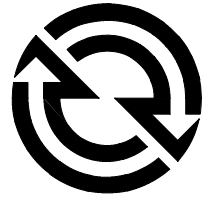


Engine Parts

DETROIT DIESEL



Diesel Engine

Generator Model:

300-350 kW

Engine Series:

60

Engine Models:

6063HK35

6063MK35

6063TK36

6063TK35

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350 kW (60 Hz)	6063HK35	4-1
350 kW	6063TK35	5-1

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of all information, engine modifications or subsequent engineering changes or enhancements may cause certain data to be superseded or rendered obsolete.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.

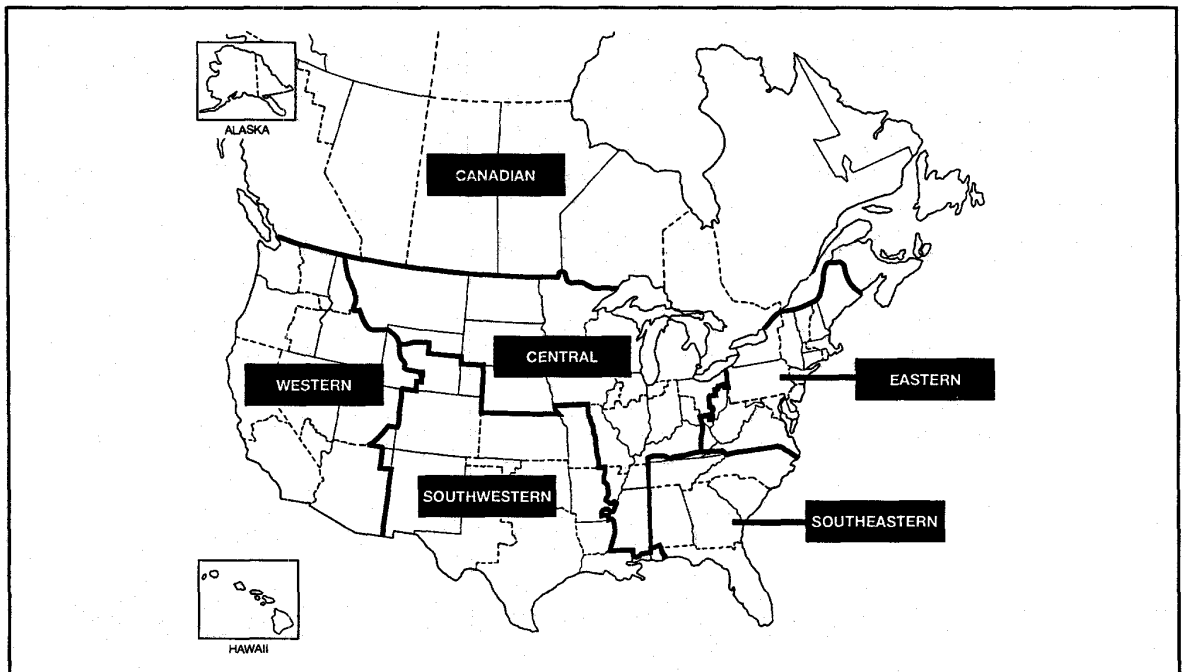
IMPORTANT ENGINE INFORMATION

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.

CUSTOMER ASSISTANCE

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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Fax: (65) 861-1618

PACIFIC REGION

Australia
47 First Street
Black Rock, Victoria 3193
Phone: (61) 9589-0484
Fax: (61) 9589-6858

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The Netherlands
Ridderpoort 9
P.O. Box 4161
2980 GD Ridderkerk
The Netherlands
Phone: (31) 1804-10208
Fax: (31) 1804-62062

MEXICO

Detroit Diesel-Allison de Mexico
Av. Santa Rosa 58
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

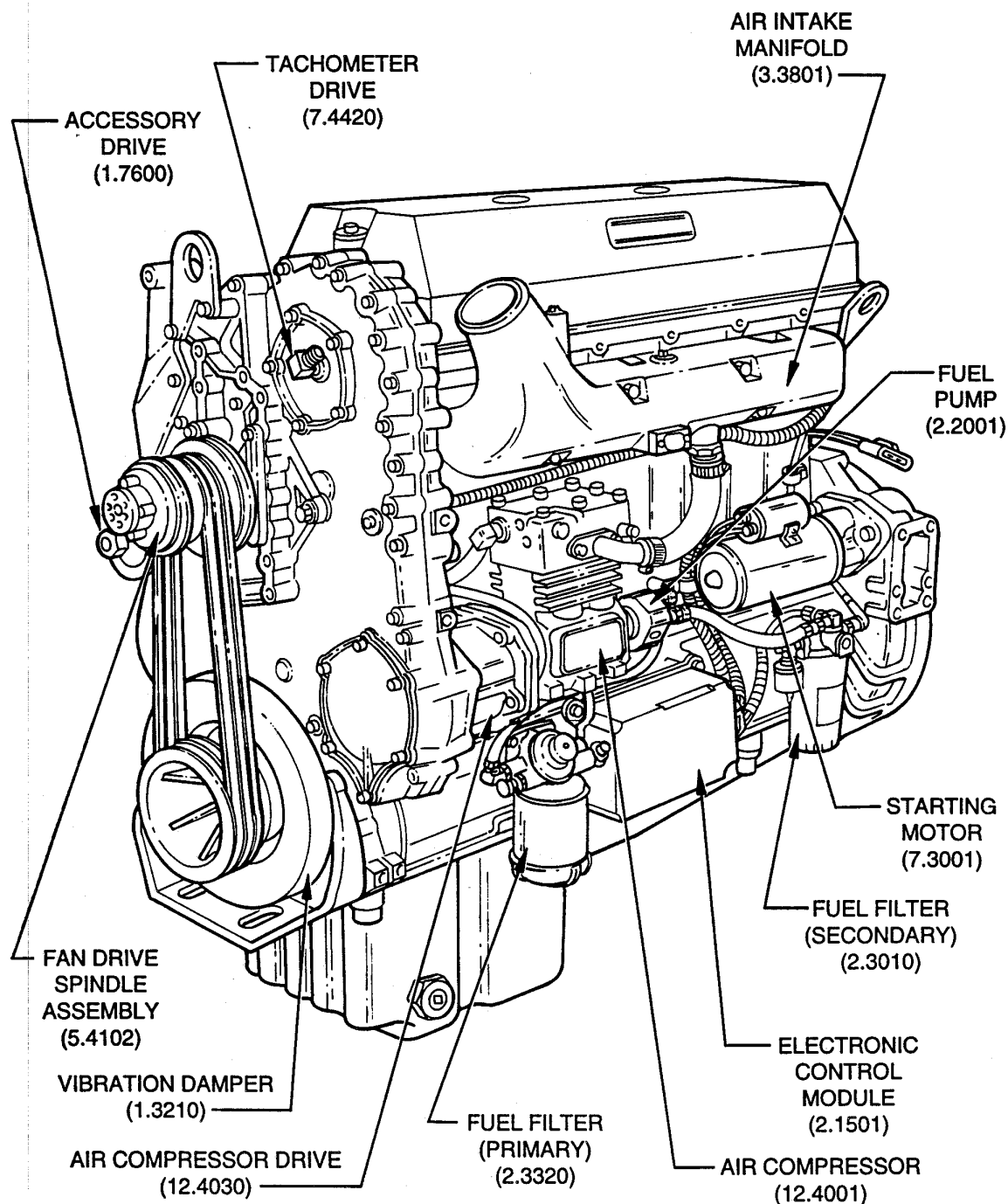
PART NAME	GROUP NO.	PART NAME	GROUP NO.
CLIP, STRAINER TO FUEL PUMP	2. 5070A	DRIVE GEAR, AIR COMPRESSOR DRIVE ASSY.	12.4072A
CLIP, TURBOCHARGER OIL RETURN TUBE	3. 5507A		
CLIP, TURBOCHARGER OIL SUPPLY TUBE	3. 5502A	E	
CLIP, WATER BYPASS TUBE	5. 2190C	ELBOW, TURBOCHARGER AIR INLET	3. 1259A
CLIP, WATER 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

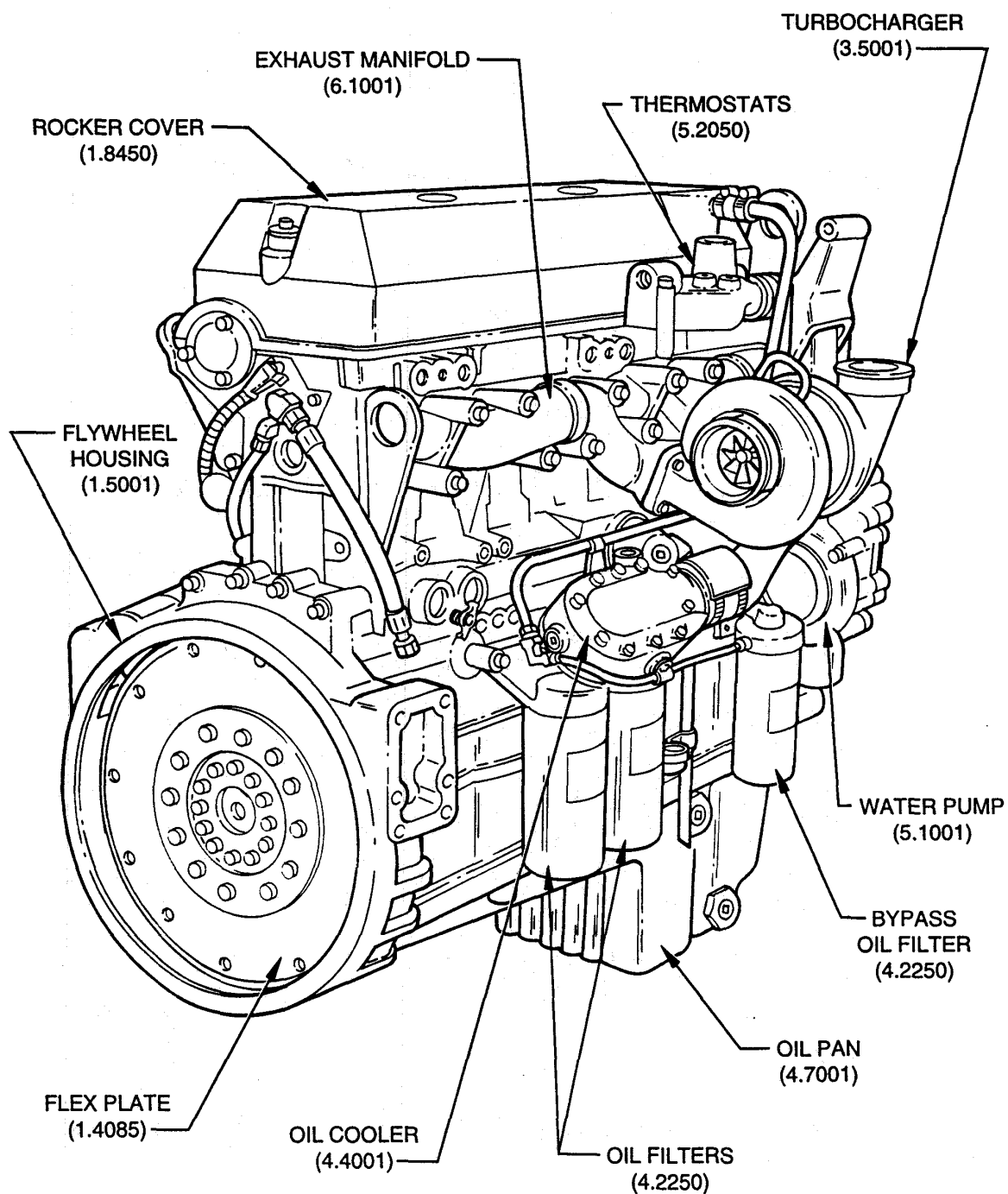
PART NAME	GROUP NO.	PART NAME	GROUP NO.
ISOLATOR, ROCKER COVER BOLT	1. 8461A		
J		O	
JACOBS BRAKE CYLINDER	1. 8070	OIL, ENGINE LUBRICATING	12.8025A
		OVERHAUL KIT, FUEL PUMP	2. 2004
		OVERHAUL KIT, OIL PUMP	4. 1003A
K		P	
KIT ENGINE OVERHAUL	1. 1006	PAINT, ENGINE TOUCH-UP	12.8001A
KIT FRESH WATER PUMP	3. 7180	PAN, OIL	4. 7001A
KIT WASTEGATE ACTUATOR	3. 5004A	PANEL, CONTROL	7. 7470B
KIT, CONNECTING ROD BEARING AND GASKET	1. 6095	PANEL, INSTRUMENT	12.8300A
KIT, COOLANT ANALYSIS	12.8290A	PIN, ALIGNMENT	2. 2012
KIT, COOLANT LEVEL SENSOR	2. 1670B	PIN, PISTON	1. 6140
KIT, CYLINDER LINER AND SEALS	1. 6181	PIPE ASSY, BREATHER	4. 8001A
KIT, ENGINE ADAPTATION	1. 4074A	PIPE, OIL PUMP INLET	4. 1510B
KIT, EPROM STABILIZER	2. 1502B	PIPE, OIL PUMP OUTLET	4. 1580B
KIT, FILTER MAINTENANCE-FUEL/OIL	12.8005A	PISTON KIT	1. 6110
KIT, FUEL ANALYSIS	12.8293A	PLATE ASSY., ELECTRONIC DISTRIBUTOR UNIT COLD	2. 1520B
KIT, GENERATOR BRACKET TENSIONER & BELTS	7. 1940A	PLATE, CAM AND BALANCE SHAFT THRUST	1. 7070
KIT, JACOBS BRAKE FIELD	1. 8073	PLATE, FLYWHEEL FLEXIBLE COUPLING	1. 4085A
KIT, LOWER ENGINE BEARINGS AND GASKETS	1. 3003	PLUG SPARK	7. 8700C
KIT, OIL ANALYSIS	12.8291A	PLUG, BREATHER HOLE	4. 8043A
KIT, OIL FILL/DRAIN	4. 5090A	PLUG, OIL COOLER BYPASS VALVE	4. 4160A
KIT, REPOWER CONNECTOR AND TERMINAL	2. 1755B	PLUG, OIL PAN DRAIN	4. 7080A
KIT, TUBING	12.8390A	POWER TAKEOFF ASSY.	8. 1001A
KIT, TURBOCHARGER REPAIR	3. 5008A	PROM AND CARRIER ASSY., ELECTRONIC CONTROL	2. 1505B
KITS, SERVICE (ALL)	12.8715C	PULLEY AND HUB ASSY., FAN	5. 4015A
L		PULLEY, ACCESSORY DRIVE	1. 7605B
LAMP, INSTRUMENT PANEL	12.8360A	PULLEY, CRANKSHAFT	1. 3280C
LCD DISPLAY ASSEMBLY	7. 7701C	PULLEY, GENERATOR	7. 1500A
LEVER CONTROL, GEAR AND THROTTLE	7. 7430B	PUMP ASSY., FRESH WATER	5. 1001
LOCK, EXHAUST VALVE SPRING	1. 8370	PUMP ASSY., FUEL	2. 2001
LOCKRING, ACCESSORY DRIVE	1. 7650B	PUMP ASSY., HYDRAULIC	12.5001A
LUBRICATING COMPOUND THREAD	12.8110A	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		
TUBE, OIL FILTER INLET	4. 3001A		
TUBE, OIL FILTER OUTLET	4. 3020A		
TUBE, STRAINER TO FUEL PUMP	2. 5050A		
TUBE, TURBOCHARGER OIL RETURN	3. 5505A		
TUBE, TURBOCHARGER OIL SUPPLY	3. 5500A		
TUBE, WATER BYPASS	5. 2160C		
TUBE, WATER PUMP TO OIL COOLER	5. 3400B		
TURBOCHARGER	3. 5001A		
		W	
		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: 06R0436083

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		
23522981	BLK ASSY CYL TLC W/PSTN CLG CVRS & 14MM F/W HOLES	1
BLOCK, CYLINDER		
23506222	BOLT, M8 X 1.25 X 20 (12.9001)	6
23522437	COVER PSTN CLG NOZZLE HOLE	6
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
8929124	BOLT, M20 X 178.0	14
8929125	WASHER, SPECIAL	14
8929276	CAP, MAIN BEARING (UNSLOTTED)	7
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
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.		

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PART #	NAME AND DESCRIPTION	QUANTITY
1.2000	- CYLINDER HEAD	
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 USE		
D 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 (NON-ARTICULATED STEEL PISTON)	AR
23519905	LOWER ENGINE BEARING AND GASKET 47MM .010US (NON-ARTICULATED STEEL PISTON)	AR
23519906	LOWER ENGINE BEARING AND GASKET 47MM .020US (NON-ARTICULATED STEEL PISTON)	AR
23522460	LOWER ENGINE BEARING AND GASKET 47MM (ARTICULATED STEEL PISTON)	AR
SEAL, CRANKSHAFT OIL-FRONT		
NOTE	SEAL (REFER TO 1.3166 IN 1.3000A)	AR
SEAL, CRANKSHAFT OIL-REAR		
NOTE	SEAL (REFER TO 1.5004 IN 1.5000A)	AR
SLEEVE, CRANKSHAFT REAR OIL SEAL		
NOTE	SLEEVE (REFER TO 1.5012 IN 1.5000A)	AR
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 UNDERSIZE (THRUST)	AR
8929682	SHELL SET, .508MM UNDERSIZE (THRUST)	AR
8929683	SHELL SET, .762MM UNDERSIZE (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		

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PART #	NAME AND DESCRIPTION	QUANTITY
1.3000	- CRANKSHAFT, OIL SEALS AND STABILIZERS	
8929124	BOLT, M20 X 178.0	14
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 WARP AROUND	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

DETROIT DIESEL
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PART #	NAME AND DESCRIPTION	QUANTITY
1.3000C - CRANKSHAFT PULLEY		
23504106	PULLEY ASSY., C/S FRT (4 GROOVE, 188.0MM DIA.)	1
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		
23522643	HOUSING ASSY., FLYWHEEL #1 AL 14MM BOLT HOLES	1
HOUSING ASSY., FLYWHEEL		
23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP	1
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
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. WH		
ICH IS NOT SOLD SEPARATELY, AND ONLY THOSE ITEMS IN 1.6001.		
NEW CRANKSHAFTS FOR WIDER CONN ROD BEARINGS AND CONN ROD ASSYS. MUST BE USE		
D 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 USE		
D 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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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
1.8000 - VALVE AND INJECTOR OPERATING MECHANISM		
HARNESS ASSY., INJECTOR		
23513556	HARNESS ENG EDU TO INJ DDEC III	1
ARM ASSY., EXHAUST VALVE ROCKER		
ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.		
8929550	ARM ASSY., EXHAUST	6
8929550	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
8929544	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	AR
	EMS IN 1.8135 MARKED "*" AT A QTY. OF 1)	
8929646	KIT, VLV ADJ. SCREW EXH ARMS (INCLUDES ITEMS IN 1.	AR
	8135 MARKED "=" AT A QTY.OF 1)	
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		
8929586	SPACER (01.8170)	8
VALVE, EXHAUST		
23507504	VALVE KIT (IDENTIFICATION-H)	12
	(INCLUDES SEAL IN 1.8320 AND LOCK IN 1.8370)	
VALVE, INTAKE		

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PART #	NAME AND DESCRIPTION	QUANTITY
1.8000 - VALVE AND INJECTOR OPERATING MECHANISM		
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	KIT, EUI GROOVED SOLENOID STATOR	AR
5236116	KIT, EUI SOLENOID SEALS & SCREWS	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	CLAMP	6
8929021	WASHER	6
8929393	BOLT, M10 X 1.5 X 70.0 (12.9001)	6
2.1000B - INJECTOR CONTROLS ELECTRONIC		
MODULE ASSY., ELECTRONIC CONTROL (ECM)		
R23519307	ELEC CONT MODULE DDEC IV 6 CYL-12V (MSTR)	1
23512309	BOLT M8 1.25 SHOULD 12 PT HD	4
23512307	ISOLATOR, ECM MOUNT	8
SENSOR, MAG. IDLER		
8929387	SENSOR (SRS)	1
11504986	BOLT, M8 X 1.25 X 14 MM	4
SENSOR, MAG. CRANKSHAFT		
8929388	SENSOR (TRS)	1
11504986	BOLT, M8 X 1.25 X 14 MM	1
SENSOR, OIL, FUEL OR COOLANT TEMPERATURE		
23518092	SENSOR ASSY., OIL WATER FUEL & AIR TEMPERATURE	1
SENSOR, AIR TEMPERATURE		
23515250	SENSOR ASSY., AIR TEMP PLSTC DDEC III	1
11503454	BOLT, M10 X 1.5 X 20.0	1
SENSOR, COOLANT LEVEL		
23514708	SENSOR ASM COOL TEMP DDEC III	1
COVER, INJECTOR HARNESS		
8929508	COVER	1
HARNESS, ENGINE SENSORS TO DISCONNECT		
23513558	HARNESS ENG SENSOR DDEC III	1
5101020	STRAP, NYLON (2.5255)	9
8929534	CLIP	1
11509511	BOLT, M8 X 1.25 X 20 MM	2
TRIP RECORDER ANALYSIS CONTROL SYSTEM		
R23515448	REMANUFACTURED 23515448	AR
R23515649	REMANUFACTURED 23515649	AR
R23515668	PRO DRIVER PETERBILT FLUSH MT	AR
R23515669	PRO DRIVER KENWORTH FLUSH MT	AR
R23515670	PRO DRIVER FREIGHTLINER FLUSH MT	AR
R23515671	PRO DRIVER VOLVO FLUSH MT	AR
R23515672	PRO DRIVER FORD FLUSH MT	AR
R23516428	PRO DRIVER KENWORTH SURFACE MT	AR
23515448	PRO DRIVER DETROIT DIESEL FLUSH MT	AR
23515649	PRO DRIVER DETROIT DIESEL SURFACE MT	AR
2.2000 - FUEL PUMP		
PUMP ASSY., FUEL		
SEE ASSEMBLY BREAKDOWN PAGE A1.		

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2.2000 - FUEL PUMP		
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
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

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PART #	NAME AND DESCRIPTION	QUANTITY
2.2000 - FUEL PUMP		
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
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		
TURBO BOOST SENSOR MAY BE SHOWN IN 2.1000B INJECTOR CONTROLS ELECTRONIC TYPE UNDER (2.1650).		
16070629	SENSOR, DDEC 2 & 3	1
5182977	RING, SEAL (3.3055)	1
11514146	BOLT, M5X.8X30.0 MM	2
3.5000A - TURBOCHARGER		
TURBOCHARGER		
23523197	TURBOCHARGER ASSY., 1.34 A/R	1
8929169	WASHER (12.9190)	4
11506101	NUT, M10 X 1.5	4
CONNECTOR, TURBOCHARGER EXHAUST INLET		
23514035	SPACER-PLATE TURBO DINA S50	1
GASKET, TURBOCHARGER EXHAUST INLET CONNECTION		
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		
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
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		
23508247	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
4.5000A - OIL FILLER		
TUBE, OIL FILLER		
3290750	HOSE, 1.25"X3.26"L.(5120022)	1
5104958	CLAMP, 1 1/2"-2" CLAMPING RANGE (12.9660)	2
23515408	TUBE ASM 312.0 LG SPL FLX/PITT S50	1
23513585	TEE, 1" PIPE STREET	1
5101023	CONNECTOR, 1 1/4" HOSE; 1" PIPE (3.5438)	1
5147753	CLIP, 1.18" DIA. 1/2" BOLT (12.8534)	1
11503454	BOLT, M10 X 1.5 X 20.0	1
5114541	BRACKET (7.1585)	1
11506101	NUT, M10 X 1.5	1
CAP, OIL FILLER		
23515410	CAUTION LABEL - OIL FILL CAP S50/60	1
23520625	LABEL, OIL SNAP CAP	1
COVER, OIL FILLER HOLE		
23516970	PLATE OIL FILL CVR DCST AL S50/60	1
11509511	BOLT, M8 X 1.25 X 20 MM	4
GASKET, OIL FILLER HOLE COVER		
8929302	GASKET, 4 HOLE (4.5007)	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

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PART #	NAME AND DESCRIPTION	QUANTITY
4.8000A - VENTILATING SYSTEM		
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 23519756	BRACKET	1
23506443	CLIP, #16 HOSE 1" DIA. (4.8183)	2
11504986	BOLT, M8 X 1.25 X 14 MM	1
23505062	BOLT, M10 X 1.5 X 40 (12.9001)	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		
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 0-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 RRGRCASE SQCUT 0-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
6.2000A - EXHAUST MUFFLER AND/OR CONNECTIONS		
CONNECTION, FLEXIBLE EXHAUST		
5140347	CONNECTOR, 5.00" O.D. X 4.00"L. (6.2095)	1
23506159	CLAMP, 5.88" DIA.	1

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PART #	NAME AND DESCRIPTION	QUANTITY
7.1000A - BATTERY CHARGING GENERATOR		
GENERATOR ASSY.		
19010182	GEN CHRG AC 24V70A NG CW/CCW 21SI	1
9427945	BOLT, 1/2"-13 X 6.25" (12.9001)	1
5132715	WASHER, .53"X.94"X.12" (1.3140)	3
103323	LOCKWASHER, 1/2"	2
PULLEY, GENERATOR		
442733	BOLT, 1/2"-13 X 1.25" (12.9001)	1
5140070	PULLEY, 3.66" DIA, 2 GRVS .500" WIDE	1
102637	NUT, 1/2"-13	1
BELT, GENERATOR DRIVE		
23517835	BELT .500 X 53.00 PREM HI CAP	1
STRAP, GENERATOR ADJUSTING		
23519910	ROD, ADJ M16 X 2.0 X 265.0 L.	1
23507487	ROD, ADJ M16X2.0X381.0 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
11506101	NUT, M10 X 1.5	1
BRACKET, GENERATOR MOUNTING		
23521122	BRACKET ALTNTR LOW MT S50 TRK&INDST	1
23521132	BOLT M10 1.5 X 140.0 FLG HEX HD CTD S60	2
23515059	SPACER 19.MMO.D.X10.7MMI.D.X12.7	1
23521131	NUT M10 HEX FLANGE	2
7.3000A - STARTING MOTOR		
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		
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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Custom Parts Catalog

ENGINE DESCRIPTION

SERIAL NUMBER: 06R0674118

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 UNDERSIZE (THRUST)	AR
8929682	SHELL SET, .508MM UNDERSIZE (THRUST)	AR
8929683	SHELL SET, .762MM UNDERSIZE (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 (INCLUDES 8929333 BOLTS & DOWEL PINS IN 1.3156)	1

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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/ACSRV 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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PART #	NAME AND DESCRIPTION	QUANTITY
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
1.8480 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.		
R5235915	INJECTOR, 10MM 8-1.62 X 155 VCO	6
R5235915S	INJECTOR, 10MM 8-1.62 X 155 VCO	A/R
	PROMOTIONAL PACKAGE (SIX PACK) W/O IGL00 COOLER	
R5235915SIX		
	INJECTOR, 10MM 8-1.62 X 155 VCO	A/R
	PROMOTIONAL PACKAGE (SIX PACK) W/IGL00 COOLER	
2.1002 SERVICE KIT, INJECTOR		
5234934 OBS	KIT, EUI GROOVED SOLENOID STATOR	AR
	(OBSOLETE)	
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
	(INCLUDES 1-8928652 SEAL RING)	
11504986	BOLT, M8 X 1.25 X 14 MM	1
2.1620 SENSOR, MAG. CRANKSHAFT		
8929388	SENSOR (TRS)	1
	(INCLUDES 2-8928652 SEAL RINGS)	
11504986	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

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2.1000B	- INJECTOR CONTROLS ELECTRONIC	
2.1702	COVER, INJECTOR HARNESS	
8929508	COVER	1
2.1720	HARNESS, ENGINE SENSORS TO DISCONNECT	
23522323	HARNESS ENG SENSOR DDEC IV	1
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

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2.2000 - FUEL PUMP		
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.		
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

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

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PART #	NAME AND DESCRIPTION	QUANTITY
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		
23525464	TURBO ASSY., GTA42 1.28 A/R 102MM	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
23522601	SPACER, PLATE	1
3.5004 KIT WASTEGATE ACTUATOR		
23523120	KIT, WASTEGATED ACTUATOR 31PSI VERT MT/70 DEG FITTING (SINGLE PYPASS) GT TURBO	AR
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		
23515353	BRACKET CLIP 90DEG	1
5109000	BRACKET, CLIP	1
5145994	CLIP, 3/8" TUBE X 1/2" BOLT	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
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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PART #	NAME AND DESCRIPTION	QUANTITY
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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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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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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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 CHRG 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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Custom Parts Catalog

ENGINE DESCRIPTION

SERIAL NUMBER: 06R0672642

SERIES NUMBER: 60

MODEL NUMBER: 6063HK35

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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.	
23522886	BLOCK ASSY., CYL. TLC FOR ARTICULATED STL (14MM FLYWHEEL HOUSING BOLT HOLES)	1
1.1001	BLOCK, CYLINDER	
23506222	BOLT, M8 X 1.25 X 20 12 PT.	6
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
8929124	BOLT, M20 X 178.0	14
8929125	WASHER, SPECIAL	14
8929276	CAP, MAIN BEARING (UNSLOTTED)	7
8929594	PLUG, 3/8"-18 DIA. PIPE EXT. HEX. SOC.	1
1.1025	NOZZLE, PISTON COOLING	
23521375	NOZZLE ASSY., PSTN CLG ARTICULATED STL	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
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.	
23529926	HEAD ASSY., CYL POWDER METAL W/REC EXH INSERTS	1
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 USED TOGETHER TO ENSURE INTERCHANGEABILITY.	
23522887	CRANKSHAFT, 14.0L 168 STROKE	1

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PART #	NAME AND DESCRIPTION	QUANTITY
1.3000	- CRANKSHAFT, OIL SEALS AND STABILIZERS	
1.3003	KIT, LOWER ENGINE BEARINGS AND GASKETS	
23519901	LOWER ENGINE BEARING AND GASKET KIT 43MM	AR
23527914	KIT, LOWER END BRG GROOVELESS 1850 ARTIC STL	AR
1.3040	SEAL, CRANKSHAFT OIL-FRONT	
NOTE		AR
	SEAL (REFER TO 1.3166 IN 1.3000A)	
1.3060	SEAL, CRANKSHAFT OIL-REAR	
NOTE		AR
	SEAL (REFER TO 1.5004 IN 1.5000A)	
1.3066	SLEEVE, CRANKSHAFT REAR OIL SEAL	
NOTE		AR
	SLEEVE (REFER TO 1.5012 IN 1.5000A)	
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)	
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

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PART #	NAME AND DESCRIPTION	QUANTITY
1.3000A - CRANKSHAFT FRONT COVER		
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		
23525990	DAMPER, VIB CR/SHF 13.5" DIA 1 PC PA 14	1
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		
23522639	HOUSING ASSY FLYWHEEL SAE #1 14MM BOLT HOLES	1
1.5001 HOUSING ASSY., FLYWHEEL		
23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP	1
23514442	PIPE PLUG 1 1/4 7/8 TPR SQ SOCHD	1
5106899	PLUG, 3/4"-18	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. WH		
ICH IS NOT SOLD SEPARATELY, AND ONLY THOSE ITEMS IN 1.6001.		
NEW CRANKSHAFTS FOR WIDER CONN ROD BEARINGS AND CONN ROD ASSYS. MUST BE USE		
D TOGETHER TO ENSURE INTERCHANGEABILITY.		
23526051	ROD ASSY., CONNECTING DRILLED LEAD FREE	1
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 USE		
D TOGETHER TO ENSURE INTERCHANGEABILITY.		

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1.6000	- CONNECTING ROD AND PISTON	
23526141	SHELL SET, STD CONN ROD DRILLED UPR/LWR 14L	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.	
23529537	PISTON KIT, 16:1 W/PIN & RETAINERS	1
1.6115	RING SET, PISTON	
	RING SET CONSISTS OF SUFFICIENT RINGS FOR ONE (1) PISTON.	
23525573	RING SET	1
1.6140	PIN, PISTON	
23522872	PIN, PISTON STL ARTICULATED 14L	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	
23524843	KIT, LINER TOP COOLING AND SEALS	1
1.6182	CYLINDER KIT	
	A KIT INCLUDES ITEMS IN 1.6110, 1.6115, 1.6140 AND 1.6181.	
23529538	CYLINDER KIT, ART STL CUT BACK PSTN 16:1 14L	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., 12.7 L	1
8920172	DOWEL, CAMSHAFT (1.7200)	1
1.7037	COVER, CAMSHAFT BEARING CAP	
23514716	COVER RR CAMSHF S60	1
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	

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1.7000	- CAMSHAFT AND GEAR TRAIN	
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/ACSR Y 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
11509807	NUT, M12 X 1.75	3
8929336	PLATE, ADJUSTMENT	1
1.8000	- VALVE AND INJECTOR OPERATING MECHANISM	
1.8050	HARNESS ASSY., INJECTOR	
23513605	HARNESS EDU TO INJ USES 12034222 STRAIGHT SCREW TERMINAL SLOTTED	1
1.8060	ARM ASSY., EXHAUST VALVE ROCKER	
ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.		
R23523174	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.		
R23520644	ARM & RLR ASSY., INT RKR W/O OIL HOLE	6
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	
23520818	SCREW ASSY., INTAKE VALVE ADJUSTING UNITIZED 50/60 (INTAKE POSITION)	12
23520819	SCREW ASSY., EXHAUST VALVE ADJ UNITIZED 50/60 (EXHAUST POSITION)	12
23520820	SCREW ASSY., INJECTOR ADJUSTING UNITIZED 50/60 (INJECTOR POSITION)	6
23514371	NUT, 3/8"-24 HEX JAM	30
1.8160	SHAFT ASSY., ROCKER	
23513530	SHAFT ASSY., LUBRITED (INCLUDES PLUG) (NS USE 1-23524767 PLUS 3-23525734 BOLTS)	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
23525734	BOLT, M12 1.75 X 100MM L	6
1.8310	VALVE, EXHAUST	
23507504	VALVE KIT (IDENTIFICATION-H) (INCLUDES SEAL IN 1.8320 AND LOCK IN 1.8370)	12

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PART #	NAME AND DESCRIPTION	QUANTITY
1.8000 - VALVE AND INJECTOR OPERATING MECHANISM		
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
23518572	GUIDE VALVE	AR
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 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.		
5237014	(R) INJECTOR ASSY., 10MM (9-1.80 X 155)	6
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 COMMUNCIATION 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 SHOULDERS 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
	(INCLUDES 1-8928652 SEAL RING)	
11504986	BOLT, M8 X 1.25 X 14 MM	1
2.1620 SENSOR, MAG. CRANKSHAFT		
8929388	SENSOR (TRS)	1
	(INCLUDES 2-8928652 SEAL RINGS)	
11504986	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
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		

PART #	NAME AND DESCRIPTION	QUANTITY
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.	
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

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2.2000 - FUEL PUMP		
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	
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	
23524928	TURB ASSY., GT47 1.27A/R 56TRIM SCRL DN EXH TO FRT	1
3.5004	KIT, WASTEGATE ACTUATOR	
23521436	KIT TURB HOSE GT35/42	AR
23525893	KIT, WASTEGATE ACTUATOR 31PSI 56 TRIM BLW W/G 14L	AR
8929169	WASHER (12.9190)	4
11506101	NUT, M10 X 1.5	4
23522601	SPACER, PLATE	1
3.5004	KIT WASTEGATE ACTUATOR	
23525893	KIT, WASTEGATE ACTUATOR 31PSI 56 TRIM BLW W/G 14L	AR
3.5307	GASKET, TURBOCHARGER EXHAUST INLET CONNECTION	
8929529	GASKET, TURBO EXHAUST INLET	2
3.5500	TUBE, TURBOCHARGER OIL SUPPLY	
23505039	ELBOW, 90 DEG FLD 3/4 TUBE	1
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
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
5176400	BRACKET, CLIP (4.8010)	1
11509511	BOLT, M8 X 1.25 X 20 MM	1
11507036	NUT, M8 X 1.25	1

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

PART #	NAME AND DESCRIPTION	QUANTITY
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
4.2000A	- 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		
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 23505902	GASKET, ADAPTOR TO OIL COOLER HOUSING RING, SEAL BYPASS FILTER	1
4.5000A	- OIL FILLER	
4.5010 23514362	CAP, OIL FILLER LABEL-OIL FILL CAP S50/60	1
5117362	CAP, OIL FILLER	1

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4.5000A - OIL FILLER		
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	
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

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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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

DETROIT DIESEL
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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

DETROIT DIESEL

Custom Parts Catalog

ENGINE DESCRIPTION

SERIES NUMBER: 60

MODEL NUMBER: 6063TK35

METRICS AT WORK

Detroit Diesel Engines contain parts dimensioned in the metric system as well as in the customary system. Many fasteners are metric and are very close in dimension to familiar customary fasteners in the inch system. It is important to note that, during any maintenance procedures, replacement fasteners must have the same measurements and strengths as those removed, whether metric or customary.

Numbers on the heads of metric bolts and on the surfaces of metric nuts indicate their strength. Customary bolts use radial lines for this purpose, while most customary nuts do not have strength markings.



CAUTION:

Using mismatched or incorrect fasteners can lead to engine damage. In some cases, engine damage can have consequences that may result in personal injury and or vehicle/ equipment damage.

Fasteners removed from the engine should be saved for re-use in the same locations whenever possible. Where the fasteners are not satisfactory for re-use, care should be taken to select a replacement that matches the original.

For information and assistance, see your Detroit Diesel Service Outlet.

NOTE:

Metric Hardware is identified in the Parts Catalogs through its unique nomenclature. Conventional hardware can always be recognized by the inch marks ("), common to diameter and length.

GENERAL INFORMATION

Your engine serial number should be kept readily available. It can be used to identify the correct service parts, warranty information, and available extended coverage.

All engine components in this catalog are divided in to major categories, groups, and sub-groups.

Within each sub-group different designs of similar parts are shown, each being designated by a type number. The type number in one sub-group has no relationship to the same type number in another sub-group.

To locate a part, first establish the category and group where the part is used (see the Alphabetical Index or Group Nomenclature page), then, determine the type number (on earlier units the type number can be found on the engine option label). With this information, turn to the proper category and group and locate the type number at the top of the page. All parts applicable to the type are indicated by a quantity in the column under the type

AR = as required.

NS = not serviced. The serviced part will be in a note or use the like part with a quantity in the type column.

OBS = obsolete, no replacement.

ALPHABETICAL INDEX

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

The information and illustrations in this publication are based on the information in effect at the time of approval for printing. The right is reserved to make changes at any time without notice.

REMANUFACTURED PARTS

A leading E or R identifies part numbers that require the return of your old core component.

A leading E in the part number designates a new exchange part.

A leading R in the part number designates a remanufactured part.

An R preceding the part description means the part is available as an E or R part number.

ELECTRONIC PARTS CATALOGS

Speed up your parts counter and eliminate confusion. Look up parts by using your unit serial number on CD-ROM. You can receive regular Parts Catalog updates by subscribing to the POWER Service Parts CD-ROM. 2 cycle, 4 cycle or both can be sent to your location 4 time a year. In addition to the PSP CD, DDC offers 2 non-subscription Service Parts Catalogs on CD-ROM: an illustrated Custom Parts Catalog - The CPC contains information specific to your unit serial number; And a complete illustrated Service Parts Catalog by Series. Contact your local Detroit Diesel Distributor to order your CD-ROM.

