Gakset (2613816)	C70011	C70012	C70003
C7	C7S 1-Up	With Oil Pan Isolation Seal (1662905)	C70021	C70022	C70023
C7	C7S 1-Up	With Oil Pan Gakset (2613816)	C70031	C70032	C70023
C9	9DG1-Up		C90001NLS	C90002NLS	C90003
C10	MBJ 1-Up	Straight Style Head Gasket	C10011STRNLS	C10012STRNLS	C10013STR
C10	2PN1-Up 8YS1-Up 3CS1-Up	Scalloped Style Head Gasket	C10001SCLNLS	C10002SCLNLS	C10003SCL
C10	2PN1-Up 8YS1-Up 3CS1-Up	Straight Style Head Gasket	C10001STRNLS	C10002STRNLS	C10003STR
C-12	9NS1-Up	Scalloped Style Head Gasket		C12002SCLNLS	C12003SCL
C-12	9NS1-Up	Straight Style Head Gasket		C12002STRNLS	C12003STR
C-12	2KS1-Up	Scalloped Style Head Gasket		C12022SCLNLS	C12003SCL
C-12	2KS1-Up	Straight Style Head Gasket		C12022STRNLS	C12003STR
C-12	MBL1-Up	Straight Style Head Gasket		C12032STRNLS	C12003STR
C-12	CPD1-Up	Straight Style Head Gasket		C12052STRNLS	C12003STR
C-12	1YN1-Up	Straight Style Head Gasket		C12012STRNLS	C12003STR

(Vehicle, S	LICATION INFORMATION erial #, and Engine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
C-12		1YN1-Up	Scalloped Style Head Gasket		C12012SCLNLS	C12003SCL
C-12			Contains 1260110 Front Seal & 7C1728 (Dry) Single Lip Rear Seal*	C12009		
C-12			Contains 1694166 Front Seal & 7C1728 (Dry) Single Lip Rear Seal*	C12019		
C-12			Contains 1260110 Front Seal & 1005421 (Wet) Double Lip Rear Seal*	C12029		
C-12			Contains 1694166 Front Seal & 1005421 (Wet) Double Lip Rear Seal*	C12039		
			*Use Kits Listed Above W/IPD Style InFrame Gasket Kit To Complete An C	Overhaul Set		
C13		JAM1-Up	(Dry) Single Lip Rear Seal	C13001NLS	C13002NLS	C13003
		5AM1-0p	(MLS) Multiple Layer Steel) Gasket	0100011120	OTOODZINEO	013003
C13		JAM1-Up	(Wet)Double Lip Rear Seal	C13011NLS	C13002NLS	C13003
			(MLS) Multiple Layer Steel) Gasket	CICCINCEO	0100021120	010000
C13		KCB1-Up	(Wet)Double Lip Rear Seal	C13021NLS	C13022NLS	C13023
		Ковтор	(MLS) Multiple Layer Steel) Gasket	0100211120	OTOGEENEO	010020
C13		KCB1-Up	(Dry) Single Lip Rear Seal	C13031NLS	C13022NLS	C13023
			(MLS) Multiple Layer Steel) Gasket	0.000	0100221120	0.0020
C13		LEE1-Up	(Dry) Single Lip Rear Seal	C13041NLS	C13042NLS	C13043
		06	(MLS) Multiple Layer Steel) Gasket	0.000.0020	0100121120	0.0010
C13		LEE1-Up	(Wet)Double Lip Rear Seal	C13051NLS	C13042NLS	C13043
		•	(MLS) Multiple Layer Steel) Gasket	0.000	0100121120	0.0010
C-15		6NZ1-Up	Does Not Include Oil Pan Isolation Seal ,Oil Pan Gasket or Exhasut Manifold			
		9NZ1-Up	Gaskets	C15001	C15002	C15003
		MBN1-Up	Fuel Injector O-Rings Included			
C-15		MXS1-Up	Does Not Include Oil Pan Isolation Seal ,Oil Pan Gasket or Exhasut Manifold			
		NXS1-Up	Gaskets	C15011NLS	C15012NLS	C15013
		BXS1-Up	Fuel Injector O-Rings Included			
C-15			Does Not Include Oil Pan Isolation Seal ,Oil Pan Gasket or Exhasut Manifold			
		EGH1-Up	Gaskets	C15021	C15022	C15023
			Fuel Injector O-Rings Included			
C-15			Does Not Include Oil Pan Isolation Seal ,Oil Pan Gasket or Exhasut Manifold			
		SDP1-Up	Gaskets	C15041NLS	C15042NLS	C15043
			Fuel Injector O-Rings Included			
C18			Does Not Include Oil Pan Isolation Seal or Oil Pan Gasket			
		MDP1-Up	Does Not Include Exhaust Manifold Gaskets	C18041NLS	C18042NLS	
			Fuel Injector O-Rings Included			
3408		28V1-427			408082	408083
3408		28V428-Up		408091	408092	408093
3406			Brake Saver Lines Kit			406009
B, C, & D						
3406		Non-Plated Pan	Bearing Roll In Kit			406019
3406		Plated Pan	Bearing Roll In Kit			406029
3406 A & B			haft seal, mounting gaskets & 4N1400 filter)			406028
3406 A & B	Water Pump Mounting Kit	(Includes only gaske	ets and seals to mount pump)			406018
3406	Fuel Pump Mounting Set (I	Includes only gaskets	s and seals to mount pump)			406039
A, B, & C			,			

	ON INFORMATION and Engine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
INDUSTRIAL AND MARIN	E ENGINES					
3114		1ZG1-Up				
	Industrial	5EF1-Up		114021	114012	114013
	Generator	5JG1-Up				
3116		6AF1-Up 1NJ1-Up				
		2SG1-Up				
	Industrial	2MR1-Up		116031		116023
	Generator	2WG1-Up				
		4PG1-Up				
3116	Marine	1SK		116041	In Development	116043
		4KG107-Up				
3126 3126	Industrial	3TR1-241	2 valves per cylinder	3126031	3126032	3126033
3120	Industrial	BEJ1-Up DCS 1-Up	3 valves per cylinder	3126041	3126042	3126043
3126	Marine	8NM1-Up	2 valves per cylinder	3126051	3126052	3126053
			Limited # of applications require a 1247331 turbo mntg seal which is not			
3126		9ZR1-Up	included in this set			
3120	Industrial	6MS1-UP	2 valves per cylinder	3126081	3126082	3126083
3145		65P1-Up				
		96M1-Up				
3150	Industrial	66P1-Up	Non Turbocharged Engine		208012	208013
0400	Generator	97M1-Up				
3160		67P1-Up 98M1-Up				
			Single Head Replacement Set			208014
3204	Industrial	7EB1-Up	Non Turbocharged	204071	204072	204073
3208NA	Industrial	2TB1-Up 90N1-Up	Spacer Plated			
3200NA	Generator	29A225-Up	Non Turbocharged Engine	208011	208012	208013
	Contractor	20/ <u>220</u> 0p	Single Head Replacement Set			208014
3208T	Industrial	3Z1-Up	Turbocharged Engine	208031	208032	208033
	Generator	30A210-Up		200001	200002	
2200114	Mariaa	75\/4_1.1m	Single Head Replacement Set	202044		208034
3208NA 3208T	Marine	75V1-Up 1Z1-Up	Non Turbocharged Engine Turbocharged	208041		208043
32001	Marine	75V1-Up	With Fabric Only Exhaust Manifold Gaskets	208051		208053
			Single Head Replacement Set			208054
3208T	Mariaa	474 11-	Turbocharged	200074*		
	Marine	1Z1-Up	With Fabric and Steel Exhaust Manifold Gaskets	208071*		208073*
			Single Head Replacement Set			208074*
		05 100 1 110 10	* If Aftercooler Gaskets Are Needed, Order 9X8569 Gasket Set			
3304	Industrial Generator	2B4364-11013 4B455-17153	Non Spacer Plated Turbocharged	304171*	304172*	304173*
	Generator	40400-17 100	* If Expansion Tank Gaskets Are Needed, Order 6V0621 Gasket Set			
3304	Industrial	504007 0000	Non Spacer Plated		004470*	004470*
	Generator	5B1387-2099	Turbocharged		304172*	304173*
3304	Industrial	2B11014-Up	Spacer Plated	304141*	304142*	304143*
	Generator	4B17154-Up	Turbocharged * If Expansion Tank Gaskets Are Needed, Order 6V0621 Gasket Set		00.11E	
3304		10E300-Up	II LAPANSION TAIN GASKETS ATE NEEDEU, OTUET OVUOZT GASKET SET			
	,	83Z1-Up				
	Industrial	3TC1-Up	Spacer Plated	304161*	304162*	304163*
	Generator	6YB1-Up	Turbocharged			
		1PS1-Up	* If Evenencian Tank Cookets Are Needed, Order 01/0004, Oc. 1, 10, 1			
			* If Expansion Tank Gaskets Are Needed, Order 6V0621 Gasket Set			

		ENGINE	REMARKS	OUT OF FRAME		CYL HEAD
(Vehicle, Serial #, and	Engine Designation)	SERIAL #		OVERHAUL	OVERHAUL	REPLACE
3306 (333C 4.75" Bore)	Industrial	66D1-Up	Non Spacer Plated Turbocharged or Non-Turbocharged P.C. Engines * Order Aftercooler Gasket Kit Separately if Required	306391*		
2200			* If Expansion Tank Gaskets Are Needed, Order 6V0621 Gasket Set			
3306	Industrial	66D1-Up	Spacer Plated Turbocharged or Non-Turbocharged P.C. Engines * Order Aftercooler Gasket Kit Separately if Required * If Expansion Tank Gaskets Are Needed, Order 6V0621 Gasket Set	306371	306372*	306373*
3306B	Industrial	7JB1-Up 5JC1-Up 8JJ1-Up 6PK1-Up 1CZ1-Up 64Z1-Up 85Z1-Up	Turbocharged Spacer Plated * Order Aftercooler Gasket Kit Separately if Required	306381	306382*	306383*
			* If Expansion Tank Gaskets Are Needed, Order 6V0621 Gasket Set			
3306	Marine	67D1-2863	Turbocharged Non Spacer Plated * Order Aftercooler Gasket Kit Separately if Required	306311	306312	306313
3306	Marine	67D2864-Up	Turbocharged Spacer Plated * Order Aftercooler Gasket Kit Separately if Required	306321	306322	306323
3306B	Marine	84Z1-Up	Turbocharged Spacer Plated	306331	306332	306333
67	la du atai a l		* Order Aftercooler Gasket Kit Separately if Required	070111	070110	070440
C7 C7	Industrial	JRA1-Up	Cingle Lin Deer Seel & Dry Exhaust Manifelde	C70111	C70112	C70113
C9	Industrial	JTF1-Up	Single Lip Rear Seal & Dry Exhaust Manifolds	C70121 C90071NLS	C70122	C70123
C9 C9	Industrial	MBD1-Up			C90072NLS	C90073
C9 C9	Industrial	JSC1-Up		C90081NLS	C90082NLS	C90083
C9 C12	Industrial Industrial	CLJ1-Up BDL1-Up	Straight Stlye Head Gasket 1095308 Isolation Seal Not Included* *See Truck Kits For Overhaul Kit Information	C90111NLS	C90112NLS C12042STRNLS	C90113 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		406121	406122*	406123*
			* If Aftercooler Gaskets Are Needed for 75Z, Order 1909861 Gasket Set			
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

(Veh	APPLICATION INFORMATION hicle, Serial #, and Engine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
3406C	Industrial Generator	6TB9857-Up 4RG1502-Up	W/19 Bolt Flywheel Housing	406021	406022	406023
3406C	Industrial Generator	6TB9857-Up	W/24 Bolt Flywheel Housing	406411	406412	406413
3406C	Industrial Generator	4ZR1-Up 8FS1-Up 1DZ1-Up	W/19 Bolt Flywheel Housing	406101	406022	406023
3406C	Industrial	3ER1-Up	Note: Rear Housing liquid gasket maker is Not included			
54000	Generator	1SS1-Up	W/24 Bolt Flywheel Housing	406151	406082	406083
3406A	Marine	91U1-484		406141		
3406A	Marine	91U721-Up		406131	406132	406133
3406B	Marine	4TB1-3481	Fuel Pump Installation Set	406081	406082	406083 406039
3406C	Marine	4TB3482-Up	W/19 Bolt Flywheel Housing Fuel Pump Installation Set	406081	406082	406083 406039
3406E	Gen Set	8AZ1-Up 1MZ1-Up	Spacer Plate Turbocharged Engine	406281	406282	406283
3406E	Industrial	9NN1-Up	Spacer Plate Turbocharged Engine	406291	406292	406293
3406E	Industrial	6BR1-Up	Spacer Plate Turbocharged Engine	406301	406302	406303
3406E	Marine	9WR1-Up	Spacer Plate Turbocharged Engine	406421	406422	406423
3406	Generator	2GG1-Up		406481NLS	406482NLS	406483
C15	Industrial	JRE1-Up	DOES NOT INCLUDE OIL PAN ISOLATION SEAL INJECTOR SEALS INCLUDED	C15031NLS	C15032NLS	C15033
C15	Industrial	BEM 1-UP	Injector Seals Included	C15061NLS	C15062NLS	C15063
C15	Generator	FFH1-Up	Injector Seals Included	C15081NLS	C15082NLS	C15083
C15	Generator	FSE1-Up	Injector Seals Included	C15101NLS	C15102NLS	C15103
3408	Industrial	67U1335-Up	,	408051	408052	408053
3408	Marine	99U1-584		408031	408032	408033
3408	Marine	99U585-4588	Single Head Replacement Set	408041	408042	408043 408044
3408	Industrial	78Z1-Up		408051	408052*	408053*
			If Aftercooler Gaskets Are Needed, Order 1247567 Gasket Set. If Expansion Tank Gasket Are Needed, Order 6V0237 Gasket Set.			
3408B	Marine	99U4589-Up	1TS With 10 Polt Elympool Housing	408041	408042	408043
3408C	Maille	1TS1-Up	1TS With 19 Bolt Flywheel Housing.	400041	400042	
			Single Head Replacement Set			408044
3412	Industrail Generator	38S1-16483 81Z1-14500	19 BOLT FLYWHEEL HOUSING	412011	412012	412013
			Single Head Replacement Set			412034
3412C	Industrail Generator	38S16484-Up 81Z14501-Up	19 BOLT FLYWHEEL HOUSING	412011	412012	412013
			Single Head Replacement Set			412034
3412C	Industrail Generator	2WJ1-Up 1EZ1-Up	With sequential Turbos (4 Turbos)	412011	412012	412013
		·	Single Head Replacement Set Supplementary Turbo Gasket Set			412034 412015
3412	Marine	60M1-Up 9BR1-Up	··· · · ·	412031	412032	412033
		obiti-op	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

	APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation	ENGINE ion) SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
C18	Generat		Does Not Include Exhaust Manifold Gaskets Includes Fuel Injector Seals	C18031	C18032	C18033
C18	Industri	al EJG1-Up	Does Not Include Oil Pan Isolation Seal, Oil Pan gasket Fuel Injector O-Rings Included	C18061	C18062	
C18	Industri	al WJH1-Up	Includes Fuel Injector Seal Exhaust Manifold Gaskets Not Included	C18071	C18072	C18073
C18	Generat	EFE1-Up EST1-Up	Does Not Include Oil Pan Isolation Seal, Oil Pan gasket or Exhaust Manifold Gaskets Fuel Injector O-Rings Included	C18081NLS	C18082NLS	C18083
C18	Marine	· · ·	Injector Seals Included	C18051NLS	C18052NLS	C18053
C18	Marine		Does Not Include Oil Pan Isolation Seal, Oil Pan gasket or Exhaust Manifold Gaskets Fuel	C18131NLS	C18132NLS	C18033
C18	Generat	CYG1-Up	Injector O-Rings Included Injector Seals Included	C18141NLS	C18142NLS	C18143
C18	Industri		Includes Fuel Injector Seal Exhaust Manifold Gaskets Not Included	C18151NLS	C15152NLS	C18153
C18	Marine		Injector Seals Included	C18171NLS	C18172NLS	C18153
C18 C27	MJE1-Up Generat			C1817 INLS C27051NLS	C17052NLS	C27053
C27 C27				C27051NLS C27061NLS	C27052NLS C27062NLS	C27053 C27063
				C27061NLS C27071NLS	C27062NLS C27072NLS	C27063 C27073
C27	MJE1-Up Generat					
C27	Industri			C27081NLS	C27082NLS	C27083
C32	Generat			C32061NLS	C32062NLS	C32063
C32	Generat			C32071NLS	C32072NLS	C32073
C32	Industri	TLD1-Up		C32081NLS	C32082NLS	C32083
C32	Generat	tor SXC1-Up WDR1-Up		C32091NLS	C32092NLS	C32093
		68Z1-Up 95Y1-Up	With Dry Exhaust Manifolds	508051		508053
3508	Industri	al	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		Single Head Replacement Set			508054
		23Z1-Up 70Z1-Up	With Wet Exhaust Manifolds	508061		508063
		1021.00	Single Head Replacement Set			508064
3508B	Generator	4GM1-Up Set 6PN1-Up 2HW1-Up	With Dry Exhaust Manifolds (New EUI)			508073
		- 1	Single Head Replacement Set			508074
			Note: The New EUI sets contain a molded rubber seal for the rocker box and cannot be interchanged with the older EUI and MUI flat rocker box gaskets. Note: The New IPD 1679527 seals for Dry Ceramic Manifold Segments are not included in any gasket sets but are available individually.			
3508	Marine	69Z1-Up 96Y1-Up	With Wet Exhaust Manifolds	508061		508063
			Single Head Replacement Set			508064
3508B	Marine	9	With Dry Exhaust Manifolds			
		1TW1-Up 3DM1-Up 3DW1-Up 3PS1-Up 3TS1-Up 7SM1-Up	Single Head Replacement Set With Dry Ceramic Exhaust Manifolds (Old EUI)			516124
		70M1-0p	Single Head Replacement Set With Dry Ceramic Exhaust Manifolds (New EUI)			516164

