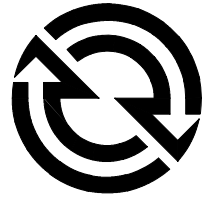


Engine Parts

DETROIT DIESEL



Diesel Engine

Generator Models:
1350/1500 kW

Engine Series:
4000

Engine Model:
T1237M36

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GENERAL INFORMATION

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

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

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

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

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of all information, engine modifications or subsequent engineering changes or enhancements may cause certain data to be superseded or rendered obsolete.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

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

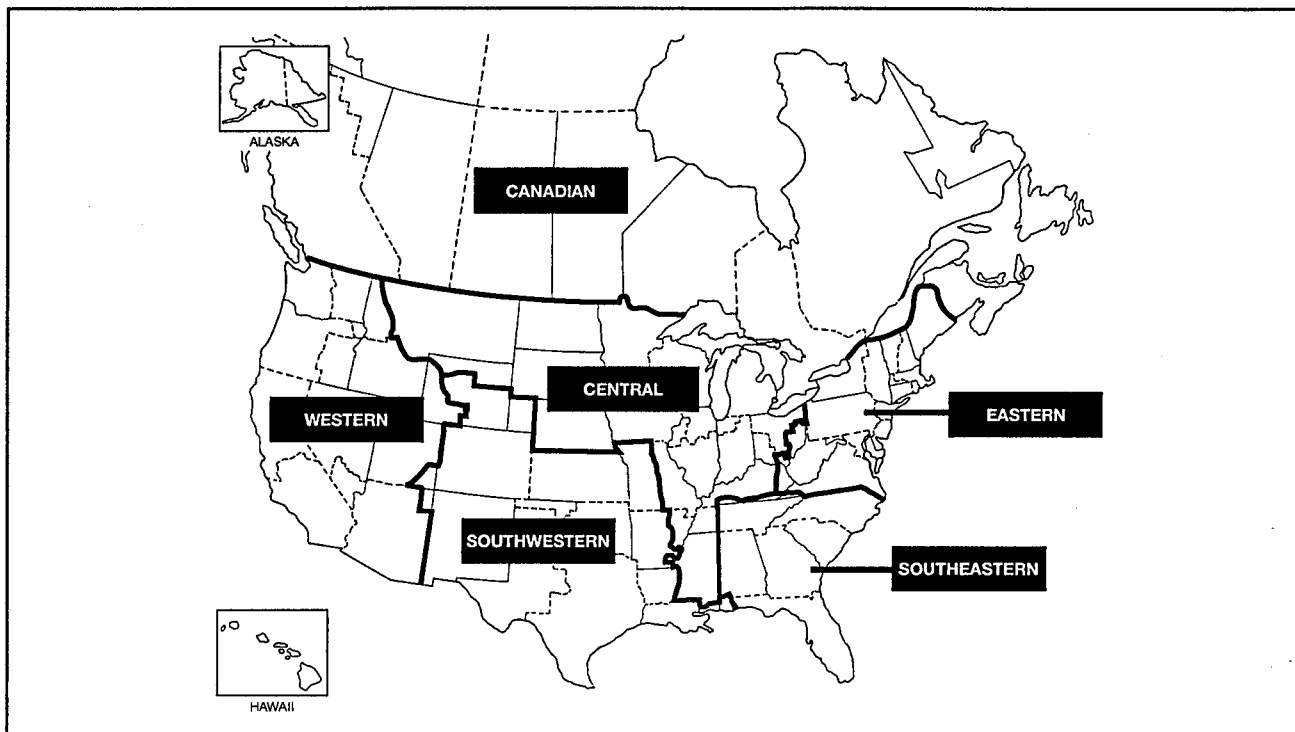
IMPORTANT ENGINE INFORMATION

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

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

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DETROIT DIESEL

Custom Parts Catalog

ENGINE DESCRIPTION

SERIES NUMBER: 4000

MODEL NUMBER: T1237M36

1.0000 ENGINE (LESS MAJOR ASSEMBLIES)

- 1.1000 CYLINDER BLOCK
- 1.1000 CYLINDER BLOCK
- 1.1000A ... AIR BOX DRAIN
- 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
- 1.7000B ... ACCESSORY DRIVE
- 1.8000 VALVE 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
- 2.5000A ... FUEL LINES

3.0000 AIR SYSTEM

- 3.1000A ... AIR CLEANER
- 3.3000A ... AIR INLET HOUSING
- 3.3000B ... AIR INTAKE WATER
- 3.3000C ... AIR INTAKE MANIFOLD
- 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
- 4.4000A ... OIL COOLER
- 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
- 5.2000A ... WATER OUTLET MANIFOLD
- 5.2000B ... THERMOSTAT
- 5.3000B ... WATER CONNECTIONS
- 5.4000A ... FAN
- 5.5000A ... HEAT EXCHANGER
- 5.6000A ... RAW WATER PUMP

6.0000 EXHAUST SYSTEM

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

7.0000 ELECTRICAL INSTRUMENTS

- 7.1000A ... BATTERY CHARGING GEN
- 7.3000A ... STARTING MOTOR
- 7.7000B ... THROTTLE & GEAR CONTROL SYS.ELECTRONIC MARINE

9.0000 TRANSMISSION AND PROPULSION

- 9.1000A ... HYDRAULIC MARINE GEAR

11.0000 ENGINE MOUNTING

- 11.1000A .. ENGINE MOUNTS

12.0000 MISCELLANEOUS

- 12.4000A .. AIR COMPRESSOR
- 12.6000B .. AIR STARTER
- 12.7000A .. APPEARANCE PACKAGE PARTS
- 12.8000A .. SUPPLIES/MAINTENANCE PRODUCTS

PART NAME	GROUP NO.	PART NAME	GROUP NO.
A			
ACTUATOR ASSY.	3. 3012A	BRACKET, REVERSE GEAR MOUNTING	9. 1011A
ADAPTOR, EXHAUST MANIFOLD	6. 1003A	BRACKET, ROCKER SHAFT	1. 8170
ADAPTOR, EXHAUST PIPE	6. 1190A	BRACKET, TUBE SUPPORT	3. 7250
ADAPTOR, FLYWHEEL HOUSING	1. 5130B	BRACKET, TURBOCHARGER AIR OUTLET TUBE	3. 5415A
ADAPTOR, FUEL PUMP DRIVE	2. 2260	BRACKET, TURBOCHARGER EXHAUST OUTLET ADAPTOR	3. 5330A
ADAPTOR, OIL FILTER ASSY.	4. 2352A	BREATHING ASSY.	4. 8045A
ADAPTOR, TURBOCHARGER EXHAUST OUTLET	3. 5324A	BRIDGE, EXHAUST VALVE	1. 8343
ADDITIVES, DIESEL FUEL	12.8280A	BUSHING, CONNECTING ROD PISTON	1. 6040
ADDITIVES, SUPPLEMENTAL COOLANT	12.8260A	BUSHING, CRANKSHAFT REAR SUPPORT	1. 5023A
AIR CLEANER ASSY.	3. 1001A	BUSHING, EXHAUST VALVE ROCKER ARM	1. 8100
AIR INTAKE MANIFOLD	3. 3801C	BUSHING, INTAKE VALVE ROCKER	1. 8105
AIR STARTER ASSY.	12.6080B	C	
APPEARANCE PACKAGE PARTS - SECTION 1	12.7001A	CAMSHAFT ASSY.	1. 7001
ARM ASSY., EXHAUST VALVE ROCKER	1. 8060	CAP, CRANKSHAFT MAIN BEARING	1. 3110
ARM ASSY., INTAKE VALVE ROCKER	1. 8075	CAP, EXPANSION TANK	5. 5140A
ARM ASSY., SWING EXHAUST VALVE ROCKER	1. 8253	CAP, VALVE SPRING	1. 8350
ARM ASSY., SWING INTAKE VALVE ROCKER	1. 8255	CARRIER HOUSING, EXHAUST MANIFOLD	6. 1016A
B		CLAMP, AIR INLET PIPE HOSE	3. 1280A
BASE, ENGINE MOUNTING	11.1001A	CLAMP, BREATHING EXTENSION PIPE HOSE	4. 8180A
BEARING, ACCESSORY DRIVE	1. 7655B	CLAMP, BREATHING TUBE	4. 8039A
BEARING, CAMSHAFT	1. 7040	CLAMP, INJECTOR	2. 1270A
BEARING, GENERATOR DRIVE	7. 1535A	CLAMP, TUBE	3. 7130
BEARING, IDLER GEAR	1. 7225	CLEANER, COOLANT SYSTEM	12.8270A
BEARING, PISTON PIN	1. 6142	CLIP, AIR COMPRESSOR LUBE OIL TUBE	12.4080A
BELT, CRANKSHAFT PULLEY DRIVE	1. 3320D	CLIP, AIR COMPRESSOR WATER TUBE	12.4095A
BELT, GENERATOR DRIVE	7. 1575A	CLIP, DIPSTICK	4. 6040A
BLOCK, CYLINDER	1. 1001	CLIP, FUEL PUMP TO FILTER HOSE	2. 5120A
BLOCK, FUEL SYSTEM JUNCTION	2. 5250A	CLIP, OIL DRAIN TUBE	4. 1697C
BODY, BREATHING OR SEPARATOR	4. 8050A	CLIP, TURBOCHARGER OIL RETURN TUBE	3. 5507A
BOLT, AIR CLEANER ASSY.	3. 1070A	CLIP, TURBOCHARGER OIL SUPPLY TUBE	3. 5502A
BOLT, CRANKSHAFT MAIN BEARING CAP	1. 3140	CLIP, TURBOCHARGER WATER LINE	3. 5527A
BOLT, CYLINDER HEAD	1. 2030	CLUTCH ASSY., FAN	5. 4112A
BOLT, ROCKER COVER	1. 8460A	COMPRESSOR ASSY., AIR	12.4001A
BRACKET, AIR CLEANER MOUNTING	3. 1230A	CONNECTING ROD ASSY.	1. 6001
BRACKET, BOAT BUILDER INTERFACE MODULE	2. 1514B	CONNECTION, HEAT EXCHANGER FRESH WATER OUTLET	5. 5290A
BRACKET, BREATHING EXTENSION PIPE	4. 8183A	CONNECTION, HEAT EXCHANGER INLET	5. 2125B
BRACKET, BREATHING/COLLECTOR MOUNTING	4. 8056A	CONNECTION, OIL COOLER WATER CROSSOVER	4. 4218A
BRACKET, ENGINE LIFTER-FRONT	1. 2070A	CONNECTION, OIL COOLER WATER INLET	5. 3350B
BRACKET, ENGINE LIFTER-REAR	1. 2080A	CONNECTION, WATER PUMP TO THERMOSTAT HOUSING	5. 3345B
BRACKET, ENGINE SUPPORT	11.1075A	CONNECTOR, BREATHING TUBE	4. 8021A
BRACKET, FAN SUPPORT	5. 4027A	CONNECTOR, FUEL HIGH PRESSURE LINES	2. 5076A
BRACKET, GENERATOR DRIVE BELT AND PULLEY GUARD	7. 1587A	CONNECTOR, WATER TUBING	3. 7085
BRACKET, GENERATOR MOUNTING	7. 1595A	COOLER ASSY., BOOST	5. 5422A
BRACKET, HEAT EXCHANGER MOUNTING	5. 5070A	CORE, HEAT EXCHANGER	5. 5003A
BRACKET, INTERCOOLER MOUNTING	3. 7003	CORE, OIL COOLER ENGINE	4. 4001A
BRACKET, OIL FILTER MOUNTING	4. 2440A	COUPLING ASSY., GENERATOR DRIVE	7. 1555A

PART NAME	GROUP NO.	PART NAME	GROUP NO.
COUPLING, ACCESSORY DRIVE	1. 7635B	F	
COUPLING, AIR COMPRESSOR DRIVE	12.4050A		
COUPLING, ENGINE DRIVE SHAFT FLEXIBLE	1. 4060A		
COUPLING, FUEL PUMP DRIVE	2. 2230		
COVER ASSY., DRIVE	1. 7700B		
COVER ASSY., ROCKER	1. 8450A		
COVER, AIR COMPRESSOR FUEL PUMP HOLE	12.4034A		
COVER, BREATHER HOLE IN BLOCK	4. 8195A		
COVER, CYLINDER BLOCK HAND HOLE	1. 1040		
COVER, CYLINDER BLOCK VALLEY	1. 1055		
COVER, ENGINE FRONT ACCESSORY DRIVE	1. 3191A	G	
COVER, EXHAUST MANIFOLD	6. 1015A		
COVER, FLYWHEEL HOUSING	1. 5085A		
COVER, FLYWHEEL HOUSING INSPECTION HOLE	1. 5080A		
COVER, FLYWHEEL HOUSING WATER HOLE	1. 5119A		
COVER, FUEL FILTER	2. 3390A		
COVER, GEAR CASE	5. 4323A		
COVER, HEAT EXCHANGER	5. 5030A		
COVER, HEAT EXCHANGER RAW WATER-OUTLET	5. 5036A		
COVER, OIL COOLER HOUSING	4. 4060A		
COVER, OIL FILTER	4. 2290A		
COVER, STARTING MOTOR HOLE	1. 5070A		
COVER, THERMOSTAT HOUSING	5. 2120B		
CRANKSHAFT ASSY	1. 3001		
CYLINDER INSTALLATION KIT	1. 6183		
CYLINDER KIT	1. 6182		
CYLINDER, SEQUENTIAL ACTUATOR	6. 1008A		
D		GAGE, AIR PRESSURE	12.8315A
DAMPER, VIBRATION	1. 3210B	GAGE, AMMETER	12.8310A
DIPSTICK	4. 6001A	GAGE, FUEL VOLUME	12.8350A
DIPSTICK ADAPTOR & OIL FILLER PLATE	4. 6060A	GAGE, HOUR METER	12.8370A
DRIVE ASSY., ACCESSORY	1. 7600B	GAGE, OIL PRESSURE - ENGINE	12.8330A
DRIVE ASSY., AIR COMPRESSOR	12.4030A	GAGE, OIL PRESSURE - TRANSMISSION	12.8335A
DRIVE ASSY., GENERATOR	7. 1507A	GAGE, OIL TEMPERATURE	12.8340A
E		GAGE, SPEEDOMETER	12.8385A
ELBOW, BREATHER	4. 8013A	GAGE, TACHOMETER	12.8320A
ELBOW, HEAT EXCHANGER RAW WATER INLET	5. 6582A	GAGE, TURBO BOOST	12.8375A
ELBOW, HEAT EXCHANGER RAW WATER OUTLET	5. 6584A	GAGE, VOLTMETER	12.8380A
ELBOW, RAW WATER PUMP INLET	5. 6573A	GAGE, WATER TEMPERATURE	12.8345A
ELBOW, RAW WATER PUMP OUTLET	5. 6572A	GASKET, ACCESSORY DRIVE	1. 7604B
ELBOW, WATER INLET & OUTLET INTERCOOLER	3. 7305	GASKET, AIR COMPRESSOR DRIVE HOUSING	12.4039A
ELBOW, WATER PUMP OUTLET	5. 3336B	GASKET, AIR STARTER MOUNTING	12.6085B
ELEMENT, FUEL FILTER	2. 3320A	GASKET, BREATHER HOLE COVER	4. 8196A
ELEMENT, OIL FILTER	4. 2250A	GASKET, BREATHER TUBE	4. 8020A
EXPANDER, EXHAUST MANIFOLD	6. 1006A	GASKET, COVER ASSY. DRIVE	1. 7725B
EXTENSION, BREATHER TUBE	4. 8010A	GASKET, CRANKSHAFT FRONT COVER	1. 3170A
		GASKET, CYLINDER BLOCK HAND HOLE COVER	1. 1050
		GASKET, CYLINDER BLOCK VALLEY COVER	1. 1057
		GASKET, CYLINDER HEAD	1. 2010
		GASKET, DIPSTICK ADAPTOR & OIL FILLER PLATE	4. 6061A
		GASKET, ENGINE FRONT ACCESSORY DRIVE	1. 3192A
		GASKET, EXHAUST MANIFOLD	6. 1010A
		GASKET, EXHAUST MANIFOLD ADAPTOR	6. 1012A
		GASKET, FLYWHEEL HOUSING	1. 5010A
		GASKET, FLYWHEEL HOUSING COVER	1. 5095A
		GASKET, FLYWHEEL HOUSING WATER HOLE COVER	1. 5120A
		GASKET, FUEL PUMP TO ENGINE	2. 2007
		GASKET, GENERATOR DRIVE	7. 1508A
		GASKET, HEAT EXCHANGER WATER MANIFOLD	5. 2128B
		GASKET, OIL COOLER CORE INNER	4. 4030A
		GASKET, OIL COOLER CORE OUTER	4. 4040A
		GASKET, OIL COOLER HOUSING	4. 4055A
		GASKET, OIL COOLER WATER INLET CONNECTION	5. 3360B
		GASKET, OIL PAN DRAIN PLUG	4. 7090A
		GASKET, OIL PAN TO BLOCK	4. 7030A

PART NAME	GROUP NO.	PART NAME	GROUP NO.
GASKET, RAW WATER PUMP	5. 6350A	HOSE, TURBOCHARGER AIR OUTLET CONNECTION	3. 5420A
GASKET, RAW WATER PUMP INLET ELBOW	5. 6574A	HOUSING ASSY., FLYWHEEL	1. 5001A
GASKET, RAW WATER PUMP OUTLET TUBE	5. 6581A	HOUSING ASSY., GEAR CASE	1. 3156A
GASKET, ROCKER COVER	1. 8455A	HOUSING ASSY.,AIR INLET	3. 3001A
GASKET, STARTING MOTOR	7. 3004A	HOUSING ASSY.,TURBOCHARGER INTERMEDIATE	3. 5018A
GASKET, STARTING MOTOR HOLE COVER	1. 5075A	HOUSING, ACCESSORY DRIVE	1. 7627B
GASKET, THERMOSTAT HOUSING	5. 2110B	HOUSING, INTERCOOLER	3. 7300
GASKET, TURBOCHARGER EXHAUST INLET CONNECTION	3. 5307A	HOUSING, OIL COOLER ENGINE	4. 4050A
GASKET, TURBOCHARGER EXHAUST OUTLET	3. 5325A	HOUSING, THERMOSTAT	5. 2090B
GASKET, WATER OUTLET MANIFOLD	5. 2010A	HOUSING, TURBOCHARGER COMPRESSOR	3. 5022A
GASKET, WATER PUMP INLET AND OUTLET ELBOW	5. 3337B	HOUSING, TURBOCHARGER TURBINE	3. 5003A
GASKET,AIR INTAKE MANIFOLD	3. 3803C	HOUSING, WATER DISTRIBUTION	5. 2155B
GEAR ASSY., HYDRAULIC MARINE	9. 1001A	HUB, FLANGE MOUNTED ALTERNATOR DRIVE	7. 1511A
GEAR ASSY., IDLER	1. 7220	HUB, IDLER GEAR	1. 7250
GEAR, ACCESSORY DRIVE	1. 7670B	HUB, VIBRATION DAMPER	1. 3230B
GEAR, CAMSHAFT AND BALANCE SHAFT	1. 7200		
GEAR, CRANKSHAFT TIMING	1. 3145		
GEAR, FLYWHEEL RING	1. 4010A		
GEAR, GENERATOR DRIVE	7. 1532A		
GENERATOR ASSY.	7. 1001A		
GLAND, HEAT EXCHANGER SEAL RETAINER	5. 5027A		
GOVERNOR KIT, AIR COMPRESSOR	12.4305A		
GUARD, GENERATOR DRIVE BELT AND PULLEY	7. 1585A		
GUIDE, DIPSTICK	4. 6020A		
GUIDE, EXHAUST VALVE	1. 8320		
GUIDE, FLYWHEEL HOUSING TIMING PIN	1. 5106A		
GUIDE, VALVE BRIDGE	1. 8345		
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HAND CLEANERS	12.8070A	INDICATOR, AIR CLEANER RESTRICTION	3. 1007A
HARNES, ECM-BOAT BUILDER INTERFACE MODULE	2. 1690B	INJECTOR ASSY.	2. 1001A
HARNES, ELECTRONIC DISTRIBUTOR UNIT TO INJECTOR	2. 1700B	INSERT, CYLINDER LINER	1. 6187
HARNES, ENGINE SENSORS TO DISCONNECT	2. 1720B	INSULATION COVER, EXHAUST MANIFOLD	6. 1172A
HARNES, ENGINE SENSORS TO ECM	2. 1704B	INTERCOOLER ASSY.	3. 7001
HARNES, INTERFACE	2. 1703B		
HARNES, POWER INTERFACE	2. 1740B		
HEAD ASSY., CYLINDER	1. 2001		
HOSE., OIL SUPPLY	5. 4022A		
HOSE, AIR COMPRESSOR CHARGE AIR SUPPLY	12.4370A		
HOSE, AIR INLET PIPE	3. 1270A		
HOSE, BREATHIER EXTENSION	4. 8175A		
HOSE, FUEL DRAIN	3. 3013A		
HOSE, FUEL SUPPLY	3. 3009A		
HOSE, HEAT EXCHANGER FRESH WATER INLET CONNECTION	5. 5240A		
HOSE, JUNCTION BLOCK TO FUEL BLOCK ASSY.	2. 5251A		
HOSE, OIL DRAIN	4. 8187A		
		K	
		KIT, COOLANT ANALYSIS	12.8290A
		KIT, COOLANT LEVEL SENSOR DDEC	2. 1670B
		KIT, FILTER MAINTENANCE-FUEL/OIL	12.8005A
		KIT, FUEL ANALYSIS	12.8293A
		KIT, OIL ANALYSIS	12.8291A
		KIT, OVERHAUL	5. 4118A
		L	
		LAMP, INSTRUMENTS PANEL	12.8360A
		LEVER CONTROL ASSY.	7. 7401B
		LEVER CONTROL, GEAR AND THROTTLE	7. 7430B
		LEVER, AIR INLET HOUSING SHUTDOWN VALVE	3. 3090A
		LINER, CYLINDER	1. 6180
		LINES, TORSIONAL ISOLATOR OIL	1. 4100A
		LOCK, VALVE SPRING	1. 8370
		LOCKRING, ACCESSORY DRIVE	1. 7650B
		LOCKRING, GENERATOR DRIVE BEARING	7. 1545A
		LUBRICATING COMPOUND THREAD	12.8110A
		M	
		MANIFOLD, EXHAUST	6. 1001A
		MANIFOLD, WATER OUTLET	5. 2001A
		MODULE ASSY., ELECTRONIC CONTROL (ECM)	2. 1501B