YOUR PARTS ORDER WILL BE HANDLED MORE EFFICIENTLY IF YOU -

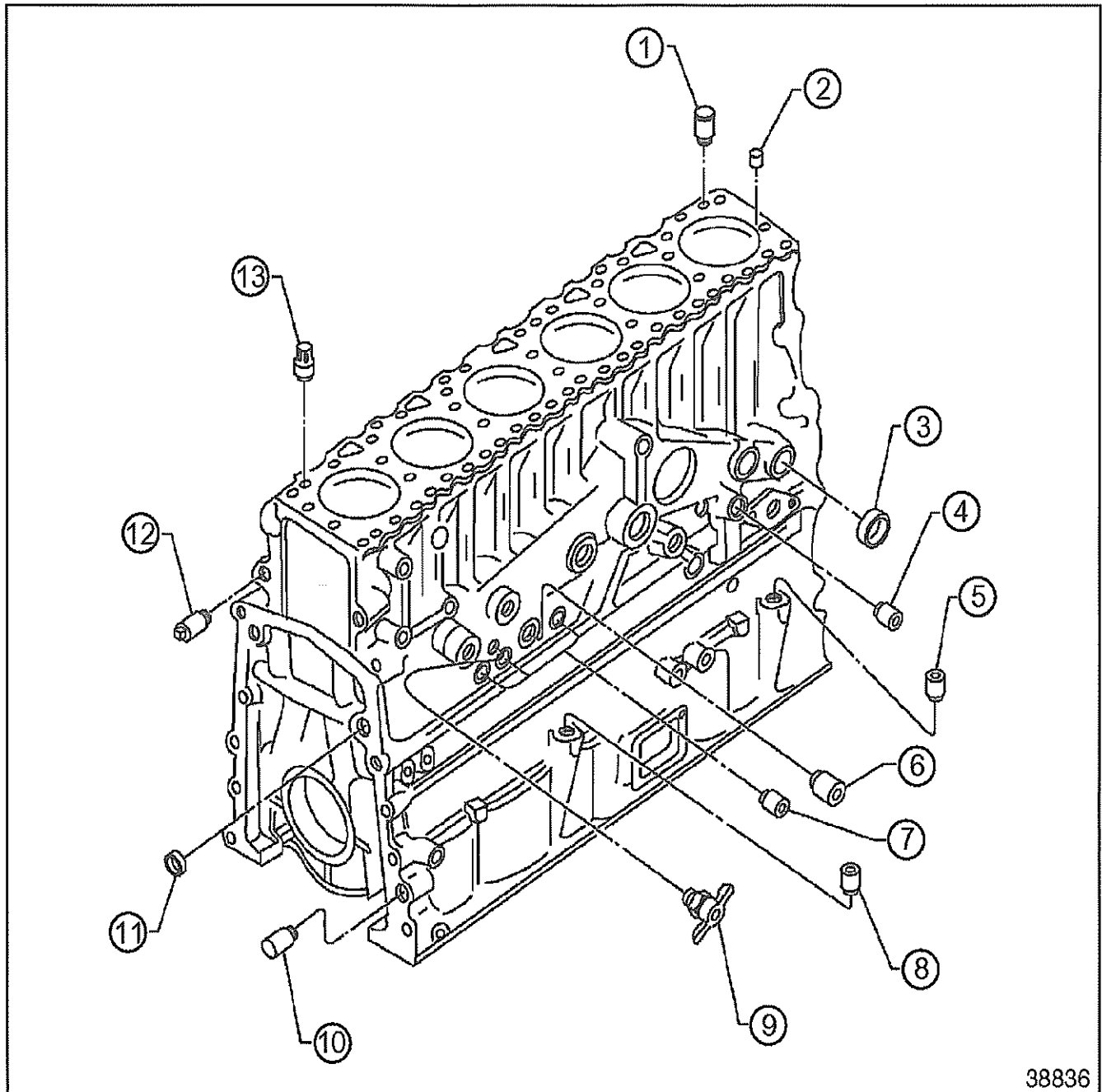
1. Provide the following information for material ordered:
 - A. Category, group and sub-group in parts catalog in which the part is specified
 - B. Quantity desired
 - C. Part Number
 - D. Complete Name
 - E. The Type number for the serial number concerned
 - F. Unit Serial Number
 - G. "TYPE" rather than "WRITE" the above information
2. Furnish complete shipping instruction. This is particularly important in case the order is not to be handled in the regular manner. Indicate whether shipment should be made via parcel post, express, air freight, etc
3. Confirm all telegraph and telephone orders immediately, clearly making any such orders "CONFIRMING" to avoid duplication of shipment of such orders.

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- 01 ENGINE (LESS MAJOR ASSEMBLIES)**
 - 01.1 CYLINDER BLOCK
 - 01.2 CYLINDER HEAD
 - 01.2A ENGINE LIFTER BRACKET
 - 01.3 CRANKSHAFT, OIL SEALS AND STABILIZERS
 - 01.3A CRANKSHAFT FRONT COVER
 - 01.3B VIBRATION DAMPER
 - 01.3C CRANKSHAFT PULLEY
 - 01.4A FLYWHEEL
 - 01.5A FLYWHEEL, HOUSING
 - 01.6 CONNECTING ROD AND PISTON
 - 01.7 CAMSHAFT AND GEAR TRAIN
 - 01.8 VALVE AND INJECTOR OPERATING MECHANISM
 - 01.8A ROCKER COVER
- 02 FUEL SYSTEM**
 - 02.1A FUEL INJECTOR/CNG CONTROLS
 - 02.1B INJECTOR, CONTROLS ELECTRONIC
 - 02.2 FUEL PUMP
 - 02.3A FUEL FILTER AND STRAINER
 - 02.5A FUEL LINES AND FUEL COOLER
- 03 AIR SYSTEM**
 - 03.3C AIR INTAKE MANIFOLD
 - 03.5A TURBOCHARGER, INTERCOOLER AND AFTERCOOLER
- 04 LUBRICATING SYSTEM**
 - 04.1A OIL PUMP
 - 04.1B OIL DISTRIBUTION SYSTEM
 - 04.1C OIL, PRESSURE REGULATOR
 - 04.2A OIL FILTER
 - 04.4A OIL COOLER AND MARINE GEAR LINES
 - 04.5A OIL, FILLER
 - 04.6A DIPSTICK
 - 04.7A OIL PAN
 - 04.8A VENTILATING SYSTEM
- 05 COOLING SYSTEM**
 - 05.1 FRESH WATER PUMP
 - 05.2B THERMOSTAT
 - 05.2C WATER BYPASS TUBE
 - 05.3B WATER CONNECTIONS
 - 05.4A FAN
- 06 EXHAUST SYSTEM**
 - 06.1A EXHAUST MANIFOLD AND/OR CONNECTIONS
 - 06.2A EXHAUST MUFFLER AND/OR CONNECTIONS
- 07 ELECTRICAL INSTRUMENTS**
 - 07.1A BATTERY, CHARGING GENERATOR
 - 07.3A STARTING MOTOR
- 11 ENGINE MOUNTING**
 - 11.1A ENGINE MOUNTING AND BASE

DETROIT DIESEL

SERIES 60



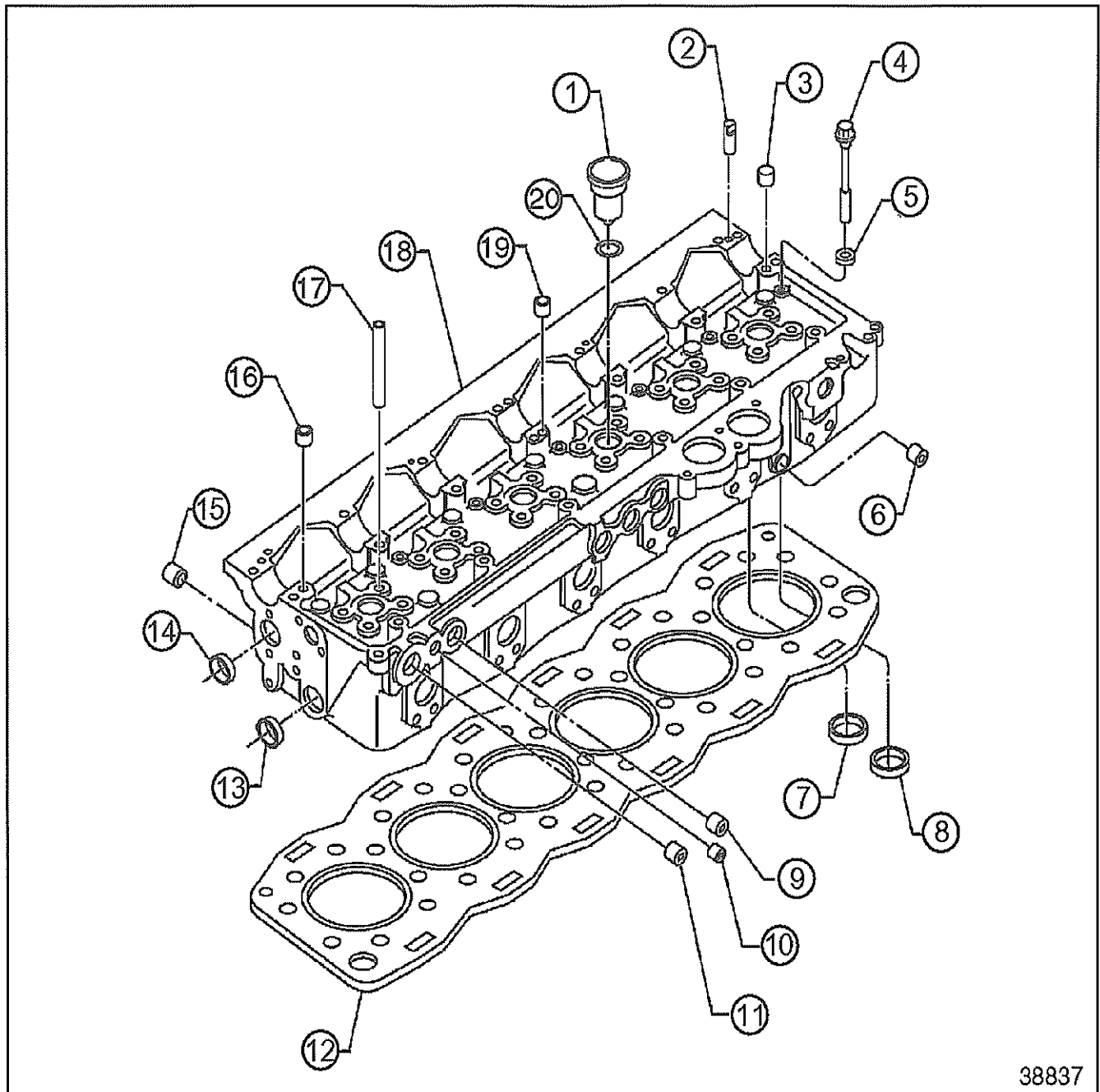
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FIG 1 of 01.1

					TYPES											
01.1 CYLINDER BLOCK					5											
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	6	6											
	01.1001	BLOCK, CYLINDER														
1:6	08922327	PLUG, 1/4" NPTF (12.9550)	4													
1:10	08929015	DOWEL PIN, 16 MM., CIRCULAR (1.1001)	1													
1:12	08929022	DOWEL PIN 16 MM., DIAMOND (1.1001)	2													
1:1	08929152	PIN, DOWEL 20.0 MM CIRCULAR	1													
1:13	08929153	PIN, DOWEL 20.0 MM DIAMOND	1													
1:7	08929432	PLUG, WEEP HOLE (SPECIAL)	6													
1:4	23509239	STUD. M12X1.75X34.0	1													
1:6	23516104	PLUG PIPE 1/4-18 HEX HD STL CTD RED	1													
	23522981	BLK ASSY CYL TLC W/PSTN CLG CVRS(14MM FLYWHEEL HOUSING BOLT HOLES)	1													
	05139988	PLUG, CUP 1" DIA. STNLS.	2													
	05139991	PLUG, 1-1/2" CUP (1.1001)	5													
	05151272	PLUG, 11/32" SPECIAL (1.8160)	1													
	08922327	PLUG, 1/4" NPTF (12.9550)	2													
	08923916	PLUG, 1/2" PIPE (12.9550)	2													
	08924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)	3													
	08929015	DOWEL PIN, 16 MM., CIRCULAR (1.1001)	1													
	08929022	DOWEL PIN 16 MM., DIAMOND (1.1001)	2													
	08929124	BOLT, M20 X 178.0	14													
	08929125	WASHER, SPECIAL	14													
	08929152	PIN, DOWEL 20.0 MM CIRCULAR	1													
	08929153	PIN, DOWEL 20.0 MM DIAMOND	1													
	08929276	CAP, MAIN BEARING (UNSLOTTED)	7													
	08929432	PLUG, WEEP HOLE (SPECIAL)	6													
	08929594	PLUG, 3/8"-18 DIA. PIPE EXT. HEX. SOC.	1													
	23506222	BOLT, M8 X 1.25 X 20 12 PT.	6													
	23522437	COVER PSTN CLG NOZZLE HOLE	6													
	01.1002	GASKET KIT, ENGINE OVERHAUL														
		<i>A GASKET KIT CONSISTS OF THE NECESSARY GASKETS FOR ONE COMPLETE ENGINE OVERHAUL.</i>														
	23512691	GASKET KIT W/SQUARE RING SEALS	AR													
	01.1025	NOZZLE, PISTON COOLING														
	23506222	BOLT, M8 X 1.25 X 20 12 PT.	6													
	23528493	NOZZLE ASSY., PISTON COOLING ARTICULATED	6													

DETROIT DIESEL

SERIES 60



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FIG 1 of 01.2

				TYPES											
01.2 CYLINDER HEAD															
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	5	0	7									
	01.2001	HEAD ASSY., CYLINDER													
	08929123	BOLT, M16 X 2 X 175 (12.9005); USE: 23530768	NS												
1:5	08929328	WASHER, 16.8" X 25.8" (12.9190)	38												
1:4	23530768	BOLT, M16 2.0 X 1.75.0 LG HEX 10.9 (12.9001)	38												
1:18	R23526844	HEAD ASSY., 14L W/PWDR METAL GUIDES CHROME VLVS1850 COMPLETE W/VALVES+SPRINGS	1												
	01.2002	GASKET KIT, CYLINDER HEAD OVERHAUL													
		<i>GASKET KIT CONSISTS OF ALL GASKETS NECESSARY TO REPLACE ONE CYLINDER HEAD.</i>													
	23526274	KIT, GASKET CYL HD RACE TRACK; USE: 23526852	NS												
	23526852		AR												
		<i>NOT SERVICED, USE 23532333 GASKET KIT AND 38-23530768 BOLTS.</i>													
	01.2010	GASKET, CYLINDER HEAD COMPRESSION													
	23522588	GASKET, CYLINDER HEADNS USE 23532298 KIT & 23530768 BOLTS @ 38; USE: 23531255	NS												
1:12	23531255	KIT, HEAD GASKET W/BOLTS S60	1												

DETROIT DIESEL

SERIES 60

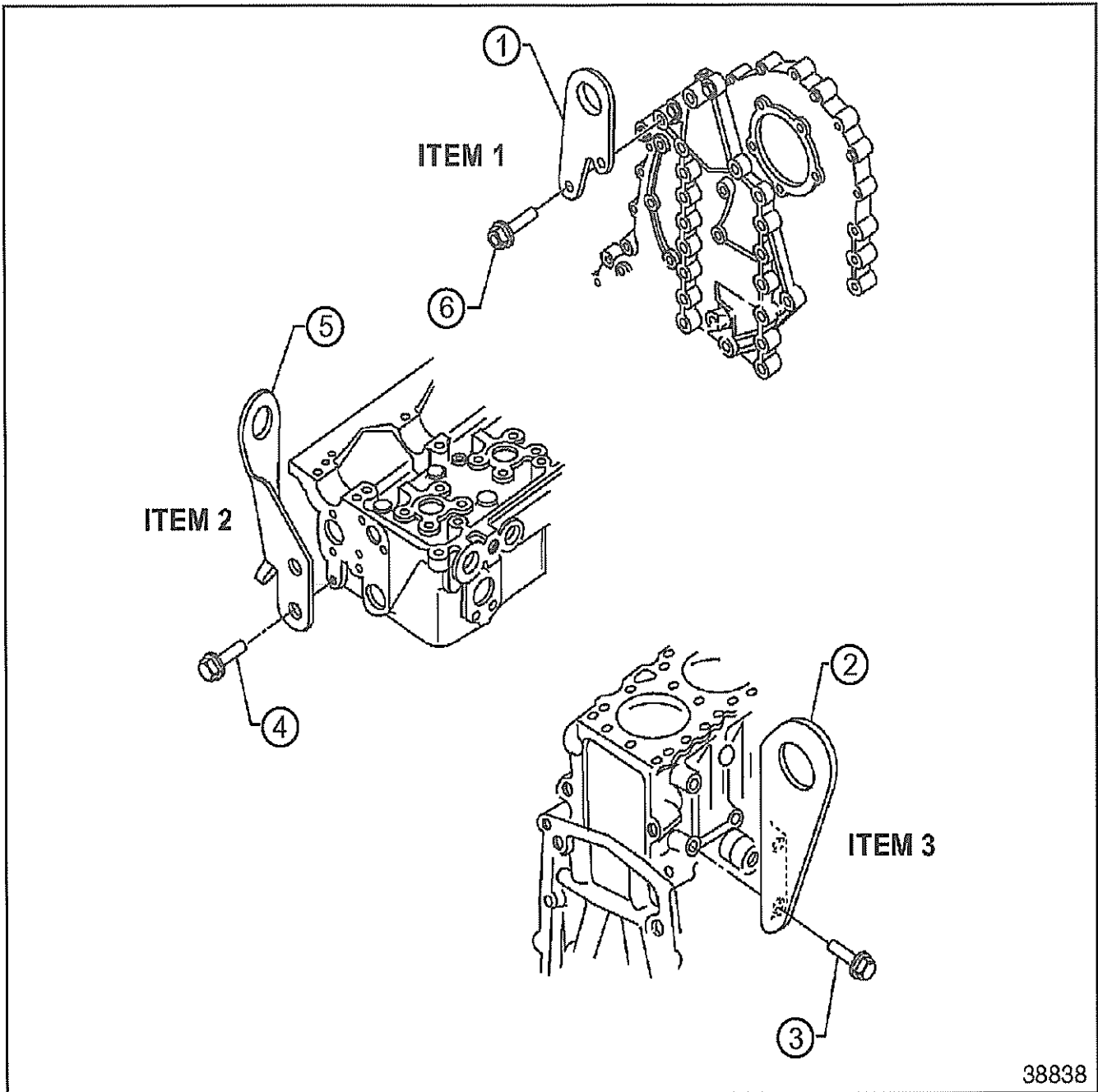
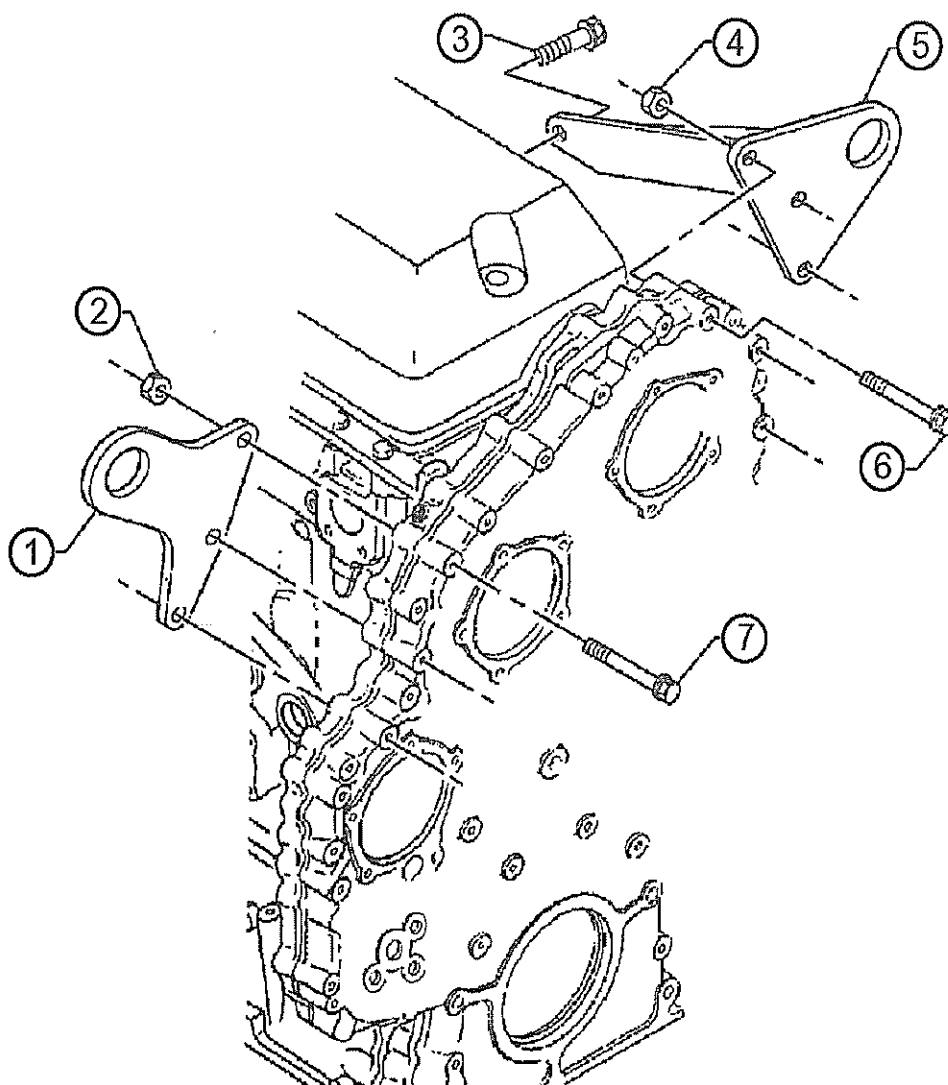


FIG 1 of 01.2A

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DETROIT DIESEL

SERIES 60



06A05 6010

38935

FIG 2 of 01.2A

				TYPES									
01.2A ENGINE LIFTER BRACKET													
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	2	6	0							
	01.2A070	BRACKET, ENGINE LIFTER-FRONT											
1:1	08929754	BRACKET (ITEM 1)	1										
1:6	11509530	BOLT, M14 X 2.0 X 40 MM	2										
	01.2A080	BRACKET, ENGINE LIFTER - REAR											
1:5	08929408	BRACKET (ITEM 2)	1										
1:2	08929638	BRACKET (ITEM 3); USE: 23518652	NS										
1:4	11509528	BOLT, M12 X 1.75 X 30 MM	5										
	23518652	BRACKET ENG LFTR RR LB HD PLATED S60	1										

DETROIT DIESEL

SERIES 60

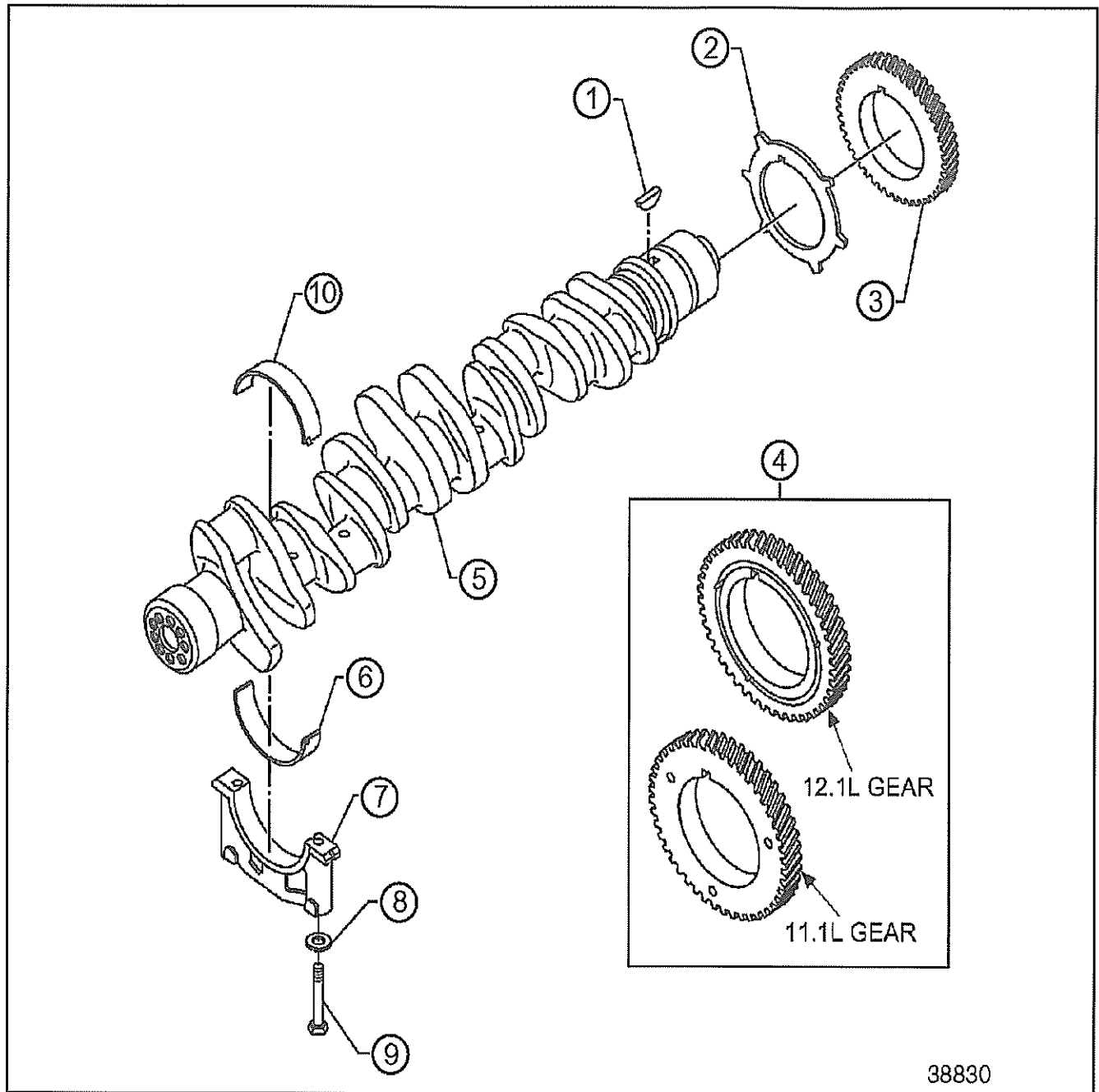


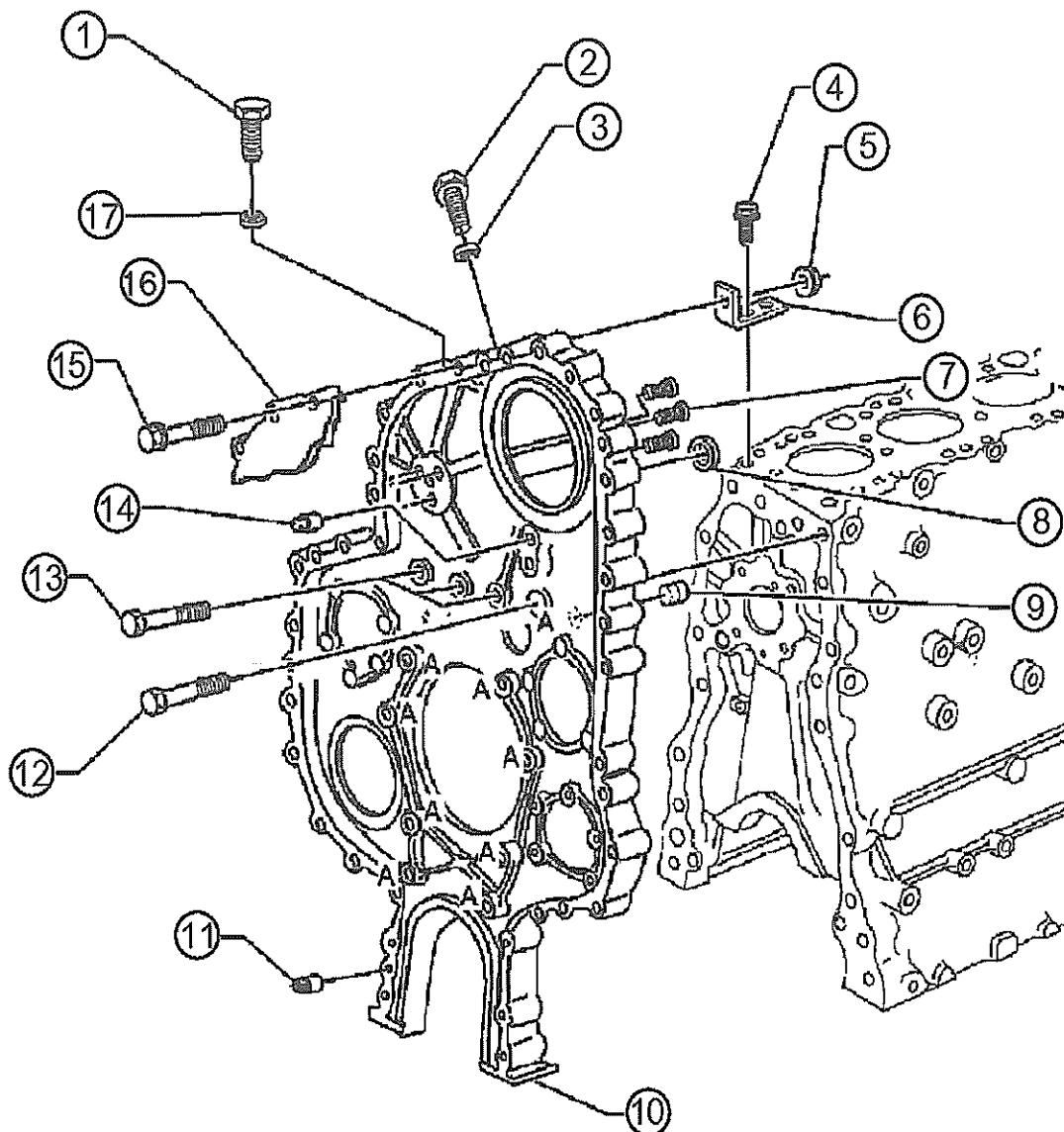
FIG 1 of 01.3

				TYPES									
01.3 CRANKSHAFT, OIL SEALS AND STABILIZERS				1									
				3									
FIG	PART NO.	NAME AND DESCRIPTION	ASSY.	1									
REF.			QTY.										
01.3001		CRANKSHAFT ASSY.											
		<i>NEW CRANKSHAFTS FOR WIDER CONN ROD BEARINGS AND CONN ROD ASSYS. MUST BE USED TOGETHER TO ENSURE INTERCHANGEABILITY.</i>											
1:5	23515598	CRANKSHAFT, 6 HOLE 12.7L(ACCOMMODATE WIDER CONN ROD BEARINGS)	1										
01.3003		KIT, LOWER ENGINE BEARINGS AND GASKETS											
	23519904	LOWER ENGINE BEARING AND GASKET 47MM(NON-ARTICULATED STEEL PISTON); USE: 23531605	NS										
	23519905	LOWER ENGINE BEARING AND GASKET 47MM .010US(NON-ARTICULATED STEEL PISTON)	AR										
	23519906	LOWER ENGINE BEARING AND GASKET 47MM .020US(NON-ARTICULATED STEEL PISTON)	AR										
	23524260	LOWER ENGINE BEARING AND GASKET 47MM(ARTICULATED STEEL PISTON 15:1/1.1MM 16.5:1); USE: 23531606	NS										
	23526280	KIT, LOWER END BRG 47MM & GASKET(MARINE ARTICULATED STEEL PISTON)	AR										
	23531605		AR										
	23531606		AR										
01.3040		SEAL, CRANKSHAFT OIL-FRONT											
	NOTE	SEAL (REFER TO 1.3166 IN 1.3000A)	AR										
01.3060		SEAL, CRANKSHAFT OIL-REAR											
	NOTE	SEAL (REFER TO 1.5004 IN 1.5000A)	AR										
01.3066		SLEEVE, CRANKSHAFT REAR OIL SEAL											
	NOTE	SLEEVE (REFER TO 1.5012 IN 1.5000A)	AR										
01.3090		SHELL, CRANKSHAFT MAIN BEARING											
		<i>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 BLOCK TYPE IN 1.1035 IF REQUIRED.</i>											
1:6	08929670	SHELL SET, STANDARD (MAIN)	6										
	08929671	SHELL SET, .254MM UNDER SIZE (MAIN)	AR										
	08929672	SHELL SET, .508MM UNDER SIZE (MAIN)	AR										
	08929673	SHELL SET, .762MM UNDER SIZE (MAIN)	AR										
	08929680	SHELL SET, STANDARD (THRUST)	1										
	08929681	SHELL SET, .254MM UNDERSIZE (THRUST)	AR										
	08929682	SHELL SET, .508MM UNDERSIZE (THRUST)	AR										
	08929683	SHELL SET, .762MM UNDERSIZE (THRUST)	AR										
01.3100		WASHER, CRANKSHAFT MAIN BEARING THRUST											
	08929085	WASHER, (UPPER THRUST ONLY)	2										
	08929697	WASHER, .127MM O.S.	AR										
	08929698	WASHER, .254MM O.S.	AR										

				TYPES											
01.3 CRANKSHAFT, OIL SEALS AND STABILIZERS				1											
				3											
FIG	PART NO.	NAME AND DESCRIPTION	ASSY.	1											
REF.			QTY.												
	01.3100	WASHER, CRANKSHAFT MAIN BEARING THRUST													
	01.3110	CAP. CRANKSHAFT MAIN BEARING													
1:7	08929276	CAP, MAIN BEARING (UNSLOTTED)		7											
	01.3140	BOLT, CRANKSHAFT MAIN BEARING CAP													
1:9	08929124	BOLT, M20 X 178.0		14											
1:8	08929125	WASHER, SPECIAL		14											
	01.3145	GEAR, CRANKSHAFT TIMING													
1:4	08929497	GEAR, RH, 82T, 133.6MM I.D. 12.7L		1											
1:1	08929808	KEY, .25"X1.375" (12.9350)		1											
1:2	23513537	WHEEL,TIMING RING (2.3145)		1											

DETROIT DIESEL

SERIES 60



06J00 6026 (1 of 2)

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FIG 1 of 01.3A

DETROIT DIESEL

SERIES 60

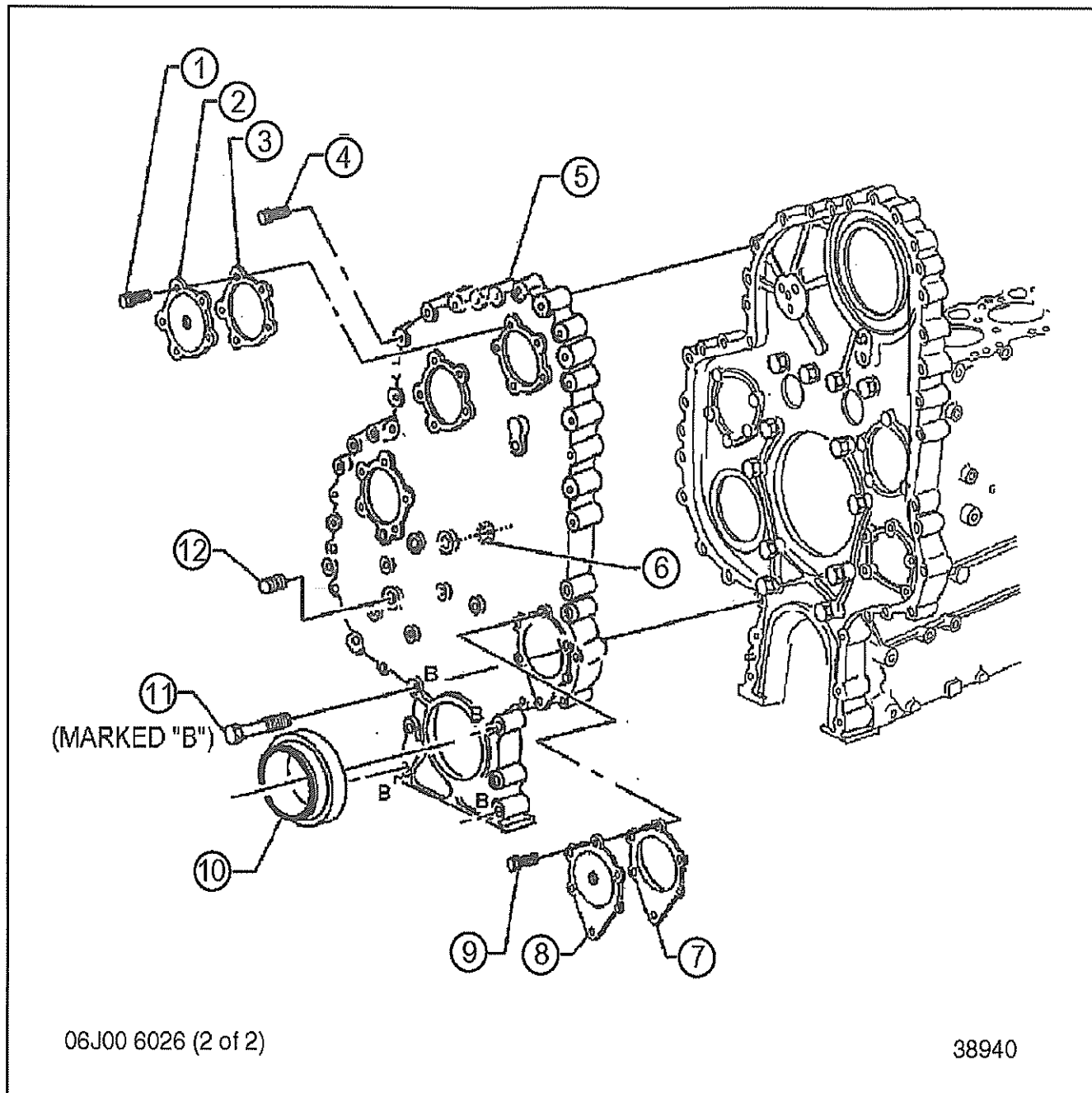


FIG 2 of 01.3A

TYPES

01.3A CRANKSHAFT FRONT COVER

FIG
REF.

PART NO.

NAME AND DESCRIPTION

ASSY.
QTY.

