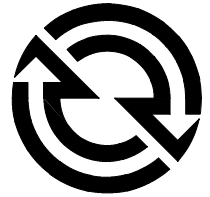


Engine Parts

DETROIT DIESEL



Diesel Engine

Generator Model:

230-275 kW

Engine Series:

60

Engine Model:

6063TK36

6063MK35

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GENERAL INFORMATION

This customized parts catalog contains information specific to the customer serial number. All engine components in this catalog are divided into major groups of functionally related parts. A listing of the groups and their sub-groups appears under "Group Nomenclature" of this section.

The Alphabetical Index is particularly helpful when only a part name is known and the group can not readily be determined. Parts are listed alphabetically by noun name, followed by a description of the application of the part and the final group location.

Unlike the normal parts catalog this book does not contain types. The listing of parts is separated only by a group identification (e.g. 1.1000 for cylinder blocks). Components of major assemblies will follow the assembly. The order in which parts are listed is the same as the normal parts catalog.

Also included in the last pages of this catalog is a listing of various supplies required to maintain your engine.

The data in this publication is based on information known to Detroit Diesel at the time of printing. While every care and effort has been taken to ensure the accuracy of all information, engine modifications or subsequent engineering changes or enhancements may cause certain data to be superseded or rendered obsolete. Detroit Diesel reserves the right to make changes to this catalog at any time without notice.

If additional assistance is needed please contact your authorized Detroit Diesel service outlet.

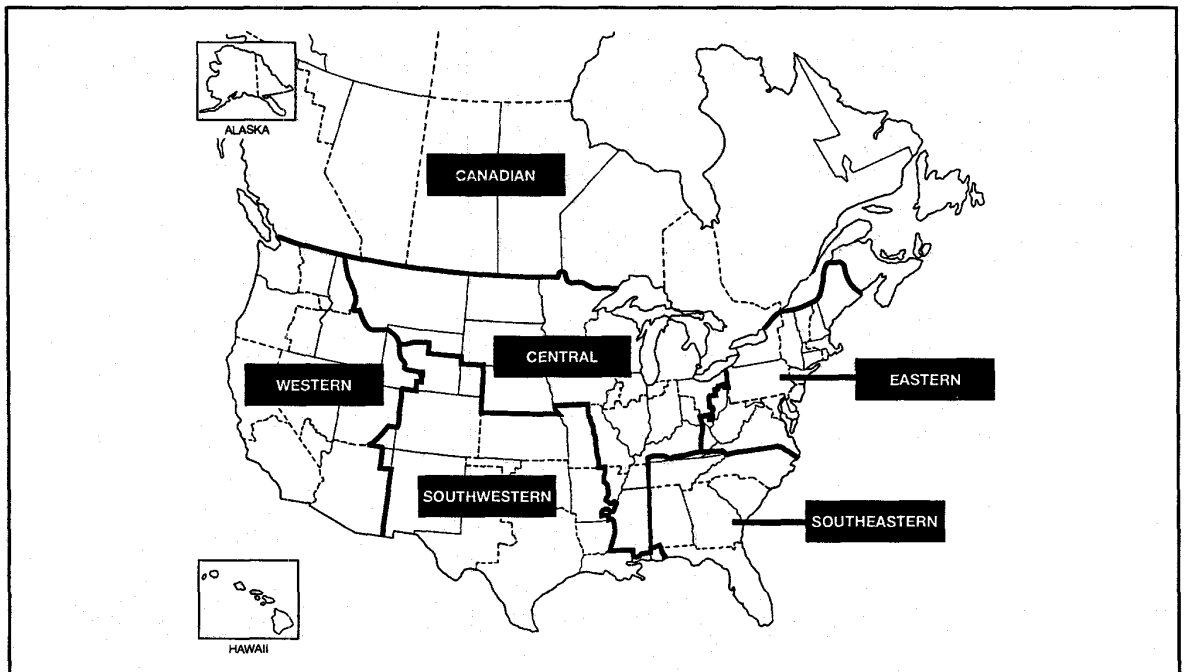
IMPORTANT ENGINE INFORMATION

Your engine serial number should be kept readily available. It can be used to identify your model as well as ALL service parts including kits, sets, warranty information and extended coverage available.

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The satisfaction and goodwill of the owners of Detroit Diesel engines are of primary concern to Detroit Diesel Corporation and its distributor/dealer organizations.

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P.O. Box 4161
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Detroit Diesel-Allison de Mexico
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Col. Ampliacion Norte
San Juan Ixtacala, Tlanepantla
C.P. 54160, Edo do Mexico
Phone: (525) 333-1802
Fax: (525) 333-1870

1.0000 ENGINE (LESS MAJOR ASSEMBLIES)

- 1.1000 CYLINDER BLOCK
- 1.1000A AIR BOX DRAINS
- 1.2000 CYLINDER HEAD
- 1.2000A ENGINE, LIFTER BRACKET
- 1.3000 CRANKSHAFT, OIL SEALS AND STABILIZERS
- 1.3000A CRANKSHAFT FRONT COVER
- 1.3000B VIBRATION DAMPER
- 1.3000C CRANKSHAFT PULLEY
- 1.3000D CRANKSHAFT PULLEY BELT
- 1.4000A FLYWHEEL
- 1.5000A FLYWHEEL HOUSING
- 1.5000B FLYWHEEL HOUSING ADAPTOR
- 1.6000 CONNECTING ROD AND PISTON
- 1.7000 CAMSHAFT AND GEAR TRAIN
- 1.7000A BALANCE WEIGHT COVER
- 1.7000B ACCESSORY DRIVE
- 1.8000 VALVE AND INJECTOR OPERATING MECHANISM
- 1.8000A ROCKER COVER

2.0000 FUEL SYSTEM

- 2.1000A FUEL INJECTOR
- 2.1000B INJECTOR CONTROLS ELECTRONIC
- 2.2000 FUEL PUMP
- 2.3000A FUEL FILTER AND STRAINER
- 2.4000A ALTERNATE FUEL SYSTEM
- 2.5000A FUEL LINES AND FUEL COOLER
- 2.7000A
- 2.9000 INJECTOR CONTROLS
- 2.9000A THROTTLE CONTROLS

3.0000 AIR SYSTEM

- 3.1000A AIR CLEANER AND/OR ADAPTOR
- 3.3000A AIR INLET HOUSING
- 3.3000C AIR INTAKE MANIFOLD
- 3.4000 BLOWER AND DRIVE
- 3.4000A BLOWER DRIVE SHAFT
- 3.5000A TURBOCHARGER
- 3.7000 INTERCOOLER/AFTERCOOLER

4.0000 LUBRICATING SYSTEM

- 4.1000A OIL PUMP
- 4.1000B OIL DISTRIBUTION SYSTEM
- 4.1000C OIL PRESSURE REGULATOR
- 4.2000A OIL FILTER
- 4.3000A OIL FILTER LINES
- 4.4000A OIL COOLER
- 4.5000A OIL FILLER
- 4.6000A DIPSTICK
- 4.7000A OIL PAN
- 4.8000A VENTILATING SYSTEM

5.0000 COOLING SYSTEM

- 5.1000 FRESH WATER PUMP
- 5.1000A FRESH WATER PUMP COVER
- 5.2000B THERMOSTAT
- 5.2000C WATER BYPASS TUBE
- 5.3000B WATER CONNECTIONS
- 5.4000A FAN
- 5.5000A HEAT EXCHANGER OR KEEL COOLING
- 5.6000A RAW WATER PUMP
- 5.7000A WATER FILTER

6.0000 EXHAUST SYSTEM

- 6.1000A EXHAUST MANIFOLD AND/OR CONNECTIONS
- 6.2000A EXHAUST MUFFLER AND/OR CONNECTIONS

7.0000 ELECTRICAL INSTRUMENTS

- 7.1000A BATTERY CHARGING GENERATOR
- 7.3000A STARTING MOTOR
- 7.4000B TACHOMETER DRIVE
- 7.4000C SHUT-OFF OR ALARM SYSTEM
- 7.7000B THROTTLE AND GEAR CONTROL SYSTEM ELECTRONIC
- 7.7000C CRT AND LCD DISPLAY SYSTEM ELECTRONIC
- 7.8000C SPARK PLUG, IGNITION COIL, WIRING HARNESS

8.0000 POWER TAKE-OFF

- 8.1000A POWER TAKE-OFF ASSY.

9.0000 TRANSMISSION AND PROPULSION

- 9.1000A MARINE GEAR

11.0000 ENGINE MOUNTING

- 11.1000A ENGINE MOUNTING BASE

12.0000 MISCELLANEOUS

- 12.4000A ... AIR COMPRESSOR
- 12.5000A ... HYDRAULIC PUMP
- 12.6000B ... AIR STARTER
- 12.6000C ... COLD WEATHER STARTING AIR KIT
- 12.7000A ... APPEARANCE PACKAGE PARTS
- 12.8000A ... SUPPLIES/MAINTENANCE PRODUCTS
- 12.8000B ... FABRICATION MATERIAL
- 12.8000C ... SERVICE KITS AND SETS

PART NAME	GROUP NO.	PART NAME	GROUP NO.
A			
ACTUATOR ASSEMBLY, GEAR	7. 7460B	BOLT, EXHAUST MANIFOLD TO HEAD	6. 1025A
ACTUATOR ASSY., NATURAL GAS	2. 9395A	BOLT, ROCKER COVER	1. 8460A
ADAPTOR KIT, POWER TAKE OFF	1. 3281C	BOOT AND SPRING IGNITION	7. 8735C
ADAPTOR, DIPSTICK	4. 6030A	BRACKET GAS VALVE MOUNTING	2. 4145A
ADAPTOR, FLYWHEEL HOUSING	1. 5130B	BRACKET IGNITION COIL	7. 8705C
ADAPTOR, FUEL PUMP DRIVE	2. 2260	BRACKET OIL FILLER TUBE CLAMP	4. 5004A
ADAPTOR, HYDRAULIC PUMP	12.5020A	BRACKET, ACTUATOR & THROTTLE BODY	2. 9396A
ADAPTOR, OIL COOLER	4. 4110A	BRACKET, ACTUATOR MOUNTING	2. 1780B
ADAPTOR, OIL FILTER COVER	4. 2291A	BRACKET, AIR COMPRESSOR MOUNTING	12.4010A
ADAPTOR, TACHOMETER DRIVE CABLE	7. 4420B	BRACKET, BOAT BUILDER INTERFACE MODULE	2. 1514B
ADAPTOR, TACHOMETER MOUNTING	12.8325A	BRACKET, BREATHER EXTENSION PIPE	4. 8183A
ADAPTOR, WATER PUMP DRIVE	3. 7005	BRACKET, ELECTRONIC DISTRIBUTOR UNIT	2. 1530B
ADDITIVE, CURING (THREADLOCK & RTV)	12.8252A	BRACKET, ENGINE LIFTER - REAR	1. 2080A
ADDITIVES, DIESEL FUEL	12.8280A	BRACKET, ENGINE LIFTER-FRONT	1. 2070A
ADDITIVES, SUPPLEMENTAL COOLANT	12.8260A	BRACKET, FAN BELT TENSIONER ASSY.	5. 4342A
AIR INTAKE MANIFOLD	3. 3801C	BRACKET, FUEL FILTER MOUNTING	2. 3530A
AIR STARTER ASSY.	12.6080B	BRACKET, GENERATOR ADJUSTING STRAP	7. 1582A
AIR STRAINER AND LUBRICATION ASSY., AIR STARTER	12.6120B	BRACKET, GENERATOR MOUNTING	7. 1595A
APPEARANCE PACKAGE PARTS - SECTION 1	12.7001A	BRACKET, OIL COOLER HOUSING SUPPORT	4. 4100A
APPEARANCE PACKAGE PARTS - SECTION 3	12.7003A	BRACKET, OIL PUMP SCREEN SUPPORT	4. 1540B
APPEARANCE PACKAGE PARTS - SECTION 5	12.7005A	BRACKET, REVERSE GEAR MOUNTING	9. 1011A
ARM ASSY., EXHAUST VALVE ROCKER	1. 8060	BRACKET, SNEF MODULE MOUNTING	2. 1656B
ARM ASSY., INJECTOR ROCKER	1. 8080	BRACKET, STARTING MOTOR SUPPORT	7. 3007A
ARM ASSY., INTAKE VALVE ROCKER	1. 8075	BRACKET, WATER FILTER MOUNTING	5. 7080A
B		BUSHING, FAN BELT IDLER PULLEY SUPPORT	5. 4348A
BALL AND SEAT ASSY., INJECTOR ROCKER ARM	1. 8090	BUSHING, INJECTOR ROCKER ARM	1. 8110
BEARING, ACCESSORY DRIVE	1. 7655B	BUSHING, OIL PUMP BODY	4. 1050A
BEARING, AIR COMPRESSOR DRIVE SHAFT	12.4048A	C	
BEARING, CAMSHAFT	1. 7040	CAMSHAFT ASSY.	1. 7001
BEARING, CLUTCH PILOT	1. 4040A	CAP, CRANKSHAFT MAIN BEARING	1. 3110
BEARING, FAN SPINDLE	5. 4111A	CAP, CAMSHAFT BEARING	1. 7042
BEARING, FRESH WATER PUMP	3. 7220	CAP, OIL FILLER	4. 5010A
BEARING, FUEL PUMP	2. 2060	CAPLUG R/C S60	1. 8043A
BEARING, IDLER GEAR	1. 7225	CHAIN, OIL FILLER CAP	4. 5030A
BEARING, PISTON PIN.	1. 6142	CLAMP, AIR INLET PIPE HOSE	3. 1280A
BELT, CRANKSHAFT PULLEY DRIVE	1. 3320D	CLAMP, BREATHER TUBE	4. 8039A
BELT, GENERATOR DRIVE	7. 1575A	CLAMP, INJECTOR	2. 1270A
BLADE, FAN HIGH LOW AND CRANKSHAFT MOUNTED	5. 4010A	CLAMP, WATER FILTER INLET HOSE	5. 7095A
BLOCK, CYLINDER	1. 1001	CLEANER, COOLANT SYSTEM	12.8270A
BLOCK,FUEL SYSTEM JUNCTION	2. 5250A	CLIP, ACOUSTICAL	1. 7560A
BODY, FRESH WATER PUMP	3. 7190	CLIP, AIR COMPRESSOR WATER TUBE	12.4095A
BODY, OIL PRESSURE REGULATOR AND RELIEF	4. 1680C	CLIP, BREATHER TUBE	4. 8040A
BODY, OIL PUMP	4. 1040A	CLIP, COLD PLATE TO FILTER HOSE	2. 5121A
BOLT, CAMSHAFT BEARING CAP	1. 7046	CLIP, CYLINDER HEAD INLET	2. 5180A
BOLT, CRANKSHAFT MAIN BEARING CAP	1. 3140	CLIP, DIPSTICK	4. 6040A
		CLIP, FLEXIBLE HOSE	12.8554B
		CLIP, FUEL DRAIN	2. 5220A
		CLIP, OIL FILTER LINE	4. 3045A

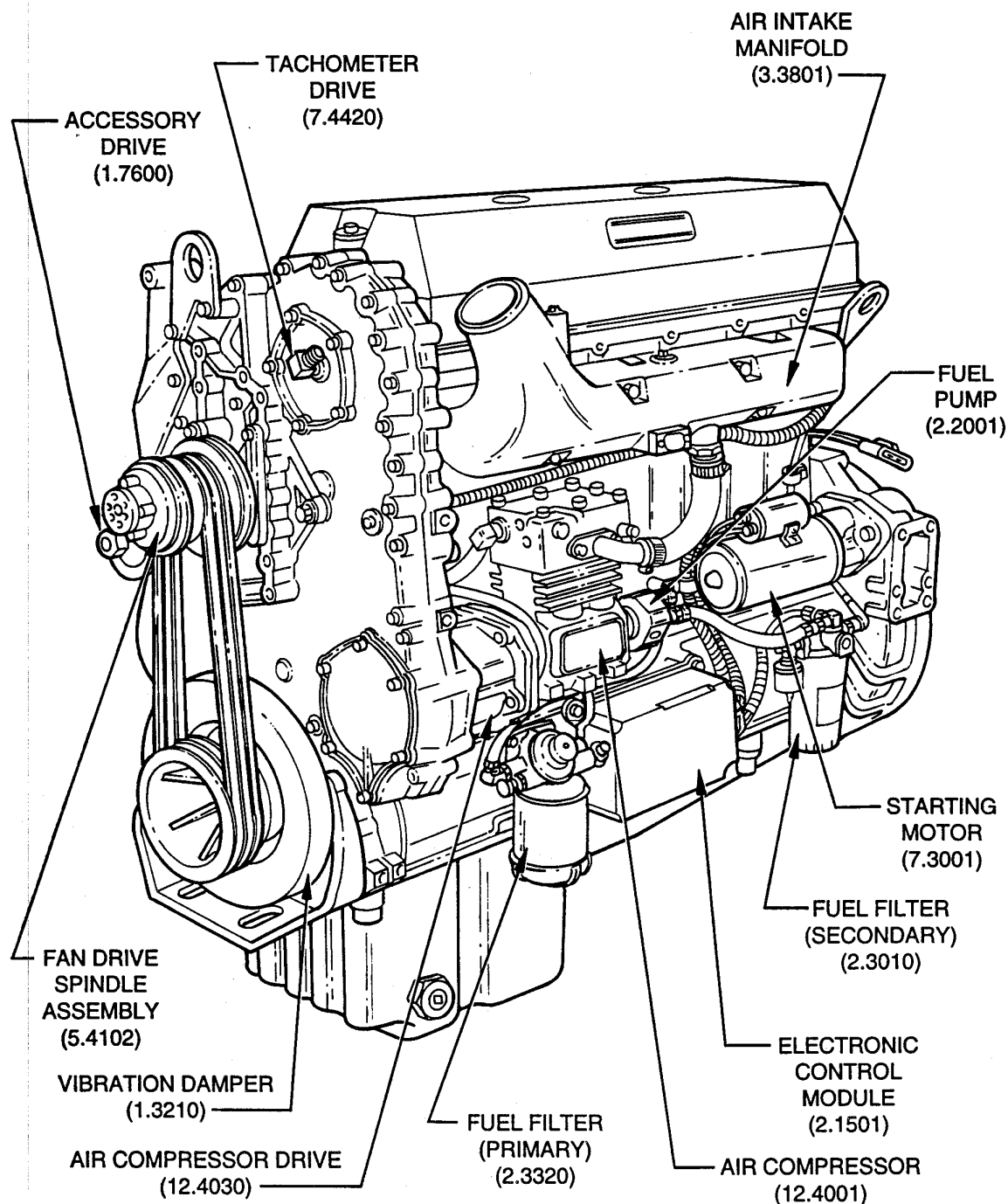
PART NAME	GROUP NO.	PART NAME	GROUP NO.
CLIP, STRAINER TO FUEL PUMP	2. 5070A	DRIVE GEAR, AIR COMPRESSOR DRIVE ASSY.	12.4072A
CLIP, TURBOCHARGER OIL RETURN TUBE	3. 5507A		
CLIP, TURBOCHARGER OIL SUPPLY TUBE	3. 5502A	E	
CLIP, WATER BYPASS TUBE	5. 2190C	ELBOW, TURBOCHARGER AIR INLET	3. 1259A
CLIP, WATER PUMP TO OIL COOLER TUBE	5. 3405B	ELEMENT, FUEL FILTER	2. 3320A
CLUTCH ASSY., FAN	5. 4112A	ELEMENT, FUEL STRAINER	2. 3010A
COIL IGNITION	7. 8710C	ELEMENT, OIL FILTER	4. 2250A
COLD WEATHER STARTING AID KIT	12.6301C	ELEMENT, WATER FILTER	5. 7020A
COMPRESSOR ASSY., AIR	12.4001A		
CONNECTING ROD ASSY.	1. 6001	F	
CONNECTION, FLEXIBLE EXHAUST	6. 2095A	FILTER ASSY., WATER	5. 7001A
CONNECTOR, DEUTCH	2. 1850B	FILTER UNIT, BREATHER	4. 8060A
CONNECTOR, PERIPHERAL	2. 1580B	FITTINGS, FLEXIBLE HOSE END	12.8552B
CORE, OIL COOLER ENGINE	4. 4001A	FLYWHEEL ASSY.	1. 4001A
COUPLING, AIR COMPRESSOR DRIVE	12.4050A	FORK, FUEL PUMP COUPLING	2. 2220
COUPLING, FUEL PUMP DRIVE	2. 2230	FUEL SYSTEM PRODUCTS	12.8006A
COUPLING, HYDRAULIC PUMP DRIVE	12.5010A	FUEL/AIR SEPARATOR	2. 3305A
COUPLING, WATER PUMP DRIVE	3. 7025		
COVER ASSY., ACCESSORY DRIVE ACOUSTICAL	1. 7540A	G	
COVER ASSY., GEAR CASE ACOUSTICAL	1. 7550A	GAGE, AIR PRESSURE	12.8315A
COVER ASSY., ROCKER	1. 8450A	GAGE, AMMETER	12.8310A
COVER, ACOUSTICAL	1. 7530A	GAGE, FUEL PRESSURE	12.8355A
COVER, AIR COMPRESSOR DRIVE ADAPTOR	12.4032A	GAGE, FUEL VOLUME	12.8350A
COVER, BALANCE WEIGHT	1. 7470A	GAGE, HOUR METER	12.8370A
COVER, CAMSHAFT BEARING CAP	1. 7037	GAGE, OIL PRESSURE - ENGINE	12.8330A
COVER, ENGINE FRONT ACCESSORY DRIVE	1. 3191A	GAGE, OIL PRESSURE - TRANSMISSION	12.8335A
COVER, FRESH WATER PUMP BODY	5. 1031	GAGE, OIL TEMPERATURE	12.8340A
COVER, FUEL FILTER	2. 3390A	GAGE, SPEEDOMETER	12.8385A
COVER, FUEL STRAINER	2. 3080A	GAGE, TACHOMETER	12.8320A
COVER, GEAR CASE	1. 3158A	GAGE, TURBO BOOST	12.8375A
COVER, INJECTOR HARNESS	2. 1702B	GAGE, VOLTMETER	12.8380A
COVER, OIL FILLER HOLE	4. 5070A	GAGE, WATER TEMPERATURE	12.8345A
COVER, OIL PUMP	4. 1220A	GASKET KIT, CYLINDER HEAD OVERHAUL	1. 2002
COVER, TACHOMETER DRIVE	7. 4445B	GASKET KIT, ENGINE OVERHAUL	1. 1002
COVER, THERMOSTAT HOUSING	5. 2120B	GASKET, ADAPTOR TO OIL COOLER HOUSING	4. 4112A
COVER, WATER FILTER	5. 7034A	GASKET, AIR COMPRESSOR DRIVE HOUSING	12.4039A
COVER, WATER PUMP	5. 1235A	GASKET, AIR COMPRESSOR MOUNTING	12.4005A
COVER, WATER PUMP INLET	3. 7030	GASKET, AIR INTAKE MANIFOLD	3. 3803C
COVER, FUEL PUMP	2. 2030	GASKET, AIR STARTER MOUNTING	12.6085B
CRANKSHAFT ASSY.	1. 3001	GASKET, BALANCE WEIGHT COVER	1. 7480A
CYLINDER KIT	1. 6182	GASKET, BREATHER SHELL COVER	4. 8057A
		GASKET, CYLINDER HEAD COMPRESSION	1. 2010
D		GASKET, DIPSTICK	4. 6010A
DAMPER, VIBRATION	1. 3210B	GASKET, ENGINE FRONT ACCESSORY DRIVE	1. 3192A
DIPSTICK	4. 6001A	GASKET, EXHAUST MANIFOLD	6. 1010A
DISC, FLYWHEEL FLEXIBLE COUPLING	1. 4075A	GASKET, FRESH WATER PUMP	3. 7185
DRIVE ASSY., ACCESSORY	1. 7600B	GASKET, FRESH WATER PUMP BODY COVER	3. 7195
DRIVE ASSY., AIR COMPRESSOR	12.4030A	GASKET, FUEL PUMP COVER	2. 2040
DRIVE ASSY., FUEL PUMP	2. 2240		