PART NAME	GROUP NO.	PART NAME	GROUP NO.
MODULE, BOAT BUILDER INTERFACE	2. 1512B	SEAL, CRANKSHAFT OIL-REAR	1. 3060
MODULE, CONTROL STATION INTERFACE	7. 7450B	SEAL, CYLINDER LINER	1. 6190
MODULE, ENGINE ROOM INTERFACE	7. 7440B	SEAL, GENERATOR DRIVE OIL	7. 1515A
MOTOR ASSY., STARTING	7. 3001A	SEAL, HEAT EXCHANGER	5. 5026A
O		SEAL, THERMOSTAT	5. 2060B
OIL, ENGINE LUBRICATING	12.8025A	SEAL, WATER OUTLET MANIFOLD	5. 2043A
P		SEALANT, RTV	12.8255A
PAINT, ENGINE TOUCH-UP	12.8001A	SENSOR, AIR PRESSURE	2. 1650B
PAN, OIL	4. 7001A	SENSOR, AIR TEMPERATURE	2. 1647B
PANEL, CONTROL	7. 7470B	SENSOR, COOLANT LEVEL	2. 1665B
PANEL, INSTRUMENTS	12.8300A	SENSOR, COOLANT PRESSURE	2. 1675B
PIN, PISTON	1. 6140	SENSOR, CRANKCASE PRESSURE	2. 1668B
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PIPE, BREATHER EXTENSION	4. 8170A	SENSOR, MAG. CRANKSHAFT	2. 1620B
PISTON ASSY.	1. 6110	SENSOR, MAG. IDLER	2. 1610B
PLATE ASSY., ELECTRONIC DISTRIBUTOR UNIT COLD	2. 1520B	SENSOR, OIL OR FUEL PRESSURE	2. 1600B
PLATE, FLYWHEEL FLEXIBLE COUPLING	1. 4085A	SENSOR, OIL, FUEL OR COOLANT TEMPERATURE	2. 1630B
PLATE, OIL COOLER CORE	4. 4010A	SEPARATOR, FUEL WATER	2. 3590A
PLUG, OIL PAN DRAIN	4. 7080A	SHAFT ASSY., ROCKER	1. 8160
PULLEY, CRANKSHAFT	1. 3280C	SHAFT, ACCESSORY DRIVE	1. 7640B
PULLEY, GENERATOR	7. 1500A	SHAFT, AIR INLET HOUSING SHUTDOWN VALVE	3. 3050A
PUMP ASSY., FRESH WATER	5. 1001	SHAFT, GENERATOR DRIVE	7. 1530A
PUMP ASSY., FUEL	2. 2001	SHELL, CONNECTING ROD BEARING	1. 6100
PUMP ASSY., OIL	4. 1001A	SHELL, CRANKSHAFT MAIN BEARING	1. 3090
PUMP ASSY., RAW WATER	5. 6001A	SHIELD, WATER ECM	2. 1523B
R		SOCKET, LAMP INSTRUMENTS PANEL	12.8365A
RETAINER, CRANKSHAFT PULLEY	1. 3290C	SOLENOID, FAN CLUTCH TEMPERATURE CONTROL	5. 4017A
RETAINER, PISTON PIN	1. 6150	SPACER, ENGINE REAR SUPPORT	11.1105A
RING SET, PISTON	1. 6115	SPACER, ENGINE RUBBER MOUNTING INSULATING	11.1140A
RING, CROSSHEAD PISTON SEAL	1. 6106	SPACER, FAN BLADE	5. 4011A
RING, ENGINE FRONT TRUNNION MOUNTING SUPPORT CUSHION	11.1094A	SPACER, GENERATOR DRIVE PULLEY SHAFT BEARING	7. 1540A
RING, INJECTOR HOLE TUBE SEAL	1. 2046	SPRING, AIR INLET HOUSING SHUTDOWN VALVE TENSION	3. 3070A
RING, PISTON COMPRESSION	1. 6120	SPRING, VALVE	1. 8340
RING, PISTON OIL CONTROL	1. 6130	STRAP, AIR CLEANER MOUNTING	3. 1220A
ROD, PUSH	1. 8180	STRAP, GENERATOR ADJUSTING	7. 1580A
ROTATOR, VALVE	1. 8365	STUD, EXHAUST MANIFOLD OUTLET	6. 1050A
S		STUD, EXHAUST MANIFOLD TO HEAD	6. 1020A
SCREEN, OIL PUMP INLET	4. 1530B	STUD, EXHAUST MANIFOLD TO TURBOCHARGER	6. 1022A
SCREW, ROCKER ARM ADJUSTING	1. 8135	SUPPORT, ENGINE FRONT TRUNNION MOUNTING	11.1090A
SEAL, AIR INLET HOUSING SHUTDOWN VALVE SHAFT	3. 3055A	SUPPORT, ENGINE REAR	11.1100A
SEAL, CRANKSHAFT OIL SEAL	1. 5004A	SWITCH, STARTING MOTOR SOLENOID	7. 3255A
SEAL, CRANKSHAFT OIL-FRONT	1. 3040	T	
		TANK, EXPANSION	5. 5001A
		THERMOSTAT ASSY.	5. 2050B
		THREADLOCK & SEALER	12.8242A
		TORSIONAL ISOLATOR	1. 4090A

PART NAME	GROUP NO.	PART NAME	GROUP NO.
TRUNNION, ENGINE FRONT	11.1088A	V	
TUBE ASSY, FUEL HIGH PRESSURE PUMP TO RAIL	2. 5075A	VALVE, AIR INLET HOUSING SHUTDOWN	3. 3040A
TUBE ASSY, FUEL RETURN MANIFOLD	2. 5225A	VALVE, EXHAUST	1. 8310
TUBE ASSY, WATER INLET/OUTLET	3. 7072	VALVE, FUEL SUPPLY CHECK	2. 5006A
TUBE ASSY, WATER MANIFOLD VENT	5. 2041A	VALVE, INTAKE	1. 8315
TUBE, AIR COMPRESSOR LUBE OIL SUPPLY	12.4065A	VALVE, OIL PRESSURE REGULATOR	4. 1700C
TUBE, AIR COMPRESSOR WATER INLET	12.4085A	VALVE, OIL PRESSURE RELIEF	4. 1582B
TUBE, AIR COMPRESSOR WATER OUTLET	12.4090A	VALVE, SEQUENTIAL ACTUATOR	6. 1007A
TUBE, AIR INLET & OUTLET INTERCOOLER	3. 7350	W	
TUBE, CHARGE AIR COOLING RETURN	5. 2091B	WASHER, CRANKSHAFT MAIN BEARING THRUST	1. 3100
TUBE, EXHAUST CROSSOVER	6. 1180A	WHEEL, SPEED SENSOR PULSE	1. 7133
TUBE, FILTER OUTLET	2. 5151A		
TUBE, FUEL DRAIN	2. 5210A		
TUBE, FUEL DRAIN CROSSOVER	2. 5205A		
TUBE, FUEL PUMP INLET	2. 5065A		
TUBE, FUEL PUMP OUTLET TO FUEL COOLER	2. 5112A		
TUBE, FUEL PUMP TO FILTER	2. 5100A		
TUBE, HEAT EXCHANGER FRESH WATER INLET CONNECTION	5. 5220A		
TUBE, HEAT EXCHANGER FRESH WATER INLET INTERMEDIATE	5. 5260A		
TUBE, INJECTOR HOLE	1. 2045		
TUBE, INTERCOOLER WATER INLET	3. 7070		
TUBE, INTERCOOLER WATER OUTLET	3. 7080		
TUBE, JUNCTION BLOCK INLET	4. 1581B		
TUBE, OIL DRAIN	4. 1695C		
TUBE, RAW WATER PUMP OUTLET	5. 6580A		
TUBE, TURBOCHARGER AIR OUTLET CONNECTION	3. 5414A		
TUBE, TURBOCHARGER OIL RETURN	3. 5505A		
TUBE, TURBOCHARGER OIL SUPPLY	3. 5500A		
TUBE, TURBOCHARGER WATER RETURN	3. 5525A		
TUBE, WATER OUTLET MANIFOLD	5. 2045A		
TUBE, WATER PUMP OUTLET	3. 7060		
TURBOCHARGER	3. 5001A		

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PART #	NAME AND DESCRIPTION	QUANTITY
1.1000 - CYLINDER BLOCK		
1.1001 BLOCK, CYLINDER		
5260100705	BLOCK ASSY., CYLINDER "G" LEVEL 12V S4000	1
000007010124	PIN, M10 X 20	12
000908014001	PLUG, M14 X 1.5	1
000912008115	BOLT, M8 X 16	2
007603014102	WASHER, A14 X 18 COPPER	1
5240110440	FILLER PIECE STRIP	1
1.1040 COVER, CYLINDER BLOCK HAND HOLE		
5240110732	COVER, ACCESS PORT STD S4000	5
000933010035	BOLT, M10 X 25	35
1.1050 GASKET, CYLINDER BLOCK HAND HOLE COVER		
5240111380	GASKET, ACCESS COVER	5
1.1055 COVER, CYLINDER BLOCK VALLEY		
735084050000	PLUG	1
5260101114	COVER, VALLEY	1
0049976736	VALVE, DRAIN	2
5249950059	STRAP 74.5 X 25	1
700429018005	SEAL RING 18 X 4	8
700429042000	SEAL RING, 42 X 5	1
700429055001	SEAL RING, 55 X 5	1
000835010056	STUD M10 X 25 DBL 8451.21 16V4000	8
000933010089	BOLT, M10 X 20	1
000933010093	BOLT, M10 X 35 8.8	23
000933010198	BOLT, M10 X 16	1
000125010524	WASHER, A10.5	23
007349010002	WASHER, 10.5 STL	2
1.1057 GASKET, CYLINDER BLOCK VALLEY COVER		
5269970345	SEAL STRIP 1057 X 5	1
1.2000 - CYLINDER HEAD		
1.2001 HEAD ASSY., CYLINDER		
5240105720	HEAD ASSY., CYLINDER W/VALVES	12
1.2010 GASKET, CYLINDER HEAD		
5240160319	SEAL RING 194.5 X 213	12
5240161580	GASKET, CYLINDER HEAD	12
1.2030 BOLT, CYLINDER HEAD		
5240160069	BOLT M22 X 335	8
5249900701	BOLT CYL HEAD M22 2.00 X 308	64
5240110062	WASHER THRUST	72
1.2000A - ENGINE LIFTER BRACKET		
1.2070 BRACKET, ENGINE LIFTER-FRONT		
5242230341	BRACKET, LIFTER	4
5240160069	BOLT M22 X 335	8
5240110062	WASHER THRUST	8

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PART #	NAME AND DESCRIPTION	QUANTITY
1.3000	- CRANKSHAFT,OIL SEALS AND STABILIZERS	
1.3040	SEAL, CRANKSHAFT OIL-FRONT	
700429150000	SEAL RING, 150 X 4 (INNER FLANGE)	1
700429180000	SEAL RING, 180 X 4 (VIBRATION DAMPER)	3
5240350124	FLANGE, DRIVE (FRONT)	1
735073008000	PLUG SEAL	2
1.3000	- CRANKSHAFT,OIL SEALS AND STABILIZERS	
1.3001	CRANKSHAFT ASSY	
5260300601	CRANKSHAFT ASSY 12V	1
1.3145	GEAR, CRANKSHAFT TIMING	
5240520203	GEAR, CRANKSHAFT S4000	1
1.3090	SHELL, CRANKSHAFT MAIN BEARING	
A SHELL SET CONSISTS OF ONE UPPER AND ONE LOWER BEARING SHELL.		
23540878	SHELL SET, UPPER/LOWER SPUTTER TABBED	6
23540940	SHELL SET /O-O/ UPR & LOWER (THRUST)	1
1.3000A	- CRANKSHAFT FRONT COVER	
1.3156	HOUSING ASSY., GEAR CASE	
5240101833	HOUSING ASSY., FRONT COVER	1
000908026005	PLUG, THREADED M26 X 1.5	3
000908038000	PLUG, SCREW M38	4
000908052003	PLUG, M52	2
5240150271	PLUG DRAIN M26X1.5X117X19	2
735073010000	PLUG SEALING M10	1
007603026101	RING, SEAL A26 X 32	1
007603026109	SEAL RING, M26 X 34	2
5240300080	SEAL, CARRIER ASSY.	1
700429015000	SEAL RING 15 X 3	2
700429290000	SEAL RING, 290 X 4	1
000931012213	BOLT, M12 X 180	2
000933012047	BOLT, M12 X 80	2
000939012023	STUD, M12 X 30	6
000125013012	WASHER, A13	6
007603038101	WASHER, A38 X 44 COPPER	4
007603052101	WASHER, A52 X 60 COPPER	2
000934012008	NUT, HEX M12	6
1.3191	COVER, ENGINE FRONT ACCESSORY DRIVE	
5366190515	5319971432	4
700429083000	SEAL RING, 83 X 5	2
5241880102	COVER, ACCESSORY DRIVE	4
5241880202	COVER	2
5241880502	COVER	1
000933010035	BOLT, M10 X 25	12

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PART #	NAME AND DESCRIPTION	QUANTITY
1.3000A - CRANKSHAFT FRONT COVER		
000933012056	BOLT, M12 X 1.75 X 30	24
1.3192 GASKET, ENGINE FRONT ACCESSORY DRIVE		
5241880080	GASKET	4
5241880180	GASKET	2
5360520080	GASKET	1
1.3000B - VIBRATION DAMPER		
1.3210 DAMPER, VIBRATION		
0000352500	DAMPER, VIBRATION	1
000933020017	BOLT, M20 X 50	12
1.3000B - VIBRATION DAMPER		
1.3210 DAMPER, VIBRATION		
5262300641	COVER ASSY., DAMPER W/OPENING	1
1.3000C - CRANKSHAFT PULLEY		
1.3280 PULLEY, CRANKSHAFT		
5242061410	PULLEY, CRANKSHAFT	1
000000000722	BOLT, M20 X 130 10.9	12
1.4000A - FLYWHEEL		
1.4001 FLYWHEEL ASSY.		
5260300905	FLYWHEEL ASSY., MDEC	1
1.4008 SEAL, FLYWHEEL OIL		
0219976647	SEAL, OIL RADIAL LIP (REAR)	1
1.5000A - FLYWHEEL HOUSING		
1.5001 HOUSING ASSY., FLYWHEEL		
000908016001	PLUG M16X1.5 DIN 908 DBL 8451.21 M91CE	2
5240103737	HOUSING ASM FLYWHEEL S4000	1
000910022003	PLUG, SCREW M22	2
000931012215	BOLT, M12 X 150	10
000933012059	BOLT, M12 X 40 10.9	7
000933012079	BOLT, M12 X 55	16
006796012100	WASHER, 12 CONICLE SPRING	33
007603016105	WASHER, A16 X 20 COPPER	2
007603022102	WASHER, A22 X 27 COPPER	2
1.5010 GASKET, FLYWHEEL HOUSING		
700429033001	SEAL RING, 33 X 5	2
1.5085 COVER, FLYWHEEL HOUSING		
304017008083	BOLT, M8 X 30	22
5240130033	COVER	1
5240130333	COVER SCREEN 114X74X1.5 16V4000	2
5240140015	COVER SCREEN 126X1.5 16V4000	1
5240140115	COVER SCREEN 104X1.5 16V4000	1
5240140215	COVER SCREEN 144X104X1.5 16V4000	2
5240140315	COVER SCREEN 99X94X1.5 16V4000	2

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PART #	NAME AND DESCRIPTION	QUANTITY
1.5000A - FLYWHEEL HOUSING		
5500780150	BUSHING 16MM DBL 8400 S4000	22
5240160007	SCREEN F/W/HSG 184 X 145	2
000933016001		
	BOLT, M16 X 20	8
304017008076		
	BOLT, M8 X 12 8.8	6
000125017014		
	WASHER, A17	8
1.5106 GUIDE, FLYWHEEL HOUSING TIMING PIN		
5240150431	INDICATOR DEAD CENTER 124X3 16V4000	1
304017008077		
	BOLT, M8 X 16 8.8	3
1.5000B - FLYWHEEL HOUSING ADAPTOR		
1.5130 ADAPTOR, FLYWHEEL HOUSING		
5260320009	ADAPTOR, FLYWHEEL	1
000912012015		
	BOLT, M12 1.75 X 60 8.8	2
1.6000 - CONNECTING ROD AND PISTON		
1.6001 CONNECTING ROD ASSY.		
A CONNECTING ROD ASSY. INCLUDES CAP, BUSHING PLUS BOLTS IN 1.6001.		
5240301020	ROD ASSY., CONNECTING	12
5240380471	BOLT M20 1.50 X 103.0	24
1.6100 SHELL, CONNECTING ROD BEARING		
23523344	SHELL SET, CONN ROD	12
1.6110 PISTON ASSY.		
A PISTON ASSY. INCLUDES PISTON DOME, SKIRT, PRESSURE PLATES, BOLTS, SPRING PIN, PISTON PIN, SNAP RINGS PLUS RINGS IN 1.6120 AND 1.6130.		
5240303917	PISTON ASSY., 15.5:1 CARBON SCRAPER	12
1.6120 RING, PISTON COMPRESSION		
0080375819	RING, TOP COMPRESSION	12
0120370819	RING, COMPRESSION 2ND	12
1.6130 RING, PISTON OIL CONTROL		
0120370618	RING, OIL CONTROL	12
1.6150 RETAINER, PISTON PIN		
000472068000		
	SNAP RING, 68 X 2.5	24
1.6181 KIT, CYLINDER LINER AND SEALS		
A CYLINDER LINER KIT INCLUDES (1) LINER AND ITEMS IN 1.6190 REQUIRED PER CYLINDER.		
23525733	KIT, CYL LINER & SEALS W/CARBON SCRAPER G LVL	12
1.6190 SEAL, CYLINDER LINER		
5550110059	SEAL CYL BLK LINER	24
5240110159	RING, CYLINDER LINER CARBON SCRAPER	12
1.7000 - CAMSHAFT AND GEAR TRAIN		
1.7220 GEAR ASSY., IDLER		
5240500405	GEAR ASSY., IDLER GEAR CASE HOUSING	2
1.7225 BEARING, IDLER GEAR		
0029923501	BUSHING, 40 X 80	2
1.7250 HUB, IDLER GEAR		
5240150417	AXLE, IDLER GEAR	2
700429024000		
	SEAL RING, 24 X 5	2
700429083000		
	SEAL RING, 83 X 5	2

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PART #	NAME AND DESCRIPTION	QUANTITY
1.7000	- CAMSHAFT AND GEAR TRAIN	
000931016068	BOLT, M16 X 160	2
000933010093	BOLT, M10 X 35 8.8	6
1.7000	- CAMSHAFT AND GEAR TRAIN	
1.7001	CAMSHAFT ASSY.	
5240500001	CAMSHAFT ASSY., 8V S4000 (INCLUDES DOWEL PINS IN 1.7001)	1
1.7007	FLANGE, CAMSHAFT DRIVE	
5240500344	FLANGE ASSY., CAMSHAFT THRUST BEARING (INCLUDES PLUGS IN 1.7007)	1
000933012051	BOLT, M12 X 50 8.8	3
1.7133	WHEEL, SPEED SENSOR PULSE	
5240521448	WHEEL, TIMING CAMSHAFT MDEC	1
1.7200	GEAR, CAMSHAFT AND BALANCE SHAFT	
5240520501	GEAR, CAMSHAFT	1
006796012100	WASHER, 12 CONICLE SPRING	5
000931012052	BOLT, M12 X 70	5
1.7000A	- BALANCE WEIGHT COVER	
1.7490	COVER, BALANCE WEIGHT COVER HOLE	
5241880102	COVER, ACCESSORY DRIVE	1
000933012056	BOLT, M12 X 1.75 X 30	6
1.7500	GASKET, BALANCE WEIGHT COVER HOLE	
5241880080	GASKET	1
1.8000	- VALVE MECHANISM	
1.8060	ARM ASSY., EXHAUST VALVE ROCKER	
5240500434	(R) ROCKER ARM ASSY., EXHAUST (INCLUDES ITEMS IN 1.8135)	12
1.8075	ARM ASSY., INTAKE VALVE ROCKER	
5240500433	(R) ROCKER ARM ASSY., INTAKE (INCLUDES ITEMS IN 1.8135)	12
1.8160	SHAFT ASSY., ROCKER	
000933010194	BOLT, M10 X 40 10.9	12
1.8170	BRACKET, ROCKER SHAFT	
5240500436	PEDESTAL ASSY., ROCKER ARM (INCLUDES ARM & PLUG IN 1.8160 & PINS IN 1.8170)	12
000471045000	RING, SNAP	24
000931016091	BOLT, M16 X 180	12
200988045000	WASHER	24
700521016200	WASHER, M16 X 2	12
1.8253	ARM ASSY., SWING EXHAUST VALVE ROCKER	
5240501735	FOLLOWER SWING ARM ASM EXHAUST CAM S4000	12
5240550505	CAM, SWING FOLLOWER AXLE	6
1.8255	ARM ASSY., SWING INTAKE VALVE ROCKER	
5240501635	FOLLOWER SWING ARM ASM INTAKE CAM S4000	12

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PART #	NAME AND DESCRIPTION	QUANTITY
1.8000	- VALVE MECHANISM	
1.8343	BRIDGE, EXHAUST VALVE	
5240551106	BRIDGE, VALVE FLOATING	24
1.8000A	- ROCKER COVER	
1.8450	COVER ASSY., ROCKER	
5240160205	ROCKER COVER	12
1.8455	GASKET, ROCKER COVER	
5240160321	GASKET, ROCKER COVER	12
1.8460	BOLT, ROCKER COVER	
000931010332		
	BOLT, M10 X 150	24
000125010524		
	WASHER, A10.5	24