01.3A156

HOUSING ASSY., GEAR CASE

00181333	BOLT, 5/16"-24 X .625"	1
05155596	WASHER, 21/64" SPECIAL COPPER (4.7120)	1
05180370	WASHER, .55" I.D. COPPER (7.4969)	1
08929015	DOWEL PIN, 16 MM., CIRCULAR (1.1001)	1
08929022	DOWEL PIN 16 MM., DIAMOND (1.1001)	1
08929333	BOLT, M12 X 1.75 X 65 (SPECIAL)	3
08929740	SEAL, RING .134X.074X.480 I.D.)	1
08929760	SUPPORT (1.3160); USE: 23528306	NS
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
23505062	BOLT, M10 X 1.5 X 40	9
23505875	HOUSING ASSY., REAR MOUNT WATER PUMP(INCLUDES 8929333 BOLTS & DOWEL PINS IN 1.3156)	1
23528306	BRACKET, SUPPORT RT SI GEARCASE TO CYL HEAD	1

01.3A158

COVER, GEAR CASE

05141452	SEAL, RING (3.4143)	1
08924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)	1
11504986	BOLT, M8 X 1.25 X 14 MM	2
11509523	BOLT, M10 X 1.5 X 55 MM	14
11509525	BOLT, M10 X 1.5 X 110 MM	4
23505876	COVER, FRONT	1
23507422	GUARD, BOLT V18 DMPR & FRT CVR	1

01.3A166

SEAL, CRANKSHAFT OIL FRONT

23513485	SEAL/SLEEVE ASSY.,FRT WRAP-AROUND OVERSIZE; USE: 23518355	NS
23518355	SEAL/SLEEVE ASSY., FRONT CRANKSHAFT UNITIZED	1

01.3A191

COVER, ENGINE FRONT ACCESSORY
DRIVE

08929099	COVER, FRONT ACCESSORY	2
11504822	BOLT, M8 X 1.25 X 30	11
23517382	COVER, ACSRY REAR 6 HOLE	1

01.3A192

GASKET, ENGINE FRONT
ACCESSORY DRIVE

08929130	GASKET, UPPER RIGHT REAR & FRONT CAM ACCESS.	1
08929299	GASKET, ACCESSORY FRONT	2

DETROIT DIESEL

SERIES 60

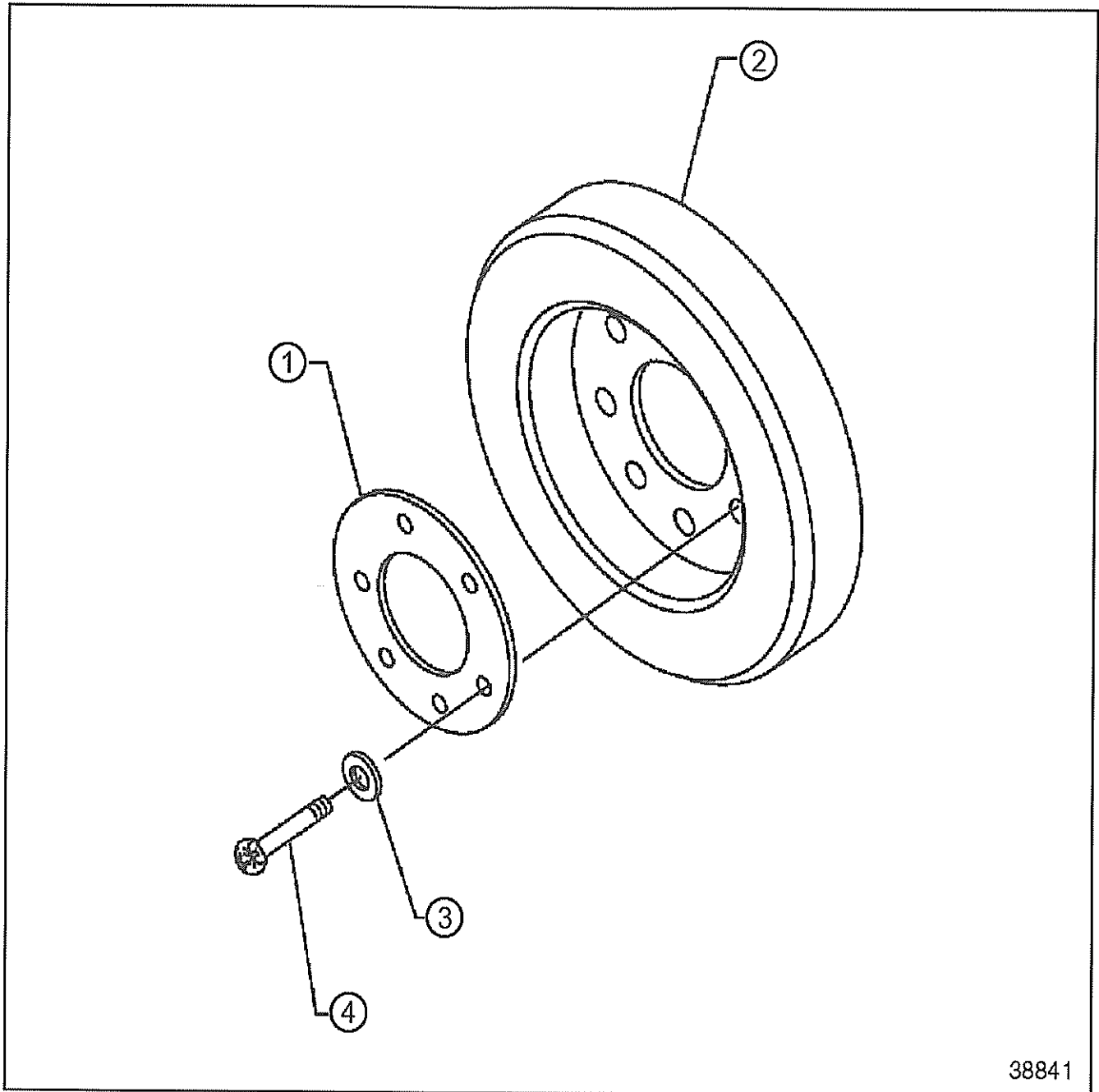


FIG 1 of 01.3B

				TYPES									
01.3B VIBRATION DAMPER													
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	2	2	1							
	01.3B210	DAMPER, VIBRATION											
1:2	23525990	DAMPER, VIB CR/SHF 13.5" DIA 1 PC PA 14	1										

DETROIT DIESEL

SERIES 60

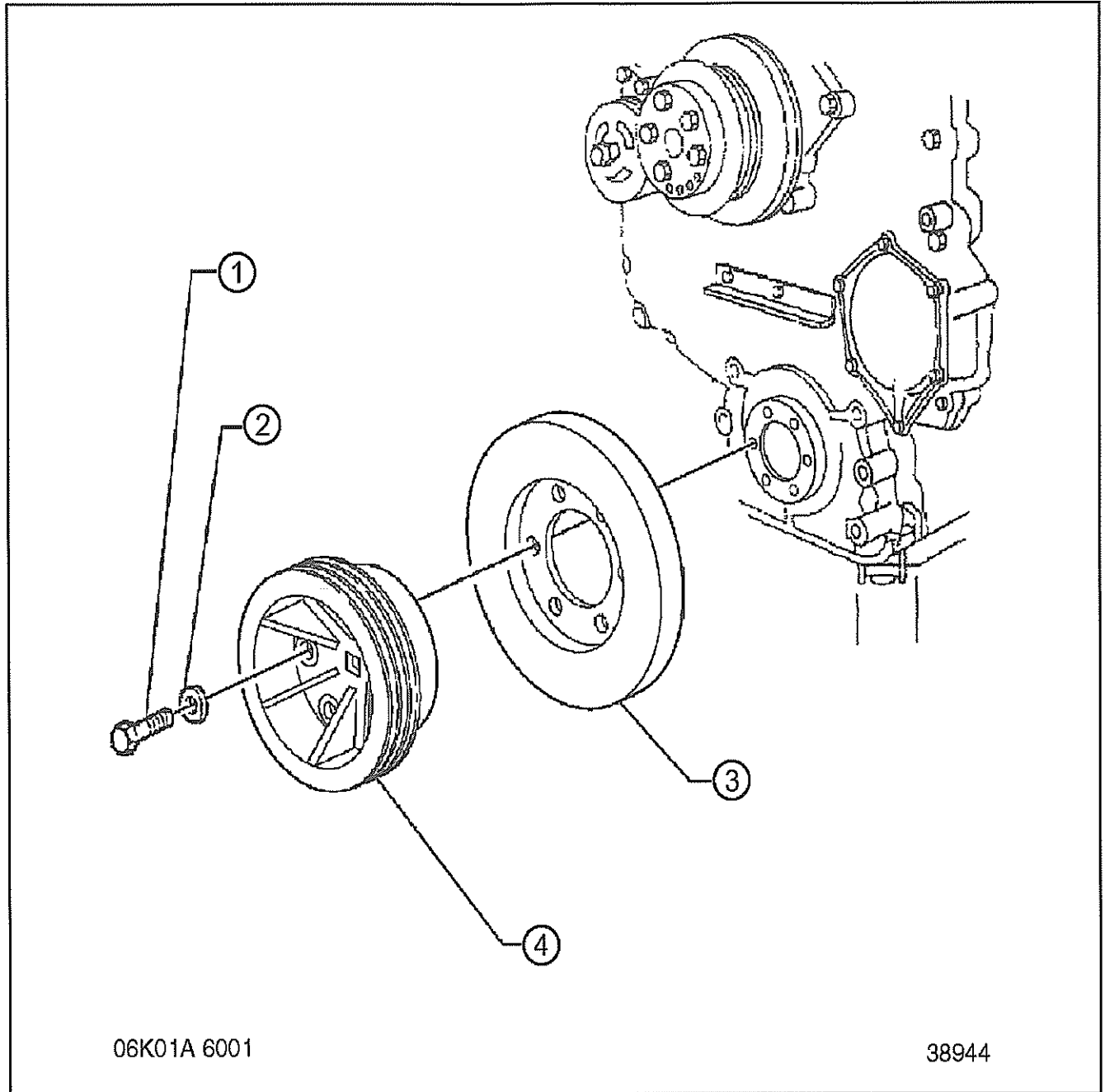
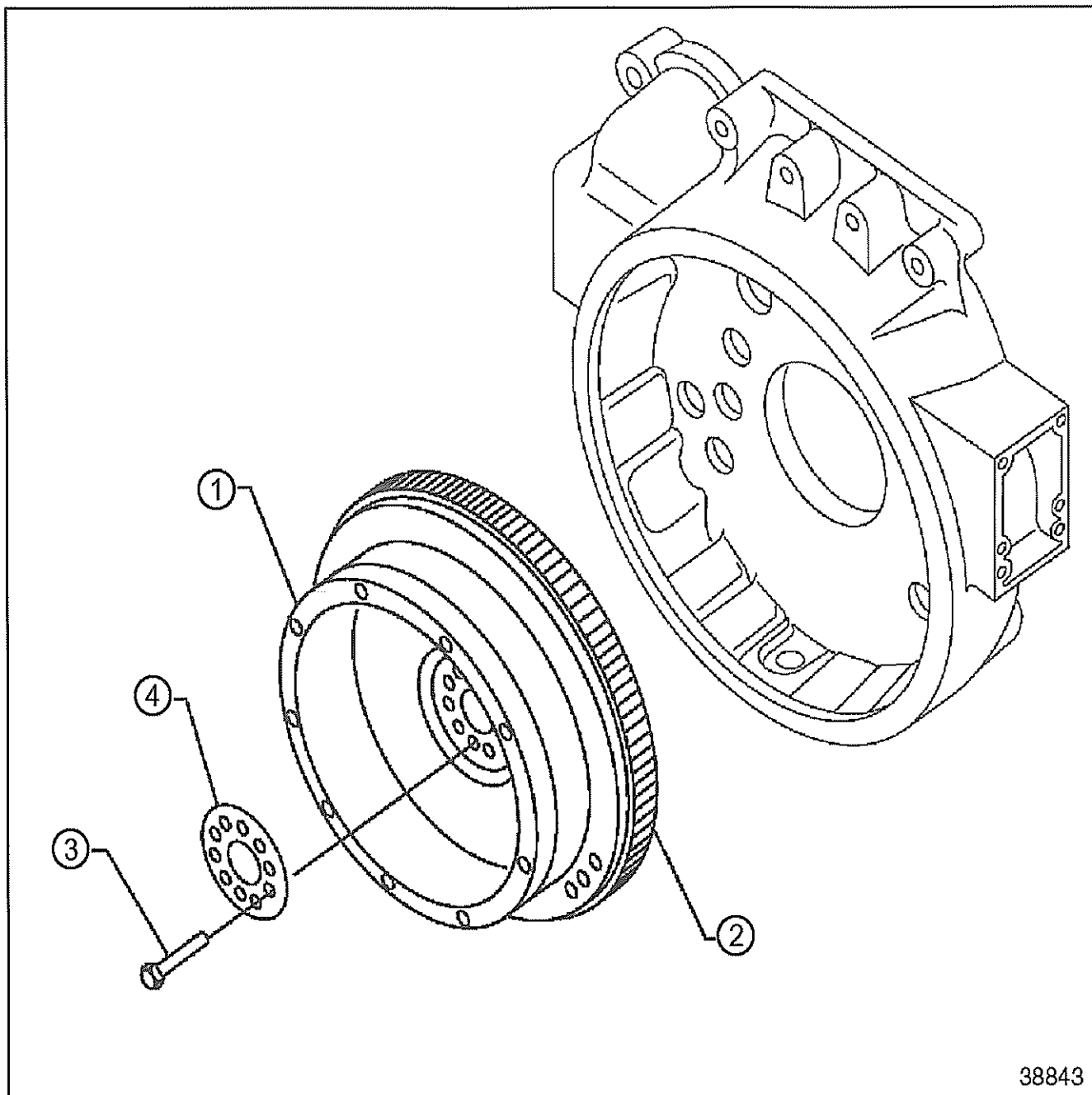
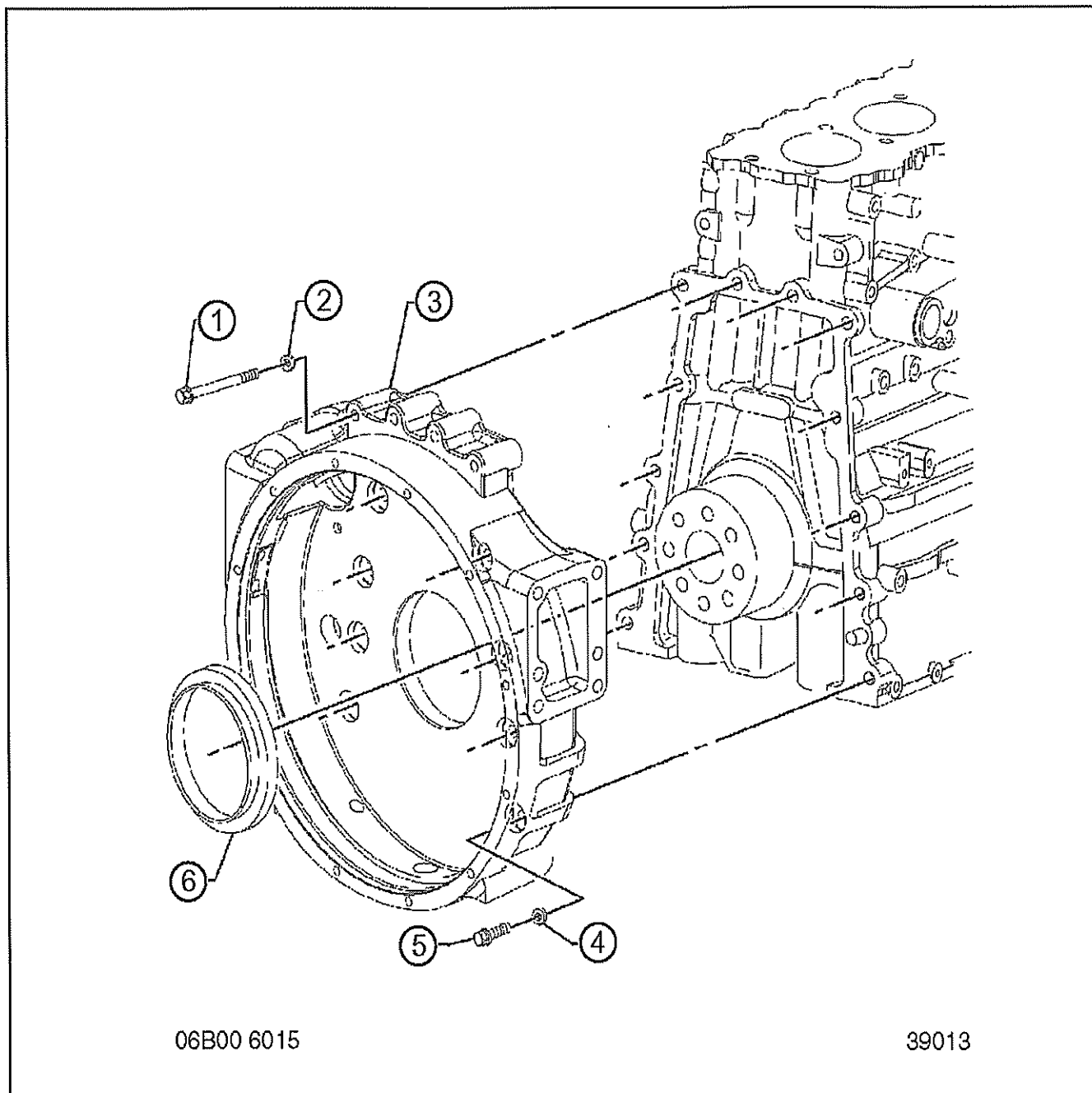


FIG 1 of 01.3C

01.3C CRANKSHAFT PULLEY				TYPES											
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	3	8	7									
	01.3C280	PULLEY, CRANKSHAFT													
1:2	05133981	WASHER, 19/32" (1.1001)	6												
1:4	08929077	PULLEY, 188.0MM O.D., 4 GROOVE (ITEM 3)	1												
1:1	08929222	BOLT, 9/16"-18 X 2 1/2"	6												

DETROIT DIESEL**SERIES 60****FIG 1 of 01.4A**

01.4A FLYWHEEL				TYPES									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	1	1	5	2						
	01.4A001	FLYWHEEL ASSY. <i>INCLUDES GEAR IN 1.4010. "C" INDICATES A CHAMFERED ASSY.</i>											
1:4	05100532	PLATE, SCUFF 12-.57" HOLES (3"ID CENTER)	1										
1:3	09410925	BOLT, 9/16"-18 X 2 1/4" (12.9001)	12										
1:1	23514751	FLYWHEEL ASSY,SAE1 TYPE 1,GMHD & 1.76	1										
	01.4A010	GEAR, FLYWHEEL RING											
1:2	05184773	GEAR, SAE #1, 118 TEETH, UNCHAMFERED	1										

DETROIT DIESEL**SERIES 60****FIG 1 of 01.5A**

01.5A FLYWHEEL, HOUSING				TYPES									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.										
	01.5A001	HOUSING ASSY., FLYWHEEL		9									
				0									
				1									
1:2	23522326	WASHER		12									
1:5	23522327	BOLT M14 2.00 X 50.0 LG HEX HD		8									
1:1	23522329	BOLT M14 2.00 X 95.0 LG HEX HD		4									
1:3	23522639	HOUSING ASSY FLYWHEEL SAE #1 14MM BOLT HOLES		1									
	23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP	1										
	23514442	PIPE PLUG 1 1/4 7/8 TPR SQ SOCHD	1										
	5106890	PLUG, 3/4"-16 (PLASTIC)	1										
	01.5A004	SEAL, CRANKSHAFT OIL											
1:6	23519651	SEAL, REAR CR/SHF		1									

DETROIT DIESEL

SERIES 60

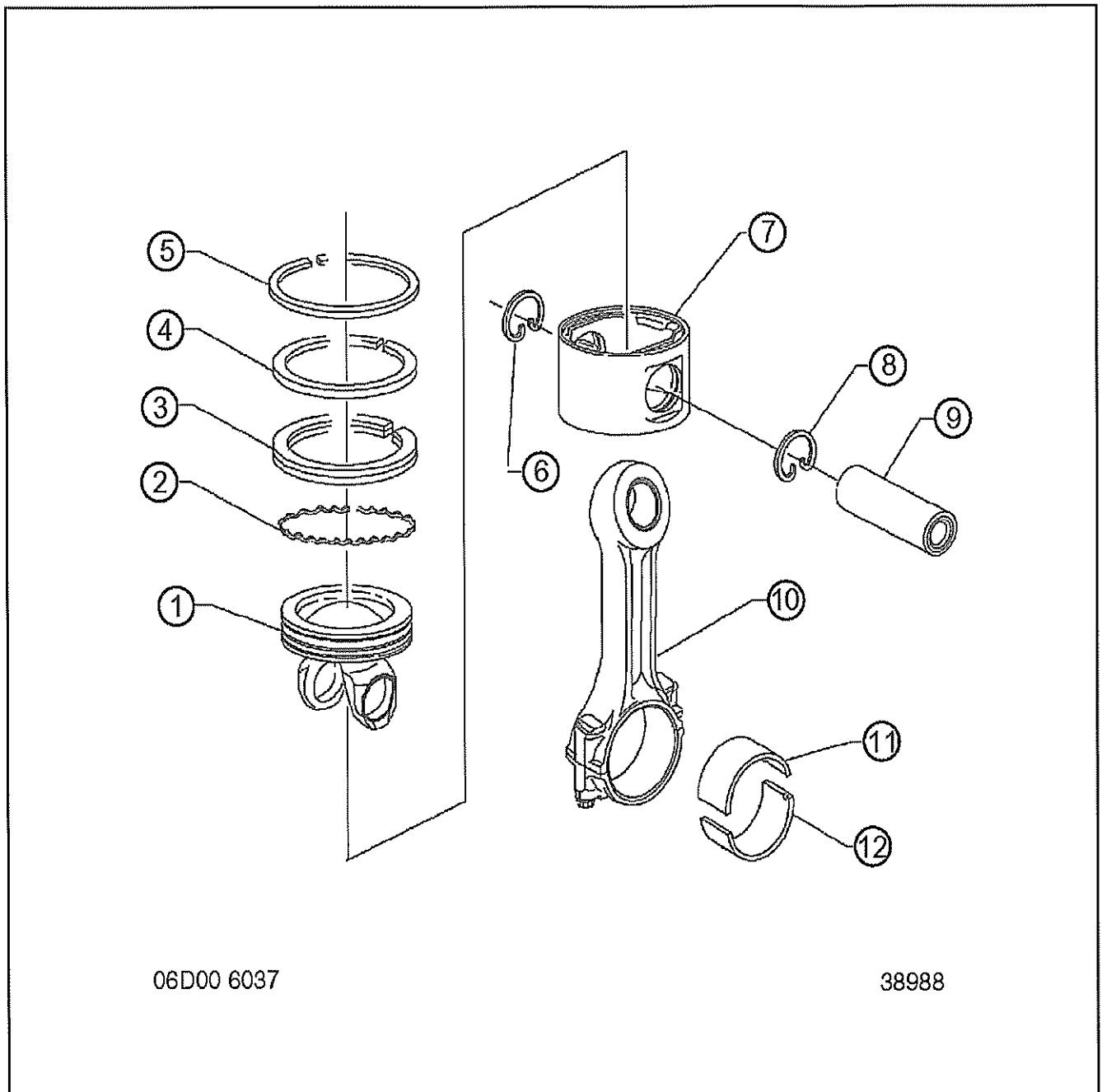


FIG 1 of 01.6

DETROIT DIESEL

SERIES 60

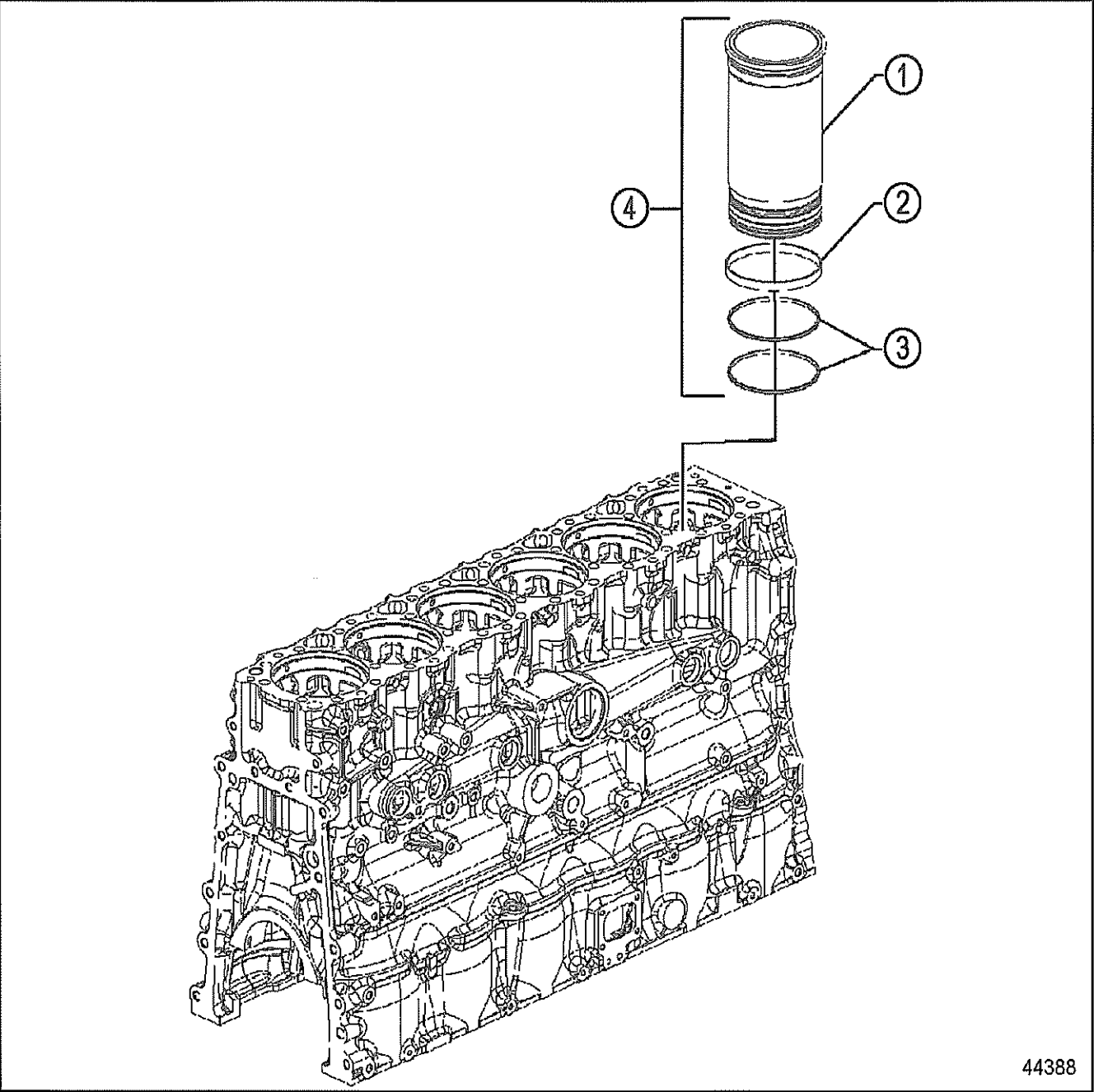
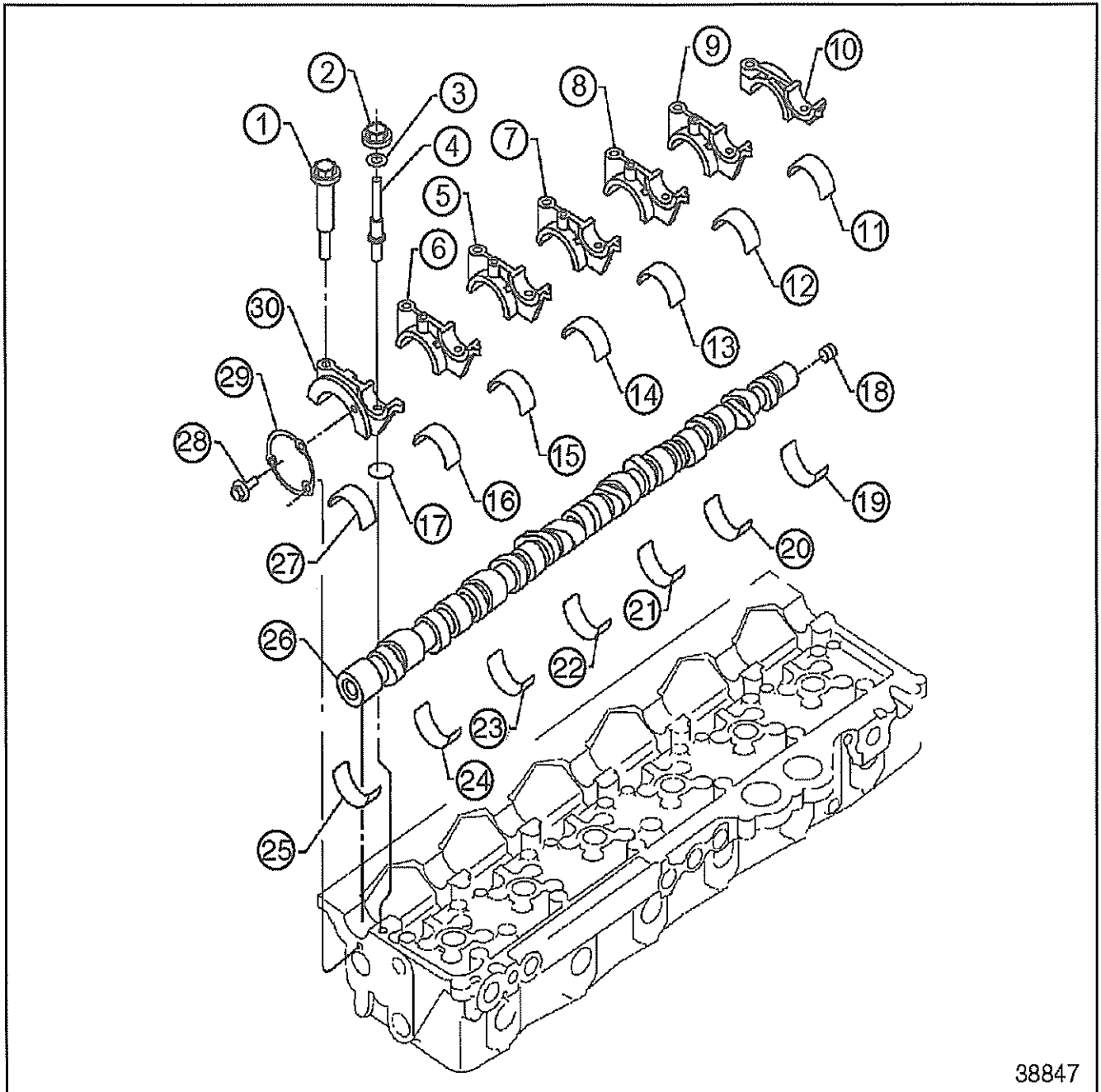


FIG 2 of 01.6

					TYPES									
01.6 CONNECTING ROD AND PISTON					8									
					3									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.		3									
01.6001		CONNECTING ROD ASSY.												
		<i>QUANTITIES SHOWN ARE PER CYLINDER. A CROSSHEAD ROD ASSY. INCLUDES A CAP. WHICH IS NOT SOLD SEPARATELY, AND ONLY THOSE ITEMS IN 1.6001.</i>												
		<i>NEW CRANKSHAFTS FOR WIDER CONN ROD BEARINGS AND CONN ROD ASSYS. MUST BE USED TOGETHER TO ENSURE INTERCHANGEABILITY.</i>												
	08929019	NUT, MJ14X1.5	2											
	08929355	BOLT, MJ14 X 1.5 X 108	2											
	23526078	(R) ROD ASSY., CONN DRILLED STL PSTN LEAD FREE	1											
01.6100		SHELL, CONNECTING ROD BEARING												
		<i>A SHELL SET CONSISTS OF ONE (1) UPPER AND ONE (1) LOWER BEARING SHELL.</i>												
		<i>NEW CRANKSHAFTS FOR WIDER CONN ROD BEARINGS AND CONN ROD ASSYS. MUST BE USED TOGETHER TO ENSURE INTERCHANGEABILITY.</i>												
	23526142	SHELL SET, STD CONN ROD DRILLED UPR/LWR 12.7L47.14MM WIDE	1											
	23527065	SHELL SET, .254 MM U.S.	AR											
	23527066	SHELL SET, .508 MM U.S.	AR											
	23527067	SHELL SET, .762 MM U.S.	AR											
01.6110		PISTON KIT												
		<i>A PISTON KIT INCLUDES PISTON ASSY., 3 PC. BUSHING, SKIRT AND PIN IN 1.6140.</i>												
		<i>QUANTITIES SHOWN ARE PER CYLINDER.</i>												
	23533203		1											
01.6115		RING SET, PISTON												
		<i>RING SET CONSISTS OF SUFFICIENT RINGS FOR ONE (1) PISTON.</i>												
	23531251	RING SET 12L S60	1											
01.6120		RING, PISTON COMPRESSION												
	08929845	RING, BOTTOM (KEYSTONE)	1											
	23530757	RING, COMPRESSION TOP 3.0MM	1											
01.6130		RING, PISTON OIL CONTROL												
	23515500	RING PSTN OIL CONT CR/HD	1											
	23529379	EXPANDER, SPR PSTN OIL CONT RING	1											
01.6140		PIN, PISTON												
	23525168	PIN, PISTON 22.00MM ID	1											
01.6150		RETAINER, PISTON PIN												
	23521781	RETAINER, STEEL PISTON PIN	2											
01.6181		KIT, CYLINDER LINER AND SEALS												

01.6 CONNECTING ROD AND PISTON				TYPES									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	8									
	01.6181	KIT, CYLINDER LINER AND SEALS <i>KIT INCLUDES NOT SERVICED SEPARATELY LINER AND SEALS IN 1.6190</i>	3										
2:4	23531249	KIT, LINER & SEALS	1										
	01.6182	CYLINDER KIT <i>A KIT INCLUDES ITEMS IN 1.6110, 1.6115, 1.6140 AND 1.6181.</i>											
	23533204		AR										
	01.6190	SEAL, CYLINDER LINER											
2:2	08929013	SEAL, CREVICE	1										
2:3	08929176	SEAL, D-RING	2										

DETROIT DIESEL**SERIES 60**

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FIG 1 of 01.7

DETROIT DIESEL

SERIES 60

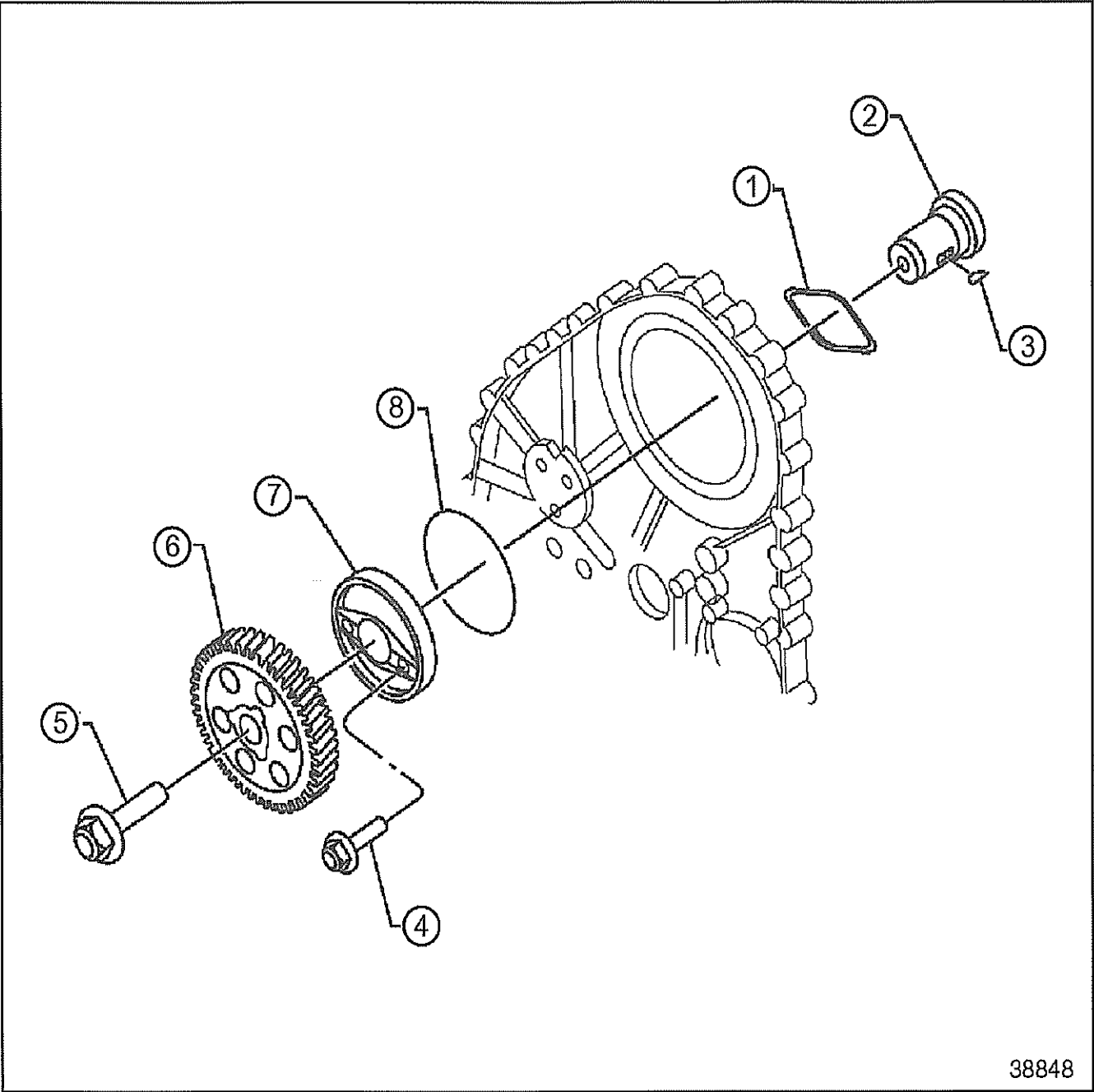
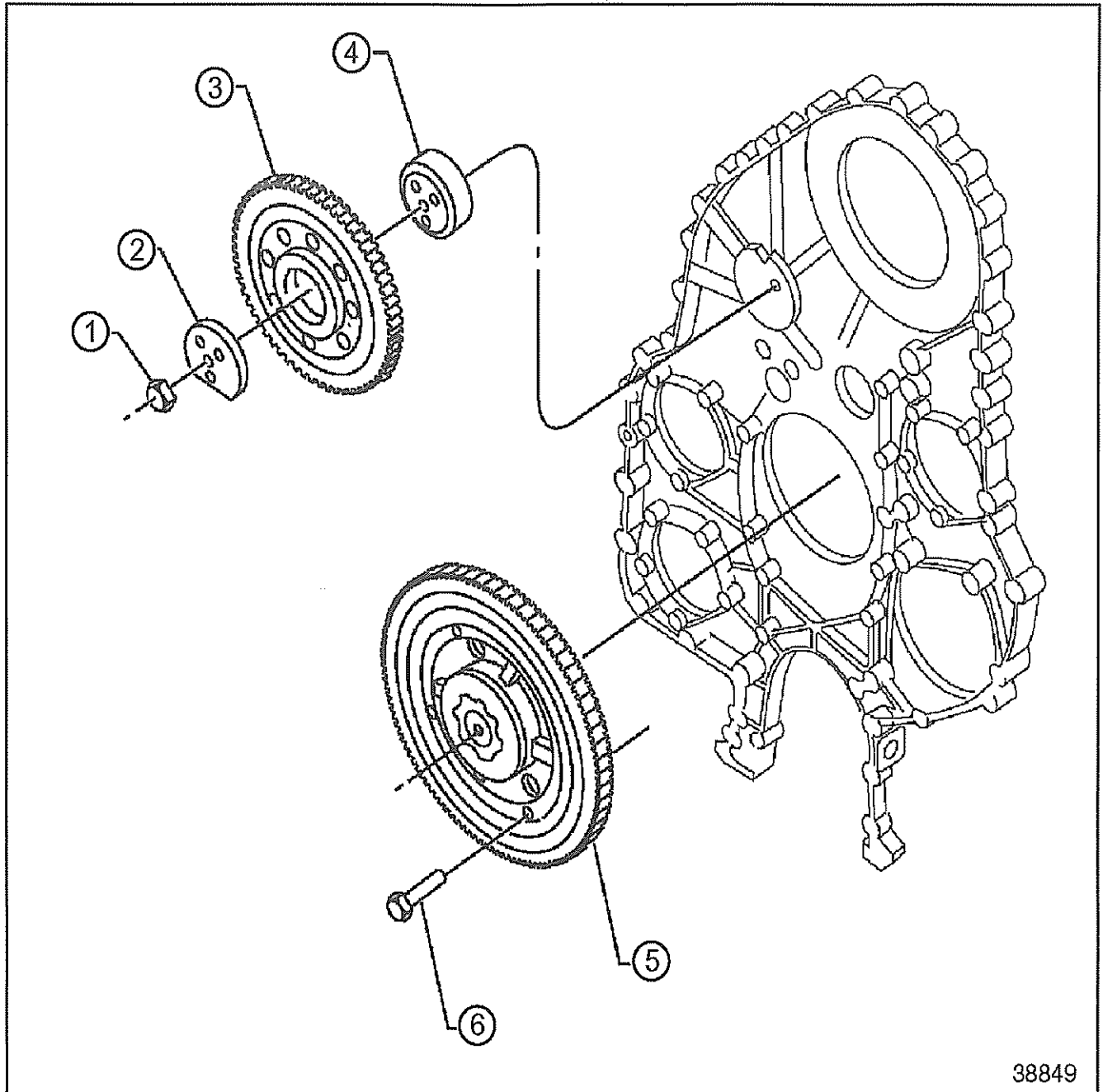


FIG 2 of 01.7

DETROIT DIESEL**SERIES 60****FIG 3 of 01.7**

					TYPES									
01.7 CAMSHAFT AND GEAR TRAIN					1									
FIG	PART NO.	NAME AND DESCRIPTION	ASSY.	QTY.	2									
REF.					6									
					7									
	01.7001	CAMSHAFT ASSY.												
1:18	08920172	DOWEL, CAMSHAFT (1.7200)		1										
1:26	23524906	CAMSHAFT ASSY., 12L USES 20MM CAM HUB BOLT		1										
	01.7037	COVER, CAMSHAFT BEARING CAP												
1:28	11509511	BOLT, M8 X 1.25 X 20 MM		3										
1:29	23514716	COVER RR CAMSHF S60		1										
	01.7040	BEARING, CAMSHAFT												
		<i>A BEARING SET CONSISTS OF ONE UPPER AND ONE LOWER BEARING SHELL.</i>												
1:11	08929690	BEARING SET (STD.)		7										
	08929691	BEARING SET, .254 MM O.S.		AR										
	08929692	BEARING SET, .508 MM O.S.		AR										
	08929693	BEARING SET, .762 MM O.S.		AR										
	01.7042	CAP, CAMSHAFT BEARING												
	05138638	DOWEL, .626"X.37" HOLLOW (4.1040)		7										
		<i>FIG. 1 OF 1.2000.</i>												
1:10	08929738	CAP, CAMSHAFT BEARING, FRONT (IDENTIFICATION-NO.1); USE: 23522649		NS										
1:30	08929739	CAP, CAMSHAFT BEARING, REAR (IDENTIFICATION-NO. 7)		1										
1:17	08929740	SEAL, RING .134X.074X.480 I.D.		2										
1:9	08929870	CAP, CAMSHAFT BEARING, INTERMEDIATE (1.7042)		4										
1:7	08929871	CAP, CAMSHAFT BEARING, CENTER (IDENTIFICATION-NO.)		1										
	23522649	CAP, #1 CAMSHAFT BEARING FRT RACE TRACK SEAL		1										
	01.7046	BOLT, CAMSHAFT BEARING CAP												
1:1	08929129	BOLT, M12 X 1.75 X 65		7										
	01.7070	PLATE, CAM AND BALANCE SHAFT THRUST												
2:4	11504822	BOLT, M8 X 1.25 X 30		3										
2:7	23521892	PLATE, CAM THRUST 3 BOLT		1										
	01.7075	SEAL, CAMSHAFT THRUST PLATE												
2:1	23521894	SEAL, CAM THRUST PLATE TO CYL HD 3 BOLT		1										
2:8	23528491	SEAL, CAMSHAFT THRUST PLATE PERIMETER		1										
	01.7200	GEAR, CAMSHAFT AND BALANCE SHAFT												
2:6	08929379	GEAR 111T		1										
	01.7206	HUB, CAMSHAFT GEAR												
2:2	08929492	HUB; USE: 23524883		NS										
2:3	08929810	KEY, NON ROCK (12.9350)		1										
2:5	23524882	BOLT, M20 X 1.50 X 100.0		1										

				TYPES									
01.7 CAMSHAFT AND GEAR TRAIN				1									
				2									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	6									
				7									
	01.7206	HUB, CAMSHAFT GEAR											
	23524883	HUB CAM DRV GEAR	1										
	01.7220	GEAR ASSY., IDLER											
		A GEAR AND HUB ASSY. IS SERVICED AS A COMPLETE ASSY. ONLY.											
3:6	08929448	BOLT, M12 X 1.75 X 35	4										
3:5	23513559	(R) GEAR & HUB ASSY., BULL/CAMSHF DDEC III/IV	1										
	01.7221	GEAR ASSY., ADJUSTABLE CAMSHAFT IDLER											
3:3	08929322	GEAR ASSY. (INCLUDES BUSHING WHICH IS NOT SERVICED SEPARATELY)	1										
	01.7255	HUB, ADJUSTABLE IDLER GEAR											
3:4	08929111	HUB	1										
3:2	08929336	PLATE, ADJUSTMENT	1										
3:1	11509607	NUT, M12 X 1.75	3										