PART NAME	GROUP NO.	PART NAME	GROUP NO.
GASKET, FUEL PUMP TO ENGINE OR DRIVE ASSEMBLY	2. 2007	HEAD ASSY., CYLINDER	1. 2001
GASKET, FUEL PUMP VALVE PLUG	2. 2180	HEAT SHIELD, EXHAUST MANIFOLD	6. 1171A
GASKET, HOUSING ADAPTOR	3. 7012	HOSE ASSY., AIR VENT BLEEDER	2. 5530A
GASKET, HYDRAULIC PUMP	12.5005A	HOSE ASSY., PRO-CHEK INLET	2. 5510A
GASKET, OIL COOLER ADAPTOR TO BLOCK	4. 4115A	HOSE ASSY., PRO-CHEK OUTLET	2. 5520A
GASKET, OIL COOLER CORE-INNER	4. 4030A	HOSE ASSY.,AIR BALANCE LINE	2. 5535A
GASKET, OIL COOLER CORE-OUTER	4. 4040A	HOSE HUMP ADAPTOR TO INT TUBE	2. 4192A
GASKET, OIL COOLER HOUSING	4. 4055A	HOSE, COLD PLATE TO FILTER	2. 5116A
GASKET, OIL FILLER HOLE COVER	4. 5080A	HOSE, COLD PLATE TO FUEL FILTER	2. 5117A
GASKET, OIL FILLER TUBE ADAPTOR	4. 5007A	HOSE, FILTER TO CYLINDER HEAD	2. 5160A
GASKET, OIL PAN TO BLOCK	4. 7030A	HOSE, FLEXIBLE (BULK)	12.8550B
GASKET, OIL PRESSURE REGULATOR BODY	4. 1730C	HOSE, FUEL DRAIN	2. 5215A
GASKET, OIL PUMP INLET PIPE	4. 1520B	HOSE, FUEL PUMP INLET	2. 5060A
GASKET, OIL PUMP OUTLET PIPE	4. 1590B	HOSE, FUEL PUMP OUTLET TO COLD PLATE	2. 5115A
GASKET, ROCKER COVER	1. 8455A	HOSE, FUEL PUMP OUTLET TO FILTER	2. 5110A
GASKET, STARTING MOTOR	7. 3004A	HOSE, FUEL SUPPLY	2. 5009A
GASKET, TACHOMETER DRIVE COVER	7. 4447B	HOSE, GENERATOR VENT	7. 1012A
GASKET, TURBOCHARGER EXHAUST INLET CONNECTION	3. 5307A	HOSE, OIL FILTER	8. 1990A
GASKET, TURBOCHARGER OIL RETURN TUBE	3. 5506A	HOSE, WATER BYPASS TUBE	5. 2165C
GASKET, WATER PUMP COVER	5. 1236A	HOSE, WATER FILTER INLET	5. 7090A
GAUGE, AIR PRESSURE METRIC	12.6140B	HOSE, WATER FILTER OUTLET	5. 7100A
GEAR ASSY., ADJUSTABLE CAMSHAFT IDLER	1. 7221	HOSE, WATER PUMP TO OIL COOLER	5. 3401B
GEAR ASSY., HYDRAULIC MARINE	9. 1001A	HOUSING ASSY., FLYWHEEL	1. 5001A
GEAR ASSY., IDLER	1. 7220	HOUSING ASSY., GEAR CASE	1. 3156A
GEAR, ACCESSORY DRIVE SHAFT	1. 7642B	HOUSING, ACCESSORY DRIVE	1. 7627B
GEAR, CAMSHAFT AND BALANCE SHAFT	1. 7200	HOUSING, AIR COMPRESSOR DRIVE	12.4036A
GEAR, CRANKSHAFT TIMING	1. 3145	HOUSING, FAN DRIVE SPINDLE	5. 4103A
GEAR, FLYWHEEL RING	1. 4010A	HOUSING, OIL COOLER-ENGINE	4. 4050A
GEAR, FRESH WATER PUMP DRIVE	5. 1190	HOUSING, OIL TRANSFER COOLER-FILTER ADAPTOR	4. 4053A
GEAR, FUEL PUMP DRIVE	2. 2087	HOUSING, TURBOCHARGER TURBINE	3. 5003A
GEAR, FUEL PUMP DRIVEN	2. 2088	HUB, ADJUSTABLE IDLER GEAR	1. 7255
GEAR, HYDRAULIC PUMP DRIVE	12.5030A	HUB, AIR COMPRESSOR	12.4040A
GEAR, IDLER	1. 7222	HUB, CAMSHAFT GEAR	1. 7206
GEAR, OIL PUMP DRIVE	4. 1090A	HUB, CRANKSHAFT PULLEY	1. 3310C
GENERATOR ASSY.	7. 1001A	HUB, FLYWHEEL FLEXIBLE COUPLING	1. 4080A
GOVERNOR KIT, AIR COMPRESSOR	12.4305A	HUB, IDLER GEAR	1. 7250
GUIDE, DIPSTICK	4. 6020A	HUB, IDLER GEAR BEARING	1. 7228
GUIDE, EXHAUST VALVE	1. 8320		
H		I	
HAND CLEANERS	12.8070A	IDLER ASSY., GENERATOR DRIVE BELT	7. 1905A
HARNESS ASSY., INJECTOR	1. 8050	IDLER, PULLEY FAN BELT WITH ADJUSTING ARM	5. 4325A
HARNESS GROUND IGNITION	7. 8720C	IMPELLER, FRESH WATER PUMP	3. 7200
HARNESS, ECM BOAT BUILDER INTERFACE MODULE	2. 1690B	INJECTOR ASSY.	2. 1001A
HARNESS, ELECTRONIC DISTRIBUTOR UNIT TO INJECTOR	2. 1700B	INSERT, EXHAUST VALVE	1. 8330
HARNESS, ENGINE SENSORS TO DISCONNECT	2. 1720B	INSTALLATION KIT, WATER FILTER	5. 7010A
		INSULATION BLANKET TURBOCHARGER	3. 5535A
		INSULATOR ASSY.,CRANKSHAFT PULLEY	1. 3311C
		INTERCOOLER ASSY.	3. 7001

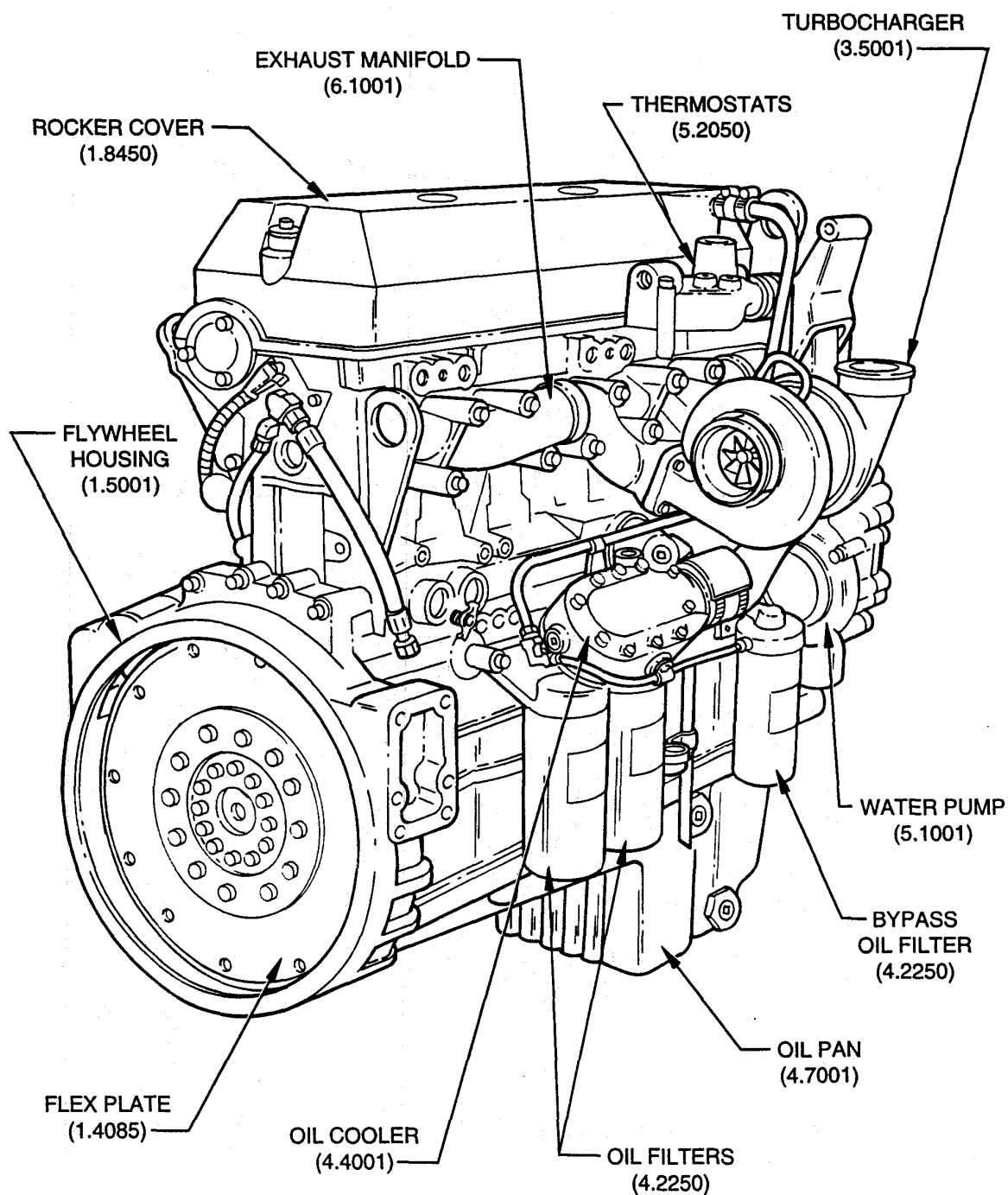
PART NAME	GROUP NO.	PART NAME	GROUP NO.
ISOLATOR, ROCKER COVER BOLT	1. 8461A		
J		O	
JACOBS BRAKE CYLINDER	1. 8070	OIL, ENGINE LUBRICATING	12.8025A
		OVERHAUL KIT, FUEL PUMP	2. 2004
K		OVERHAUL KIT, OIL PUMP	4. 1003A
KIT ENGINE OVERHAUL	1. 1006	P	
KIT FRESH WATER PUMP	3. 7180	PAINT, ENGINE TOUCH-UP	12.8001A
KIT WASTEGATE ACTUATOR	3. 5004A	PAN, OIL	4. 7001A
KIT, CONNECTING ROD BEARING AND GASKET	1. 6095	PANEL, CONTROL	7. 7470B
KIT, COOLANT ANALYSIS	12.8290A	PANEL, INSTRUMENT	12.8300A
KIT, COOLANT LEVEL SENSOR	2. 1670B	PIN, ALIGNMENT	2. 2012
KIT, CYLINDER LINER AND SEALS	1. 6181	PIN, PISTON	1. 6140
KIT, ENGINE ADAPTATION	1. 4074A	PIPE ASSY, BREATHER	4. 8001A
KIT, EPROM STABILIZER	2. 1502B	PIPE, OIL PUMP INLET	4. 1510B
KIT, FILTER MAINTENANCE-FUEL/OIL	12.8005A	PIPE, OIL PUMP OUTLET	4. 1580B
KIT, FUEL ANALYSIS	12.8293A	PISTON KIT	1. 6110
KIT, GENERATOR BRACKET TENSIONER & BELTS	7. 1940A	PLATE ASSY., ELECTRONIC DISTRIBUTOR UNIT COLD	2. 1520B
KIT, JACOBS BRAKE FIELD	1. 8073	PLATE, CAM AND BALANCE SHAFT THRUST	1. 7070
KIT, LOWER ENGINE BEARINGS AND GASKETS	1. 3003	PLATE, FLYWHEEL FLEXIBLE COUPLING	1. 4085A
KIT, OIL ANALYSIS	12.8291A	PLUG SPARK	7. 8700C
KIT, OIL FILL/DRAIN	4. 5090A	PLUG, BREATHER HOLE	4. 8043A
KIT, REPOWER CONNECTOR AND TERMINAL	2. 1755B	PLUG, OIL COOLER BYPASS VALVE	4. 4160A
KIT, TUBING	12.8390A	PLUG, OIL PAN DRAIN	4. 7080A
KIT, TURBOCHARGER REPAIR	3. 5008A	POWER TAKEOFF ASSY.	8. 1001A
KITS, SERVICE (ALL)	12.8715C	PROM AND CARRIER ASSY., ELECTRONIC CONTROL	2. 1505B
L		PULLEY AND HUB ASSY., FAN	5. 4015A
LAMP, INSTRUMENT PANEL	12.8360A	PULLEY, ACCESSORY DRIVE	1. 7605B
LCD DISPLAY ASSEMBLY	7. 7701C	PULLEY, CRANKSHAFT	1. 3280C
LEVER CONTROL, GEAR AND THROTTLE	7. 7430B	PULLEY, GENERATOR	7. 1500A
LOCK, EXHAUST VALVE SPRING	1. 8370	PUMP ASSY., FRESH WATER	5. 1001
LOCKRING, ACCESSORY DRIVE	1. 7650B	PUMP ASSY., FUEL	2. 2001
LUBRICATING COMPOUND THREAD	12.8110A	PUMP ASSY., HYDRAULIC	12.5001A
		PUMP ASSY., OIL	4. 1001A
M		R	
MANIFOLD, EXHAUST	6. 1001A	RECONDITIONING KIT, FRESH WATER PUMP	5. 1002
MINDER, ENGINE/MASTER	2. 1890B	REGULATOR ASSY., NAT GAS	2. 4136A
MIXING UNIT	2. 4137A	REGULATOR, OIL PRESSURE	4. 1670C
MODULE ASSY., ELECTRONIC CONTROL (ECM)	2. 1501B	RELIEF, VALVE OIL PRESSURE	4. 1671C
MODULE SPARK INTERFACE	7. 8725C	REPAIR KIT, CONNECTOR AND SEAL HARNESS	2. 1758B
MODULE, BOAT BUILDER INTERFACE	2. 1512B	REPAIR KIT, HARNESS TERMINAL	2. 1757B
MODULE, CONTROL STATION INTERFACE	7. 7450B	RETAINER, BREATHER PAD	4. 8065A
MODULE, ELECTRONIC DISTRIBUTOR UNIT (EDU)	2. 1510B	RETAINER, CAMSHAFT AND ACCESSORY GEAR	1. 7240
MODULE, ENGINE ROOM INTERFACE	7. 7440B	RETAINER, CLUTCH PILOT BEARING	1. 4045A
MODULE, SIGNAL NOISE ENHANCEMENT	2. 1655B	RETAINER, FRESH WATER PUMP BEARING AND SEAL	5. 1071
MOTOR ASSY., STARTING	7. 3001A	RETAINER, PISTON PIN	1. 6150
MOUNTING, ENGINE FRONT SUPPORT ELASTIC	11.1072A		