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PART #	NAME AND DESCRIPTION	QUANTITY
2.1000A - FUEL INJECTOR		
2.1001 INJECTOR ASSY.		
0010106951	INJECTOR ASSY., VTO-G166W48B W/O FILTER	12
2.1040 RING, INJECTOR SEAL		
23540260	SEAL RING, INJECTOR HARDEN COPPER	1
700429021001		
	SEAL RING, 21 X 2	1
700429037000		
	SEAL RING, 37.7 X 3.53	3
2.1270 CLAMP, INJECTOR		
5240780535	CLAMP	12
5249902101	BOLT, M12 X 1.75 X 100	12
2.1000B - INJECTOR CONTROLS ELECTRONIC		
2.1501 MODULE ASSY., ELECTRONIC CONTROL (ECM)		
5275304760	CONTROL UNIT, ELECTRONIC	1
2.1000B - INJECTOR CONTROLS ELECTRONIC		
2.1520 PLATE ASSY., ELECTRONIC DISTRIBUTOR UNIT COLD		
0005461220	STRAP, GROUND	1
0005337154	ISOLATOR, MODULE CABLE	3
304017006058		
	BOLT, M6 X 12	1
304017008079		
	BOLT, M8 X 20 8.8	6
000125006431		
	WASHER, A6.4	2
2.1704 HARNESS, ENGINE SENSORS TO ECM		
0015331840	CLIP, TUBING PLASTIC DN10	10
0015331940	CLIP, TUBING PLASTIC DN17	8
5261530037	SCREEN, WIRE MTG STRIPS	2
000084005196		
	BOLT, M5 X 12	8
000933010035		
	BOLT, M10 X 25	8
200084005107		
	BOLT, M5 X 10	10
000125005322		
	WASHER A5.3 140HV DBL8451.11 DIN 125	22
007349005002		
	WASHER, 5.3	4
007349010002		
	WASHER, 10.5 STL	8
009021010201		
	WASHER, 10 5 - 140 HV	8
000934005004		
	NUT, HEX	22
2.1745 BRACKET, WIRING HARNESS		
5241503073	BRACKET ASSY.	1
5241503173	BRACKET ASSY.	1
5241503273	BRACKET	13
5241503373	BRACKET	1
5241505873	BRACKET	1
5241506073	BRACKET	1
5241506273	BRACKET ASSY.	2
5241506373	BRACKET ASSY.	1
5241506473	BRACKET ASSY.	1
5241506573	BRACKET	1
5241506673	BRACKET ASSY.	1
5241506773	BRACKET ASSY.	3
5241506873	BRACKET ASSY.	1
5241506973	BRACKET ASSY.	1
5241532040	BRACKET	1
5241532340	BRACKET	1

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PART #	NAME AND DESCRIPTION	QUANTITY
2.1000B - INJECTOR CONTROLS ELECTRONIC		
5241534240	BRACKET, 62.5 X 55 37.5 X 2.5	1
5241534640	BRACKET, 55 X 37.5 X 2.5	1
5241536140	BRACKET	1
5241536740	BRACKET	1
5315460443	BRACKET	1
8350780441	BRACKET	1
0015331840	CLIP, TUBING PLASTIC DN10	1
0015331940	CLIP, TUBING PLASTIC DN17	4
000084005194		
	BOLT, M5 X 16	1
000084005196		
	BOLT, M5 X 12	4
000931008061		
	BOLT, M8 X 40 10.9	2
000933010095		
	BOLT, M10 X 50	1
000933010198		
	BOLT, M10 X 16	2
304017008077		
	BOLT, M8 X 16 8.8	1
304017008081		
	BOLT, M8 X 25 8.8 LG	2
304017008083		
	BOLT, M8 X 30	2
304017008086		
	BOLT, M8 X 45 8.8	3
304017008088		
	BOLT, M8 X 55 8.8	2
0005334943	RETAINER, TOP DN17	15
0005335043	RETAINER, TOP DN10	16
007349005002		
	WASHER, 5.3	8
5241506173	RETAINER	1
5511530050	SPACER, 10MM X 18MM	4
5511530350	SPACER	2
5511532350	SPACER, BUSHING	3
5512030150	SPACER, 8-0.5	1
000934008008		
	NUT, HEX M8	1
2.1000B - INJECTOR CONTROLS ELECTRONIC		
2.1600 SENSOR, OIL OR FUEL PRESSURE		
0005330280	SEAL RING, 2.2 X 11.30 ID	1
0035351731	SENSOR, FUEL PRESSURE	1
0035352531	SENSOR, PRESSURE (10 BAR)	1
0035353931	SENSOR, DIN MDEC FUEL HI PRESSURE 1600 BAR	1
5240780050	BUSHING	1
2.1610 SENSOR, MAG. IDLER		
0005357533	SENSOR, SRS	1
2.1620 SENSOR, MAG. CRANKSHAFT		
0005357333	SENSOR, TRS SPEED	1
2.1647 SENSOR, AIR TEMPERATURE		
0005356430	SENSOR, AIR/FUEL/WATER TEMPERATURE	5
2.1649 SENSOR, EXHAUST TEMPERATURE		
0035352731	SENSOR, PRESSURE	1
2.1704 HARNESS, ENGINE SENSORS TO ECM		
5275301322	HARNESS, WIRING SENSOR	1
5275301722	HARNESS, WIRING SENSOR	1
2.1705 HARNESS ASSY., INJECTOR SOLENOID WIRING		
5275307821	HARNESS, WIRING INJECTOR	1
2.1910 CABLE		

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PART #	NAME AND DESCRIPTION	QUANTITY
2.1000B - INJECTOR CONTROLS ELECTRONIC		
5265303835	HARNESS, WIRING B13	1
2.2000 - FUEL PUMP		
2.2001 PUMP ASSY., FUEL		
735151010100		
	WASHER, A10.5	2
5240900450	PUMP, FUEL DELIVERY	1
700429083000		
	SEAL RING, 83 X 5	1
0000910124	COUPLING	1
000933010093		
	BOLT, M10 X 35 8.8	2
2.2260 ADAPTOR, FUEL PUMP DRIVE		
5240910024	ADAPTOR	1
2.2000 - FUEL PUMP		
2.2006 PUMP ASSY., FUEL HIGH PRESSURE		
5260701201	PUMP FUEL HIGH PRESSURE S4000	1
000933012051		
	BOLT, M12 X 50 8.8	4
200433013000		
	WASHER	4
735151012100		
	WASHER, A12.5	4
2.3000A - FUEL FILTER		
2.3310 FILTER ASSY., FUEL		
5240900212	FILTER HEAD, FUEL JUNCTION BLOCK LOW PRESSURE	1
000933010093		
	BOLT, M10 X 35 8.8	7
735210033000		
	PLUG	2
2.3000A - FUEL FILTER		
2.3310 FILTER ASSY., FUEL		
0020922801	FILTER, EASY CHANGE	2
2.5000A - FUEL LINES		
2.5075 TUBE ASSY., FUEL HIGH PRESSURE PUMP TO RAIL		
5240920024	ELBOW, FUEL	1
700429042000		
	SEAL RING, 42 X 5	2
304017008086		
	BOLT, M8 X 45 8.8	2
2.5000A - FUEL LINES		
2.5065 TUBE, FUEL PUMP INLET		
5240910145	FLANGE	1
700429037002		
	SEAL RING, 37 X 3	2
2.5075 TUBE ASSY., FUEL HIGH PRESSURE PUMP TO RAIL		
700327018000		
	GROMMET, M18	3
5240781841	BRACKET	1
5801533240	BRACKET L	1
700325022100		
	CLAMP, HALF TUBE 1/1 D9 - 22 MM	5
700325022200		
	CLAMP, HALF TUBE	1
304017008085		
	BOLT, M8 X 40 8.8	1

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PART #	NAME AND DESCRIPTION	QUANTITY
2.5000A - FUEL LINES		
304017008086	BOLT, M8 X 45 8.8	1
007349008002	WASHER, 8.4	1
2.5210 TUBE, FUEL DRAIN		
5240983253	TUBE, FUEL CONNECTION	2
5260700638	TUBE, FUEL SUPPLY	1
735211022000	UNION	1
0009976687	FLANGE	1
5240910189	FLANGE, FUEL CONNECTOR	2
700429024001	SEAL RING 24 X 2.5	8
700429042001	O-RING, 42 X 3 MMN429	1
700429037002	SEAL RING, 37 X 3	1
304014008029	BOLT, M8 X 70 8.8	4
000125008427	WASHER, A8.4	4
2.5000A - FUEL LINES		
2.5075 TUBE ASSY., FUEL HIGH PRESSURE PUMP TO RAIL		
700325018100	CLAMP, HALF TUBE	1
700325022114	CLAMP, PIPE HALF	14
304017008089	BOLT, M8 X 60.0	1
2.5100 TUBE, FUEL PUMP TO FILTER		
5260700438	LINE ASSY., FUEL LOW PRESSURE (A-BANK)	1
5260700538	LINE ASSY., FUEL LOW PRESSURE (B-BANK)	1
2.5205 TUBE, FUEL DRAIN CROSSOVER		
5240702738	TUBE, FUEL RETURN	1
5240702838	TUBE, FUEL RETURN	1
2.5210 TUBE, FUEL DRAIN		
5240702832	TUBE ASSY., FUEL RETURN	12
5240702938	TUBE, FUEL LINE RETURN	1
5240709632	TUBE, FUEL RETURN LINE	1
735211012000	UNION	1
915006004002	UNION, 4	24
915013006002	UNION	1
000931010283	BOLT, M10 1.5 X 75	2
007603012111	WASHER, A12 X 15.5 COPPER	14
2.5225 TUBE ASSY., FUEL RETURN MANIFOLD		
5280700832	TUBE, FUEL RETURN	1
5280700932	TUBE, FUEL RETURN	1
000933010094	BOLT, M10 X 40	7
5569970274	TEE, FITTING	1
700223004000	BOLT, BANJO A4	1
915005008001	FITTING, TAPERED SEALING	2
700327012000	GROMMET, M12	1
700327018000	GROMMET, M18	6

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PART #	NAME AND DESCRIPTION	QUANTITY
2.5000A - FUEL LINES		
700325018200	CLAMP, HALF TUBE	1
700325022114	CLAMP, PIPE HALF	4
735028016001	NUT, M16 X 1.5	2
007603012111	WASHER, A12 X 15.5 COPPER	14
000908012003	PLUG M 12 X 1.5 DIN 908 4.6 DBL 8451.21	1
2.5000A - FUEL LINES		
2.5148	TUBE, FUEL FILTER TO JUNCTION BLOCK	
5280700632	LINE, FUEL	1
735211008000	UNION	2
735211015002	UNION	2
700429180000	SEAL RING, 180 X 4	1
915005013004	CONE, SEALING	2
915001013003	NUT	2

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PART #	NAME AND DESCRIPTION	QUANTITY
3.1000A - AIR CLEANER		
3.1230	BRACKET, AIR CLEANER MOUNTING	
5240180840	BRACKET	1
5240900241	BRACKET	4
5240981739	BRACKET	4
5240981839	BRACKET	4
5511532350	SPACER, BUSHING	2
000125008427		
	WASHER, A8.4	12
007349008002		
	WASHER, 8.4	4
007349010002		
	WASHER, 10.5 STL	4
304017008079		
	BOLT, M8 X 20 8.8	12
304017008081		
	BOLT, M8 X 25 8.8 LG	4
3.1259	ELBOW, TURBOCHARGER AIR INLET	
5240902428	ELBOW, 150 X 205	4
700336150004		
	SLEEVE, RUBBER	4
700368028002		
	SLEEVE, RUBBER	8
900288037003		
	CLAMP	16
900288166002		
	CLAMP	8
007603010110		
	WASHER, A10 X 13.5 COPPER	4
007603014102		
	WASHER, A14 X 18 COPPER	4
114C52010/1		
	BUSHING, THREADED	4
000931008240		
	BOLT, M8 X 90 10.9	1
304017008088		
	BOLT, M8 X 55 8.8	1
000934008013		
	NUT, HEX M8	1
007603020101		
	WASHER, A20 X 24 COPPER	4
000908010002		
	PLUG, THREADED M10 X 1	4
000908020000		
	PLUG, THREADED M20 X 1.5	4
700327028000		
	GROMMET M28 MMN 327 M91CE S2000	3
3.1260	PIPE, AIR CLEANER TO INLET HOUSING	
5240180812	PIPE, VENT	1
5240180912	PIPE, VENT	1
5240181012	PIPE, VENT	1
5240181112	PIPE, VENT	1
3.1280	CLAMP, AIR INLET PIPE HOSE	
700325035100		
	PIPE, CLAMP HALF	6
3.3000C - AIR INTAKE MANIFOLD		
3.3801	AIR INTAKE MANIFOLD	
5240980907	MANIFOLD AIR (CENTER)	4
5240981107	MANIFOLD AIR CHARGE (FRONT)	1
5240981407	MANIFOLD AIR CHARGE (FRONT)	1
700354014003		
	ADAPTOR, BUSHING M14 X 1.5	2
000931010345		
	BOLT, M10 X 140	24

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PART #	NAME AND DESCRIPTION	QUANTITY
3.3000C - AIR INTAKE MANIFOLD		
000125010524	WASHER, A10.5	12
007603014102	WASHER, A14 X 18 COPPER	2
007603022102	WASHER, A22 X 27 COPPER	2
007603052101	WASHER, A52 X 60 COPPER	2
700429140000	SEAL RING, 140 X 8	5
000908014001	PLUG, M14 X 1.5	2
000908052003	PLUG, M52	2
3.3803	GASKET, AIR INTAKE MANIFOLD	
5240980680	GASKET	12
3.5000A - TURBOCHARGER		
3.5001 TURBOCHARGER		
5241420152	SPACER	8
5260200805	TURBOCHARGER ASM 1.08A/R BTV7507	4
3.5003	HOUSING TURBOCHARGER TURBINE	
23505781	KIT, TURBINE V-BAND W/NUT	1
3.5022	HOUSING TURBOCHARGER COMPRESSOR	
23505789	KIT, COMPRESSOR V-BAND W/NUT	1
23526526	BOLT, M10 X 1.5 X 40.0	16
11506101	NUT, M10 X 1.5	16
3.5307	GASKET, TURBOCHARGER EXHAUST INLET CONNECTION	
23517076	GASKET TURB EXH INLET S50G	4
3.5000A - TURBOCHARGER		
3.5324	ADAPTOR, TURBOCHARGER EXHAUST OUTLET	
5241420302	OUTLET, TURBO EXHAUST	2
3.5325	GASKET, TURBOCHARGER EXHAUST OUTLET	
5244920181	SEAL RING EXHAUST 4.5620 DIA	4
3.5330	BRACKET, TURBOCHARGER EXHAUST OUTLET ADAPTOR	
5241420540	BRACKET	4
000933010095	BOLT, M10 X 50	2
11504516	BOLT, M10 X 1.5 X 35 LG	2
11506101	NUT, M10 X 1.5	6
5511531250	SPACER, 30MM	2
3.5000A - TURBOCHARGER		
3.5414	TUBE, TURBOCHARGER AIR OUTLET CONNECTION	
000000001039	BOLT M10 X 40 8.8 16V4000	8
000125010524	WASHER, A10.5	8
000934010007	NUT, HEX M10	8
0289976148	O-RING 150 X 5.2 16V4000	2
5240980082	SLEEVE RUBBER 16V4000	6
23540064	COLLECTOR, CHARGE AIR (LB)	1
23540065	COLLECTOR, CHARGE AIR (RB)	1
23540070	TUBE, CHARGE AIR LEFT BANK	1
23540071	TUBE, CHARGE AIR RIGHT BANK	1
23540560	CLAMP, HOSE T-BOLT 3.5"-4.00"	12
3.7000 - INTERCOOLER/AFTERCOOLER		
3.7001 INTERCOOLER ASSY.		

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PART #	NAME AND DESCRIPTION	QUANTITY
3.7000	- INTERCOOLER/AFTERCOOLER	
5260900014	COOLER ASSY., CHARGE AIR	1
5366190515	5319971432	4
3.7003	BRACKET, INTERCOOLER MOUNTING	
5240980730	SUPPORT BRACKET RIGHT LWR SCAC	1
5240980830	SUPPORT BRACKET LEFT LWR SCAC	1
5260980230	BRACKET, SUPPORT UPPER 'V' SCAC	2
000933012080		
	BOLT, M12 X 35 10.9	8
000933012120		
	BOLT, M12 X 45	6
5249900304	BOLT, M12 1.75 X 65.0	4
5249901901	BOLT	10
5269900101	BOLT, M16 2.00 X 110.0 HEX HD	6
5249900140	WASHER M16-31.69 X 17.39 X 3.0	6
5249900740	WASHER	14
5269900051	NUT	8
3.7300	HOUSING, INTERCOOLER	
5240980937	HOUSING ASSY., AIR OUTLET	1
000933008204		
	BOLT, M8 X 30 10.9	36
5249900340	WASHER, M8 X 9.0 X 18.6 X 2.0	36
5269870235	SEAL, CHARGE AIR COOLER	1
5249910160	PIN ROLL	2
3.7305	ELBOW, WATER INLET & OUTLET INTERCOOLER	
5260980015	ELBOW, AIR OUTLET LEFT BANK	1
5260980115	ELBOW, AIR OUTLET RIGHT BANK	1
5269970045	SEAL RING, SQUARE SECTION	2
700429140000		
	SEAL RING, 140 X 8	2
5319971132	PLUG ASSY., M18 X 1.5	1
5366190515	5319971432	1
3.7000	- INTERCOOLER/AFTERCOOLER	
3.7300	HOUSING, INTERCOOLER	
000931008240		
	BOLT, M8 X 90 10.9	1
5240940153	SPACER	1
5240982637	HOUSING CAC INLET TOP 16V4000	1
700429870000		
	O-RING 16V4000	1
304017008037		
	BOLT, M8 X 65 10.9	27
5240940253	SPACER, LONG 20.0 X 25.0	3

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PART #	NAME AND DESCRIPTION	QUANTITY
4.1000A - OIL PUMP		
4.1001 PUMP ASSY., OIL		
0021803401	OIL PUMP (16V)	1
304014010013		
	BOLT, M10 1.50 X 120 10.9	3
304017010051		
	BOLT, M10 1.50 X60 10.9	1
5241871853	SPACER	1
735151010100		
	WASHER, A10.5	3
4.1000B - OIL DISTRIBUTION SYSTEM		
4.1510 PIPE, OIL PUMP INLET		
000125008427		
	WASHER, A8.4	4
304017008087		
	BOLT, M8 X 50 8.8	4
700429075002		
	SEAL RING, 75 X 3.5	1
5241870087	TUBE, CONNECTOR	1
5241871053	TUBE, FLOATING OIL PAN ASSY.	1
700429070000		
	SEAL RING, 70 X 5	2
4.1530 SCREEN, OIL PUMP INLET		
007349008002		
	WASHER, 8.4	4
304017008087		
	BOLT, M8 X 50 8.8	4
5241800155	BASKET, OIL PICKUP	1
4.1000C - OIL PRESSURE REGULATOR		
4.1695 TUBE, OIL DRAIN		
700223006000		
	BOLT, BANJO	2
5271800419	TUBE ASSY., OIL LINE	1
4.1697 CLIP, OIL DRAIN TUBE		
5241872240	BRACKET	1
700325012100		
	CLAMP, HALF TUBE	2
304017008083		
	BOLT, M8 X 30	1
700327008000		
	GROMMET, M8	1
4.1700 VALVE, OIL PRESSURE REGULATOR		
007603014102		
	WASHER, A14 X 18 COPPER	4
0001800015	VALVE, PRESSURE REDUCING (INCLUDES 1-700429037000 SEAL RING)	1
4.2000A - OIL FILTER		
4.2240 FILTER ASSY., OIL		
000439016200		
	NUT, HEX	1
5241802019	TUBE ASSY., SOL OIL SUPPLY	1
5849972672	UNION, CONNECTOR	1
5241800711	ADAPTOR ASSY., OIL FILTER VERTICAL W/45DEG	1
5849900615	VALVE, NEEDLE M10 X 1 X 48	1
5241840409	FLANGE, CENTRIFUGAL OIL	1
000933010093		
	BOLT, M10 X 35 8.8	7
000933012051		
	BOLT, M12 X 50 8.8	6
000125010524		
	WASHER, A10.5	7

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PART #	NAME AND DESCRIPTION	QUANTITY
4.2000A - OIL FILTER		
000125013012	WASHER, A13	4
007603014102	WASHER, A14 X 18 COPPER	1
007603016105	WASHER, A16 X 20 COPPER	2
5249970545	SEAL, SQUARE 130.22 OD X 123.42 ID X 3.40	1
5249970645	SEAL, SQUARE 66.72 OD X 59.92 ID X 3.40	3
700429058001	RING-O, 58 X 4 MMN 429	3
700429065000	SEAL RING, 65 X 4	1
4.2250 ELEMENT, OIL FILTER		
5241840101	FILTER, OIL	4
4.2440 BRACKET, OIL FILTER MOUNTING		
5241840440	BRACKET	1
000933010058	BOLT, M10 X 35 10.9	5
4.4000A - OIL COOLER		
4.4001 CORE, OIL COOLER ENGINE		
5241880226	(R) ELEMENT COOLER 30 PLATE	6
4.4040 GASKET, OIL COOLER CORE OUTER		
5249970245	SEAL RING	24
700429290000	SEAL RING, 290 X 4	2
4.4050 HOUSING, OIL COOLER ENGINE		
5241880604	HOUSING, OIL COOLER 30 PLATE	2
000931010247	BOLT, M10 X 1.5 X 120	2
000933010155	BOLT, M10 X 70	14
00218443	NUT	12
5249970040	WASHER, SEALING	12
4.4218 CONNECTION, OIL COOLER WATER CROSSOVER		
5241870253	COOLER TUBE CROSSOVER	1
5241880140	RETAINER CROSSOVER TUBE	1
5249970145	SEAL RING, 101.90 OD X 94.84 ID	2
700429100001	SEAL RING, 100 X 4	1
200982010000	NUT	1
4.5000A - OIL, FILLER		
4.5001 TUBE, OIL FILLER		
5240100264	FILLER NECK, OIL	1
000933010035	BOLT, M10 X 25	7
4.5010 CAP, OIL FILLER		
0000181802	CAP, OIL FILLER	1
4.5080 GASKET, OIL FILLER HOLE COVER		
5240111380	GASKET, ACCESS COVER	2
4.6000A - DIPSTICK		
4.6001 DIPSTICK		
5240102272	DIPSTICK, OIL 675 X 495 X 654	1
4.6020 GUIDE, DIPSTICK		
5240100266	TUBE ASSY., DIPSTICK W/7 BOLT COVER	1

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PART #	NAME AND DESCRIPTION	QUANTITY
4.6000A - DIPSTICK		
8800180770	CONNECTOR, THREADED	1
700429012002	SEAL RING 12 X 5	1
000933010035	BOLT, M10 X 25	7
007603022102	WASHER, A22 X 27 COPPER	1
4.7000A - OIL PAN		
4.7001 PAN, OIL		
000125010524	WASHER, A10.5	8
000931010315	BOLT, M10 X 100	8
000931012176	BOLT, M12 X 150	10
000933010095	BOLT, M10 X 50	28
007349013002	WASHER, M13	10
5260140102	PAN OIL CAST ALUM 12V4000 GENSETS	1
735151010100	WASHER, A10.5	28
4.7030 GASKET, OIL PAN TO BLOCK		
5269870535	RUBBER SEAL	1
4.7080 PLUG, OIL PAN DRAIN		
000908012003	PLUG M 12 X 1.5 DIN 908 4.6 DBL 8451.21	2
007603012111	WASHER, A12 X 15.5 COPPER	2
4.7120 COVER, OIL PAN		
000933010035	BOLT, M10 X 25	2
5240140033	COVER 16V4000	1
4.7130 GASKET, OIL PAN COVER		
5240140080	GASKET 16V4000	1
4.8000A - VENTILATING SYSTEM		
4.8001 PIPE ASSY, BREATHER		
5240100824	LINE, VENT	1
5240101024	LINE, VENT	1
5240101124	LINE, VENT	1
700429031002	RING, O	2
000912010065	BOLT, M10 1.50 X 25 8.8	4
4.8010 EXTENSION, BREATHER TUBE		
5240180053	TUBE SLEEVE GUIDE	4
900288049003	CLAMP	8
700368038001	SLEEVE, RUBBER	2
700368038005	SLEEVE, RUBBER	2
000933012058	BOLT, M12 X 20	1
4.8045 BREATHER ASSY.		
0000186235	CANISTER, CYLINDER BLOCK BREATHER	4
5241501973	BRACKET	1
5502030343	BRACKET	1
000000000668	CLAMP	2