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

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

	ION INFORMATION , and Engine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
3516	Industrial	27Z1- Up 71Z1-Up	With Dry Exhaust Manifolds	516031		516033
		7121-0p	Single Head Replacement Set			508054
		27Z1-Up	With Wet Exhaust Manifolds	516041		516043
		71Z1-Up	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
		7521-0p	Single Head Replacement Set			508064
3516B	Generator Set	6HN1-Up 7RN1-Up 1NW1-Up 8NW1-Up	With Dry Exhaust Manifolds (New EUI)			516073
			Single Head Replacement Set			508074
			Note: The New EUI sets contain a molded rubber seal for the rocker box and cannot be interchanged with the older EUI and MUI flat rocker box gaskets.			
3516	Generator Set	5SJ1-Up	High-Speed Phase II Engine	516031		
3516	Marine	29Z1-Up 72Z1-Up	With Wet Exhaust Manifolds	516041		516043
			Single Head Replacement Set			508064
3516	Marine	4MJ150-Up	Single Head Replacement Set With Dry Ceramic Exhaust Manifolds (MUI) Note: The New IPD 1679527 seals for Dry Ceramic Manifold Segments are	516141		516143 516144
3516B	Marine	2FW1-Up 3SS1-Up 3SX1-Up 8CN1-Up 8KN1-Up 9AN1-Up	not included in any gasket sets but are available individually. With Dry Exhaust Manifolds			
			With Dry Ceramic Exhaust Manifolds (Old EUI)			516123
			Single Head Replacement Set With Dry Ceramic Exhaust Manifolds (Old EUI)			516124
			With Dry Ceramic Exhaust Manifolds (New EUI)	516161		516163
			Single Head Replacement Set With Dry Ceramic Exhaust Manifolds (New EUI)			516164
			Note: The New EUI sets contain a molded rubber seal for the rocker box and cannot be interchanged with the older EUI and MUI flat rocker box gaskets. Note: The New IPD 1679527 seals for Dry Ceramic Manifold Segments are not included in any gasket sets but are available individually.			
3516B	Generator Set	ZAP1-Up YAW-Up	Single Cylinder Head Replacement Set	516091NLS		516093 516094
D342	Industrial	31B1-Up	Non Spacer Plated * Rear Crankshaft Seal is NOT Included	342051*	342052	342053
D342	Marine	32B1-2268	Non Spacer Plated * Rear Crankshaft Seal is NOT Included	342061*	342062	342063
D343	Marine	33B1-667	Non Spacer Plated * Rear Crankshaft Seal is NOT Included	343011*		343113

	APPLICATION INFORMATION le, Serial #, and Engine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
D343	Marine	33B668-3027	Non Spacer Plated	343011*		343013
		62B1-Up	'			
			* Rear Crankshaft Seal is NOT Included Note that above D343's use two different Head Replacement Sets,			
			parts to do both are included in the Overhaul set			
D343	Marine	33B3028-Up	Spacer Plated * Contains 5S3903 Silicone Lip Rear Crankshaft Seal Only	343061*		343063
D343	Industrial	62B6728-Up	Spacer Plated * Rear Crankshaft Seal is NOT Included	343081*		343083
D353	Industrial	46B1-869	Non Spacer Plated	353031	353032	353033
D353	Industrial	46B870-6446 77B1-Up	Non Spacer Plated	353051	353052	353053
D353		46B6447-Up				
	Industrial	46B870-6446	Spacer Plated	353071	353072	353073
	musudi	Converted		000071	000012	000070
		Engines		050001	050000	050000
D353	Marine	47B1-469	Non Spacer Plated	353031	353032	353033
D353	Marine	47B470-4207	Non Spacer Plated	353061	353062	353063
D353		47B470-Up	Single Head Replacement Set			353064
1353	Marine	Converted	Spacer Plated	353071	353072	353073
	Maine	Engines	Spacer Flated	333071	555072	333073
0379	Industrial	68B2540-Up		379011	379012	379013
		00220.0 Op	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 H ₂ o Shielded Manifold			399044
			Incl. special IPD Composite Head Gasket			399044CP
			Single Head Replacement Set Includes Ferrules for H ₂ O Cooled Manifold			399144
			Incl. special IPD Composite Head Gasket			399144CP
D379	Marine	69B1227-Up		379041	379042	379043
			Incl. special IPD Composite Head Gasket	379041CP	379042CP	379043CP
			Single Head Replacement Set Includes Ferrules for H ₂ o Shielded Manifold			399044
			Incl. special IPD Composite Head Gasket			399044CP
			Single Head Replacement Set Includes Ferrules for H ₂ O Cooled Manifold			399144
			Incl. special IPD Composite Head Gasket			399144CP
D398	Industrial	66B1-3560 75B1-Up		398011		398013
			Incl. special IPD Composite Head Gasket	398011CP		398013CP
			Single Head Replacement Set Includes Ferrules			399014
			Incl. special IPD Composite Head Gasket			399014CP
			Single Head Replacement Set Includes Ferrules for H ₂ o Shielded Manifold			399044
			Incl. special IPD Composite Head Gasket			399044CP
			Single Head Replacement Set Includes Ferrules for H ₂ O Cooled Manifold			399144
			Incl. special IPD Composite Head Gasket			399144CP
D398	Industrial	66B3561-Up		398031	398032	398023
			Incl. special IPD Composite Head Gasket	398031CP	398032CP	398023CP
			Single Head Replacement Set Includes Ferrules			399014 399014CP
			Incl. special IPD Composite Head Gasket Single Head Replacement Set Includes Ferrules for H ₂ o Shielded Manifold	-		
			· · ·			399044
			Incl. special IPD Composite Head Gasket Single Head Replacement Set Includes Ferrules for H ₂ O Cooled Manifold			399044CP
			• • •			399144
			Incl. special IPD Composite Head Gasket			399144CP

(Veh	APPLICATION INFORMATION icle, Serial #, and Engine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
D398	Marine	67B1391-Up		398061	398062	398063
			Incl. special IPD Composite Head Gasket	398061CP	398062CP	398063CP
			Single Head Replacement Set Includes Ferrules			399014
			Incl. special IPD Composite Head Gasket	-		399014CP
			Single Head Replacement Set Includes Ferrules for H ₂ o Shielded Manifold			399044
			Incl. special IPD Composite Head Gasket			399044CP
			Single Head Replacement Set Includes Ferrules for H ₂ O Cooled Manifold			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_2o Shielded Manifold			399044
			Incl. special IPD Composite Head Gasket			399044CP
			Single Head Replacement Set Includes Ferrules for H ₂ O Cooled Manifold			399144
			Incl. special IPD Composite Head Gasket			399144CP
D399	Industrial	35B688-Up 36Z1-1920		399021	399022	399023
		00211020	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 Manifold	-		399044
			Incl. special IPD Composite Head Gasket			399044CP
			Single Head Replacement Set Includes Ferrules for H ₂ O Cooled Manifold	-		399144
			Incl. special IPD Composite Head Gasket			399144CP
D399	Marine	91B253-Up		399031	399032	399033
2000	Marino	010200 00	Incl. special IPD Composite Head Gasket	399031CP	399032CP	399033CP
			Single Head Replacement Set. Includes Ferrules		00000201	399014
			Incl. special IPD Composite Head Gasket			399014CP
			Single Head Replacement Set Includes Ferrules for H ₂ O Shielded Manifold			399044
			Incl. special IPD Composite Head Gasket			399044CP
			Single Head Replacement Set Includes Ferrules for H ₂ O Cooled Manifold	-		399144
			Incl. special IPD Composite Head Gasket			399144CP
MISCELLAN	NEOUS SETS		Fresh Water Pump Gasket & Seal Set (includes installation gaskets)			398008
D379 / D398			Fresh Water Pump Installation Set (To install unit only)			399018
201012000			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	D REAR CRANKSHAFT SEALS		(Not include	ded in any D379 / D39	8 / D399 IPD Style	
D379 / D398	3 / D399		Crankshaft Seal Ring	-		3N9160
FRONT AND	D REAR CRANKSHAFT SEALS-DIRECTION	NAL TYPE				
D379 / D398	3 / D399		Standard Rotation-Counter Clockwise-Viewing Engine Facing Flywheel		Front Seal	4W2606
			Opposite Rotation-Clockwise-Viewing Engine Facing Flywheel		Rear Seal	4W2606
			Standard Rotation-Counter Clockwise-Viewing Engine Facing Flywheel		Rear Seal	4W2607
CRANKCHA	AFT DIRECTIONAL TYPE SEAL CONVERS		Opposite Rotation-Clockwise Viewing-Engine Facing Flywheel		Front Seal	4W2607
D379 / D398			Standard Rotation-Counter Clockwise-Viewing Engine Facing Flywheel		Front	4W2568
			(Includes: Adapter, Seal, And Mounting Gasket)		Rear	4W2569
			Opposite Rotation-Clockwise-Viewing Engine Facing Flywheel		Front	4W2570
1			(Includes: Adapter, Seal, And Mounting Gasket)		Rear	4W2571

	ATION INFORMATION #, and Engine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
NATURAL GAS ENGIN	IES					
G3304	Natural Gas	37Y1-Up N4F1-Up	Non Turbocharged	304151*	304152*	304153*
			* If Equipped W/Long Valve Train, Order 1-8S1606 additionally			
G3304	Natural Gas	1RG1-Up			In Development	
G3306	Natural Gas	7Y291-Up G6X1-Up	Turbocharged - Spacer Plated	306341*	306342*	306343*
			 * If Expansion Tank Gaskets Are Needed, Order 6V0621 Gasket Set * If Equipped W/Long Valve Train, Order 1-8S1605 additionally * Order Aftercooler Gasket Kit Separately if Required 			
G3306	Natural Gas	7Y291-Up G6X1-Up	Non Turbocharged Spacer Plated * If Expansion Tank Gaskets Are Needed, Order 6V0621 Gasket Set * If Equipped W/Long Valve Train, Order 1-8S1605 Additional+D1220	306351*	306352*	306353*
G3406			Non Turbocharged			
	Natural Gas	4FD1-Up 1RK1-Up	Spacer Plated 19 Bolt Rear Cover	406221	406222	406223
G3406			Turbocharged			
	Natural Gas	4FD1-Up	Spacer Plated	406261		406263
		1RK1-Up	19 Bolt Rear Cover			
G3406	Natural Gas	1RK1-Up	Turbocharged	406261		
	Lean Burn		Aftercooled Engine	400201		
G3408	Natural Gas	6NB1-Up	Turbocharged Aftercooled Engine	408261		408263
G3408		3WR1-Up				
	Natural Gas	6FW1-Up	Turbocharged Aftercooled Engine	408261		408263
	Lean Burn	6RJ1-Up		100201		100200
C2409	Natural Gas	8YR1-Up BAZ 207-Up	Turbocharged Aftercooled Engine	408271NLS	408272NLS	408273
G3408 G3412	Natural Gas	7DB1-Up	Non Turbocharged - Non Aftercooled	40827 INLS	400272INL3	408273
00412	Natural Gas	/DD1-0p	Single Head Replacement Set	412031		412114
G3412		7004.11	Turbocharged	440444		
	Natural Gas	7DB1-Up	Aftercooled	412111		412113
			Single Head Replacement Set			412114
G3412		5KR1-Up				
	Natural Gas	6ZM1-Up			In Development	
00440		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 Exhaust Manifolds	508031		508033
			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.			
G3508	Natural Gas	9TG1-Up 4WD1-Up	W/ Electronic Ignition System And Wet Exhaust Manifolds	508041		508043
		-+0001-00	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	4KC1-Up	W/ Magneto Ignition System And Wet Exhaust Manifolds	512011	512012	512013
			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.			

	TION INFORMATION #, and Engine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
G3512	Natural Gas	5JD1-Up 7NJ1-Up	W/ Electronic Ignition System And Wet Exhaust Manifolds	512021	512022	512023
			Single Head Replacement Set With Wet Exhaust Manifolds			508044EM
			Single Head Replacement Set With Dry Ceramic Exhaust Manifolds			516114
			Note: The New IPD 1547477 seals for Dry Ceramic Manifold Segments are not included in any gasket sets but are available individually.			
G3512	Natural Gas	5JD1-Up 7NJ1-Up	W/ Electronic Ignition System And Dry Exhaust ManifoldsLate EIS			512113
		inter op	Single Head Replacement Set With Dry Ceramic Exhaust Manifolds			516114
			Note: The New IPD 1547477 seals for Dry Ceramic Manifold Segments are			
00540	Natural Oak	0004.11-	not included in any gasket sets but are available individually.	540044	540040	540040
G3516	Natural Gas	3RC1-Up	W/ Magneto Ignition System And Wet Exhaust Manifolds Single Head Replacement Set With Wet Exhaust Manifolds	516011	516012	516013 508044EM
			Single Head Replacement Set With Dry Ceramic Exhaust Manifolds			508044EM 516114
G3516		8LD1-Up	- · · · · · · · · · · · · · · · · · · ·			510114
65516	Natural Gas	4EK1-Up	W/ Electronic Ignition System And Wet Exhaust Manifolds	516021	516022	516023
			Single Head Replacement Set With Wet Exhaust Manifolds			508044EM
			Single Head Replacement Set With Dry Ceramic Exhaust Manifolds			516114
			Note: The New IPD 1547477 seals for Dry Ceramic Manifold Segments are not included in any gasket sets but are available individually.			
G3516	Natural Gas	CTL1-Up	Wet Exhaust Manifolds	516061NLS		516063
G3516	Natural Gas	4EK1-Up 8LD1-Up	W/ Electronic Ignition System And Dry Ceramic Exhaust Manifolds	516111		516113
			Single Head Replacement Set With Dry Ceramic Exhaust Manifolds			516114
			Note: The New IPD 1547477 seals for Dry Ceramic Manifold Segments are not included in any gasket sets but are available individually.			
G3516	Natural Gas	CTW1-UP	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	516131		516133
G3516	Natural Gas	WPW1-Up		516191NLS		516193
G3516	Natural Gas	ZBA1-Up		516151NLS		516153
G3516	Natural Gas	JEF1-Up	ULB (ULTRA LEAN BURN) Single Head Replacement Set	516201NLS		516204
G3520		BGW1-Up	ž i			
	Natural Gas	CWD1-Up		520001NLS		520003
		GZP1Up				
G3520		GDB1-UP				
	Natural Gas	GZA1-UP		520011NLS		520013
00700		GZB1-UP				
G3520	Natural Gas	JBX202-UP	WITH WET EXHAUST MANIFOLDS	520021NLS		520023
G3520	Natural Gas	LGS1-UP JBZ1-UP	WITH WET EXHAUST MANIFOLDS	520031NLS		520033
G3520 G3520		RLP1-UP	WITH WET EXHAUST MANIFOLDS			
00020	Natural Gas	GZJ1-Up		520041NLS		520043
G3600	Natural Gas		Single Cylinder Head Set			360004
G342	Natural Gas	71B1-Up	Non Spacer Plated	342071	342072	342073
			SINGLE CYL HEAD SET			342074
G342	Natural Gas	71B1-Up	Spacer Plated	342081		342083
G379	Natural Gas	72B468-Up	SINGLE CYL HEAD SET Non Turbocharged	379021	379022	342084 379023
0019	inatural Gas	120400-0h	Incl. special IPD Composite Head Gasket	379021CP	379022CP	379023 379023CP
			Single Head Replacement Set Includes Ferrules	01002101	01002201	399054
			Incl. special IPD Composite Head Gasket			399054CP
G379	Natural Gas	72B468-Up	Turbocharged Aftercooled Engine	379031	379032	379033
			Incl. special IPD Composite Head Gasket	379031CP	379032CP	379033CP
			Single Head Replacement Set Includes Ferrules	01000105	01000201	399054