PART NAME	GROUP NO.	PART NAME	GROUP NO.
RING SET, PISTON	1. 6115	SHIELDING, FLEXIBLE HOSE	2. 5255A
RING, INJECTOR SEAL	2. 1040A	SHIM, OIL PUMP	4. 1030A
RING, PISTON COMPRESSION	1. 6120	SLEEVE, CRANKSHAFT OIL SEAL	1. 3167A
RING, PISTON OIL CONTROL	1. 6130	SLEEVE, CRANKSHAFT REAR OIL SEAL	1. 3066
ROD, PUSH	1. 8180	SOCKET, LAMP INSTRUMENT PANEL	12.8365A
ROTATOR, VALVE	1. 8365	SPACER, GENERATOR ADJUSTING STRAP	7. 1581A
S		SPACER, IDLER GEAR BEARING	1. 7226
SCREW, ROCKER ARM ADJUSTING	1. 8135	SPACER, PULLEY	5. 4018A
SEAL, ACCESSORY DRIVE OIL	1. 7660B	SPACER, ROCKER SHAFT	1. 8173
SEAL, BALANCE WEIGHT COVER OIL	1. 7472A	SPACER, VIBRATION DAMPER	1. 3275B
SEAL, CAMSHAFT THRUST PLATE	1. 7075	SPINDLE ASSY., FAN DRIVE	5. 4102A
SEAL, CRANKSHAFT OIL	1. 5004A	SPINDLE, CRANKSHAFT PULLEY	1. 3283C
SEAL, CRANKSHAFT OIL FRONT	1. 3166A	SPRING, EXHAUST VALVE	1. 8340
SEAL, CRANKSHAFT OIL-FRONT	1. 3040	SPRING, OIL COOLER BYPASS VALVE	4. 4150A
SEAL, CRANKSHAFT OIL-REAR	1. 3060	SPRING, OIL FILTER BYPASS VALVE	4. 2486A
SEAL, CYLINDER LINER	1. 6190	SPRING, OIL PRESSURE REGULATOR	4. 1690C
SEAL, FAN SPINDLE	5. 4160A	STAND, ENGINE SHIPPING	11.1045A
SEAL, FRESH WATER PUMP	3. 7210	STRAINER ASSY., SPIN-ON FUEL	2. 3006A
SEAL, FUEL PUMP OIL	2. 2070	STRAINER, AIR COMPRESSOR ON COMPRESSOR	12.4300A
SEAL, THERMOSTAT	5. 2060B	STRAINER, OIL FILLER TUBE	4. 5020A
SEALANT, RTV	12.8255A	STRAP, GENERATOR ADJUSTING	7. 1580A
SEAT, EXHAUST VALVE SPRING	1. 8360	STRAP, WIRE ASSY. TO GENERATOR TERMINAL	7. 1633A
SEAT, OIL PRESSURE REGULATOR	4. 1701C	STUD, EXHAUST MANIFOLD TO TURBOCHARGER	6. 1022A
SENSOR ASSY., KNOCK	2. 1648B	SUPPORT ASSY., FAN BELT IDLER PULLEY	5. 4347A
SENSOR, AIR INTAKE	3. 3810C	SUPPORT, BELT TENSIONER BRACKET	7. 1935A
SENSOR, AIR PRESSURE	2. 1650B	SUPPORT, ENGINE FRONT	11.1070A
SENSOR, AIR TEMPERATURE	2. 1647B	SUPPORT, ENGINE REAR	11.1100A
SENSOR, COOLANT LEVEL	2. 1665B	SUPPORT, FAN MOUNTING	5. 4025A
SENSOR, MAG. CRANKSHAFT	2. 1620B	SUPPORT, GENERATOR BRACKET	7. 1596A
SENSOR, MAG. IDLER	2. 1610B	SUPPORT, OIL FILTER MOUNTING.	4. 2470A
SENSOR, OIL OR FUEL PRESSURE	2. 1600B	SWITCH, EMERGENCY BACKUP	7. 7465B
SENSOR, OIL, FUEL OR COOLANT TEMPERATURE	2. 1630B	T	
SENSOR, OXYGEN	2. 1671B	TENSIONER ASSY., GENERATOR DRIVE	7. 1900A
SEPARATOR, FUEL WATER	2. 3590A	TENSIONER, BELT	5. 4340A
SERVICE KIT, INJECTOR	2. 1002A	TERMINAL RING TYPE	1. 8810
SETS, SERVICE (ALL)	12.8720C	THERMOSTAT ASSY.	5. 2050B
SHAFT AND GEAR ASSY., OIL PUMP DRIVE	4. 1065A	THERMOSTAT, LUBE OIL	4. 2288A
SHAFT AND GEAR ASSY., OIL PUMP DRIVEN	4. 1075A	THREADLOCK & SEALER	12.8242A
SHAFT ASSY., FRESH WATER PUMP	5. 1050	TRIP RECORDER ANALYSIS CONTROL SYSTEM	2. 1900B
SHAFT ASSY., ROCKER	1. 8160	TUBE AIR INTAKE	2. 4171A
SHAFT, ACCESSORY DRIVE	1. 7640B	TUBE EXTENSION (NATURAL GAS ENGINE)	1. 8453A
SHAFT, AIR COMPRESSOR DRIVE	12.4047A	TUBE GAS GOVERNOR INLET	2. 4170A
SHAFT, TACHOMETER DRIVE	7. 4435B	TUBE, AIR COMPRESSOR BOOSTER	12.4375A
SHELL, BREATHER	4. 8055A	TUBE, AIR COMPRESSOR LUBE OIL DRAIN	12.4070A
SHELL, CONNECTING ROD BEARING	1. 6100	TUBE, AIR COMPRESSOR LUBE OIL SUPPLY	12.4065A
SHELL, CRANKSHAFT MAIN BEARING	1. 3090	TUBE, AIR COMPRESSOR WATER INLET	12.4085A
SHIELD ASSY., ELECTRONIC UNIT DISTRIBUTOR	2. 1525B	TUBE, AIR COMPRESSOR WATER OUTLET	12.4090A
HEAT		TUBE, FUEL PUMP TO CYLINDER HEAD	2. 5101A

PART NAME	GROUP NO.	PART NAME	GROUP NO.
TUBE, GENERATOR OIL DRAIN	7. 1003A	V	
TUBE, GENERATOR OIL SUPPLY	7. 1004A		
TUBE, INTAKE ADAPTOR	2. 9397A		
TUBE, JUNCTION BLOCK TO COLD PLATE	2. 5167A		
TUBE, JUNCTION BLOCK TO CYLINDER HEAD	2. 5175A		
TUBE, OIL FILLER	4. 5001A		2. 2130
TUBE, OIL FILTER INLET	4. 3001A		1. 8310
TUBE, OIL FILTER OUTLET	4. 3020A		2. 5209A
TUBE, STRAINER TO FUEL PUMP	2. 5050A		2. 5006A
TUBE, TURBOCHARGER OIL RETURN	3. 5505A		2. 5260A
TUBE, TURBOCHARGER OIL SUPPLY	3. 5500A		1. 8315
TUBE, WATER BYPASS	5. 2160C		4. 4066A
TUBE, WATER PUMP TO OIL COOLER	5. 3400B		4. 4140A
TURBOCHARGER	3. 5001A		4. 2485A
		W	4. 1700C
		WASHER, CRANKSHAFT MAIN BEARING THRUST	1. 3100
		WIRE SPARK PLUG	7. 8715C



TYPICAL SERIES 60 ENGINE



TYPICAL SERIES 60 ENGINE

DETROIT DIESEL

Custom Parts Catalog

ENGINE DESCRIPTION

SERIAL NUMBER: 06R0392220

SERIES NUMBER: 60

MODEL NUMBER: 6063TK36

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PART #	NAME AND DESCRIPTION	QUANTITY
1.1000	- CYLINDER BLOCK	
BLOCK, CYLINDER		
FOR COMPONENTS OF CYLINDER BLOCK ASSEMBLY REFER TO ASSEMBLY BREAKDOWN PAGE A1		
23517417	BLOCK ASSY. (ADAPTORLESS AIR COMP)	1
BLOCK, CYLINDER		
23511572	PLUG, 1/2" NPTF SQ. SOC. (12.9550)	2
5139988	PLUG, CUP 1" DIA. STNLS.	2
5139991	PLUG, 1-1/2" CUP (1.1001)	5
5151272	PLUG, 11/32" SPECIAL (1.8160)	1
8922327	PLUG, 1/4" NPTF (12.9550)	2
8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)	3
8929015	DOWEL PIN, 16 MM., CIRCULAR (1.1001)	1
8929022	DOWEL PIN 16 MM., DIAMOND (1.1001)	2
8929124	BOLT, M20 X 178.0	14
8929125	WASHER, SPECIAL	14
8929152	PIN, DOWEL 20.0 MM CIRCULAR	1
8929153	PIN, DOWEL 20.0 MM DIAMOND	1
8929276	CAP, MAIN BEARING (UNSLOTTED)	7
8929432	PLUG, WEEP HOLE (SPECIAL)	6
8929594	PLUG, 3/8"-18 DIA. PIPE EXT. HEX. SOC.	1
23516104	PLUG PIPE 1/4-18 HEX HD STL CTD RED	1
8922327	PLUG, 1/4" NPTF (12.9550)	4
8929432	PLUG, WEEP HOLE (SPECIAL)	6
23509239	STUD. M12X1.75X34.0	1
8929015	DOWEL PIN, 16 MM., CIRCULAR (1.1001)	1
8929022	DOWEL PIN 16 MM., DIAMOND (1.1001)	2
8929152	PIN, DOWEL 20.0 MM CIRCULAR	1
8929153	PIN, DOWEL 20.0 MM DIAMOND	1
GASKET KIT, ENGINE OVERHAUL		
A GASKET KIT CONSISTS OF THE NECESSARY GASKETS FOR ONE COMPLETE ENGINE OVERHAUL.		
23512691	GASKET KIT W/SQUARE RING SEALS	AR
1.2000	- CYLINDER HEAD	
HEAD ASSY., CYLINDER		
FOR COMPONENTS OF CYLINDER HEAD ASSEMBLIES REFER TO ASSEMBLY BREAKDOWN PAGE A1.		
R23511218	* HEAD ASSY.S-60 (REMANUFACTURED)W/CODE U EXH VLV	AR
R23512449	+ HEAD ASSY.S-60 (REMANUFACTURED)W/CODE H EXH VLV	AR
8929872	HEAD ASSY. (4 VALVE) (SIAMESE PORT)	1
HEAD ASSY., CYLINDER		
23513197	PLUG, 3/8"-18 PIPE SQ SOC COATED	2
5109157	PLUG, 1-1/4" CUP (5.5001)	11
5138638	DOWEL, .626"X.37" HOLLOW (4.1040)	7
5139991	PLUG, 1-1/2" CUP (1.1001)	2
8923313	PLUG, 3/4" PIPE (12.9550)	2
8923916	PLUG, 1/2" PIPE (12.9550)	2
23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP	1
8926993	PLUG, FUSE (1/4"-18 RECESSED SOC. HD.)	1
8929126	INSERT, (EXHAUST) (STD) (6.261MM-6.363MM)	12
8929127	INSERT, (INTAKE) (STD) (7.155MM-7.257MM)	12
8929129	BOLT, M12 X 1.75 X 65	7
8929625	INSERT, (INTAKE) (.010" U.S.) (6.901MM-7.003MM)	AR
8929626	INSERT, (INTAKE) (.020" U.S.) (6.647MM-6.749MM)	AR
8929627	INSERT, (INTAKE) (.030" U.S.) (6.393MM-6.495MM)	AR
8929628	INSERT, (EXHAUST) (.010" U.S.) (6.007MM-6.109MM)	AR
8929629	INSERT, (EXHAUST) (.020" U.S.) (5.753MM-5.855MM)	AR
8929630	INSERT, (EXHAUST) (.030 U.S.) (5.499MM-5.601MM)	AR
8929631	GUIDE, (14.30MM-14.32MM DIA.)	24
8929738	CAP, CAMSHAFT BEARING, FRONT (IDENTIFICATION-NO. 1	1
8929739	CAP, CAMSHAFT BEARING, REAR (IDENTIFICATION-NO. 7)	1
8929843	DOWEL, CAMSHAFT DRIVE (1.7004)	3
8929870	CAP, CAMSHAFT BEARING, INTERMEDIATE (1.7042)	4
8929871	CAP, CAMSHAFT BEARING, CENTER (IDENTIFICATION-NO.	1
TUBE, INJECTOR HOLE		
23501580	TUBE KIT (INCLUDES SEAL RING IN 1.2046)	6
RING, INJECTOR HOLE TUBE SEAL		
23515470	SEAL RING INJ TUBE GREEN FLUOROCARBON	6

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PART #	NAME AND DESCRIPTION	QUANTITY
1.2000 - CYLINDER HEAD		
8929123	BOLT, M16 X 2 X 175 (12.9005)	38
8929328	WASHER, 16.8" X 25.8" (12.9190)	38
* THRU UNITS 6R37023 WITH 8929590 EXHAUST VALVES.		
+ EFFECTIVE WITH UNITS 6R37024 WITH 23506350 EXHAUST VALVES.		
GASKET KIT, CYLINDER HEAD OVERHAUL		
GASKET KIT CONSISTS OF ALL GASKETS NECESSARY TO REPLACE ONE CYLINDER HEAD.		
23501572	GASKET KIT	AR
GASKET, CYLINDER HEAD COMPRESSION		
23518340	GASKET CYL HEAD	1
1.2000A - ENGINE, LIFTER BRACKET		
BRACKET, ENGINE LIFTER-FRONT		
8929754	BRACKET (ITEM 1)	1
11509530	BOLT, M14 X 2.0 X 40 MM	2
BRACKET, ENGINE LIFTER - REAR		
8929408	BRACKET (ITEM 2)	1
23518652	BRACKET ENG LFTR RR LB HD PLATED S60	1
11509528	BOLT, M12 X 1.75 X 30 MM	5
1.3000 - CRANKSHAFT, OIL SEALS AND STABILIZERS		
CRANKSHAFT ASSY.		
NEW CRANKSHAFTS FOR WIDER CONN ROD BEARINGS AND CONN ROD ASSYS. MUST BE USED TOGETHER TO ENSURE INTERCHANGEABILITY.		
23515598	CRANKSHAFT, 6 HOLE 12.7L (ACCOMMODATE WIDER CONN ROD BEARINGS)	1
KIT, LOWER ENGINE BEARINGS AND GASKETS		
23519904	LOWER ENGINE BEARING AND GASKET 47MM	AR
23519905	LOWER ENGINE BEARING AND GASKET 47MM .010US	AR
23519906	LOWER ENGINE BEARING AND GASKET 47MM .020US	AR
SEAL, CRANKSHAFT OIL-FRONT		
NOTE		AR
	SEAL (REFER TO 1.3166 IN 1.3000A)	
SEAL, CRANKSHAFT OIL-REAR		
NOTE		AR
	SEAL (REFER TO 1.5004 IN 1.5000A)	
SLEEVE, CRANKSHAFT REAR OIL SEAL		
NOTE		AR
	SLEEVE (REFER TO 1.5012 IN 1.5000A)	
SHELL, CRANKSHAFT MAIN BEARING		
A SHELL SET CONSISTS OF ONE UPPER AND ONE LOWER BEARING SHELL.		
8929670	SHELL SET, STANDARD (MAIN)	6
8929671	SHELL SET, .254MM UNDER SIZE (MAIN)	AR
8929672	SHELL SET, .508MM UNDER SIZE (MAIN)	AR
8929673	SHELL SET, .762MM UNDER SIZE (MAIN)	AR
8929680	SHELL SET, STANDARD (THRUST)	1
8929681	SHELL SET, .254MM UNDER SIZE (THRUST)	AR
8929682	SHELL SET, .508MM UNDER SIZE (THRUST)	AR
8929683	SHELL SET, .762MM UNDER SIZE (THRUST)	AR
WASHER, CRANKSHAFT MAIN BEARING THRUST		
8929085	WASHER, (UPPER THRUST ONLY)	2
8929697	WASHER, .127MM O.S.	AR
8929698	WASHER, .254MM O.S.	AR
CAP, CRANKSHAFT MAIN BEARING		
8929276	CAP, MAIN BEARING (UNSLOTTED)	7
BOLT, CRANKSHAFT MAIN BEARING CAP		
8929124	BOLT, M20 X 178.0	14

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PART #	NAME AND DESCRIPTION	QUANTITY
1.3000 - CRANKSHAFT, OIL SEALS AND STABILIZERS		
8929125	WASHER, SPECIAL	14
GEAR, CRANKSHAFT TIMING		
23513537	WHEEL, TIMING RING (2.3145)	1
8929497	GEAR, RH, 82T, 133.6MM I.D. 12.7L	1
8929808	KEY, .25"X1.375" (12.9350)	1
1.3000A - CRANKSHAFT FRONT COVER		
HOUSING ASSY., GEAR CASE		
23505875	HOUSING ASSY., REAR MOUNT WATER PUMP (INCLUDES 8929333 BOLTS & DOWEL PINS IN 1.3156)	1
8929760	SUPPORT (1.3160)	1
8929015	DOWEL PIN, 16 MM., CIRCULAR (1.1001)	1
8929022	DOWEL PIN 16 MM., DIAMOND (1.1001)	1
8929740	SEAL, RING .134X.074X.480 I.D.)	1
23505062	BOLT, M10 X 1.5 X 40 (12.9001)	9
11503454	BOLT, M10 X 1.5 X 20.0	2
11505299	BOLT, M10 X 1.5 X 30.0 MM	4
11513811	BOLT, M12 X 1.75 X 20 MM	1
181333	BOLT, 5/16"-24 X .625"	1
8929333	BOLT, M12 X 1.75 X 65 (SPECIAL)	3
5155596	WASHER, 21/64" SPECIAL COPPER (4.7120)	1
5180370	WASHER, .55" I.D. COPPER (7.4969)	1
COVER, GEAR CASE		
23505876	COVER, FRONT	1
11504986	BOLT, M8 X 1.25 X 14 MM	2
5141452	SEAL, RING (3.4143)	1
8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)	1
11509523	BOLT, M10 X 1.5 X 55 MM	14
11509525	BOLT, M10 X 1.5 X 110 MM	4
23507422	GUARD, BOLT V18 DMPR & FRT CVR	1
SEAL, CRANKSHAFT OIL FRONT		
23518355	SEAL FRONT CR/SHAFT CR UNITIZED WARPAROUND	1
COVER, ENGINE FRONT ACCESSORY DRIVE		
23517382	COVER ACSRY FRONT 6 HOLE	1
8929099	COVER, FRONT ACCESSORY	2
11504822	BOLT, M8 X 1.25 X 30	11
GASKET, ENGINE FRONT ACCESSORY DRIVE		
8929299	GASKET, ACCESSORY FRONT	2
8929130	GASKET, UPPER RIGHT REAR & FRONT CAM ACCESS.	1
1.3000B - VIBRATION DAMPER		
DAMPER, VIBRATION		
8929502	DAMPER, 11L & 12.7L	1
SPACER, VIBRATION DAMPER		
8929527 *	SPACER	1
5133981	WASHER, 19/32" (1.1001)	6
8929222	BOLT, 9/16"-18 X 2 1/2"	6
* USE SPACER WHEN CRANKSHAFT PULLEY IS NOT REQUIRED.		
1.3000C - CRANKSHAFT PULLEY		
PULLEY, CRANKSHAFT		
8929077	PULLEY, .188 MM O.D., 4 GROOVE (ITEM 3)	1
8929222	BOLT, 9/16"-18 X 2 1/2"	6
5133981	WASHER, 19/32" (1.1001)	6
ADAPTOR KIT, POWER TAKE OFF		
NOTE: ITEMS IN THIS SECTION MARKED * INDICATE COMPONENTS OF KIT 23504440. !		
NOTE: ITEMS IN THIS SECTION MARKED & INDICATE COMPONENTS OF KIT 23504441.		
23504440	ADAPTOR KIT, FRT MOUNTED PTO (SPICER 1310 SERIES)	AR
23504441	ADAPTOR KIT, FRT MOUNTED PTO (SPICER 1350 SERIES)	AR
23504106	PULLEY ASSY., C/S FRT (4 GROOVE, 188.0MM DIA.)	1

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PART #	NAME AND DESCRIPTION	QUANTITY
1.3000C - CRANKSHAFT PULLEY		
ADAPTOR KIT, POWER TAKE OFF		
8920172	DOWEL, CAMSHAFT (1.7200)	1
8920172	DOWEL, CAMSHAFT (1.7200)	1
23504108	HUB ASSY., C/S FRT (SPICER 1350 SERIES)	1
23504122	HUB ASSY., C/S FRT (SPICER 1310 SERIES)	1
145643	BALL, STEEL 3/8"	6
5103522	INSULATOR ASSY.	1
23504112	RETAINER, C/S PULLEY	1
23501274	BOLT, 1"-14X3.50" L	1
8929222	BOLT, 9/16"-18 X 2 1/2"	6
5133981	WASHER, 19/32" (1.1001)	6
1.4000A - FLYWHEEL		
FLYWHEEL ASSY.		
INCLUDES GEAR IN 1.4010. "C" INDICATES A CHAMFERED ASSY.		
23514751	FLYWHEEL ASSY, SAE1 TYPE 1, GMHD & 1.76	1
5100532	PLATE, SCUFF (BEARING RETAINER)	1
9410925	BOLT, 9/16"-18 X 2 1/4" (12.9001)	12
GEAR, FLYWHEEL RING		
5184773	GEAR, SAE #1, 118 TEETH, UNCHAMFERED	1
1.5000A - FLYWHEEL HOUSING		
HOUSING ASSY., FLYWHEEL		
23505124	HOUSING (SAE #1; 8 BOLT MT PAD)	1
HOUSING ASSY., FLYWHEEL		
23514442	PIPE PLUG 1 1/4 7/8 TPR SQ SOCHD	1
5106899	PLUG, 3/4"-16	1
23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP	1
11500945	BOLT, M12 X 1.75 X 45.0	8
11500950	BOLT, M12 X 1.75 X 90.0	4
23509483	WASHER, 33/64"X1 1/16"X1/8"	12
SEAL, CRANKSHAFT OIL		
23516969	SEAL & SLEV ASM RR CR/SHF TEFLON LIP	1
1.6000 - CONNECTING ROD AND PISTON		
CONNECTING ROD ASSY.		
QUANTITIES SHOWN ARE PER CYLINDER. A CROSSHEAD ROD ASSY. INCLUDES A CAP. WHICH IS NOT SOLD SEPARATELY, AND ONLY THOSE ITEMS IN 1.6001.		
NEW CRANKSHAFTS FOR WIDER CONN ROD BEARINGS AND CONN ROD ASSYS. MUST BE USED TOGETHER TO ENSURE INTERCHANGEABILITY.		
23515593	ROD ASSY., 15:1 12.7L (WIDER BEARING SURFACE)	1
8929355	BOLT, MJ14 X 1.5 X 108	2
8929019	NUT, MJ14X1.5	2
KIT, CONNECTING ROD BEARING AND GASKET		
23521522	KIT CONN ROD BRG (STD) AND GASKETS S60 47MM (W/WIDER CONN ROD BEARINGS)	AR
SHELL, CONNECTING ROD BEARING		
A SHELL SET CONSISTS OF ONE (1) UPPER AND ONE (1) LOWER BEARING SHELL. NEW CRANKSHAFTS FOR WIDER CONN ROD BEARINGS AND CONN ROD ASSYS. MUST BE USED TOGETHER TO ENSURE INTERCHANGEABILITY.		
23515581	SHELL SET, STD. (WIDER BEARINGS)	1
23515582	SHELL SET, .254 MM U.S. (WIDER BEARINGS)	AR
23515583	SHELL SET, .508 MM U.S. (WIDER BEARINGS)	AR
23515584	SHELL SET, .762 MM U.S. (WIDER BEARINGS)	AR
PISTON KIT		
A PISTON KIT INCLUDES PISTON ASSY., 3 PC. BUSHING, SKIRT AND PIN IN 1.6140. QUANTITIES SHOWN ARE PER CYLINDER.		
23519646	PISTON KIT, LRG OD DOME & SKIRT 2.5MM RG	1
RING SET, PISTON		
RING SET CONSISTS OF SUFFICIENT RINGS FOR ONE (1) PISTON.		
23503747	RING SET, W/KEYSTONE COMPRESSION RINGS (2.5MM TOP)	1