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PART #	NAME AND DESCRIPTION	QUANTITY
4.8000A	- VENTILATING SYSTEM	
5249950032	CLAMP	4
5279950005	CLAMP	8
007349010001		
	WASHER	2
000931010292		
	BOLT, M10 X 110	8
000931010345		
	BOLT, M10 X 140	2
000933012051		
	BOLT, M12 X 50 8.8	2
000933012054		
	BOLT, M12 X 25	2
304017008083		
	BOLT, M8 X 30	2
5599920401	SPACER	2
5599920901	SPACER	8
735151010100		
	WASHER, A10.5	8
000934010005		
	NUT, HEX M10	6
5241870553	SLEEVE	2
4.8170	PIPE, BREATHER EXTENSION	
304017008083		
	BOLT, M8 X 30	4
4.8175	HOSE, BREATHER EXTENSION	
700368010001		
	HOSE	2
900288019005		
	CLAMP	4
915001008003		
	UNION NUT	2
915005008001		
	FITTING, TAPERED SEALING	1
700368028002		
	SLEEVE, RUBBER	1
4.8180	CLAMP, BREATHER EXTENSION PIPE HOSE	
000125008427		
	WASHER, A8.4	2
4.8183	BRACKET, BREATHER EXTENSION PIPE	
5502030143	BRACKET	1
5550781541	BRACKETT 16V4000	3
5599920101	SPACER, 22 X 20 X 12	1
4.8187	HOSE, OIL DRAIN	
5530720238	STRAP 98	1
700327010000		
	GROMMET, M10	7
5240100055	TUBE ASSY, BREATHER DRAIN	1
5240100377	TUBE	1
5240101870	TUBE	1
5240101970	TUBE	1
5240102570	TUBE	1
5240104770	TUBE	1
5240106770	TUBE	1
5260100570	LINE, OIL RETURN	1
5260100670	LINE, OIL RETURN	1
700368010001		
	HOSE	2
915007010001		
	CONNECTOR 10/8	1
000933010035		
	BOLT, M10 X 25	5
000933010092		
	BOLT, M10 X 30 8.8	2
000933012050		
	BOLT, M12 X 1.75 X 55 8.8	2

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PART #	NAME AND DESCRIPTION	QUANTITY
4.8000A - VENTILATING SYSTEM		
304017008085	BOLT, M8 X 40 8.8	1
700325015100	CLAMP, TUBE HALF	11
700325015200	CLAMP, HALF TUBE	3
900288019005	CLAMP	4
007603018101	WASHER, A18 X 22 COPPER	1
007603026104	WASHER, A26 X 31 COPPER	1
5599920601	SPACER, 12MM X 20MM	1
5569970674	FITTING	2
915007016000	FITTING	1
915001008003	UNION NUT	3
5590140845	FLANGE	1
5602030280	GASKET	1

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PART #	NAME AND DESCRIPTION	QUANTITY
5.1000	- FRESH WATER PUMP	
5.1001	PUMP ASSY., FRESH WATER	
5272002101	PUMP ASSY., WTR LOW TEMP CLG CIRCUIT	1
0049976736	VALVE, DRAIN	1
000931012143		
	BOLT, M12 X 70	1
000933012051		
	BOLT, M12 X 50 8.8	2
000125013012		
	WASHER, A13	3
000934012008		
	NUT, HEX M12	1
5.1010	GASKET, FRESH WATER PUMP	
700429130003		
	SEAL RING, 130 X 5	1
5.1000	- FRESH WATER PUMP	
5.1001	PUMP ASSY., FRESH WATER	
23523200	(R) PUMP KIT, WATER HI TEMP CLG CIRCUIT	1
5.1001	PUMP ASSY., FRESH WATER	
	A PUMP KIT INCLUDES PUMP ASSY. AND ITEMS IN 5.1010.	
5.1010	GASKET, FRESH WATER PUMP	
700429120002		
	SEAL RING, 120 X 6	1
700429130003		
	SEAL RING, 130 X 5	1
000931012143		
	BOLT, M12 X 70	1
000931012176		
	BOLT, M12 X 150	1
000933012051		
	BOLT, M12 X 50 8.8	1
000125013012		
	WASHER, A13	3
000934012008		
	NUT, HEX M12	1
5.2000A	- WATER OUTLET MANIFOLD	
5.2045	TUBE, WATER OUTLET MANIFOLD	
000125010524		
	WASHER, A10.5	3
000125013012		
	WASHER, A13	2
000908030002		
	PLUG, SCREW M30	1
0049976736	VALVE, DRAIN	1
007603018101		
	WASHER, A18 X 22 COPPER	2
007603030101		
	WASHER, A30 X 36 COPPER	1
5242000184	CONNECTING PIECE 25 X 20 M90CE S4000	1
5242001118	ELBOW ASSY., W/FLG 1460.D.	1
5242030340	SUPPORT, MOUNTING HOLDER	1
700223010000		
	BOLT BANJO A12 MMN223 M91CE S2000	1
000933010094		
	BOLT, M10 X 40	3
000933012051		
	BOLT, M12 X 50 8.8	2
5.2000A	- WATER OUTLET MANIFOLD	
5.2001	MANIFOLD, WATER OUTLET	
5242030408	MANIFOLD, WATER L BANK CONNECTOR	1
5242030508	MANIFOLD, WATER R BANK CONNECTOR	1
5242030901	MANIFOLD, WATER RB FRONT	1

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PART #	NAME AND DESCRIPTION	QUANTITY
5.2000A - WATER OUTLET MANIFOLD		
5242031001	MANIFOLD, WATER CENTER	2
5242031101	MANIFOLD, WATER R BANK REAR	1
5242031201	MANIFOLD, WATER L BANK FRONT	1
5242031301	MANIFOLD, WATER L BANK REAR	1
5366190515	5319971432	2
000931010292		
	BOLT, M10 X 110	1
000931010315		
	BOLT, M10 X 100	11
000933010073		
	BOLT, M10 X 80 LG	1
007349010002		
	WASHER, 10.5 STL	1
5599920201	SPACER, 12MM X 20MM	1
5.2010 GASKET, WATER OUTLET MANIFOLD		
700429024000		
	SEAL RING, 24 X 5	12
5.2043 SEAL, WATER OUTLET MANIFOLD		
700429063000		
	SEAL RING, 63 X 5	4
700429083000		
	SEAL RING, 83 X 5	2
700429085002		
	SEAL RING, 85 X 6	8
5.2045 TUBE, WATER OUTLET MANIFOLD		
5242032053	CONNECTOR, WATER TUBE 98 X 70	2
5242032253	TUBE, 98 X 240	1
700429100000		
	O-RING, 100 X 5MMN429	2
5242030039	FLANGE	1
5242030139	FLANGE	2
000931010283		
	BOLT, M10 1.5 X 75	10
000933010094		
	BOLT, M10 X 40	4
5.2000A - WATER OUTLET MANIFOLD		
5.2041 TUBE ASSY., WATER MANIFOLD VENT		
000908012003		
	PLUG M 12 X 1.5 DIN 908 4.6 DBL 8451.21	1
5240940153	SPACER	1
5500784541	STRAP, 65 X 20 X 4	3
735211008001		
	UNION, SCREW TYPE	5
735211010000		
	UNION	2
915005010000		
	CONE, SEALING	2
915013006002		
	UNION	4
5242000418	TUBE ASSY., VENT 90 DEG M14 X 1.5	2
5242002058	LINE, VENT	1
5242002158	LINE, VENT	1
5242002358	LINE, VENT	1
5242002751	TUBE	1
5242002851	TUBE	1
5242002951	TUBE	1
5242003551	TUBE	1
5242003651	TUBE	1
5242003751	TUBE	1
5242003851	TUBE	1
5242004151	TUBE	1
5242004251	TUBE	1
5242004351	TUBE	1
5242004451	TUBE	1

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PART #	NAME AND DESCRIPTION	QUANTITY
5.2000A - WATER OUTLET MANIFOLD		
5242004651	TUBE	1
5242005351	TUBE	1
5242009951	TUBE	1
5569970574	FITTING, TEE M14 X 1.5	6
5502030529	BLOCK, DEAERATION JUNCTION	2
915006006000	UNION	7
000908014001	PLUG, M14 X 1.5	4
000933010094	BOLT, M10 X 40	1
000933010198	BOLT, M10 X 16	1
304017008089	BOLT, M8 X 60.0	2
5241870840	BRACKET	1
5502030143	BRACKET	2
5511530050	SPACER, 10MM X 18MM	1
5801533240	BRACKET L	1
8381594740	BRACKET	1
700327008000	GROMMET, M8	15
700325012100	CLAMP, HALF TUBE	11
700325012104	CLAMP, HALF TUBE 2/1	4
700325012111	CLAMP, HALF TUBE	2
700325012200	CLAMP, HALF TUBE	1
700325012202	CLAMP, HALF TUBE	4
304017008079	BOLT, M8 X 20 8.8	1
304017008081	BOLT, M8 X 25 8.8 LG	5
304017008083	BOLT, M8 X 30	1
304017008086	BOLT, M8 X 45 8.8	1
000125010524	WASHER, A10.5	1
007349008002	WASHER, 8.4	2
007603012111	WASHER, A12 X 15.5 COPPER	3
007603014102	WASHER, A14 X 18 COPPER	11
007603018101	WASHER, A18 X 22 COPPER	2
000934008008	NUT, HEX M8	2
5.2000B - THERMOSTAT		
5.2060 SEAL, THERMOSTAT		
5132155	SEAL	2
5.2090 HOUSING, THERMOSTAT		
5242032873	HOUSING, THERMOSTAT	1
5242030680	GASKET	1
0052031675	ACTUATOR, THERMAL	2
700429072000	SEAL RING, 72 X 3	1
5319970832	PLUG, M22 X 1.5	1
000931008144	BOLT, M8 X 120	1
000931008241	BOLT, M8 1.25 X 75	2

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PART #	NAME AND DESCRIPTION	QUANTITY
5.2000B - THERMOSTAT 007349008002	WASHER, 8.4	3
5.2110 GASKET, THERMOSTAT HOUSING 700429072000	SEAL RING, 72 X 3	1
5.2120 COVER, THERMOSTAT HOUSING 5242030074 000931010283	HSG COVER	1
5249900812	BOLT, M10 1.5 X 75	6
5242030542	BOLT, M16 X 2 X 319.0 SPACER	2 1
5.2000B - THERMOSTAT		
5.2050 THERMOSTAT ASSY. 0052031875	THERMOSTAT, START 175 FULL 198 DEG	4
5.2090 HOUSING, THERMOSTAT 5242001516 000931010308	HOUSING, THERMOSTAT HI TEMP	1
000931010332	BOLT, M10 X 50	1
	BOLT, M10 X 150	4
5.2110 GASKET, THERMOSTAT HOUSING 0002034480 700429070000	RING, SEALING 67.5 OD X 57.76 ID X 6.4	4
700429100001	SEAL RING, 70 X 5	1
	SEAL RING, 100 X 4	1
5.2155 HOUSING, WATER DISTRIBUTION 5272030552	RESTRICTOR	1
5.2000B - THERMOSTAT		
5.2155 HOUSING, WATER DISTRIBUTION 23540911 5319972232	HOUSING, WATER DISTRIBUTION PLUG ASSY., M60 X 2 (INCLUDES 1-5319974245 SEAL RING)	1 1
5242032722 000908014001	ELBOW, COOLANT DISTRIBUTION HSG	1
000908030002	PLUG, M14 X 1.5	2
000908038000	PLUG, SCREW M30	1
5242030686 5366190515 000931010105	PLUG, SCREW M38 COVER 5319971432	4 1 3
000931012143	BOLT, M10 X 60	3
000931016080	BOLT, M12 X 70	5
000931016125	BOLT, M16 X 150	1
000933010035	BOLT, M16 X 180	10
000933012051	BOLT, M10 X 25	3
5242030939 007603014102	BOLT, M12 X 50 8.8 COVER PLATE	4 1
007603038101	WASHER, A14 X 18 COPPER	2
700429042000	WASHER, A38 X 44 COPPER	1
	SEAL RING, 42 X 5	1

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PART #	NAME AND DESCRIPTION	QUANTITY
5.2000B - THERMOSTAT		
700429055001	SEAL RING, 55 X 5	1
700429070000	SEAL RING, 70 X 5	3
700429080001	SEAL RING, 80 X 5	1
700429083000	SEAL RING, 83 X 5	4
5242030080	GASKET	1
5.3000B - WATER CONNECTIONS		
5.3329 TUBE, WATER PUMP INLET		
5249970078	COUPLING ASSY., RING	7
5262000951	TUBE ASSY.	1
5262001051	TUBE ASSY.	1
5242030840	SUPPORT/CLAMP, COOL TUBE CAC	12
007603014102	WASHER, A14 X 18 COPPER	2
700429072000	SEAL RING, 72 X 3	1
000933010092	BOLT, M10 X 30 8.8	3
8929357	BOLT, M10 X 1.5 X 120 (12.9001)	6
5242030452	WASHER	2
5509970530	PLUG	4
5.3336 ELBOW, WATER PUMP OUTLET		
5242000351	TUBE ASSY., WATER TOP CAC	1
5242001852	TUBE ASSY.	1
5242006552	TUBE ASSY.	1
5242031040	CLAMP TUBE	2
007603014102	WASHER, A14 X 18 COPPER	2
000933010092	BOLT, M10 X 30 8.8	3
11504571	BOLT, M10 X 1.5 X 65.0MM	1
5249900751	NUT, HEX	1
007603018101	WASHER, A18 X 22 COPPER	4
000125010524	WASHER, A10.5	3
000908014001	PLUG, M14 X 1.5	2
5.3337 GASKET, WATER PUMP INLET AND OUTLET ELBOW		
5272030080	GASKET	1

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PART #	NAME AND DESCRIPTION	QUANTITY
6.1000A - EXHAUST MANIFOLD		
6.1001	MANIFOLD, EXHAUST	
5261420104	PIPE, EXHAUST	2
5261420204	PIPE, EXHAUST	2
5261420304	PIPE, EXHAUST	2
0001426157	RING, SEALING	4
8929357	BOLT, M10 X 1.5 X 120 (12.9001)	48
23511667	SPACER	48
5249900154	NUT, UNION	4
6.1010	GASKET, EXHAUST MANIFOLD	
5241420580	GASKET, EXHAUST MANIFOLD	12

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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
7.1500 PULLEY, GENERATOR		
5241550015	PULLEY, ALTERNATOR 12-16V	1
7.1507 DRIVE ASSY., GENERATOR		
5240050015	(R) DRIVE ASSY., ACCESSORY	1
11509528	BOLT, M12 X 1.75 X 30 MM	6
7.1508 GASKET, GENERATOR DRIVE		
700429135000	SEAL RING, 135 X 5	1
7.1575 BELT, GENERATOR DRIVE		
5249970192	BELT, ALTERNATOR (1029.5) 12-16V	1
7.1580 STRAP, GENERATOR ADJUSTING		
23511669	LINK, ADJUSTING ROD	1
23511670	ROD, ALTERNATOR ADJUSTING M16 X 2 X 254	1
5241540076	BRACKET, ALTERNATOR TENSION ADJ. ROD	1
000931010127	BOLT, M10 X 1.50 X 80	1
23505062	BOLT, M10 X 1.5 X 40	2
442733	BOLT, 1/2"-13 X 1.25" (12.9001)	1
103345	WASHER, 5/8"	2
11501055	NUT, M16X2.0	2
11506101	NUT, M10 X 1.5	3
7.1585 GUARD, GENERATOR DRIVE BELT AND PULLEY		
23540264	GUARD ASSY., ALTERNATOR BELT	1
23526592	BOLT, M10 1.50 X 105	1
7.1595 BRACKET, GENERATOR MOUNTING		
5241550527	BRACKET, ALTERNATOR MOUNTING	1
23526406	BOLT, M12 1.75 X 35.0	4
5130037	BOLT, 1/2"-13X8 1/2" (5.4290)	1
000125013012	WASHER, A13	2
102637	NUT, 1/2"-13	1
7.3000A - STARTING MOTOR		
7.3001 MOTOR ASSY., STARTING		
10479199	STARTER, R BANK 50 MT 24V	1
10479200	STARTER, L BANK 50 MT 24V	1
000912016002	BOLT, M16 X 40	6

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PART #	NAME AND DESCRIPTION	QUANTITY
11.1000A - ENGINE MOUNTS		
11.1075	BRACKET, ENGINE SUPPORT	
000933010180	BOLT, M10 X 28	8
200933020004	BOLT, M20 X 200	16
000125010524	WASHER, A10.5	8
200433021000	WASHER 21 DIN433 S4000 M90CE	16
11.1090	SUPPORT, ENGINE FRONT TRUNNION MOUNTING	
000007016104	PIN, DOWEL SOLID 6M X 32	8
700429192000	SEAL RING, 192 X 4	4
11.1100	SUPPORT, ENGINE REAR	
5242370202	BRACKET, ENGINE MTG	4

		TYPES											
FIG.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	A									
		12.8000A SUPPLIES/MAINTENANCE PRODUCTS											
		OIL, ENGINE LUBRICATING											
	12.8025												
	23520323	1 GAL. POWER GUARD GOLD SAE 40 SYNTHETIC (CLOSED CRANKCASE APPLICATIONS)	AR										
	23520324	5 GAL. POWER GUARD GOLD SAE 40 SYNTHETIC (CLOSED CRANKCASE APPLICATIONS)	AR										
		HAND CLEANERS											
	12.8070												
	23523182	HAND CLEANER FAST ORANGE SMOOTH LOTION 15OZ BOTTLE	AR										
	23523185	HAND CLEANER FAST ORANGE PUM- ICE LOTION 15OZ BOTTLE	AR										
	23523187	HAND CLEANER TROUNCE LOTION 15OZ BOTTLE	AR										
	23523183	HAND CLEANER FAST ORANGE SMOOTH LOTION 1GAL BOTTLE	AR										
	23523184	HAND CLEANER FAST ORANGE PUM- ICE LOTION 1GAL BOTTLE	AR										
	23523186	HAND CLEANER TROUNCE LOTION 1GAL BOTTLE	AR										
	23523223	BRACKET, WALL MOUNT 1GAL PUMP BOTTLE	AR										
		ADDITIVES, SUPPLEMENTAL COOLANT											
	12.8260												
	23522127	POWER COOL PLUS 6000 FOR MA- RINE/OTHER WATER ONLY SYSTEMS 1 GAL	AR										
	23522128	POWER COOL PLUS 6000 FOR MA- RINE/OTHER WATER ONLY SYSTEMS 5 GAL	AR										
		KIT, OIL ANALYSIS											
	12.8291												
	23520989	KIT, POWER TRAC LUBE OIL ANALY- SIS W/TOTAL BASE NUMBER	AR										
		PANEL, INSTRUMENTS											
	12.8300												
	23520758	GAGE PANEL, MECHANICAL 15' CAP- ILLARY 12/24V (7.4005)	AR										
	23520757	GAGE PANEL, MECHANICAL 31' CAP- ILLARY 12/24V (7.4005)	AR										
	23513680	GAGE PANEL, INSTRUMENT CON- TROL BLANK (7.4005)	AR										
	23519833	BRACKET, 1-HOLE MOUNTING BLACK (7.4005)	AR										
	23513217	BRACKET, 2-HOLE MOUNTING RUB- BER (7.4005)	AR										
	23519834	BRACKET, 2-HOLE MOUNTING BLACK (7.4005)	AR										
	23519835	BRACKET, 3-HOLE MOUNTING BLACK (7.4005)	AR										

		TYPES									
FIG.	PART NO.	12.8000A SUPPLIES/MAINTENANCE PRODUCTS	ASSY. SECT.	A							
		NAME AND DESCRIPTION									
	12.8310	GAGE, AMMETER									
	23519803	GAGE, AMMETER 60-0-60 BLACK (7.4015)	AR								
	23520723	GAGE, AMMETER 60-0-60 CHROME (7.4015)	AR								
	23519804	GAGE, AMMETER 100-0-100 BLACK (7.4015)	AR								
	23520756	GAGE, AMMETER 100-0-100 CHROME (7.4015)	AR								
	23520733	GAGE, AMMETER 150-0-150 W/EX- TECHROMERIAL SHUNT (7.4015)	AR								
	12.8315	GAGE, AIR PRESSURE									
	23519792	GAGE, AIR PRESSURE 150 PSI SINGLE CHROME (7.4024)	AR								
	23520732	GAGE, AIR PRESSURE 150 PSI SINGLE BLACK (7.4024)	AR								
	23519836	KIT, PRESSURE TUBING 6' X 1/8" COP- PER	AR								
	12.8320	GAGE, TACHOMETER									
	23519774	GAGE, TACH 3000RPM W/O HRMETER DDEC COMPATIBLE BLK (USE SEND- ER 23519819, 23519820 OR 23519821)	AR								
	23519775	GAGE, TACH 3000RPM W/HRMETER DDEC COMPATIBLE BLACK (USE SENDER 23519819, 23519820 OR 23519821)	AR								
	23519776	GAGE, TACH 3000RPM W/HRMETER DDEC COMPATIBLE CHROME (USE SENDER 23519819, 23519820 OR 23519821)	AR								
	23519777	GAGE, TACH 3500RPM 1:2 W/REV COUNTER MECH CHROME (7.4060)	AR								
	23520728	GAGE, TACH 3,500 RPM 1:2 RATIO ME- CHANICAL (7.4060)	AR								
	23519819	GAGE, SPEEDO/TACH MAGNETIC PICK UP 3.5"L. 3/4"-16	AR								
	23519820	SENDER, SPEEDO/TACH HALL EF- FECT 7/8"-18	AR								
	23519821	SENDER, SPEEDO/TACH GENERATOR 7/8"-18 (USE 6469745 OR 6469746) (7.4180)	AR								
	6469745	KEY, .152" SPEEDO/TACH GENERA- TOR	AR								
	6469746	KEY, .187" SPEEDO/TACH GENERA- TOR	AR								