		ENGINE	REMARKS	OUT OF FRAME	IN FRAME	CYL HEAD
	erial #, and Engine Designation)	SERIAL #		OVERHAUL	OVERHAUL	REPLACE
G398	Natural Gas	73B1-905	Non Turbocharged	398081		398083
			Incl. special IPD Composite Head Gasket Single Head Replacement Set Includes Ferrules	398081CP		398083CP 398084
			Incl. special IPD Composite Head Gasket			398084CP
G398	Natural Gas	73B906-Up	Non Turbocharged	398161	398162	398163
3330	Natural Gas	70B300-0p	Incl. special IPD Composite Head Gasket	398161CP	398162CP	398163CP
			Single Head Replacement Set Includes Ferrules		00010201	399054
			Incl. special IPD Composite Head Gasket			399054CP
G398	Natural Gas	73B906-Up	Turbocharged	398091	398092	398093
			Incl. special IPD Composite Head Gasket	398091CP	398092CP	398093CP
			Single Head Replacement Set Includes Ferrules			399054
			Incl. special IPD Composite Head Gasket			399054CP
G399	Natural Gas	49C261-Up	Non Turbocharged	399121	399122	399123
			Incl. special IPD Composite Head Gasket	399121CP	399122CP	399123CP
			Single Head Replacement Set Includes Ferrules			399054
			Incl. special IPD Composite Head Gasket			399054CP
G399	Natural Gas Applications Only	49C261-Up	Turbocharged Aftercooled Engine	399131	399132	399133
			Incl. special IPD Composite Head Gasket	399131CP	399132CP	399133CP
			Single Head Replacement Set Includes Ferrules			399054
			Incl. special IPD Composite Head Gasket			399054CP
MISCELLANEOUS	SETS					
G379 / G398 / G39	9	Fresh Water Pum	np Gasket & Seal Set (includes installation gaskets)			398008
			np Installation Set (To install unit only)			399018
			o installation Set (To Install unit only)			399008
			stallation Set (To install unit only)			399006
			tallation Set (To install unit only)			399005
		Aftercooler Install	ation Set (To install unit only)			399015
FRONT AND REAL						
	R CRANKSHAFT SEALS		2.	(Not included in any G379 / G39	8 / G399 IPD Style	,
G379 / G398 / G39	9	Crankshaft Seal F	Ring	(Not included in any G379 / G39	8 / G399 IPD Style	e Gasket Sets) 3N9160
G379 / G398 / G39 FRONT AND REA	9 R CRANKSHAFT SEALS-DIRECTION	AL TYPE		(Not included in any G379 / G39		3N9160
G379 / G398 / G39	9 R CRANKSHAFT SEALS-DIRECTION	AL TYPE Standard Rotation	n-Counter Clockwise-Viewing Engine Facing Flywheel	(Not included in any G379 / G39	Front Seal	3N9160 4W2606
G379 / G398 / G39 FRONT AND REA	9 R CRANKSHAFT SEALS-DIRECTION	AL TYPE Standard Rotation Opposite Rotation	n-Counter Clockwise-Viewing Engine Facing Flywheel n-Clockwise-Viewing Engine Facing Flywheel	(Not included in any G379 / G39	Front Seal Rear Seal	3N9160 4W2606 4W2606
G379 / G398 / G39 FRONT AND REA	9 R CRANKSHAFT SEALS-DIRECTION	AL TYPE Standard Rotatior Opposite Rotatior Standard Rotatior	n-Counter Clockwise-Viewing Engine Facing Flywheel n-Clockwise-Viewing Engine Facing Flywheel n-Counter Clockwise-Viewing Engine Facing Flywheel	(Not included in any G379 / G39	Front Seal Rear Seal Rear Seal	3N9160 4W2606 4W2606 4W2607
G379 / G398 / G39 FRONT AND REAI G379 / G398 / G39	9 <u>R CRANKSHAFT SEALS-DIRECTION</u> 9	AL TYPE Standard Rotation Opposite Rotation Standard Rotation Opposite Rotation	n-Counter Clockwise-Viewing Engine Facing Flywheel n-Clockwise-Viewing Engine Facing Flywheel	(Not included in any G379 / G39	Front Seal Rear Seal	3N9160 4W2606 4W2606
G379 / G398 / G39 FRONT AND REAL G379 / G398 / G39 CRANKSHAFT DII	9 R CRANKSHAFT SEALS-DIRECTION 9 RECTIONAL TYPE SEAL CONVERSIO	AL TYPE Standard Rotation Opposite Rotation Standard Rotation Opposite Rotation ON GROUPS	n-Counter Clockwise-Viewing Engine Facing Flywheel n-Clockwise-Viewing Engine Facing Flywheel n-Counter Clockwise-Viewing Engine Facing Flywheel n-Clockwise-Viewing Engine Facing Flywheel	(Not included in any G379 / G39	Front Seal Rear Seal Rear Seal Front Seal	3N9160 4W2606 4W2606 4W2607 4W2607
G379 / G398 / G39 <u>FRONT AND REA</u> I G379 / G398 / G39	9 R CRANKSHAFT SEALS-DIRECTION 9 RECTIONAL TYPE SEAL CONVERSIO	AL TYPE Standard Rotation Opposite Rotation Standard Rotation Opposite Rotation ON GROUPS Standard Rotation	n-Counter Clockwise-Viewing Engine Facing Flywheel n-Clockwise-Viewing Engine Facing Flywheel n-Counter Clockwise-Viewing Engine Facing Flywheel n-Clockwise-Viewing Engine Facing Flywheel n-Counter Clockwise-Viewing Engine Facing Flywheel	(Not included in any G379 / G39	Front Seal Rear Seal Rear Seal Front Seal Front	3N9160 4W2606 4W2606 4W2607 4W2607 4W2568
G379 / G398 / G39 FRONT AND REAI G379 / G398 / G39 CRANKSHAFT DII	9 R CRANKSHAFT SEALS-DIRECTION 9 RECTIONAL TYPE SEAL CONVERSIO	AL TYPE Standard Rotation Opposite Rotation Standard Rotation Opposite Rotation ON GROUPS Standard Rotation (Includes: Ada	n-Counter Clockwise-Viewing Engine Facing Flywheel n-Clockwise-Viewing Engine Facing Flywheel n-Counter Clockwise-Viewing Engine Facing Flywheel n-Clockwise-Viewing Engine Facing Flywheel n-Counter Clockwise-Viewing Engine Facing Flywheel upter, Seal, And Mounting Gasket)	(Not included in any G379 / G39	Front Seal Rear Seal Rear Seal Front Seal Front Rear	3N9160 4W2606 4W2606 4W2607 4W2607 4W2568 4W2568
G379 / G398 / G39 FRONT AND REAI G379 / G398 / G39 CRANKSHAFT DII	9 R CRANKSHAFT SEALS-DIRECTION 9 RECTIONAL TYPE SEAL CONVERSIO	AL TYPE Standard Rotation Opposite Rotation Opposite Rotation OPOSITE ROTATION Standard Rotation (Includes: Ada Opposite Rotation	n-Counter Clockwise-Viewing Engine Facing Flywheel n-Clockwise-Viewing Engine Facing Flywheel n-Counter Clockwise-Viewing Engine Facing Flywheel n-Clockwise-Viewing Engine Facing Flywheel pter, Seal, And Mounting Gasket) n-Clockwise-Viewing Engine Facing Flywheel	(Not included in any G379 / G39	Front Seal Rear Seal Rear Seal Front Seal Front	3N9160 4W2606 4W2606 4W2607 4W2607 4W2568 4W2568 4W2569 4W2570
G379 / G398 / G39 <u>FRONT AND REAI</u> G379 / G398 / G39 <u>CRANKSHAFT DII</u> G379 / G398 / G39	9 <u>R CRANKSHAFT SEALS-DIRECTION</u> 9 <u>RECTIONAL TYPE SEAL CONVERSIO</u> 9	AL TYPE Standard Rotation Opposite Rotation Opposite Rotation OPOSITE ROTATION Standard Rotation (Includes: Ada Opposite Rotation	n-Counter Clockwise-Viewing Engine Facing Flywheel n-Clockwise-Viewing Engine Facing Flywheel n-Counter Clockwise-Viewing Engine Facing Flywheel n-Clockwise-Viewing Engine Facing Flywheel n-Counter Clockwise-Viewing Engine Facing Flywheel upter, Seal, And Mounting Gasket)	(Not included in any G379 / G39	Front Seal Rear Seal Rear Seal Front Seal Front Rear Front	3N9160 4W2606 4W2606 4W2607 4W2607 4W2568 4W2568
G379 / G398 / G39 FRONT AND REAL G379 / G398 / G39 CRANKSHAFT DII G379 / G398 / G39 TRACK TYPE TRA	9 <u>R CRANKSHAFT SEALS-DIRECTION</u> 9 <u>RECTIONAL TYPE SEAL CONVERSIO</u> 9	AL TYPE Standard Rotation Opposite Rotation Opposite Rotation OPOSITE ROTATION Standard Rotation (Includes: Ada Opposite Rotation	n-Counter Clockwise-Viewing Engine Facing Flywheel n-Clockwise-Viewing Engine Facing Flywheel n-Counter Clockwise-Viewing Engine Facing Flywheel n-Clockwise-Viewing Engine Facing Flywheel pter, Seal, And Mounting Gasket) n-Clockwise-Viewing Engine Facing Flywheel	(Not included in any G379 / G39	Front Seal Rear Seal Rear Seal Front Seal Front Rear Front	3N9160 4W2606 4W2606 4W2607 4W2607 4W2568 4W2568 4W2569 4W2570
G379 / G398 / G39 FRONT AND REAL G379 / G398 / G39 CRANKSHAFT DII G379 / G398 / G39 TRACK TYPE TRA	9 <u>R CRANKSHAFT SEALS-DIRECTION</u> 9 <u>RECTIONAL TYPE SEAL CONVERSIO</u> 9 ACTORS 6N1-Up 7911-1 In	AL TYPE Standard Rotation Opposite Rotation Standard Rotation Opposite Rotation ON GROUPS Standard Rotation (Includes: Ada Opposite Rotation (Includes: Ada	n-Counter Clockwise-Viewing Engine Facing Flywheel n-Clockwise-Viewing Engine Facing Flywheel n-Counter Clockwise-Viewing Engine Facing Flywheel n-Clockwise-Viewing Engine Facing Flywheel n-Counter Clockwise-Viewing Engine Facing Flywheel pter, Seal, And Mounting Gasket) n-Clockwise-Viewing Engine Facing Flywheel pter, Seal, And Mounting Gasket)		Front Seal Rear Seal Rear Seal Front Seal Front Rear Front Rear	3N9160 4W2606 4W2606 4W2607 4W2607 4W2568 4W2568 4W2569 4W2570 4W2571
G379 / G398 / G39 FRONT AND REAL G379 / G398 / G39 CRANKSHAFT DII G379 / G398 / G39 TRACK TYPE TRA	9 <u>R CRANKSHAFT SEALS-DIRECTION</u> 9 <u>RECTIONAL TYPE SEAL CONVERSIO</u> 9 <u>ACTORS</u> 6N1-Up	AL TYPE Standard Rotation Opposite Rotation Opposite Rotation OPOSITE ROTATION Standard Rotation (Includes: Ada Opposite Rotation	n-Counter Clockwise-Viewing Engine Facing Flywheel n-Clockwise-Viewing Engine Facing Flywheel n-Counter Clockwise-Viewing Engine Facing Flywheel n-Clockwise-Viewing Engine Facing Flywheel pter, Seal, And Mounting Gasket) n-Clockwise-Viewing Engine Facing Flywheel	(Not included in any G379 / G39	Front Seal Rear Seal Rear Seal Front Seal Front Rear Front	3N9160 4W2606 4W2606 4W2607 4W2607 4W2568 4W2568 4W2569 4W2570
G379 / G398 / G39 FRONT AND REAL G379 / G398 / G39 <u>CRANKSHAFT DII</u> G379 / G398 / G39 TRACK TYPE TRA	9 <u>R CRANKSHAFT SEALS-DIRECTION</u> 9 <u>RECTIONAL TYPE SEAL CONVERSIO</u> 9 <u>ACTORS</u> 6N1-Up 79U1-Up	AL TYPE Standard Rotation Opposite Rotation Standard Rotation Opposite Rotation ON GROUPS Standard Rotation (Includes: Ada Opposite Rotation (Includes: Ada	n-Counter Clockwise-Viewing Engine Facing Flywheel n-Clockwise-Viewing Engine Facing Flywheel n-Counter Clockwise-Viewing Engine Facing Flywheel n-Clockwise-Viewing Engine Facing Flywheel n-Counter Clockwise-Viewing Engine Facing Flywheel pter, Seal, And Mounting Gasket) n-Clockwise-Viewing Engine Facing Flywheel pter, Seal, And Mounting Gasket)		Front Seal Rear Seal Rear Seal Front Seal Front Rear Front Rear	3N9160 4W2606 4W2606 4W2607 4W2607 4W2568 4W2568 4W2569 4W2570 4W2571
G379 / G398 / G39 FRONT AND REAL G379 / G398 / G39 CRANKSHAFT DII G379 / G398 / G39 TRACK TYPE TRA D3	9 <u>R CRANKSHAFT SEALS-DIRECTION</u> 9 <u>RECTIONAL TYPE SEAL CONVERSIO</u> 9 <u>ACTORS</u> <u>6N1-Up</u> 3204 <u>82U1-Up</u> <u>83U1-Up</u> <u>23Y1 Up</u>	AL TYPE Standard Rotation Opposite Rotation Standard Rotation Opposite Rotation ON GROUPS Standard Rotation (Includes: Ada Opposite Rotation (Includes: Ada 45V1-Up	n-Counter Clockwise-Viewing Engine Facing Flywheel n-Clockwise-Viewing Engine Facing Flywheel n-Counter Clockwise-Viewing Engine Facing Flywheel n-Clockwise-Viewing Engine Facing Flywheel pter, Seal, And Mounting Gasket) n-Clockwise-Viewing Engine Facing Flywheel pter, Seal, And Mounting Gasket) P.C. And D.I. Non Turbocharged Engine	204011	Front Seal Rear Seal Front Seal Front Sear Front Rear Front Rear 204012	3N9160 4W2606 4W2607 4W2607 4W2568 4W2568 4W2569 4W2570 4W2571 204013
G379 / G398 / G39 FRONT AND REAL G379 / G398 / G39 CRANKSHAFT DII G379 / G398 / G39 TRACK TYPE TRA D3	9 <u>R CRANKSHAFT SEALS-DIRECTION</u> 9 <u>RECTIONAL TYPE SEAL CONVERSIO</u> 9 <u>XCTORS</u> <u>6N1-Up</u> 3204 <u>6N1-Up</u> 82U1-Up 83U1-Up 83U1-Up 3204 <u>23Y1-Up</u> 24Y1-Up	AL TYPE Standard Rotation Opposite Rotation Standard Rotation Opposite Rotation ON GROUPS Standard Rotation (Includes: Ada Opposite Rotation (Includes: Ada	n-Counter Clockwise-Viewing Engine Facing Flywheel n-Clockwise-Viewing Engine Facing Flywheel n-Counter Clockwise-Viewing Engine Facing Flywheel n-Clockwise-Viewing Engine Facing Flywheel n-Counter Clockwise-Viewing Engine Facing Flywheel pter, Seal, And Mounting Gasket) n-Clockwise-Viewing Engine Facing Flywheel pter, Seal, And Mounting Gasket)		Front Seal Rear Seal Rear Seal Front Seal Front Rear Front Rear	3N9160 4W2606 4W2606 4W2607 4W2607 4W2568 4W2568 4W2569 4W2570 4W2571
G379 / G398 / G39 FRONT AND REAL G379 / G398 / G39 CRANKSHAFT DII G379 / G398 / G39 TRACK TYPE TRA D3 D3B	9 <u>R CRANKSHAFT SEALS-DIRECTION</u> 9 <u>RECTIONAL TYPE SEAL CONVERSIO</u> 9 <u>ACTORS</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u>	AL TYPE Standard Rotation Opposite Rotation Standard Rotation Opposite Rotation ON GROUPS Standard Rotation (Includes: Ada Opposite Rotation (Includes: Ada 45V1-Up 45V1-32893	n-Counter Clockwise-Viewing Engine Facing Flywheel n-Clockwise-Viewing Engine Facing Flywheel n-Counter Clockwise-Viewing Engine Facing Flywheel n-Clockwise-Viewing Engine Facing Flywheel pter, Seal, And Mounting Gasket) n-Clockwise-Viewing Engine Facing Flywheel pter, Seal, And Mounting Gasket) P.C. And D.I. Non Turbocharged Engine P.C. And D.I. Non Turbocharged Engine	204011	Front Seal Rear Seal Front Seal Front Sear Front Rear Front Rear 204012 204012	3N9160 4W2606 4W2607 4W2607 4W2568 4W2569 4W2570 4W2571 204013 204013
G379 / G398 / G39 FRONT AND REAL G379 / G398 / G39 CRANKSHAFT DII G379 / G398 / G39 TRACK TYPE TRA D3 D3B D3B	9 <u>R CRANKSHAFT SEALS-DIRECTION</u> 9 <u>RECTIONAL TYPE SEAL CONVERSIO</u> 9 <u>ACTORS</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u>	AL TYPE Standard Rotation Opposite Rotation Standard Rotation Opposite Rotation ON GROUPS Standard Rotation (Includes: Ada Opposite Rotation (Includes: Ada 45V1-Up 45V1-32893	n-Counter Clockwise-Viewing Engine Facing Flywheel n-Clockwise-Viewing Engine Facing Flywheel n-Counter Clockwise-Viewing Engine Facing Flywheel n-Clockwise-Viewing Engine Facing Flywheel pter, Seal, And Mounting Gasket) n-Clockwise-Viewing Engine Facing Flywheel pter, Seal, And Mounting Gasket) P.C. And D.I. Non Turbocharged Engine	204011	Front Seal Rear Seal Front Seal Front Sear Front Rear Front Rear 204012	3N9160 4W2606 4W2607 4W2607 4W2568 4W2568 4W2569 4W2570 4W2571 204013
G379 / G398 / G39 FRONT AND REAL G379 / G398 / G39 CRANKSHAFT DII G379 / G398 / G39 TRACK TYPE TRA D3 D3B D3B	9 <u>R CRANKSHAFT SEALS-DIRECTION</u> 9 <u>RECTIONAL TYPE SEAL CONVERSIO</u> 9 <u>ACTORS</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u>	AL TYPE Standard Rotation Opposite Rotation Standard Rotation Opposite Rotation ON GROUPS Standard Rotation (Includes: Ada Opposite Rotation (Includes: Ada 45V1-Up 45V1-32893	n-Counter Clockwise-Viewing Engine Facing Flywheel n-Clockwise-Viewing Engine Facing Flywheel n-Counter Clockwise-Viewing Engine Facing Flywheel n-Clockwise-Viewing Engine Facing Flywheel pter, Seal, And Mounting Gasket) n-Clockwise-Viewing Engine Facing Flywheel pter, Seal, And Mounting Gasket) P.C. And D.I. Non Turbocharged Engine P.C. And D.I. Non Turbocharged Engine	204011	Front Seal Rear Seal Front Seal Front Sear Front Rear Front Rear 204012 204012	3N9160 4W2606 4W2607 4W2607 4W2568 4W2569 4W2570 4W2571 204013 204013
G379 / G398 / G39 FRONT AND REAL G379 / G398 / G39 CRANKSHAFT DII G379 / G398 / G39 TRACK TYPE TRA D3 D3B D3B D3B	9 <u>R CRANKSHAFT SEALS-DIRECTION</u> 9 <u>RECTIONAL TYPE SEAL CONVERSIO</u> 9 <u>XCTORS</u> <u>6N1-Up</u> 3204 <u>79U1-Up</u> 83U1-Up 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u>	AL TYPE Standard Rotation Opposite Rotation Standard Rotation Opposite Rotation ON GROUPS Standard Rotation (Includes: Ada Opposite Rotation (Includes: Ada 45V1-Up 45V1-32893 45V32894-40125 45V40126-Up	h-Counter Clockwise-Viewing Engine Facing Flywheel h-Clockwise-Viewing Engine Facing Flywheel h-Counter Clockwise-Viewing Engine Facing Flywheel h-Counter Clockwise-Viewing Engine Facing Flywheel pter, Seal, And Mounting Gasket) h-Clockwise-Viewing Engine Facing Flywheel pter, Seal, And Mounting Gasket) P.C. And D.I. Non Turbocharged Engine D.I. Non Turbocharged Engine D.I. Non Turbocharged Engine	204011 204011 204021 204061	Front Seal Rear Seal Front Seal Front Seal Front Rear 204012 204012 204022 204062	3N9160 4W2606 4W2607 4W2607 4W2568 4W2568 4W2570 4W2571 204013 204013 204023 204063
G379 / G398 / G39 <u>FRONT AND REAI</u> G379 / G398 / G39 <u>CRANKSHAFT DII</u> G379 / G398 / G39 <u>TRACK TYPE TRA</u> D3 D3B D3B D3B	9 <u>R CRANKSHAFT SEALS-DIRECTION</u> 9 <u>RECTIONAL TYPE SEAL CONVERSIO</u> 9 <u>ACTORS</u> <u>6N1-Up</u> <u>79U1-Up</u> 82U1-Up 82U1-Up 83U1-Up 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> <u>23Y1-Up</u> <u>23Y1-Up</u> <u>24Y1-Up</u>	AL TYPE Standard Rotation Opposite Rotation Standard Rotation Opposite Rotation On GROUPS Standard Rotation (Includes: Ada Opposite Rotation (Includes: Ada 45V1-Up 45V1-32893 45V32894-40125	h-Counter Clockwise-Viewing Engine Facing Flywheel h-Clockwise-Viewing Engine Facing Flywheel h-Counter Clockwise-Viewing Engine Facing Flywheel h-Clockwise-Viewing Engine Facing Flywheel h-Counter Clockwise-Viewing Engine Facing Flywheel h-Clockwise-Viewing Engine h-Llockwise-Viewing Engine h-Llockwise-Viewing Engine h-Llockwise-Viewing Engine h-Llockwise-Viewing Engine h-Llockwise-Viewing Engine h-Llockwise	204011 204011 204021	Front Seal Rear Seal Front Seal Front Seal Front Rear 204012 204012 204022	3N9160 4W2606 4W2607 4W2607 4W2568 4W2568 4W2570 4W2570 4W2571 204013 204013 204023
G379 / G398 / G39 <u>FRONT AND REAL</u> G379 / G398 / G39 <u>CRANKSHAFT DII</u> G379 / G398 / G39 <u>TRACK TYPE TRA</u> D3 D3B D3B D3B D3B	9 <u>R CRANKSHAFT SEALS-DIRECTION</u> 9 <u>RECTIONAL TYPE SEAL CONVERSIO</u> 9 <u>ACTORS</u> <u>6N1-Up</u> 3204 <u>82U1-Up</u> 83U1-Up 83U1-Up 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u>	AL TYPE Standard Rotation Opposite Rotation Standard Rotation Opposite Rotation ON GROUPS Standard Rotation (Includes: Ada Opposite Rotation (Includes: Ada 45V1-Up 45V1-32893 45V32894-40125 45V40126-Up 45V1-32939	h-Counter Clockwise-Viewing Engine Facing Flywheel h-Clockwise-Viewing Engine Facing Flywheel h-Counter Clockwise-Viewing Engine Facing Flywheel h-Counter Clockwise-Viewing Engine Facing Flywheel pter, Seal, And Mounting Gasket) h-Clockwise-Viewing Engine Facing Flywheel pter, Seal, And Mounting Gasket) P.C. And D.I. Non Turbocharged Engine D.I. Non Turbocharged Engine D.I. Non Turbocharged Engine	204011 204011 204021 204061	Front Seal Rear Seal Front Seal Front Seal Front Rear 204012 204012 204022 204062	3N9160 4W2606 4W2607 4W2607 4W2568 4W2568 4W2570 4W2571 204013 204013 204023 204063
G379 / G398 / G39 FRONT AND REAL G379 / G398 / G39 CRANKSHAFT DII G379 / G398 / G39 TRACK TYPE TRA D3 D3B D3B D3B D3B D3B	9 R CRANKSHAFT SEALS-DIRECTION 9 RECTIONAL TYPE SEAL CONVERSIO 9 XCTORS 4 3204 3204 3204 23Y1-Up	AL TYPE Standard Rotation Opposite Rotation Standard Rotation Opposite Rotation ON GROUPS Standard Rotation (Includes: Ada Opposite Rotation (Includes: Ada 45V1-Up 45V1-32893 45V32894-40125 45V40126-Up 45V1-32939	h-Counter Clockwise-Viewing Engine Facing Flywheel h-Clockwise-Viewing Engine Facing Flywheel h-Counter Clockwise-Viewing Engine Facing Flywheel h-Counter Clockwise-Viewing Engine Facing Flywheel pter, Seal, And Mounting Gasket) -Clockwise-Viewing Engine Facing Flywheel pter, Seal, And Mounting Gasket) P.C. And D.I. Non Turbocharged Engine D.I. Non Turbocharged Engine D.I. Non Turbocharged Engine P.C. And D.I. Non Turbocharged Engine D.I. Non Turbocharged Engine P.C. And D.I. Non Turbocharged Engine D.I. Non Turbocharged Engine P.C. And D.I. Non Turbocharged Engine	204011 204011 204021 204061 204011	Front Seal Rear Seal Front Seal Front Seal Front Rear 204012 204012 204022 204062 204012	3N9160 4W2606 4W2607 4W2607 4W2568 4W2569 4W2570 4W2571 204013 204013 204023 204063 204013
G379 / G398 / G39 FRONT AND REAL G379 / G398 / G39 CRANKSHAFT DII G379 / G398 / G39 TRACK TYPE TRA D3 D3B D3B D3B D3B	9 <u>R CRANKSHAFT SEALS-DIRECTION</u> 9 <u>RECTIONAL TYPE SEAL CONVERSIO</u> 9 <u>ACTORS</u> <u>6N1-Up</u> 3204 <u>82U1-Up</u> 83U1-Up 83U1-Up 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> 3204 <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u> <u>3204</u> <u>23Y1-Up</u>	AL TYPE Standard Rotation Opposite Rotation Standard Rotation Opposite Rotation ON GROUPS Standard Rotation (Includes: Ada Opposite Rotation (Includes: Ada 45V1-Up 45V1-32893 45V32894-40125 45V40126-Up 45V1-32939	h-Counter Clockwise-Viewing Engine Facing Flywheel h-Clockwise-Viewing Engine Facing Flywheel h-Counter Clockwise-Viewing Engine Facing Flywheel h-Counter Clockwise-Viewing Engine Facing Flywheel pter, Seal, And Mounting Gasket) -Clockwise-Viewing Engine Facing Flywheel pter, Seal, And Mounting Gasket) P.C. And D.I. Non Turbocharged Engine D.I. Non Turbocharged Engine D.I. Non Turbocharged Engine P.C. And D.I. Non Turbocharged Engine D.I. Non Turbocharged Engine P.C. And D.I. Non Turbocharged Engine D.I. Non Turbocharged Engine P.C. And D.I. Non Turbocharged Engine	204011 204011 204021 204061 204011	Front Seal Rear Seal Front Seal Front Seal Front Rear 204012 204012 204022 204062 204012	3N9160 4W2606 4W2607 4W2607 4W2568 4W2569 4W2570 4W2571 204013 204013 204023 204063 204013