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PART #	NAME AND DESCRIPTION	QUANTITY
1.6000 - CONNECTING ROD AND PISTON		
RING, PISTON COMPRESSION		
8929844	RING, TOP (2.5 MM KEYSTONE)	1
8929845	RING, BOTTOM (KEYSTONE)	1
RING, PISTON OIL CONTROL		
23515500	RING PSTN OIL CONT CR/HD	1
23515499	EXPANDER	1
PIN, PISTON		
8929087	PIN	1
8929337	BOLT, M14 X 1.5 X 60 12 PT.	2
8929504	SPACER	2
BEARING, PISTON PIN.		
KIT INCLUDES (1) TOP BEARING AND (2) EAR BEARINGS WHICH ARE NOT SERVICED SEPARATELY.		
23519723	KIT BEARING	1
KIT, CYLINDER LINER AND SEALS		
KIT INCLUDES NOT SERVICED SEPARATELY LINER AND SEALS IN 1.6190		
23514285	KIT, CYL. LINER AND SEALS (TLC)	1
CYLINDER KIT		
A KIT INCLUDES ITEMS IN 1.6110, 1.6115, 1.6140 AND 1.6181.		
23519647	CYLINDER KIT PTS STD LNR LRG OD DOME 2.5MM	1
SEAL, CYLINDER LINER		
8929013	SEAL, CREVICE	1
1.7000 - CAMSHAFT AND GEAR TRAIN		
CAMSHAFT ASSY.		
A CAMSHAFT ASSY. INCLUDES DOWEL IN 1.7001.		
R23513564	REMANUFACTURED 23513564	AR
23513564	CAMSHAFT ASSY. 12L	1
8920172	DOWEL, CAMSHAFT (1.7200)	1
COVER, CAMSHAFT BEARING CAP		
23514716	COVER RR CAMSHF S60	1
11509511	BOLT, M8 X 1.25 X 20 MM	3
BEARING, CAMSHAFT		
A BEARING SET CONSISTS OF ONE UPPER AND ONE LOWER BEARING SHELL.		
8929690	BEARING SET (STD.)	7
8929691	BEARING SET, .254 MM O.S.	AR
8929692	BEARING SET, .508 MM O.S.	AR
8929693	BEARING SET, .762 MM O.S.	AR
CAP, CAMSHAFT BEARING		
8929738	CAP, CAMSHAFT BEARING, FRONT (IDENTIFICATION-NO. 1	1
8929870	CAP, CAMSHAFT BEARING, INTERMEDIATE (1.7042)	4
8929871	CAP, CAMSHAFT BEARING, CENTER (IDENTIFICATION-NO.	1
8929739	CAP, CAMSHAFT BEARING, REAR (IDENTIFICATION-NO. 7)	1
8929740	SEAL, RING .134X.074X.480 I.D.	2
5138638	* DOWEL, .626"X.37" HOLLOW (4.1040)	7
* FIG. 1 OF 1.2000.		
BOLT, CAMSHAFT BEARING CAP		
8929129	BOLT, M12 X 1.75 X 65	7
PLATE, CAM AND BALANCE SHAFT THRUST		
23521892	PLATE, CAM THRUST 3 BOLT	1
11504822	BOLT, M8 X 1.25 X 30	3
SEAL, CAMSHAFT THRUST PLATE		
23521894	SEAL, CAM THRUST PLATE TO CYL HD 3 BOLT	1
8929318	SEAL (GEAR HOUSING)	1
GEAR, CAMSHAFT AND BALANCE SHAFT		
8929379	GEAR 111T	1

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PART #	NAME AND DESCRIPTION	QUANTITY
1.7000 - CAMSHAFT AND GEAR TRAIN		
HUB, CAMSHAFT GEAR		
8929810	KEY, NON ROCK (12.9350)	1
8929492	HUB	1
23504851	BOLT, M18 X 1.5 X 100 (12.9001)	1
GEAR ASSY., IDLER		
A GEAR AND HUB ASSY. IS SERVICED AS A COMPLETE ASSY. ONLY.		
23513559	GEAR AND HUB ASSY., BULL ACCSY. & CAMSHF DDEC III	1
8929448	BOLT, M12 X 1.75 X 35	4
GEAR ASSY., ADJUSTABLE CAMSHAFT IDLER		
8929322	GEAR ASSY. (INCLUDES BUSHING WHICH IS NOT SERVICED SEPARATELY)	1
HUB, ADJUSTABLE IDLER GEAR		
8929111	HUB	1
11509607	NUT, M12 X 1.75	3
8929336	PLATE, ADJUSTMENT	1
1.7000B - ACCESSORY DRIVE		
DRIVE ASSY., ACCESSORY		
23512830	COVER (1.3191)	1
23512877	GASKET, COVER (1.3192)	1
11504822	BOLT, M8 X 1.25 X 30	5
1.8000 - VALVE AND INJECTOR OPERATING MECHANISM		
HARNESS ASSY., INJECTOR		
23513557	HARNESS EDU TO INJ JAKE BRK	1
ARM ASSY., EXHAUST VALVE ROCKER		
ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.		
8929550	ARM ASSY., EXHAUST	6
R8929550	REMANUFACTURED 8929550	AR
9421740	PLUG, CUP 3/16" (12.9320)	12
ARM ASSY., INTAKE VALVE ROCKER		
ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.		
8929544	ARM ASSY., INTAKE	6
R8929544	REMANUFACTURED 8929544	AR
ARM ASSY., INJECTOR ROCKER		
ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.		
R23513939	REMANUFACTURED 23513939	AR
23513939	ARM ASSY., INJ RKR CER RLR HONED BUSHING	6
SCREW, ROCKER ARM ADJUSTING		
23505056	KIT, VLV. ADJ SCREW INJ & INTAKE ARMS (INCLUDES IT EMS IN 1.8135 MARKED "*" AT A QTY. OF 1)	AR
8929646	KIT, VLV ADJ. SCREW EXH ARMS (INCLUDES ITEMS IN 1. 8135 MARKED "=" AT A QTY.OF 1)	AR
23517283	BUTTON, VALVE S50/60	30
8929607	SCREW, W/3/16" INTERNAL SOCKET END	18
8929751	SCREW, W/9/32" EXTERNAL SOCKET END	12
23514371	NUT, 3/8"-24 HEX JAM	30
8929494	RETAINER (1.8090)	30
SHAFT ASSY., ROCKER		
23513530	SHAFT ASSY., LUBRITED (INCLUDES PLUG)	2
8929588	STUD, M12 X 1.75 X 123.0 (1.8170)	2
8929740	SEAL, RING .134X.074X.480 I.D.	2
9421745	PLUG, CUP 1/2" (12.9330)	2
8929587	BOLT, M12 X 1.75 X 110.0 (1.7046)	6
23500708	NUT, M12 X 1.75	2
SPACER, ROCKER SHAFT		

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PART #	NAME AND DESCRIPTION	QUANTITY
1.8000 - VALVE AND INJECTOR OPERATING MECHANISM		
8929586	SPACER (01.8170)	8
VALVE, EXHAUST 23507504	VALVE KIT (IDENTIFICATION-H) (INCLUDES SEAL IN 1.8320 AND LOCK IN 1.8370)	12
VALVE, INTAKE 23501576	VALVE KIT (INCLUDES SEAL IN 1.8320 AND LOCK IN 1.8370)	12
GUIDE, EXHAUST VALVE 8929631	GUIDE, (14.30MM-14.32MM DIA.)	24
8929072	SEAL	24
8929633	GUIDE (14.43MM-14.45MM DIA.)	AR
INSERT, EXHAUST VALVE 8929127	INSERT, (INTAKE) (STD) (7.155MM-7.257MM)	12
8929625	INSERT, (INTAKE) (.010" U.S.) (6.901MM-7.003MM)	AR
8929126	INSERT, (EXHAUST) (STD) (6.261MM-6.363MM)	12
8929626	INSERT, (INTAKE) (.020" U.S.) (6.647MM-6.749MM)	AR
8929627	INSERT, (INTAKE) (.030" U.S.) (6.393MM-6.495MM)	AR
8929628	INSERT, (EXHAUST) (.010" U.S.) (6.007MM-6.109MM)	AR
8929629	INSERT, (EXHAUST) (.020" U.S.) (5.753MM-5.855MM)	AR
8929630	INSERT, (EXHAUST) (.030 U.S.) (5.499MM-5.601MM)	AR
SPRING, EXHAUST VALVE 8929415	SPRING (YELLOW STRIPE)	24
SEAT, EXHAUST VALVE SPRING 8929076	SEAT (2.2MM-2.4MM)	24
8929634	SEAT (2.45MM-2.65MM)	AR
8929635	SEAT (2.70MM-2.90MM)	AR
8929636	SEAT (2.95MM-3.15MM)	AR
ROTATOR, VALVE 8929105	ROTATOR	24
LOCK, EXHAUST VALVE SPRING 8929573	LOCK, KEY EXHAUST VALVE SPRING	48
1.8000A - ROCKER COVER		
COVER ASSY., ROCKER 8929139	COVER (THERMOSET SHEET MOLDING COMPOUND)	1
23506062	PLUG	2
23505110	NAME PLATE SERIES 60	AR
GASKET, ROCKER COVER 23516322	GASKET-ROCKER COVER S60	1
BOLT, ROCKER COVER 23517913	BOLT M10 X 1.5 X 125.0	4
ISOLATOR, ROCKER COVER 23517912	BOLT ISOLATOR	4

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PART #	NAME AND DESCRIPTION	QUANTITY
2.1000A - FUEL INJECTOR		
INJECTOR ASSY. R5235695	INJECTOR, (10MM, 9.640 X 155) 12L	6
SERVICE KIT, INJECTOR 5234934 5236116	KIT, EUI GROOVED SOLENOID STATOR KIT, EUI SOLENOID SEALS & SCREWS	AR AR
RING, INJECTOR SEAL FORMER STYLE EUI INJECTOR BODY USED 2-UPPER AND 2-LOWER SEAL RINGS. CURRENT STYLE EUI INJECTOR BODY USE 1-UPPER AND 2-LOWER SEAL RINGS.		
5234702	RING, SEAL UPPER	1
5234699	RING, SEAL LOWER	2
5104701	SEAL RING, INJECTOR HOLE TUBE (1.2046) (AUXILIARY INJECTOR SEAL)	AR
CLAMP, INJECTOR 8929088 8929021 8929393	CLAMP WASHER BOLT, M10 X 1.5 X 70.0 (12.9001)	6 6 6
2.1000B - INJECTOR CONTROLS ELECTRONIC		
MODULE ASSY., ELECTRONIC CONTROL (ECM) R23519308 23512309 23512307	MODULE ELECT CONT MOD 12/24V 8 IN DDECIV BOLT M8 1.25 SHOULDER 12 PT HD ISOLATOR, ECM MOUNT	1 4 8
SENSOR, OIL OR FUEL PRESSURE 5101020 8923847	STRAP, NYLON (2.5255) PLUG, PIPE 1/4-18" NPTF	9 1
SENSOR, MAG. IDLER 8929387 11504986	SENSOR (SRS) BOLT, M8 X 1.25 X 14 MM	1 4
SENSOR, MAG. CRANKSHAFT 8929388 11504986	SENSOR (TRS) BOLT, M8 X 1.25 X 14 MM	1 1
SENSOR, OIL, FUEL OR COOLANT TEMPERATURE 23518092	SENSOR ASSY., OIL WATER FUEL & AIR TEMPERATURE	1
SENSOR, AIR TEMPERATURE 23515250 11503454	SENSOR ASSY., AIR TEMP PLSTC DDEC III BOLT, M10 X 1.5 X 20.0	1 1
SENSOR, COOLANT LEVEL 23514708	SENSOR ASM COOL TEMP DDEC III	1
HARNESS, ELECTRONIC DISTRIBUTOR UNIT TO INJECTOR INJECTOR HARNESS ASSY. MAY BE SHOWN IN VALVE MECHANISM TYPE UNDER (1.8050). 8929534 11509511	CLIP BOLT, M8 X 1.25 X 20 MM	1 2
COVER, INJECTOR HARNESS 8929508	COVER	1
HARNESS, ENGINE SENSORS TO DISCONNECT 23513558	HARNESS ENG SENSOR DDEC III	1
TRIP RECORDER ANALYSIS CONTROL SYSTEM R23515448 R23515649 R23515668 R23515669 R23515670 R23515671 R23515672 R23516428 23515448	REMANUFACTURED 23515448 REMANUFACTURED 23515649 PRO DRIVER PETERBILT FLUSH MT PRO DRIVER KENWORTH FLUSH MT PRO DRIVER FREIGHTLINER FLUSH MT PRO DRIVER VOLVO FLUSH MT PRO DRIVER FORD FLUSH MT PRO DRIVER KENWORTH SURFACE MT PRO DRIVER DETROIT DIESEL FLUSH MT	AR AR AR AR AR AR AR AR AR

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PART #	NAME AND DESCRIPTION	QUANTITY
2.1000B - INJECTOR CONTROLS ELECTRONIC		
23515649	PRO DRIVER DETROIT DIESEL SURFACE MT	AR
2.2000 - FUEL PUMP		
PUMP ASSY., FUEL		
SEE ASSEMBLY BREAKDOWN PAGE A1.		
23507409	PUMP ASSY., L.H. (GEAR CASE DRVN)	1
BODY, FUEL PUMP		
23506553	PLUG, STL 1/8-27	1
23511956	KIT, STATOR	AR
23511961	STATOR, FUEL PUMP	1
PIN, ALIGNMENT		
23500694	PIN, ALIGNMENT	2
COVER, FUEL PUMP		
23506551	SCREW	8
23506552	PLUG 3/8-18 PLASTIC F/PUMP BARNES S60	2
23506561	PLUG	1
23511955	KIT, FUEL PUMP COVER	AR
23511957	COVER, FUEL PUMP	1
8923535	PLUG 1/8-27 PLSTC SHPG BARNES F/PMP	2
GASKET, FUEL PUMP COVER		
23506547	GASKET, GOLD	AR
23506548	GASKET, SILVER	AR
23516117	GASKET, BLUE	AR
23516118	GASKET, AMBER	AR
BEARING, FUEL PUMP		
8923526	BEARING, FUEL PUMP	4
SEAL, FUEL PUMP OIL		
23512243	SEAL, OIL SGL LIP	2
GEAR, FUEL PUMP DRIVE		
23511959	GEAR (.275)	2
23511963	KEY, FUEL PUMP DRV. GEAR	1
8923522	RING, GEAR RETAINING	2
GEAR, FUEL PUMP DRIVEN		
8923521	PIN, DRIVEN GEAR	1
8923522	RING, GEAR RETAINING	2
SHAFT, FUEL PUMP DRIVEN		
A SHAFT ASSY. INCLUDES GEAR NOT SOLD SEPARATELY.		
23511960	SHAFT	1
SHAFT, FUEL PUMP DRIVE		
A SHAFT ASSY. INCLUDES ITEMS IN 2.2093.		
23511958	SHAFT, DRIVE	1
VALVE ASSY., FUEL PUMP		
23506560	SPACER, RELIEF VALVE	1
23506563	KIT, RELIEF VALVE (CONTAINS VALVE, SPACER AND PIN	AR
23506564	PIN, SHEAR RELIEF VALVE	1
8923528	VALVE, FUEL PUMP	1
SPRING, FUEL PUMP VALVE RETAINING		
23506557	SPRING, RELIEF VALVE	1
PLUG, FUEL PUMP VALVE		
23506555	CAP, RELIEF VALVE	1
GASKET, FUEL PUMP VALVE PLUG		
23506556	SEAL, RELIEF VALVE	1
HUB, FUEL PUMP DRIVE GEAR		
23511964	COUPLING, FUEL PUMP	1
R23507409	REMANUFACTURED 23507409	AR
8929832	ELBOW, 90 DEG. 3/8 INV FLD TUBE 3/8 PIPE (12.9480)	2
23506222	BOLT, M8 X 1.25 X 20 (12.9001)	3
GASKET, FUEL PUMP TO ENGINE OR DRIVE ASSEMBLY		
5150193	GASKET (FUEL PUMP TO DRIVE ASSY.) (5.1010)	1
COUPLING, FUEL PUMP DRIVE		
8929479	COUPLING	1
DRIVE ASSY., FUEL PUMP		
SEE ASSEMBLY BREAKDOWN PAGE B1.		
8929253	SEAL, RING .139" X 4.609" I.D. (2.2280)	1
8929785	DRIVE ASSY.	1
DRIVE ASSY., FUEL PUMP		
23513205	ELBOW, 90 DEG. 3/8" FL TUBE 3/8" PIPE	1
8924175	ELBOW, 90 DEG. 3/8" STREET (12.9480)	1

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PART #	NAME AND DESCRIPTION	QUANTITY
2.2000 - FUEL PUMP		
COUPLING, FUEL PUMP DRIVE		
8929479	COUPLING	1
DRIVE ASSY., FUEL PUMP		
ASSEMBLIES ARE SHOWN FOR COMPONENT REFERENCE ONLY.		
11504822	BOLT, M8 X 1.25 X 30	5
8929253	SEAL, RING .139" X 4.609" I.D. (2.2280)	1
GEAR, FUEL PUMP DRIVE		
8929786	GEAR, 15.875 MM I.D.	1
9411502	RING, RETAINING (2.7470)	1
ADAPTOR, FUEL PUMP DRIVE		
8929474	ADAPTOR FUEL PUMP BRG SUPT S60	1
HUB, FUEL PUMP DRIVE GEAR		
8929787	HUB, 15.875 MM I.D.	1
11504822	BOLT, M8 X 1.25 X 30	5
2.3000A - FUEL FILTER AND STRAINER		
ELEMENT, FUEL STRAINER		
23518481	FILTER, FUEL PRIMARY	1
COVER, FUEL STRAINER		
5148023	COVER	1
8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)	3
11505299	BOLT, M10 X 1.5 X 30.0 MM	2
FUEL/AIR SEPARATOR		
23515444	PRO-CHEK FUEL/AIR SEPARATOR SIDE MT	AR
23513543	PRO-CHEK FUEL/AIR SEPARATOR REAR MT	AR
23513542	@ INSTALLATION KIT FOR PRO-CHEK SIDE MT	AR
@ INCLUDES HOSES AND HARDWARE NECESSARY TO RETROFIT EXISTING ENGINES.		
ELEMENT, FUEL FILTER		
23518482	FILTER, FUEL SECONDARY	1
COVER, FUEL FILTER		
23517075	VALVE ASSY., FUEL SHUTOFF	1
5148171	COVER	1
23518092	SENSOR ASSY., OIL WATER FUEL & AIR TEMPERATURE	1
11505299	BOLT, M10 X 1.5 X 30.0 MM	2
SEPARATOR, FUEL WATER		
23514047	PROCESSOR ASSY., FUEL PRO 380 12V HEAT	AR
23515125	PROCESSOR ASSY., FUEL PRO 380 NO HEAT	AR
23516638	PROCESSOR ASSY., FUEL PRO 380 24V HEAT	AR
23514049	ELEMENT & GROMMET ASSY. 380 (USE W/23514051 KIT)	AR
23516639	KIT, FUEL PRO 380E NO HEAT W/O DIVERTER CAP (W/MOUNTING HARDWARE)	AR
23516640	KIT, FUEL PRO 380E 12V HEAT W/O DIVERTER CAP (W/MOUNTING HARDWARE)	AR
23516641	KIT, FUEL PRO 380E 24V HEAT W/O DIVERTER CAP (W/MOUNTING HARDWARE)	AR
2.5000A - FUEL LINES AND FUEL COOLER		
HOSE, FUEL PUMP INLET		
MBHH0165	HOSE ASSY., #8 X 16.5"L H&H	1
CLIP, STRAINER TO FUEL PUMP		
2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)	1
HOSE, FUEL PUMP OUTLET TO FILTER		
BAHH0356	HOSE ASSY., #6 X 37.9 H&H	1
HOSE, FILTER TO CYLINDER HEAD		
MAHP0237	HOSE ASSY., #6 X 23.7 H&P	1
23513205	ELBOW, 90 DEG. 3/8" FL TUBE 3/8" PIPE	1
8929725	ELBOW, .80" RESTRICTION, 3/8"PIPE X5/16" (2.5210)	1
CLIP, CYLINDER HEAD INLET		
2236474	CLIP, #10	1
11504986	BOLT, M8 X 1.25 X 14 MM	1