DETROIT DIESEL

SERIES 60

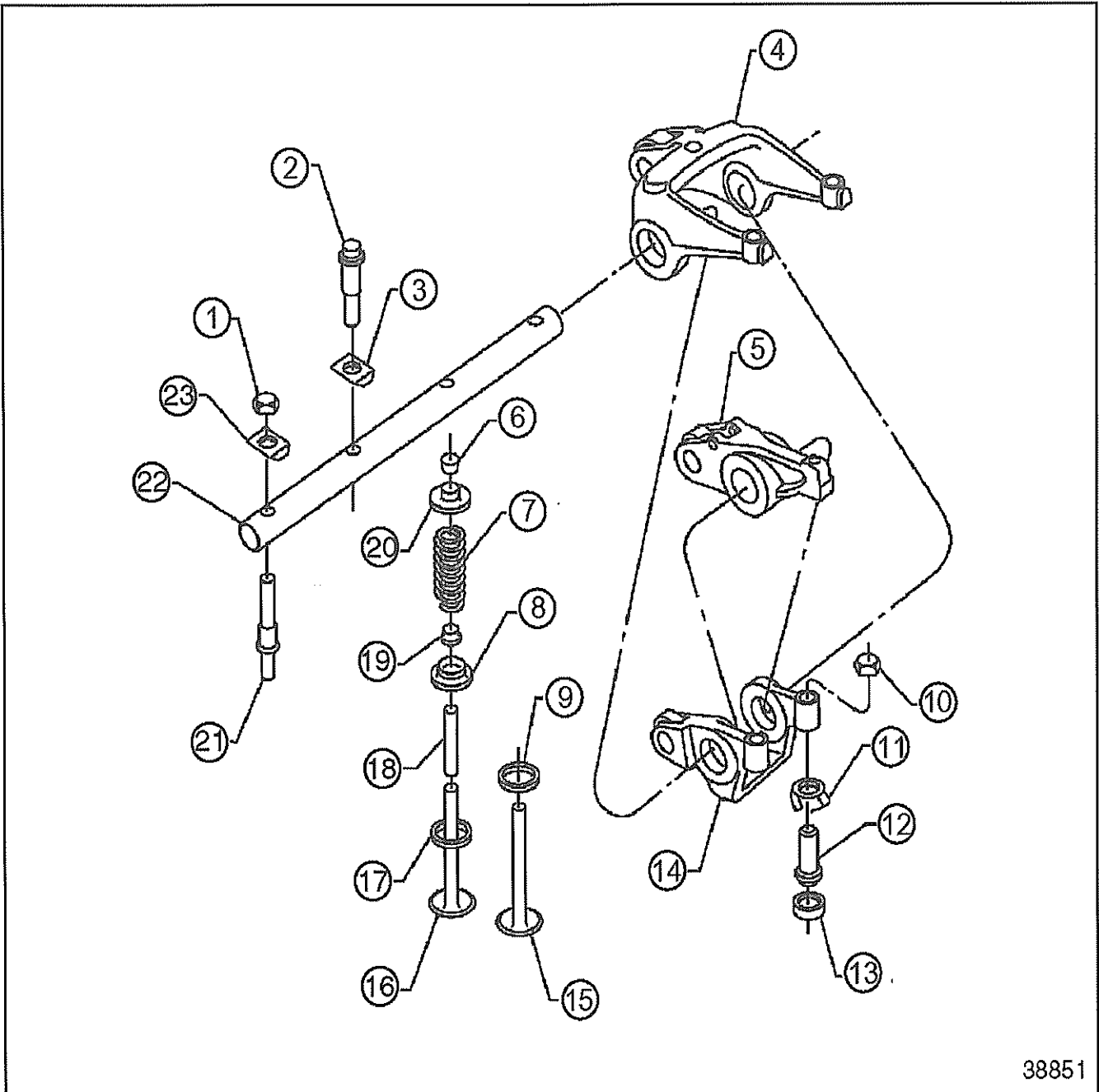
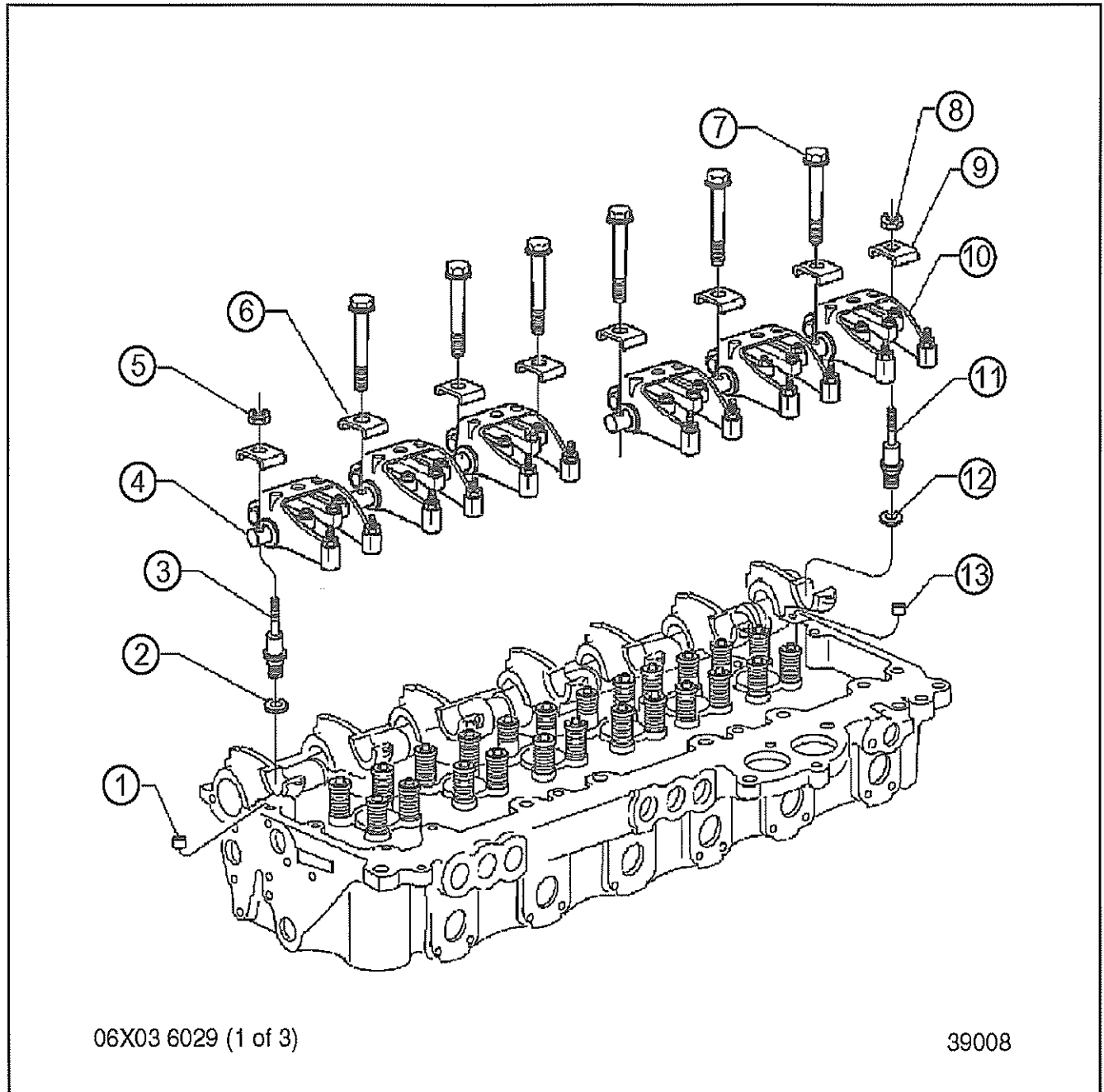


FIG 1 of 01.8

DETROIT DIESEL**SERIES 60****FIG 2 of 01.8**

DETROIT DIESEL

SERIES 60

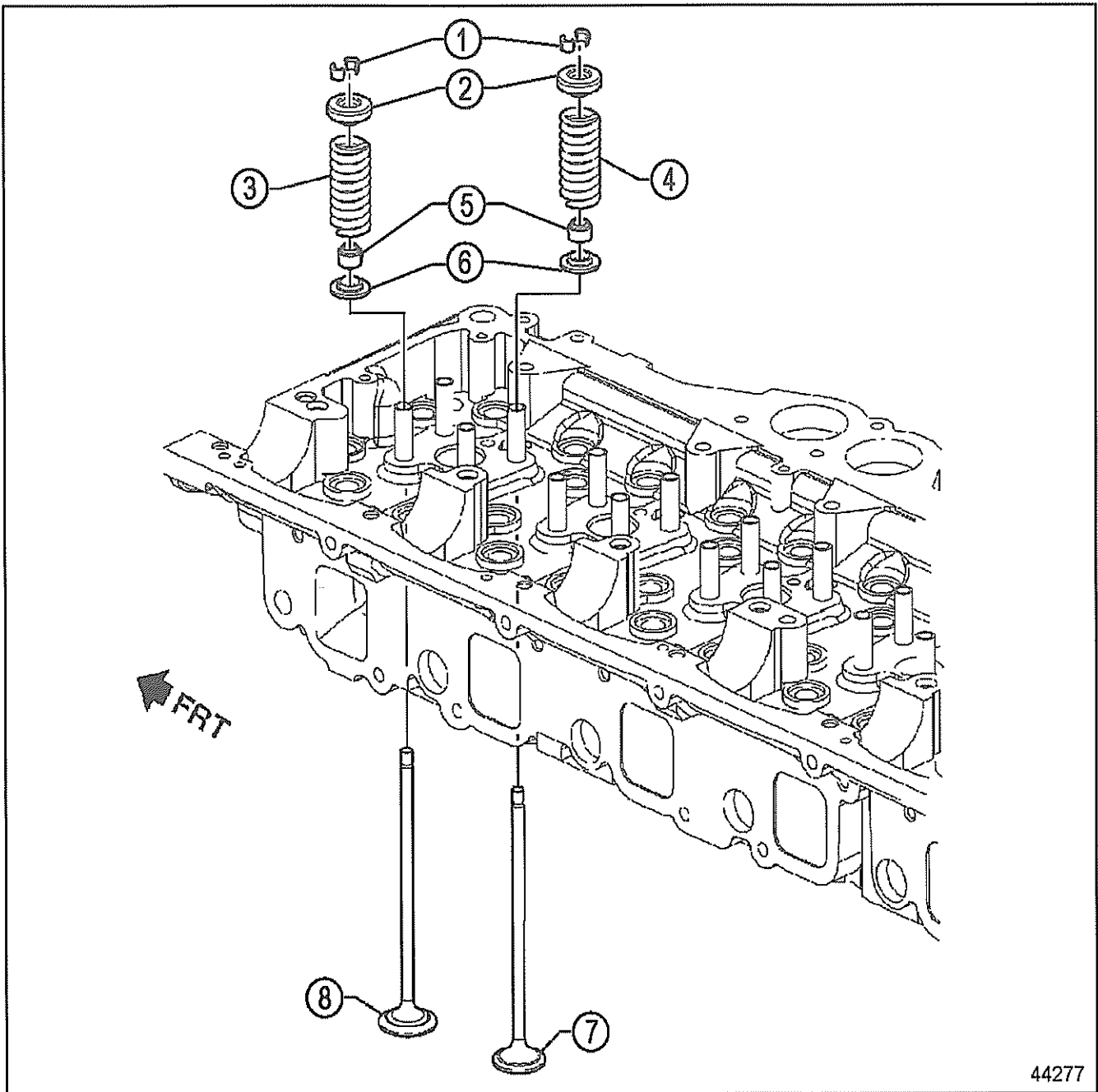
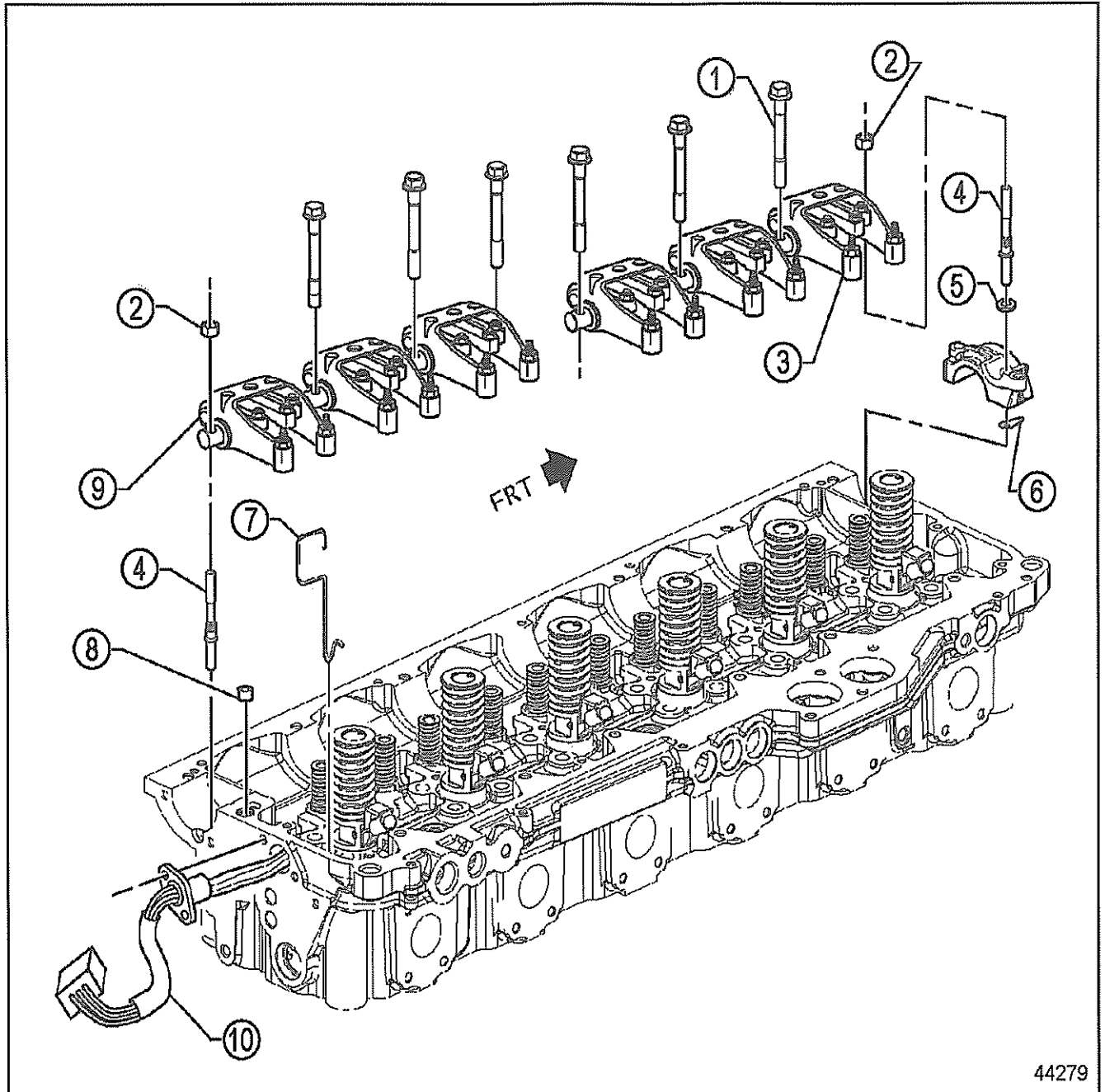


FIG 3 of 01.8

DETROIT DIESEL

SERIES 60



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FIG 4 of 01.8

DETROIT DIESEL

SERIES 60

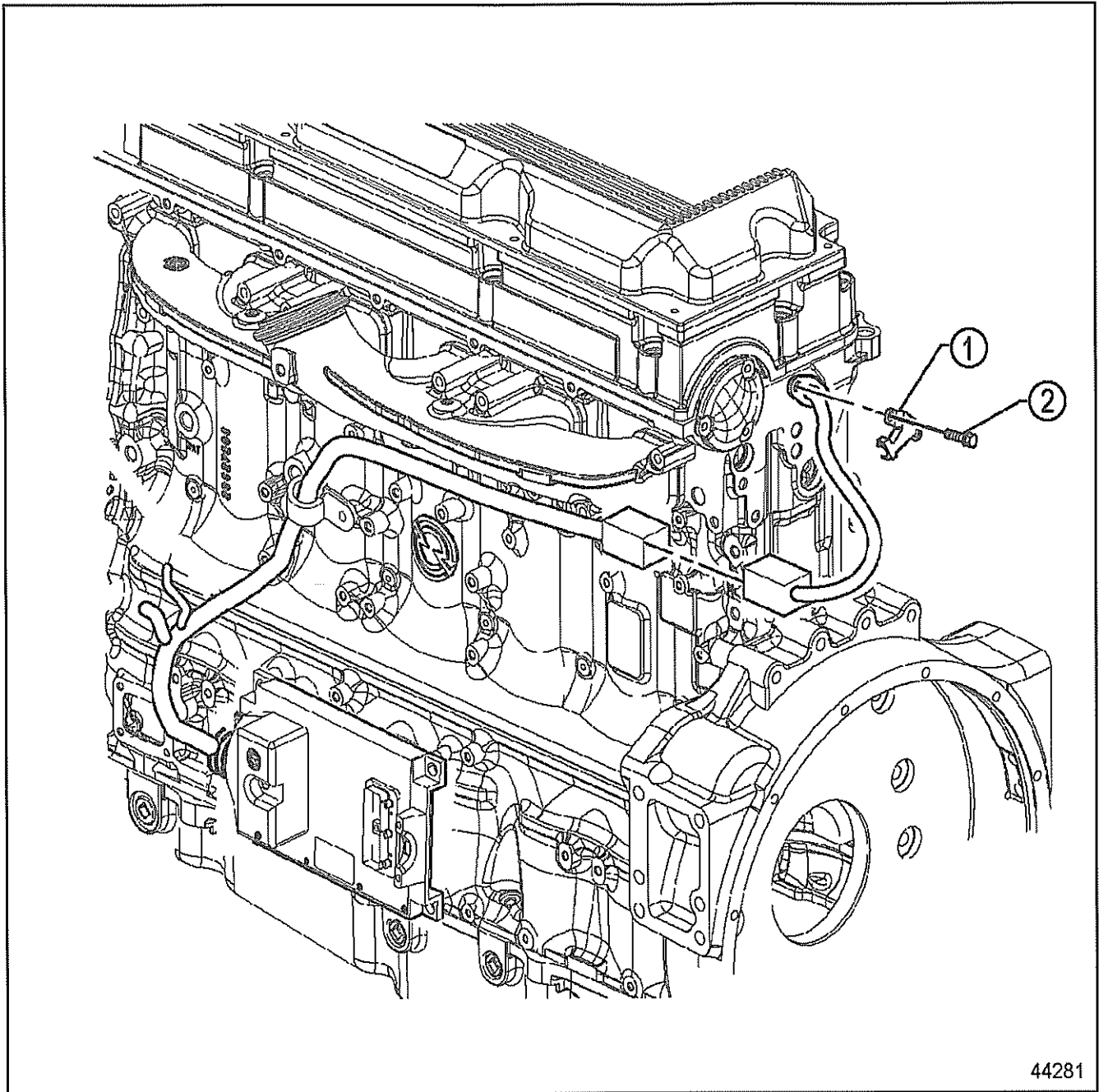
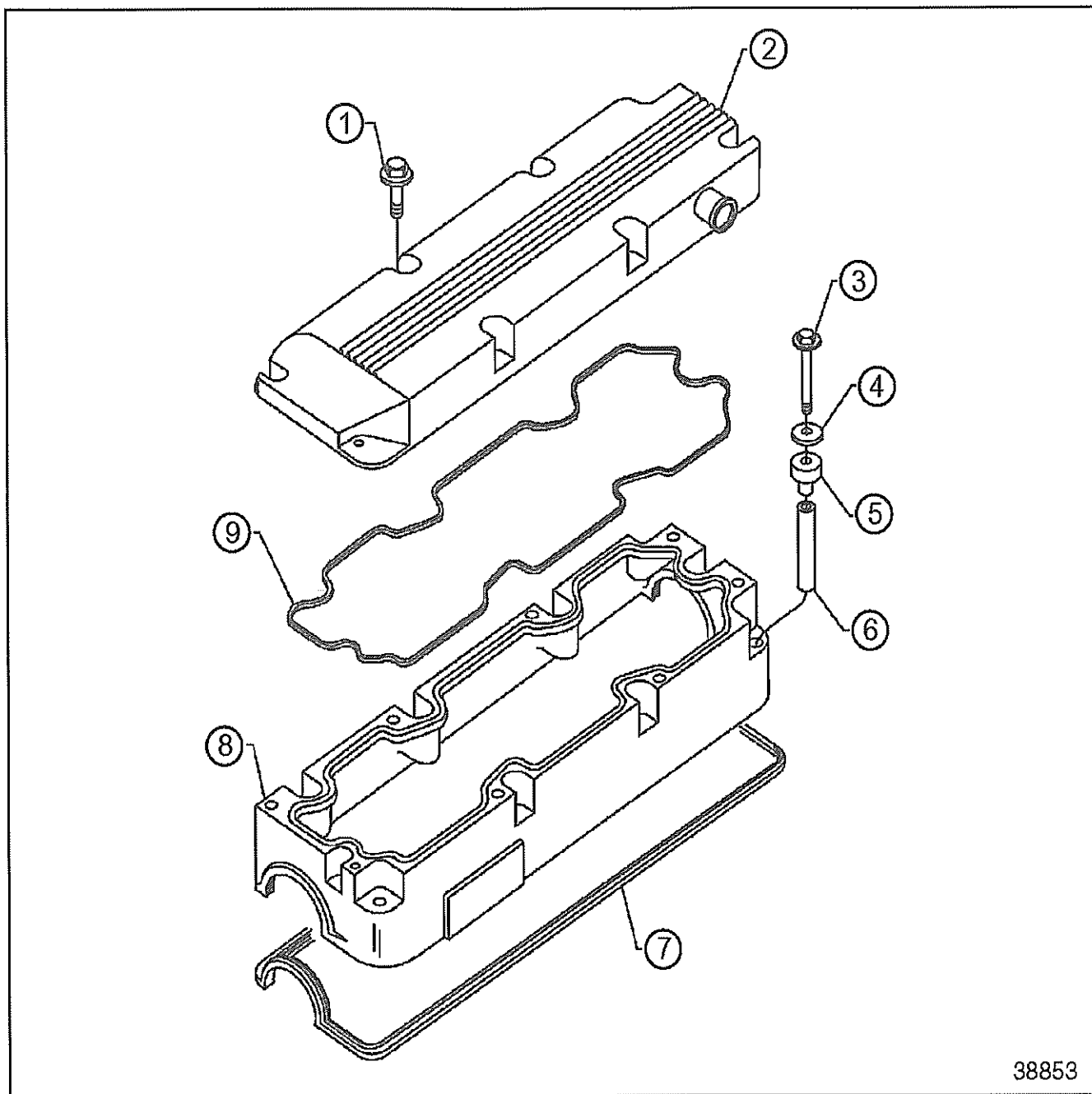


FIG 5 of 01.8

				TYPES											
01.8 VALVE AND INJECTOR OPERATING MECHANISM				9											
				0											
FIG	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	7											
REF.															
01.8050		HARNESS ASSY., INJECTOR													
	23513556	HARNESS ENG EDU TO INJ DDEC III USES 12034222 STRAIGHT SCREW TERMINAL SLOTTED	1												
01.8060		ARM ASSY., EXHAUST VALVE ROCKER													
		<i>ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.</i>													
	09421740	PLUG, CUP 3/16" (12.9320)	12												
	R23523174	ARM & RLR ASSY. EXH RKR W/O OIL HOLE	6												
01.8075		ARM ASSY., INTAKE VALVE ROCKER													
		<i>ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.</i>													
	R23520644	ARM & RLR ASSY., INT RKR W/O OIL HOLE	6												
01.8080		ARM ASSY., INJECTOR ROCKER													
		<i>ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.</i>													
	R23524771	ARM ASSY., INJ ROCKER CERAMIC ROLLER	6												
01.8135		SCREW, ROCKER ARM ADJUSTING													
	23514371	NUT, 3/8"-24 HEX JAM	30												
	23520818	SCREW ASSY., INTAKE VALVE ADJUSTING UNITIZED 50/60(INTAKE POSITION)	12												
	23520819	SCREW ASSY., EXHAUST VALVE ADJ UNITIZED 50/60(EXHAUST POSITION); USE: 23534149	NS												
	23520820	SCREW ASSY., INJECTOR ADJUSTING UNITIZED 50/60(INJECTOR POSITION)	6												
	23534149	SCREW ASM VLV ADJ EXH UNITIZED S50/60	12												
01.8160		SHAFT ASSY., ROCKER													
	08929740	SEAL, RING .134X.074X.480 I.D.	1												
	09421745	PLUG, CUP 1/2" (12.9330)	2												
	23500708	NUT, M12 X 1.75	2												
	23513530	SHAFT ASSY., LUBRITED (INCLUDES PLUG)(NS USE 1-23524767 PLUS 3-23525734 BOLTS)	2												
	23521111	SEAL	2												
	23521734	STUD/SEAL ASSY.W/M12 X 1.75 X 123.0 STUD	2												
	23522975	SEAL, RACETRACK FRT CAMSHAFT CAP	1												
	23525734	BOLT, M12 1.75 X 100MM L	6												
	23526221	STUD, M12 1.75 X 136 L	2												
01.8310		VALVE, EXHAUST													
	23501577	VALVE KIT (IDENTIFICATION-U)	12												
01.8315		VALVE, INTAKE													
	23501576	VALVE KIT (INCLUDES SEAL IN 1.8320 AND LOCK IN 1.8370)	12												
01.8320		GUIDE, EXHAUST VALVE													
	23518571	GUIDE VALVE 14.303-14.323 OD SERVICE; USE: 23533552	NS												

		TYPES									
		01.8 VALVE AND INJECTOR OPERATING MECHANISM									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.								
			9								
			0								
			7								
	01.8320	GUIDE, EXHAUST VALVE									
	23518572	GUIDE VALVE 14.430-14.450 OD SERVICE	AR								
	23523930	SEAL EXH VALVE STEM (4 VLV)	24								
	23533552	GUIDE VALVE POWDERED METAL SERVICE	24								
	01.8330	INSERT, EXHAUST VALVE									
	08929126	INSERT, (EXHAUST) (STD) (6.261MM-6.363MM)	12								
	08929127	INSERT, (INTAKE) (STD) (7.155MM-7.257MM)	12								
	08929625	INSERT, (INTAKE) (.010" U.S.) (6.901MM-7.003MM)	AR								
	08929626	INSERT, (INTAKE) (.020" U.S.) (6.647MM-6.749MM)	AR								
	08929627	INSERT, (INTAKE) (.030" U.S.) (6.393MM-6.495MM)	AR								
	08929628	INSERT, (EXHAUST) (.010" U.S.) (6.007MM-6.109MM)	AR								
	08929629	INSERT, (EXHAUST) (.020" U.S.) (5.753MM-5.855MM)	AR								
	08929630	INSERT, (EXHAUST) (.030 U.S.) (5.499MM-5.601MM)	AR								
	01.8340	SPRING, EXHAUST VALVE									
	08929415	SPRING (YELLOW STRIPE)	24								
	01.8360	SEAT, EXHAUST VALVE SPRING									
	08929076	SEAT (2.2MM-2.4MM)	24								
	08929634	SEAT (2.45MM-2.65MM)	AR								
	08929635	SEAT (2.70MM-2.90MM)	AR								
	08929636	SEAT (2.95MM-3.15MM)	AR								
	01.8365	ROTATOR, VALVE									
	08929105	ROTATOR	24								
	01.8370	LOCK, EXHAUST VALVE SPRING									
	08929573	LOCK, KEY EXHAUST VALVE SPRING	48								

DETROIT DIESEL**SERIES 60**

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FIG 1 of 01.8A

- 01 ENGINE (LESS MAJOR ASSEMBLIES)**
 - 01.1 CYLINDER BLOCK
 - 01.2 CYLINDER HEAD
 - 01.2A ENGINE LIFTER BRACKET
 - 01.3 CRANKSHAFT, OIL SEALS AND STABILIZERS
 - 01.3A CRANKSHAFT FRONT COVER
 - 01.3B VIBRATION DAMPER
 - 01.3C CRANKSHAFT PULLEY
 - 01.4A FLYWHEEL
 - 01.5A FLYWHEEL, HOUSING
 - 01.6 CONNECTING ROD AND PISTON
 - 01.7 CAMSHAFT AND GEAR TRAIN
 - 01.8 VALVE AND INJECTOR OPERATING MECHANISM
 - 01.8A ROCKER COVER
- 02 FUEL SYSTEM**
 - 02.1A FUEL INJECTOR/CNG CONTROLS
 - 02.1B INJECTOR, CONTROLS ELECTRONIC
 - 02.2 FUEL PUMP
 - 02.3A FUEL FILTER AND STRAINER
 - 02.5A FUEL LINES AND FUEL COOLER
- 03 AIR SYSTEM**
 - 03.3C AIR INTAKE MANIFOLD
 - 03.5A TURBOCHARGER, INTERCOOLER AND AFTERCOOLER
- 04 LUBRICATING SYSTEM**
 - 04.1A OIL PUMP
 - 04.1B OIL DISTRIBUTION SYSTEM
 - 04.1C OIL, PRESSURE REGULATOR
 - 04.2A OIL FILTER
 - 04.4A OIL COOLER AND MARINE GEAR LINES
 - 04.5A OIL, FILLER
 - 04.6A DIPSTICK
 - 04.7A OIL PAN
 - 04.8A VENTILATING SYSTEM
- 05 COOLING SYSTEM**
 - 05.1 FRESH WATER PUMP
 - 05.2B THERMOSTAT
 - 05.2C WATER BYPASS TUBE
 - 05.3B WATER CONNECTIONS
 - 05.4A FAN
- 06 EXHAUST SYSTEM**
 - 06.1A EXHAUST MANIFOLD AND/OR CONNECTIONS
 - 06.2A EXHAUST MUFFLER AND/OR CONNECTIONS
- 07 ELECTRICAL INSTRUMENTS**
 - 07.1A BATTERY, CHARGING GENERATOR
 - 07.3A STARTING MOTOR
- 11 ENGINE MOUNTING**
 - 11.1A ENGINE MOUNTING AND BASE

DETROIT DIESEL

SERIES 60

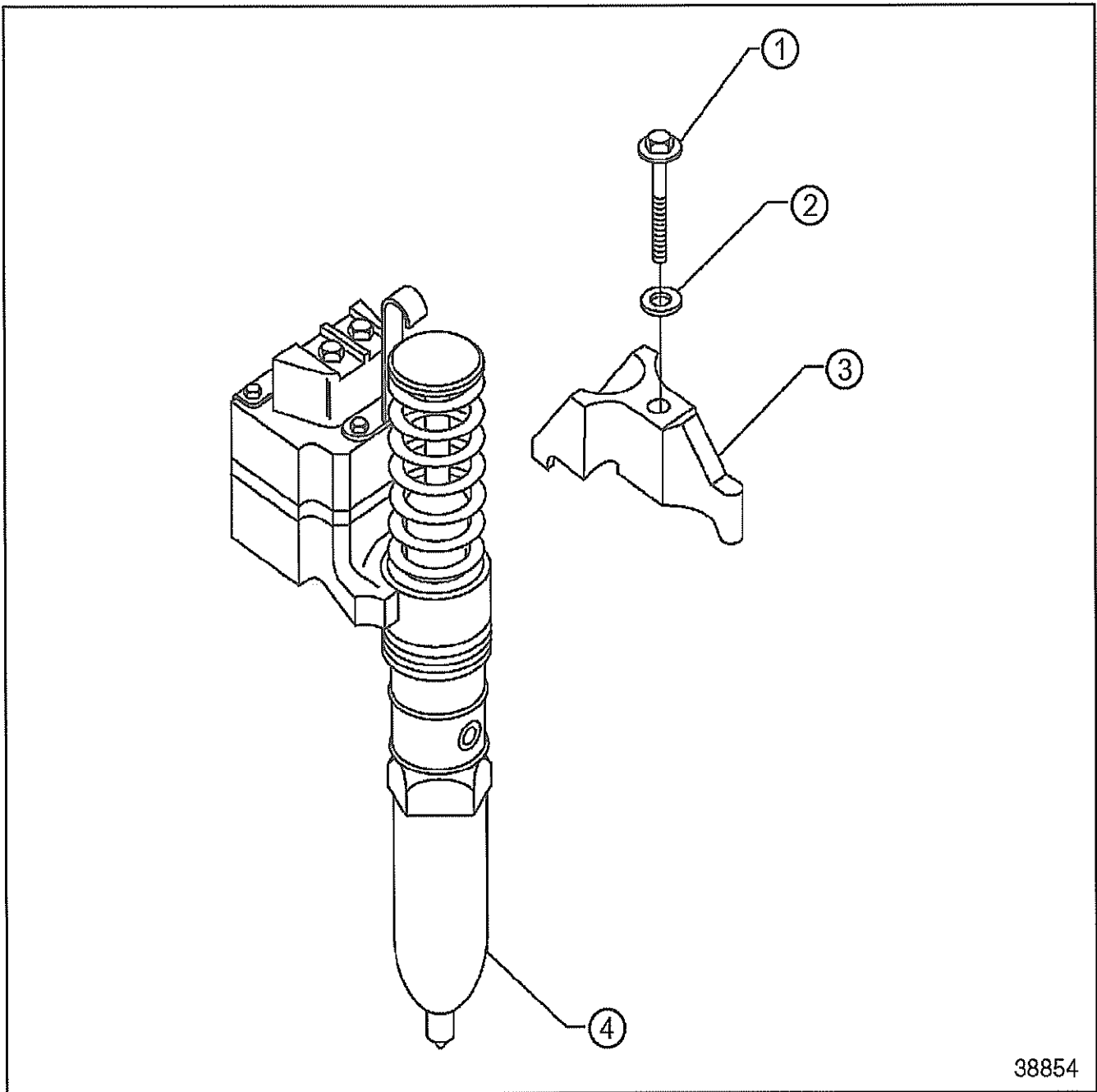


FIG 1 of 02.1A

		TYPES										
		02.1A FUEL INJECTOR/CNG CONTROLS										
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.									
	02.1A001	INJECTOR ASSY.	3									
1:4	R5235695	INJECTOR,(10MM,9.640 X 155) 12L	7									
			3									
	02.1A002	SERVICE KIT, INJECTOR										
	05234934	KIT, EUI GROOVED SOLENOID STATOR(OBSOLETE)	6									
	05236116	KIT, EUI SOLENOID SEALS & SCREWS	AR									
			AR									
	02.1A040	RING, INJECTOR SEAL										
		FORMER STYLE EUI INJECTOR BODY USED 2-UPPER AND 2-LOWER SEAL RINGS.										
		CURRENTSTYLE EUI INJECTOR BODY USE 1-UPPER AND 2-LOWER SEAL RINGS.										
	05234699	RING, SEAL LOWER	2									
	05234702	RING, SEAL UPPER	1									
	02.1A270	CLAMP, INJECTOR										
1:2	08929021	WASHER	6									
1:3	08929088	CLAMP	6									
1:1	08929393	BOLT, M10 X 1.5 X 70.0 (12.9001)	6									

DETROIT DIESEL

SERIES 60

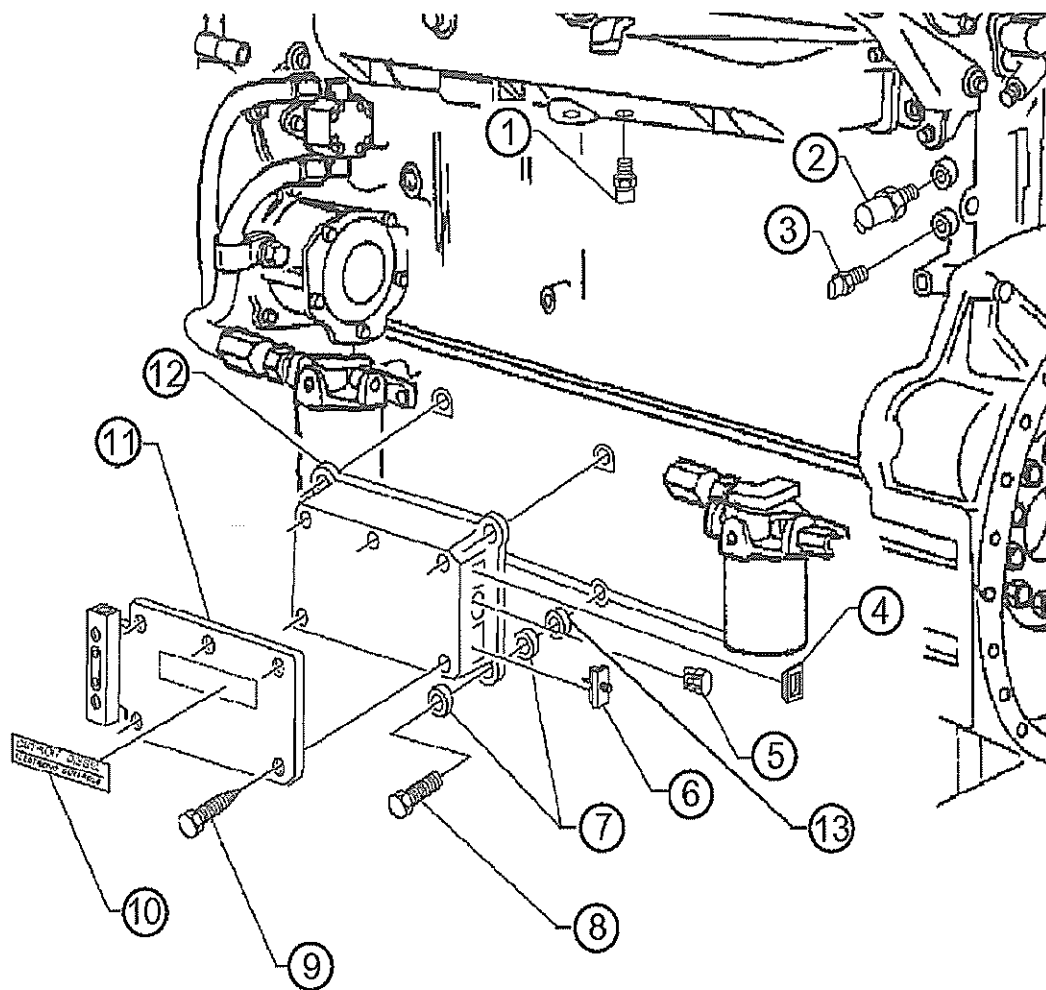
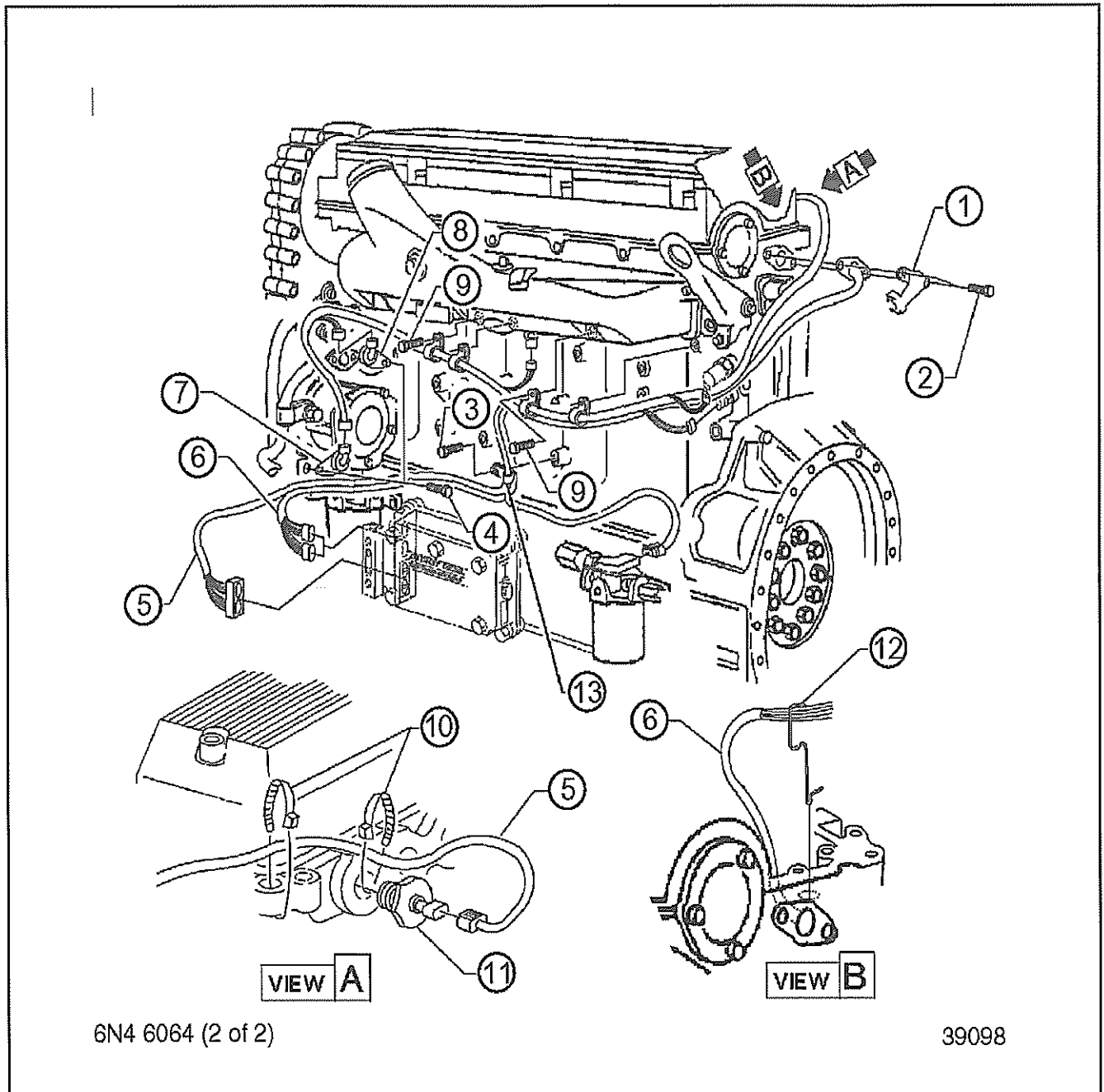