	APPLICATION INF (Vehicle, Serial #, and En		ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
D3B	(. eniolo, eenar, and En	1PJ1-Up			OVERIAGE	OTENHAUE	
D3C		3YC1-Up					
		3RF1-Up				004000	00/000
	3204	5MC1-Up	45V48070-Up	D.I. Non Turbocharged Engine	204061	204062	204063
		6PF1-Up					
		8BF1-Up					
D3B	3204	2PC1-Up	45V40547-Up	D.I. Turbocharged Engine	204041	204042	204043
D3C	3204	7JF1-Up	45V70378-Up	W/ 3208 Style Oil Cooler	204041	204042	204043
D4C		1RJ1-Up	45V69350-Up				
		2CJ1-Up	45V90750-Up	Non Turbocharged			
		2FX1-Up	7YJ1-Up	W/Large Oiil Cooler	204081	204082	204083
		7KG1-Up	45V60736-Up				
	3204	9BG1-Up					
D4D		59J1-1280					
		60J1-3269					
	3304	61J1-641		Non Spacer Plated	304131	304012	304013
	5504	82J1-3343		Non Turbocharged	304 13 1	304012	304013
		83J1-3176					
		84J1-1524					
D4E	3304		48V1-52800				
		71X1-Up	48V1-52810				
			78P1-47087	Non Spacer Plated	304031	304032	304033
		72X1-Up	43V1-19033	Non Turbocharged			
		68X1-Up	48V1-52811				
		71X 1-Up	48V52801-Up				
D4E	3304		48V52801-Up				
		72X1-Up	78P47088-Up	Spacer Plated	304051	304052	304053
		68X1-Up	43V19034-Up	Non Turbocharged	504051	304032	304033
			48V52812-Up				
D4E	3304		7Z1-Up	Spacer Plated	304061	304062	304063
D 45			12Z1-Up	Non Turbocharged			
D4E	3304		7Z1-Up 12Z1-Up	Spacer Plated Turbocharged	304081	304082	304083
D4H		2Ac1-Up	-				
		3AC1-Up		D.I. Turbocharged Engine			
	3204	8PB1-Up	45V39556-Up	W/ 3208 Style Oil Cooler	204041	204042	204043
		8ZF1-Up					
		9DB1-Up					
D4H	0004	4NK1-Up	071 11-	Spacer Plated	004004	204000	204000
	3304	8PG1-Up	9Z1-Up	Turbocharged	304081	304082	304083
D5		9GJ1-Up		-			
50		62J1-Up 63J1-Up					
		93J1-Up					
	3306	94J1-Up		Non Spacer Plated	306041	306042	306043
	0000	95J1-Up		Non Turbocharged	0000+1	000072	0000-0
		96J1-Up					
		98J1-Up					
D5		48X1-Up	44V1-22230	Non Spacer Plated			
D5B	3306	49X1-1295	44V1-22252	Non Turbocharged	306031	306032	306033
Dr			3N1-79762				
D5 D5B	3306	48X1-Up	44V22231-Up 44V22253-Up	Spacer Plated	306011	306012	306013
	3300	49X1296-Up	3N79763-Up	Non Turbocharged	300011	300012	300013

	APPLICATION INF (Vehicle, Serial #, and Er		ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
D5B	(8Z1-Up		•••••••		
	3306	26X878-Up 21Y878-Up	10z1-Up 13Z1-Up 1AF1-Up	Spacer Plated Non Turbocharged	306071	306072	306073
D5C	3204	3MK1-Up 6PJ1-Up	45V97770-Up 7YJ1-Up	Turbocharged Engine W/ Large Oil Cooler	204091	204092	204093
D5H	3304	1DC1-Up 7NC1-Up 8RC1-Up 9HC1-Up	12Z10967-Up	Spacer Plated Turbocharged	304091	304092	304093
D6C	3306	17R1-464 10K1-7952 46J1-868 47J1-2559 99J1-1753		Non Spacer Plated Non Turbocharged	306041	306042	306043
D6C	3306	10K7953-Up 46J869-Up 47J2560-Up 99J1754-Up 69U316-Up 17R465-Up		Non Spacer Plated Turbocharged * Order Aftercooler Gasket Kit Separately if Required	306111*	306112*	306113*
D6C D6D	3306	19Х1-Up 20Х1-Up 46J1-Up 47J1-Up	49V1-24230	Non Spacer Plated Turbocharged Engine * Order Aftercooler Gasket Kit Separately if Required	306031*	306032*	306033*
D6D	3306	3X1-Up 4X1-Up 5X1-Up 6X1-Up 19X1-Up 20X1-Up 30X1-Up 31X1-Up 32X1-Up	3N1-77760 3N1-79762 44V1-22286 44V1-22350 47V1-17093	Non Spacer Plated Turbocharged	306121*	306122*	306123*
		0 <u></u> 2,7,7 0p		* Order Aftercooler Gasket Kit Separately if Required			
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

0	APPLICATION INFORMATI		ENGINE	REMARKS	OUT OF FRAME		CYL HEAD
(V D6R	/ehicle, Serial #, and Engine Des		SERIAL #		OVERHAUL	OVERHAUL	REPLACE
	A A A A A A A A A A A A A A A A A A A	AX1-Up ACJ1-Up ACJ1-Up AEH1-U AEP1-Up GM1-Up 3LE1-Up 3LE1-Up 3LT1-Up 3MJ1-Up 3MJ1-Up 3MY1-Up 3PP1-Up 3PP1-Up 3RE1-Up 3RJ1-Up 3RJ1-Up 2AD1-Up DAE1-Up 5DT1-Up	SAN1-Up 4ZF1-Up		C90021NLS	C90012NLS	C90013
D6R	[[[[[[[[[[[[[[[[[[[DLM-Up DLM-Up DPS-Up SJB1-Up SMT1-Up ICD1-Up ICD1-Up IDL1-Up IDL1-Up ITJ1-Up ATJ1-Up IRT1-Up ITJ1-Up IFC1-Up IBC1-Up	THX1-IP THY1-Up		C90031	C90032NLS	C90033
D6T	C9 J	IHB1-Up	THX1-Up		C90091NLS	C90092NLS	C90093
D7F		3N1-1174 4N1-5191		Non Spacer Plated Turbocharged	306041	306042	306043
D7G	3306		3N1-79762 44V1-22402* *Approximate Please note that serial numbers vary concerning spacer or non spacer	Non Spacer Plated Turbocharged * Order Aftercooler Gasket Kit Separately if Required	306121*	306122*	306123*
D7G	3306		3N79763-Up 44V22403-Up* 62Z1-Up *Approximate Please note that serial numbers vary concerning spacer or non spacer	Spacer Plated Turbocharged P.C.	306021	306022*	306023*

	APPLICATION INFOR (Vehicle, Serial #, and Engir		ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
D7G	3306		8Z1-26213	Spacer Plated Turbocharged D.I. Engine * Order Aftercooler Gasket Kit Separately if Required	306281*	306282*	306283*
D7H	3306		8Z26214-Up	Spacer Plated Turbocharged D.I. Engine * Order Aftercooler Gasket Kit Separately if Required	306281*	306282*	306283*
D7R	3176C	ABJ1-Up ACS1-Up ADW1-Up AEC1-Up AFG1-Up AGN1-Up BNM1-Up	7ZR1-Up	STRAIGHT HEAD GASKET	176011STRNLS	176012STRNLS	176013STR
		BNMI-Op BNX1-Up BPK1-Up BPT1-Up BRP1-Up BRM1-Up					
D8H	D342	36A1-4468 46A1-10724 68A1-10724		Non Spacer Plated Turbocharged	342021*	342022	342023
				* Note: Rear Crankshaft Seal Not Included 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	342031*	342032	342033
D8K	D342	76V1-600 77V1-8528	17S1-Up 50V1-Up	Single Head Replacement Set Non Spacer Plated Turbocharger	342011*	342012	342013
			•	* Note: Rear Crankshaft Seal Not Included			
D8K	D342	76V601-Up 77V8529-Up	17S1-Up 50V1-Up	Single Head Replacement Set Spacer Plated Turbocharger * Note: Rear Crankshaft Seal Not Included Single Head Replacement Set	342041*	342042	342043
D8L				Single nead Replacement Set			342014
	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	3406	5TJ 1-Up	11N4939-Up	Fuel Pump Installation Set Non Aftercooled W/24 Bolt Flywheel Housing With the fuel of the set of	406391	406392	406039 406393
D8N	3406	7TK 1-Up	11N7050-Up	Fuel Pump Installation Set Aftercooled W/19 Bolt Flywheel Housing Fuel Pump Installation Set	406191	406192	406039 406193
D8R	3406	7XM1-Up 9EM1-Up	11N12940-Up 41Z286-Up	Fuel Pump Installation Set Aftercooled W/24 Bolt Flywheel Housing	406391	406392	406039 406393
		эсійн-өр	412200-0p	Fuel Pump Installation Set			406039
D8R	3406E	AKA1-Up 6YZ1-Up	BET1-Up	Spacer Plated Turbocharged Engine	406401	406402	406403

	APPLICATION IN (Vehicle, Serial #, and E		ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
D8T	C15	J8B1-Up KBZ1-Up	LHX1-Up	Single Lip Rear Seal Includes Fuel Injector Seal Exhaust Manifold Gaskets Not Included	C15071NLS	C15072NLS	C15073
D8T	C15	FCT1-Up MLN1-Up	TXL1-Up	Double Lip Rear Seal Includes Fuel Injector Seal Exhaust Manifold Gaskets Not Included	C15091NLS	C15092NLS	C15093
D9G	D353	66A 1-1644		Non Spacer Plated P.C. Engine	353111	353112	353113
D9G	D353	66A 1645-Up		Non Spacer Plated P.C. Engine	353121	353122	353123
D9H	D353	90V1-Up 97V1-Up 98V1-Up 98V1-Up	97U1-7921	Non Spacer Plated P.C. Engine	353131	353132	353133
				Single Head Replacement Set			353134
D9H	D353	90V1-Up 97V1-Up 98V1-Up 98V1-Up	97U7922-Up	Spacer Plated P.C. Engine	353011	353012	353013
				Single Head Replacement Set			353014
D9L	3412	14Y 1-Up	73W1224-Up	D.I. Engine	412041		
D9N	3408	1JD1-Up 6XJ1-Up	48W23086-Up 48W35650-Up	D.I. Engine	408131	408132	408133
D9R	3408	7TL1-Up 8BL1-Up	99C1-Up 48W1-Up	HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included	408381		408363
D9T	3408E	7TL1-Up ABK1-Up ACL1-Up	5XD1-Up		408111NLS	408112NLS	408113
D9T	C18	RJS1-Up	RHX1-Up	Does Not Include Exhaust Manifold Gaskets Includes Fuel Injector Seals	C18001NLS	C18002NLS	C18003
D9T	C18	TWG1-Up	TXW1047-Up	Injector Seals Included	C18181NLS	C18182NLS	C18183
D10	D348	84W1-609 76X1-363	98S1-1454	Head Gasket Not Included Single Head Replacement Set - Head Gasket Not Included	348031WOHGNLS		348044WOHG
				Cylinder Block Repair Shim Set			348099
D10	D348	84W610-Up 76X364-Up	98S1455-Up		348041WOHGNLS		
				Single Head Replacement Set - Head Gasket Not Included Cylinder Block Repair Shim Set			348044WOHG 348099
D10N	3412	2YD 1-Up	73W8338-Up	D.I. Engine	412071	412072	412073
D10N	3412E	3SK1-Up	5JJ4562-Up	Single Head Replacement Set DOES NOT INCLUDE 8 OF 1007401 EXHAUST MANIFOLD SEGMENT	IN DEVELOPMENT		412074
D10N	3412	2YD1-Up BCR1-Up	5JJ4562-Up	SEAL OR AFTERCOOLER GASKETS D.I. Engine	412021NLS	412022NLS	412023
D10R	3412	3KR 1-Up	80M1-Up	Бл. Енупо	4120211123	TIZUZZINLO	412023
		- r	r	HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included			412374
D10R	3412E	AKT1-Up	5JJ4562-Up	DOES NOT INCLUDE 8 OF 1007401 EXHAUST MANIFOLD SEGMENT SEAL OR AFTERCOOLER GASKETS	412021NLS	412022NLS	412023
D10T	C27	RJG1-Up	EHX1-Up		C27021NLS	C27022NLS	C27023
D11N	3508	74Z 1-Up	99W1-Up		508011		508013
DIAN	2500		70000 115	Single Head Replacement Set	502024		508014
D11N	3508	4HK 1-Up	7YG203-Up	Single Lip Crankshaft Seals Single Head Replacement Set DOES NOT INCLUDE 6V6640 GASKET MAKER FOR REAR COVER	508021		508023 508024
D11R	3508	8ZR 1-Up	7YG1-Up	DOLS NOT INCLUDE 000040 GASKET WAKER FOR REAR COVER		In Development	
Dink.	3300		7101-00			in Development	

Mahi	APPLICATION INF icle, Serial #, and Er		ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
D11R	icie, Serial #, and Er		SERIAL #		OVERHAUL	OVERHAUL	REPLACE
טווע	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
MOTOR GR	ADERS						
12F	3306	89H1-1537 13K1-5286		Non Spacer Plated Non Turbocharged	306041	306042	306043
12F	3306		3N1-79762	Non Spacer Plated	306031	306032	306033
12G	0000		ontri roroz	Non Turbocharged	000001	000002	000000
12F 12G	3306		3N79763-Up	Spacer Plated Non Turbocharged	306011	306012	306013
12G		3WC1-Up					
12H	3306	4ER1-Up 61M1-Up 8MN1-Up	8Z1-Up	Spacer Plated Non Turbocharged	306071	306072	306073
12G 12H	3306	3WC1-Up 4ER1-Up 61M1-Up 8MN1-Up	8Z1-Up	Spacer Plated Turbocharged	306271	306272	306273
12G 12H	3306	2WR1-Up 3PL1-Up	8TD1-Up			In Development	
12HES	3306	2LR	8Z1-Up			In Development	
12HNS	3306	4XM	8Z1-Up			In Development	
14E	3306	72G1-1340 12K1-2198		Non Spacer Plated Turbocharged	306151	306152	306153
14E 14G	3306		3N1-79762	Non Spacer Plated Turbocharged	306161	306162	306163
14E 14G	3306		3N79763-Up	Spacer Plated Turbocharged	306021	306022	306023
14G 14H	3306	96U1-Up 6WM1-Up 7WJ1-Up	8Z1-Up	Spacer Plated Turbocharged	306271	306272	306273
				* Order Aftercooler Gasket Kit Separately if Required			
14H	3176C	ASE 1-Up	3PD 1-Up	STRAIGHT HEAD GASKET	176021STRNLS	176022STRNLS	176023STR
16	D343	49G 1-Up				In Development	
16G	3406	93U1179-2678	70V4105-Up		406241	406242	406243
16G	3406	93U2679-Up	70V36899-Up 11N1449-Up	DITA W/24 Bolt Flywheel Housing	406341	406342	406343
16H	3406	6ZJ 1-Up	11N13000-Up 41Z1-Up	Fuel Pump Installation Set DITA W/24 Bolt Flywheel Housing Fuel Pump Installation Set	406341	406342	406039 406343 406039
16M	C13	R9H1-Up	MHX1-Up	Wet Rear Housing W/MLS (Multiple Layer Steel) Head Gasket	C13071NLS	C13072NLS	C13073
24M	C18	B9K1-Up	RHX1-Up	Includes Fuel Injector Seal Exhaust Manifold Gaskets Not Included	C18111NLS	C18112NLS	C18113
112F	3304	80J1-402 89J1-1895		Non Spacer Plated Non Turbocharged	304131	304012	304013
112F	3304	80J403-Up 89J1896-Up		Non Spacer Plated Non Turbocharged	304031	304032	304033
112F	3304	090-080-04	78P1-Up	Non Spacer Plated Non Turbocharged	304031	304032	304033