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PART #	NAME AND DESCRIPTION	QUANTITY
2.5000A	- FUEL LINES AND FUEL COOLER	
VALVE, FUEL DRAIN CHECK 23516918	VALVE CHK FUEL 3/8 NPTF MALE	1
SHIELDING, FLEXIBLE HOSE 5101020	STRAP, NYLON (2.5255)	1

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PART #	NAME AND DESCRIPTION	QUANTITY
3.3000C - AIR INTAKE MANIFOLD		
AIR INTAKE MANIFOLD		
23517437	MANIFOLD AIR INT SETBACK 1/2 SC BOSS	1
8922327	PLUG, 1/4" NPTF (12.9550)	2
8923313	PLUG, 3/4" PIPE (12.9550)	1
11509799	BOLT, M10 X 1.5 X 70 MM	2
11509526	BOLT, M10 X 1.5 X 130 MM	4
23505051	BOLT M10 X 1.5 X 170 (12.9001)	1
GASKET, AIR INTAKE MANIFOLD		
23517875	GASKET AIR INT MFD STL RUB CTD S50/60	3
SENSOR, AIR INTAKE		
16070629	SENSOR, DDEC 2 & 3	1
5182977	RING, SEAL (3.3055)	1
11514146	BOLT, M5X.8X30.0 MM	2
3.5000A - TURBOCHARGER		
TURBOCHARGER		
23516431	TURB TMF55 1.34A/R SCROLL DWN HIMT12L	1
8929169	WASHER (12.9190)	4
11506101	NUT, M10 X 1.5	4
GASKET, TURBOCHARGER EXHAUST INLET CONNECTION		
23514035	SPACER-PLATE TURBO DINA S50	1
8929529	GASKET	2
TUBE, TURBOCHARGER OIL SUPPLY		
23515895	TUBE OIL SUPPLY SCROLL DOWN TURBO S60	1
8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)	2
CLIP, TURBOCHARGER OIL SUPPLY TUBE		
5145994	CLIP, 3/8" TUBE X 1/2" BOLT	1
11509511	BOLT, M8 X 1.25 X 20 MM	1
11507036	NUT, M8 X 1.25	1
TUBE, TURBOCHARGER OIL RETURN		
23515354	TUBE TURB OIL DRN FLEX SST MED MT	1
23505039	ELBOW, 90 DEG FLD 3/4 TUBE	1
11509511	BOLT, M8 X 1.25 X 20 MM	2
GASKET, TURBOCHARGER OIL RETURN TUBE		
8929285	GASKET (3.5505)	1
CLIP, TURBOCHARGER OIL RETURN TUBE		
2476233	CLIP, .750" DIA., 3/8" BOLT	1
5144629	BRACKET, CLIP 90 DEG.	1
11509511	BOLT, M8 X 1.25 X 20 MM	1
11507036	NUT, M8 X 1.25	1

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PART #	NAME AND DESCRIPTION	QUANTITY
4.1000A - OIL PUMP		
PUMP ASSY., OIL		
A PUMP ASSY. INCLUDES ITEMS IN 4.1040, 4.1065, 4.1075, 4.1090 AND 4.1220.		
R23505886	REMANUFACTURED 23505886	AR
23505886	PUMP ASSY., RT. SIDE ENGINE	1
23505885	DOWEL, SLEEVE OIL PUMP	1
8929011	PIN, 25L., DOWEL	1
11502826	BOLT, M10 X 1.5 X 40.0	2
8929393	BOLT, M10 X 1.5 X 70.0 (12.9001)	2
OVERHAUL KIT, OIL PUMP		
AN OVERHAUL KIT INCLUDES ITEMS IN 4.1065, 4.1075, 4.1520, 4.1590 AND 4.1730		
23511065	OVERHAUL KIT, RT SIDE ENGINE	1
SHIM, OIL PUMP		
23508740	SHIM (.0055" THK.)	AR
BODY, OIL PUMP		
BODY ASSY. INCLUDES BUSHINGS IN 4.1050.		
23505878	BODY ASSY., RT. SIDE ENGINE	1
BUSHING, OIL PUMP BODY		
23505879	BUSHING, SHAFT & DRIVE GEAR	2
SHAFT AND GEAR ASSY., OIL PUMP DRIVE		
23505882	SHAFT & GEAR ASSY., OIL PUMP	1
SHAFT AND GEAR ASSY., OIL PUMP DRIVEN		
23507337	SHAFT & GEAR ASSY., OIL PUMP	1
GEAR, OIL PUMP DRIVE		
23505884	GEAR, 69 TEETH	1
COVER, OIL PUMP		
A COVER ASSY. INCLUDES BUSHINGS IN 4.1220		
23505883	COVER ASSY, OIL PUMP	1
23505879	BUSHING, SHAFT & DRIVE GEAR	2
11509511	BOLT, M8 X 1.25 X 20 MM	2
11509514	BOLT, M8 X 1.25 X 50 MM	2
4.1000B - OIL DISTRIBUTION SYSTEM		
PIPE, OIL PUMP INLET		
23506683	TUBE & SCREEN ASSY, OIL PUMP	1
11509514	BOLT, M8 X 1.25 X 50 MM	2
GASKET, OIL PUMP INLET PIPE		
23505992	GASKET, OIL INLET TUBE TO PUMP	1
BRACKET, OIL PUMP SCREEN SUPPORT		
8929104	BRACKET	2
11505299	BOLT, M10 X 1.5 X 30.0 MM	4
11502812	NUT, M10X1.5	2
PIPE, OIL PUMP OUTLET		
23505890	TUBE, OIL PUMP OUTLET	1
23514767 NS	ELBOW ASM OIL INL & PRESS RLF VLV S60	1
PIPE, OIL PUMP OUTLET		
457008	PIN, 3/16" X 1-1/2" SPRING (12.9270)	1
SPRING, OIL PUMP OUTLET PIPE BYPASS VALVE		
5126327	SPRING (2.96" FREE LENGTH, 15 COILS, CLOSED ENDS,	1
VALVE, OIL PUMP OUTLET PIPE BYPASS		
8922740	VALVE	1
5117957	SEAT	1
23505891	RING SEAL, OIL PUMP OUTLET	1
23505892	RING SEAL, OIL PUMP INLET	1
11504822	BOLT, M8 X 1.25 X 30	2
GASKET, OIL PUMP OUTLET PIPE		
8929347	GASKET (TO BLOCK)	1

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PART #	NAME AND DESCRIPTION	QUANTITY
4.1000C - OIL PRESSURE REGULATOR		
REGULATOR, OIL PRESSURE		
A PUMP KIT INCLUDES PUMP ASSY. AND SEAL RING.		
23512901	REGULATOR ASSY.	1
BODY, OIL PRESSURE REGULATOR AND RELIEF		
457008	PIN, 3/16" X 1-1/2" SPRING (12.9270)	1
8929283	BODY, REGULATOR	1
SPRING, OIL PRESSURE REGULATOR		
5126327	SPRING (2.96" FREE LENGTH, 15 COILS, CLOSED ENDS,	1
VALVE, OIL PRESSURE REGULATOR		
8922740	VALVE	1
SEAT, OIL PRESSURE REGULATOR		
23512900	SEAT	1
11504822	BOLT, M8 X 1.25 X 30	2
RELIEF, VALVE OIL PRESSURE		
A PUMP KIT INCLUDES PUMP ASSY. AND SEAL RING.		
8921086	VALVE ASSY.	1
BODY, OIL PRESSURE REGULATOR AND RELIEF		
457008	PIN, 3/16" X 1-1/2" SPRING (12.9270)	1
8921084	BODY, RELIEF	1
SPRING, OIL PRESSURE REGULATOR		
5126327	SPRING (2.96" FREE LENGTH, 15 COILS, CLOSED ENDS,	1
VALVE, OIL PRESSURE REGULATOR		
8922740	VALVE	1
SEAT, OIL PRESSURE REGULATOR		
5117957	SEAT	1
11504822	BOLT, M8 X 1.25 X 30	2
4.2000A - OIL FILTER		
ELEMENT, OIL FILTER		
23518480	FILTER, LUBE OIL	2
ADAPTOR, OIL FILTER COVER		
8923847	PLUG, PIPE 1/4-18" NPTF	1
4.4000A - OIL COOLER		
CORE, OIL COOLER ENGINE		
52474367	CORE ASM ENG OIL CLR 10 PLT S60	1
HOUSING, OIL COOLER-ENGINE		
23518638	HOUSING ASM OIL CLR 10 PLT 12L S60	1
HOUSING, OIL COOLER-ENGINE		
8922327	PLUG, 1/4" NPTF (12.9550)	1
23511573	PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP	4
23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP	1
23511573	PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP	1
23516104	PLUG PIPE 1/4-18 HEX HD STL CTD RED	1
HOUSING, OIL TRANSFER COOLER-FILTER ADAPTOR		
23508392	RING, SEAL	1
GASKET, OIL COOLER HOUSING		
8929289	RING, SEAL	1
ADAPTOR, OIL COOLER		
AN ADAPTOR ASSY. INCLUDES 4-PLUGS IN 4.4110 PLUS ITEMS IN 4.4140 AND 4.4150		
23518640	NS # ADAPTOR ASM OIL CLR/FLTR 10PLT 12LS60	1
CORE, OIL COOLER ENGINE		
52474367	CORE ASM ENG OIL CLR 10 PLT S60	1
GASKET, OIL COOLER CORE INNER		
23506247	GASKET, OIL COOLER HOUSING	1
HOUSING, OIL COOLER-ENGINE		
23507182	BOLT, SPL M8 X 1.25 X 73.0	3
23518638	HOUSING ASM OIL CLR 10 PLT 12L S60	1
23507183	BOLT, SPL M8 X 1.23 X 93.0	7
ADAPTOR, OIL COOLER		
23518637	ADAPTOR ASM O/CLR 10 PLT PF2100 FLTRS	1
23508392	RING, SEAL	2

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PART #	NAME AND DESCRIPTION	QUANTITY
4.4000A - OIL COOLER		
23505062	BOLT, M10 X 1.5 X 40 (12.9001)	4
# NOT SERVICED, USE COMPONENTS.		
GASKET, ADAPTOR TO OIL COOLER HOUSING		
23505902	RING, SEAL BYPASS FILTER	1
4.6000A - DIPSTICK		
DIPSTICK		
23517836	GAUGE ASM OIL LVL SNAP LK 16.33LG S60	1
GUIDE, DIPSTICK		
23513683	GUIDE	1
ADAPTOR, DIPSTICK		
23514328	TUBE ASM 8.70 LG	1
ADAPTOR, DIPSTICK		
137401	NUT, 1/2" INV. TUBE	1
23513842	SEAL OIL LVL GA ADAP	1
4.7000A - OIL PAN		
PAN, OIL		
OIL PAN ASSYS. INCLUDE PLUGS, INSERTS, SEAL RINGS, AND NUTS IN 4.7001		
23517242	ISOLATOR OIL PAN S50/S60	10
23517243	SPACER OIL PAN S50/S60	10
23521173	PAN ASSY., OIL SMC VINYL ESTER	1
PAN, OIL		
23520929	SEAL RING	3
23520931	NUT	3
23521330	KIT INSERT OIL PAN	1
8923313	PLUG, 3/4" PIPE (12.9550)	3
11504571	BOLT, M10 X 1.5 X 65.0MM	10
GASKET, OIL PAN TO BLOCK		
8929102	GASKET	1
PLUG, OIL PAN DRAIN		
5178994	PLUG, 3/4"-14 NPTF PIPE (4.7080)	1
4.8000A - VENTILATING SYSTEM		
PLUG, BREATHER HOLE		
23515484	CAPLUG	1
FILTER UNIT, BREATHER		
5101760	ELEMENT (ROUND)	1
RETAINER, BREATHER PAD		
8929257	RETAINER, ELEMENT	1
4.8000A - VENTILATING SYSTEM		
PIPE ASSY, BREATHER		
23517013	TUBE BTHR DRAFT (RKR CVR) 1344.0 LG	1
23518315	HOSE 90 DEG 1.0ID 1.80 X 1.0R	1
CLAMP, BREATHER TUBE		
5186840	CLAMP, 1 1/2" I.D. (12.9660)	2
CLIP, BREATHER TUBE		
11506101	NUT, M10 X 1.5	1
23505062	BOLT, M10 X 1.5 X 40 (12.9001)	1
23519756	BRACKET	1
5180425	SPACER, 13/32"X23/32"	1
23506443	CLIP, #16 HOSE 1" DIA. (4.8183)	2
11504986	BOLT, M8 X 1.25 X 14 MM	1
11507036	NUT, M8 X 1.25	1

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PART #	NAME AND DESCRIPTION	QUANTITY
5.1000	- FRESH WATER PUMP	
PUMP ASSY., FRESH WATER		
A PUMP KIT INCLUDES PUMP ASSY. AND SEAL RING.		
123518216	PUMP KIT, 360 DEG BEAD HSG HIGH CAPACITY IMPELLER	1
23518215 NS	PUMP ASM WAT RR GRCASE SQCUT O-RG S60	1
BODY, FRESH WATER PUMP		
23511573	PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP	2
23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP	1
23517027	BODY WAT PMP RRGCASE SQCUT O-RG S60	1
8929594	PLUG, 3/8"-18 DIA. PIPE EXT. HEX. SOC.	1
COVER, FRESH WATER PUMP BODY		
8922383	COVER, NON-METALLIC	1
GASKET, FRESH WATER PUMP COVER		
23512048	SEAL RING	1
8922407	RING RETAINER	1
SHAFT ASSY., FRESH WATER PUMP		
23505896	SHAFT	1
BEARING, FRESH WATER PUMP		
8929422	BEARING ASSY.	1
RETAINER, FRESH WATER PUMP BEARING AND SEAL		
8929427	RING	1
IMPELLER, FRESH WATER PUMP		
23517973	IMPELLER W/PMP C/I 6 VANE S60	1
SEAL, FRESH WATER PUMP		
23518316	SEAL WAT PUMP UNITIZED S60 W/SEALANT	1
8929134	SEAL, LIP TYPE	1
GEAR, FRESH WATER PUMP DRIVE		
23505897	WASHER, SPL WAT PUMP GEAR (5.1110)	1
23505910	GEAR, RH 61 TEETH	1
23508863	BOLT, M12X1.75X50.0MM	1
23505025	SEAL RING W/SQ CUT (5.1032)	1
11509523	BOLT, M10 X 1.5 X 55 MM	1
23505755	BOLT, M10 X 1.5 X 155.0	2
RECONDITIONING KIT, FRESH WATER PUMP		
A RECONDITIONING KIT INCLUDES SEAL RING IN 5.1001, BEARING IN 5.1070 LOCKRI		
NG IN 5.1071 AND ITEMS IN 5.1130 AND 5.1236.		
23509105	KIT, RECONDITIONING W/SQ CUT WAT PMP & CVR SEALS	AR
5.2000B	- THERMOSTAT	
THERMOSTAT ASSY.		
8929878	THERMOSTAT ASSY. 190 DEG. OPENING TEMP.	2
SEAL, THERMOSTAT		
5132155	SEAL	2
23509514	SEAL FLANGE	AR
COVER, THERMOSTAT HOUSING		
8929728	COVER	1
23511572	PLUG, 1/2" NPTF SQ. SOC. (12.9550)	2
23511573	PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP	2
5136240	PLUG CAP .42" DIA. (2.2001)	1
8924140	DRAINCOCK, 1/4" (12.9510)	1
23505050	BOLT, M10 X 1.5 X 85 (12.9001)	4
5.2000C	- WATER BYPASS TUBE	
TUBE, WATER BYPASS		
23505898	TUBE	1
HOSE, WATER BYPASS TUBE		
8929875	HOSE, 1 3/4" X 3.25"	2
CLIP, WATER BYPASS TUBE		
23505048	CLAMP, 2"-2 1/2" DIA. HOSE	4
5.3000B	- WATER CONNECTIONS	
TUBE, WATER PUMP TO OIL COOLER		
23505899	TUBE (FOR HI & MED MT. TURBO)	1

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PART #	NAME AND DESCRIPTION	QUANTITY
5.3000B - WATER CONNECTIONS		
HOSE, WATER PUMP TO OIL COOLER 23506325	HOSE, 2.75"X3.0" L (BLUE)	2
CLIP, WATER PUMP TO OIL COOLER TUBE 8929865	CLAMP, 3"-3 1/2" ID HOSE	4
5.4000A - FAN		
BLADE, FAN HIGH LOW AND CRANKSHAFT MOUNTED NPN	(CUSTOMER FURNISHED) BLADE	1
PULLEY AND HUB ASSY., FAN 8929169	WASHER (12.9190)	6
8929218	PULLEY, FAN 3 GROOVE 203.0, 1 GROOVE 254.0	1
8929585	BOLT, M10 X 1.5 X 380.0 (12.9001)	1
9409036	BOLT, 3/8"-24 X 1.125" (12.9001)	6
SUPPORT, FAN MOUNTING 23511356	SUPPORT, W/UPR RT BOLT BOSS	1
11504822	BOLT, M8 X 1.25 X 30	5
11509525	BOLT, M10 X 1.5 X 110 MM	2
11509531	BOLT, M14 X 2.0 X 60 MM	1
11509533	BOLT, M14 X 2.0 X 100 MM	1
11513960	BOLT, M10 X 1.5 X 145 MM	1
SPINDLE ASSY., FAN DRIVE A SPINDLE ASSY. INCLUDES ITEMS IN 5.4102, 5.4103, 5.4111 AND 5.4160.		
8929538	SPINDLE ASSY.	1
455322	FITTING, 1/8" VENT (12.9540)	1
271283	FITTING, 45 DEG.-1/8" GREASE (12.9540)	1
455734	PIN, SPRING 1/8" X 3/4" (12.9300)	1
11500944	BOLT, M12X1.75X40.0 MM	4
5131978	WASHER, .53 X 1.00 (1.5001)	4
8929214	WASHER	1
HOUSING, FAN DRIVE SPINDLE 8929215	PLATE	1
8920419	BOLT, M10X1.5"X45.0" SPECIAL (1.2070)	1
BEARING, FAN SPINDLE 7451005	BEARING, ROLLER (12.4048)	1
23506569	BEARING, BALL (OPTIONAL TO 8929530)	1
8929064	RING, INT RETAINING 3.121" O.D. (12.4048)	1
23518178	BRG BALL ALT DRIV HEAT STABILIZED S60	1
8929063	RING, INT RETAINING 3.734" O.D. (12.4048)	1
8929216	RING, INT RETAINING 1.618" O.D. (5.4111)	1
SEAL, FAN SPINDLE 8929213	SEAL	1

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PART #	NAME AND DESCRIPTION	QUANTITY
6.1000A - EXHAUST MANIFOLD AND/OR CONNECTIONS		
MANIFOLD, EXHAUST		
23511221	MANIFOLD, 3 PC END FRONT HIGH MOUNT	1
23511222	MANIFOLD, 3 PC FRT & REAR END	1
23511978	MANIFOLD, 3 PC CENTER SECTION HIGH MOUNT	1
GASKET, EXHAUST MANIFOLD		
23511666	GASKET, 2 PORT (GRAPHITE)	3
STUD, EXHAUST MANIFOLD TO TURBOCHARGER		
23517241	STUD SPL M10X1.5X58.5 EXH MAN S50G	4
BOLT, EXHAUST MANIFOLD TO HEAD		
8929357	BOLT, M10 X 1.5 X 120 (12.9001)	7
23511667	SPACER	12
HEAT SHIELD, EXHAUST MANIFOLD		
23520972	HEAT SHIELD EXH MANIF FRT	1
23519124	SHIELD HEAT EXH MANIFOLD RR	1
23509744	STUD, BOLT M10X1.5X120.0	5
11506101	NUT, M10 X 1.5	5

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PART #	NAME AND DESCRIPTION	QUANTITY
7.3000A - STARTING MOTOR		
MOTOR ASSY., STARTING		
RO461128	MOTOR ASSY., 24V 42MT (REMANUFACTURED)	AR
10478980	MOTOR ASSY. (24V. CW. INSUL. 42MT)	1
9439720	BOLT, 5/8"-11X2 1/4" (12PT.) (12.9005)	3
103325	LOCKWASHER, 5/8"	3

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PART #	NAME AND DESCRIPTION	QUANTITY
11.1000A - ENGINE MOUNTING BASE		
SUPPORT, ENGINE FRONT		
8929744	SUPPORT (WEST COAST) ITEM 1	1
11509528	BOLT, M12 X 1.75 X 30 MM	8
8929068	BOLT, M14 X 2.0 X 140 (12.9001)	4