		TYPES										
FIG.	PART NO.	12.8000A SUPPLIES/MAINTENANCE PRODUCTS	ASSY. SECT.	A								
		NAME AND DESCRIPTION										
	12.8330	GAGE, OIL PRESSURE – ENGINE										
	23519790	GAGE, OIL PRESSURE 100 PSI ME- CHANICAL BLACK (7.4070)		AR								
	23520731	GAGE, OIL PRESSURE 100 PSI ME- CHANICAL CHROME (7.4070)		AR								
	23519791	GAGE, OIL PRESSURE 150 PSI ME- CHANICAL BLACK (7.4070)		AR								
	23520721	GAGE, OIL PRESSURE 150 PSI ME- CHANICAL CHROME (7.4070)		AR								
	23520744	GAGE, OIL PRESSURE 80 PSI 12V0-90 OHM CHROME (USE SENDER 23511477,23512594,23512979,2351397 8)		AR								
	23519798	GAGE, OIL PRESSURE 100 PSI 12V10-180 OHM BLACK (USE SENDER 23519826) (7.4070)		AR								
	23519799	GAGE, OIL PRESSURE 150 PSI 12V10-180 OHM BLACK (USE SENDER 23519827) (7.4070)		AR								
	23511477	SENDER,OIL PRESS 80PSI, 1/8-27NPT, DUAL STATION (7.4070)		AR								
	23512594	SENDER,OIL PRESS 80PSI, 1/8-27NPT,STANDARD GROUND (7.4070)		AR								
	23512979	SENDER, OIL PRESSURE ELECT 80PSI FLTNG GRD DUAL (7.4070)		AR								
	23513978	SENDER,OIL PRESSURE 80PSI, 1/4"-18NPT,FLOATING GRD (7.4070)		AR								
	23519826	SENDER,OIL PRESSURE 100PSI, 1/8-27NPT STANDARD GRD. (7.4070)		AR								
	23519827	SENDER,OIL PRESSURE 150PSI, 1/8-27NPT, STANDARD GRD (7.4070)		AR								
	23519836	KIT, PRESSURE TUBING 6' X 1/8" COP- PER		AR								

			TYPES											
FIG.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	A										
		12.8000A SUPPLIES/MAINTENANCE PRODUCTS												
	12.8335	GAGE, OIL PRESSURE -- TRANSMISSION												
	23520746	GAGE, TRANS PRESSURE 400 PSI 12V CHROME (USE SENDER 23511617,23513980 OR 23513981)		AR										
	23519800	GAGE, TRANS PRESSURE 400 PSI 12V BLACK (USE SENDER 23511617,23513980 OR 23513981)		AR										
	23520730	GAGE, TRANS PRESSURE 400 PSI MECHANICAL CHROME (7.4071)		AR										
	23519794	GAGE, TRANS PRESSURE 400 PSI MECHANICAL BLACK (7.4071)		AR										
	23511617	SENDER, TRANS PRESSURE 400 PSI 1/8"-27 STD GRD (7.4071)		AR										
	23513980	SENDER, TRANS PRESSURE 400PSI 1/8"-27 FLOATING GRD (7.4071)		AR										
	23513981	SENDER, TRANS PRESSURE 400PSI 1/8"-27 DUAL STATION (7.4071)		AR										
	23519836	KIT, PRESSURE TUBING 6' X 1/8" COP- PER		AR										
	12.8340	GAGE, OIL TEMPERATURE												
	23520734	GAGE, OIL TEMP 340F 48" CAPILLARY MECH CHROME (7.4077)		AR										
	23520735	GAGE, OIL TEMP 340F 72" CAPILLARY MECH CHROME (7.4077)		AR										
	23519787	GAGE, OIL TEMP 340F 72" CAPILLARY MECHANICAL BLACK (7.4077)		AR										
	23519788	GAGE, OIL TEMP 340F 96" CAPILLARY MECHANICAL BLACK (7.4077)		AR										
	23519789	GAGE,OIL TEMP 340F 144" CAPILLARY MECHANICAL BLACK (7.4077)		AR										
	23520736	GAGE, OIL TEMP 340F 180" CAP- ILLARY MECH CHROME (7.4077)		AR										
	23520737	GAGE, OIL TEMP 340F 360" CAP- ILLARY MECH CHROME (7.4077)		AR										
	23519797	GAGE, OIL TEMP 300F, 12V (USE SENDER 23519824 OR 23519825) (7.4077)		AR										
	23519824	SENDER,OIL TEMP 300DEG1/4-18NPT, STANDARD GROUND (7.4077)		AR										
	23519825	SENDER,OIL TEMP, 300DEG1/2-14NPT, STANDARD GROUND (7.4077)		AR										
	23519830	ADAPTOR, 3/8"-18 NPT MECHANICAL GAGE		AR										
	23519829	ADAPTOR, 1/2"-14 NPT MECHANICAL GAGE		AR										

		TYPES									
FIG.	PART NO.	12.8000A SUPPLIES/MAINTENANCE PRODUCTS	ASSY. SECT.	A							
		NAME AND DESCRIPTION									
	12.8345	GAGE, WATER TEMPERATURE									
	23519779	GAGE, WATER TEMP 265F, 18" CAP- ILLARY (7.4080)		AR							
	23519780	GAGE, WATER TEMP 265F, 30" CAP- ILLARY (7.4080)		AR							
	23519781	GAGE, WATER TEMP 265F, 48" CAP- ILLARY (7.4080)		AR							
	23519782	GAGE, WATER TEMP 265F, 72" CAP- ILLARY (7.4080)		AR							
	23519783	GAGE, WATER TEMP 265F, 96" CAP- ILLARY (7.4080)		AR							
	23519784	GAGE, WATER TEMP 265F, 144" CAP- ILLARY (7.4080)		AR							
	23519785	GAGE, WATER TEMP 265F, 180" CAP- ILLARY (7.4080)		AR							
	23519786	GAGE, WATER TEMP 265F, 372" CAP- ILLARY (7.4080)		AR							
	23520722	GAGE, WATER TEMP 265F, 18" CAP- ILLARY MECHANICAL CHROME (7.4080)		AR							
	23520724	GAGE, WATER TEMP 265F, 30" CAP- ILLARY MECHANICAL CHROME (7.4080)		AR							
	23520725	GAGE, WATER TEMP 265F, 48" CAP- ILLARY MECHANICAL CHROME (7.4080)		AR							
	23520726	GAGE, WATER TEMP 265F, 72" CAP- ILLARY MECHANICAL CHROME (7.4080)		AR							
	23520727	GAGE, WATER TEMP 265F, 120" CAP- ILLARY MECHANICAL CHROME (7.4080)		AR							
	23520701	GAGE, WATER TEMP 265F, 180" CAP- ILLARY MECHANICAL CHROME (7.4080)		AR							
	23520738	GAGE, WATER TEMP 265F, 144" CAP- ILLARY MECHANICAL CHROME (7.4080)		AR							
	23520739	GAGE, WATER TEMP 265F, 372" CAP- ILLARY MECHANICAL CHROME (7.4080)		AR							
	23519795	GAGE, WATER TEMP 220F 12V US OHM RANGE (7.4080)		AR							
	23519796	GAGE, WATER TEMP 250F, 12VUSE SENDER 23511301,1303,3982,3983 OR 9823		AR							
	23520740	GAGE, WATER TEMP 250F, 12V (7.4080)		AR							
	23520742	GAGE, WATER TEMP 250F, 32V RE- SISTOR KIT (7.4080)		AR							
	23519823	SENDER,TEMP. 250DEG3/8"-18NPT STANDARD GROUND (7.4080)		AR							

		TYPES									
FIG.	PART NO.	12.8000A SUPPLIES/MAINTENANCE PRODUCTS	ASSY. SECT.	A							
		NAME AND DESCRIPTION									
	12.8345	GAGE, WATER TEMPERATURE (CONT.)									
	23511303	SENDER,TEMP 250DEG, 1/2"-14NPT STANDARD GROUND (7.4080) ,	AR								
	23513982	SENDER, TEMP 250 DEG 1/4"-18 FLOATING GROUND (7.4080)	AR								
	23511301	SENDER,TEMP 250DEG,3/8"-18NPT, DUAL STATION (7.4080)	AR								
	23513983	SENDER, TEMP 250 DEG 1/4"-18 DUAL STATION FLT GRD (7.4080)	AR								
	23519830	ADAPTOR, 3/8"-18 NPT MECHANICAL GAGE	AR								
	23519829	ADAPTOR, 1/2"-14 NPT MECHANICAL GAGE	AR								
	12.8350	GAGE, FUEL VOLUME									
	23519806	GAGE, FUEL 0-90 OHM CHROME (USE SENDER 23519816) (7.4086)	AR								
	23519809	GAGE, FUEL 0-90 OHM BLACK (USE SENDER 23519816) (7.4086)	AR								
	23519807	GAGE, FUEL 10-180 OHM CHROME (USE SENDER 23519817) (7.4086)	AR								
	23519810	GAGE, FUEL 10-180 OHM BLACK (USE SENDER 23519817) (7.4086)	AR								
	23519808	GAGE, FUEL 240-33 OHM CHROME (USE SENDER 23519818) (7.4086)	AR								
	23519811	GAGE, FUEL 240-33 OHM BLACK (USE SENDER 23519818) (7.4086)	AR								
	23519816	SENDER,FUEL 6-23" ADJUSTABLE 0-90 OHMS (7.4086)	AR								
	23519817	SENDER,FUEL 6-23" ADJUSTABLE 10-180 OHMS (7.4086)	AR								
	23519818	SENDER,FUEL 6-23" ADJUSTABLE 240-33 OHMS (7.4086)	AR								
	12.8360	LAMP, INSTRUMENTS PANEL									
	23519828	BULB,TYPE C 2W (7.4100)	AR								
	23519838	BULB,TYPE T-3 1/4, 2.7W WEDGE BASE (7.4100)	AR								
	23519840	BULB,TYPE T-3 1/4, 3.4W WEDGE BASE (7.4100)	AR								
	12.8365	SOCKET, LAMP INSTRUMENTS PANEL									
	23519839	SOCKET, BULB T-3 1/4 WEDGE BASE (7.4105)	AR								
	23519841	SOCKET, BULB TYPE C (7.4105)	AR								
	8920580	SOCKET, BULB TYPE A (7.4105)	AR								

		TYPES											
FIG.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	A									
		12.8000A SUPPLIES/MAINTENANCE PRODUCTS											
		GAGE, HOUR METER											
	12.8370												
	23519812	METER, HOUR QUARTZ 9-28V, NON ILLUMINATED CHROME (7.4118)	AR										
	23519813	METER, HOUR QUARTZ 9-28V, NON ILLUMINATED BLACK (7.4118)	AR										
	23519814	METER, HOUR QUARTZ 9-28V, WATERPROOF (7.4118)	AR										
	23519815	METER, HOUR QUARTZ MINIMETER 9-28V NON ILLUMINATED (7.4118)	AR										
		GAGE, TURBO BOOST											
	12.8375												
	23519832	GAGE, TURBO BOOST 0-30 PSI (7.4160)	AR										
	23519842	GAGE, TURBO BOOST 0-30 PSI BLACK (7.4160)	AR										
	23519836	KIT, PRESSURE TUBING 6' X 1/8" COPPER	AR										
		GAGE, VOLTMETER											
	12.8380												
	23519801	GAGE, VOLTMETER 8-16V CHROME (7.4170)	AR										
	23519802	GAGE, VOLTMETER 8-16V BLACK (7.4170)	AR										
		GAGE, SPEEDOMETER											
	12.8385												
	23519773	GAGE, SPEEDO 0-85 MPH PROGRAM-ABLE W/TRIP (7.4180)	AR										
	23519819	GAGE, SPEEDO/TACH MAGNETIC PICK UP 3.5"L. 3/4"-16 (7.4180)	AR										
	23519820	SENDER, SPEEDO/TACH HALL EFFECT 7/8"-18 (7.4180)	AR										
	23519821	SENDER, SPEEDO/TACH GENERATOR 7/8"-18 (7.4180)	AR										
	23520374	SENDER, SPEEDO/TACH GENERATOR 7/8"-18 ODO TERM (7.4180)	AR										
	6469745	KEY, .152" SPEEDO/TACH GENERATOR (FOR USE WITH 23519821 OR 23520374)	AR										
	6469746	KEY, .187" SPEEDO/TACH GENERATOR (FOR USE WITH 23519821 OR 23520374)	AR										

DETROIT DIESEL

Custom Parts Catalog

ENGINE DESCRIPTION

SERIES NUMBER: 4000

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.

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
- 01.5B FLYWHEEL HOUSING ADAPTOR
- 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

- 03.1A AIR CLEANER AND/OR ADAPTOR
- 03.3C AIR INTAKE MANIFOLD
- 03.5A TURBOCHARGER, INTERCOOLER AND AFTERCOOLER
- 03.7 INTERCOOLER/AFTERCOOLER

04 LUBRICATING SYSTEM

- 04.1A OIL PUMP
- 04.1B OIL DISTRIBUTION SYSTEM
- 04.2A OIL FILTER
- 04.4A OIL COOLER AND MARINE GEAR LINES
- 04.6A DIPSTICK
- 04.7A OIL PAN
- 04.8A VENTILATING SYSTEM

05 COOLING SYSTEM

- 05.1 FRESH WATER PUMP
- 05.2A WATER OUTLET MANIFOLD AND/OR ELBOW
- 05.2B THERMOSTAT
- 05.3B WATER CONNECTIONS

06 EXHAUST SYSTEM

- 06.1A EXHAUST MANIFOLD AND/OR CONNECTIONS

07 ELECTRICAL INSTRUMENTS

- 07.1A BATTERY, CHARGING GENERATOR
- 07.3A STARTING MOTOR

11 ENGINE MOUNTING

- 11.1A ENGINE MOUNTING AND BASE

PART NAME **GROUP NO.**

A

ADAPTOR, FLYWHEEL HOUSING	01.5B130
ARM ASSY., EXHAUST VALVE ROCKER	01.8060
ARM ASSY., INTAKE VALVE ROCKER	01.8075
ARM ASSY., SWING EXHAUST VALVE ROCKER	01.8253
ARM ASSY., SWING INTAKE VALVE ROCKER	01.8255
ADAPTOR, FUEL PUMP DRIVE	02.2260
AIR CLEANER ASSY.	03.1A001
AIR INTAKE MANIFOLD	03.3C801
ADAPTOR, TURBOCHARGER EXHAUST OUTLET	03.5A324
ADAPTOR, HOUSING WATER PUMP	03.7010
ADAPTOR, OIL FILTER ASSY.	04.2A352
ADAPTOR, EXHAUST MANIFOLD	06.1A003
ADAPTOR, EXHAUST PIPE	06.1A190

B

BLOCK, CYLINDER	01.1001
BOLT, CYLINDER HEAD	01.2030
BRACKET, ENGINE LIFTER-FRONT	01.2A070
BRACKET, ENGINE LIFTER - REAR	01.2A080
BUSHING, CRANKSHAFT REAR SUPPORT	01.5A023
BUSHING, CONNECTING ROD PISTON	01.6040
BEARING, PISTON PIN.	01.6142
BUSHING, EXHAUST VALVE ROCKER ARM	01.8100
BUSHING, INTAKE VALVE ROCKER	01.8105
BRACKET, ROCKER SHAFT	01.8170
BEARING, CAMSHAFT	01.7040
BEARING, IDLER GEAR	01.7225
BRACKET, WIRING HARNESS	02.1B745
BRIDGE, EXHAUST VALVE	01.8343
BOLT, ROCKER COVER	01.8A460
BRACKET, ELECTRONIC CONTROL MODULE	02.1B507
BRACKET, BOAT BUILDER INTERFACE MODULE	02.1B514
BRACKET, FUEL FILTER MOUNTING	02.3A530
BLOCK, FUEL SYSTEM JUNCTION	02.5A250
BRACKET, FUEL SYSTEM JUNCTION BLOCK	02.5A252
BOLT, AIR CLEANER ASSY.	03.1A070
BRACKET, AIR CLEANER MOUNTING	03.1A230

PART NAME **GROUP NO.**

BRACKET, TURBOCHARGER EXHAUST OUTLET ADAPTOR	03.5A330
BRACKET, TURBOCHARGER AIR OUTLET TUBE	03.5A415
BRACKET, INTERCOOLER MOUNTING	03.7003
BRACKET, TUBE SUPPORT	03.7250
BRACKET, OIL FILTER MOUNTING	04.2A440
BASE, BREATHER	04.8A048
BRACKET, BREATHER/COLLECTOR MOUNTING	04.8A056
BRACKET, BREATHER EXTENSION PIPE	04.8A183
BREATHER ASSY.	04.8A045
BODY, BREATHER OR SEPARATOR	04.8A050
BASE, ENGINE MOUNTING	11.1A001
BEARING, GENERATOR DRIVE	07.1A535
BELT, GENERATOR DRIVE	07.1A575
BRACKET, GENERATOR DRIVE BELT AND PULLEY GUARD	07.1A587
BRACKET, GENERATOR MOUNTING	07.1A595
BRACKET, ENGINE SUPPORT	11.1A075

C

COVER, CYLINDER BLOCK HAND HOLE	01.1040
COVER, CYLINDER BLOCK VALLEY	01.1055
CRANKSHAFT ASSY.	01.3001
COVER, ENGINE FRONT ACCESSORY DRIVE	01.3A191
COUPLING, ENGINE DRIVE SHAFT FLEXIBLE	01.4A060
COVER, STARTING MOTOR HOLE	01.5A070
COVER, FLYWHEEL HOUSING INSPECTION HOLE	01.5A080
COVER, FLYWHEEL HOUSING	01.5A085
COVER, FLYWHEEL HOUSING WATER HOLE	01.5A119
CONNECTING ROD ASSY.	01.6001
CYLINDER INSTALLATION KIT	01.6183
CAMSHAFT ASSY.	01.7001
CAP, VALVE SPRING	01.8350
COVER ASSY., ROCKER	01.8A450
CLAMP, INJECTOR	02.1A270
CABLE	02.1B910
COUPLING, FUEL PUMP DRIVE	02.2230
COVER, FUEL FILTER	02.3A390
CONNECTOR METRI/WEATHER-PACK PED	02.1B800
CONNECTOR, WATER TUBING	03.7085
CLAMP, TUBE	03.7130

PART NAME	GROUP NO.
CONNECTOR, FUEL HIGH PRESSURE LINES	02.5A076
CLIP, FUEL PUMP TO FILTER HOSE	02.5A120
CLAMP, AIR INLET PIPE HOSE	03.1A280
CONNECTIONS, INTERCOOLER/CHARGE AIR COOLER WATER	03.5A434
CLIP, TURBOCHARGER OIL SUPPLY TUBE	03.5A502
CLIP, TURBOCHARGER OIL RETURN TUBE	03.5A507
CLIP, TURBOCHARGER WATER LINE	03.5A527
CONNECTIONS, WATER PUMP	03.5A529
COVER, OIL FILTER	04.2A290
COVER, OIL COOLER HOUSING	04.4A060
CORE, OIL COOLER ENGINE	04.4A001
CONNECTION, OIL COOLER WATER CROSSOVER	04.4A218
CLIP, DIPSTICK	04.6A040
CLIP, OIL PAN DRAIN TUBE	04.7A101
CONNECTOR, BREATHER TUBE	04.8A021
CLAMP, BREATHER TUBE	04.8A039
COVER, OIL PAN	04.7A120
CLIP, BREATHER TUBE	04.8A040
CLAMP, BREATHER EXTENSION PIPE HOSE	04.8A180
COVER, BREATHER HOLE IN BLOCK	04.8A195
COVER, THERMOSTAT HOUSING	05.2B120
CYLINDER, SEQUENTIAL ACTUATOR	06.1A008
COVER, EXHAUST MANIFOLD	06.1A015
CARRIER HOUSING, EXHAUST MANIFOLD	06.1A016
CONNECTION, HEAT EXCHANGER INLET	05.2B125
CONNECTION, WATER PUMP TO THERMOSTAT HOUSING	05.3B345
CONNECTION, OIL COOLER WATER INLET	05.3B350
CLAMP, EXHAUST MANIFOLD WATER OUTLET TUBE HOSE	06.1A149
CUSHION, ENGINE MOUNTING BASE ISOLATION PAD	11.1A010
COUPLING ASSY., GENERATOR DRIVE	07.1A555
COVER, STARTING MOTOR HOLE	07.3A738
COVER, ENGINE MOUNTING BASE ISOLATION PAD	11.1A030

D

DAMPER, VIBRATION	01.3B210
DISC, FLYWHEEL FLEXIBLE COUPLING	01.4A075
DIPSTICK	04.6A001
DRIVE ASSY., GENERATOR	07.1A507

PART NAME	GROUP NO.
E	
ELEMENT, FUEL FILTER	02.3A320
ELBOW, WATER INLET & OUTLET INTERCOOLER/AIR COOLER	03.7305
ELBOW, TURBOCHARGER AIR INLET	03.1A259
ELEMENT, OIL FILTER	04.2A250
EXTENSION, BREATHER TUBE	04.8A010
ELBOW, BREATHER	04.8A013
ELBOW, THERMOSTAT HOUSING COVER OUTLET	05.2B122
ELBOW, WATER PUMP OUTLET	05.3B336
EXPANDER, EXHAUST MANIFOLD	06.1A006

F

FLYWHEEL ASSY.	01.4A001
FLANGE, CAMSHAFT DRIVE	01.7007
FOLLOWER ASSY., CAM	01.8260
FILTER ASSY., FUEL	02.3A310
FILTER ASSY., SPIN ON FUEL	02.3A316
FITTING, AUXILIARY PUMP AND TANK	02.5A004
FILTER ASSY., OIL	04.2A240
FLANGE, EXHAUST MANIFOLD WATER OUTLET	06.1A140

G

GASKET KIT, ENGINE OVERHAUL	01.1002
GASKET, CYLINDER BLOCK HAND HOLE COVER	01.1050
GASKET, CYLINDER BLOCK VALLEY COVER	01.1057
GASKET KIT, CYLINDER HEAD OVERHAUL	01.2002
GASKET, CYLINDER HEAD COMPRESSION	01.2010
GEAR, CRANKSHAFT TIMING	01.3145
GASKET, CRANKSHAFT FRONT COVER	01.3A170
GASKET, ENGINE FRONT ACCESSORY DRIVE	01.3A192
GEAR, FLYWHEEL RING	01.4A010
GASKET, FLYWHEEL HOUSING	01.5A010
GASKET, STARTING MOTOR HOLE COVER	01.5A075
GASKET, FLYWHEEL HOUSING COVER	01.5A095
GUIDE, FLYWHEEL HOUSING TIMING PIN	01.5A106
GASKET, FLYWHEEL HOUSING WATER HOLE COVER	01.5A120
GEAR, CAMSHAFT AND BALANCE SHAFT	01.7200
GEAR ASSY., IDLER	01.7220