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

	APPLICATION INF		ENGINE	REMARKS	OUT OF FRAME	IN FRAME	CYL HEAD
	cle, Serial #, and Er	ngine Designation)	SERIAL #	KEWARKS	OVERHAUL	OVERHAUL	REPLACE
EXCAVATOR							
205B	3114	5ZF1-Up	2FG1-Up	Dry Rear Housing	114021	114012	114013
206B	3114	9FB1-Up	2FG1-Up	Dry Rear Housing	114021	114012	114013
211B	3114	6XG1-Up	2FG1-Up	Dry Rear Housing	114021	114012	114013
212B	3114	3PJ1-Up	2FG1-Up	Dry Rear Housing	114021	114012	114013
213B	3116	1EJ 1-Up	4TF1-Up		116031		116023
214B	3116	4CF 1-Up	4TF1-Up		116031		116023
214BFT	3116	9MF 1-Up	4TF1-Up		116031		116023
215	3304	96L 1-Up	48V20897-Up	Non Turbocharged	304121		
215		57Y857-Up	10X1-Up				
	3204	14Z649-Up	10X5411-Up	Turbocharged	204051	204052	204053
		61Z139-Up	10X5411-Up				
215B				Spacer Plated			
	3304	9YB 1-Up	12Z6564 -Up	Turbocharged	304091	304092	304093
				D.I. Engine			
215B	2204	2XC1-Up	4EV/2E944 Lip	Turbashargad	204051	204052	204052
	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	0.400	51U1-2831			100001	(00000	100000
	3160	61X1-380	79V1-4926	Non Turbocharged	160021	160022	160023
225	3208NA	51U2832-Up 61X381-Up	79V4927-Up	Non Turbocharged	208061	208062	208063
225				Non Spacer Plated			
	3304	76U1-3764	48V1-Up	Turbocharged	304041	304042	304043
	0004	10010104	4011.00	P.C. Engine	00-0-1	004042	00+0+0
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		
223D 231D	5504	2L3 1-0p	1221-0p		208061		
2310		1NK1-Up			and		
	3208	5WJ1-Up	79V1-Up		6V8045 Turbo		
		5WJ1-0P			Mounting kit		
235				Non Spacer Plated	Mounting Kit		
235	3306	6404 1057	3N1-79762	Turbocharged	206161	206162	206162
	3300	64R1-1257	49V1-24220	P.C. Engine	306161	306162	306163
005							
235	0000		0170700 11-	Spacer Plated	200001	000000	000000
	3306		3N79763-Up		306021	306022	306023
		001/1 0077		P.C. Engine			
235		32K1-2677					
	00000	64R1258-Up	8Z1-Up	Spacer Plated		000.000	000.000
	3306	62X289-Up	13Z1-Up	Turbocharged	306431	306432	306433
		91X408-Up	1021 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
	3300	7WC1-Up	13Z10595-15162		300431	300432	300433
		9PC1-Up		D.I. Engine .			
		•		* Order Aftercooler Gasket Kit Separately if Required			
235C		2PG1-Up					
	0000	3WG1-Up	8Z41870-Up	Spacer Plated	000 / 0 / t	000 100+	000 100*
	3306	4DG1-Up	13Z15163-Up	Turbocharged	306431*	306432*	306433*
		5AF1-Up		D.I. Engine			
				* Order Aftercooler Gasket Kit Separately if Required			

	APPLICATION INF		ENGINE	REMARKS	OUT OF FRAME	IN FRAME	CYL HEAD
(Ve	ehicle, Serial #, and E		SERIAL #	KLIMAKK5	OVERHAUL	OVERHAUL	REPLACE
235D	3306	8KJ 1-Up	8Z1-Up		306431	306432	306433
				* Order Aftercooler Gasket Kit Separately if Required			
235D	3306	8TJ1-Up	13Z1-Up		306421	306432	306433
245		95V731-Up		Spacer Plated			
	3406	82X475-Up	70V4578-Up	Turbocharged	406091	406092	406093
		84X4751-Up		P.C. or D.I Engines			100000
				Fuel Pump Installation Set			406039
245B	3406	1SJ1-Up	70V26356-Up	Spacer Plated	406181	406182	406183
		6MF1-Up	•	Turbocharged			100000
2450				Fuel Pump Installation Set			406039
245B	3406	1SJ713-Up	11111	Spacer Plated Turbocharged	406181	406182	106192
	3406	6MF513-Up	11N1-Up		400181	400182	406183
				D.I. Engine			400000
245D				Fuel Pump Installation Set			406039
2450	3406	4LK1-Up	11111	Spacer Plated	406181	406182	406183
	3400	7ZJ1-Up	11N1-Up	Turbocharged D.I. Engine	400181	400102	400103
				Fuel Pump Installation Set			406039
320		4ZJ1-Up	1CK1-Up				400039
320	3116	7WK1-Up	4TF1-Up		116031		116023
320L		1TL1-Up	1CK1-Up				
320L	3116	3XK1-Up	4TF1-Up		116031		116023
320N	3116	9WG 1-Up	4TF1-Up		116031		116023
320N	3116	6KM 1-Up	4TF1-Up		116031		116023
3203	3116	7WL 1-Up	1CK1-Up		116031		116023
322B	3116	3NR 1-Up	1CK1-Up		116031		116023
322BL		1YS1-Up	98Z1-Up				
JZZDL	3116	5CR1-Up	1CK1-Up		116031		116023
322L		8CL1-Up	98Z1-Up				
JZZL	3116	8ML1-Up	1CK1-Up		116031		116023
	0110	9RL1-Up	4TF1-Up		110001		110020
322LN	3116	4RM 1-Up	4TF1-Up		116031		116023
322N	3116	9JL 1-Up	4TF1-Up		116031		116023
324D		A3R 1-Up					
	C7	BYS 1-Up	C7C 1-Up			C70082	C70083
324D		BFC1-Up					
		C3N1-Up				0=0000	
	C7	EDF1-Up	C7C 1-Up			C70062	C70063
		EJC1-Up					
324D		CJX1-Up					
-		DFP1-Up					
		TSN1-Up					
		AZP1-UP					
		DBH1-Up					
		ERK1-Up					
	C7	KBE1-Up	KHX1-Up			C70072	C70073
		KDG1-Up					
		T2S1-Up					
		BYS1-Up					
		DFJ1-Up					
		MNB1-Up					
		RSK1-Up					
324D		LAL1-Up	C7C1-Up			070070	070070
	C7	TPM1-Up	KHX1-Up			C70072	C70073

	APPLICATION INF		ENGINE	REMARKS	OUT OF FRAME	IN FRAME	CYL HEAD
	Vehicle, Serial #, and Er		SERIAL #		OVERHAUL	OVERHAUL	REPLACE
324D	C7	AZP1-Up BFC1-Up BZW1-Up C3N1-Up C4H1-Up C8L1-Up C9M1-Up	KHX 1-Up			C70082	C70083
325	3116	6RM1-Up 7TG1-Up 8JG1-Up 8NL1-Up 8YK1-Up 9SG1-Up	98Z1-Up 1CK1-Up 4TF1-Up		116031		116023
325B	3116	8GM1-Up 8PR1-Up	4TF1-Up		116031		116023
325BL	3116	1GS1-Up 2JR1-Up 7EN1-Up 8RR1-Up	98Z1-Up 4TF1-Up		116031		116023
325D	C7	GBR1-Up GBP1-Up KAY1-Up KRJ1-Up MCL1-Up PKE1-Up	C7C 1-Up			C70062	C70063
325D	C7	DBH1-Up JZR1-Up KBE1-Up KGG1-Up LAB1-Up LAL1-Up LGN1-Up MKR1-Up MNB1-Up SCR1-Up	С7С 1-Up			C70082	C70083
325D	C7	TSN1-Up DBH1-Up DJF1-Up EBM1-Up GBP1-Up JCL1-Up GBR1-Up JGK1-Up JHJ1-Up JJG1-Up SCY1-Up SRC1-Up T2D1-Up TPM1-Up TSN1-Up	KHX1-Up			C70082	C70083
325L	3116	2JK1-Up 2SL1-Up 7CJ1-Up 7LJ1-Up 7LM1-Up 8NK1-Up	98Z1-Up 1CK1-Up 4TF1-Up		116031		116023

	APPLICATION INF icle, Serial #, and E		ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
325LN	3116	2SK1-Up 3LL1-Up	4TF1-Up		116031		116023
328D	C7	C3N1-Up	KHX 1-Up			C70082	C70083
329D		SCY1-Up	•				
	C7	SRC1-Up	C7C 1-Up			C70062	C70063
		SYM1-Up					
329D	C7	TRH 1-Up	C7C1-Up KHX1-Up			C70062	C70063
329D		C7K1-Up					
		H3N1-Up					
	C7	JKR1-Up	KHX 1-Up			C70082	C70083
		WDK1-Up					
		XDB1-Up					
329D		GPB1-Up					
		NAC1-Up					
	C7	PAL1-Up	C7C 1-Up			C70082	C70083
		PKE1-Up					
		RJK1-Up WDK1-Up					
330		6ZK1-Up					
550		8RL1-Up					
		9NG1-Up					
	3306	9PJ1-Up	10Z1-Up			In Development	
		9WJ1-Up	10 <u> </u>				
330BL		JCM1-Up					
		KBC1-Up					
		KGB1-Up					
		KKK1-Up					
	3306	MMA1-Up	8Z1-Up	* Order Aftercooler Gasket Kit Separately if Required	306431		
		MNZ1-Up	•				
		SBE1-Up T2E1-Up					
		T2F1-Up					
		WAW1-Up					
330C		B1K1-Up					
		CAP1-Up					
	C9	JCD1-Up	4ZF1-Up		C90021NLS	C90022NLS	C90023
		JNK1-Up	SAN1-Up				
		MKM1-Up					
330C		B2L1-Up					
		B3M1-Up	4ZF1Up				
	C9	B4N1-Up	THY1-Up	<u> </u>	C90051NLS	C90052NLS	C90053
		DKY1-Up					
330D		KDD1-Up					
3300		B6H1-Up MWP1-Up					
		H3D1-Up					
		JLP1-Up	THX1-Up				
	C9	LRM1-Up	THY1-Up		C90041NLS	C90042NLS	C90043
		MAG1-Up	iiiii-op				
		MEY1-Up					
		NBD1-Up					

			ENGINE	REMARKS	OUT OF FRAME	IN FRAME	CYL HEAD
	C9 ERN1- GGE1- PCL1- RAS1- THJ1- C9 FFK1- C9 FFK1- T2Y1- 3306 8HK1- 9FL1- 3306 8HK1- 9FL1-		SERIAL #		OVERHAUL	OVERHAUL	REPLACE
330D		D3D1-Up					
	C9		4ZF1-Up		C90051NLS	C90052NLS	C90053
		PCL1-Up	THY1-Up				
		RAS1-Up					
		THJ1-Up					
30D		EAH1-Up					
330L	C9	FFK1-Up	THX1-Up		C90061NLS	C90062NLS	C90063
		T2Y1-Up					
350		8HK1-Up					
350L	3306	9FL1-Up	8Z1-Up		306431	306432	306433
		0121.00		Note: Rear Housing liquid gasket maker is Not included			
				* Order Aftercooler Gasket Kit Separately if Required			
350		8HK1-Up	107111		000101	000400	
350L	3306	9FL1-Up	13Z1-Up		306431	306432	306433
		0121.00		Note: Rear Housing liquid gasket maker is Not included			
				* Order Aftercooler Gasket Kit Separately if Required			
75		4 18 44 1 1-		Order Altercooler Gasket Kit Separatery if Required			
375		1JM1-Up					
875L	3406C	6Nk1-Up	11N1-Up		406181	406182	406183
		8WJ1-Up	41Z1-Up				
		9WL1-Up					
				Fuel Pump Installation Set			406039
85C		EAM1-Up					
	C18	EDA1-Up	RHX1-Up	Includes Fuel Injector Seal Exhaust Manifold Gaskets Not Included	C18121NLS	C18122NLS	C18123
		GLT1-Up					
5080		6XK1-Up					
	3406	8SL1-Up	11N1-Up			In Development	
	3400	0021-00	TINI-Op			in Development	
				Fuel Pump Installation Set			406039
5130	2500	5ZL1-Up	7//04 11m			In Development	
	3508	7TJ1-Up	7YG1-Up			In Development	
5130B		· · · · · ·		EUI Engine			
	3508B	4CS 1-Up	2GR1-Up	Non-ceramic Exhaust Manifolds	508121		508123
				Single Head Replacement			508124
5230	3516	7LL1-Up	2PK1-Up	oingio nead replacement		In Development	000124
	3310		2FR1-0p				
E110B	3114	5GK1-Up	2ZF1-Up	Dry Rear Housing	114021	114012	114013
		8MF1-Up	•	, ,			
E120B	3114	4XF1-Up	2ZF1-Up	Dry Rear Housing	114021	114012	114013
		6JF1-Up	•	Bry Roal Housing		111012	
E200B	3116	6KF 1-Up	4TF1-Up		116031		116023
EL200B	3116	7FD 1-Up	4TF1-Up		116031		116023
E240B	0440	8SF1-Up	•		410004		
	3116	9PF1-Up	1CK1-Up		116031		116023
EL240B		5WG1-Up					
	3116	6MG1-Up	1CK-1-Up		116031		116023
E240C	3116	2RL 1-Up	10K1 Up		116031		116023
			1CK1-Up		110031	In Dovelanment	110023
L240C	3116	9PK1-Up	1CK1-Up	On a sea Distant		in Development	
E300				Spacer Plated			
	3306	2CF101-Up	10Z-9394-Up	Turbocharged	306431*	306432*	306433*
				D.I. Engine			
				* Order Aftercooler Gasket Kit Separately if Required			
E300B				Spacer Plated			
	3306	1WJ 1-Up	10Z16955-Up	Turbocharged	306431*	306432*	306433*
				D.I. Engine	200101		000100
				* Order Aftercooler Gasket Kit Separately if Required			
				order Altercovier Gasker Alt Separately II Required		In Development 114012 114012 In Development 306432* 306432*	

(Veh	APPLICATION I nicle, Serial #, and	NFORMATION Engine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
EL300	3306	4NF101-Up	10Z9394-Up	Spacer Plated Turbocharged D.I. Engine * 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 ALD1-Up ALB1-Up BFG1-Up ANJ1-Up BFG1-Up DCW1-Up DCW1-Up DET1-Up FEE1-Up CCC1-Up CDJ1-Up ALP	7ZR1-Up	Straight Style Head Gasket	176001STRNLS	176002STRNLS	176003STR
345B	3176C	2NW1-Up 2SW1-Up 2ZW1-Up 3MW1-Up 4SS1-Up 5WS1-Up 6XS1-Up 7KS1-Up 9GS1-Up AKJ1-Up AKX1-Up ALB1-Up ALD1-Up ANJ1-Up BFG1-Up APG1-Up DCW1-Up DET1-Up FEE1-Up CCC1-Up CDJ1-Up	7ZR1-Up	Scalloped Style Head Gasket	176001SCLNLS	176002SCLNLS	176003SCL
345D	C13	EEH1-UP RAJ1-UP	MHX1-UP	(Wet) Double Lip Rear Seal With MLS (Multiple Layer Steel) Head Gasket	C13091NLS	C13092NLS	C13093
BACKHOE					444004	111010	444040
446 446B	3114	6XF1-Up	2FG1-Up 97Z1-Up	Dry Rear Housing	114021	114012	114013
4400	3114	5BL1-Up	2FG1-Up	Dry Rear Housing	114021	114012	114013
446B	3114	5BL1-2499	4RR1-Up	Dry Rear Housing	114021	114012	114013
446D	3114	DBL1-Up	2FG1-Up	Dry Rear Housing	114021	114012	114013
SKIDDERS 518	3304	50S1-956 55U1-151		Non Spacer Plated Turbocharged P.C. Engine	304021	304022	304023
518	3304		78P1-47087	Non Spacer Plated Turbocharged P.C. Engine	304041	304042	304043
518	3304		78P47088-Up	Spacer Plated Turbocharged P.C. Engine	304071	304072	304073
518 518C	3304	94U192499 95U1-3199	7Z 1-22263	Spacer Plated Turbocharged D.I. Engine	304081	304082	304083
518 518C	3304	94U2500-Up 95U3200-Up 1CL1-Up 9HJ1-Up	7Z22264-Up 7Z22264-Up 7Z28000-Up 7Z28000-Up	Spacer Plated Turbocharged D.I. Engine	304111	304082	304083
525	3304	1DN 1-Up	7Z1-Up		304081	304082	304083

	APPLICATION INFOR (Vehicle, Serial #, and Engin		ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
528	3306	51S 1-67		Non Spacer Plated Turbocharged P.C. Engine	306151	306152	306153
528	3306		3N1-79762	Non Spacer Plated Turbocharged P.C. Engine	306161	306162	306163
528	3306		3N79763-Up	Spacer Plated Turbocharged P.C. Engine	306021	306022	306023
528	3306	96C1-Up 97C1-Up 78W1-Up	8Z1-Up	Spacer Plated Turbocharged D.I. Engine	306271	306272	306273
PIPEL	AYERS						
561C	3306	92J 1-390		Non Spacer Plated Non Turbocharged P.C. Engine	306041	306042	306043
561C 561D	3306		3N1-79762	Non Spacer Plated Non Turbocharged P.C. Engine	306031	306032	306033
561C 561D	3306		3N79763-Up	Spacer Plated NonTurbocharged P.C. Engine	306011	306012	306013
561D	3306	54X 1-Up	8Z1-Up	Spacer Plated NonTurbocharged D.I. Engine	306071	306072	306073
571F 572F	3306	95N1-192 96N1-178		Non Spacer Plated Non Turbocharged P.C. Engine	306041	306042	306043
				Rear P.T.O. Gasket Set			306289
571F 571G 572F 572G	3306		3N1-79762	Non Spacer Plated Turbocharged P.C. Engine	306121	306122	306123
				Rear P.T.O. Gasket Set			306289
571F 571G 572F 572G	3306		3N79763-Up	Spacer Plated Turbocharged P.C. Engine	306021	306022	306023
				Rear P.T.O. Gasket Set			306289
571F 571G 572F 572G	3306	40U1-Up 5ZD1-Up	8Z1-Up	Spacer Plated Turbocharged D.I. Engine	306281	306282	306283
5720				Rear P.T.O. Gasket Set * Order Aftercooler Gasket Kit Separately if Required			306289
583K	D342	78V1-Up	17S1-Up				342043
589	3408	31Z 1-Up	48W1-Up		408141		
594H	D353	96V1-Up	97U1-97U7921		353131		
	ERIES WHEEL TRACTORS AN	ND SCRAPERS					
613	3160 Front Engine	71M1-4125	98M1-Up	Non Turbocharged Engine	160021	160022	160023
613B	3160 Front Engine	38W1-5538	79V1-5380	Non Turbocharged Engine		208012	208013
613B	3208 Front Engine	38W 5539-Up	79V5381-Up	Non Turbocharged Engine	208011	208012	208013