FIG 1 of 02.1B

DETROIT DIESEL**SERIES 60****FIG 2 of 02.1B**

DETROIT DIESEL

SERIES 60

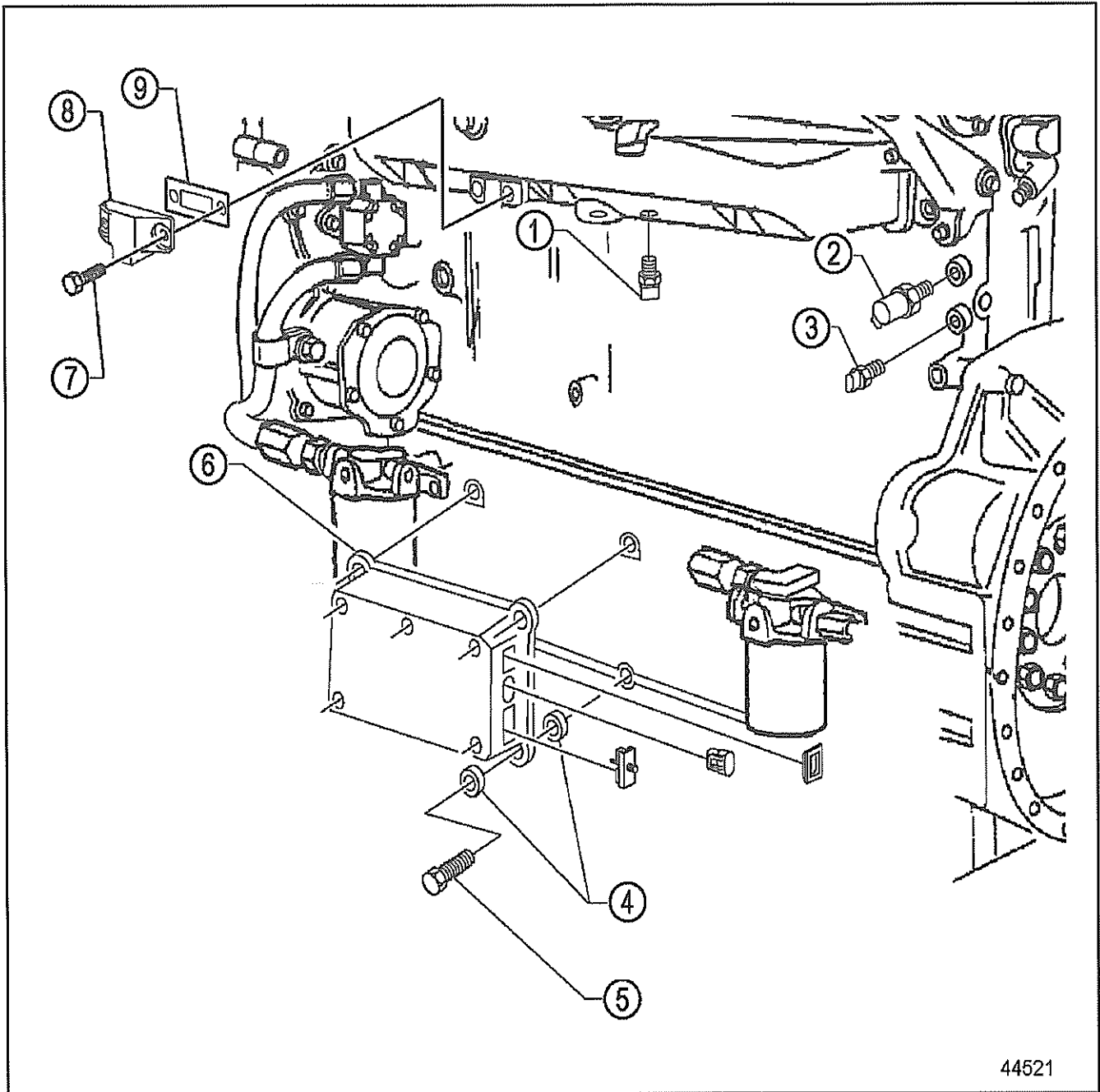


FIG 3 of 02.1B

DETROIT DIESEL

SERIES 60

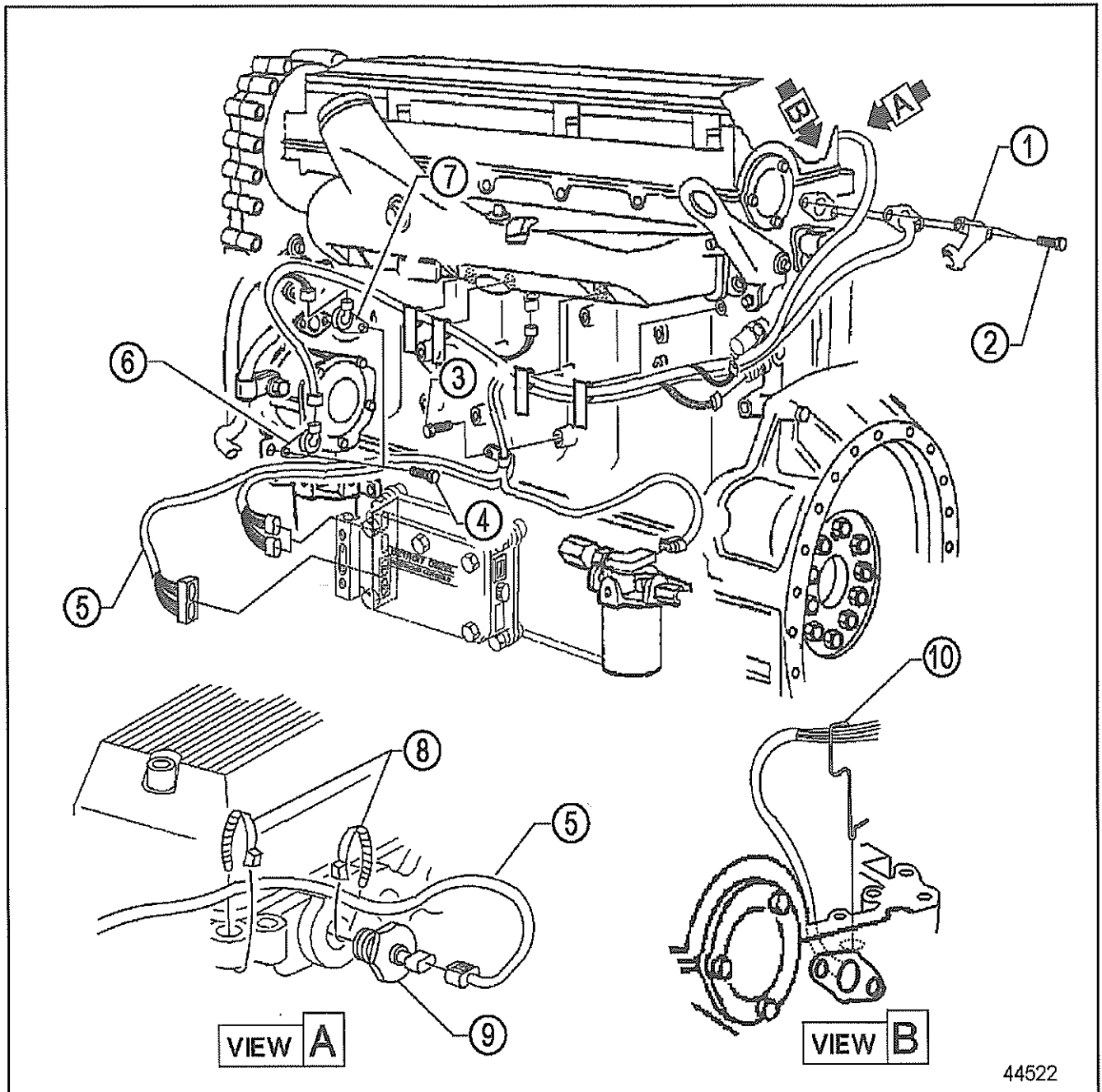


FIG 4 of 02.1B

				TYPES									
		02.1B INJECTOR, CONTROLS ELECTRONIC		8									
				7									
FIG	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	1									
REF.													
	02.1B501	MODULE ASSY., ELECTRONIC CONTROL (ECM)											
	12040542	COVER ECM TERMINAL PROTECTION	1										
	23512309	BOLT M8 1.25 SHOULDER 12 PT HD	4										
	23513607	COVER COMMUNICATION PROTECTION DDEC III	1										
	23513608	COVER POWER CONN PROTECTION DDEC III	1										
	23519308	(R) MODULE, ELEC CONTROL DDEC IV	1										
	02.1B520	PLATE ASSY., ELECTRONIC DISTRIBUTOR UNIT COLD											
	23512307	ISOLATOR, ECM MOUNT	8										
	02.1B600	SENSOR, OIL OR FUEL PRESSURE											
	23511176	SENSOR, OIL/FUEL PRESSURE; USE: 23532797	NS										
	23532797	SENSOR OIL PRESS W/DUAL GASKET SEAL & VENT FILTER	1										
	02.1B610	SENSOR, MAG. IDLER											
	08929387	SENSOR (SRS)(INCLUDES 1-8928652 SEAL RING)	1										
	11504986	BOLT, M8 X 1.25 X 14 MM	1										
	02.1B620	SENSOR, MAG. CRANKSHAFT											
	08929388	SENSOR (TRS)(INCLUDES 2-8928652 SEAL RINGS)	1										
	11504986	BOLT, M8 X 1.25 X 14 MM	1										
	02.1B630	SENSOR, OIL, FUEL OR COOLANT TEMPERATURE											
	23515251	SENSOR ASSY., COOL TEMP 3/4 IN. BRS	1										
	23518092	SENSOR ASSY., OIL WATER FUEL & AIR TEMPERATURE	1										
	02.1B647	SENSOR, AIR TEMPERATURE											
	11503454	BOLT, M10 X 1.5 X 20.0	1										
	23515250	SENSOR ASSY., AIR TEMP PLSTC DDEC III	1										
	02.1B650	SENSOR/KIT , AIR PRESSURE/TURBO BOOST											
	05182977	RING, SEAL (3.3055)	1										
	23522322	SENSOR ASSY. AIR TURBO BOOST DDEC IV	1										
	23522719	BOLT M5 0.8 X 20.0 LG HEX HD; USE: 23533305	NS										
	23533305	BOLT, M5 X .8 X 20 MM	2										
	02.1B700	HARNESS, ELECTRONIC DISTRIBUTOR UNIT TO INJECTOR											
		<i>INJECTOR HARNESS ASSY. MAY BE SHOWN IN 1.8000 VALVE MECHANISM TYPE UNDER (1.8050).</i>											
	08929534	CLIP	1										
	11509511	BOLT, M8 X 1.25 X 20 MM	2										
	02.1B702	COVER, INJECTOR HARNESS											
	08929508	COVER	1										

FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	TYPES											
				8											
		02.1B INJECTOR, CONTROLS ELECTRONIC	1	7											
	02.1B702	COVER, INJECTOR HARNESS													
	02.1B720	HARNESS, ENGINE SENSORS TO DISCONNECT													
	05101020	STRAP, NYLON (2.5255)	9												
	11504986	BOLT, M8 X 1.25 X 14 MM	3												
	23504750	STRAP, TIE NYLON 11.60"-11.70" LG.	1												
	23522323	HARNESS ENG SENSOR DDEC IV	1												

DETROIT DIESEL

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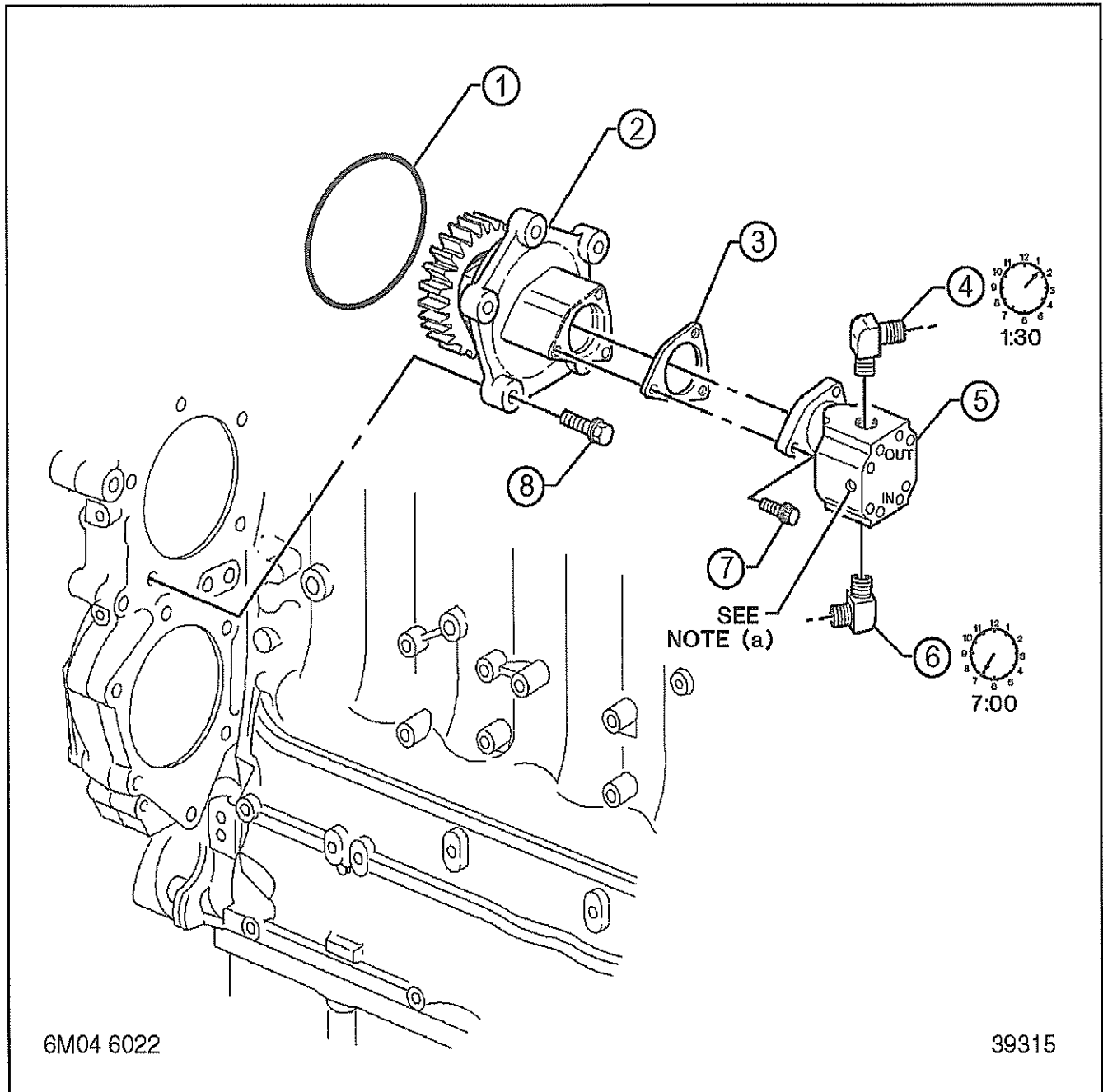
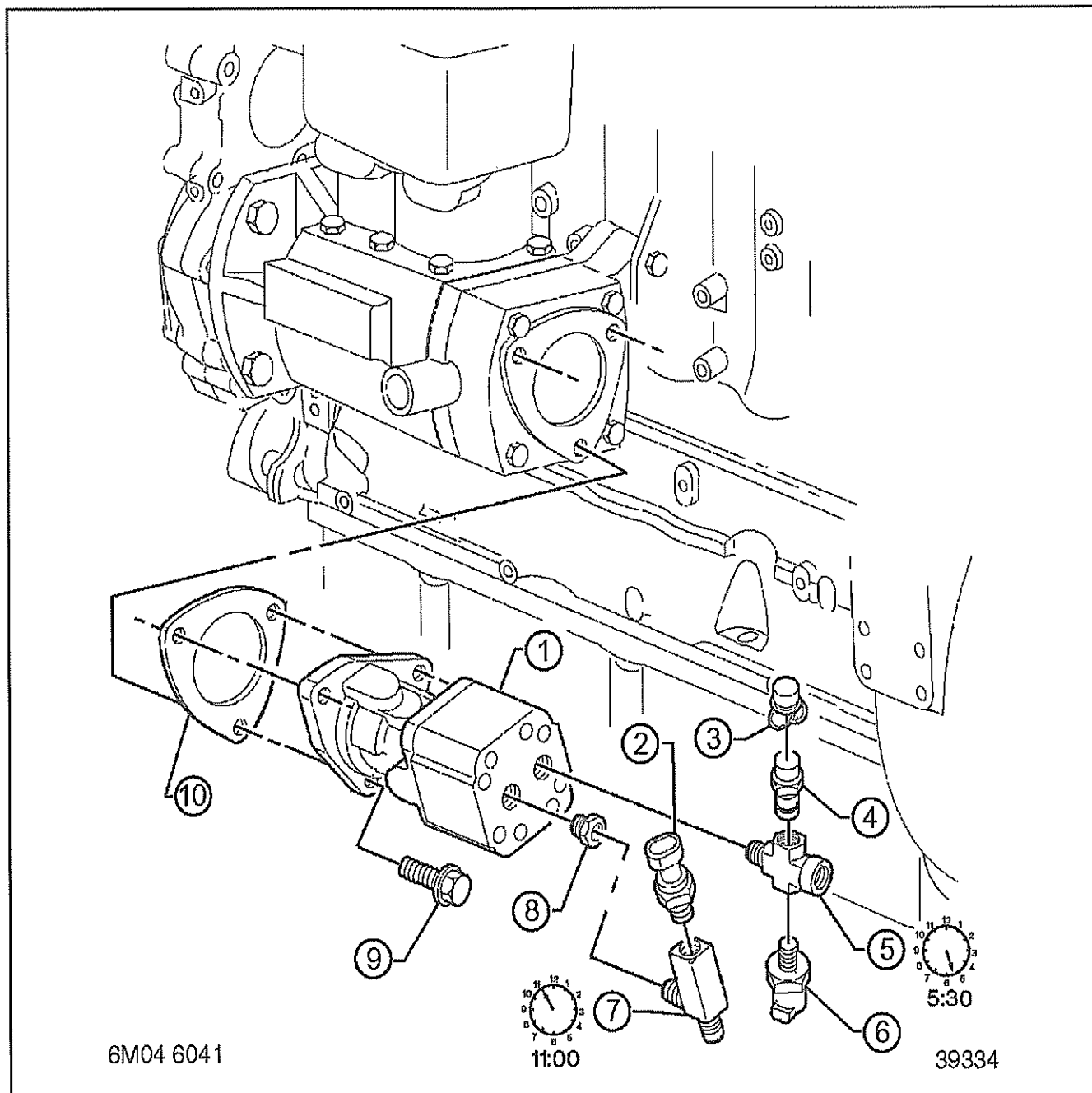


FIG 1 of 02.2

DETROIT DIESEL**SERIES 60****FIG 2 of 02.2**

					TYPES									
02.2 FUEL PUMP					3									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.		3									
					4									
02.2001		PUMP ASSY., FUEL												
	08924150	ELBOW, 1/2"-90 DEG. FL. TUBE; 3/8" PIPE (12.9390)	1											
	08929832	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											
	23523754	PUMP, FUEL ASSY. (RH)	1											
	23525945	STATOR, (VIP) BARNES FUEL PUMP	1											
	23500694	PIN, ALIGNMENT	2											
	23506551	SCREW	8											
	23506552	PLUG 3/8-18 PLASTIC F/PUMP BARNES S60	2											
	23506561	PLUG	1											
	23511957	COVER, FUEL PUMP	1											
	08923535	PLUG 1/8-27 PLSTC SHPG BARNES F/PMP	1											
	23506547	GASKET, GOLD	1											
	23506548	GASKET, SILVER	1											
	23516117	GASKET, BLUE	1											
	23516118	GASKET, AMBER	1											
	23523802	BEARING, BALL BARNES FUEL PUMP	NS											
	08923526	BEARING, FUEL PUMP	4											
	23512243	SEAL, OIL SGL LIP	1											
	23523535	SEAL, OIL BARNES FUEL PUMP	1											
	23525982	RING, CRESCENT BARNES FUEL PUMP	1											
	23511959	GEAR (.275)	2											
	23511963	KEY, FUEL PUMP DRV. GEAR	1											
	08923522	RING, GEAR RETAINING	4											
	08923521	PIN, DRIVEN GEAR	1											
	23511960	SHAFT	1											
	23525943	SHAFT, DRIVE (VIP) BARNES FUEL PUMP	1											
	23506560	SPACER, RELIEF VALVE	2											
	23506564	PIN, SHEAR RELIEF VALVE	1											
	23520879	SPACER	1											
	08923528	VALVE, FUEL PUMP	1											
	23506557	SPRING, RELIEF VALVE	1											
	23506555	CAP, RELIEF VALVE	1											
	23532978													
02.2007		GASKET, FUEL PUMP TO ENGINE OR DRIVE ASSEMBLY												
	05150193	GASKET (FUEL PUMP TO DRIVE ASSY.) (5.1010)	1											
02.2240		DRIVE ASSY., FUEL PUMP												
	08929253	SEAL, RING .139" X 4.609" I.D. (2.2280)	1											
	11504822	BOLT, M8 X 1.25 X 30	5											
	23523751	DRIVE ASSY., FUEL PUMP DL-ROW BALL BRG	1											
	23523748	BEARING, FUEL PUMP DRIVE	1											
	23523753	SPACER FUEL PUMP DRIVE	1											
	08929786	GEAR, 15.875 MM I.D.	1											
	23519986	NUT M14 X 2.0-6H	1											
	23523749	SHAFT, FUEL PUMP DRIVE	1											
	23523750	ADAPTOR, FUEL PUMP DRIVE	1											
	23523755	BOLT, M6 1.00 X 30.0"	3											
	23523752	SPROCKET, FUEL PUMP DRIVE	1											
	09411502	RING, RETAINING (2.7470)	1											

DETROIT DIESEL

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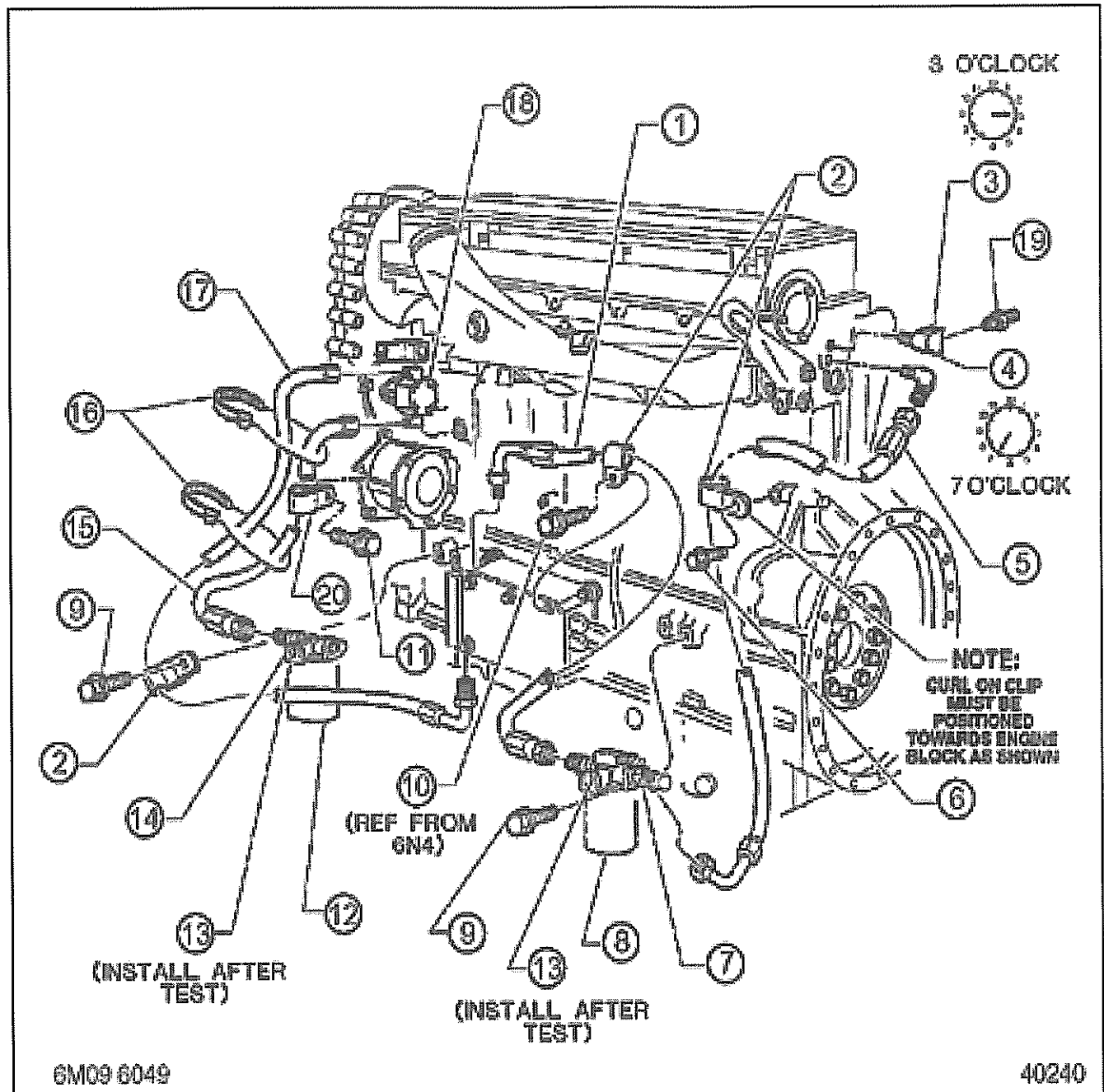


FIG 1 of 02.3A

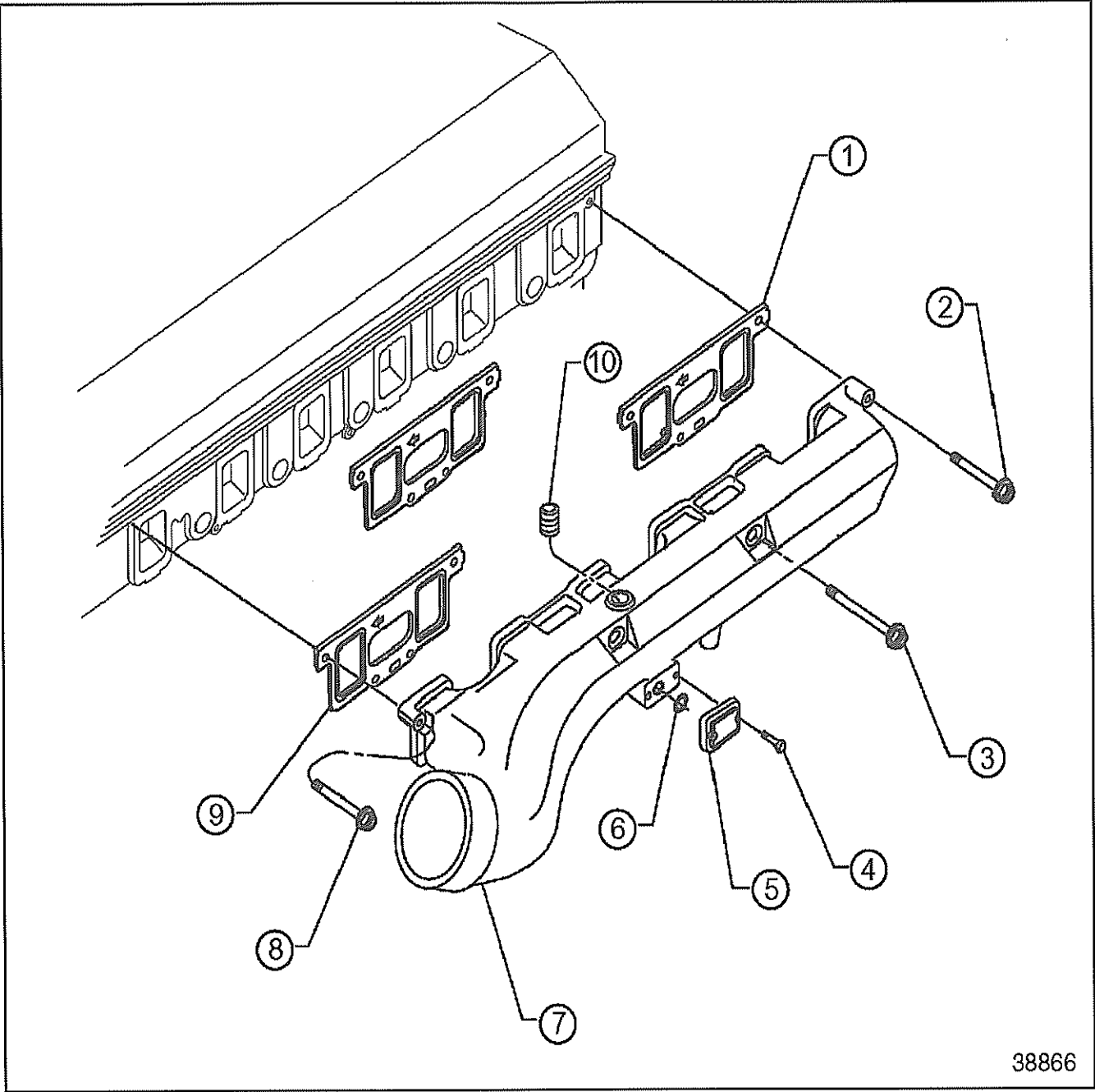
					TYPES									
02.3A FUEL FILTER AND STRAINER					8									
					4									
FIG	PART NO.	NAME AND DESCRIPTION	ASSY.	QTY.	0									
REF.														
02.3A010 ELEMENT, FUEL STRAINER														
	23518481	FILTER, FUEL PRIMARY; USE: 23530706;	NS											
	23530706	FILTER, ELEMENT SPIN ON FUEL PRIMARY	1											
	25010776	ELEMENT, SPIN-ON T-915; USE: 23518481	NS											
02.3A080 COVER, FUEL STRAINER														
	05148023	COVER; USE: 23533673	NS											
	08924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)	3											
	11505299	BOLT, M10 X 1.5 X 30.0 MM	2											
	23533673		1											
02.3A305 FUEL/AIR SEPARATOR														
	23513542	INSTALLATION KIT FOR PRO-CHEK SIDE MT	AR											
		<i>INCLUDES HOSES AND HARDWARE NECESSARY TO RETROFIT EXISTING ENGINES.</i>												
	23513543	PRO-CHEK FUEL/AIR SEPARATOR REAR MT	AR											
	23515444	PRO-CHEK FUEL/AIR SEPARATOR SIDE MT	AR											
02.3A320 ELEMENT, FUEL FILTER														
	23518482	FILTER, FUEL SECONDARY; USE: 23530707;	NS											
	23530707	FILTER, ELEMENT SPIN ON FUEL SECONDARY	1											
	25010778	ELEMENT, SPIN-ON TP-916; USE: 23518482	NS											
02.3A390 COVER, FUEL FILTER														
	05148171	COVER; USE: 23533674	NS											
	11505299	BOLT, M10 X 1.5 X 30.0 MM	2											
	23518092	SENSOR ASSY., OIL WATER FUEL & AIR TEMPERATURE	1											
	23526109	VALVE ASSY., FUEL SHUTOFF 90DEG BALL VALVE	1											
	23533674		1											

				TYPES									
02.5A FUEL LINES AND FUEL COOLER													
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.										
	02.5A060	HOSE, FUEL PUMP INLET		2									
	MBHH0160	HOSE ASSY., #6 X 16"L. H&H	1	2									
	MBHH0165	HOSE ASSY.,#8 X 16.5"L H&H; USE: MBHH0160	NS	7									
	02.5A070	CLIP, STRAINER TO FUEL PUMP		6									
	02362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)	1										
	02.5A110	HOSE, FUEL PUMP OUTLET TO FILTER											
	BAHH0356	HOSE ASSY., #6 X 37.9 H&H	1										
	02.5A160	HOSE, FILTER TO CYLINDER HEAD											
	08929725	ELBOW, .80" RESTRICTION, 3/8"PIPE X5/16" (2.5210)	1										
	08929832	ELBOW, 90 DEG. 3/8 INV FLD TUBE 3/8 PIPE (12.9480)	1										
	23513205	ELBOW, 90 DEG. 3/8" FL TUBE 3/8" PIPE; USE: 08929832	NS										
	MAHP0237	HOSE ASSY.,#6 X 23.7 H&P	1										
	02.5A180	CLIP, CYLINDER HEAD INLET											
	02236474	CLIP, #10	1										
	11504986	BOLT, M8 X 1.25 X 14 MM	1										
	02.5A209	VALVE, FUEL DRAIN CHECK											
	23516918	VALVE CHK FUEL 3/8 NPTF MALE	1										
	02.5A255	SHIELDING, FLEXIBLE HOSE											
	05101020	STRAP, NYLON (2.5255)	1										

- 01 **ENGINE (LESS MAJOR ASSEMBLIES)**
 - 01.1 CYLINDER BLOCK
 - 01.2 CYLINDER HEAD
 - 01.2A ENGINE LIFTER BRACKET
 - 01.3 CRANKSHAFT, OIL SEALS AND STABILIZERS
 - 01.3A CRANKSHAFT FRONT COVER
 - 01.3B VIBRATION DAMPER
 - 01.3C CRANKSHAFT PULLEY
 - 01.4A FLYWHEEL
 - 01.5A FLYWHEEL, HOUSING
 - 01.6 CONNECTING ROD AND PISTON
 - 01.7 CAMSHAFT AND GEAR TRAIN
 - 01.8 VALVE AND INJECTOR OPERATING MECHANISM
 - 01.8A ROCKER COVER
- 02 **FUEL SYSTEM**
 - 02.1A FUEL INJECTOR/CNG CONTROLS
 - 02.1B INJECTOR, CONTROLS ELECTRONIC
 - 02.2 FUEL PUMP
 - 02.3A FUEL FILTER AND STRAINER
 - 02.5A FUEL LINES AND FUEL COOLER
- 03 **AIR SYSTEM**
 - 03.3C AIR INTAKE MANIFOLD
 - 03.5A TURBOCHARGER, INTERCOOLER AND AFTERCOOLER
- 04 **LUBRICATING SYSTEM**
 - 04.1A OIL PUMP
 - 04.1B OIL DISTRIBUTION SYSTEM
 - 04.1C OIL PRESSURE REGULATOR
 - 04.2A OIL FILTER
 - 04.4A OIL COOLER AND MARINE GEAR LINES
 - 04.5A OIL FILLER
 - 04.6A DIPSTICK
 - 04.7A OIL PAN
 - 04.8A VENTILATING SYSTEM
- 05 **COOLING SYSTEM**
 - 05.1 FRESH WATER PUMP
 - 05.2B THERMOSTAT
 - 05.2C WATER BYPASS TUBE
 - 05.3B WATER CONNECTIONS
 - 05.4A FAN
- 06 **EXHAUST SYSTEM**
 - 06.1A EXHAUST MANIFOLD AND/OR CONNECTIONS
 - 06.2A EXHAUST MUFFLER AND/OR CONNECTIONS
- 07 **ELECTRICAL INSTRUMENTS**
 - 07.1A BATTERY, CHARGING GENERATOR
 - 07.3A STARTING MOTOR
- 11 **ENGINE MOUNTING**
 - 11.1A ENGINE MOUNTING AND BASE

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FIG 1 of 03.3C

				TYPES									
03.3C AIR INTAKE MANIFOLD					2								
					8								
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.										
03.3C801		AIR INTAKE MANIFOLD											
1:10	08922327	PLUG, 1/4" NPTF (12.9550)	2										
	08923916	PLUG, 1/2" PIPE (12.9550)	1										
1:3	11509526	BOLT, M10 X 1.5 X 130 MM	4										
1:2	11509799	BOLT, M10 X 1.5 X 70 MM	2										
	23505051	BOLT M10 X 1.5 X 170	1										
1:7	23517437	MANIFOLD AIR INT SETBACK 1/2 SC BOSS	1										
03.3C803		GASKET, AIR INTAKE MANIFOLD											
1:1	23517875	GASKET AIR INT MFD STL RUB CTD S50/60	3										

DETROIT DIESEL

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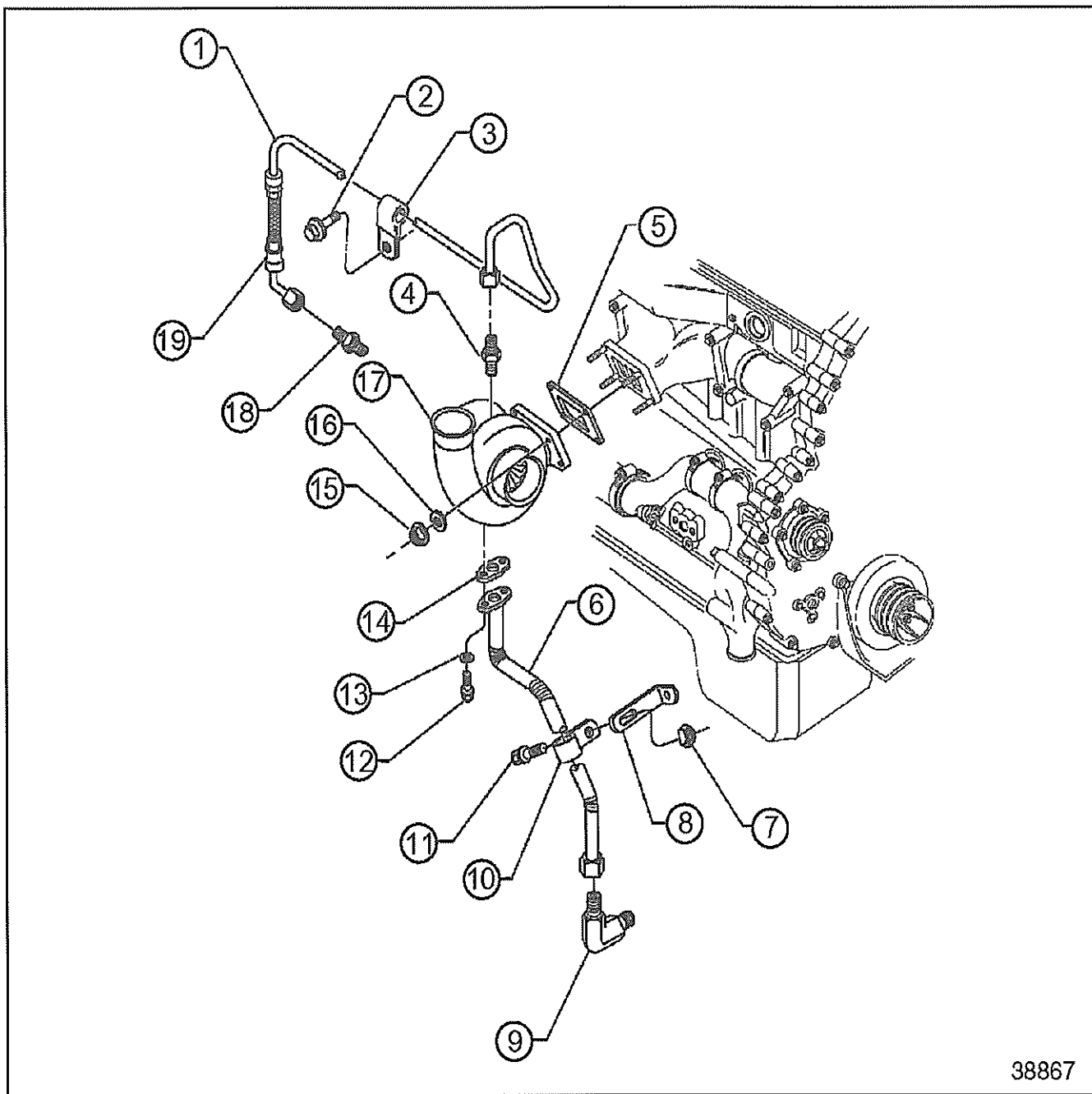


FIG 1 of 03.5A

DETROIT DIESEL

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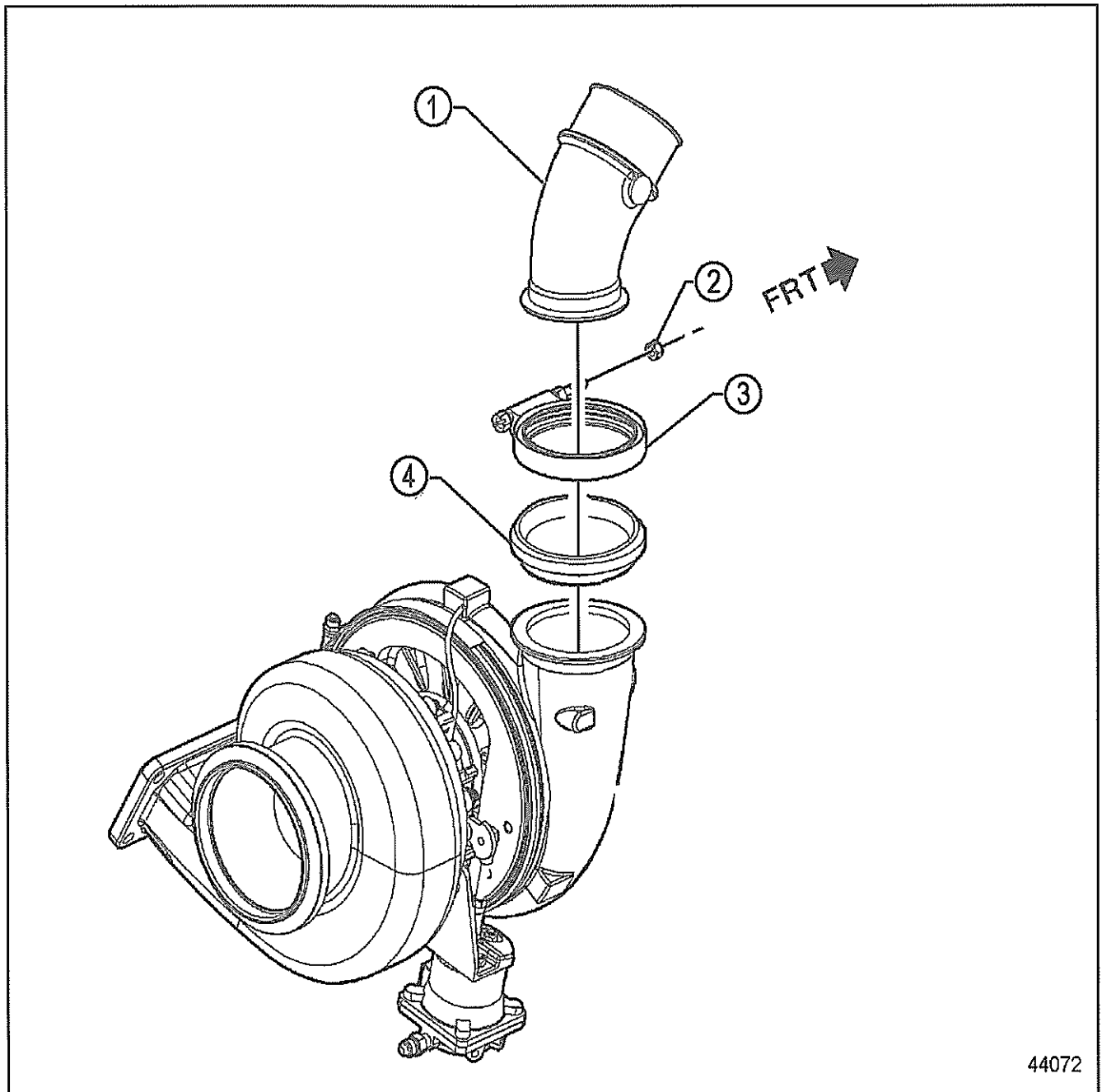