PART NAME	GROUP NO.
GUIDE, EXHAUST VALVE	01.8320
GUIDE, EXHAUST VALVE BRIDGE	01.8345
GASKET, ROCKER COVER	01.8A455
GASKET, FUEL PUMP TO ENGINE OR DRIVE ASSEMBLY	02.2007
GASKET, OIL PUMP TO CYLINDER BLOCK	04.1A007
GASKET, AIR INTAKE MANIFOLD	03.3C803
GASKET, TURBOCHARGER EXHAUST INLET CONNECTION	03.5A307
GASKET, TURBOCHARGER EXHAUST OUTLET	03.5A325
GASKET, TURBOCHARGER TO AIR INLET HOUSING ADAPTOR	03.5A423
GASKET, OIL COOLER CORE-INNER	04.4A030
GASKET, OIL COOLER HOUSING	04.4A055
GASKET, FRESH WATER PUMP	05.1010
GASKET, WATER OUTLET MANIFOLD	05.2A010
GASKET, OIL FILTER ELEMENT	04.2A260
GASKET, OIL COOLER CORE-OUTER	04.4A040
GUIDE, DIPSTICK	04.6A020
GASKET, OIL PAN DRAIN PLUG	04.7A090
GASKET, DIPSTICK ADAPTOR PLATE	04.6A061
GASKET, OIL PAN TO BLOCK	04.7A030
GASKET, OIL PAN COVER	04.7A130
GASKET, BREATHER TUBE	04.8A020
GASKET, BREATHER HOLE COVER	04.8A196
GASKET, THERMOSTAT HOUSING	05.2B110
GASKET, WATER PUMP INLET AND OUTLET ELBOW	05.3B337
GASKET, OIL COOLER WATER INLET CONNECTION	05.3B360
GASKET, HEAT EXCHANGER WATER MANIFOLD	05.2B128
GASKET, EXHAUST MANIFOLD	06.1A010
GASKET, EXHAUST MANIFOLD ADAPTOR	06.1A012
GENERATOR ASSY.	07.1A001
GASKET, GENERATOR DRIVE	07.1A508
GUARD, GENERATOR DRIVE BELT AND PULLEY	07.1A585
GASKET, STARTING MOTOR	07.3A004
GEAR, GENERATOR DRIVE	07.1A532

H

HEAD ASSY., CYLINDER	01.2001
HOUSING ASSY., GEAR CASE	01.3A156
HUB, VIBRATION DAMPER	01.3B230
HOUSING ASSY., FLYWHEEL	01.5A001

PART NAME	GROUP NO.
HUB, IDLER GEAR	01.7250
HARNESS, ECM BOAT BUILDER INTERFACE MODULE	02.1B690
HARNESS, ENGINE SENSORS TO ECM	02.1B704
HARNESS ASSY., INJECTOR SOLENOID WIRING	02.1B705
HARNESS, ELECTRONIC DISTRIBUTOR UNIT TO INJECTOR	02.1B700
HARNESS, INTERFACE	02.1B703
HARNESS, ENGINE SENSORS TO DISCONNECT	02.1B720
HARNESS, POWER INTERFACE	02.1B740
HOSE, EGR SENSOR	02.1B790
HOSE, JUNCTION BLOCK TO FUEL BLOCK ASSY.	02.5A251
HOSE, AIR INLET PIPE	03.1A270
HOUSING, TURBOCHARGER TURBINE	03.5A003
HOUSING ASSY., TURBOCHARGER INTERMEDIATE	03.5A018
HOUSING, TURBOCHARGER COMPRESSOR	03.5A022
HOSE, TURBOCHARGER AIR OUTLET CONNECTION	03.5A420
HOUSING, INTERCOOLER/AIR COOLER	03.7300
HOUSING WATER DISTRIBUTION ASM	05.2B001
HOUSING, OIL COOLER-ENGINE	04.4A050
HOSE, OIL DRAIN	04.8A187
HOSE, BREATHER EXTENSION	04.8A175
HOUSING, THERMOSTAT	05.2B090
HOUSING, WATER DISTRIBUTION	05.2B155
HUB, FLANGE MOUNTED ALTERNATOR DRIVE	07.1A511

I

INSERT, CYLINDER LINER	01.6187
INJECTOR ASSY.	02.1A001
INSTRUMENTS, P.S.G.	02.1B880
INDICATOR/SENSOR, AIR CLEANER RESTRICTION	03.1A002
INDICATOR, AIR CLEANER RESTRICTION	03.1A007
INSULATION BLANKET TURBOCHARGER	03.5A535
INTERCOOLER ASSY./ CHARGE AIR COOLER	03.7001
INSULATION COVER, EXHAUST MANIFOLD	06.1A172

K

KIT, CYLINDER LINER AND SEALS	01.6181
KIT, COOLANT LEVEL SENSOR	02.1B670

PART NAME	GROUP NO.
KIT, TOTAL OPERATING PROTECTION SYSTEM	02.1B672
KIT CRANKCASE BREATHER RETROFIT	04.8A049

L

LINES, TORSIONAL ISOLATOR OIL	01.4A100
LINER, CYLINDER	01.6180
LOCK, EXHAUST VALVE SPRING	01.8370
LOCKRING, GENERATOR DRIVE BEARING	07.1A545

M

MODULE ASSY., ELECTRONIC CONTROL (ECM)	02.1B501
MODULE, INTERFACE	02.1B512
MANIFOLD, WATER OUTLET	05.2A001
MANIFOLD, EXHAUST	06.1A001
MOTOR ASSY., STARTING	07.3A001

P

PULLEY, CRANKSHAFT	01.3C280
PLATE, FLYWHEEL FLEXIBLE COUPLING	01.4A085
PISTON KIT	01.6110
PIN, PISTON	01.6140
PLATE ASSY., ELECTRONIC DISTRIBUTOR UNIT COLD	02.1B520
PUMP ASSY., FUEL	02.2001
PUMP ASSY., FUEL HIGH PRESSURE	02.2006
PLATE, OIL PUMP MOUNTING	04.1A006
PRIMER PUMP, FUEL	02.5A490
PIPE, AIR CLEANER TO INLET HOUSING	03.1A260
PUMP ASSY., OIL	04.1A001
PIPE, OIL PUMP INLET	04.1B510
PLATE, OIL COOLER CORE	04.4A010
PUMP ASSY., FRESH WATER	05.1001
PAN, OIL	04.7A001
PAN, OIL UPPER	04.7A010
PLUG, OIL PAN DRAIN	04.7A080
PLATE, DIPSTICK ADAPTOR	04.6A060
PAN, OIL LOWER	04.7A020
PIPE ASSY, BREATHER	04.8A001
PIPE, BREATHER EXTENSION	04.8A170
PULLEY, GENERATOR	07.1A500
PLATE, STARTING MOTOR FIELD COIL TERMINAL STUD	07.3A045

R

PART NAME	GROUP NO.
RING, INJECTOR HOLE TUBE SEAL	01.2046
RETAINER, CRANKSHAFT PULLEY	01.3C290
RING, CROSSHEAD PISTON SEAL	01.6106
RING SET, PISTON	01.6115
RING, PISTON COMPRESSION	01.6120
RING, PISTON OIL CONTROL	01.6130
RETAINER, PISTON PIN	01.6150
ROD, PUSH	01.8180
ROTATOR, VALVE	01.8365
RING, INJECTOR SEAL	02.1A040
RETAINER, TURBOCHARGER EXHAUST INLET FLANGE	03.5A318
RING, ENGINE FRONT TRUNNION MOUNTING SUPPORT CUSHION	11.1A094

S

SEAL, CRANKSHAFT OIL-FRONT	01.3040
SEAL, CRANKSHAFT OIL-REAR	01.3060
SHELL, CRANKSHAFT MAIN BEARING	01.3090
SEAL, CRANKSHAFT OIL FRONT	01.3A166
SPACER, VIBRATION DAMPER	01.3B275
SEAL, FLYWHEEL OIL	01.4A008
SEAL, CRANKSHAFT OIL	01.5A004
SHELL, CONNECTING ROD BEARING	01.6100
SCREW, ROCKER ARM ADJUSTING	01.8135
SHAFT ASSY., ROCKER	01.8160
SEAL, CYLINDER LINER	01.6190
SENSOR, AIR TEMPERATURE	02.1B647
SENSOR, EXHAUST TEMPERATURE	02.1B649
SENSOR, FUEL MONITOR	02.1B667
SENSOR, CRANKCASE PRESSURE	02.1B668
SENSOR, COOLANT PRESSURE	02.1B675
SPRING, EXHAUST VALVE	01.8340
SHIELD, WATER ECM	02.1B523
SENSOR, UNF, SAE, PS TEMPERATURE	02.1B550
SENSOR, OIL OR FUEL PRESSURE	02.1B600
SENSOR, MAG. IDLER	02.1B610
SENSOR, MAG. CRANKSHAFT	02.1B620
SENSOR, OIL, FUEL OR COOLANT TEMPERATURE	02.1B630
SENSOR, TURBO SPEED	02.1B646
SENSOR/KIT, AIR PRESSURE/TURBO BOOST	02.1B650
SENSOR, COOLANT LEVEL	02.1B665
SENSOR, EGR TEMPERATURE	02.1B787
SEPARATOR, FUEL WATER	02.3A590

PART NAME	GROUP NO.
STRAP, AIR CLEANER MOUNTING	03.1A220
SENSOR, AIR TEMPERATURE	03.5A541
SCREEN, OIL PUMP INLET	04.1B530
SEAL, WATER OUTLET MANIFOLD	05.2A043
SHELL, BREATHER	04.8A055
SEAL, THERMOSTAT	05.2B060
STUD, EXHAUST MANIFOLD OUTLET	06.1A050
STUD, EXHAUST MANIFOLD TO HEAD	06.1A020
STUD, EXHAUST MANIFOLD TO TURBOCHARGER	06.1A022
SHIELD, GENERATOR	07.1A005
SEAL, GENERATOR DRIVE OIL	07.1A515
SHAFT, GENERATOR DRIVE	07.1A530
SPACER, GENERATOR DRIVE PULLEY	07.1A540
SHAFT BEARING	
STRAP, GENERATOR ADJUSTING	07.1A580
SUPPORT, GENERATOR BRACKET	07.1A596
SHIELD UNIT, GENERATOR REGULATOR AND TERMINAL	07.1A775
SWITCH, STARTING MOTOR SOLENOID	07.3A255
SUPPORT, ENGINE FRONT	11.1A070
SUPPORT, ENGINE FRONT TRUNNION MOUNTING	11.1A090
SPACER, ENGINE RUBBER MOUNTING	11.1A140
INSULATING	
SUPPORT/BRACKET, ENGINE REAR	11.1A100
SPACER, ENGINE REAR SUPPORT	11.1A105

T

TUBE, INJECTOR HOLE	01.2045
TORSIONAL ISOLATOR	01.4A090
TRANSDUCER, EGR PRESSURE SENSOR	02.1B785
TUBE, WATER PUMP OUTLET	03.7060
TUBE, INTERCOOLER WATER INLET	03.7070
TUBE, AIR INLET & OUTLET INTERCOOLER	03.7350
TUBE, FUEL PUMP INLET	02.5A065
TUBE ASSY., FUEL HIGH PRESSURE PUMP TO RAIL	02.5A075
TUBE, FUEL PUMP TO FILTER	02.5A100
TUBE, FUEL PUMP OUTLET TO FUEL COOLER	02.5A112
TUBE, FUEL FILTER TO JUNCTION BLOCK	02.5A148
TUBE, FILTER OUTLET	02.5A151
TUBE, FUEL DRAIN CROSSOVER	02.5A205
TUBE, FUEL DRAIN	02.5A210
TUBE, WATER DRAIN	02.5A219

PART NAME	GROUP NO.
TUBE ASSY., FUEL RETURN MANIFOLD	02.5A225
TURBOCHARGER	03.5A001
TUBE, TURBOCHARGER AIR OUTLET CONNECTION	03.5A414
TUBE, TURBOCHARGER OIL SUPPLY	03.5A500
TUBE, TURBOCHARGER OIL RETURN	03.5A505
TUBE, TURBOCHARGER WATER RETURN	03.5A525
TUBE, WATER PUMP INLET	03.7050
TUBE ASSY., WATER INLET/OUTLET	03.7072
TUBE, INTERCOOLER WATER OUTLET	03.7080
TUBE, OIL DRAIN	04.1B642
TUBE ASSY., WATER MANIFOLD VENT	05.2A041
TUBE, WATER OUTLET MANIFOLD	05.2A045
TUBE, JUNCTION BLOCK INLET	04.1B581
TUBE, OIL PAN DRAIN	04.7A100
THERMOSTAT ASSY.	05.2B050
TUBE, CHARGE AIR COOLING RETURN	05.2B091
TUBE ASSY., WATER PUMP INLET	05.2B070
TUBE, WATER PUMP INLET	05.3B329
TUBE, EXHAUST CROSSOVER	06.1A180
TENSIONER ASSY., GENERATOR DRIVE	07.1A900
TRUNNION, ENGINE FRONT	11.1A088

V

VALVE, EXHAUST	01.8310
VALVE, INTAKE	01.8315
VALVE, FUEL SUPPLY CHECK	02.5A006
VALVE, FUEL DRAIN CHECK	02.5A209
VENT HOSE, WASTEGATE TO AIR INTAKE	02.5A540
VALVE, SEQUENTIAL ACTUATOR	03.3C820
VALVE, OIL PUMP RELIEF	04.1A250
VALVE, OIL PRESSURE RELIEF	04.1B582
VALVE, SEQUENTIAL ACTUATOR	06.1A007

W

WHEEL, SPEED SENSOR PULSE	01.7133
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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
- 01.5B FLYWHEEL HOUSING ADAPTOR
- 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

- 03.1A AIR CLEANER AND/OR ADAPTOR
- 03.3C AIR INTAKE MANIFOLD
- 03.5A TURBOCHARGER, INTERCOOLER AND AFTERCOOLER
- 03.7 INTERCOOLER/AFTERCOOLER

04 LUBRICATING SYSTEM

- 04.1A OIL PUMP
- 04.1B OIL DISTRIBUTION SYSTEM
- 04.2A OIL FILTER
- 04.4A OIL COOLER AND MARINE GEAR LINES
- 04.6A DIPSTICK
- 04.7A OIL PAN
- 04.8A VENTILATING SYSTEM

05 COOLING SYSTEM

- 05.1 FRESH WATER PUMP
- 05.2A WATER OUTLET MANIFOLD AND/OR ELBOW
- 05.2B THERMOSTAT
- 05.3B WATER CONNECTIONS

06 EXHAUST SYSTEM

- 06.1A EXHAUST MANIFOLD 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 4000

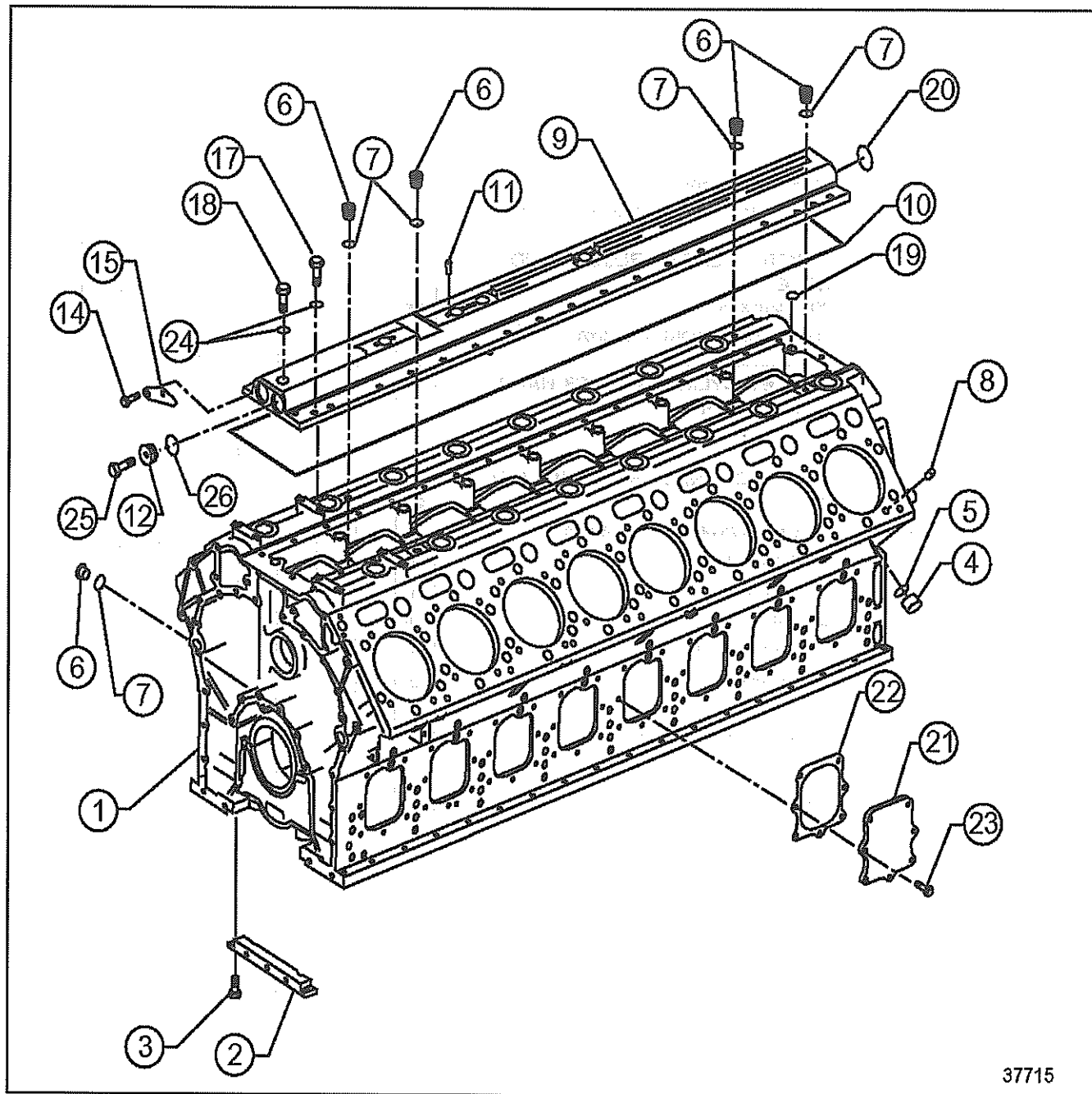


FIG 1 of 01.1

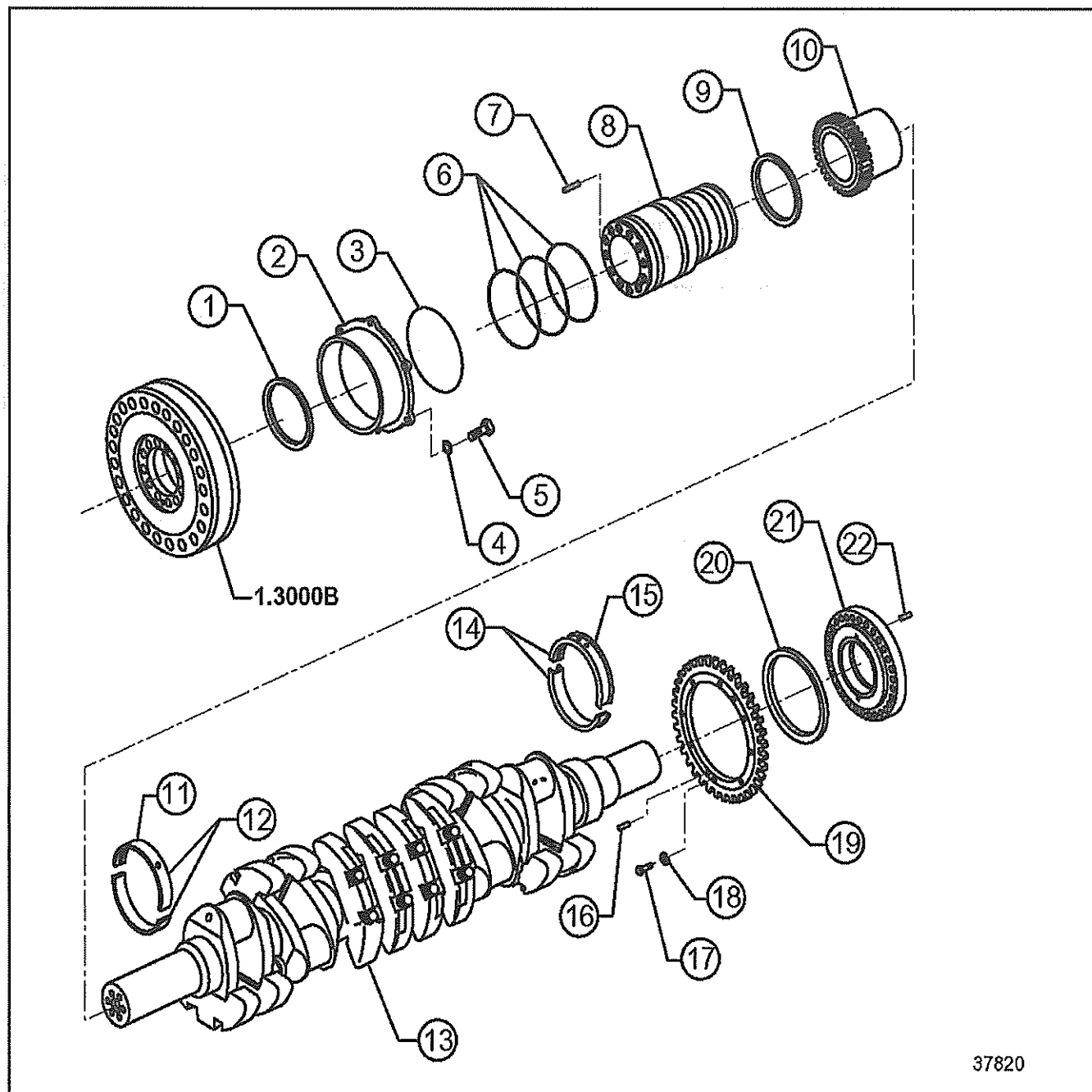
01.1 CYLINDER BLOCK					TYPES									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.											
	01.1001	BLOCK, CYLINDER		6										
1:3	000912008115	BOLT, M8X16 8.8		9										
1:2	5240110440	FILLER PIECE STRIP		0										
1:1	5260101605	BLOCK ASM CYLINDER W/LINERS 12V4000		2										
	01.1040	COVER, CYLINDER BLOCK HAND HOLE		1										
1:23	000933010035	BOLT, M10 X 25		1										
1:21	5240110732	COVER, ACCESS PORT STD S4000		1										
	01.1050	GASKET, CYLINDER BLOCK HAND HOLE COVER												
1:22	5240111380	GASKET, ACCESS COVER		35										
	01.1055	COVER, CYLINDER BLOCK VALLEY		5										
1:24	000125010524	WASHER A10.5												
	000835010056	STUD M10 X 25 DBL 8451.21 16V4000		28										
1:6	000908014001	PLUG, M14 X 1.5		8										
1:14	000933010089	BOLT M10 X 20		1										
1:17	000933010093	BOLT M10 X 35		1										
	000933010198	BOLT, M10 X 16 8.8		28										
	0049976736	VALVE, DRAIN		1										
	007349010002	WASHER, 10.5 STL		2										
1:7	007603014102	WASHER, A14 X 18 COPPER		1										
	5249950059	STRAP 74.5 X 25		1										
	5260101114	COVER, VALLEY		1										
1:19	700429018005	SEAL RING 18 X 4		1										
1:26	700429042000	SEAL RING, 42 X 5		8										
1:20	700429055001	SEAL RING, 55 X 5		1										
1:12	735084050000	PLUG		1										
	01.1057	GASKET, CYLINDER BLOCK VALLEY COVER												
1:10	5269970345	SEAL STRIP 1057 X 5		1										