	APPLICATION INFO (Vehicle, Serial #, and Eng		ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
613C	3116 Front Engine	93X2780-Up	98Z1-Up		116021		116023
613C	3116 Front Engine	8LJ1-Up 9FM1-Up	4TF1-Up		116021		116023
615	3306 Front Engine	46Z 1-Up	8Z1-Up		306421*	306062*	306063*
615C	3306 Front Engine	5TF1-Up 9XG1-Up 2XG1-Up	8Z1-Up 6NC1-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	406351	406352	406039 406353
621G	3406E	ALP1-Up CEN1-Up	BET1-Up	Fuel Pump Installation Set Spacer Plated Turbocharged Engine	406321	406322	406039 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 CES1-Up	BET1-Up	Fuel Pump Installation Set Spacer Plated Turbocharged Engines	406361	406362	406039 406363
627	3306 Front Engine	54K1-842 68M1-789		Non Spacer Plated Turbocharged P.C.	306131*	306132*	306133*
	3306 Rear Engine	50K1-Up 69M1-789		Non Spacer Plated Turbocharged P.C. * Order Aftercooler Gasket Kit Separately if Required	306131*	306132*	306133*
627 627B	3306 Front Engine	14S1-Up 15S1-Up	3N1-79762	Non Spacer Plated Turbocharged P.C.	306141	306142*	306143*
	3306 Rear Engine	37V1-Up 38V1-Up	3N1-79762	Non Spacer Plated Turbocharged P.C.	306141	306142*	306143*
	-			* Order Aftercooler Gasket Kit Separately if Required			

(Ve	APPLICATION IN ehicle, Serial #, and E		ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
627	3306			Spacer Plated			
627B	Front	14S1-Up 15S1-Up	3N79763-Up	Turbocharged	306021	306022*	306023*
	Engine	1551-0p		P.C.			
	3306	37V1-Up		Spacer Plated			
	Rear	38V1-Up	3N79763-Up	Turbocharged	306021	306022*	306023*
	Engine	30V I-OP		P.C.			
627B	3306	1404 11-		Spacer Plated			
	Front	14S1-Up	8Z1-Up	Turbocharged	306421*	306062*	306063*
	Engine	15S1-Up	·	D.I.			
	3306			Spacer Plated			
	Rear	37V1-Up	8Z1-Up	, Turbocharged	306421*	306062*	306063*
	Engine	38V1-Up	on op	D.I.	000121	000002	
	Engino			* Order Aftercooler Gasket Kit Separately if Required			
627E	3306			Spacer Plated			
0276	Front	6EB1-Up	8Z33294-Up	Turbocharged	306411*	306/12*	306413*
		6GB1-Up	0233294-0p	D.I.	500411	500412	500415
	Engine 3306			Spacer Plated			
		6FB1-Up	0700000 11-		000404*	000440*	000440*
	Rear	6HB1-Up	8Z33309-Up	Turbocharged	306421*	306412	306413*
	Engine	·					
	· · · · · · ·			* Order Aftercooler Gasket Kit Separately if Required			
	3406	6FB1-Up		Spacer Plated			
	Rear	6HB1-Up	70V22150-Up	Turbocharged	406251	406252	406253
	Engine	опы-ор		D.I.			
				Fuel Pump Installation Set			406039
627E	3406			Spacer Plated			
	Front	7CG 1-Up	70V33955-Up	Turbocharged	406251	406252	406253
	Engine	•	•	D.I.			
	5			Fuel Pump Installation Set			406039
	3306			Spacer Plated			
	Rear	3WJ 1-Up	8Z5900-Up	Turbocharged	306421*	306/12*	306413*
	Engine	6000 T Op	020000 00	D.I.	000421	000412	000410
	Ligine			* Order Aftercooler Gasket Kit Separately if Required			
627F				Spacer Plated			
0275	3406						
	Front	1DL1-Up	11N7400-Up	Turbocharged	406251	406252	406253
	Engine	6BK1-Up		D.I.			
				W/19 Bolt Flywheel Housing			
				Fuel Pump Installation Set			406039
	3306			Spacer Plated			
	Rear	4YK1-Up	8Z72000-Up	Turbocharged	306421*	306412*	306413*
	Engine			D.I.			
				* Order Aftercooler Gasket Kit Separately if Required			
631	343			Spacer Plated			
	Front	67M 4581-Up		, Turbocharged	343071		
	Engine			P.C.			
631D	3408						
	Front	24W 1-Up	48W950-Up		408011	408012	408013
	Engine	21111100	1011000 0p		100011	100012	100010
	Ligine			Single Head Replacement Set			408014
631E	3408			eingie neue nopiedement oor			
00 IL		1401 1620	10\1/10060 11-		100111	400140	100112
	Front	1AB1-1639	48W19968-Up	D.I. Engine	408141	408142	408143
0045	Engine	4404041					
631E	3408	1AB1640-Up					
	Front	1BB1540-Up	99C1-Up		408371		408373
	Engine	1NB1390-Up					
				HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included			
631E	3408						
	Front	1NB390-Up	77M1-Up		408141		
	Engine		- 1				

	APPLICATION INF Vehicle, Serial #, and En		ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
631G	3408E						
	Front	AWK1-Up	5XD1-Up		408171NLS	408112NLS	408113
633	Engine 343			Spacer Plated			
033	Front	66M1-Up		Turbocharged	343071		
	Engine	00001-00		P.C.	040071		
633D	3408						
	Front	25W1-Up	48W950-Up		408011	408012	408013
	Engine			Single Head Replacement Set			408014
633E	3408E			Single head heplacement Set			400014
	Front	2PS1-Up	99C1-Up		408371		408373
	Engine						
	5040			HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT i	ncluded		
637	D343	65M430-Up		Spacer Plated	040074		
	Front Engine	79P527-Up		Turbocharged D.I. Engine	343071		
	3306	64M198-381		Non Spacer Plated			
	Rear	91N1-563		Turbocharged	306131*	306132*	306133*
	Engine	92N1-232		P.C. Engine	000101	000102	000100
	5			* Order Aftercooler Gasket Kit Separately if Required			
637B	3408						
637D	Front					In Development	
	Engine						
		20W1-Up					
	3306	21W1-Up	014 70700	Non Spacer Plated	000444	000440*	000440*
	Rear	22W1-Up 23W1-Up	3N1-79762	Turbocharged P.C. Engine	306141	306142*	306143*
	Engine	26R1-Up		F.G. Engine			
		2011-00		* Order Aftercooler Gasket Kit Separately if Required			
637B	3408						
637D	Front					In Development	
	Engine						
		20W1-Up					
	3306	21W1-Up	0120200 11	Spacer Plated	000004	000000*	
	Rear	22W1-Up	3N79763-Up		306021	306022*	306023
	Engine	23W1-Up 26R1-Up		P.C. Engine			
637D	3408	26W1-Up					
	Front	27W1-Up	48W950-Up		408011	408012	408013
	Engine	2.000					
	. <u> </u>	0014444		Single Head Replacement Set			408014
	2200	20W1-Up 21W1-Up		Chargen Distant			
	3306 Rear	21W1-Up 22W1-Up	8Z1-Up	Spacer Plated Turbocharged	306421*	306412*	306413*
	Engine	23W1-Up	021-0p	D.I. Engine	500421	500412	500415
	Ligino	4JB1-Up					
				* Order Aftercooler Gasket Kit Separately if Required			
637E	3408	1FB1-659		· ·			
	Front	1JB1-Up	48W19968-Up	D.I. Engine	408141	408142	408143
	Engine						
		1FB1-Up	99C1-Up		408371		408373
		7CB1-Up		HEIII (Hydraulia Electropia Unit Injector) O Pinge are NOT included			
	3306	1HB1-Up		HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included Spacer Plated			
	Rear	1LB1-Up	8Z1-Up	Turbocharged	306421*	306412*	306413*
	Engine	7CB1-Up	0 <u> </u>	D.I. Engine	000721	000712	000-10
1				* Order Aftercooler Gasket Kit Separately if Required			

	APPLICATION INFO (Vehicle, Serial #, and Eng		ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
637F	C18	DFG1-Up	RHX1-Up	Does Not Include Exhaust Manifold Gaskets Includes Fuel Injector Seals	C18021NLS	C18022NLS	C18023
637G	3408E	AXT1-Up	5XD1-Up		408171NLS	408112NLS	408113
639D	3408		•				
	Front	99X1-Up	48W950-Up		408011	408012	408013
	Engine			Single Head Replacement Set			408014
641B	D346B						100011
-	Front	65K1-Up		60 Degree V Engine	346011WOHGNLS		346013WOHG
	Engine						
				Single Head Replacement Set			346014WOHG
				Fuel System Rebuild Set			346009
	D0 10D			Cyl Block Repair Shim Set			346099
650B	D346B			60 Degree V/ Engine			24601210000
	Front Engine	58K1-Up		60 Degree V Engine	346011WOHGNLS		346013WOHG
	Engine			Single Head Replacement Set			346014WOHG
				Fuel System Rebuild Set			346009
				Cyl Block Repair Shim Set			346099
651B	D346B			-)		OVERHAUL C18022NLS 408112NLS 408012	010000
	Front	67K1-Up		60 Degree V Engine	346011WOHGNLS		346013WOHG
	Engine	·					
				Single Head Replacement Set			346014WOHG
				Fuel System Rebuild Set			346009
				Cyl Block Repair Shim Set			346099
651E	3412				440004		
	Front	89Z1-Up	73W4208-Up		412081	412082	412083
651E	Engine	4YR1-Up					412373
ODIE	3412	5XR1-Up	80M1-Up		412371		412373
		5ЛТТ-0р		HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included			412374
657B	D346B						
	Front	68K1-Up		60 Degree V Engine	346011WOHGNLS		346013WOHG
	Engine						
				Single Head Replacement Set			346014WOHG
				Fuel System Rebuild Set			346009
				Cyl Block Repair Shim Set			346099
	D343 Rear	47M91-Up	52K1-Up	Spacer Plated Engine	343031*		343033
	Engine	53K638-Up	52K1-0p	Spacer Flated Engine	343031		343033
				* Contains 5S3903 Silicone Lip Rear Crankshaft Seal Only			
				Fuel System Rebuild Set			343059
657E	3412	0074					
	Front	90Z1-Up 91Z1-Up	73W3857-Up		412081	412082	412083
	Engine	aizi-oh					
	3408						
	Rear	86Z1-Up	48W19999-Up		408141	408142	408143
	Engine			HEIII (Hydraulia Electronia Unit Injector) O Binga are NOT included			
657E		6PR1-Up		HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included			
	3408E	7KR1-Up	99C1-Up		408371		408373
657E		6TR1-Up	90M1 Um		440074		412373
	3412E	5YR1-Up	80M1-Up		412371		412374*
				HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included			
657G		A4G1-Up					
	C18	W1B1-Up	RHX1-Up	Includes Fuel Injector Seal Exhaust Manifold Gaskets Not Included	C18091NLS	C18092NLS	C18093
		W1C1-Up					

ſ	APPLICATION INFORMATION (Vehicle, Serial #, and Engine Designation)		ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
660B	D346B Front	58K 1-Up		60 Degree V Engine	346011		346013
	Engine			Single Head Replacement Set			346014
				Fuel System Rebuild Set			346009
				Cyl Block Repair Shim Set			346099
666B	D346B						010000
	Front Engine	66K 1-Up		60 Degree V Engine	346011		346013
	Engino			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
	IES OFF HIGHWAY TRUC	CKS, QUARRY TRUC	KS, COAL HAULER	S, AND WHEEL TRACTORS			
740	C11	B1M 1-Up	RSE 1-Up TXE 1-Up		C11011NLS	C11012NLS	C11013
768C	3408	2X1-Up	48W1-Up		408071	408072	408073
769B				Spacer Plated			
	D343	99F1792-Up	52K1-Up	Turbocharged	343051*	343052	343053
				P.C. Engine			
				* Note: Rear Crankshaft Seal Not Included			040050
769C	3408	1X 1-Up	48W1-Up	Fuel System Rebuild Set	408071	408072	343059 408073
769C 769D	3408	BBB1-Up	5JJ1-Up		In Development	400072	406073
769D		5TR-Up			•		
1000	3408	5SS1-Up	99C1-Up	HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included	408351		408373
771C	3408	3BJ 1-Up	48W37000-Up	Theor (Trydraune Electronic Onit injector) orkings are not included	408071		
771D	3408E	6JR 1-Up	99C1-Up		408351		408373
			F	HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included			
771D	3408	BCA1-Up	5XD1-Up		In Development		
772	D346B	80S1-Up		60 Degree V Engine	346031WOHGNLS		346033WOHG
	D340D	11S1-Up		Head Gskt Not Included	340031W011GINE3		
				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
				Cyl Block Repair Shim Set			346099
		63W1-Up		Fuel System Set			346009
773B	3412	63W 1-Up	73W1-Up	· ··· · · · · · · · · · · · · · · · ·	412061	412062	412063
773D	3412	7ER1-Up 7CS1-Up	80M1-Up	Includes Fuel Injector Seal Exhaust Manifold Gaskets Not Included	412361		412373
				Single Head Replacement Set HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included			412374
773E	3412	BDA1-Up	5JJ4562-Up	DOES NOT INCLUDE 8 OF 1007401 EXHAUST MANIFOLD SEGMENT SEAL OR AFTERCOOLER GASKETS	412021NLS	412022NLS	412023
773	C27	EED1-Up	EHX1-Up		C27031NLS	C27032NLS	C27033
775B	3412	EXD1-Up 7XJ1-Up	73W1-Up		412061	412062	412063
773E			ASK1-Up				
	3412	KPH1-Up	KEG1-Up		412191NLS	412192NLS	412193
775D	3412	6KR1-Up 8AS1-Up	80M1-Up		412361		412373
				Single Head Replacement Set			412374