FIG 2 of 03.5A

				TYPES											
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.												
				1	2										
				8	0										
				0	0										
03.5A TURBOCHARGER, INTERCOOLER AND AFTERCOOLER				0	0										
03.5A001 TURBOCHARGER															
1:16	08929169	WASHER (12.9190)		4											
1:15	11506101	NUT, M10 X 1.5		4											
1:17	23523197	TURBOCHARGER ASSY., 1.34 A/R		1											
03.5A022 HOUSING, TURBOCHARGER COMPRESSOR															
2:4	23508408	RING, SEAL TURBO COMP OTLT ELBOW			1										
2:1	23513730	ELBOW, TURBO COMP OTLT 45 DEG.			1										
2:3	23519094	CLAMP ASSY., 4.44" DIA			1										
2:2	23519095	NUT, 1/4-28 LOCK			1										
03.5A305 CONNECTOR, TURBOCHARGER EXHAUST INLET															
	23514035	SPACER-PLATE TURBO DINA S50		1											
03.5A307 GASKET, TURBOCHARGER EXHAUST INLET CONNECTION															
1:5	08929529	GASKET, TURBO EXHAUST INLET		2											
03.5A500 TUBE, TURBOCHARGER OIL SUPPLY															
1:4	08929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)		2											
1:1	23515895	TUBE OIL SUPPLY SCROLL DOWN TURBO S60		1											
03.5A502 CLIP, TURBOCHARGER OIL SUPPLY TUBE															
	05109000	BRACKET,CLIP		1											
1:3	05145994	CLIP, 3/8" TUBE X 1/2" BOLT		1											
	11507036	NUT, M8 X 1.25		1											
1:2	11509511	BOLT, M8 X 1.25 X 20 MM		1											
03.5A505 TUBE, TURBOCHARGER OIL RETURN															
1:12	11509511	BOLT, M8 X 1.25 X 20 MM		2											
1:9	23505039	ELBOW, 90 DEG FLD 3/4 TUBE		1											
1:6	23515354	TUBE TURB OIL DRN FLEX SST MED MT		1											
03.5A506 GASKET, TURBOCHARGER OIL RETURN TUBE															
1:14	08929285	GASKET (3.5505)		1											
03.5A507 CLIP, TURBOCHARGER OIL RETURN TUBE															
1:10	02476233	CLIP, .750" DIA., 3/8" BOLT		1											
1:8	05144629	BRACKET, CLIP 90 DEG.		1											
1:7	11507036	NUT, M8 X 1.25		1											
1:11	11509511	BOLT, M8 X 1.25 X 20 MM		1											

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 - 01.5A FLYWHEEL, HOUSING
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 - 02.1B INJECTOR, CONTROLS ELECTRONIC
 - 02.2 FUEL PUMP
 - 02.3A FUEL FILTER AND STRAINER
 - 02.5A FUEL LINES AND FUEL COOLER
- 03 **AIR SYSTEM**
 - 03.3C AIR INTAKE MANIFOLD
 - 03.5A TURBOCHARGER, INTERCOOLER AND AFTERCOOLER
- 04 **LUBRICATING SYSTEM**
 - 04.1A OIL PUMP
 - 04.1B OIL DISTRIBUTION SYSTEM
 - 04.1C OIL, PRESSURE REGULATOR
 - 04.2A OIL FILTER
 - 04.4A OIL COOLER AND MARINE GEAR LINES
 - 04.5A OIL, FILLER
 - 04.6A DIPSTICK
 - 04.7A OIL PAN
 - 04.8A VENTILATING SYSTEM
- 05 **COOLING SYSTEM**
 - 05.1 FRESH WATER PUMP
 - 05.2B THERMOSTAT
 - 05.2C WATER BYPASS TUBE
 - 05.3B WATER CONNECTIONS
 - 05.4A FAN
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 - 06.1A EXHAUST MANIFOLD AND/OR CONNECTIONS
 - 06.2A EXHAUST MUFFLER AND/OR CONNECTIONS
- 07 **ELECTRICAL INSTRUMENTS**
 - 07.1A BATTERY, CHARGING GENERATOR
 - 07.3A STARTING MOTOR
- 11 **ENGINE MOUNTING**
 - 11.1A ENGINE MOUNTING AND BASE

					TYPES									
04.1A OIL PUMP					1									
					9									
FIG	PART NO.	NAME AND DESCRIPTION	ASSY.	QTY.	8									
REF.														
	04.1A001	PUMP ASSY., OIL <i>A PUMP ASSY. INCLUDES ITEMS IN 4.1040, 4.1065, 4.1075, 4.1090 AND 4.1220.</i>												
	08929011	PIN, 25L, DOWEL		1										
	08929393	BOLT, M10 X 1.5 X 70.0 (12.9001)		2										
	11502826	BOLT, M10 X 1.5 X 40.0		2										
	23505885	DOWEL, SLEEVE OIL PUMP		1										
	23505886	PUMP ASSY., RT. SIDE ENGINE		1										
	R23505886	REMANUFACTURED 23505886		AR										
	04.1A003	OVERHAUL KIT, OIL PUMP <i>AN OVERHAUL KIT INCLUDES ITEMS IN 4.1065, 4.1075, 4.1520, 4.1590 AND 4.1730.</i>												
	23511065	OVERHAUL KIT, RT SIDE ENGINE		1										
	04.1A030	SHIM, OIL PUMP SHIM (.0055" THK.)		AR										
	23508740													
	04.1A040	BODY, OIL PUMP <i>BODY ASSY. INCLUDES BUSHINGS IN 4.1050.</i>												
	23505878	BODY ASSY., RT. SIDE ENGINE		1										
	04.1A050	BUSHING, OIL PUMP BODY BUSHING, SHAFT & DRIVE GEAR		2										
	23505879													
	04.1A065	SHAFT AND GEAR ASSY., OIL PUMP DRIVE SHAFT & GEAR ASSY., OIL PUMP		1										
	23505882													
	04.1A075	SHAFT AND GEAR ASSY., OIL PUMP DRIVEN SHAFT & GEAR ASSY., OIL PUMP		1										
	23507337													
	04.1A090	GEAR, OIL PUMP DRIVE GEAR, 69 TEETH		1										
	23505884													
	04.1A220	COVER, OIL PUMP <i>A COVER ASSY. INCLUDES BUSHINGS IN 4.1220</i>												
	11509511	BOLT, M8 X 1.25 X 20 MM		2										
	11509514	BOLT, M8 X 1.25 X 50 MM		2										
	23505879	BUSHING, SHAFT & DRIVE GEAR		2										
	23505883	COVER ASSY, OIL PUMP		1										

DETROIT DIESEL

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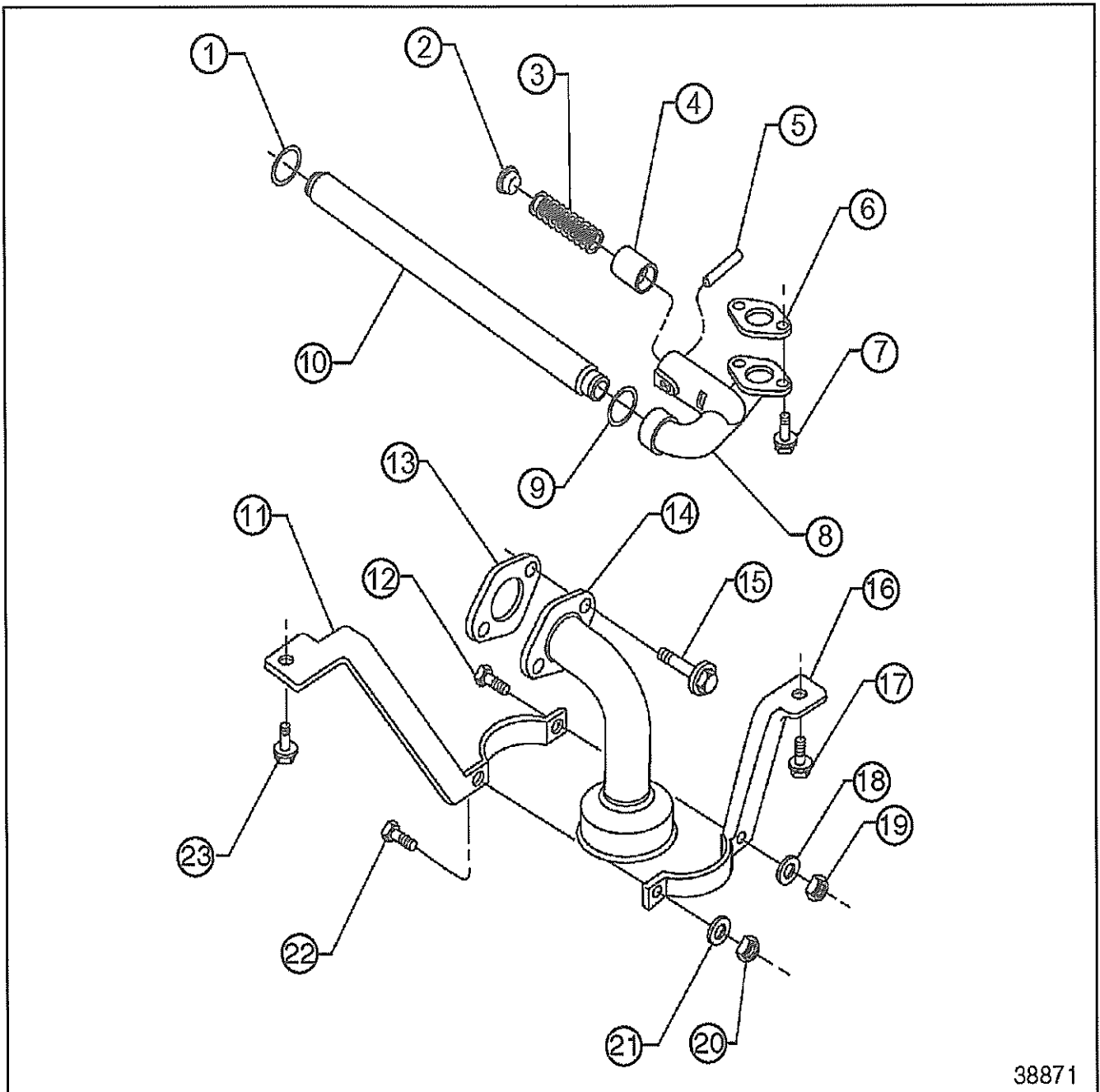
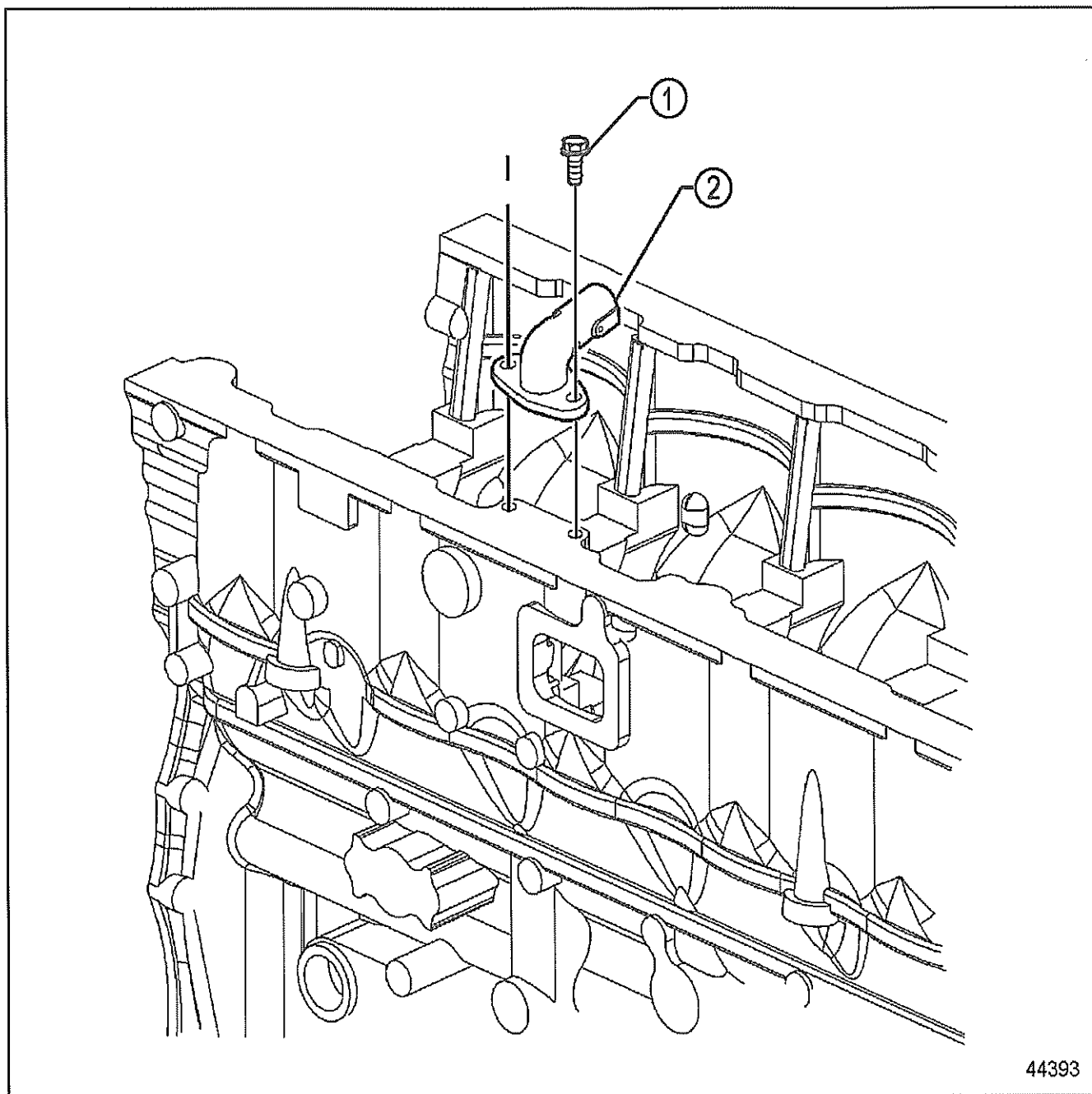


FIG 1 of 04.1B

04.1B OIL DISTRIBUTION SYSTEM					TYPES									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.											
	04.1B510	PIPE, OIL PUMP INLET		5										
1:15	11509514	BOLT, M8 X 1.25 X 50 MM		9										
1:14	23506683	TUBE & SCREEN ASSY, OIL PUMP		4										
	04.1B520	GASKET, OIL PUMP INLET PIPE												
1:13	23505992	GASKET, OIL INLET TUBE TO PUMP		2										
	04.1B540	BRACKET, OIL PUMP SCREEN SUPPORT		1										
1:11	08929104	BRACKET												
1:19	11502812	NUT, M10 X 1.5		2										
1:12	11505299	BOLT, M10 X 1.5 X 30.0 MM		2										
	04.1B580	PIPE, OIL PUMP OUTLET		4										
1:7	11504822	BOLT, M8 X 1.25 X 30												
1:10	23505890	TUBE, OIL PUMP OUTLET		2										
1:1	23505891	RING SEAL, OIL PUMP OUTLET		1										
1:9	23505892	RING SEAL, OIL PUMP INLET		1										
	23505893	ELBOW, OIL INLET TO BLOCK; USE: 23514767		1										
	23514767	ELBOW ASM OIL INL & PRESS RLF VLV S60		NS										
	23514738	ELBOW, OIL INL & RELIEF VALVE	1	1										
	00457008	PIN, 3/16" X 1-1/2" SPRING (12.9270)	1	1										
	05126327	SPRING (2.96" FREE LENGTH, 15 COILS, CLO	1	1										
	05117957	SEAT	1	1										
	08922740	VALVE	1	1										
	04.1B590	GASKET, OIL PUMP OUTLET PIPE												
1:6	08929347	GASKET (TO BLOCK)		1										

DETROIT DIESEL**SERIES 60****FIG 1 of 04.1C**

04.1C OIL, PRESSURE REGULATOR				TYPES									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	3									
	04.1C670	REGULATOR, OIL PRESSURE A PUMP KIT INCLUDES PUMP ASSY. AND SEAL RING.		8									
1:1	11504822	BOLT, M8 X 1.25 X 30		2									
1:2	23512901	REGULATOR ASSY.		1									
	00457008	PIN, 3/16" X 1-1/2" SPRING (12.9270)	1										
	08929283	BODY, REGULATOR	1										
	05126327	SPRING (2.96" FREE LENGTH, 15 COILS, CLO	1										
	08922740	VALVE	1										
	23512900	SEAT	1										

DETROIT DIESEL

SERIES 60

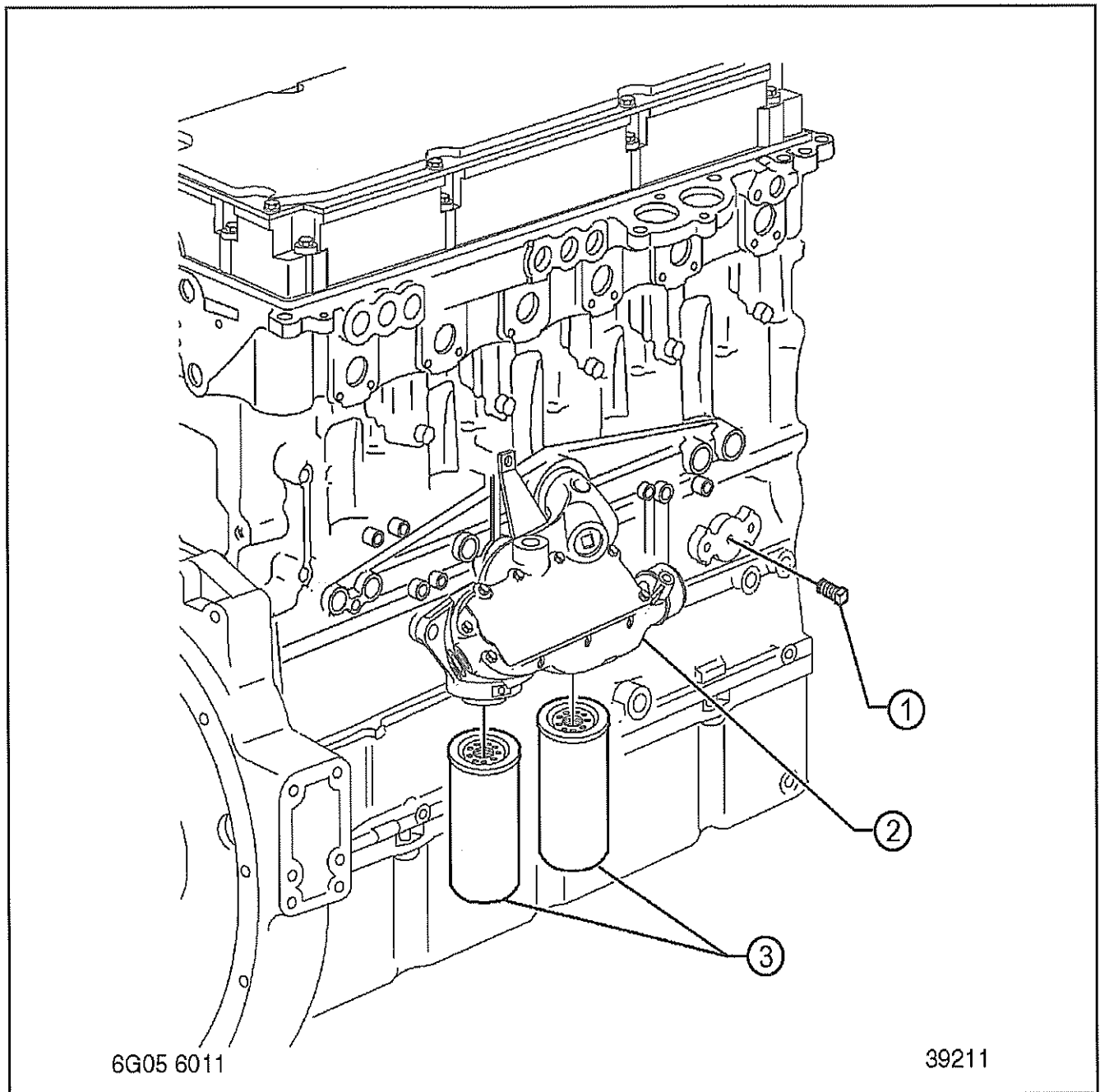


FIG 1 of 04.2A

DETROIT DIESEL

SERIES 60

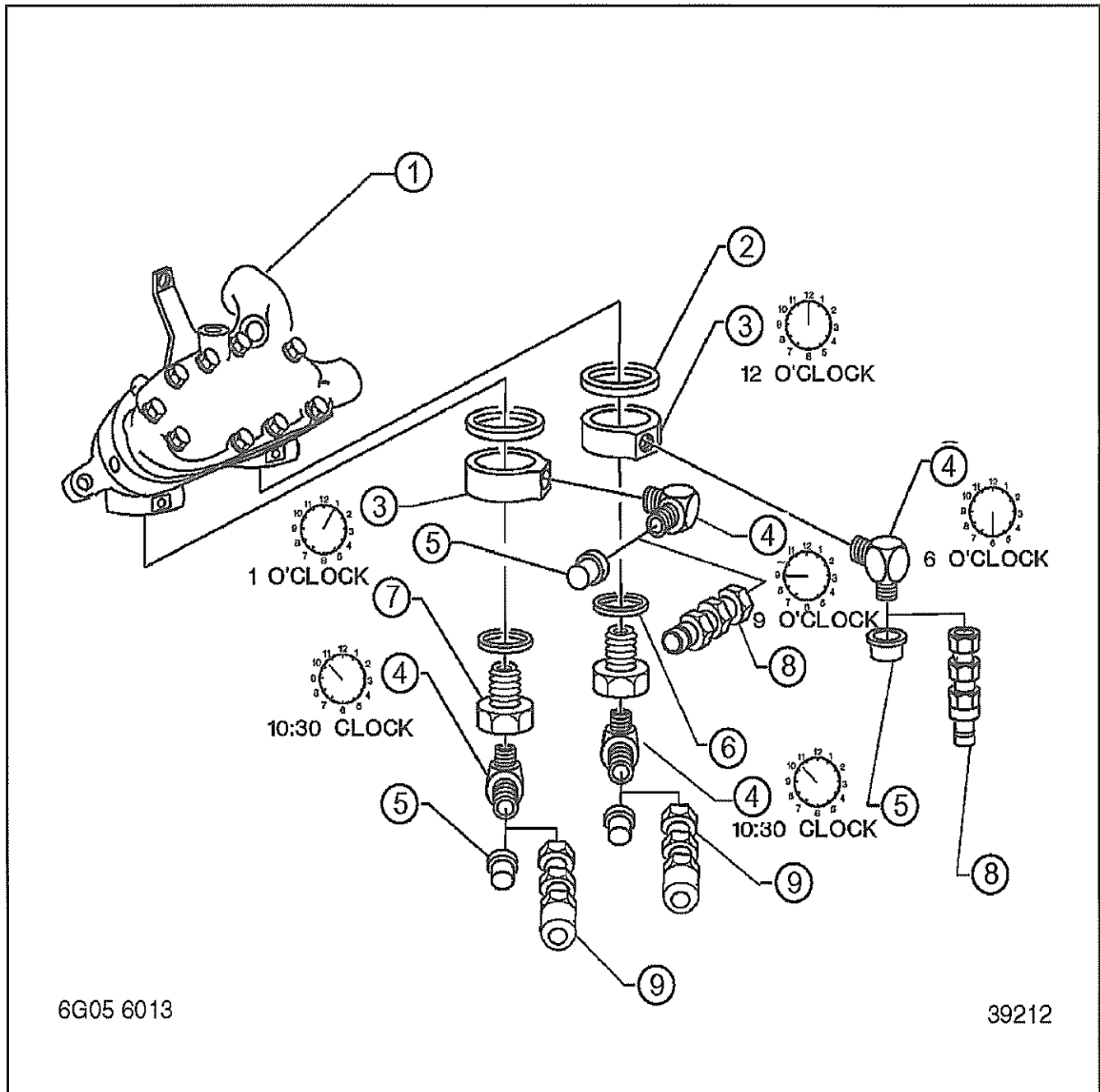


FIG 2 of 04.2A

DETROIT DIESEL

SERIES 60

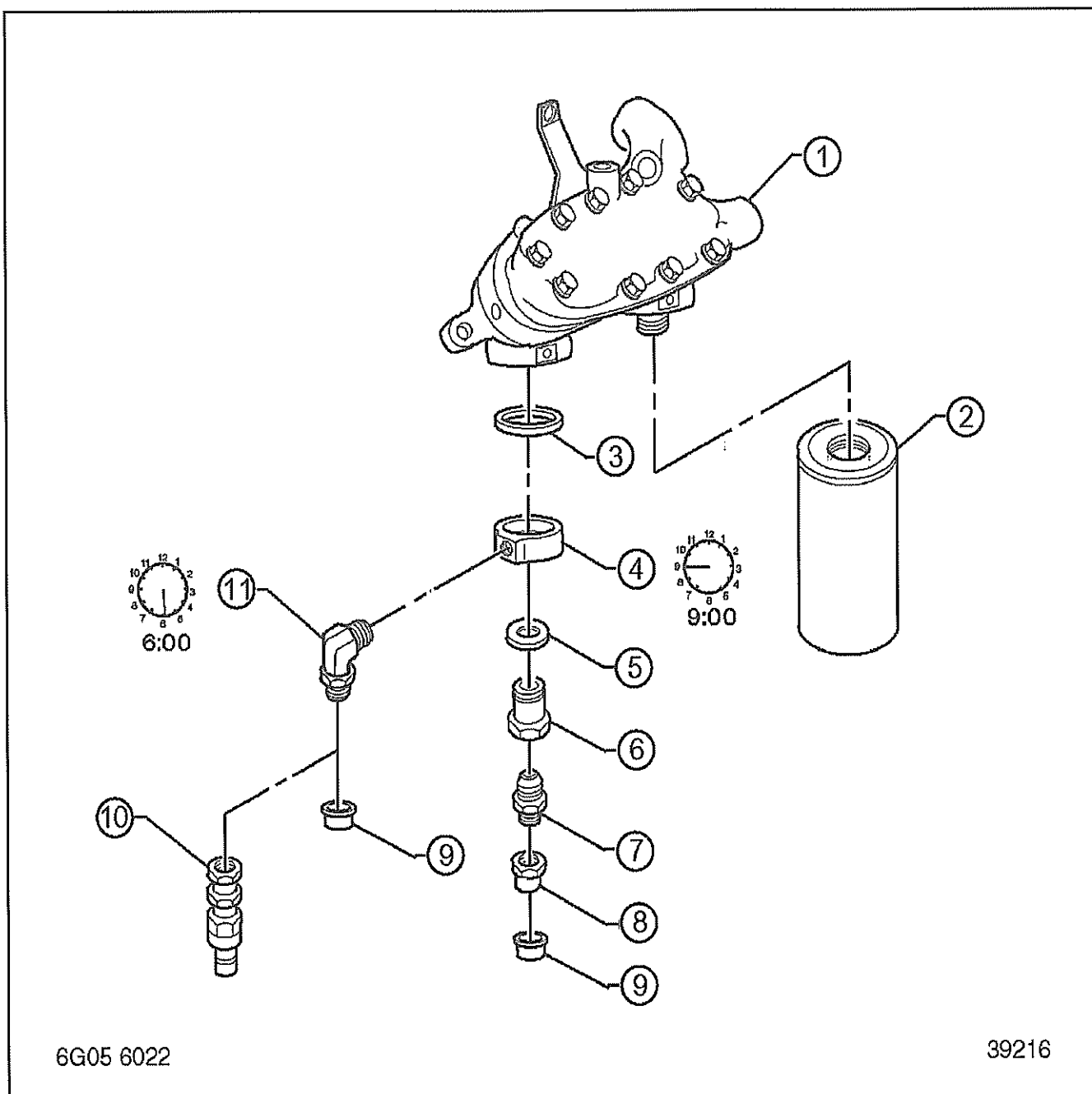


FIG 3 of 04.2A

				TYPES									
04.2A OIL FILTER					6								
					3								
					8								
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.										
04.2A250		ELEMENT, OIL FILTER											
1:3	23518480	FILTER, LUBE OIL SPIN ON; USE: 23527033	NS										
	23527033	FILTER, ELEMENT SPIN ON LUBE OIL; USE: 23530573;	NS										
	23530573	FILTER, ELEMENT SPIN ON	2										
04.2A291		ADAPTOR, OIL FILTER COVER											
1:1	08923847	PLUG, PIPE 1/4-18" NPTF	1										

				TYPES											
04.4A OIL COOLER AND MARINE GEAR LINES															
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.												

DETROIT DIESEL

SERIES 60

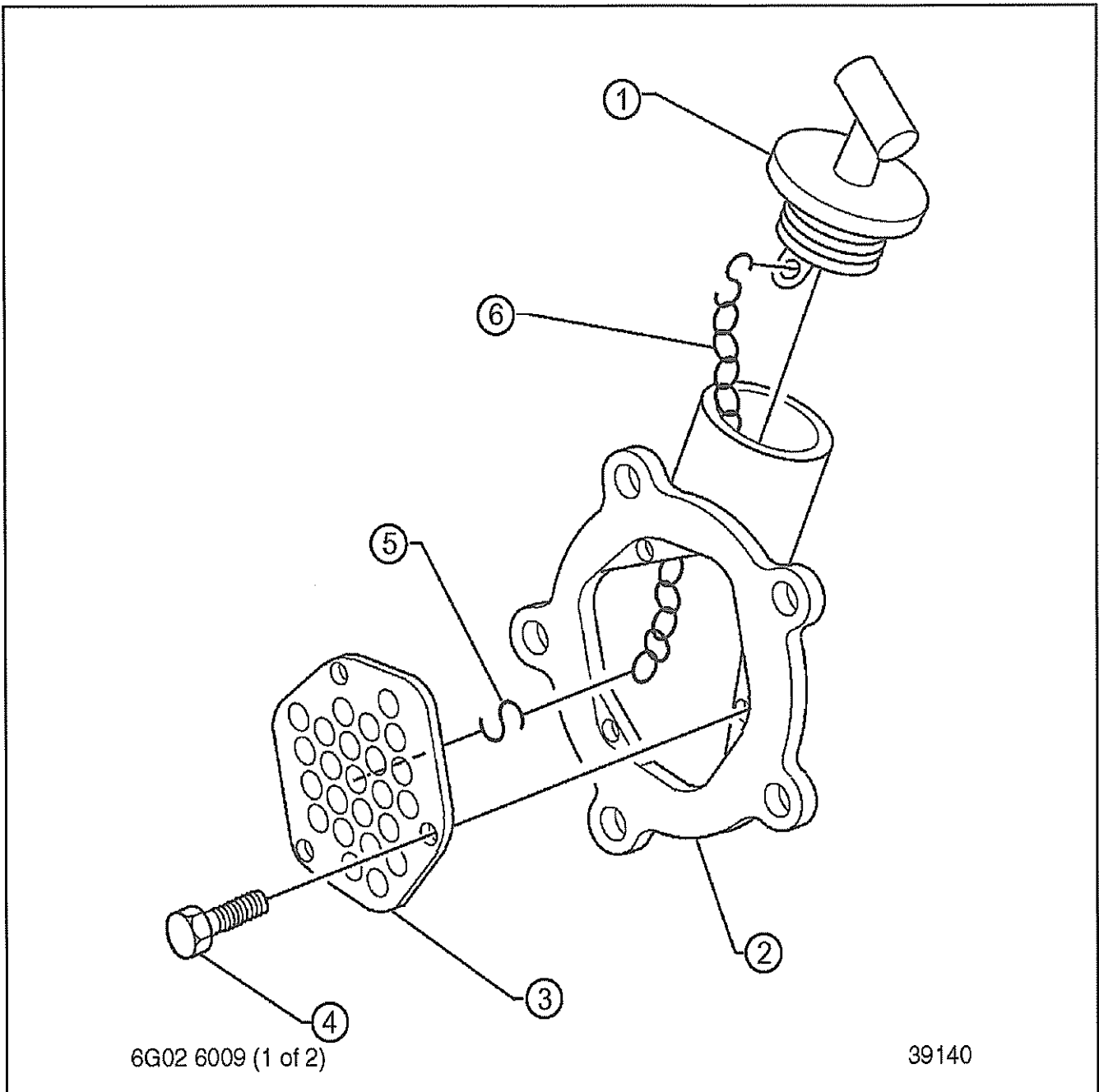


FIG 1 of 04.5A

DETROIT DIESEL

SERIES 60

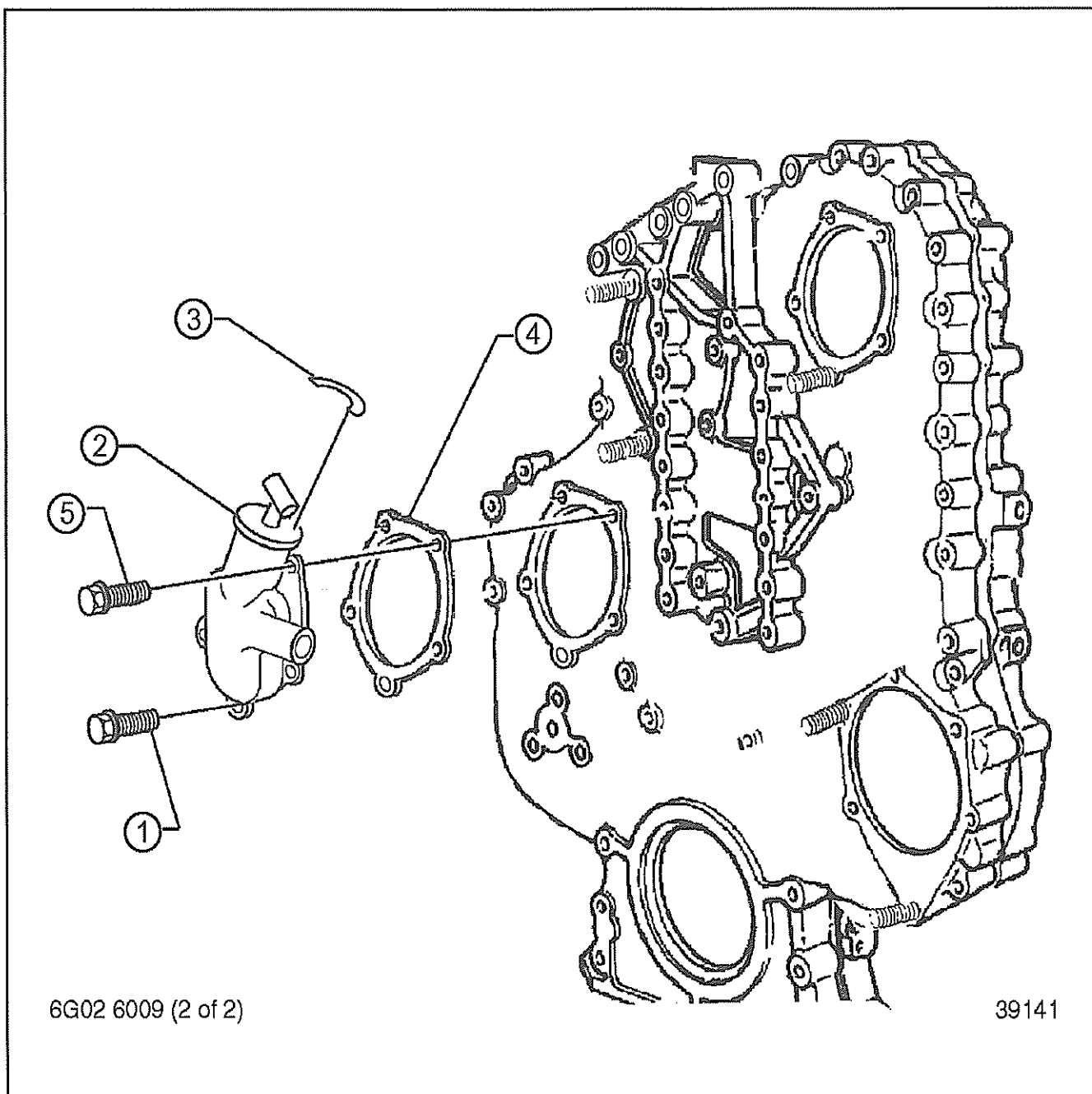


FIG 2 of 04.5A

DETROIT DIESEL

SERIES 60

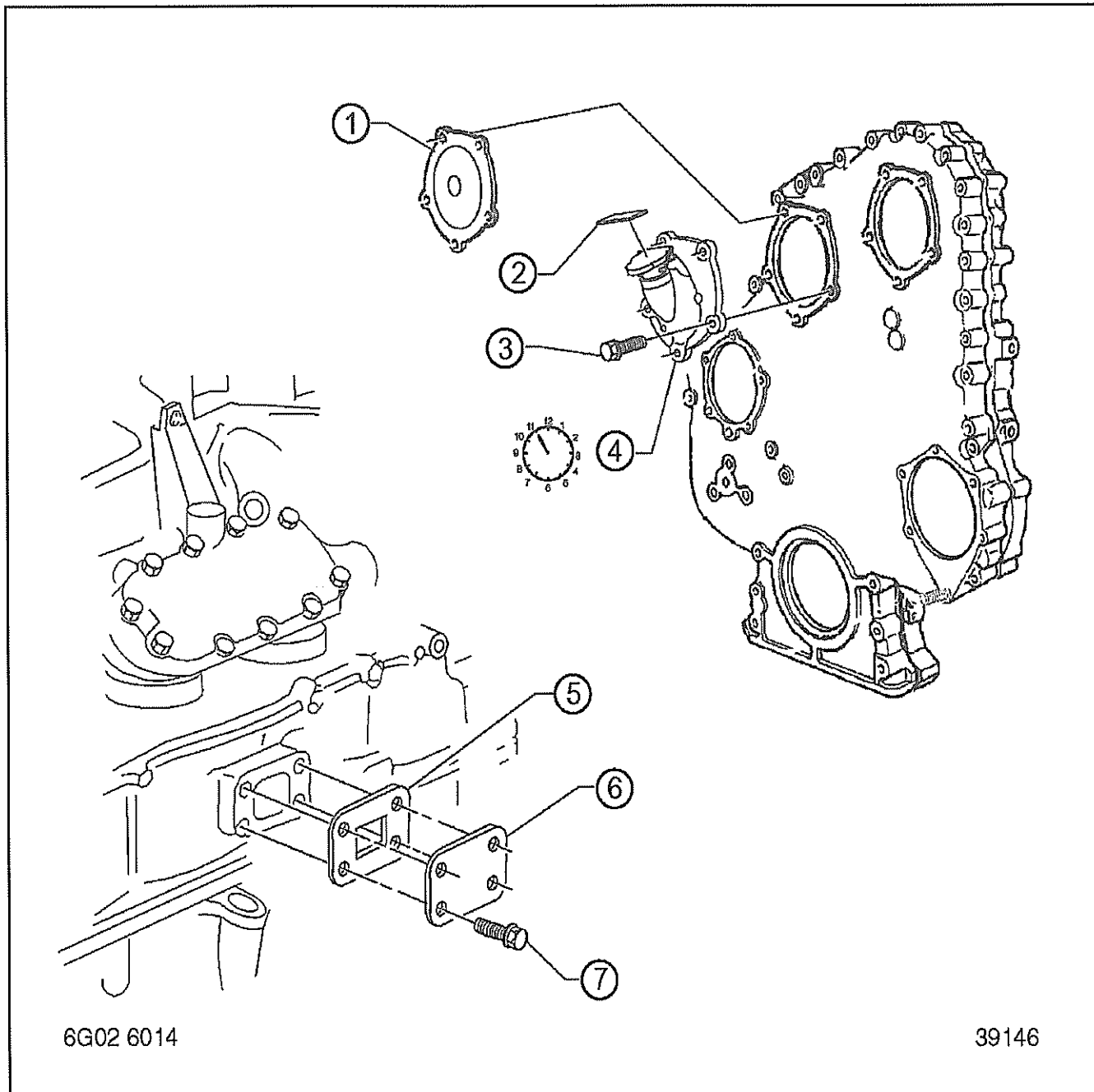


FIG 3 of 04.5A

				TYPES										
04.5A OIL, FILLER					1									
					9									
FIG	PART NO.	NAME AND DESCRIPTION	ASSY.	4										
REF.			QTY.											
04.5A010														
1:1	05117362	CAP, OIL FILLER		1										
	23514362	CAP, OIL FILLER												
		LABEL-OIL FILL CAP S50/60		1										
04.5A020														
1:4	11503804	STRAINER, OIL FILLER TUBE		3										
1:3	23513642	SCREW ASSY.												
		SCREEN		1										
04.5A030														
1:5	05107979	CHAIN, OIL FILLER CAP												
		HOOK, CHAIN ("S" TYPE) (4.5020)		2										
1:6	05121989	CHAIN SASH 6.50 LG		1										
04.5A070														
2:1	11504822	COVER, OIL FILLER HOLE												
		BOLT, M8 X 1.25 X 30		4										
	11509511	BOLT, M8 X 1.25 X 20 MM		4										
2:5	11509518	BOLT, M8 X 1.25 X 90 MM		1										
1:2	23513641	HOUSING		1										
	23516970	PLATE OIL FILL CVR DCST AL S50/60		1										
04.5A080														
	08929302	GASKET, OIL FILLER HOLE COVER												
		GASKET, 4 HOLE (4.5007)		1										
2:4	23512877	GASKET, COVER (1.3192)		1										