01.2 CYLINDER HEAD				TYPES									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	5	2	3							
01.2001		HEAD ASSY., CYLINDER											
	5240105720	HEAD ASSY., CYLINDER (COMPLETE)	12										
01.2010		GASKET, CYLINDER HEAD											
		COMPRESSION											
	5240160319	SEAL RING 194.5 X 213	12										
	5240161580	GASKET, CYLINDER HEAD	12										
01.2030		BOLT, CYLINDER HEAD											
	5240110062	WASHER THRUST	72										
	5240160069	BOLT M22 X 335	8										
	5249900701	BOLT CYL HEAD M22 2.00 X 308	64										

01.2A ENGINE LIFTER BRACKET				TYPES										
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	3										
	01.2A070	BRACKET, ENGINE LIFTER-FRONT	4	5										
	5240110062	WASHER THRUST	8	4										
	5240160069	BOLT M22 X 335	8											
	5242230341	BRACKET, LIFTER	4											

DETROIT DIESEL

SERIES 4000



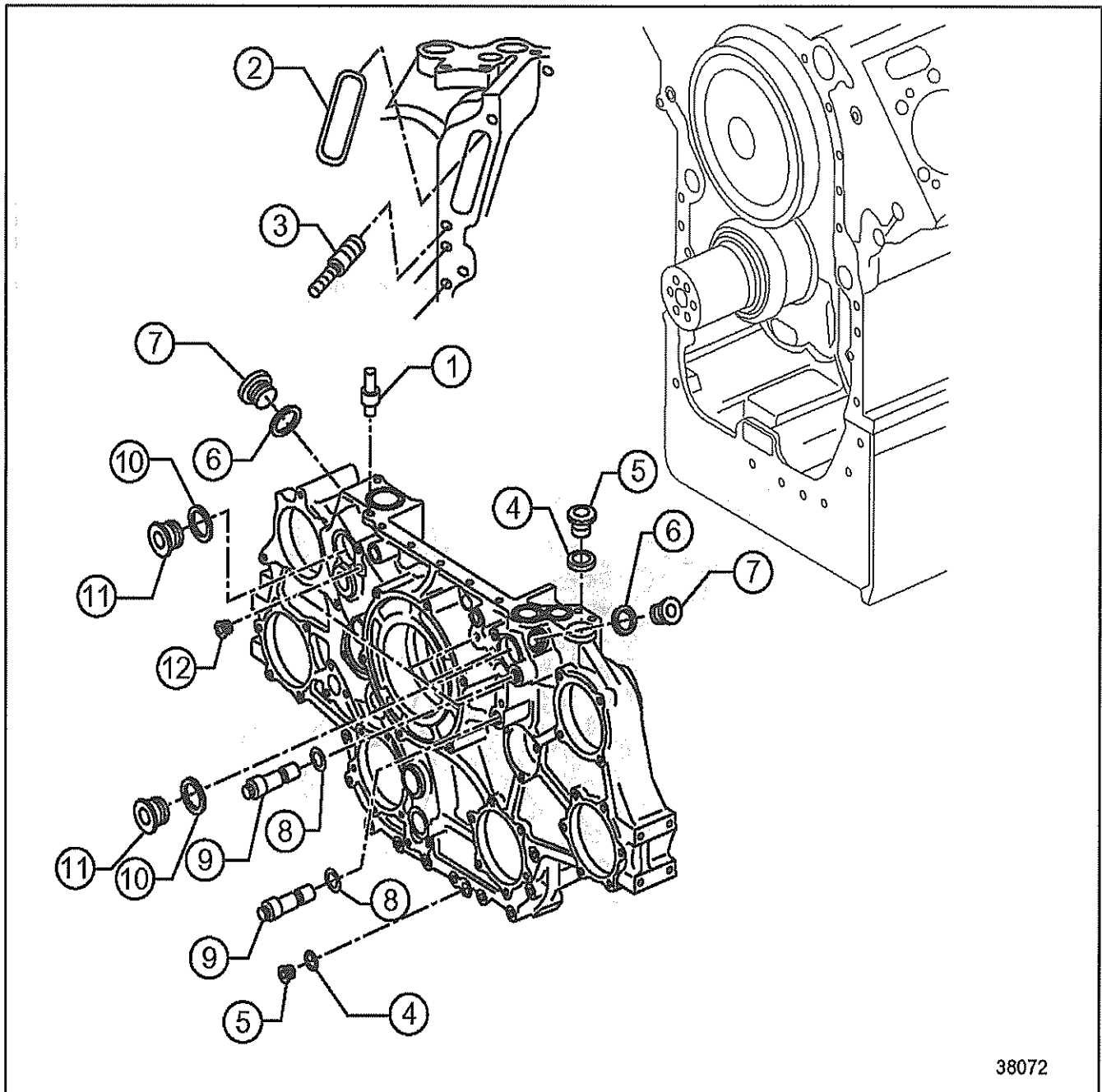
37820

FIG 1 of 01.3

				TYPES											
		01.3 CRANKSHAFT, OIL SEALS AND STABILIZERS													
FIG	PART NO.	NAME AND DESCRIPTION	ASSY.												
REF.			QTY.												
	01.3001	CRANKSHAFT ASSY.		1	2										
1:13	5260301101			6	1										
				2	8										
	01.3040	SEAL, CRANKSHAFT OIL-FRONT													
1:8	5240300094	FLANGE ASM AUX DRIVE PTO END S4000		1											
	5240350124	FLANGE, DRIVE (FRONT); USE: 5240300094		NS											
1:9	700429150000	SEAL RING, 150 X 4(INNER FLANGE)		1											
1:6	700429180000	SEAL RING, 180 X 4(VIBRATION DAMPER)		3											
1:7	735073008000	PLUG SEAL		2											
	01.3090	SHELL, CRANKSHAFT MAIN BEARING													
		<i>A SHELL SET CONSISTS OF ONE UPPER AND ONE LOWER BEARING SHELL.</i>													
1:14	23525632	SHELL SET, STD UPPER & LOWER (THRUST); USE: 23540755		NS											
1:12	23533882			6											
	23540755	SHELL SET, STD UPR & LOWER (THRUST)		1											

DETROIT DIESEL

SERIES 4000

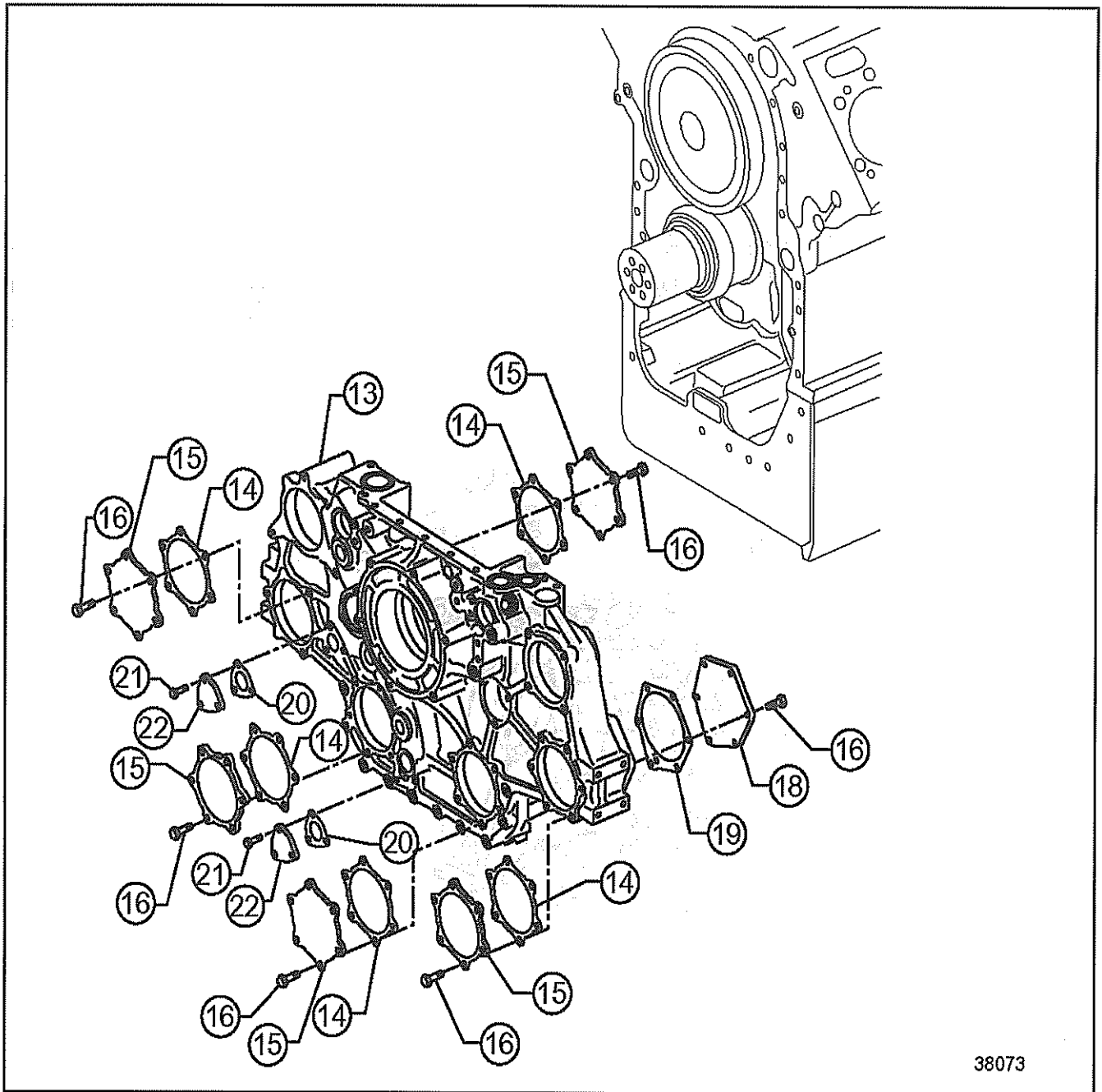


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FIG 1 of 01.3A

DETROIT DIESEL

SERIES 4000

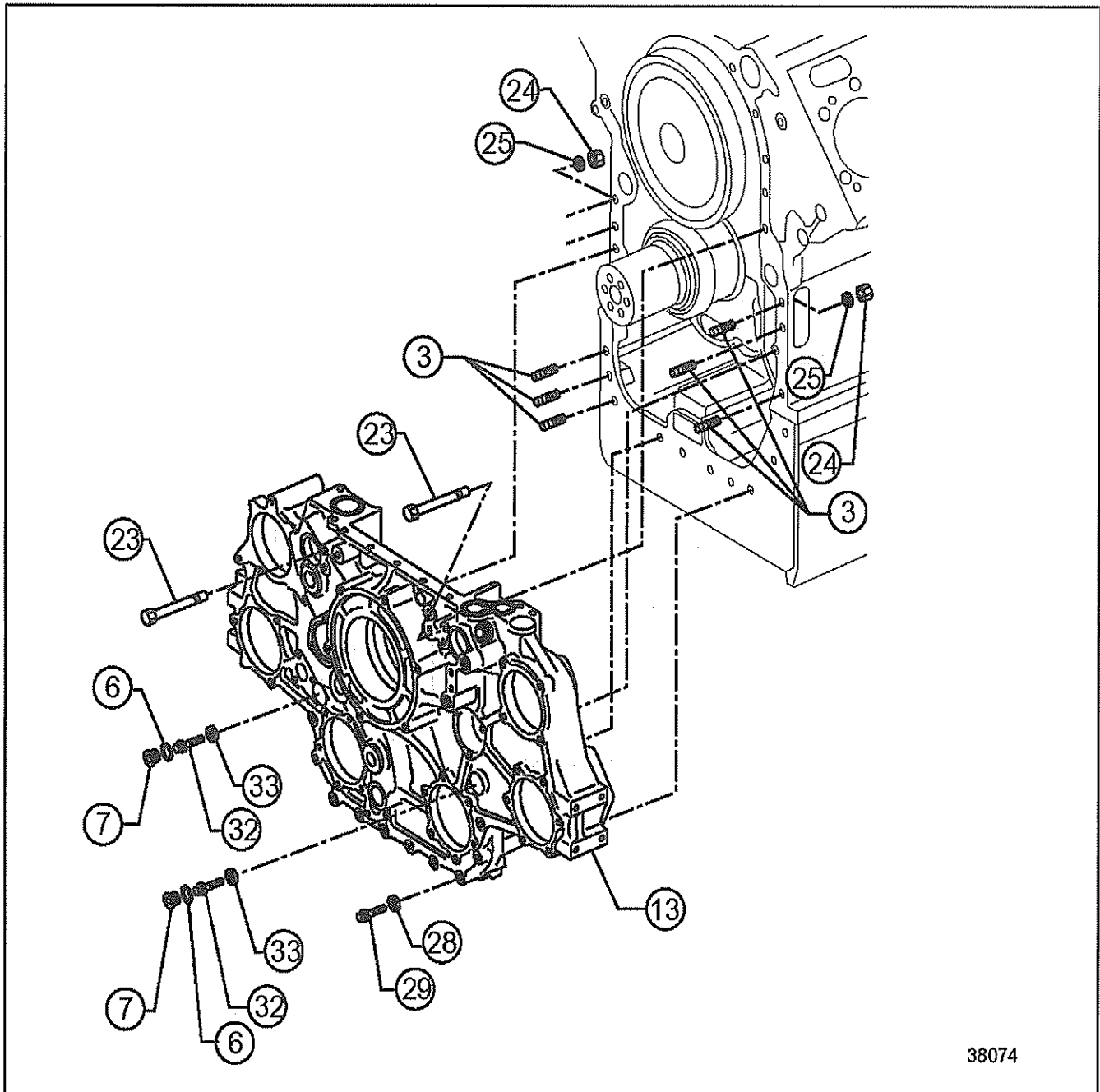


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FIG 2 of 01.3A

DETROIT DIESEL

SERIES 4000



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FIG 3 of 01.3A

01.3A CRANKSHAFT FRONT COVER					TYPES											
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.		2	2										
					6	6										
					4	8										
	01.3A156	HOUSING ASSY., GEAR CASE														
3:25	000125013012	WASHER A13			6											
	000908026005	PLUG M26X1.5 ST			1											
1:7	000908038000	PLUG SCREW M38 X 1.5 STL			2											
3:23	000931012213	BOLT M12X180MM			2											
	000931016068	BOLT, M16 X 160			2											
3:32	000933012047	BOLT, M12 X 80			2											
3:24	000934012008	NUT, HEX M12			6											
1:3	000939012023	STUD M12X30			6											
	007603026104	WASHER A26X31 COPPER			1											
3:6	007603038101	WASHER, A38 A 44 COPPER			2											
	23525813	GEAR CASE ASSY.(SERVICE); USE:E23525813			NS											
	0005330280	SEAL RING, 2.2 X 11.30 ID	4													
	000908038000	PLUG SCREW M38 X 1.5 STL	2													
	0009973532	PLUG M26X1.5	1													
	007603026104	WASHER A26X31 COPPER	1													
	007603038101	WASHER, A38 A 44 COPPER	2													
	5240150271	PLUG DRAIN M26X1.5X117X19	2													
	5319971432	PLUG ASSY., M14 X 1.5	4													
	700429015000	SEAL RING 15 X 3	2													
	735073010000	PLUG SEALING M10	1													
	304017008077	BOLT, M8 X 16 8.8			1											
2:13	E23525813				1											
	01.3A166	SEAL, CRANKSHAFT OIL FRONT														
	000125013012	WASHER A13				6										
	000933012077	BOLT, M12 X 35				6										
	0219976547	SEAL, CRANKSHAFT				1										
	5240320258	COVER, SEAL CARRIER				1										
	700429290000	SEAL RING, 290 X 4				1										
	01.3A170	GASKET, CRANKSHAFT FRONT COVER														
1:2	700429083000	SEAL RING, 83 X 5			2											
	01.3A191	COVER, ENGINE FRONT ACCESSORY DRIVE														
2:21	000933010035	BOLT, M10 X 25			6											
2:16	000933012056	BOLT M12X30MM			18											
2:15	5241880102	COVER, ACCESSORY DRIVE			3											
2:18	5241880502	COVER			1											
	01.3A192	GASKET, ENGINE FRONT ACCESSORY DRIVE														
2:19	5241880080	GASKET			3											
	5360520080	GASKET			1											

			TYPES									
01.3B VIBRATION DAMPER												
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	2	3							
	01.3B210	DAMPER, VIBRATION		2	3							
	0000352500	DAMPER, VIBRATION		3	5							
	000933020017	BOLT, M20 X 50 LG		1								
	5262300641	COVER ASSY., DAMPER W/OPENING		12								
					1							

TYPES

3-26

01.4A FLYWHEEL			TYPES											
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	1										
				3										
				0										
				7										
	01.4A001	FLYWHEEL ASSY.												
	5260300905	FLYWHEEL ASSY., MDEC		1										
	01.4A008	SEAL, FLYWHEEL OIL												
	0219976647	SHAFT SEAL		1										

		01.5A FLYWHEEL, HOUSING		TYPES											
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.												
	01.5A001	HOUSING ASSY., FLYWHEEL		9											
	000931012215	BOLT M12 X 150 10.9		5											
	000933012059	BOLT M12 X 40 10.9		0											
	000933012079	BOLT, M12 X 55 10.9		10											
	006796012100	WASHER, 12 CONICLE SPRING		7											
	5240104337			16											
				33											
				1											
	01.5A010	GASKET, FLYWHEEL HOUSING													
	700429033001	SEAL RING, 33 X 5		2											
	01.5A085	COVER, FLYWHEEL HOUSING													
	000125017014	WASHER A17 140HV		8											
	000933016001	BOLT, M16 X 20		8											
	5240160007	SCREEN F/W/HSG 184 X 145		2											
	01.5A106	GUIDE, FLYWHEEL HOUSING TIMING PIN													
	304017008077	BOLT, M8 X 16 8.8		3											
	5240150431	INDICATOR DEAD CENTER 124X3 16V4000		1											

01.5B FLYWHEEL HOUSING ADAPTOR				TYPES									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	5									
	01.5B130	ADAPTOR, FLYWHEEL HOUSING		6									
	000912012015	BOLT, M12 1.75 X 60 8.8	2										
	5260320009	ADAPTOR, FLYWHEEL	1										

DETROIT DIESEL

SERIES 4000

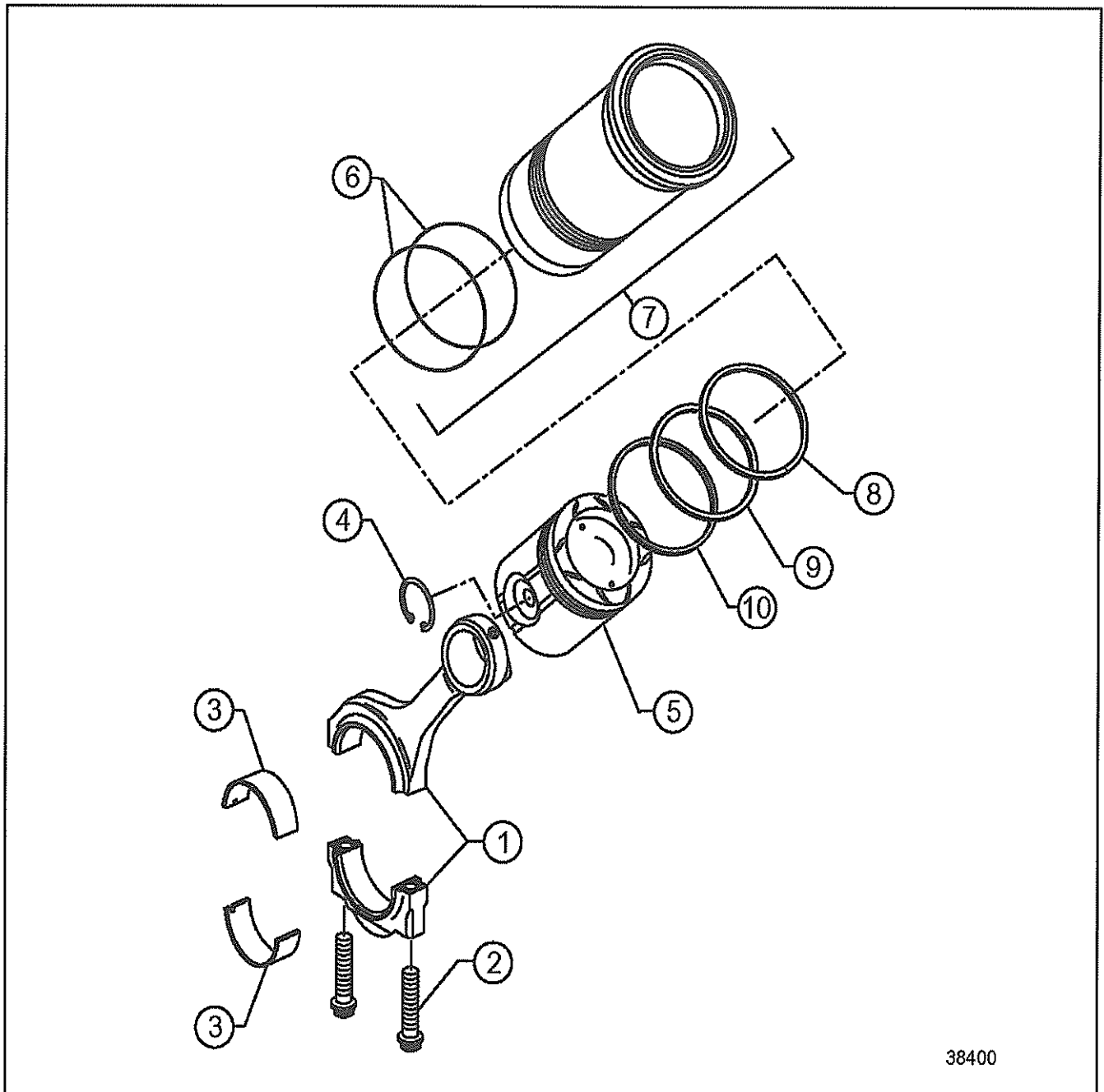


FIG 1 of 01.6

01.6 CONNECTING ROD AND PISTON					TYPES									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.		8	7	0							
	01.6001	CONNECTING ROD ASSY. <i>A CONNECTING ROD ASSY. INCLUDES CAP, BUSHING PLUS BOLTS IN 1.6001.</i>												
1:1	5240301220/42	ROD ASM CONNECTING S4000	12											
1:2	5240380471	BOLT M20 1.50 X 103.0	24											
	01.6100	SHELL, CONNECTING ROD BEARING KIT, CONROD WITH BEARING PAIR/0-0	12											
1:3	23535009													
	01.6110	PISTON KIT <i>A PISTON ASSY. INCLUDES PISTON DOME, SKIIRT, PRESSURE PLATES, BOLTS, SPRING PIN, PISTON PIN, SNAP RINGS PLUS RINGS IN 1.6120 AND 1.6130.</i>												
1:5	5240303917	PISTON ASSY., 15.5:1 CARBON SCRAPER	12											
	01.6120	RING, PISTON COMPRESSION RING, TOP COMPRESSION	12											
	0080375819													
	0120370819	RING #2 COMPRESSION	12											
	01.6130	RING, PISTON OIL CONTROL RING, OIL CONTROL; USE: 23526437	NS											
	0120370618													
	23526437	RING ASSY., OIL CONTROL	12											
	01.6150	RETAINER, PISTON PIN RING, SNAP 68X2.5	24											
	000472068000													
	01.6181	KIT, CYLINDER LINER AND SEALS <i>A CYLINDER LINER KIT INCLUDES (1) LINER AND ITEMS IN 1.6190 REQUIRED PER CYLINDER.</i>												
1:7	23525733	KIT, CYL LINER & SEALS W/CARBON SCRAPER G LVL	12											
	01.6190	SEAL, CYLINDER LINER RING, CYLINDER LINER CARBON SCRAPER	12											
	5240110159													
1:6	5550110259	SEAL LOWER LINER S4000	24											