HBU (Hyraulic Electronic Unit Injector) 0-Rings are NOT included C27011NLS C2701NLS C2701NLS C2701NLS C2701NLS C		APPLICATION INF (Vehicle, Serial #, and Eng		ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
L27 EYG 1.100 LXR Up LXR Up LXR Up LXR Up C2 /01/NKS C2					HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included			
Dota Hart Lup yes Head agaket Not Included Other Number 2 7768 3668 GUT-Up 900 'LUP 5000 'L	75F	C27		LJX1-Up		C27011NLS	C27012NLS	C27013
7768 3008 6UC1-Up 994 F-Up Single Head Replacement Set 500011 500021	76	D348	14H1-Up	98S1-Up	Head gasket Not Included	348011WOHGNLS		
Single Head Replacement Set 5080 2TR-Lup YrG-Lup Single Head Replacement Set 508021 50802 508021	700	0500	0.04.11	0014/4 11-	Cyl Block Repair Shim Set	500044		348099
Single Head Replacement Set Uncernet Recta water in Nauer on	76B	3508	6JC1-0p	99W1-Up	Single Head Benlacement Set	508011		508013 508014
Single Head Replacement Set Dorsk 107 KLUE swatch Set Manifolds 568121 568121 568	76C	3508	2TK1-Up	7YG1-Up	Single near replacement det	508021		508023
7760 3508B 5ER1-Up 2GR1-Up EUI Engine Non-ceramic Exhaust Manifolds 506121 506 777 D348 84A1-Up 9651-2685 Both Filter Grups Head gasket Not Included 348011WOHGNLS 348011WOHGNLS 777 D348 84A1-Up 9652-2685 Single Head Replacement Set Head Gask Not Included 348011WOHGNLS 777 D348 84A1-Up 9652-2685 Single Head Replacement Set Head Gask Not Included 34801 777 D348 84A1-Up 9652-2685 Single Head Replacement Set Head Gask Not Included 34801 7778 3508 3NF1-Up 9901-Up In Development 5080211 508021 5080								508024
3008 ben-up Auk-up Auk-up Non-ceramic Exhaust Manifolds 308/11 308/11 308 777 D348 84A1-up 9851-2085 Both Filter Groups 348011WOHGNLS 348011WOHGNLS 777 D348 84A1-up 9852668-Up 348011WOHGNLS 34801 777 D348 84A1-up 9852668-Up 34801 34801 7778 3508 4VC1-Up 99W1-up Single Head Replacement Set 50801 50801 50801 7776 3508 3VF1-up 99W1-up Single Head Replacement Set 508021 <t< td=""><td>76D</td><td>05000</td><td>5554.11</td><td>0004.11</td><td></td><td>500404</td><td></td><td></td></t<>	76D	05000	5554.11	0004.11		500404		
777 D348 84A1-Up 9851-2685 Both Filter Groups Head Replacement Set Head Gakt Not Included 348011WOHGNLS 777 D348 84A1-Up 9852868-Up 3480 3480 777 D348 84A1-Up 9852868-Up 3480 3480 7778 3508 4YC1-Up 999/1-Up 50801 50801 50801 7776 3508 3NF1-Up 999/1-Up in Development 50021 50 7776 3508 3NF1-Up 999/1-Up In Development 50021 50 7776 3508 3PR 1-UP 2GR1-Up EUI Engline 50021 50 7776 35088 3PR 1-UP 2GR1-Up EUI Engline 500021 50 7776 C32 TNM1-Up FKR-Up C32051NLS C32052NLS C3 7776 C32 TNM1-UP FXS1-UP C32051NLS C32052NLS C3 7776 C32 TNM1-UP F2S1-UP C32051NLS C32052NLS C3		3508B	5ER1-Up	2GR1-Up	Non-ceramic Exhaust Manifolds	508121		508123 508124
Single Head Replacement Set Head Gkt Not Included 3480 777 D348 841-Up 982288-Up 5 3492 7778 3508 4YC1-Up Single Head Replacement Set Head Gkt Not Included 508011 508011 508071	77	D348	84A1-Up	98S1-2685	Both Filter Groups	348011WOHGNLS		000121
Cyl Biok Repair Shim Set 93280-Up 93280								348014WOHG
Single Head Replacement Set Head Gakt Not Included 34802 T778 3508 4YCl-Up Single Head Replacement Set 500 3500								348099
Single Head Replacement Set indeperson	77	D348	84A1-Up	98S2686-Up	Single Head Replacement Set Head Gskt Not Included			348024WOHG
3508 3.NF I-Up 99W1-Up In Development 777C 3508 4XJ 1-Up 7YG1-Up 50g1 50 777D 3508B 3PR 1-Up 2GR1-Up Single Head Replacement Set 50 777D 3508B JDN1-Up FKR1-Up Single Head Replacement Set 50 777D 3508B JDN1-Up FKR1-UP Single Head Replacement Set 50 777G C32 RDR1-UP FKR1-UP C32051NLS C32052NLS C320	77B	3508	4YC1-Up	99W1-Up		508011		508013
777C 3508 4XJ 1-Up 7YG 1-Up Single Head Replacement Set bors Not MICLIDE PRIME FOR REAR COVER 508021 50 50 777D 3508B 3PR 1-Up 2GR 1-Up EUl Engine Non-carranic Exhaust Manifolds 508121 50 51 51 5					Single Head Replacement Set			508014
Single Head Replacement Set Does NOT NUCLE WORKD CARKET MAKER FOR REAR COVER 50 777D 3508B 3PR 1-Up 2GR1-Up FKR1-Up 50 777D 3508B JDN1-Up FKR1-Up Single Head Replacement Set 50 777G C32 RDR1-UP FKR1-UP C32051NLS C32051NLS C32052NLS C3 777G C32 TMM1-Up FZ51-UP C32051NLS C32052NLS C3 C32052NLS C32052NLS C3 C32052NLS C32052NLS C3 C32052NLS C3 C32042NLS C320						=00004	In Development	
777D 3508B 3PR 1-Up 2GR1-Up EUl Engine Non-ceramic Exhaust Manifolds 508121 50 777D 3508B JDN1-Up CS11-Up FKR1-Up FKR1-Up 508091NLS 50 777G C32 RDR1-UP FKR1-UP FKR1-UP C32051NLS C32052NLS C32042NLS C32052NLS C32052NLS C32052NLS C32052NLS	'77C	3508	4XJ 1-Up	7YG1-Up		508021		508023
30089 3PR 1-Up ZOR1-Up Non-ceramic Exhaust Manifolds 5081211 508121 5081211 5081311 5081311 5081311 5081311 5081311 5081311 5081311 5081311 5081311 5081311 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>508024</td>								508024
Single Head Replacement Set 500 777D 3508B JDN1-Up C811-UP FKR1-Up 500091NLS 500 500 777G C32 RDR1-UP FHS1-UP C32051NLS C32052NLS C35057 C35157	110	3508B	3PR 1-Up	2GR1-Up	0	508121		508123
777D JDN1-Up C81-Up C81-Up FKR1-Up 508091NLS 50 777G C32 RDR1-UP TMM-Up FHS1-UP C32051NLS C32051NLS C32052NLS								508124
777G C32 RDR1-UP TNM1-Up FHS1-UP C32051NLS C32052NLS C3205	77D	3508B		FKR1-Up		508091NLS		508093
777G C32 TNM1-Up FZS1-UP C32051NLS C32051NLS C32052NLS C32 777F C32 JXP1-UP LJW1-UP C32041NLS C32042NLS C32 784B 3512 5RK 1-Up 4WJ1-Up 512051 51 785 3512 8GB 1-Up 9621-Up 512051 51 785B 3512 6HK 1-Up 4WJ1-Up 512051 51 785C 3512 1HW 1-Up 8BR 1-Up 512061 51 785D DMC 1-Up 512061 51 51 785D M4J 1-Up B7F 1-Up 512061 51 789 3516 92C 1-Up 54Z1-Up 516051 51 789 3516 7EK 1-Up 2PK1-UP 516051 51 789 3516 7EK 1-Up 2PK1-Up 51 51 789 3516 7EK 1-Up 2PK1-Up 51 51 789 3516 3S11-Up 54Z1-Up 51	77G	C32	RDR1-UP	FHS1-UP		C32051NLS	C32052NLS	C32053
777F C32 JRP1-UP JXP1-UP LJW1-UP C32041NLS C32041NLS C32042NLS C32041NLS C32042NLS C32041NLS C32042NLS C32041NLS C32042NLS C32041NLS C32042NLS C32041NLS C32041NLS <thc32051< th=""> <thc33051< td="" th<=""><td>77G</td><td>C32</td><td></td><td>FZS1-UP</td><td></td><td>C32051NLS</td><td>C32052NLS</td><td>C32053</td></thc33051<></thc32051<>	77G	C32		FZS1-UP		C32051NLS	C32052NLS	C32053
784B 3512 5RK 1-Up 4WJ1-Up Single Head Replacement Set 512051 51 785 3512 8GB 1-Up 9621-Up 512051 51 785B 3512 6HK 1-Up 4WJ1-Up 512051 51 785C 3512 1HW 1-Up 8BR 1-Up 512061 51 785C 3512 1HW 1-Up 8BR 1-Up 512061 51 785D DMC 1-Up 8BR 1-Up 512061 51 3512 MJJ 1-Up B7F 1-Up 512081NLS 51 789 3516 9ZC 1-Up 54Z1-Up 516051 51 789 3516 7EK 1-Up 2PK1-Up 516051 51 789 3516 7EK 1-Up 2PK1-Up 516051 51 789 3516 7EK 1-Up 2PK1-Up 516051 51 793 3516 3SJ1-Up 54Z1-Up In Development 51 793 3516 HC1-Up 2PK1-Up In Development		C32				•		C32043
785 3512 8GB 1-Up 96Z1-Up 512051 51 785B 3512 0HK 1-Up 4WJ1-Up 512051 51 785C 3512 1HW 1-Up 8BR 1-Up 512061 51 785D DMC 1-Up BBR 1-Up 512061 51 3512 M4J 1-Up B7F 1-Up 512081NLS 51 3512 M4J 1-Up B7F 1-Up 512051 51 789 3516 9ZC 1-Up 5421-Up 516051 51 Single Head Replacement Set 50 Tringle Head Replacement Set 50 Single Head Replacement Set 50 Tringle Head Replacement Set 50 Single Head Replacement Set 50 Sing	'84B	3512		4WJ1-Up	Single Head Replacement Set	512051		512053 508024
785B 3512 6HK 1-Up 4WJ1-Up 512051 51 785C 3512 1HW 1-Up 8BR 1-Up 512061 51 785D DMC 1-Up 3512 MJJ 1-Up B7F 1-Up 512081NLS 51 785D MJ 1-Up B7F 1-Up 512081NLS 51 51 789 3516 9ZC 1-Up 54Z1-Up Single Head Replacement Set 50 789B 3516 7EK 1-Up 2PK1-Up Single Head Replacement Set 50 789C 3516 3SJ1-Up 54Z1-Up Single Head Replacement Set 50 789C 3516 3SJ1-Up 54Z1-Up In Development 50 789S 3516 3SJ1-Up 54Z1-Up In Development 50 793 3516 1HC1-Up 2PK1-Up In Development 50 793C 3516B 4AR1-Up 7TR1-Up EUI Engine 516171 51 793C 3516B 4AR1-Up 7TR1-Up EUI Engine 516171 <	85	3512	8GB 1-Up	96Z1-Up		512051		512053
785C 3512 1HW 1-Up 8BR 1-Up 512061 51 785D DMC 1-Up 3512 M4J 1-Up B7F 1-Up 512081NLS 51 789 3516 9ZC 1-Up 54Z1-Up 516051 51 789 3516 7EK 1-Up 516051 51 789B 3516 7EK 1-Up 2PK1-Up 516051 51 789C 3516B 2BW1-UP 7TR1-Up Single Head Replacement Set 50 789C 3516 3SJ1-Up 54Z1-Up 1n Development 793 3516 1HC1-Up 2PK1-Up 1n Development 793C 3516B 4AR1-Up 7TR1-Up EUI Engine Ceramic Exhaust Manifolds 516171 51 793C 3516B 4AR1-Up 7TR1-Up EUI Engine Ceramic Exhaust Manifolds 516171 51 793C 3516B 4AR1-Up 2FV1-UP 7TR1-Up 516171 51 793C 3516B 4TY1-UP 9WM1 UP 516181M UP 516181M UP 516181M UP								512053
3512 M4J 1-Up MSY 1-Up B7F 1-Up 512081NLS 51 789 3516 9ZC 1-Up 54Z1-Up 516051 51 789 3516 7EK 1-Up 2PK1-Up 510051 51 789 3516 7EK 1-Up 2PK1-Up 510051 51 789 3516 2BW1-UP 7TR1-Up 510051 51 793 3516 3SJ1-Up 54Z1-Up 1n Development 793 3516 3SJ1-Up 54Z1-Up 1n Development 793 3516 1HC1-Up 2PK1-Up 1n Development 793 3516B 4AR1-Up 4GZ1-Up 7TR1-Up EUI Engine Ceramic Exhaust Manifolds 516171 51 793 3516B 4AR1-Up 4GZ1-Up 7TR1-Up EUI Engine Ceramic Exhaust Manifolds 516171 51 793C 3516B 4AR1-Up 4GZ1-Up 7TR1-Up EUI Engine Ceramic Exhaust Manifolds 516171 51 793C 3516B 4AR1-Up 5164181NLS 51 51 51	'85C	3512	1HW 1-Up			512061		512063
789 3516 9ZC 1-Up 54Z1-Up Single Head Replacement Set 516051 51 789B 3516 7EK 1-Up 2PK1-Up Single Head Replacement Set 50 789B 3516 7EK 1-Up 2PK1-Up Single Head Replacement Set 50 789C 3516B 2BW1-UP 7TR1-Up 516181NLS 51 793 3516 3SJ1-Up 54Z1-Up In Development 793B 3516 1HC1-Up 2PK1-Up In Development 793C 3516B 4AR1-Up 4GZ1-Up 7TR1-Up EUI Engine Ceramic Exhaust Manifolds Single Head Replacement Set 516171 51 793C 3516B ATY1-UP PWM1 LIP 516181NLS 51	'85D	3512	M4J 1-Up	B7F 1-Up		512081NLS		512083
Single Head Replacement Set 50 789B 3516 7EK 1-Up 2PK1-Up 516051 51 789C 3516B 2BW1-UP 7TR1-Up 516181NLS 51 793 3516 3SJ1-Up 54Z1-Up In Development 51 793B 3516 1HC1-Up 2PK1-Up In Development 1 793C 3516B 4AR1-Up 4GZ1-Up 7TR1-Up EUI Engine Ceramic Exhaust Manifolds Single Head Replacement Set 516171 51 793C 3516B ATY1-UP PWM11 UP 516181NLS 51		0510		E 4 7 4 · ·		F10051		F40050
789B 3516 7EK 1-Up 2PK1-Up 5ingle Head Replacement Set 50 789C 3516B 2BW1-UP 7TR1-Up 516181NLS 51 793 3516 3SJ1-Up 54Z1-Up In Development 793B 3516 1HC1-Up 2PK1-Up In Development 793C 3516B 4AR1-Up 4GZ1-Up 7TR1-Up EUI Engine Ceramic Exhaust Manifolds 516171 51 793C 3516B ATY1-UP PWM1 LUP 516181NLS 51	89	3516	920 1-Up	54Z1-Up	Single Head Replacement Set	516051		516053 508024
789C 3516B 2BW1-UP 7TR1-Up 516181NLS 51 793 3516 3SJ1-Up 54Z1-Up In Development 793B 3516 1HC1-Up 2PK1-Up In Development 793C 3516B 4AR1-Up 4GZ1-Up 7TR1-Up EUI Engine Ceramic Exhaust Manifolds 516171 51 793C 3516B ATY1-UP PWM1 LUP EUI Engine Ceramic Exhaust Manifolds 516171 51 793C 3516B ATY1-UP PWM1 LUP 516181NLS 51	'89B	3516	7EK 1-Up	2PK1-Up		516051		516053 508024
793 3516 3SJ1-Up 54Z1-Up In Development 793B 3516 1HC1-Up 2PK1-Up In Development 793C 3516B 4AR1-Up 4GZ1-Up 7TR1-Up EUI Engine Ceramic Exhaust Manifolds 516171 51 793C 3516B ATY1-UP PWM1 UP EUI Engine Ceramic Exhaust Manifolds 516181NU S 51	'89C	3516B	2BW1-UP	7TR1-Up		516181NLS		516183
793B 3516 1 HC1-Up 2PK1-Up In Development 793C 3516B 4AR1-Up 4GZ1-Up 7TR1-Up EUI Engine Ceramic Exhaust Manifolds 516171 51 793C 3516B ATY1-UP BWM1 UP 516181NU S 51							In Development	
793C 3516B 4AR1-Up 4GZ1-Up 7TR1-Up EUI Engine Ceramic Exhaust Manifolds 516171 51 793C 3516B ATY1-UP NWM1 UP 516181NU S 51								
462 I-Op Ceramic Exhaust Manifolds Single Head Replacement Set 51 793C 3516B ATY1-UP 516181NU S 51			4AR1-Up			516171	·	516173
793C 2516B ATY1-UP 9WM1 LID 516181NU S 51		00100	4GZ1-Up	71111-0p		010171		
CBR1-UP	'93C	3516B		8WM1-UP	Single Head Replacement Set	516181NLS		516174 516183
	000							516183

			ENGINE	REMARKS	OUT OF FRAME	IN FRAME	CYL HEAD
	Vehicle, Serial #, and E		SERIAL #		OVERHAUL	OVERHAUL	REPLACE
	RIES COMPACTORS AN						
814		90P1-202		Non Spacer Plated			
815	3306	91P1-527		Turbocharged	306221	306222	306223
816		57U1-197		P.C. Engine			
814		14R1-Up	3N1-79762	Non Spacer Plated			
815	3306	15R1-Up	49V1-24220	Turbocharged	306231	306232	306233
816		151(1 - 0p	491-24220	P.C. Engine			
814		14D1 Up		Spacer Plated			
815	3306	14R1-Up	3N79763-Up	Turbocharged	306241	306242	306243
816		15R1-Up		P.C. Engine			
814B		15Z1-Up		Spacer Plated			
815B	3306	16Z1-Up	8Z1-Up	Turbocharged	306251	306252	306253
816B		17Z1-Up		D.I. Engine			
0102		1121 00		* Order Aftercooler Gasket Kit Separately if Required			
814F							
815F	3176C	BGF1-Up	3PD1-Up	Straight Style Head Gasket	176021STRNLS	176022STRNLS	176022STD
	31760	BMR1-Up	3FD1-0p	Straight Style Head Gaskel	17002131RNL3	17002231 KINLS	1/0023316
816F		261044 11-		Spacer Distad			
824B	F A A	36H811-Up	501/4	Spacer Plated	0.4000.4		0.40000
825B	D343	43N1-Up	52K1-Up	Turbocharged	343021*		343023
826B		58U1-Up		P.C. Engine			
				* Note: Rear Crankshaft Seal NOT included			
				Fuel System Rebuild Set			343059
824C		051/4 11-		Spacer Plated			
825C	0.400	85X1-Up	70V5389-Up	Turbocharged	400044	400040	400040
826C	3406	86X1-Up	11N1-Up	Non Aftercooled Engine	406011	406012	406013
		87X1-Up	- 1	W/19 Bolt Flywheel Housing			
				Fuel Pump Installation Set			406039
824C				Spacer Plated			100000
825C		85X1194-Up	70V21372-Up	Turbocharged			
825C 826C	3406	86X731-Up		Non Aftercooled Engine	406231	406232	406233
0200		87X587-Up	11N1-Up				
				W/19 Bolt Flywheel Housing			100000
				Fuel Pump Installation Set			406039
824C		85X1194-Up		Spacer Plated			
825C	3406	86X731-Up	70V21372-Up	Turbocharged	406331	406232	406233
826C	0400	87X587-Up	11N1-Up	Non Aftercooled Engine	400001	400202	400200
		07,307-00		W/24 Bolt Flywheel Housing			
		85X		Fuel Pump Installation Set			406039
824G				Spacer Plated			
825G	0.400	4SN1-Up	4474 11-	Turbocharged	400004	406000	400000
826G	3406	6RN1-Up	41Z1-Up	Aftercooled Engine	406331	406332	406333
		7LN1-Up		W/24 Bolt Flywheel Housing			
				Fuel Pump Installation Set			406039
824G		AWW1-Up					100000
825G	3406E	AXB1-Up	BKN1-Up	Spacer Plated Turbocharged Engines	406371	406372	406373
826G	3400E	AYH1-Up	DIVINI-Oh	opavor i latou i urboniaryou Engines	400371	400372	400373
	2400		000111-		100051		400050
834B	3408	7BR 1-Up	99C1-Up		408351		408353
00411	0.10	DVD4U	DUNA	HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included	04040458	0404005	040400
834H	C18	BXD1-U	RHX1-Up	Includes Fuel Injector Seal Exhaust Manifold Gaskets Not Included	C18101NLS	C18102NLS	C18103
836	3408	3RL1-Up	48W1-Up			In Development	
836C	3408	7FR1-Up	99C1-Up		408351		408353
				HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included			
836H	C18	BXD1-Up	RHX1-Up		C18101NLS	C18102NLS	C18103
844	3412	2KZ 1-Up	80M1-Up		412351		412373
	-	- 1	- 1	Single Head Replacement Set			412374
				HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included			
844H	C27	BTW1-Up	EHX1-Up		C27001NLS	C27002NLS	C27003
	021	внигор	Сплтор		0210011120	OLI UULINLU	021000

(APPLICATION INF Vehicle, Serial #, and En		ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
854G	3508B	1JW 1-Up	2GR1-Up	EUI Engine Non-ceramic Exhaust Manifolds	508121		508123
854K		H8M1-UP	MHM1-UP	Single Head Replacement Set			508124
0041	C32	H9K1-UP	MZM1-UP		C32031NLS	C32032NLS	C32033
CB434	3114	97Z1-Up	3TF218-Up	Dry Rear Housing	114021	114012	114013
	TYPE LOADERS		<u> </u>				
910	3204	80U1-Up 40Y1-Up	45V1-Up 45V1-32984	Non Turbocharged	204011	204012	204013
	3204	4011-0p 41Y1-Up	45V1-32984 45V1-33060	P.C.& D.I. Engines	204011	204012	204013
910		411100	4011 00000				
	3204	40Y1-Up 41Y1-Up	45V32985-39866 45V33061-40043	Non Turbocharged D. I. Engine	204021	204022	204023
910	3204	40Y1-Up	45V39867-Up	Non Turbocharged	204061	204062	204063
	5204	41Y1-Up	45V40044-Up	D. I. Engine	204001	204002	204000
G910	3204	3SD1-Up 8GB1-Up	45V53573-Up	Non Turbocharged	204061	204062	204063
910E	3114	1SF1-1103	2ZF1-Up	D. I. Engine Dry Rear Housing	114021	114012	114013
910E	3114	1SF1104-Up	2ZF1-Up	Wet Rear Housing	114021	114012	114013
916		2XB1-Up	45V39562-Up	Turbocharged			
	3204	9WB1-IP	7YJ 1-Up	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	3204	94Z1-Up	45V39562-Up	Turbocharged	204041	204042	204043
<u>926E</u> G926	3204	4NB1-Up 3TD1-Up	45V39562-Up	D.I. Engines Turbocharged	204041	204042	204043
928F	3116	<u>1SD1-Up</u> 2XL1-Up 7YM1-Up 8AK1-Up	98Z1-Up 1CK1-Up 4TF1-Up	D.I. Engines	116021		116023
928G		7SR1-Up 6XR1-Up	98Z1-Up 1CK1-Up 4TF1-Up		116021		116023
930	3304	79J1-2223 41K1-3207		Non Spacer Plated Non Turbocharged P.C. Engine	304011	304012	304013
930	3304		43V1-18890 48V1-52799 78P1-45003	Non Spacer Plated Non Turbocharged P.C. Engine	304031	304032	304033