DETROIT DIESEL

SERIES 60

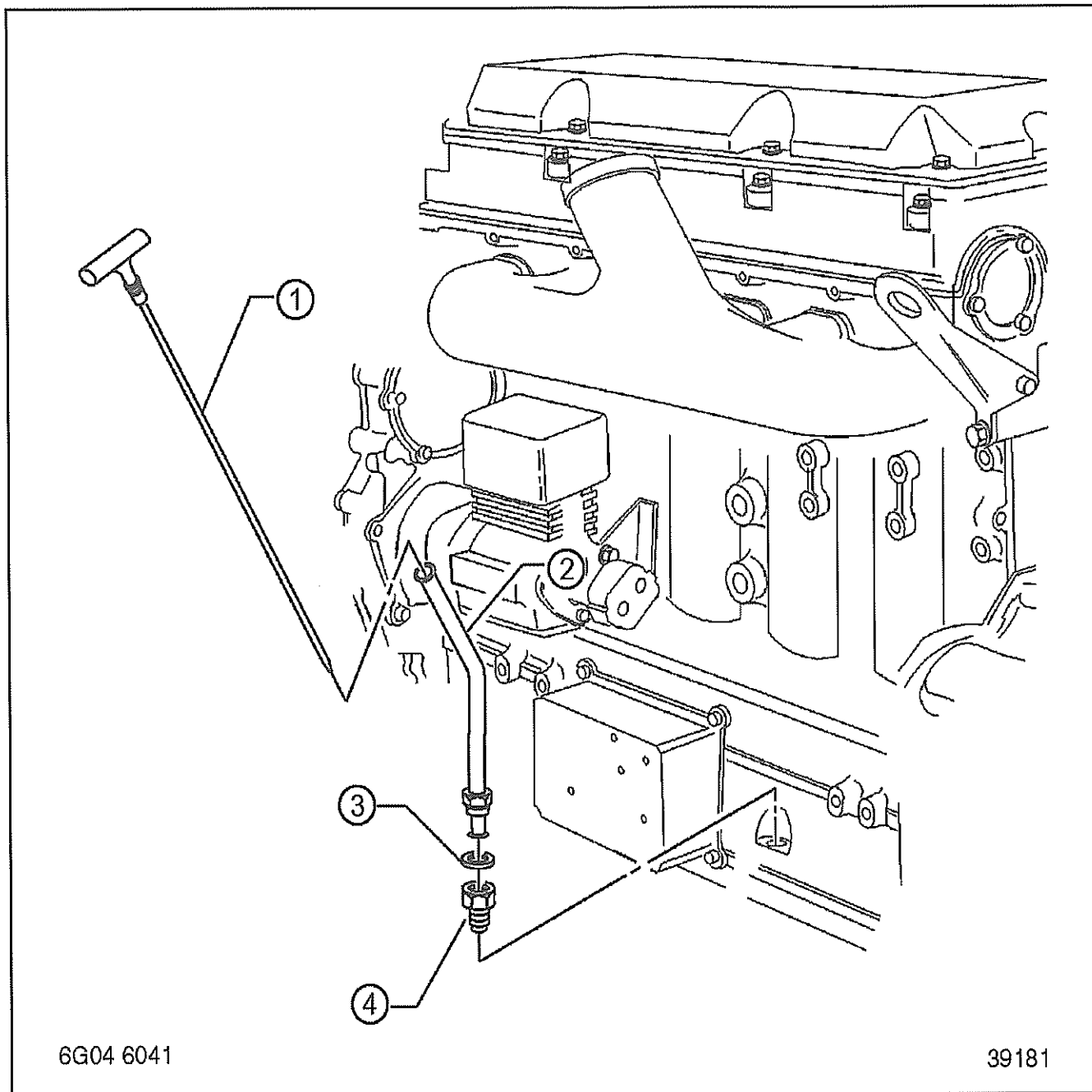


FIG 1 of 04.6A

			TYPES											
04.6A DIPSTICK														
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	1	3	8	8							
	04.6A001	DIPSTICK												
1:1	23517836	GAUGE ASM OIL LVL SNAP LK 16.33LG S60(INCLUDES 23514465 SEAL RING)	1											
	04.6A020	GUIDE, DIPSTICK												
1:4	23513683	GUIDE	1											
	04.6A030	ADAPTOR, DIPSTICK												
1:3	23513842	SEAL OIL LVL GA ADAP	1											
1:2	23514328	TUBE ASM 8.70 LG	1											
	00137401	NUT, 1/2" INV. TUBE	1											

DETROIT DIESEL

SERIES 60

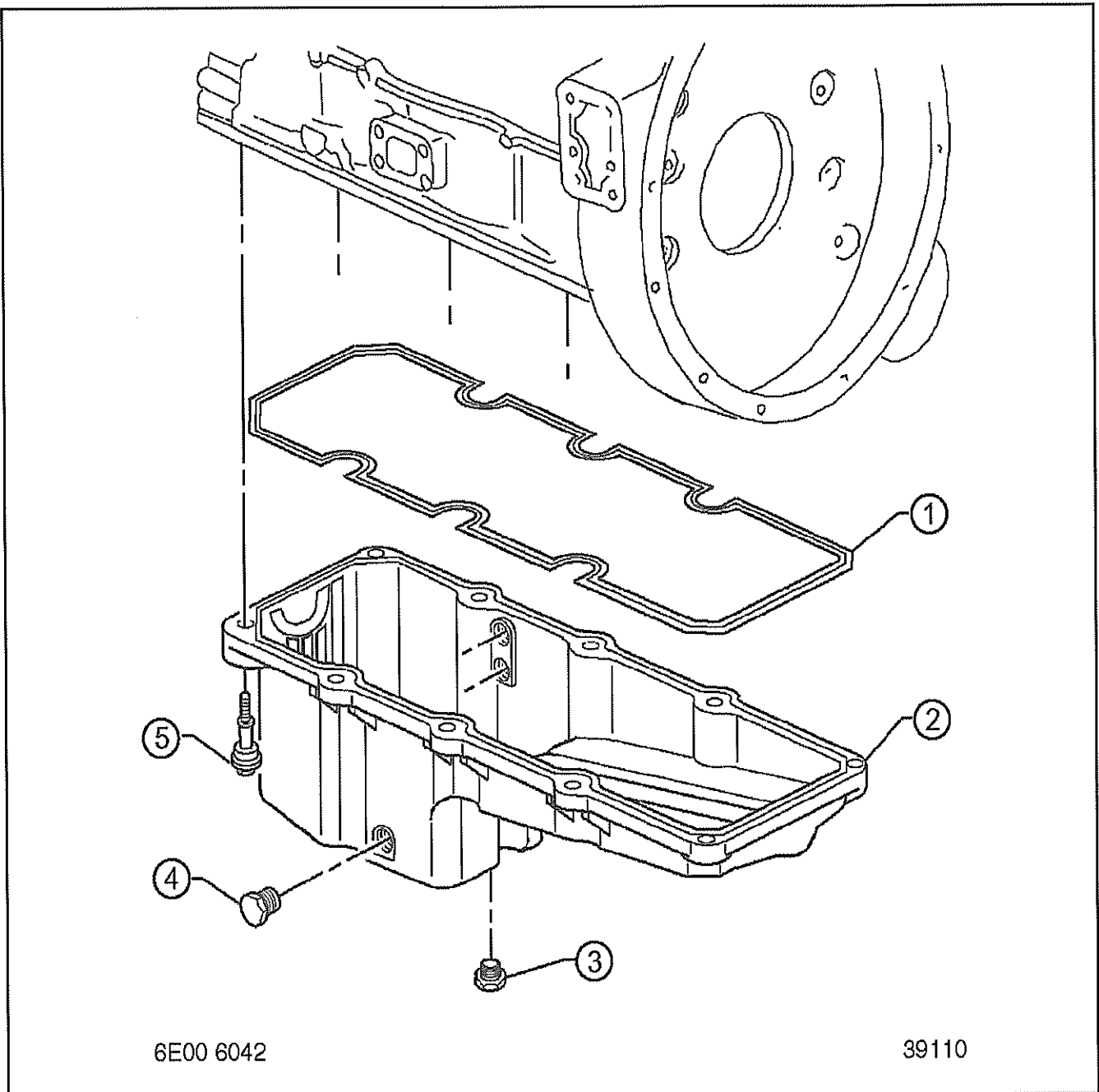


FIG 1 of 04.7A

				TYPES											
04.7A OIL PAN				9											
				6											
FIG	PART NO.	NAME AND DESCRIPTION	ASSY.	8											
REF.			QTY.												
	04.7A001	PAN, OIL													
		<i>OIL PAN ASSYS. INCLUDE PLUGS, INSERTS, SEAL RINGS, AND NUTS IN 4.7001</i>													
1:3	05178994	PLUG, 3/4"-14 NPTF PIPE (4.7080)		1											
1:4	08923313	PLUG, 3/4" PIPE (12.9550)		3											
	23520929	SEAL RING		3											
	23521330	KIT INSERT OIL PAN (W/INSERTS, NUTS & SEAL RINGS)		3											
1:5	23522281	SLEEVE ASSY., OIL PAN BOLT MOD SEAL SYS		10											
1:2	23522283	PAN ASSY., OIL RR SUMP		1											
	04.7A030	GASKET, OIL PAN TO BLOCK													
1:1	23522279	GASKET, OIL PAN W/O CORD MOD SEAL SYS		1											

DETROIT DIESEL

SERIES 60

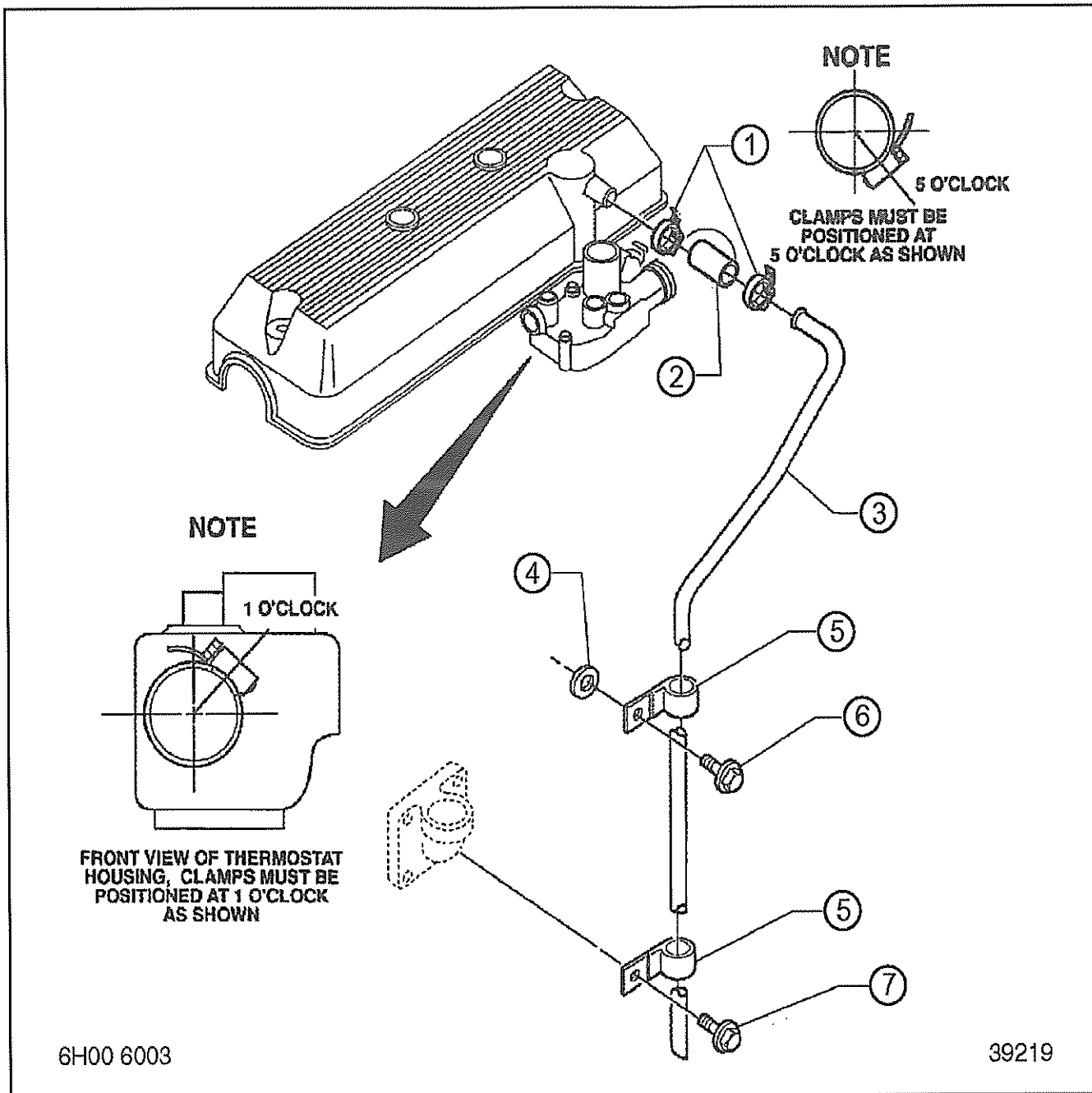


FIG 1 of 04.8A

DETROIT DIESEL

SERIES 60

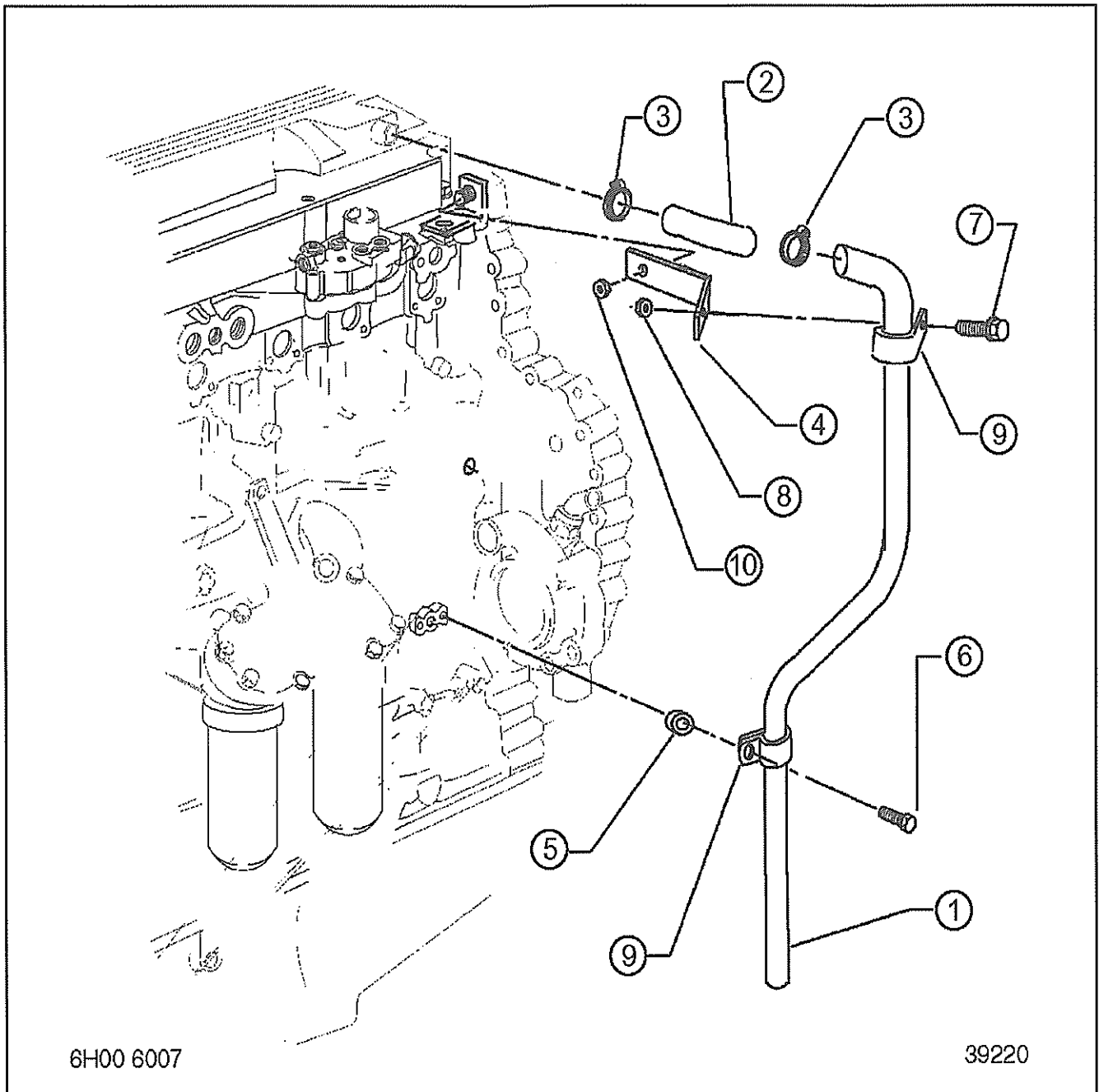


FIG 2 of 04.8A

04.8A VENTILATING SYSTEM				TYPES										
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	1	2	3	4	5	6	7	8	9	10	11
	04.8A001	PIPE ASSY, BREATHER		1	1									
2:1	23517013	TUBE BTHR DRAFT (RKR CVR) 1344.0 LG		6										
2:2	23518315	HOSE 90 DEG 1.0ID 1.80 X 1.0R		2										
	04.8A039	CLAMP, BREATHER TUBE												
2:3	05186840	CLAMP, 1 1/2" I.D. (12.9660)		1										
	04.8A040	CLIP, BREATHER TUBE												
2:5	05160425	SPACER, 13/32"X23/32"		2										
2:8	11506101	NUT, M10 X 1.5		1										
2:10	11507036	NUT, M8 X 1.25		1										
2:7	11509511	BOLT, M8 X 1.25 X 20 MM		1										
2:6	23505062	BOLT, M10 X 1.5 X 40		1										
2:9	23506443	CLIP, #16 HOSE 1" DIA. (4.8183)		1										
2:4	23519756	BRACKET		2										
				1										

- 01 ENGINE (LESS MAJOR ASSEMBLIES)
 - 01.1 CYLINDER BLOCK
 - 01.2 CYLINDER HEAD
 - 01.2A ENGINE LIFTER BRACKET
 - 01.3 CRANKSHAFT, OIL SEALS AND STABILIZERS
 - 01.3A CRANKSHAFT FRONT COVER
 - 01.3B VIBRATION DAMPER
 - 01.3C CRANKSHAFT PULLEY
 - 01.4A FLYWHEEL
 - 01.5A FLYWHEEL, HOUSING
 - 01.6 CONNECTING ROD AND PISTON
 - 01.7 CAMSHAFT AND GEAR TRAIN
 - 01.8 VALVE AND INJECTOR OPERATING MECHANISM
 - 01.8A ROCKER COVER
- 02 FUEL SYSTEM
 - 02.1A FUEL INJECTOR/CNG CONTROLS
 - 02.1B INJECTOR, CONTROLS ELECTRONIC
 - 02.2 FUEL PUMP
 - 02.3A FUEL FILTER AND STRAINER
 - 02.5A FUEL LINES AND FUEL COOLER
- 03 AIR SYSTEM
 - 03.3C AIR INTAKE MANIFOLD
 - 03.5A TURBOCHARGER, INTERCOOLER AND AFTERCOOLER
- 04 LUBRICATING SYSTEM
 - 04.1A OIL PUMP
 - 04.1B OIL DISTRIBUTION SYSTEM
 - 04.1C OIL, PRESSURE REGULATOR
 - 04.2A OIL FILTER
 - 04.4A OIL COOLER AND MARINE GEAR LINES
 - 04.5A OIL, FILLER
 - 04.6A DIPSTICK
 - 04.7A OIL PAN
 - 04.8A VENTILATING SYSTEM
- 05 COOLING SYSTEM
 - 05.1 FRESH WATER PUMP
 - 05.2B THERMOSTAT
 - 05.2C WATER BYPASS TUBE
 - 05.3B WATER CONNECTIONS
 - 05.4A FAN
- 06 EXHAUST SYSTEM
 - 06.1A EXHAUST MANIFOLD AND/OR CONNECTIONS
 - 06.2A EXHAUST MUFFLER AND/OR CONNECTIONS
- 07 ELECTRICAL INSTRUMENTS
 - 07.1A BATTERY, CHARGING GENERATOR
 - 07.3A STARTING MOTOR
- 11 ENGINE MOUNTING
 - 11.1A ENGINE MOUNTING AND BASE

				TYPES									
05.1 FRESH WATER PUMP													
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	3	3	5							
05.1001		PUMP ASSY., FRESH WATER											
		<i>A PUMP KIT INCLUDES PUMP ASSY. AND SEAL RING.</i>											
	11509523	BOLT, M10 X 1.5 X 55 MM	1										
	23505755	BOLT, M10 X 1.5 X 155.0	2										
	23526038	SEAL, O-RING .139"X 5.234"ID	1										
	23526039	(R) PUMP KIT, HI FLOW HT SINK ROT WTR SEAL(POCKET PUMP)	1										
	23511573	PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP	2										
	23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP	1										
	08929594	PLUG, 3/8"-18 DIA. PIPE EXT. HEX. SOC.	1										
	08922383	COVER, NON-METALLIC	1										
	23512048	SEAL RING	1										
	08922407	RING RETAINER	1										
	23505896	SHAFT	1										
	08929422	BEARING ASSY.	1										
	08929427	RING	1										
	23517973	IMPELLER W/PMP C/I 6 VANE S60	1										
	23522433	SEAL, WATER PUMP HEAT SINK ROTOR	1										
	23528190	SEAL, OIL WAT PMP	1										
	23505897	WASHER, SPL WAT PUMP GEAR (5.1110)	1										
	23505910	GEAR, RH 61 TEETH	1										
	23508863	BOLT, M12X1.75X50.0MM	1										

DETROIT DIESEL

SERIES 60

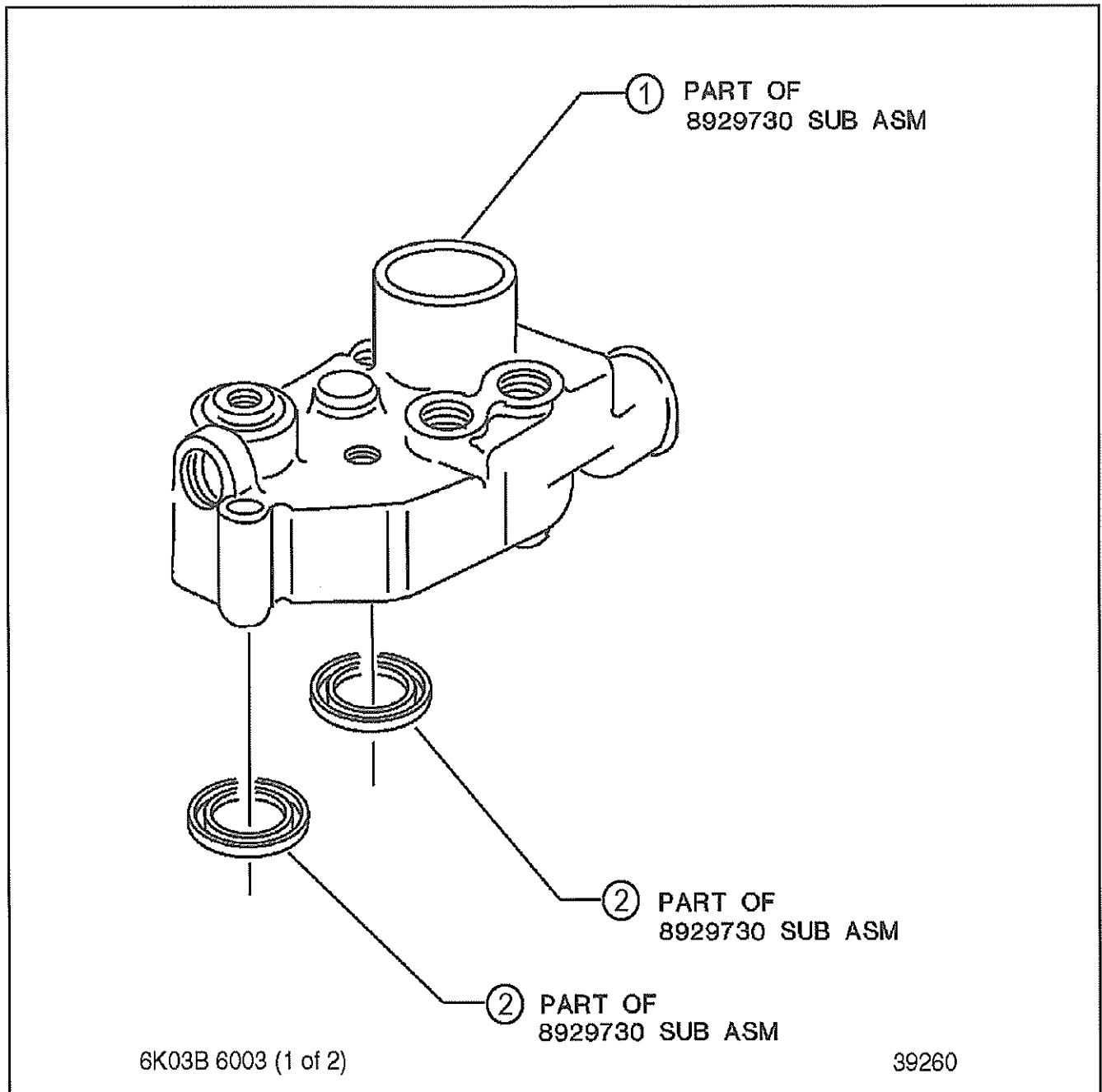


FIG 1 of 05.2B

DETROIT DIESEL

SERIES 60

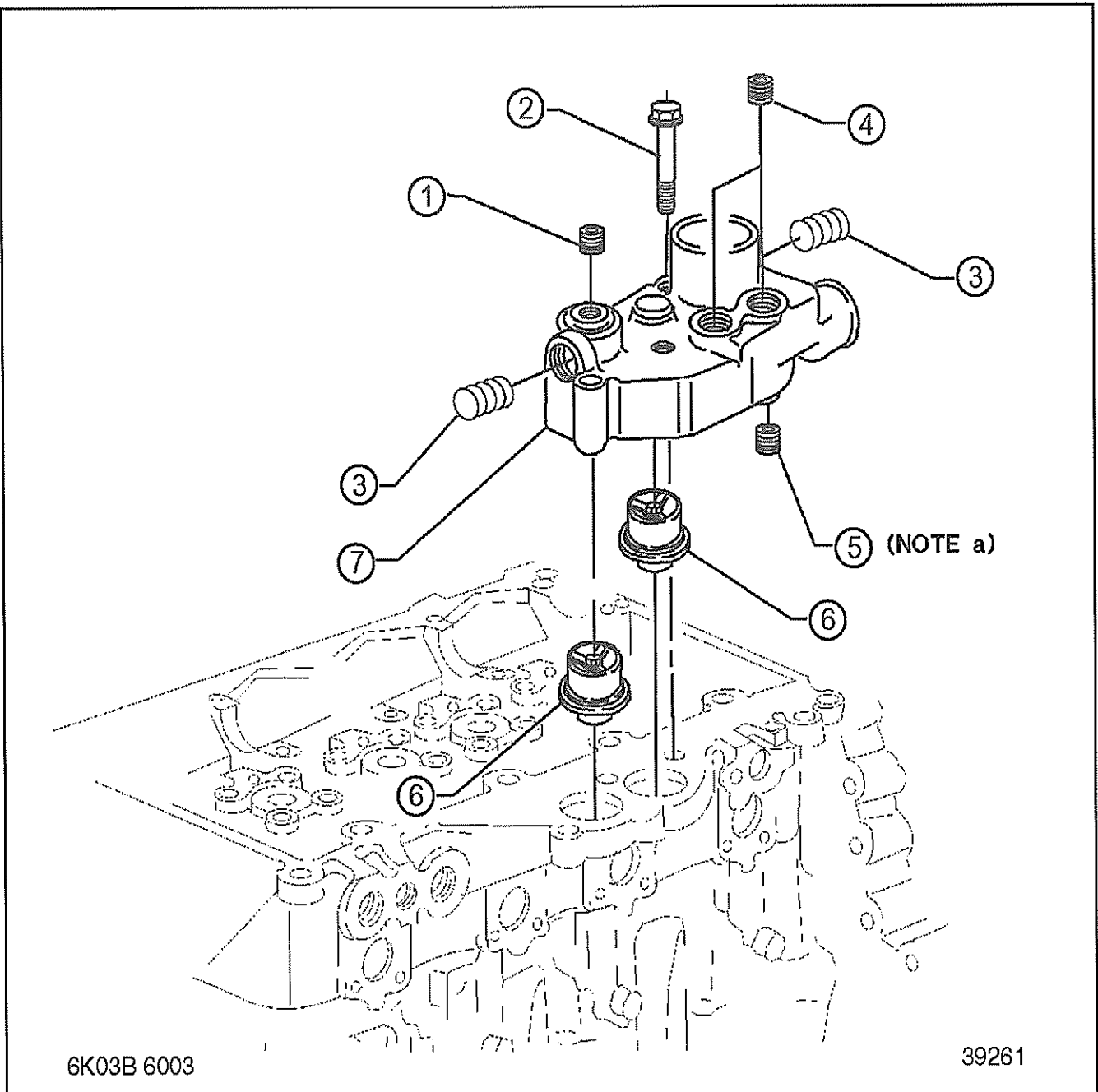


FIG 2 of 05.2B

				TYPES											
05.2B THERMOSTAT															
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	3											
				5											
				8											
	05.2B050	THERMOSTAT ASSY.													
2:6	08929878	THERMOSTAT ASSY. 190 DEG. OPENING TEMP.	2												
	05.2B060	SEAL, THERMOSTAT													
1:2	05132155	SEAL	2												
	23509514	SEAL FLANGE	AR												
	05.2B120	COVER, THERMOSTAT HOUSING													
2:1	05136240	PLUG CAP .42" DIA. (2.2001)	1												
	08924140	DRAINCOCK, 1/4" (12.9510)	1												
1:1,2:7	08929728	COVER	1												
2:2	23505050	BOLT, M10 X 1.5 X 85	4												
2:3	23511572	PLUG, 1/2" NPTF SQ. SOC. (12.9550)	2												
2:4	23511573	PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP	2												

DETROIT DIESEL

SERIES 60

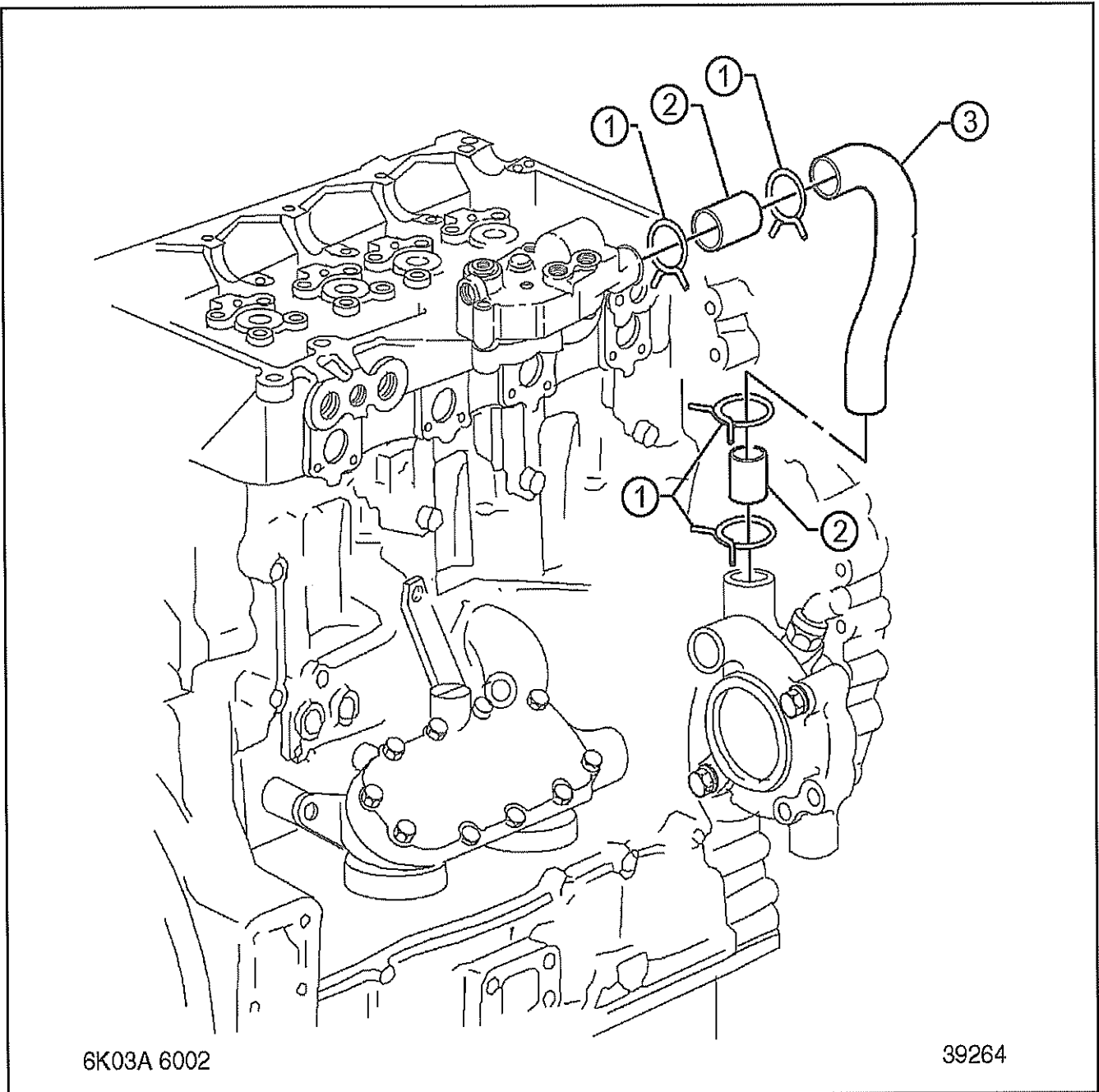


FIG 1 of 05.2C

		TYPES										
		05.2C WATER BYPASS TUBE										
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.									
	05.2C160	TUBE, WATER BYPASS	4									
		TUBE	6									
1:3	23505898		4									
	05.2C165	HOSE, WATER BYPASS TUBE	1									
1:2	08929875	HOSE, 1 3/4" X 3.25"	2									
	05.2C190	CLIP, WATER BYPASS TUBE										
1:1	23505048	CLAMP, 2"-2 1/2" DIA. HOSE	4									

05.3B WATER CONNECTIONS				TYPES											
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	4											
	05.3B400	TUBE, WATER PUMP TO OIL COOLER		5											
	23505899	TUBE (FOR HI & MED MT. TURBO)		9											
				1											
	05.3B401	HOSE, WATER PUMP TO OIL COOLER													
	23520688	KIT, CLAMP TYPE E 3.125 NOM HOSE OD		1											