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ENGINE DESCRIPTION

SERIAL NUMBER: 06R0674700

SERIES NUMBER: 60

MODEL NUMBER: 6063MK35

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PART #	NAME AND DESCRIPTION	QUANTITY
1.1000	- CYLINDER BLOCK	
1.1001	BLOCK, CYLINDER	
FOR COMPONENTS OF CYLINDER BLOCK ASSEMBLY REFER TO ASSEMBLY BREAKDOWN PAGE A1		
23522981	BLK ASSY CYL TLC W/PSTN CLG CVRS (14MM FLYWHEEL HOUSING BOLT HOLES)	1
1.1001	BLOCK, CYLINDER	
5139988	PLUG, CUP 1" DIA. STNLS.	2
5139991	PLUG, 1-1/2" CUP (1.1001)	5
5151272	PLUG, 11/32" SPECIAL (1.8160)	1
8922327	PLUG, 1/4" NPTF (12.9550)	2
8923916	PLUG, 1/2" PIPE (12.9550)	2
8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)	3
8929594	PLUG, 3/8"-18 DIA. PIPE EXT. HEX. SOC.	1
8929015	DOWEL PIN, 16 MM., CIRCULAR (1.1001)	1
8929022	DOWEL PIN 16 MM., DIAMOND (1.1001)	2
8929152	PIN, DOWEL 20.0 MM CIRCULAR	1
8929153	PIN, DOWEL 20.0 MM DIAMOND	1
8929432	PLUG, WEEP HOLE (SPECIAL)	6
8929276	CAP, MAIN BEARING (UNSLOTTED)	7
8929124	BOLT, M20 X 178.0	14
8929125	WASHER, SPECIAL	14
1.1025	NOZZLE, PISTON COOLING	
23522437	COVER PSTN CLG NOZZLE HOLE	6
23506222	BOLT, M8 X 1.25 X 20 12 PT.	6
23516104	PLUG PIPE 1/4-18 HEX HD STL CTD RED	1
8922327	PLUG, 1/4" NPTF (12.9550)	4
8929432	PLUG, WEEP HOLE (SPECIAL)	6
23509239	STUD. M12X1.75X34.0	1
8929015	DOWEL PIN, 16 MM., CIRCULAR (1.1001)	1
8929022	DOWEL PIN 16 MM., DIAMOND (1.1001)	2
8929152	PIN, DOWEL 20.0 MM CIRCULAR	1
8929153	PIN, DOWEL 20.0 MM DIAMOND	1
23506222	BOLT, M8 X 1.25 X 20 12 PT.	6
23528493	NOZZLE ASSY., PISTON COOLING ARTICULATED	6
1.1002	GASKET KIT, ENGINE OVERHAUL	
A GASKET KIT CONSISTS OF THE NECESSARY GASKETS FOR ONE COMPLETE ENGINE OVERHAUL.		
23512691	GASKET KIT W/SQUARE RING SEALS	AR
1.2000	- CYLINDER HEAD	
1.2001	HEAD ASSY., CYLINDER	
FOR COMPONENTS OF CYLINDER HEAD ASSEMBLIES REFER TO ASSEMBLY BREAKDOWN PAGE A1.		
23529921	HEAD ASSY., CYL 4VLV STD RECESS EXH INSERT RTRK	1
1.2001	HEAD ASSY., CYLINDER	
23511573	PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP	1
23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP	1
23513197	PLUG, 3/8"-18 PIPE SQ SOC COATED	2
5109157	PLUG, 1-1/4" CUP (5.5001)	11
5139991	PLUG, 1-1/2" CUP (1.1001)	2
8923847	PLUG, PIPE 1/4-18" NPTF	1
8923916	PLUG, 1/2" PIPE (12.9550)	2
8926993	PLUG, FUSE (1/4"-18 RECESSED SOC. HD.)	1
8929126	INSERT, (EXHAUST) (STD) (6.261MM-6.363MM)	12
8929127	INSERT, (INTAKE) (STD) (7.155MM-7.257MM)	12
8929625	INSERT, (INTAKE) (.010" U.S.) (6.901MM-7.003MM)	AR
8929626	INSERT, (INTAKE) (.020" U.S.) (6.647MM-6.749MM)	AR
8929627	INSERT, (INTAKE) (.030" U.S.) (6.393MM-6.495MM)	AR
8929628	INSERT, (EXHAUST) (.010" U.S.) (6.007MM-6.109MM)	AR
8929629	INSERT, (EXHAUST) (.020" U.S.) (5.753MM-5.855MM)	AR
8929630	INSERT, (EXHAUST) (.030" U.S.) (5.499MM-5.601MM)	AR
23518571	GUIDE	24
23522649	CAP, #1 CAMSHAFT BEARING FRT RACE TRACK SEAL	1
8929739	CAP, CAMSHAFT BEARING, REAR (IDENTIFICATION-NO. 7)	1
8929870	CAP, CAMSHAFT BEARING, INTERMEDIATE (1.7042)	4
8929871	CAP, CAMSHAFT BEARING, CENTER (IDENTIFICATION-NO.)	1
5138638	DOWEL, .626"X.37" HOLLOW (4.1040)	7

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PART #	NAME AND DESCRIPTION	QUANTITY
1.2000	- CYLINDER HEAD	
8929843	DOWEL, CAMSHAFT DRIVE (1.7004)	3
8929129	BOLT, M12 X 1.75 X 65	7
1.2045	TUBE, INJECTOR HOLE	
23501580	TUBE KIT (INCLUDES SEAL RING IN 1.2046)	6
1.2046	RING, INJECTOR HOLE TUBE SEAL	
23515470	SEAL RING INJ TUBE GREEN FLUOROCARBON	6
8929123	BOLT, M16 X 2 X 175 (12.9005)	38
8929328	WASHER, 16.8" X 25.8" (12.9190)	38
1.2002	GASKET KIT, CYLINDER HEAD OVERHAUL	
	GASKET KIT CONSISTS OF ALL GASKETS NECESSARY TO REPLACE ONE CYLINDER HEAD.	
23526274	KIT, GASKET CYL HD RACE TRACK	AR
1.2010	GASKET, CYLINDER HEAD COMPRESSION	
23522588	GASKET, CYLINDER HEAD	1
1.2000A	- ENGINE, LIFTER BRACKET	
1.2070	BRACKET, ENGINE LIFTER-FRONT	
8929754	BRACKET (ITEM 1)	1
11509530	BOLT, M14 X 2.0 X 40 MM	2
1.2080	BRACKET, ENGINE LIFTER - REAR	
8929408	BRACKET (ITEM 2)	1
23518652	BRACKET ENG LFTR RR LB HD PLATED S60	1
11509528	BOLT, M12 X 1.75 X 30 MM	5
1.3000	- CRANKSHAFT, OIL SEALS AND STABILIZERS	
1.3001	CRANKSHAFT ASSY.	
	NEW CRANKSHAFTS FOR WIDER CONN ROD BEARINGS AND CONN ROD ASSYS. MUST BE USE	
	D TOGETHER TO ENSURE INTERCHANGEABILITY.	
23527965	CRANKSHAFT 160 STROKE 6 HOLE 12 L	1
1.3090	SHELL, CRANKSHAFT MAIN BEARING	
	A SHELL SET CONSISTS OF ONE UPPER AND ONE LOWER BEARING SHELL.	
	... SOME UNITS MAY REQUIRE A LOWER MAIN THRUST KIT. REFER TO YOUR CYLINDER B	
	LOCK TYPE IN 1.1035 IF REQUIRED.	
8929670	SHELL SET, STANDARD (MAIN)	6
8929671	SHELL SET, .254MM UNDER SIZE (MAIN)	AR
8929672	SHELL SET, .508MM UNDER SIZE (MAIN)	AR
8929673	SHELL SET, .762MM UNDER SIZE (MAIN)	AR
8929680	SHELL SET, STANDARD (THRUST)	1
8929681	SHELL SET, .254MM UNDER SIZE (THRUST)	AR
8929682	SHELL SET, .508MM UNDER SIZE (THRUST)	AR
8929683	SHELL SET, .762MM UNDER SIZE (THRUST)	AR
1.3100	WASHER, CRANKSHAFT MAIN BEARING THRUST	
8929085	WASHER, (UPPER THRUST ONLY)	2
8929697	WASHER, .127MM O.S.	AR
8929698	WASHER, .254MM O.S.	AR
1.3110	CAP. CRANKSHAFT MAIN BEARING	
8929276	CAP, MAIN BEARING (UNSLOTTED)	7
1.3140	BOLT, CRANKSHAFT MAIN BEARING CAP	
8929124	BOLT, M20 X 178.0	14
8929125	WASHER, SPECIAL	14
1.3145	GEAR, CRANKSHAFT TIMING	
23513537	WHEEL, TIMING RING (2.3145)	1
8929497	GEAR, RH, 82T, 133.6MM I.D. 12.7L	1
8929808	KEY, .25"X1.375" (12.9350)	1
1.3000A	- CRANKSHAFT FRONT COVER	
1.3156	HOUSING ASSY., GEAR CASE	
23505875	HOUSING ASSY., REAR MOUNT WATER PUMP	1
	(INCLUDES 8929333 BOLTS & DOWEL PINS IN 1.3156)	

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PART #	NAME AND DESCRIPTION	QUANTITY
1.3000A - CRANKSHAFT FRONT COVER		
8929760	SUPPORT (1.3160)	1
8929015	DOWEL PIN, 16 MM., CIRCULAR (1.1001)	1
8929022	DOWEL PIN 16 MM., DIAMOND (1.1001)	1
8929740	SEAL, RING .134X.074X.480 I.D.)	1
23505062	BOLT, M10 X 1.5 X 40	9
11503454	BOLT, M10 X 1.5 X 20.0	2
11505299	BOLT, M10 X 1.5 X 30.0 MM	4
11513811	BOLT, M12 X 1.75 X 20 MM	1
181333	BOLT, 5/16"-24 X .625"	1
8929333	BOLT, M12 X 1.75 X 65 (SPECIAL)	3
5155596	WASHER, 21/64" SPECIAL COPPER (4.7120)	1
5180370	WASHER, .55" I.D. COPPER (7.4969)	1
1.3158 COVER, GEAR CASE		
23505876	COVER, FRONT	1
11504986	BOLT, M8 X 1.25 X 14 MM	2
5141452	SEAL, RING (3.4143)	1
8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)	1
11509523	BOLT, M10 X 1.5 X 55 MM	14
11509525	BOLT, M10 X 1.5 X 110 MM	4
23507422	GUARD, BOLT V18 DMPR & FRT CVR	1
1.3166 SEAL, CRANKSHAFT OIL FRONT		
23518355	SEAL/SLEEVE ASSY., FRONT CRANKSHAFT UNITIZED	1
1.3191 COVER, ENGINE FRONT ACCESSORY DRIVE		
23517382	COVER, ACSRY REAR 6 HOLE	1
8929099	COVER, FRONT ACCESSORY	2
11504822	BOLT, M8 X 1.25 X 30	11
1.3192 GASKET, ENGINE FRONT ACCESSORY DRIVE		
8929299	GASKET, ACCESSORY FRONT	2
8929130	GASKET, UPPER RIGHT REAR & FRONT CAM ACCESS.	1
1.3000B - VIBRATION DAMPER		
1.3210 DAMPER, VIBRATION		
8929502	DAMPER, 11L & 12.7L	1
1.3275 SPACER, VIBRATION DAMPER		
8929527	* SPACER	1
5133981	WASHER, 19/32" (1.1001)	6
8929222	BOLT, 9/16"-18 X 2 1/2"	6
* USE SPACER WHEN CRANKSHAFT PULLEY IS NOT REQUIRED.		
1.3000C - CRANKSHAFT PULLEY		
1.3280 PULLEY, CRANKSHAFT		
8929077	PULLEY, 188.0MM O.D., 4 GROOVE (ITEM 3)	1
8929222	BOLT, 9/16"-18 X 2 1/2"	6
5133981	WASHER, 19/32" (1.1001)	6
1.4000A - FLYWHEEL		
1.4001 FLYWHEEL ASSY.		
INCLUDES GEAR IN 1.4010. "C" INDICATES A CHAMFERED ASSY.		
23514751	FLYWHEEL ASSY, SAE1 TYPE 1, GMHD & 1.76	1
5100532	PLATE, SCUFF 12-.57" HOLES (3"ID CENTER)	1
9410925	BOLT, 9/16"-18 X 2 1/4" (12.9001)	12
1.4010 GEAR, FLYWHEEL RING		
5184773	GEAR, SAE #1, 118 TEETH, UNCHAMFERED	1
1.5000A - FLYWHEEL HOUSING		
1.5001 HOUSING ASSY., FLYWHEEL		
23522643	HOUSING ASSY., FLYWHEEL #1 AL 14MM BOLT HOLES	1
1.5001 HOUSING ASSY., FLYWHEEL		
23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP	1

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1.5000A - FLYWHEEL HOUSING		
23514442	PIPE PLUG 1 1/4 7/8 TPR SQ SOCHD	1
5106899	PLUG, 3/4"-16	1
23522327	BOLT M14 2.00 X 50.0 LG HEX HD	8
23522329	BOLT M14 2.00 X 95.0 LG HEX HD	4
23522326	WASHER	12
1.5004 SEAL, CRANKSHAFT OIL		
23519651	SEAL, REAR CR/SHF	1
1.6000 - CONNECTING ROD AND PISTON		
1.6001 CONNECTING ROD ASSY.		
QUANTITIES SHOWN ARE PER CYLINDER. A CROSSHEAD ROD ASSY. INCLUDES A CAP. WHICH IS NOT SOLD SEPARATELY, AND ONLY THOSE ITEMS IN 1.6001.		
NEW CRANKSHAFTS FOR WIDER CONN ROD BEARINGS AND CONN ROD ASSYS. MUST BE USED TOGETHER TO ENSURE INTERCHANGEABILITY.		
23526078	ROD ASSY., CONN DRILLED STL PSTN LEAD FREE	1
8929355	BOLT, MJ14 X 1.5 X 108	2
8929019	NUT, MJ14X1.5	2
1.6100 SHELL, CONNECTING ROD BEARING		
A SHELL SET CONSISTS OF ONE (1) UPPER AND ONE (1) LOWER BEARING SHELL. NEW CRANKSHAFTS FOR WIDER CONN ROD BEARINGS AND CONN ROD ASSYS. MUST BE USED TOGETHER TO ENSURE INTERCHANGEABILITY.		
23526142	SHELL SET, STD CONN ROD DRILLED UPR/LWR 12.7L	1
1.6110 PISTON KIT		
A PISTON KIT INCLUDES PISTON ASSY., 3 PC. BUSHING, SKIRT AND PIN IN 1.6140. QUANTITIES SHOWN ARE PER CYLINDER.		
23529167	KIT, DOME & SKIRT ASSY. 1.1MM CUTBACK JTL STL PART	1
1.6115 RING SET, PISTON		
RING SET CONSISTS OF SUFFICIENT RINGS FOR ONE (1) PISTON.		
23503747	RING SET, W/KEYSTONE COMPRESSION RINGS (2.5MM TOP)	1
1.6120 RING, PISTON COMPRESSION		
8929844	RING, TOP (2.5 MM KEYSTONE)	1
8929845	RING, BOTTOM (KEYSTONE)	1
1.6130 RING, PISTON OIL CONTROL		
23515500	RING PSTN OIL CONT CR/HD	1
23529379	EXPANDER, SPR PSTN OIL CONT RING	1
1.6140 PIN, PISTON		
23521649	PIN, PISTON STL ARTICULATED	1
1.6150 RETAINER, PISTON PIN		
23521781	RETAINER, STEEL PISTON PIN	2
1.6181 KIT, CYLINDER LINER AND SEALS		
KIT INCLUDES NOT SERVICED SEPARATELY LINER AND SEALS IN 1.6190		
23523948	KIT, LINER TOP COOLING & SEALS	1
1.6182 CYLINDER KIT		
A KIT INCLUDES ITEMS IN 1.6110, 1.6115, 1.6140 AND 1.6181.		
23529171	KIT, CYLINDER ARTICULATED CUTBACK STL 1.1MM	1
1.6190 SEAL, CYLINDER LINER		
8929013	SEAL, CREVICE	1
1.7000 - CAMSHAFT AND GEAR TRAIN		
1.7001 CAMSHAFT ASSY.		
A CAMSHAFT ASSY. INCLUDES DOWEL IN 1.7001.		
23528606	CAMSHAFT ASSY., 12L USES 20MM CAM HUB BOLT	1
8920172	DOWEL, CAMSHAFT (1.7200)	1
1.7037 COVER, CAMSHAFT BEARING CAP		
23514716	COVER RR CAMSHF S60	1

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1.7000	- CAMSHAFT AND GEAR TRAIN	
11509511	BOLT, M8 X 1.25 X 20 MM	3
1.7040	BEARING, CAMSHAFT	
	A BEARING SET CONSISTS OF ONE UPPER AND ONE LOWER BEARING SHELL.	
8929690	BEARING SET (STD.)	7
8929691	BEARING SET, .254 MM O.S.	AR
8929692	BEARING SET, .508 MM O.S.	AR
8929693	BEARING SET, .762 MM O.S.	AR
1.7042	CAP, CAMSHAFT BEARING	
23522975	SEAL, RACETRACK FRT CAMSHAFT CAP	1
23522649	CAP, #1 CAMSHAFT BEARING FRT RACE TRACK SEAL (USED WITH 23522975 RACE TRACK SEAL)	1
8929870	CAP, CAMSHAFT BEARING, INTERMEDIATE (1.7042)	4
8929871	CAP, CAMSHAFT BEARING, CENTER (IDENTIFICATION-NO.)	1
8929739	CAP, CAMSHAFT BEARING, REAR (IDENTIFICATION-NO. 7)	1
8929740	SEAL, RING .134X.074X.480 I.D.	1
5138638	* DOWEL, .626"X.37" HOLLOW (4.1040)	7
* FIG. 1 OF 1.2000.		
1.7046	BOLT, CAMSHAFT BEARING CAP	
8929129	BOLT, M12 X 1.75 X 65	7
1.7070	PLATE, CAM AND BALANCE SHAFT THRUST	
23521892	PLATE, CAM THRUST 3 BOLT	1
11504822	BOLT, M8 X 1.25 X 30	3
1.7075	SEAL, CAMSHAFT THRUST PLATE	
23521894	SEAL, CAM THRUST PLATE TO CYL HD 3 BOLT	1
8929318	SEAL (GEAR HOUSING)	1
1.7200	GEAR, CAMSHAFT AND BALANCE SHAFT	
23521895	GEAR ASSY., CAMSHFT DRIVE 3-BLT TRSTPLT NITR	1
8929379	GEAR 111T	1
1.7206	HUB, CAMSHAFT GEAR	
8929810	KEY, NON ROCK (12.9350)	1
23524883	HUB CAM DRV GEAR	1
23524882	BOLT, M20 X 1.50 X 100.0	1
1.7220	GEAR ASSY., IDLER	
	A GEAR AND HUB ASSY. IS SERVICED AS A COMPLETE ASSY. ONLY.	
R23513559	GEAR ASSY., CAMSHF/ACSRY BRG & HUB	1
8929448	BOLT, M12 X 1.75 X 35	4
1.7221	GEAR ASSY., ADJUSTABLE CAMSHAFT IDLER	
8929322	GEAR ASSY. (INCLUDES BUSHING WHICH IS NOT SERVICED SEPARATELY)	1
1.7255	HUB, ADJUSTABLE IDLER GEAR	
8929111	HUB	1
11509607	NUT, M12 X 1.75	3
8929336	PLATE, ADJUSTMENT	1
1.8000	- VALVE AND INJECTOR OPERATING MECHANISM	
1.8050	HARNESS ASSY., INJECTOR	
23513556	HARNESS ENG EDU TO INJ DDEC III	1
	USES 12034222 STRAIGHT SCREW TERMINAL SLOTTED	
11509511	BOLT, M8 X 1.25 X 20 MM	2
1.8060	ARM ASSY., EXHAUST VALVE ROCKER	
	ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.	
23523174	(R) ARM & RLR ASSY. EXH RKR W/O OIL HOLE	6
9421740	PLUG, CUP 3/16" (12.9320)	12
1.8075	ARM ASSY., INTAKE VALVE ROCKER	
	ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.	