	APPLICATION INFORM	MATION	ENGINE	REMARKS	OUT OF FRAME	IN FRAME	CYL HEAD
	(Vehicle, Serial #, and Engine	e Designation)	SERIAL #	REMARKS	OVERHAUL	OVERHAUL	REPLACE
930			43V18891-Up	Spacer Plated			
	3304		48V52800-Up	Non Turbocharged	304051	304052	304053
			78P45004-Up	P.C. Engine			
936		33Z1-Up					
936E		45Z1-Up	7Z7408-Up	Spacer Plated			
936F	3304	9MK1-Up	9Z10000-Up	Turbocharged	304091	304092	304093
	0004	4TK1-Up	12Z1502-Up	D.I. Engine	304031	304032	304033
		4SB1-Up	1221002-00	D.i. Engine			
		8AJ1-Up					
G936		3HD1-Up	7Z7408-Up	Spacer Plated			
	3304	4ND1-Up	9Z10000-Up	Turbocharged	304091	304092	304093
		8ED1-Up	12Z1502-Up	D.I. Engine			
938F		1KM1-Up	98Z-Up				
	3116	2RM1-Up	4TF14130-Up		116021		116023
		7SN1-Up	•				
938G	3126	4YS1-Up	55K500-7719	2 valves per cylinder	3126071	3126072	3126073
	0120	9HS1-Up	55K500-3590		0120011	0120012	0120010
950				Non Spacer Plated			
	3304	81J1-5410		Turbocharged	304021	304022	304023
				P.C. Engine			
950			43V1-18955	Non Spacer Plated			
	3304	43J 1-Up	48V1-52797	Turbocharged	304041	304042	304043
			78P1-47087	P.C. Engine			
950			43V18956-Up	Spacer Plated			
	3304		48V52798-Up	Turbocharged	304071	304072	304073
			78P47088-Up	P.C. Engine			
950B		31R1-Up	7Z1-Up	Spacer Plated			
	3304	63R1-603	9Z1-Up	Turbocharged	304081	304082	304083
		65R1-3087	12Z1-Up	D.I. Engine		00.002	001000
		22Z1-3188					
950E		63R6054-Up	7Z1-Up	Spacer Plated			
	3304	65R3088-Up	9Z1-Up	Turbocharged	304081	304082	304083
		22Z3189-Up	12Z1-Up	D.I. Engine			
950F		2LM1-Up					
		4DJ1-Up	98Z1-Up				
	3116	5SK1-Up	1CK1-Up		116021		116023
		6YG1-Up	4TF1-Up				
		7ZF1-Up					
0500		8TK1-Up	551/4000 11				
950G	0400	3JW1-Up	55K1620-Up		0400074	0400070	0400070
	3126	4BS1-Up	55K1-Up	2 valves per cylinder	3126071	3126072	3126073
05011			55K1620-Up				
950H	C7	M1G1-Up	C7C1-Up		C70091	C70092	C70093
0005		N1A1-Up					
960F		1YM1-Up	98Z1-Up				
	3116	4CL1-Up	1CK1-Up		116021		116023
		6XL1-Up	4TF1-Up				
0000		9ZJ1-Up					
962G	2400	4PW1-Up	55K1620-Up	2 valves per sylinder	2406074	2426070	2406070
	3126	5AS1-Up	55K1-Up	2 valves per cylinder	3126071	3126072	3126073
06011		6EW1-Up	55K2081-3590				
962H	C7	M3G1-Up	C7C1-UP		C70091	C70092	C70093
1		N4A1-Up					

(APPLICATION INF Vehicle, Serial #, and Er		ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
966C	Venicle, Genar #, and Er	30K1-1624	JERIAL #	Non Spacer Plated	OVERHADE	OVERHADE	REFERCE
	3306	76J1-6388		Turbocharged	306221	306222	306223
		42J1-3565		P.C. Engine			
966C				Non Spacer Plated			
	3306	76J6389-Up	3N1-79762	Turbocharged	306231	306232	306233
		42J3566-Up		P.C. Engine			
966C			3N79763-Up	Spacer Plated			
966D	3306		44V22485-Up	Turbocharged	306241	306242	306243
			44 v 2 2 4 6 5 - O p	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			
			·· •r				
				* Order Aftercooler Gasket Kit Separately if Required			
966F		1SL1-Up	8Z1-Up				
		3XJ1-Up	10Z1-Up	Spacer Plated			
	3306	4YG1-Up	13Z1-Up	Turbocharged	306251	306252	306253
		8BG1-Up	6NC1-Up	D.I. Engine			
		9YJ1-Up					
				* Order Aftercooler Gasket Kit Separately if Required			
966G	0000	3PW 1-Up	4074.11	Spacer Plated	000054	000050	000050
	3306	9RS 1-Up	13Z1-Up	Turbocharged	306251	306252	306253
0000		A\A/\//		D.I. Engine			
966G		AWY1-Up					
		AXJ1-Up					
	3176C	AWZ1-Up	3PD1-Up	Straight Style Head Gasket	176031STRNLS	176032STRNLS	176033STR
		AXL1-Up ANT1-Up	-				
		ANTI-Op ANZ1-Up					
966H							
300H		A6D1-Up					
		A6G1-Up					
		A6J1-Up					
	C11	BJ61-Up	RSX1-Up		C11001NLS	C11002NLS	C11003
	UT	BS61-Up	TXE1-Up		CTIOUTINES	CTTOUZINES	011003
		FMW1-Up					
		RYF1-Up					
		TAL1-Up					
970F		7PL1-Up	8Z1-Up				
	3306	7SK1-Up	10Z1-Up		306251	306252	306253
	0000	9JK1-Up	13Z1-Up		000201	UUULUL	000200
		outriop	1021 00	* Order Aftercooler Gasket Kit Separately if Required			
972G		1EW 1-Up		· · · ·			
	3306	6AW 1-Up	13Z 1-Up	* Order Aftercooler Gasket Kit Separately if Required	306251	306252	306253
972H			A7D1-Up				
51 <u>2</u> 11			A7G1-Up				
	C13	MHX 1-Up	A7J1-Up	WITH MLS (MULTIPLE LAYER STEEL) HEAD GASKET	C13081NLS	C13082NLS	C13083
			LCC1-Up				
			2001-0p				

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

(APPLICATION INI Vehicle, Serial #, and E		ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
980B	3306		3N1-79762	Non Spacer Plated Turbocharged P.C. Engine	306171	306172	306173
				Converted to Spacer Plated Turbocharged P.C. Engine * Order Aftercooler Gasket Kit Separately if Required	306181	306182	306183
80C	3406	63X1-Up 2XD1-Up 13B300-Up	70V4683-Up 11N1-1475 81Y1-Up	Spacer Plated Turbocharged Non Aftercooled Engine W/19 Bolt Flywheel Housing	406011	406012	406013
30C				Fuel Pump Installation Set Spacer Plated Turbocharged			406039
	3406	63X 6575-Up	11N1476-Up	Non Aftercooled Engine W/24 Bolt Flywheel Housing	406331	406332	406333
		0111/11		Fuel Pump Installation Set			406039
80F	3406	3HK-Up 8CJ1-Up 8JN1-Up 5XJ1-Up	11N1-Up	Spacer Plated Turbocharged Non Aftercooled Engine W/19 Bolt Flywheel Housing	406231	406232	406233
				Fuel Pump Installation Set			406039
80F	3406	3HK-Up 8CJ1-Up 8JN1-Up 4RN1-Up	11N1-Up	Spacer Plated Turbocharged Non Aftercooled Engine W/24 Bolt Flywheel Housing	406331	406332	406333
		-1		Fuel Pump Installation Set			406039
80G	3406	2KR1-Up 9CM1-Up 2SR1-Up	41Z1-Up	Spacer Plated Turbocharged Aftercooled Engine W/24 Bolt Flywheel Housing	406331	406332	406333
				Fuel Pump Installation Set			406039
80G	3406E	AWH1-Up AXG1-Up	BET1-Up	Spacer Plated Turbocharged Engines	406381	406382	406383
80H	C15	JMS 1-Up KZL 1-Up MHG 1-Up A8J 1-Up	LHX 1-Up	Does Not Include Oil Pan Isolation Seal Does Not Include Exhaust Manifold Gaskets Fuel Injector O-Rings Included	C15111NLS	C15112NLS	C15113
88	D343	87A 3093-Up		Spacer Plated Turbocharged P.C. Engine * Note: Rear Crankshaft Seal NOT included	343041*		343043
				Fuel System Rebuild Set			343059
88B	3408	50W 1-Up	48W950-Up		408061	408062	408063
88F	3408	8YG	48W35039-Up	Turbocharged D.I. Engine	408161	408162	408163
88F	3408E	2ZR 1-Up	99C1-Up	HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included	408361		408363
88H		BXY1-Up	RHX1-Up	Does Not Include Exhaust Manifold Gaskets Includes Fuel Injector Seals	C18011NLS	C18012NLS	C18013
90	C27	BWX1-Up	EHX2416-Up		C27041NLS	C27042NLS	C27043
90	3412	4FR1-Up	80M1-Up	Single Head Replacement Set	412351		412373 412374
00P	3412	7HK	73W	HEUI (Hydraulic Electronic Unit Injector) O-Rings are NOT included		In Development	
90B 90D 92	3412 3412 D348	BCR1-Up 25K1-1169	5JJ4562-Up	DOES NOT INCLUDE 8 OF 1007401 EXHAUST SEGMENT SEAL AFTERCOOLER GASKETS NOT INCLU	412021NLS	412022NLS	412023
	2010	20111100		Single Head Replacement Set Head Gskt Not Included			348014WO

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

	APPLICATION IN hicle, Serial #, and E		ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
992B	D348	25K 1170-Up					
				Single Head Replacement Set Head Gskt Not Included Cyl Block Repair Shim Set			348014WOHG 348099
992C	3412	42X1-Up 49Z1-Up	73W1-Up	Single Lip Silicone Rear Seal	412161		
992D	3412	7MJ1-Up	73W1-Up	Hydrodynamic Rear Seal	412051		
992G	3508B	7HR 1-Up AZX1-Up	2GR1-Up	EUI Engine Non-ceramic Exhaust Manifolds Single Head Replacement Set	508121		508123 508124
992K	C32	ZMX1-UP	MHM1-UP MZM1-UP		C32031NLS	C32032NLS	C32033
992K	C32	H4C1-UP	LJW1-UP		C32041NLS	C32042NLS	C32043
993K	C32	Z9K1-UP	LJW1-UP		C32041NLS	C32042NLS	C32043
993K	C32	Z4D1-UP	NZK1-UP		C32021NLS	C32022NLS	C32033
994	3516	9YF 1-Up	54Z1-Up		516051	COLOLLINEO	516053
554	0010	511 T Op	0421 00	Single Head Replacement Set	010001		508024
994D	3516	3TZ1-Up	7TR1-Up			In Development	000021
	YPE LOADERS	0121 00				in Bevelopinent	
931		8N1-Up					
,51		10N1-Up		Non Turbocharged			
	3204	78U1-Up	45V1-Up	P.C.& D.I. Engine	204011	204012	204013
		81U1-Up		P.C.& D.I. Engine			
931B		25Y1-Up					
33 I D	2004		45V1-32893	Non Turbocharged	204011	204012	204013
	3204	26Y1-Up		-			
		29Y1-Up	45V1-32939	P.C.& D.I. Engine			
931B		30Y1-Up		-			
31D	3204	25Y1-Up 26Y1-Up	45V32894-40125	Non Turbocharged	204021	204022	204023
	3204			-			
		29Y1-Up	45V32940-40209	D.I. Engine			
		30Y1-Up		•			
931B		25Y1-Up	45V40126-Up	Non Turbocharged	204061	204062	204063
	3204	26Y1-Up		5			
		29Y1-Up	45V40210-Up	D.I. Engine			
		30Y1-Up	101 102 10 00	5			
931B	3204	4SC1-Up	45V41078-Up	Non Turbocharged	204061	204062	204063
	0201	6EC1-Up		D.I. Engine	201001	201002	201000
931C		2AK1-Up					
		2BJ1-Up					
		5LJ1-Up					
	3204	6RF1-Up	45V41078-Up	Non Turbocharged	204061	204062	204063
	3204	6AJ1-Up	45V41076-0p	D.I. Engine	204001	204002	204003
		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
341D	5504	80H1-3883		P.C. Engine	304131	JU4012	304013
0.4.4			12/11				
941	0004		43V1-Up	Non Spacer Plated	004004	204000	204000
941B	3304		48V1-Up	Non Turbocharged	304031	304032	304033
			78P1-47087	P.C. Engine			

	APPLICATION INFORMAT (Vehicle, Serial #, and Engine De		ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
941 941B	3304		78P47088-Up	Spacer Plated Non Turbocharged C. Engine	304051	304052	304053
943	3204	3Y1-Up 4Z1-Up 19Z1-Up 31Y1-Up	10X1-Up 45V38842-Up	D.I. Engine	204031	204032	204033
951B 951C	3304 8	36J1-2597		Non Spacer Plated Non Turbocharged P.C. Engine	304131	304012	304013
951B 951C	3304	32F1-Up 19H1-Up 69H1-Up 86J1-Up	43V1-18816 48V1-Up 78P1-46320	Non Spacer Plated Non Turbocharged P.C. Engine	304031	304032	304033
951B 951C	3304	32F1-Up 19H1-Up 69H1-Up 86J1-Up	43V18817-Up 78P46321-Up 48V38780-Up	Spacer Plated Non Turbocharged P.C. Engine	304051	304052	304053
953	3204	5Z1-Up 20Z1-Up 44Z1-Up 76Y1-Up 77Y1-Up 78Y1-Up	10X1-Up 45V29936-Up	D.I. Engine	204031	204032	204033
953B	3116	5MK 1-Up	4TF1-Up		116031		116023
953C	3116	2ZN 1-Up	4TF1-Up		116031		116023
955K	3304 8	5J 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		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
		522 1-0P		* Order Aftercooler Gasket Kit Separately if Required			

(Vehi	APPLICATION IN icle, Serial #, and E	FORMATION ngine Designation)	ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
977K 977L	3306	11K1-5050 48J1-1058	·	Non Spacer Plated Turbocharged P.C. Engine	306221	306222	306223
977K 977L	3306	48J1-Up 11K1-Up 14X1-Up 64X1-Up	3N1-79762 49V1-24220	Non Spacer Plated Turbocharged P.C. Engine	306231	306232	306233
977K 977L	3306	48J1-Up 11K1-Up 14X1-Up 64X1-Up	3N79763-Up 49V24221-Up	Spacer Plated Turbocharged P.C. Engine	306241	306242	306243
983	D343	38K1-Up	52K1-Up			In Development	
983B	3406	58X 1-Up	70V5101-Up	Early Style Front Cover	406171	406172	406173
	JRAL 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		
				Fuel Pump Installation Set			406039
ARTICULAT D25C D25D	3306	9YC1-Up	13Z1-Up	Spacer Plated Turbocharged or	306361	306362*	306363*
	5500	1HK1-Up	7JB1-Up	Turbocharged/Aftercooled D.I. Engine * Order Aftercooler Gasket Kit Separately if Required	300301	300302	300303
D30C D30D	3306	7ZC1-Up 3AJ1-Up	13Z1-Up 7JB1-Up	Spacer Plated Turbocharged or Turbocharged/Aftercooled	306361	306362*	306363*
				D.I. Engine * Order Aftercooler Gasket Kit Separately if Required			

(Vehi	APPLICATION INF icle, Serial #, and Er		ENGINE SERIAL #	REMARKS	OUT OF FRAME OVERHAUL	IN FRAME OVERHAUL	CYL HEAD REPLACE
D35C	3306	2GD 1-Up	13Z1-Up 7JB1-Up	Spacer Plated Turbocharged or Turbocharged/Aftercooled D.I. Engine * Order Aftercooler Gasket Kit Separately if Required	306361	306362*	306363*
D35HP	3406	3FD1-Up	6TB1-Up	Fuel Pump Installation Set		In Development	406039
D40D	3406	2JJ	70V1-Up 11N1-Up			In Development	
D250B D250E	3306	5WD1-Up 5TN1-Up	13Z1-Up 7JB1-Up	Fuel Pump Installation Set Spacer Plated Turbocharged or Turbocharged/Aftercooled D.I. Engine * Order Aftercooler Gasket Kit Separately if Required	306361	306362*	406039 306363*
D300B D300D	3306	4SD1-Up 5MG1-Up	13Z1-Up 7JB1-Up	Spacer Plated Turbocharged or Turbocharged/Aftercooled D.I. Engine * Order Aftercooler Gasket Kit Separately if Required	306361	306362*	306363*
D300E	3306	7FN 1-Up	13Z1-Up 7JB1-Up	Spacer Plated Turbocharged or Turbocharged/Aftercooled D.I. Engine * Order Aftercooler Gasket Kit Separately if Required	306361	306362*	306363*
D350C D350D	3306	8XC1-Up 9RF1-Up	13Z1-Up 7JB1-Up	Spacer Plated Turbocharged or Turbocharged/Aftercooled D.I. Engine * Order Aftercooler Gasket Kit Separately if Required	306361	306362*	306363*
D350E	3406	9LR1-Up	41Z1-Up	Fuel Pump Installation Set		In Development	406039
D350E	3406E	2XW1-Up	9AP1-1799		406311	406312	406039
D350E	3406	1MD1-Up	6BT1-Up	Spacer Plated Turbocharged Engines Fuel Pump Installation Set	400311	In Development	406039
D400D	3406	8TF1-Up	70V1-Up			In Development	400033
D400E	3406	9LR1-Up	41Z1-Up	Fuel Pump Installation Set		In Development	406039
D400E	3406E	8PS1-Up APF1-Up	9AP1-1799	Spacer Plated Turbocharged Engines	406311	406312	406313
D550	3408	4RD1-Up	67U1-Up			In Development	
D550B	3408	5ND1-Up	67U1-Up			In Development	
TELEHANDI RT80	LER 3114	1GJ1-Up	2FG1-Up	Dry Rear Housing	114021	114012	114013
INTEGRATE	ED TOOLCARRIERS						
IT12	3204	2YC1-Up 4NC1-Up	45V1-Up		204041	204042	204043
IT12B	3114	1KF1-819	2ZF1-Up	Wet Rear Housing	114011	114012	114013
IT12F	3114	1KF820-Up	2ZF1-Up	Wet Rear Housing	114011	114012	114013
IT14B	3114	3NJ1-Up	2ZF1-Up	Wet Rear Housing	114011	114012	114013
IT14F	3114	4EL1-Up	2ZF1-Up	Wet Rear Housing	114011	114012	114013
IT18	3204	7ZB1-Up	45V1-Up		204041	204042	204043

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



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