DETROIT DIESEL

SERIES 60

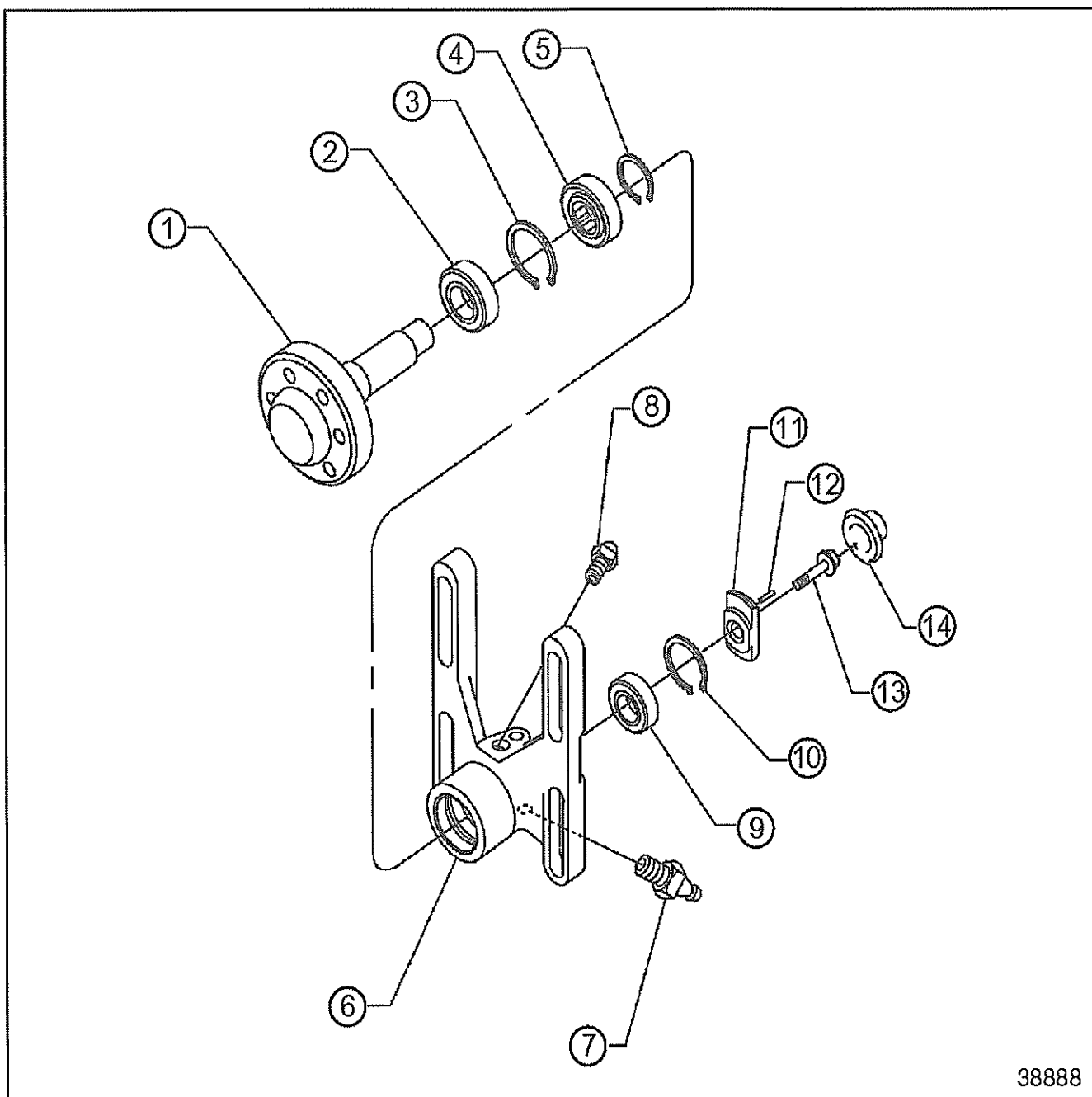


FIG 1 of 05.4A

DETROIT DIESEL

SERIES 60

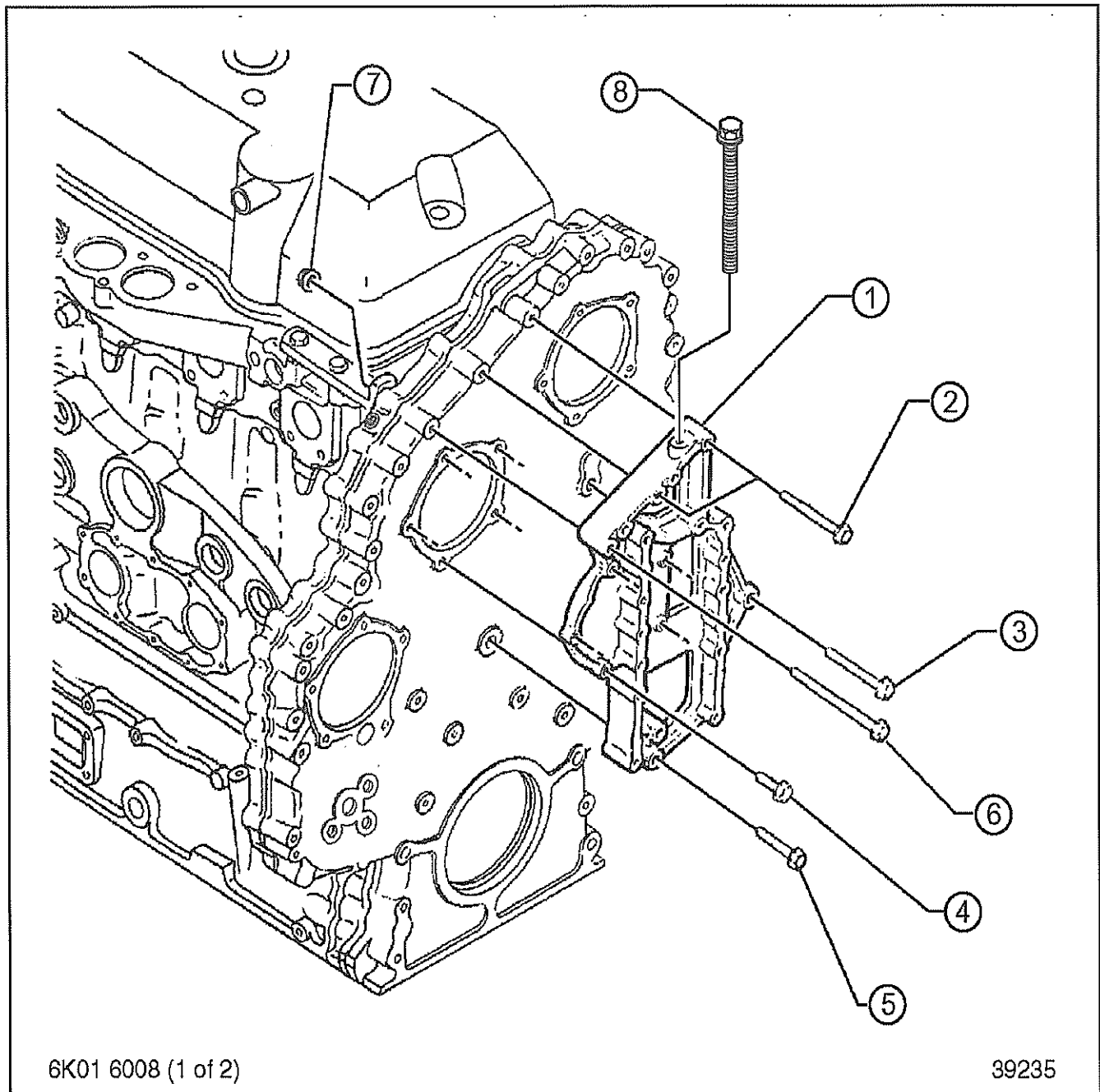


FIG 2 of 05.4A

DETROIT DIESEL

SERIES 60

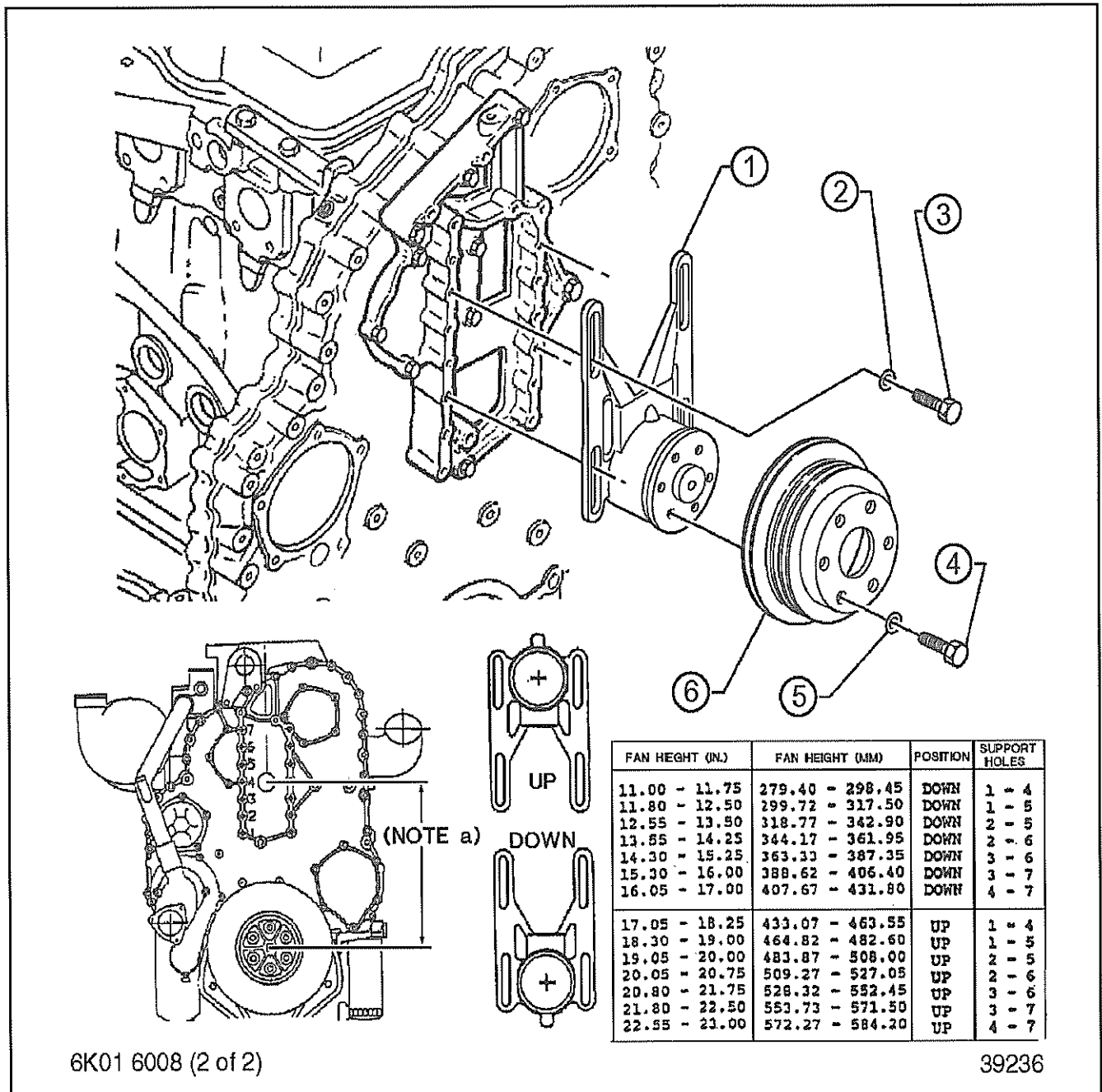


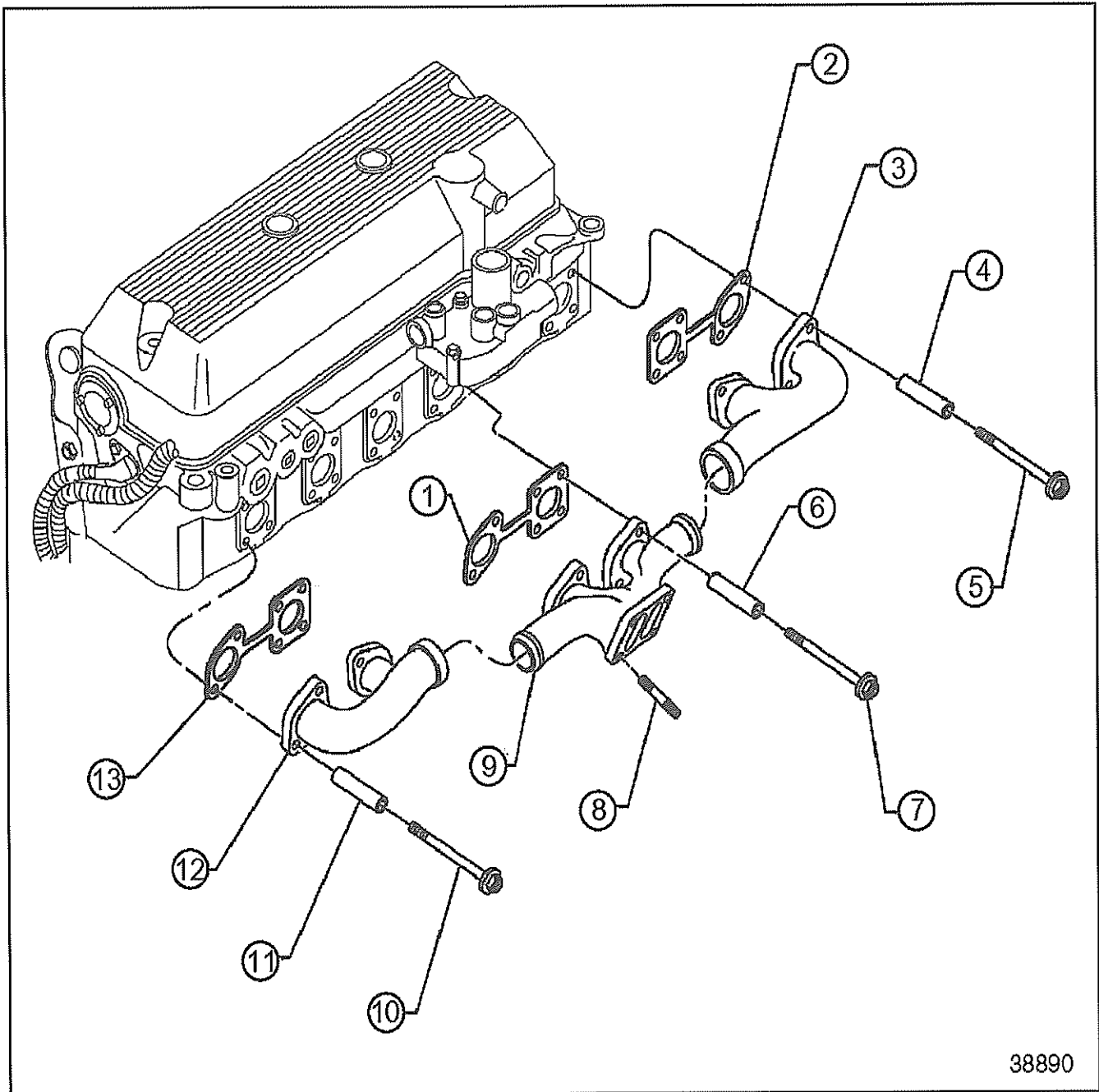
FIG 3 of 05.4A

				TYPES									
05.4A FAN				1									
				6									
				8									
FIG	PART NO.	NAME AND DESCRIPTION	ASSY.	2									
REF.			QTY.										
05.4A010													
		BLADE, FAN HIGH LOW AND											
		CRANKSHAFT MOUNTED											
	NPN	(CUSTOMER FURNISHED)BLADE		1									
05.4A015													
1:5	08929169	PULLEY AND HUB ASSY., FAN											
		WASHER (12.9190)		6									
1:6	08929218	PULLEY, FAN 3 GROOVE 203.0, 1 GROOVE 254.0		1									
2:8	08929585	BOLT, M10 X 1.5 X 380.0 (12.9001)		1									
1:4	09409036	BOLT, 3/8"-24 X 1.125" (12.9001)		6									
05.4A025													
2:4	11504822	SUPPORT, FAN MOUNTING											
		BOLT, M8 X 1.25 X 30		5									
2:2	11509525	BOLT, M10 X 1.5 X 110 MM		2									
2:5	11509531	BOLT, M14 X 2.0 X 60 MM		1									
2:3	11509533	BOLT, M14 X 2.0 X 100 MM		1									
2:6	11513960	BOLT, M10 X 1.5 X 145 MM		1									
2:1	23511356	SUPPORT, W/UPR RT BOLT BOSS		1									
05.4A102													
		SPINDLE ASSY., FAN DRIVE											
		<i>A SPINDLE ASSY. INCLUDES ITEMS IN 5.4102,</i>											
		<i>5.4103, 5.4111 AND 5.4160.</i>											
	00271283	FITTING, 45 DEG.-1/8" GREASE (12.9540)		1									
	00455322	FITTING, 1/8" VENT (12.9540)		1									
	00455734	PIN, SPRING 1/8" X 3/4" (12.9300)		1									
1:2	05131978	WASHER, .53 X 1.00 (1.5001)		4									
	08929214	WASHER		1									
1:3	11500944	BOLT, M12X1.75X40.0 MM		4									
1:1	8929538	SPINDLE ASSY.		1									
05.4A103													
	08920419	HOUSING, FAN DRIVE SPINDLE											
		BOLT, M10X1.5"X45.0" SPECIAL (1.2070)		1									
	08929215	PLATE		1									
05.4A111													
	07451005	BEARING, FAN SPINDLE											
		BEARING, ROLLER (12.4048)		1									
	08929063	RING, INT RETAINING 3.734" O.D. (12.4048)		1									
	08929064	RING, INT RETAINING 3.121" O.D. (12.4048)		1									
	08929216	RING, INT RETAINING 1.618" O.D. (5.4111)		1									
	08929530	BEARING, BALL; USE: 23518178		NS									
	23506569	BEARING, BALL (OPTIONAL TO 8929530)		1									
	23518178	BRG BALL ALT DRIV HEAT STABILIZED S60		1									
05.4A160													
1:2	08929213	SEAL, FAN SPINDLE		1									
		SEAL											

- 01 **ENGINE (LESS MAJOR ASSEMBLIES)**
 - 01.1 CYLINDER BLOCK
 - 01.2 CYLINDER HEAD
 - 01.2A ENGINE LIFTER BRACKET
 - 01.3 CRANKSHAFT, OIL SEALS AND STABILIZERS
 - 01.3A CRANKSHAFT FRONT COVER
 - 01.3B VIBRATION DAMPER
 - 01.3C CRANKSHAFT PULLEY
 - 01.4A FLYWHEEL
 - 01.5A FLYWHEEL, HOUSING
 - 01.6 CONNECTING ROD AND PISTON
 - 01.7 CAMSHAFT AND GEAR TRAIN
 - 01.8 VALVE AND INJECTOR OPERATING MECHANISM
 - 01.8A ROCKER COVER
- 02 **FUEL SYSTEM**
 - 02.1A FUEL INJECTOR/CNG CONTROLS
 - 02.1B INJECTOR, CONTROLS ELECTRONIC
 - 02.2 FUEL PUMP
 - 02.3A FUEL FILTER AND STRAINER
 - 02.5A FUEL LINES AND FUEL COOLER
- 03 **AIR SYSTEM**
 - 03.3C AIR INTAKE MANIFOLD
 - 03.5A TURBOCHARGER, INTERCOOLER AND AFTERCOOLER
- 04 **LUBRICATING SYSTEM**
 - 04.1A OIL PUMP
 - 04.1B OIL DISTRIBUTION SYSTEM
 - 04.1C OIL. PRESSURE REGULATOR
 - 04.2A OIL FILTER
 - 04.4A OIL COOLER AND MARINE GEAR LINES
 - 04.5A OIL, FILLER
 - 04.6A DIPSTICK
 - 04.7A OIL PAN
 - 04.8A VENTILATING SYSTEM
- 05 **COOLING SYSTEM**
 - 05.1 FRESH WATER PUMP
 - 05.2B THERMOSTAT
 - 05.2C WATER BYPASS TUBE
 - 05.3B WATER CONNECTIONS
 - 05.4A FAN
- 06 **EXHAUST SYSTEM**
 - 06.1A EXHAUST MANIFOLD AND/OR CONNECTIONS
 - 06.2A EXHAUST MUFFLER AND/OR CONNECTIONS
- 07 **ELECTRICAL INSTRUMENTS**
 - 07.1A BATTERY, CHARGING GENERATOR
 - 07.3A STARTING MOTOR
- 11 **ENGINE MOUNTING**
 - 11.1A ENGINE MOUNTING AND BASE

DETROIT DIESEL

SERIES 60



38890

FIG 1 of 06.1A

DETROIT DIESEL

SERIES 60

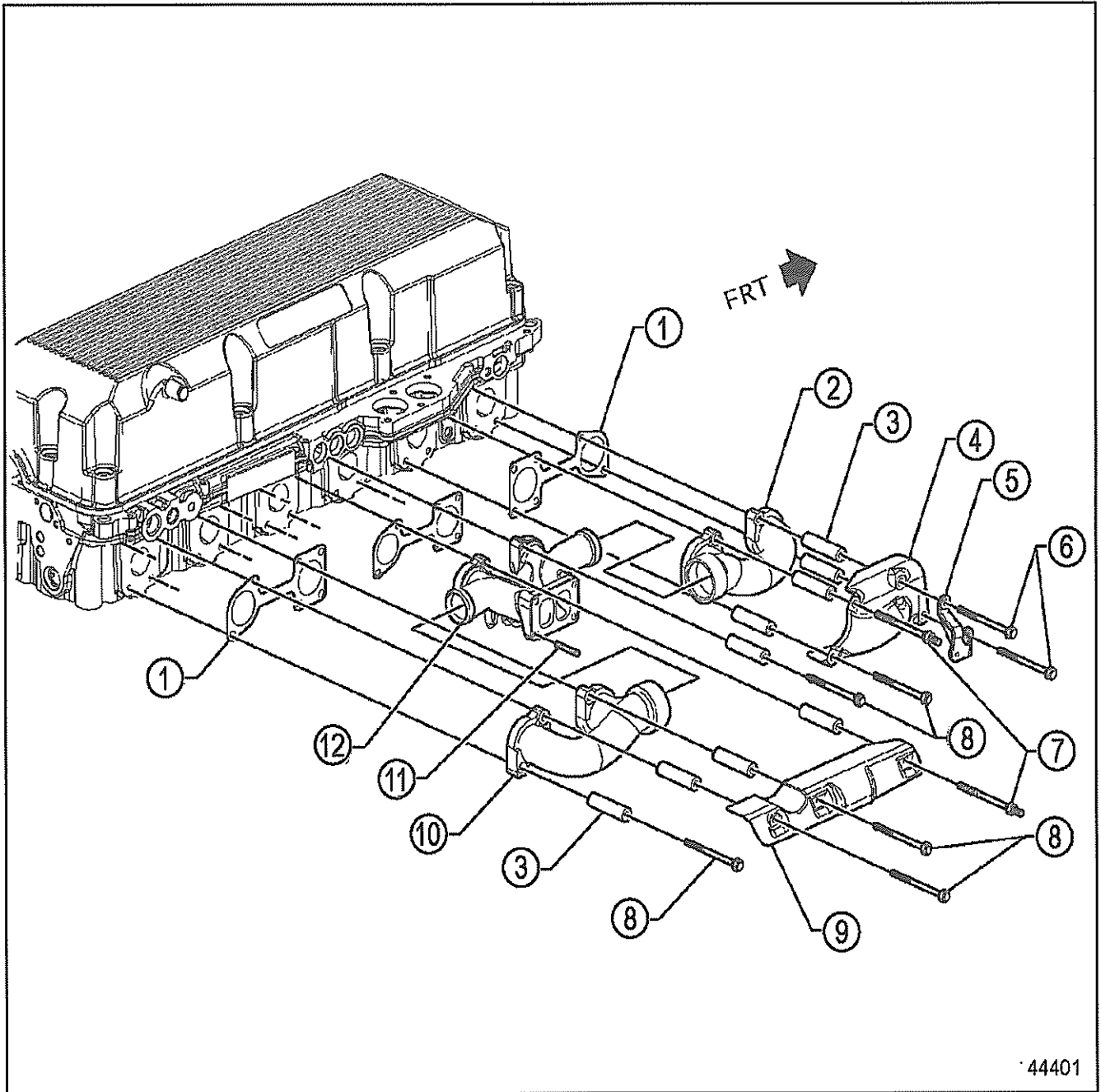


FIG 2 of 06.1A

DETROIT DIESEL

SERIES 60

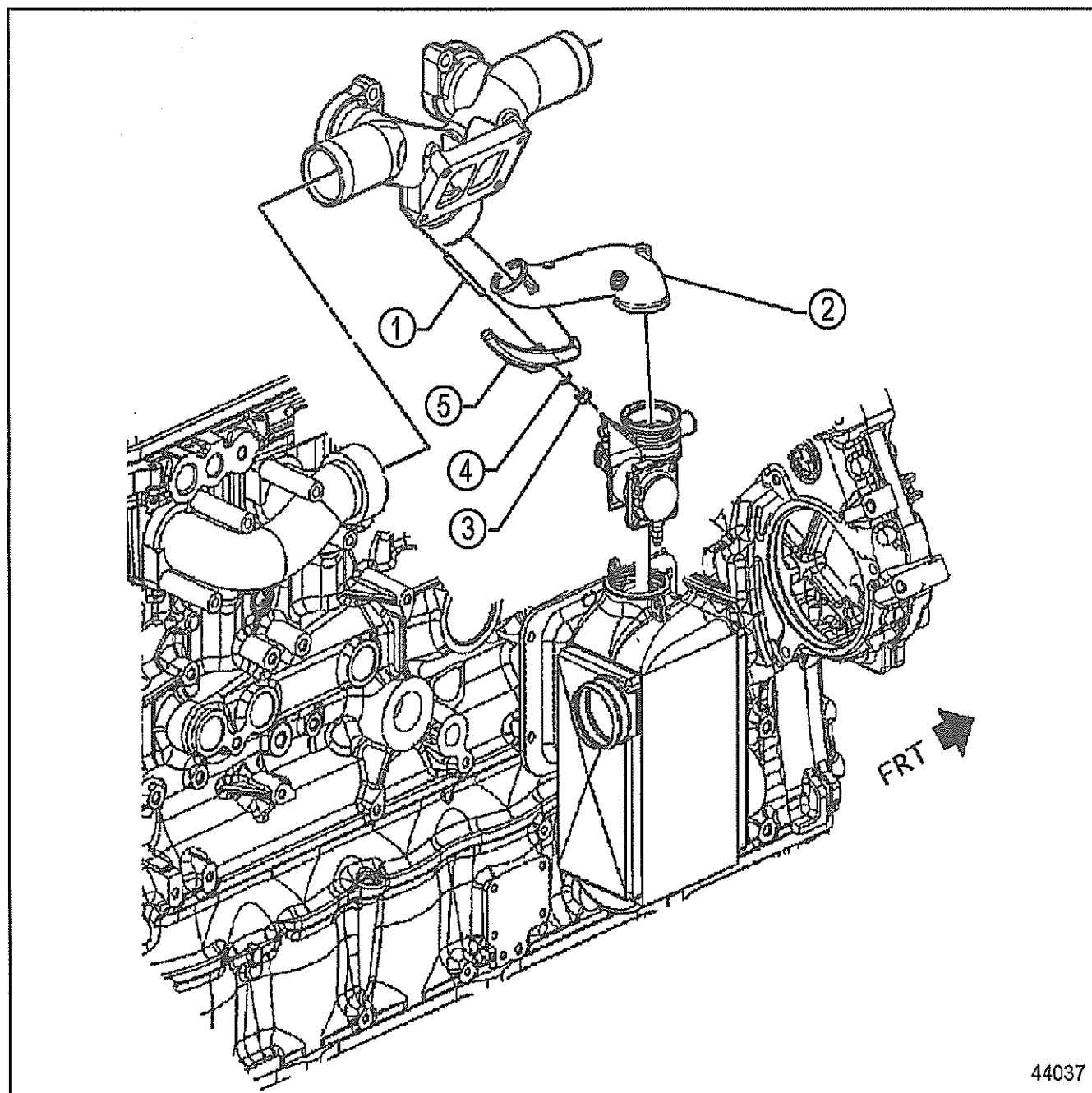


FIG 3 of 06.1A

		TYPES										
		06.1A EXHAUST MANIFOLD AND/OR CONNECTIONS										
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.									
	06.1A001	MANIFOLD, EXHAUST										
1:3	23511221	MANIFOLD, 3 PC END FRONT HIGH MOUNT	1									
1:12	23511222	MANIFOLD, 3 PC FRT & REAR END	1									
1:9	23511978	MANIFOLD, 3 PC CENTER SECTION HIGH MOUNT; USE: 23519348	NS									
	23519348	MANIFOLD EXH 3PC CTR SECT HI MT MOLY	1									
	06.1A010	GASKET, EXHAUST MANIFOLD										
1:1	23511666	GASKET, 2 PORT (GRAPHITE)	3									
	06.1A022	STUD, EXHAUST MANIFOLD TO TURBOCHARGER										
1:8	23517241	STUD SPL M10X1.5X58.5 EXH MAN S50G	4									
	06.1A025	BOLT, EXHAUST MANIFOLD TO HEAD										
1:10	08929357	BOLT, M10 X 1.5 X 120 (12.9001)	7									
1:4	23511667	SPACER	12									
	06.1A171	HEAT SHIELD, EXHAUST MANIFOLD										
	11506101	NUT, M10 X 1.5	5									
1:5	23509744	STUD, BOLT M10X1.5X120.0	5									
	23519124	SHIELD HEAT EXH MANIFOLD RR	1									
	23520972	HEAT SHIELD EXH MANIF FRT	1									

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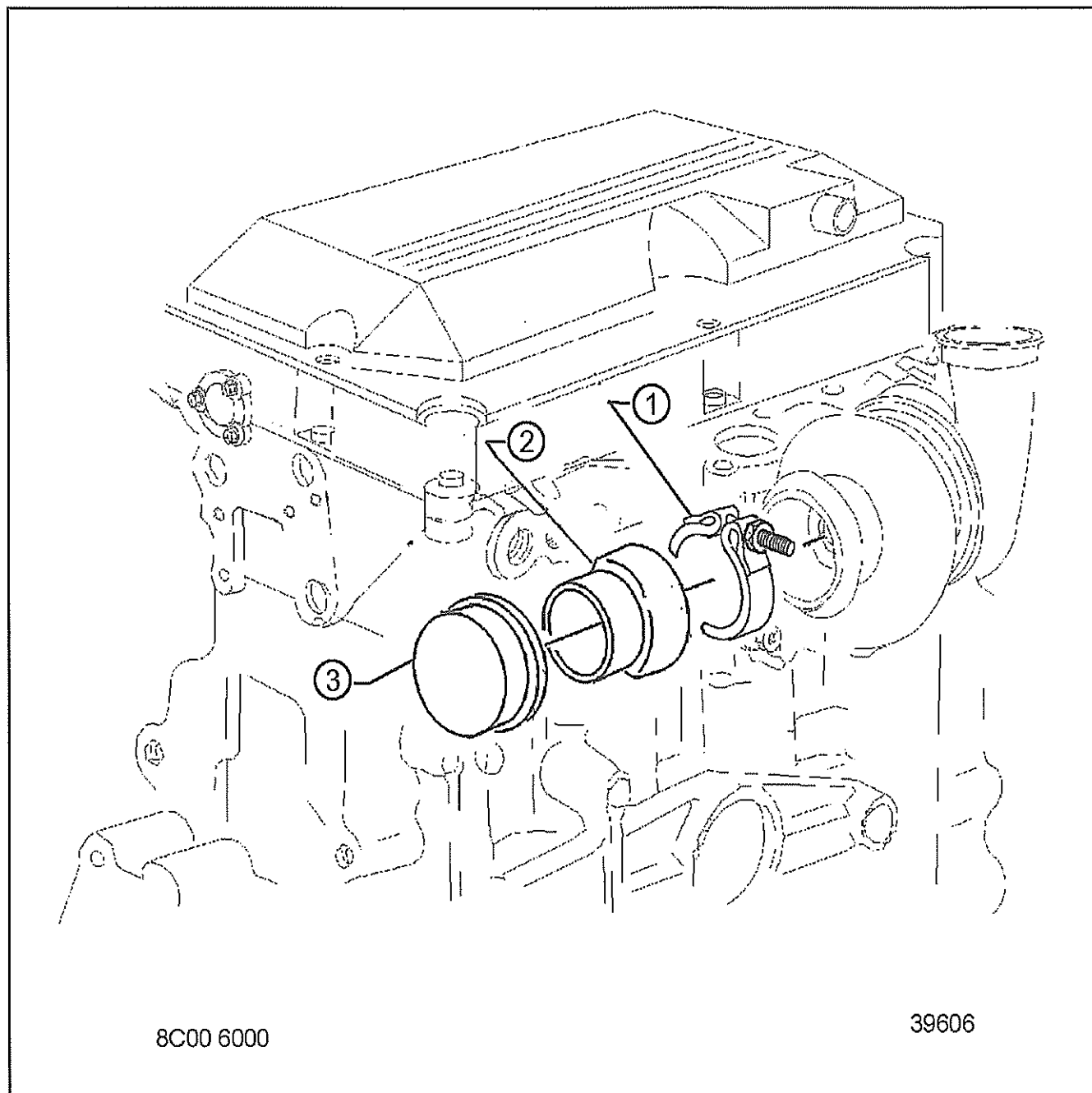


FIG 1 of 06.2A

- 01 ENGINE (LESS MAJOR ASSEMBLIES)**
 - 01.1 CYLINDER BLOCK
 - 01.2 CYLINDER HEAD
 - 01.2A ENGINE LIFTER BRACKET
 - 01.3 CRANKSHAFT, OIL SEALS AND STABILIZERS
 - 01.3A CRANKSHAFT FRONT COVER
 - 01.3B VIBRATION DAMPER
 - 01.3C CRANKSHAFT PULLEY
 - 01.4A FLYWHEEL
 - 01.5A FLYWHEEL, HOUSING
 - 01.6 CONNECTING ROD AND PISTON
 - 01.7 CAMSHAFT AND GEAR TRAIN
 - 01.8 VALVE AND INJECTOR OPERATING MECHANISM
 - 01.8A ROCKER COVER
- 02 FUEL SYSTEM**
 - 02.1A FUEL INJECTOR/CNG CONTROLS
 - 02.1B INJECTOR, CONTROLS ELECTRONIC
 - 02.2 FUEL PUMP
 - 02.3A FUEL FILTER AND STRAINER
 - 02.5A FUEL LINES AND FUEL COOLER
- 03 AIR SYSTEM**
 - 03.3C AIR INTAKE MANIFOLD
 - 03.5A TURBOCHARGER, INTERCOOLER AND AFTERCOOLER
- 04 LUBRICATING SYSTEM**
 - 04.1A OIL PUMP
 - 04.1B OIL DISTRIBUTION SYSTEM
 - 04.1C OIL, PRESSURE REGULATOR
 - 04.2A OIL FILTER
 - 04.4A OIL COOLER AND MARINE GEAR LINES
 - 04.5A OIL, FILLER
 - 04.6A DIPSTICK
 - 04.7A OIL PAN
 - 04.8A VENTILATING SYSTEM
- 05 COOLING SYSTEM**
 - 05.1 FRESH WATER PUMP
 - 05.2B THERMOSTAT
 - 05.2C WATER BYPASS TUBE
 - 05.3B WATER CONNECTIONS
 - 05.4A FAN
- 06 EXHAUST SYSTEM**
 - 06.1A EXHAUST MANIFOLD AND/OR CONNECTIONS
 - 06.2A EXHAUST MUFFLER AND/OR CONNECTIONS
- 07 ELECTRICAL INSTRUMENTS**
 - 07.1A BATTERY, CHARGING GENERATOR
 - 07.3A STARTING MOTOR
- 11 ENGINE MOUNTING**
 - 11.1A ENGINE MOUNTING AND BASE

				TYPES									
				07.1A BATTERY, CHARGING GENERATOR	2								
					5								
FIG	PART NO.	NAME AND DESCRIPTION	ASSY.		9								
REF.			QTY.		7								
07.1A001		GENERATOR ASSY.											
	00103323	LOCKWASHER, 1/2"		2									
	09427945	BOLT, 1/2"-13 X 6.25" (12.9001)		1									
	19010182	GEN CHRGR AC 24V70A NG CW/CCW 21SI		1									
	R0459110	ALTERNATOR, 24V 70A 21SI (REMANUFACTURED)		AR									
07.1A500		PULLEY, GENERATOR											
	00102637	NUT, 1/2"-13		1									
	05140070	PULLEY, 3.66" DIA, 2 GRVS .500" WIDE		1									
07.1A575		BELT, GENERATOR DRIVE											
	23517835	BELT .500 X 53.00 PREM HI CAP		1									
07.1A580		STRAP, GENERATOR ADJUSTING											
	00103345	WASHER, 5/8"		2									
	00442733	BOLT, 1/2"-13 X 1.25" (12.9001)		1									
	11501055	NUT, M16X2.0		2									
	11506101	NUT, M10 X 1.5		1									
	11509526	BOLT, M10 X 1.5 X 130 MM		1									
	23511669	LINK, ADJUSTING ROD		1									
	23519910	ROD, ADJ M16 X 2.0 X 265.0 L.		1									
	23528167	SPACER ALTERNATOR S60		1									
07.1A595		BRACKET, GENERATOR MOUNTING											
	05132715	WASHER, .53"X.94"X.12" (1.3140)		3									
	23521122	BRACKET ALTNTR LOW MT S50 TRK&INDST		1									
	23521131	NUT M10 HEX FLANGE		2									
	23521132	BOLT M10 1.5 X 140.0 FLG HEX HD CTD S60		2									

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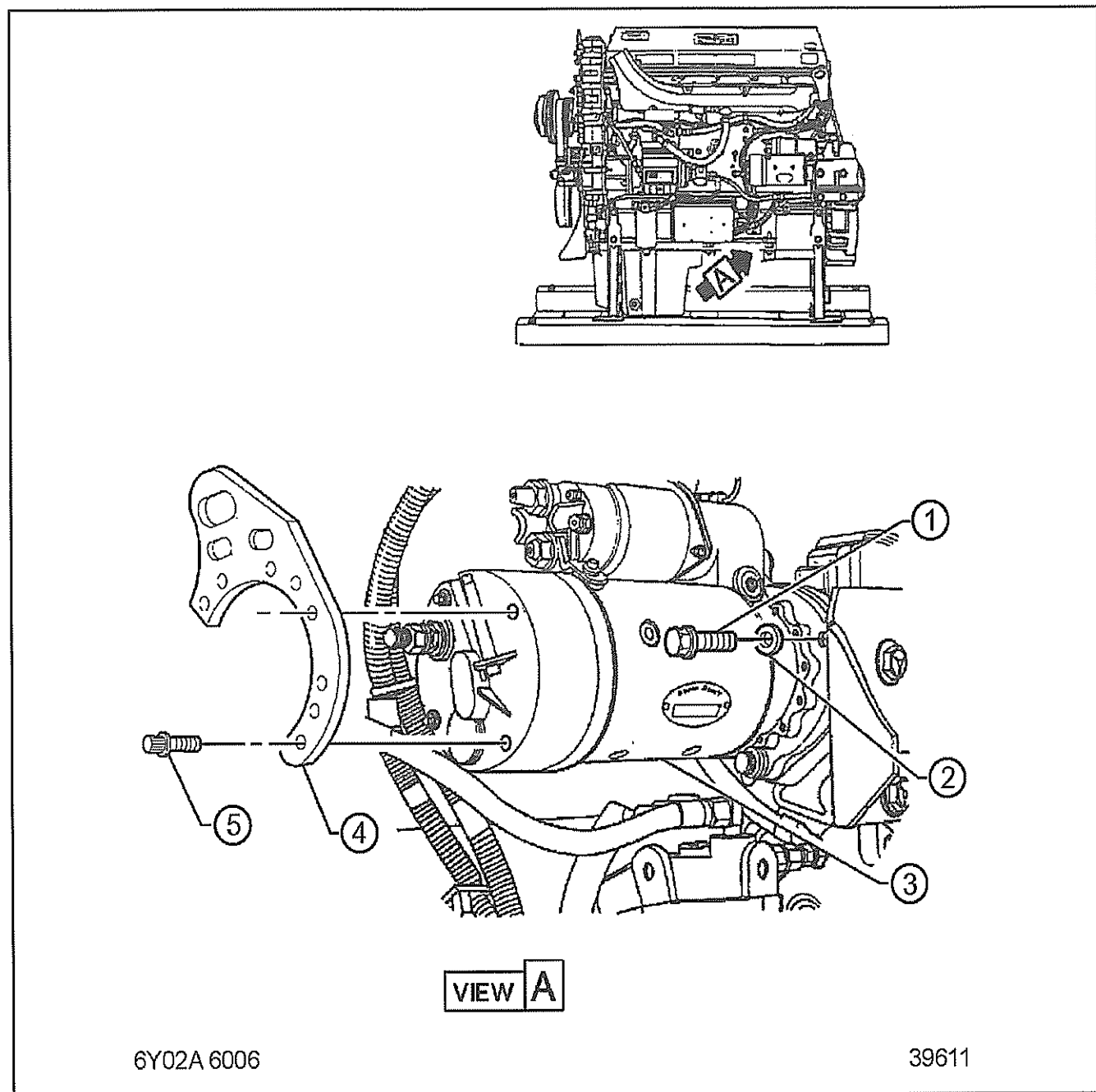


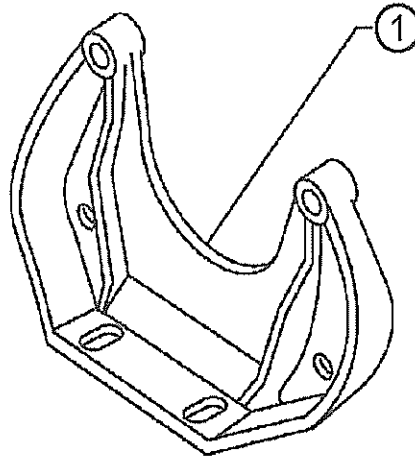
FIG 1 of 07.3A

			TYPES											
07.3A STARTING MOTOR			ASSY. QTY.	3										
FIG REF.	PART NO.	NAME AND DESCRIPTION		5										
	07.3A001	MOTOR ASSY., STARTING												
1:2	00103325	LOCKWASHER, 5/8"		3										
1:1	09439720	BOLT, 5/8"-11X2 1/4" (12PT.) (12.9005)		3										
1:3	10478980	MOTOR ASSY. (24V. CW. INSUL. 42MT)		1										
	R0461128	MOTOR ASSY., 24V 42MT (REMANUFACTURED)		AR										

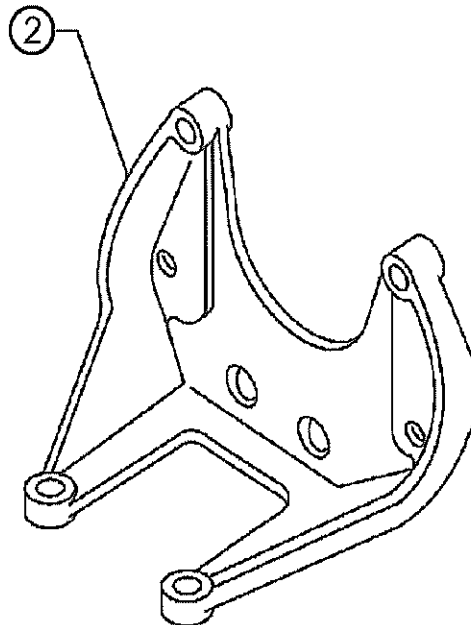
- 01 **ENGINE (LESS MAJOR ASSEMBLIES)**
 - 01.1 CYLINDER BLOCK
 - 01.2 CYLINDER HEAD
 - 01.2A ENGINE LIFTER BRACKET
 - 01.3 CRANKSHAFT, OIL SEALS AND STABILIZERS
 - 01.3A CRANKSHAFT FRONT COVER
 - 01.3B VIBRATION DAMPER
 - 01.3C CRANKSHAFT PULLEY
 - 01.4A FLYWHEEL
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 - 01.6 CONNECTING ROD AND PISTON
 - 01.7 CAMSHAFT AND GEAR TRAIN
 - 01.8 VALVE AND INJECTOR OPERATING MECHANISM
 - 01.8A ROCKER COVER
- 02 **FUEL SYSTEM**
 - 02.1A FUEL INJECTOR/CNG CONTROLS
 - 02.1B INJECTOR, CONTROLS ELECTRONIC
 - 02.2 FUEL PUMP
 - 02.3A FUEL FILTER AND STRAINER
 - 02.5A FUEL LINES AND FUEL COOLER
- 03 **AIR SYSTEM**
 - 03.3C AIR INTAKE MANIFOLD
 - 03.5A TURBOCHARGER, INTERCOOLER AND AFTERCOOLER
- 04 **LUBRICATING SYSTEM**
 - 04.1A OIL PUMP
 - 04.1B OIL DISTRIBUTION SYSTEM
 - 04.1C OIL, PRESSURE REGULATOR
 - 04.2A OIL FILTER
 - 04.4A OIL COOLER AND MARINE GEAR LINES
 - 04.5A OIL, FILLER
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 - 05.1 FRESH WATER PUMP
 - 05.2B THERMOSTAT
 - 05.2C WATER BYPASS TUBE
 - 05.3B WATER CONNECTIONS
 - 05.4A FAN
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 - 06.1A EXHAUST MANIFOLD AND/OR CONNECTIONS
 - 06.2A EXHAUST MUFFLER AND/OR CONNECTIONS
- 07 **ELECTRICAL INSTRUMENTS**
 - 07.1A BATTERY, CHARGING GENERATOR
 - 07.3A STARTING MOTOR
- 11 **ENGINE MOUNTING**
 - 11.1A ENGINE MOUNTING AND BASE

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ITEM 1



ITEM 2

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FIG 1 of 11.1A

11.1A ENGINE MOUNTING AND BASE				TYPES											
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	6											
	11.1A070	SUPPORT, ENGINE FRONT		8											
	08929068	BOLT, M14 X 2.0 X 140 (12.9001)		3											
				4											
1:1	08929744	SUPPORT (WEST COAST) ITEM 1		1											
	11509528	BOLT, M12 X 1.75 X 30 MM		8											

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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.														

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