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1.8000 - VALVE AND INJECTOR OPERATING MECHANISM		
R23520644	ARM & RLR ASSY., INT RKR W/O OIL HOLE	3
1.8080 ARM ASSY., INJECTOR ROCKER		
ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.		
R23524771	ARM ASSY., INJ ROCKER CERAMIC ROLLER	6
1.8135 SCREW, ROCKER ARM ADJUSTING		
23517283	BUTTON, VALVE S50/60	30
23520818	SCREW ASSY., INTAKE VALVE ADJUSTING UNITIZED 50/60	AR
23520819	SCREW ASSY., EXHAUST VALVE ADJ UNITIZED 50/60	12
8929607	SCREW, W/3/16" INTERNAL SOCKET END (INJECTOR)	6
23514371	NUT, 3/8"-24 HEX JAM	30
8929494	RETAINER (1.8090)	18
1.8160 SHAFT ASSY., ROCKER		
23524767	SHAFT ASSY., ROCKER	2
23521734	STUD/SEAL ASSY.	2
23526221	STUD, M12 1.75 X 136 L.	2
23521111	SEAL	2
23522975	SEAL, RACETRACK FRT CAMSHAFT CAP	1
8929740	SEAL, RING .134X.074X.480 I.D.	1
9421745	PLUG, CUP 1/2" (12.9330)	2
23500708	NUT, M12 X 1.75	2
23526256	BOLT, M12 X 1.75 X 140.0	6
1.8310 VALVE, EXHAUST		
23507504	VALVE KIT (IDENTIFICATION-H) (INCLUDES SEAL IN 1.8320 AND LOCK IN 1.8370)	12
1.8315 VALVE, INTAKE		
23501576	VALVE KIT (INCLUDES SEAL IN 1.8320 AND LOCK IN 1.8370)	12
1.8320 GUIDE, EXHAUST VALVE		
23518571	GUIDE	24
23523930	SEAL EXH VALVE STEM (4 VLV)	24
1.8330 INSERT, EXHAUST VALVE		
8929127	INSERT, (INTAKE) (STD) (7.155MM-7.257MM)	12
8929625	INSERT, (INTAKE) (.010" U.S.) (6.901MM-7.003MM)	AR
8929626	INSERT, (INTAKE) (.020" U.S.) (6.647MM-6.749MM)	AR
8929627	INSERT, (INTAKE) (.030" U.S.) (6.393MM-6.495MM)	AR
8929126	INSERT, (EXHAUST) (STD) (6.261MM-6.363MM)	12
8929628	INSERT, (EXHAUST) (.010" U.S.) (6.007MM-6.109MM)	AR
8929629	INSERT, (EXHAUST) (.020" U.S.) (5.753MM-5.855MM)	AR
8929630	INSERT, (EXHAUST) (.030 U.S.) (5.499MM-5.601MM)	AR
1.8340 SPRING, EXHAUST VALVE		
8929415	SPRING (YELLOW STRIPE)	24
1.8360 SEAT, EXHAUST VALVE SPRING		
8929076	SEAT (2.2MM-2.4MM)	24
8929634	SEAT (2.45MM-2.65MM)	AR
8929635	SEAT (2.70MM-2.90MM)	AR
8929636	SEAT (2.95MM-3.15MM)	AR
1.8365 ROTATOR, VALVE		
8929105	ROTATOR	24
1.8370 LOCK, EXHAUST VALVE SPRING		
8929573	LOCK, KEY EXHAUST VALVE SPRING	48
1.8000A - ROCKER COVER		
1.8450 COVER ASSY., ROCKER		
23522272	COVER ASSY., ROCKER 10BLT SMC VINYL	1
1.8455 GASKET, ROCKER COVER		

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PART #	NAME AND DESCRIPTION	QUANTITY
1.8000A - ROCKER COVER 23522269	GASKET, ROCKER COVER MOD SEAL	1
1.8460 BOLT, ROCKER COVER 23522271	SLEEVE ASSY., ROCKER COVER BOLT MOD SEAL	10

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PART #	NAME AND DESCRIPTION	QUANTITY
2.1000A - FUEL INJECTOR		
2.1001 INJECTOR ASSY. R5236952	INJECTOR ASSY. 10MM 8 HOLE VCO 155 DEG SPRA.	6
2.1002 SERVICE KIT, INJECTOR 5234934 OBS	KIT, EUI GROOVED SOLENOID STATOR (OBSOLETE)	AR
5236116	KIT, EUI SOLENOID SEALS & SCREWS	AR
2.1040 RING, INJECTOR SEAL FORMER STYLE EUI INJECTOR BODY USED 2-UPPER AND 2-LOWER SEAL RINGS. CURRENT STYLE EUI INJECTOR BODY USE 1-UPPER AND 2-LOWER SEAL RINGS.		
5234702	RING, SEAL UPPER	1
5234699	RING, SEAL LOWER	2
2.1270 CLAMP, INJECTOR 8929088	CLAMP	6
8929021	WASHER	6
8929393	BOLT, M10 X 1.5 X 70.0 (12.9001)	6
2.1000B - INJECTOR CONTROLS ELECTRONIC		
2.1501 MODULE ASSY., ELECTRONIC CONTROL (ECM) 12040542	COVER ECM TERMINAL PROTECTION	1
23513607	COVER COMMUNICATION PROTECTION DDEC III	1
23513608	COVER POWER CONN PROTECTION DDEC III	1
23519308	(R) MODULE, ELEC CONTROL DDEC IV	1
23512309	BOLT M8 1.25 SHOULDER 12 PT HD	4
2.1520 PLATE ASSY., ELECTRONIC DISTRIBUTOR UNIT COLD 23512307	ISOLATOR, ECM MOUNT	8
2.1600 SENSOR, OIL OR FUEL PRESSURE 23511176	SENSOR, OIL/FUEL PRESSURE	1
2.1610 SENSOR, MAG. IDLER 8929387	SENSOR (SRS)	1
11504986	(INCLUDES 1-8928652 SEAL RING) BOLT, M8 X 1.25 X 14 MM	1
2.1620 SENSOR, MAG. CRANKSHAFT 8929388	SENSOR (TRS)	1
11504986	(INCLUDES 2-8928652 SEAL RINGS) BOLT, M8 X 1.25 X 14 MM	1
2.1630 SENSOR, OIL, FUEL OR COOLANT TEMPERATURE 23518092	SENSOR ASSY., OIL WATER FUEL & AIR TEMPERATURE	1
23515251	SENSOR ASSY., COOL TEMP 3/4 IN. BRS	1
2.1647 SENSOR, AIR TEMPERATURE 23515250	SENSOR ASSY., AIR TEMP PLSTC DDEC III	1
11503454	BOLT, M10 X 1.5 X 20.0	1
2.1650 SENSOR, AIR PRESSURE 23522322	SENSOR ASSY. AIR TURBO BOOST DDEC IV	1
5182977	RING, SEAL (3.3055)	1
23522719	BOLT M5 0.8 X 20.0 LG HEX HD	2
2.1700 HARNESS, ELECTRONIC DISTRIBUTOR UNIT TO INJECTOR INJECTOR HARNESS ASSY. MAY BE SHOWN IN 1.8000 VALVE MECHANISM TYPE UNDER (1 .8050).		
8929534	CLIP	1
11509511	BOLT, M8 X 1.25 X 20 MM	2
2.1702 COVER, INJECTOR HARNESS 8929508	COVER	1
2.1720 HARNESS, ENGINE SENSORS TO DISCONNECT 23522323	HARNESS ENG SENSOR DDEC IV	1

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2.1000B - INJECTOR CONTROLS ELECTRONIC		
23504750	STRAP, TIE NYLON 11.60"-11.70" LG.	1
5101020	STRAP, NYLON (2.5255)	9
11504986	BOLT, M8 X 1.25 X 14 MM	3
2.2000 - FUEL PUMP		
2.2001 PUMP ASSY., FUEL		
SEE ASSEMBLY BREAKDOWN PAGE A1.		
8924150	ELBOW, 1/2"-90 DEG. FL. TUBE; 3/8" PIPE (12.9390)	1
23523754	PUMP, FUEL ASSY. (RH)	1
2.2010 BODY, FUEL PUMP		
23525945	STATOR, (VIP) BARNES FUEL PUMP	1
2.2012 PIN, ALIGNMENT		
23500694	PIN, ALIGNMENT	2
2.2030 COVER, FUEL PUMP		
23506551	SCREW	8
23506552	PLUG 3/8-18 PLASTIC F/PUMP BARNES S60	2
23506561	PLUG	1
23511957	COVER, FUEL PUMP	1
8923535	PLUG 1/8-27 PLSTC SHPG BARNES F/PMP	1
2.2040 GASKET, FUEL PUMP COVER		
23506547	GASKET, GOLD	1
23506548	GASKET, SILVER	1
23516117	GASKET, BLUE	1
23516118	GASKET, AMBER	1
2.2060 BEARING, FUEL PUMP		
23523802	BEARING, BALL BARNES FUEL PUMP	1
8923526	BEARING, FUEL PUMP	4
2.2070 SEAL, FUEL PUMP OIL		
23512243	SEAL, OIL SGL LIP	1
23523535	SEAL, OIL BARNES FUEL PUMP	1
23525982	RING, CRESCENT BARNES FUEL PUMP	1
2.2087 GEAR, FUEL PUMP DRIVE		
23511959	GEAR (.275)	2
23511963	KEY, FUEL PUMP DRV. GEAR	1
8923522	RING, GEAR RETAINING	4
2.2088 GEAR, FUEL PUMP DRIVEN		
8923521	PIN, DRIVEN GEAR	1
2.2089 SHAFT, FUEL PUMP DRIVEN		
A SHAFT ASSY. INCLUDES GEAR NOT SOLD SEPARATELY.		
23511960	SHAFT	1
2.2093 SHAFT, FUEL PUMP DRIVE		
A SHAFT ASSY. INCLUDES ITEMS IN 2.2093.		
23525943	SHAFT, DRIVE (VIP) BARNES FUEL PUMP	1
2.2130 VALVE ASSY., FUEL PUMP		
23506560	SPACER, RELIEF VALVE	2
23506564	PIN, SHEAR RELIEF VALVE	1
23520879	SPACER	1
8923528	VALVE, FUEL PUMP	1
2.2160 SPRING, FUEL PUMP VALVE RETAINING		
23506557	SPRING, RELIEF VALVE	1
2.2170 PLUG, FUEL PUMP VALVE		
23506555	CAP, RELIEF VALVE	1
8929832	ELBOW, 90 DEG. 3/8 INV FLD TUBE 3/8 PIPE (12.9480)	1
23506222	BOLT, M8 X 1.25 X 20 12 PT.	3
2.2007 GASKET, FUEL PUMP TO ENGINE OR DRIVE ASSEMBLY		
5150193	GASKET (FUEL PUMP TO DRIVE ASSY.) (5.1010)	1
2.2240 DRIVE ASSY., FUEL PUMP		
SEE ASSEMBLY BREAKDOWN PAGE B1.		
23523751	DRIVE ASSY., FUEL PUMP DL-ROW BALL BRG	1
2.2060 BEARING, FUEL PUMP		
23523748	BEARING, FUEL PUMP DRIVE	1
2.2070 SEAL, FUEL PUMP OIL		
23523753	SPACER FUEL PUMP DRIVE	1
2.2087 GEAR, FUEL PUMP DRIVE		
8929786	GEAR, 15.875 MM I.D.	1
2.2093 SHAFT, FUEL PUMP DRIVE		
A SHAFT ASSY. INCLUDES ITEMS IN 2.2093.		

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2.2000	- FUEL PUMP	
23519986	NUT M14 X 2.0-6H	1
23523749	SHAFT, FUEL PUMP DRIVE	1
2.2260	ADAPTOR, FUEL PUMP DRIVE	
23523750	ADAPTOR, FUEL PUMP DRIVE	1
23523755	BOLT, M6 1.00 X 30.0"	3
2.2292	HUB, FUEL PUMP DRIVE GEAR	
23523752	SPROCKET, FUEL PUMP DRIVE	1
9411502	RING, RETAINING (2.7470)	1
8929253	SEAL, RING .139" X 4.609" I.D. (2.2280)	1
11504822	BOLT, M8 X 1.25 X 30	5
2.3000A	- FUEL FILTER AND STRAINER	
2.3010	ELEMENT, FUEL STRAINER	
23518481	FILTER, FUEL PRIMARY	1
2.3080	COVER, FUEL STRAINER	
5148023	COVER	1
8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)	3
11505299	BOLT, M10 X 1.5 X 30.0 MM	2
2.3305	FUEL/AIR SEPARATOR	
23515444	PRO-CHEK FUEL/AIR SEPARATOR SIDE MT	AR
23513543	PRO-CHEK FUEL/AIR SEPARATOR REAR MT	AR
23513542	@ INSTALLATION KIT FOR PRO-CHEK SIDE MT	AR
@ INCLUDES HOSES AND HARDWARE NECESSARY TO RETROFIT EXISTING ENGINES.		
2.3320	ELEMENT, FUEL FILTER	
23518482	FILTER, FUEL SECONDARY	1
2.3390	COVER, FUEL FILTER	
23517075	VALVE ASSY., FUEL SHUTOFF	1
5148171	COVER	1
23518092	SENSOR ASSY., OIL WATER FUEL & AIR TEMPERATURE	1
11505299	BOLT, M10 X 1.5 X 30.0 MM	2
2.3590	SEPARATOR, FUEL WATER	
23514047	PROCESSOR ASSY., FUEL PRO 380 12V HEAT	AR
23515125	PROCESSOR ASSY., FUEL PRO 380 NO HEAT	AR
23516638	PROCESSOR ASSY., FUEL PRO 380 24V HEAT	AR
23521528	KIT, ELEMENT & GROMMET W/SEAL RINGS 380/382	AR
23516639	KIT, FUEL PRO 380E NO HEAT W/O DIVERTER CAP (W/MOUNTING HARDWARE)	AR
23516640	KIT, FUEL PRO 380E 12V HEAT W/O DIVERTER CAP (W/MOUNTING HARDWARE)	AR
23516641	KIT, FUEL PRO 380E 24V HEAT W/O DIVERTER CAP (W/MOUNTING HARDWARE)	AR
2.5000A	- FUEL LINES AND FUEL COOLER	
2.5060	HOSE, FUEL PUMP INLET	
MBHH0165	HOSE ASSY., #8 X 16.5"L H&H	1
2.5070	CLIP, STRAINER TO FUEL PUMP	
2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)	1
2.5110	HOSE, FUEL PUMP OUTLET TO FILTER	
BAHH0356	HOSE ASSY., #6 X 37.9 H&H	1
2.5160	HOSE, FILTER TO CYLINDER HEAD	
MAHP0237	HOSE ASSY., #6 X 23.7 H&P	1
23513205	ELBOW, 90 DEG. 3/8" FL TUBE 3/8" PIPE	1
8929725	ELBOW, .80" RESTRICTION, 3/8"PIPE X5/16" (2.5210)	1
2.5180	CLIP, CYLINDER HEAD INLET	
2236474	CLIP, #10	1
11504986	BOLT, M8 X 1.25 X 14 MM	1
2.5209	VALVE, FUEL DRAIN CHECK	

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2.5000A - FUEL LINES AND FUEL COOLER 23516918	VALVE CHK FUEL 3/8 NPTF MALE	1
2.5255 SHIELDING, FLEXIBLE HOSE 5101020	STRAP, NYLON (2.5255)	1

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3.3000C - AIR INTAKE MANIFOLD		
3.3801	AIR INTAKE MANIFOLD	
23517437	MANIFOLD AIR INT SETBACK 1/2 SC BOSS	1
11509526	BOLT, M10 X 1.5 X 130 MM	4
11509799	BOLT, M10 X 1.5 X 70 MM	2
23505051	BOLT M10 X 1.5 X 170	1
8922327	PLUG, 1/4" NPTF (12.9550)	2
8923916	PLUG, 1/2" PIPE (12.9550)	1
3.3803	GASKET, AIR INTAKE MANIFOLD	
23517875	GASKET AIR INT MFD STL RUB CTD S50/60	3
3.5000A - TURBOCHARGER		
3.5001	TURBOCHARGER	
23525462	TURB ASM GTA42 1.28A/R 94MM CMPR EXH TO	1
3.5004	KIT, WASTEGATE ACTUATOR	
23521436	KIT TURB HOSE GT35/42	AR
23523120	KIT, WASTEGATED ACTUATOR 31PSI VERT MT/70 DEG	AR
8929169	WASHER (12.9190)	4
11506101	NUT, M10 X 1.5	4
3.5305	CONNECTOR, TURBOCHARGER EXHAUST INLET	
23522601	SPACER, PLATE	1
3.5307	GASKET, TURBOCHARGER EXHAUST INLET CONNECTION	
8929529	GASKET, TURBO EXHAUST INLET	2
3.5500	TUBE, TURBOCHARGER OIL SUPPLY	
23515895	TUBE OIL SUPPLY SCROLL DOWN TURBO S60	1
8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)	2
3.5502	CLIP, TURBOCHARGER OIL SUPPLY TUBE	
5109000	BRACKET, CLIP	1
5145994	CLIP, 3/8" TUBE X 1/2" BOLT	1
11509511	BOLT, M8 X 1.25 X 20 MM	1
11507036	NUT, M8 X 1.25	1
3.5505	TUBE, TURBOCHARGER OIL RETURN	
23515354	TUBE TURB OIL DRN FLEX SST MED MT	1
23505039	ELBOW, 90 DEG FLD 3/4 TUBE	1
11509511	BOLT, M8 X 1.25 X 20 MM	2
3.5506	GASKET, TURBOCHARGER OIL RETURN TUBE	
8929285	GASKET (3.5505)	1
3.5507	CLIP, TURBOCHARGER OIL RETURN TUBE	
2476233	CLIP, .750" DIA., 3/8" BOLT	1
23515353	BRACKET CLIP 90DEG	1
11509511	BOLT, M8 X 1.25 X 20 MM	1
11507036	NUT, M8 X 1.25	1

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PART #	NAME AND DESCRIPTION	QUANTITY
4.1000A - OIL PUMP		
4.1001 PUMP ASSY., OIL		
A PUMP ASSY. INCLUDES ITEMS IN 4.1040, 4.1065, 4.1075, 4.1090 AND 4.1220.		
R23505886	REMANUFACTURED 23505886	AR
23505886	PUMP ASSY., RT. SIDE ENGINE	1
23505885	DOWEL, SLEEVE OIL PUMP	1
8929011	PIN, 25L., DOWEL	1
11502826	BOLT, M10 X 1.5 X 40.0	2
8929393	BOLT, M10 X 1.5 X 70.0 (12.9001)	2
4.1003 OVERHAUL KIT, OIL PUMP		
AN OVERHAUL KIT INCLUDES ITEMS IN 4.1065, 4.1075, 4.1520, 4.1590 AND 4.1730		
23511065	OVERHAUL KIT, RT SIDE ENGINE	1
4.1030 SHIM, OIL PUMP		
23508740	SHIM (.0055" THK.)	AR
4.1040 BODY, OIL PUMP		
BODY ASSY. INCLUDES BUSHINGS IN 4.1050.		
23505878	BODY ASSY., RT. SIDE ENGINE	1
4.1050 BUSHING, OIL PUMP BODY		
23505879	BUSHING, SHAFT & DRIVE GEAR	2
4.1065 SHAFT AND GEAR ASSY., OIL PUMP DRIVE		
23505882	SHAFT & GEAR ASSY., OIL PUMP	1
4.1075 SHAFT AND GEAR ASSY., OIL PUMP DRIVEN		
23507337	SHAFT & GEAR ASSY., OIL PUMP	1
4.1090 GEAR, OIL PUMP DRIVE		
23505884	GEAR, 69 TEETH	1
4.1220 COVER, OIL PUMP		
A COVER ASSY. INCLUDES BUSHINGS IN 4.1220		
23505883	COVER ASSY, OIL PUMP	1
23505879	BUSHING, SHAFT & DRIVE GEAR	2
11509511	BOLT, M8 X 1.25 X 20 MM	2
11509514	BOLT, M8 X 1.25 X 50 MM	2
4.1000B - OIL DISTRIBUTION SYSTEM		
4.1510 PIPE, OIL PUMP INLET		
23506683	TUBE & SCREEN ASSY, OIL PUMP	1
11509514	BOLT, M8 X 1.25 X 50 MM	2
4.1520 GASKET, OIL PUMP INLET PIPE		
23505992	GASKET, OIL INLET TUBE TO PUMP	1
4.1540 BRACKET, OIL PUMP SCREEN SUPPORT		
8929104	BRACKET	2
11505299	BOLT, M10 X 1.5 X 30.0 MM	4
11502812	NUT, M10 X 1.5	2
4.1580 PIPE, OIL PUMP OUTLET		
23505890	TUBE, OIL PUMP OUTLET	1
23514767 NS	ELBOW ASM OIL INL & PRESS RLF VLV S60	1
4.1580 PIPE, OIL PUMP OUTLET		
23514738	ELBOW, OIL INL & RELIEF VALVE	1
457008	PIN, 3/16" X 1-1/2" SPRING (12.9270)	1
4.1620 SPRING, OIL PUMP OUTLET PIPE BYPASS VALVE		
5126327	SPRING (2.96" FREE LENGTH, 15 COILS, CLOSED ENDS,	1
4.1630 VALVE, OIL PUMP OUTLET PIPE BYPASS		
8922740	VALVE	1
5117957	SEAT	1
23505891	RING SEAL, OIL PUMP OUTLET	1
23505892	RING SEAL, OIL PUMP INLET	1
11504822	BOLT, M8 X 1.25 X 30	2

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4.1000B	- OIL DISTRIBUTION SYSTEM	
4.1590 8929347	GASKET, OIL PUMP OUTLET PIPE GASKET (TO BLOCK)	1
4.1000C	- OIL PRESSURE REGULATOR	
4.1670 23512901	REGULATOR, OIL PRESSURE A PUMP KIT INCLUDES PUMP ASSY. AND SEAL RING. REGULATOR ASSY.	1
4.1680 457008	BODY, OIL PRESSURE REGULATOR AND RELIEF PIN, 3/16" X 1-1/2" SPRING (12.9270)	1
8929283	BODY, REGULATOR	1
4.1690 5126327	SPRING, OIL PRESSURE REGULATOR SPRING (2.96" FREE LENGTH, 15 COILS, CLOSED ENDS,	1
4.1700 8922740	VALVE, OIL PRESSURE REGULATOR VALVE	1
4.1701 23512900	SEAT, OIL PRESSURE REGULATOR SEAT	1
11504822	BOLT, M8 X 1.25 X 30	2
4.1671 8921086	RELIEF, VALVE OIL PRESSURE A PUMP KIT INCLUDES PUMP ASSY. AND SEAL RING. VALVE ASSY.	1
4.1680 457008	BODY, OIL PRESSURE REGULATOR AND RELIEF PIN, 3/16" X 1-1/2" SPRING (12.9270)	1
8921084	BODY, RELIEF	1
4.1690 5126327	SPRING, OIL PRESSURE REGULATOR SPRING (2.96" FREE LENGTH, 15 COILS, CLOSED ENDS,	1
4.1700 8922740	VALVE, OIL PRESSURE REGULATOR VALVE	1
4.1701 5117957	SEAT, OIL PRESSURE REGULATOR SEAT	1
11504822	BOLT, M8 X 1.25 X 30	2
4.2000A	- OIL FILTER	
4.2250 23527033	ELEMENT, OIL FILTER FILTER, ELEMENT SPIN ON LUBE OIL	2
4.2291 8923847	ADAPTOR, OIL FILTER COVER PLUG, PIPE 1/4-18" NPTF	1
4.4000A	- OIL COOLER	
4.4001 23522415	CORE, OIL COOLER ENGINE CORE ASSY., ENG OIL CLR 11 PLT MODINE	1
4.4030 23506247	GASKET, OIL COOLER CORE-INNER GASKET, OIL COOLER HOUSING	1
4.4050 23526054	HOUSING, OIL COOLER-ENGINE HOUSING ASSY., OIL COOLER	1
4.4050 8922327	HOUSING, OIL COOLER-ENGINE PLUG, 1/4" NPTF (12.9550)	1
23511573	PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP	4
23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP	1
23516104	PLUG PIPE 1/4-18 HEX HD STL CTD RED	1
23507182	BOLT, SPL M8 X 1.25 X 73.0	3
23507183	BOLT, SPL M8 X 1.23 X 93.0	7
4.4053 23508392	HOUSING, OIL TRANSFER COOLER-FILTER ADAPTOR RING, SEAL	1
4.4055 8929289	GASKET, OIL COOLER HOUSING RING, SEAL	1
4.4110	ADAPTOR, OIL COOLER AN ADAPTOR ASSY. INCLUDES 4-PLUGS IN 4.4110 PLUS ITEMS IN 4.4140 AND 4.4150	

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4.4000A - OIL COOLER		
23521364	ADAPTOR ASSY., FLTR/CLR DIRECT OIL EXIT	1
23508392	RING, SEAL	2
23505062	BOLT, M10 X 1.5 X 40	4
23511573	PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP	1
4.4112 GASKET, ADAPTOR TO OIL COOLER HOUSING		
23505902	RING, SEAL BYPASS FILTER	1
4.5000A - OIL FILLER		
4.5010 CAP, OIL FILLER		
23514362	LABEL-OIL FILL CAP S50/60	1
5117362	CAP, OIL FILLER	1
4.5020 STRAINER, OIL FILLER-TUBE		
23513642	SCREEN	1
11503804	SCREW ASSY.	3
4.5030 CHAIN, OIL FILLER CAP		
5121989	CHAIN SASH 6.50 LG	1
5107979	HOOK, CHAIN ("S" TYPE) (4.5020)	2
4.5070 COVER, OIL FILLER HOLE		
23513641	HOUSING	1
23516970	PLATE OIL FILL CVR DCST AL S50/60	1
11504822	BOLT, M8 X 1.25 X 30	4
11509511	BOLT, M8 X 1.25 X 20 MM	4
11509518	BOLT, M8 X 1.25 X 90 MM	1
4.5080 GASKET, OIL FILLER HOLE COVER		
8929302	GASKET, 4 HOLE (4.5007)	1
23512877	GASKET, COVER (1.3192)	1
4.6000A - DIPSTICK		
4.6001 DIPSTICK		
23517836	GAUGE ASM OIL LVL SNAP LK 16.33LG S60 (INCLUDES 23514465 SEAL RING)	1
4.6020 GUIDE, DIPSTICK		
23513683	GUIDE	1
4.6030 ADAPTOR, DIPSTICK		
23514328	TUBE ASM 8.70 LG	1
4.6030 ADAPTOR, DIPSTICK		
137401	NUT, 1/2" INV. TUBE	1
23513842	SEAL OIL LVL GA ADAP	1
4.7000A - OIL PAN		
4.7001 PAN, OIL		
OIL PAN ASSYS. INCLUDE PLUGS, INSERTS, SEAL RINGS, AND NUTS IN 4.7001		
23521330	KIT INSERT OIL PAN (W/INSERTS, NUTS & SEAL RINGS)	3
23522283	PAN ASSY., OIL RR SUMP	1
8923313	PLUG, 3/4" PIPE (12.9550)	3
5178994	PLUG, 3/4"-14 NPTF PIPE (4.7080)	1
23520929	SEAL RING	3
23522281	SLEEVE ASSY., OIL PAN BOLT MOD SEAL SYS	10
4.7030 GASKET, OIL PAN TO BLOCK		
23522279	GASKET, OIL PAN W/O CORD MOD SEAL SYS	1
4.8000A - VENTILATING SYSTEM		
4.8001 PIPE ASSY, BREATHER		
23517013	TUBE BTHR DRAFT (RKR CVR) 1344.0 LG	1
23518315	HOSE 90 DEG 1.0ID 1.80 X 1.0R	1
4.8039 CLAMP, BREATHER TUBE		

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PART #	NAME AND DESCRIPTION	QUANTITY
4.8000A - VENTILATING SYSTEM		
5186840	CLAMP, 1 1/2" I.D. (12.9660)	2
4.8040 CLIP, BREATHER TUBE		
23519756	BRACKET	1
23506443	CLIP, #16 HOSE 1" DIA. (4.8183)	2
11509511	BOLT, M8 X 1.25 X 20 MM	1
23505062	BOLT, M10 X 1.5 X 40	1
5160425	SPACER, 13/32"X23/32"	1
11506101	NUT, M10 X 1.5	1
11507036	NUT, M8 X 1.25	1

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PART #	NAME AND DESCRIPTION	QUANTITY
5.1000	- FRESH WATER PUMP	
5.1001	PUMP ASSY., FRESH WATER	
	A PUMP KIT INCLUDES PUMP ASSY. AND SEAL RING.	
23526039	(R) PUMP KIT, HI FLOW HT SINK ROT WTR SEAL (POCKET PUMP)	1
5.1030	BODY, FRESH WATER PUMP	
23511573	PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP	2
23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP	1
8929594	PLUG, 3/8"-18 DIA. PIPE EXT. HEX. SOC.	1
5.1031	COVER, FRESH WATER PUMP BODY	
8922383	COVER, NON-METALLIC	1
5.1032	GASKET, FRESH WATER PUMP COVER	
23512048	SEAL RING	1
8922407	RING RETAINER	1
5.1050	SHAFT ASSY., FRESH WATER PUMP	
23505896	SHAFT	1
5.1070	BEARING, FRESH WATER PUMP	
8929422	BEARING ASSY.	1
5.1071	RETAINER, FRESH WATER PUMP BEARING AND SEAL	
8929427	RING	1
5.1110	IMPELLER, FRESH WATER PUMP	
23517973	IMPELLER W/PMP C/I 6 VANE S60	1
5.1130	SEAL, FRESH WATER PUMP	
23522433	SEAL, WATER PUMP HEAT SINK ROTOR	1
8929134	SEAL, LIP TYPE	1
5.1190	GEAR, FRESH WATER PUMP DRIVE	
23505910	GEAR, RH 61 TEETH	1
23508863	BOLT, M12X1.75X50.0MM	1
23505897	WASHER, SPL WAT PUMP GEAR (5.1110)	1
23526038	SEAL, O-RING .139"X 5.234"ID	1
11509523	BOLT, M10 X 1.5 X 55 MM	1
23505755	BOLT, M10 X 1.5 X 155.0	2
5.2000B	- THERMOSTAT	
5.2050	THERMOSTAT ASSY.	
8929878	THERMOSTAT ASSY. 190 DEG. OPENING TEMP.	2
5.2060	SEAL, THERMOSTAT	
5132155	SEAL	2
23509514	SEAL FLANGE	AR
5.2120	COVER, THERMOSTAT HOUSING	
8929728	COVER	1
23511572	PLUG, 1/2" NPTF SQ. SOC. (12.9550)	2
23511573	PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP	2
5136240	PLUG CAP .42" DIA. (2.2001)	1
8924140	DRAINCOCK, 1/4" (12.9510)	1
23505050	BOLT, M10 X 1.5 X 85	4
5.2000C	- WATER BYPASS TUBE	
5.2160	TUBE, WATER BYPASS	
23505898	TUBE	1
5.2165	HOSE, WATER BYPASS TUBE	
8929875	HOSE, 1 3/4" X 3.25"	2
5.2190	CLIP, WATER BYPASS TUBE	
23505048	CLAMP, 2"-2 1/2" DIA. HOSE	4
5.3000B	- WATER CONNECTIONS	
5.3400	TUBE, WATER PUMP TO OIL COOLER	
23505899	TUBE (FOR HI & MED MT. TURBO)	1
5.3401	HOSE, WATER PUMP TO OIL COOLER	
23506325	HOSE, 2.75"X3.0" L (BLUE)	2

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PART #	NAME AND DESCRIPTION	QUANTITY
5.3000B	- WATER CONNECTIONS	
5.3405	CLIP, WATER PUMP TO OIL COOLER TUBE	
8929865	CLAMP, 3"-3 1/2" ID HOSE	4
5.4000A	- FAN	
5.4010	BLADE, FAN HIGH LOW AND CRANKSHAFT MOUNTED	
NPN	(CUSTOMER FURNISHED)	1
	BLADE	
5.4015	PULLEY AND HUB ASSY., FAN	
8929169	WASHER (12.9190)	6
8929218	PULLEY, FAN 3 GROOVE 203.0, 1 GROOVE 254.0	1
8929585	BOLT, M10 X 1.5 X 380.0 (12.9001)	1
9409036	BOLT, 3/8"-24 X 1.125" (12.9001)	6
5.4025	SUPPORT, FAN MOUNTING	
23511356	SUPPORT, W/UPR RT BOLT BOSS	1
11504822	BOLT, M8 X 1.25 X 30	5
11509525	BOLT, M10 X 1.5 X 110 MM	2
11509531	BOLT, M14 X 2.0 X 60 MM	1
11509533	BOLT, M14 X 2.0 X 100 MM	1
11513960	BOLT, M10 X 1.5 X 145 MM	1
5.4102	SPINDLE ASSY., FAN DRIVE	
	A SPINDLE ASSY. INCLUDES ITEMS IN 5.4102, 5.4103, 5.4111 AND 5.4160.	
8929538	SPINDLE ASSY.	1
455322	FITTING, 1/8" VENT (12.9540)	1
271283	FITTING, 45 DEG.-1/8" GREASE (12.9540)	1
455734	PIN, SPRING 1/8" X 3/4" (12.9300)	1
11500944	BOLT, M12X1.75X40.0 MM	4
5131978	WASHER, .53 X 1.00 (1.5001)	4
8929214	WASHER	1
5.4103	HOUSING, FAN DRIVE SPINDLE	
8929215	PLATE	1
8920419	BOLT, M10X1.5"X45.0" SPECIAL (1.2070)	1
5.4111	BEARING, FAN SPINDLE	
7451005	BEARING, ROLLER (12.4048)	1
23506569	BEARING, BALL (OPTIONAL TO 8929530)	1
8929064	RING, INT RETAINING 3.121" O.D. (12.4048)	1
23518178	BRG BALL ALT DRIV HEAT STABILIZED S60	1
8929063	RING, INT RETAINING 3.734" O.D. (12.4048)	1
8929216	RING, INT RETAINING 1.618" O.D. (5.4111)	1
5.4160	SEAL, FAN SPINDLE	
8929213	SEAL	1

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PART #	NAME AND DESCRIPTION	QUANTITY
6.1000A - EXHAUST MANIFOLD AND/OR CONNECTIONS		
6.1001	MANIFOLD, EXHAUST	
23511221	MANIFOLD, 3 PC END FRONT HIGH MOUNT	1
23511222	MANIFOLD, 3 PC FRT & REAR END	1
23511978	MANIFOLD, 3 PC CENTER SECTION HIGH MOUNT	1
6.1010	GASKET, EXHAUST MANIFOLD	
23511666	GASKET, 2 PORT (GRAPHITE)	3
6.1022	STUD, EXHAUST MANIFOLD TO TURBOCHARGER	
23517241	STUD SPL M10X1.5X58.5 EXH MAN S50G	4
6.1025	BOLT, EXHAUST MANIFOLD TO HEAD	
8929357	BOLT, M10 X 1.5 X 120 (12.9001)	7
23511667	SPACER	12
6.1171	HEAT SHIELD, EXHAUST MANIFOLD	
23520972	HEAT SHIELD EXH MANIF FRT	1
23519124	SHIELD HEAT EXH MANIFOLD RR	1
23509744	STUD, BOLT M10X1.5X120.0	5
11506101	NUT, M10 X 1.5	5
6.2000A - EXHAUST MUFFLER AND/OR CONNECTIONS		
6.2095	CONNECTION, FLEXIBLE EXHAUST	
23506159	CLAMP, 5.88" DIA.	1

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PART #	NAME AND DESCRIPTION	QUANTITY
7.1000A - BATTERY CHARGING GENERATOR		
7.1001	GENERATOR ASSY.	
19010182	GEN CHRГ AC 24V70A NG CW/CCW 21SI	1
R0459110	ALTERNATOR, 24V 70A 21SI (REMANUFACTURED)	AR
9427945	BOLT, 1/2"-13 X 6.25" (12.9001)	1
103323	LOCKWASHER, 1/2"	2
7.1500	PULLEY, GENERATOR	
5140070	PULLEY, 3.66" DIA, 2 GRVS .500" WIDE	1
102637	NUT, 1/2"-13	1
7.1575	BELT, GENERATOR DRIVE	
23517835	BELT .500 X 53.00 PREM HI CAP	1
7.1580	STRAP, GENERATOR ADJUSTING	
23528167	SPACER ALTERNATOR S60	1
23519910	ROD, ADJ M16 X 2.0 X 265.0 L.	1
23511669	LINK, ADJUSTING ROD	1
103345	WASHER, 5/8"	2
11501055	NUT, M16X2.0	2
11509526	BOLT, M10 X 1.5 X 130 MM	1
442733	BOLT, 1/2"-13 X 1.25" (12.9001)	1
11506101	NUT, M10 X 1.5	1
7.1595	BRACKET, GENERATOR MOUNTING	
5132715	WASHER, .53"X.94"X.12" (1.3140)	3
23521122	BRACKET ALTNTR LOW MT S50 TRK&INDST	1
23521132	BOLT M10 1.5 X 140.0 FLG HEX HD CTD S60	2
23521131	NUT M10 HEX FLANGE	2
7.3000A - STARTING MOTOR		
7.3001	MOTOR ASSY., STARTING	
R0461128	MOTOR ASSY., 24V 42MT (REMANUFACTURED)	AR
10478980	MOTOR ASSY. (24V. CW. INSUL. 42MT)	1
9439720	BOLT, 5/8"-11X2 1/4" (12PT.) (12.9005)	3
103325	LOCKWASHER, 5/8"	3

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PART #	NAME AND DESCRIPTION	QUANTITY
11.1000A	ENGINE MOUNTING BASE	
11.1070	SUPPORT, ENGINE FRONT	
8929744	SUPPORT (WEST COAST) ITEM 1	1
11509528	BOLT, M12 X 1.75 X 30 MM	8
8929068	BOLT, M14 X 2.0 X 140 (12.9001)	4

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12.8000A SUPPLIES/MAINTENANCE PRODUCTS

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FIG	PART NO.	12.8000A SUPPLIES/MAINTENANCE PRODUCTS	A	B	C	D	E	F	G	H	I	J	K	L	M	N
		NAME AND DESCRIPTION														
		(Note: Assemblies are shown for component reference only.)														
		FUEL SYSTEM PRODUCTS														
12.8006		FUEL SYSTEM PRODUCTS														
	23515125	PROCESSOR ASSY., FUEL PRO 380 NO HEAT	1									1				
	23519956	PROCESSOR ASSY., FUEL PRO 380 NO HEAT CHROME		1												
	23514047	PROCESSOR ASSY., FUEL PRO 380 12V HEAT			1								1			
	23521049	PROCESSOR ASSY., FUEL PRO 380 12V W/GROUND				1										
	23516638	PROCESSOR ASSY., FUEL PRO 380 24V HEAT					1							1		
	23519957	PROCESSOR ASSY., FUEL PRO 380 12V W/FLUID HEAT						1							1	
	23519724	PROCESSOR ASSY., FUEL PRO 380 24V W/FLUID HEAT							1							1
	23521056	PROCESSOR ASSY., FUEL PRO 380 12V HEAT W/IF SENSOR								1						
	23520907	PROCESSOR ASSY. FUEL PRO 380 12V/120V HEAT									1					
	23516639	KIT, FUEL PRO 380E NO HEAT W/O DI- VERTER CAP										1				
	23516640	KIT, FUEL PRO 380E 12V HEAT W/O DIVERter CAP											1			
	23516641	KIT, FUEL PRO 380E 24V HEAT W/O DIVERter CAP												1		
	23519239	KIT, FUEL PRO 380F 12V W/O DI- VERTER CAP													1	
	23519725	KIT, FUEL PRO 380 24V FLUID HEAT W/O DIVERter CAP														1
	23519934	STUD, 13/16"-12, 7/8"-14	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	23514049	ELEMENT & GROMMET ASSY. 380 (USE W/23514051 KIT)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	23514051	KIT, W/CAP & BOWL O-RINGS	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	23516794	BRACKET, FUEL PRO 380 MOUNT										1	1	1	1	1
	23516796	U-CLAMP ASSY., FUEL PRO 380										2	2	2	2	2
	23514060	SPRING, FUEL PRO 380	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	23516795	U-BOLT, FUEL PRO 380										2	2	2	2	2
	23514048	COVER, CLEAR FUEL PRO 380	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	23514061	COLLAR, FUEL PRO 380	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	23516797	WIRE HARNESS, FUEL PRO 380											1	1	1	1
	23517429	TEE, 1/4"NPTF										1	1	1		
	23514043	KIT, W/CAP & SEAL RING	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	23519958	CIRCUIT BREAKER, FUEL PRO 380													1	1
	23519943	* VALVE, CHECK INLET (23519966)	1	1								1				
	23519944	* VALVE, CHECK THERM CONTROL IN- LET (23519967)			1		1	1	1	1	1		1	1	1	1
	23519959	TERMINAL, BUTT SPLICE FUEL PRO 380													1	1
	23521064	* VALVE, CHECK THERM CONTROL W/GRD INLET (23521066)				1										
	23518327	VALVE ASSY., DRAIN FUEL PRO 380	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	23519960	FITTING, PIPE TO HOSE FUEL PRO 380													2	2
	23517427	HEATER, FUEL PRO 380 12V			1	1		1					1		1	
	23517428	HEATER, FUEL PRO 380 24V					1		1					1		1
	23521060	HEATER, FUEL PRO 380EE 120V									1					
	23517426	KIT, W/THERMOSWITCH & TY-RAP			1	1	1	1	1	1			1	1	1	1
	23517425	HARNESS, FUEL PRO 380 12V/24V			1		1	1	1	1			1	1	1	1
	23521061	HARNESS, FUEL PRO 380 12V GROUNDED				1										

FIG	PART NO.	12.8000A SUPPLIES/MAINTENANCE PRODUCTS	A	B	C	D	E	F	G	H	I	J	K	L	M	N
		NAME AND DESCRIPTION														
		(Note: Assemblies are shown for component reference only.)														
	12.8006	FUEL SYSTEM PRODUCTS														
		(cont.)														
	23521065	HARNESS, FUEL PRO 380E WIF SEN- SOR								1						
	23521062	SENSOR, WATER IN FUEL								1						
		* NOT SERVICED, USE PART NUMBER SHOWN IN PARENTHESES AND 23518326 REPAIR KIT.														

DETROIT DIESEL

CORPORATION



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