01.7 CAMSHAFT AND GEAR TRAIN				TYPES									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	1	2	3	4	5	6	7	8	9	10
	01.7001	CAMSHAFT ASSY.											
	5260500001	CAMSHAFT ASSY., 12V S4000	1										
	01.7007	FLANGE, CAMSHAFT DRIVE											
	000933012051	BOLT, M12 X 50 8.8	3										
	5240500344	FLANGE ASSY., CAMSHAFT THRUST BEARING(INCLUDES PLUGS IN 1.7007)	1										
	01.7133	WHEEL, SPEED SENSOR PULSE											
	5240521448	WHEEL, TIMING CAMSHAFT MDEC	1										
	01.7200	GEAR, CAMSHAFT AND BALANCE SHAFT											
	000931012052	BOLT, M12 X 70	5										
	006796012100	WASHER, 12 CONICLE SPRING	5										
	23540423	GEAR, CAMSHAFT	1										
	5240520501	GEAR, CAMSHAFT; USE: 23540423	NS										

				TYPES									
01.8 VALVE AND INJECTOR OPERATING MECHANISM				8									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	6									
			5										
01.8060		ARM ASSY., EXHAUST VALVE ROCKER											
	5240500434	(R) ROCKER ARM ASSY., EXHAUST(INCLUDES ITEMS IN 1.8135)	12										
01.8075		ARM ASSY., INTAKE VALVE ROCKER											
	5240500433	(R) ROCKER ARM ASSY., INTAKE(INCLUDES ITEMS IN 1.8135)	12										
01.8160		SHAFT ASSY., ROCKER											
	000933010194	BOLT, M10 X 40	12										
01.8170		BRACKET, ROCKER SHAFT											
	000471045000	RING, SNAP	24										
	000931016091	BOLT, M16 X 180	12										
	200988045000	WASHER	24										
	5240500436	PEDESTAL ASSY., ROCKER ARM(INCLUDES ARM & PLUG IN 1.8160 & PINS IN 1.8170)	12										
	700521016200	WASHER, M16 X 2	12										
01.8253		ARM ASSY., SWING EXHAUST VALVE ROCKER											
	5240501735	FOLLOWER SWING ARM ASM EXHAUST CAM S4000; USE: E5240502235	NS										
	5240502335	SWING ROCKER ARM ASM EXHAUST CAM S4000	6										
	5240550505	CAM, SWING FOLLOWER AXLE; USE: 5240502335	NS										
	E5240502235	FOLLOWER SWING ARM ASSY.	12										
01.8255		ARM ASSY., SWING INTAKE VALVE ROCKER											
	5240501635	FOLLOWER SWING ARM ASM INTAKE CAM S4000	12										
01.8343		BRIDGE, EXHAUST VALVE											
	5240551106	BRIDGE, VALVE FLOATING	24										

			TYPES												
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.												
				6	7	9									
	01.8A450	COVER ASSY., ROCKER													
	5240160205	ROCKER COVER		12											
	01.8A455	GASKET, ROCKER COVER													
	5240160321	GASKET, ROCKER COVER		12											
	01.8A460	BOLT, ROCKER COVER													
	000125010524	WASHER A10.5		24											
	000931010332	BOLT, M10 X 150		24											

- 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
 - 01.5B FLYWHEEL HOUSING ADAPTOR
 - 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**
 - 03.1A AIR CLEANER AND/OR ADAPTOR
 - 03.3C AIR INTAKE MANIFOLD
 - 03.5A TURBOCHARGER, INTERCOOLER AND AFTERCOOLER
 - 03.7 INTERCOOLER/AFTERCOOLER
- 04 LUBRICATING SYSTEM**
 - 04.1A OIL PUMP
 - 04.1B OIL DISTRIBUTION SYSTEM
 - 04.2A OIL FILTER
 - 04.4A OIL COOLER AND MARINE GEAR LINES
 - 04.6A DIPSTICK
 - 04.7A OIL PAN
 - 04.8A VENTILATING SYSTEM
- 05 COOLING SYSTEM**
 - 05.1 FRESH WATER PUMP
 - 05.2A WATER OUTLET MANIFOLD AND/OR ELBOW
 - 05.2B THERMOSTAT
 - 05.3B WATER CONNECTIONS
- 06 EXHAUST SYSTEM**
 - 06.1A EXHAUST MANIFOLD 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 4000

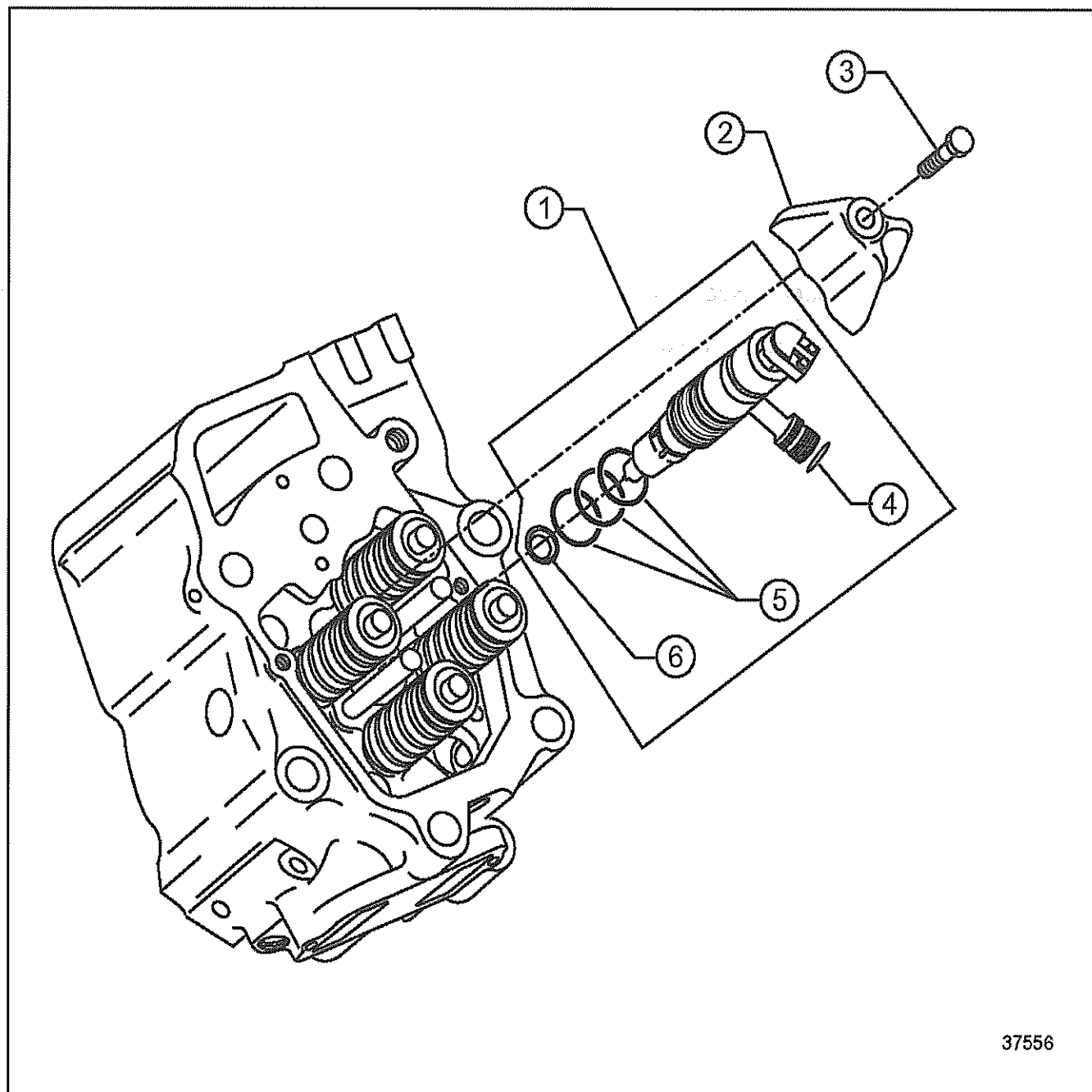


FIG 1 of 02.1A

		TYPES									
		02.1A FUEL INJECTOR/CNG CONTROLS									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	5	1	5					
	02.1A001	INJECTOR ASSY.									
	0010106951	INJECTOR ASSY., VT0-G166W48B W/O FILTER		12							
	5240160419	SEAL, INJECTOR	NS								
	700429021001	SEAL RING, 21 X 2	1								
	700429037000	SEAL RING, 37.7 X 3.53	3								
	23540260	SEAL RING, INJECTOR HARDEN COPPER									
	02.1A270	CLAMP, INJECTOR									
	5240780535	CLAMP		12							
	5249902101	BOLT, M12 X 1.75 X 100		12							

				TYPES									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	9	1	1							
		02.1B INJECTOR, CONTROLS ELECTRONIC		1	0	0							
				8	0	0							
					2	3							
	02.1B501	MODULE ASSY., ELECTRONIC CONTROL (ECM)											
	5275304760	CONTROL UNIT, ELECTRONIC	1										
	02.1B600	SENSOR, OIL OR FUEL PRESSURE											
	0035351731	SENSOR, FUEL PRESSURE			1								
	0035352531	SENSOR, PRESSURE (10 BAR)			1								
	0035353931	SENSOR, DIN MDEC FUEL HI PRESSURE 1600 BAR			1								
	5240780050	BUSHING			1								
	02.1B610	SENSOR, MAG. IDLER											
	0005357533	SENSOR, SRS			1								
	02.1B620	SENSOR, MAG. CRANKSHAFT											
	0005357833	SENSOR, SPEED M91CE											
	02.1B649	SENSOR, EXHAUST TEMPERATURE											
	0035352731	SENSOR, PRESSURE			1								
	02.1B704	HARNESS, ENGINE SENSORS TO ECM											
	000125006431	WASHER A6.4 14 OHV DBL8451.11 DIN 125				2							
	0005461220	STRIP ASM				1							
	000934008008	NUT, HEX M8				6							
	304017006058	BOLT, M6 X 12				1							
	5221530026	DAMPER, SPR ADJ WRG HARNESS				3							
	5275302525	HARNESS ASM SENSOR WIRING W2 12V4000			1								
	02.1B705	HARNESS ASSY., INJECTOR SOLENOID WIRING											
	5275302425	HARNESS ASM INJECTOR WIRING W4 12V4000			1								
	02.1B745	BRACKET, WIRING HARNESS											
	000000000895	BOLT M8 1.25 X 40 10.9 HEX ISO4017 ZNPH R5F				4							
	000125005322	WASHER A5.3 140HV DBL8451.11 DIN 125				1							
	000125006431	WASHER A6.4 14 OHV DBL8451.11 DIN 125				1							
	000125010524	WASHER A10.5				3							
	0001596440	CLAMP CABLE DN10 S4000				21							
	0001596540	CLAMP CABLE DN17 S4000				8							
	000912005039	Bot, M5 0.80 X 12				1							
	000912006042	BOLT, M6 X 25				1							
	000912010012	BOLT, M10 1.50 X 35				1							
	000912010057	BOLT M10 1.50 X 45 10.9 HEX SOC HD DIN912 DBL9400				1							
	000931008109					1							
	000931010111	BOLT, M10 X 65				1							
	000931010239	BOLT, M10 X 80 8.8				1							
	000931010296	BOLT M10 1.50 X 85 8.8 DBL8421 DIN 931				1							
	000931010339	BOLT M10 1.50 X 160 8.8-A DBL8451.21 DIN				1							

FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	TYPES									
				9	1	1							
		02.1B INJECTOR, CONTROLS ELECTRONIC		1	0	0							
				8	0	0							
					2	3							
	02.1B745	BRACKET, WIRING HARNESS											
	000934006006	NUT, HEX M6				1							
	007349008002	WASHER				2							
	007349010002	WASHER, 10.5 STL				3							
	136M55056/1	Bracket 72 X 20 X 5				3							
	304017008077	BOLT, M8 X 16 8.8				1							
	304017008081	BOLT, M8 X 25 8.8 LG				4							
	304017008084	BOLT, M8 X 35 8.8				2							
	304017010035					3							
	5241502473	BRACKET ASM WIRING HARNESS S4000				1							
	5241534640	BRACKET, 55 X 37.5 X 2.5				1							
	5241537340	BRACKET S4000				1							
	5241537440	BRACKET S4000				1							
	5241537540	BRACKET ECU 455 X 90 X 5 S4000				1							
	5241537640	BRACKET ECU 431 X 110.1 X 5 S4000				1							
	5241537740	BRACKET ECU 332 X 121.266 X 5 S4000				1							
	5241537840	BRACKET 37 X 27 X 4 S4000				1							
	5241538140	BRACKET 80 X 20 X 5 S4000				3							
	5241538240	BRACKET 87.2 X 37 X 2.5 S4000				1							
	5241538340	BRACKET 143 X 26 X 4 S4000				1							
	5241538440	BRACKET 40 X 20 X 4 S4000				12							
	5241538540	BRACKET 105 X 37 X 5 S4000				4							
	5511530050	SPACER, 10MM X 18MM				7							
	5551870640	BRACKET, L 51 X 38 X 20				3							
	916016008202	CLAMP, BRSGU 8/20				1							

				TYPES									
02.2 FUEL PUMP													
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	3	6	7	1						
02.2001				PUMP ASSY., FUEL									
	0000910124	COUPLING		1									
	000933010093	BOLT M10 X 35		2									
	5240900450	PUMP, FUEL DELIVERY		1									
	700429083000	SEAL RING, 83 X 5		1									
	735151010100	WASHER, A10.5		2									
02.2006				PUMP ASSY., FUEL HIGH PRESSURE									
	000933012051	BOLT, M12 X 50 8.8				4							
	200433013000	WASHER				4							
	5260701201	PUMP FUEL HIGH PRESSURE S4000				1							
	735151012100	WASHER, A12.5				4							
02.2260				ADAPTOR, FUEL PUMP DRIVE									
	5240910024	ADAPTOR		1									

DETROIT DIESEL

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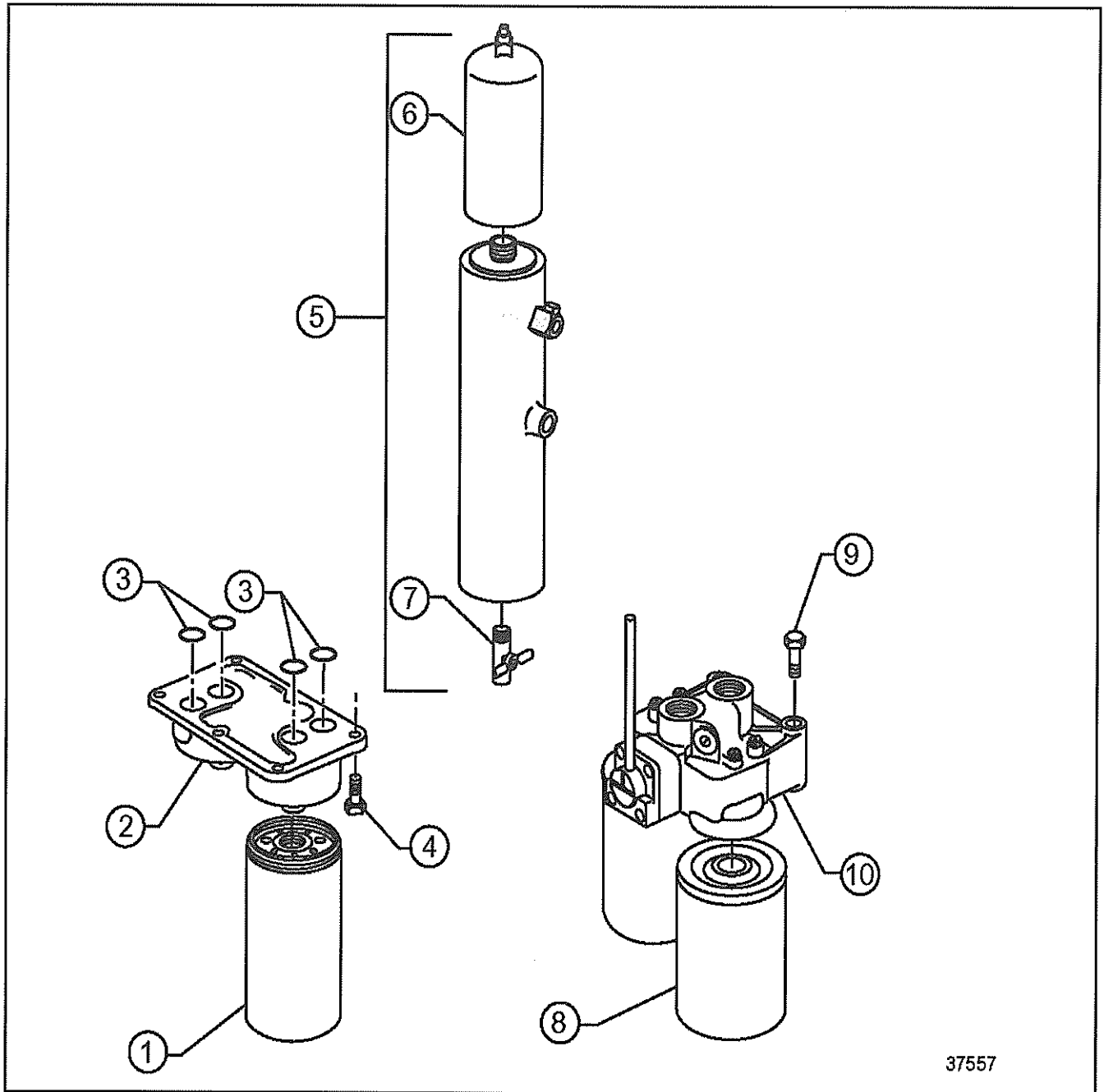


FIG 1 of 02.3A

02.3A FUEL FILTER AND STRAINER				TYPES									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	1	2	3	4	5	6	7	8	9	10
	02.3A316	FILTER ASSY., SPIN ON FUEL	1										
	0020922101	FILTER FUEL SPIN ON 302 X 140 16V4000	4										

					TYPES									
02.5A FUEL LINES AND FUEL COOLER														
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.		2	2	2	2	2					
					4	5	5	5	5					
					4	0	1	2	2					
					2	3	9	0	1					
	02.5A075	TUBE ASSY., FUEL HIGH PRESSURE PUMP TO RAIL												
	000125008427	WASHER A8.4							2					
	000933010073	BOLT, M10 X 80.0		2										
	304017008084	BOLT, M8 X 35 8.8							2					
	304017008085	BOLT, M8 X 40 8.8		1										
	5240905532	TUBE ASSY., FUEL HIGH PRESSURE PUMP TO LB RAIL		1										
	5240920124	ELBOW FUEL 122 X 34 X 25 S4000							1					
	5249970081	GROMMET		3										
	5260900376	TUBE ASSY., FUEL HIGH PRESSURE PUMP TO LB RAIL; USE: 5240905532		NS										
	5260900776	TUBE ASSY., FUEL HIGH PRESSURE PUMP TO RB RAIL		1										
	5801533240	BRACKET L		1										
	700325022100	CLAMP, HALF TUBE 1/1 D9 - 22 MM		2										
	700325022114	CLAMP, PIPE HALF		4										
	700429074000	O-RING 74 X 4 MMN429 S4000							1					
	8381594740	BRACKET		2										
	02.5A076	CONNECTOR, FUEL HIGH PRESSURE LINES												
	0000787949	FLOW RESTRICT VALVE M70CE S4000		12										
	000933010194	BOLT, M10 X 40		12										
	5240700146	VALVE, PRESSURE RELIEF		1										
	5240700833	LINE, FUEL HIGH PRESSURE DBL WALL JUMPER		12										
	5240780047	ADAPTER		1										
	5240780171	NUT, END OF RAIL		3										
	5240780271	BOLT, THRUST		1										
	5240780276	WASHER, HIGH PRESSURE CONNECTION		2										
	5240780724	THRUST, MEMBER		3										
	5240780768	CONNECTOR		12										
	5260780690	RAIL, FUEL HIGH PRESSURE		2										
	700429024000	SEAL RING, 24 X 5		12										
	700429036001	SEAL RING, 36 X 5		12										
	02.5A100	TUBE, FUEL PUMP TO FILTER												
	000000003020								2					
	000912010003	BOLT, M10 X 20							12					
	007603014102	WASHER, A14 X 18 COPPER							2					
	007603018101	007603018101							2					
	304017010035								2					
	5249971216	BUSHING THREADED S4000							1					
	5249971316	BUSHING THREADED S4000							1					
	5260700081	LINE ASM FUEL RETURN LOW PRESS S4000							1					
	5260700181	LINE ASM FUEL RETURN LOW PRESS S4000							1					
	5260700281	LINE ASM FUEL RETURN LOW PRESS S4000							1					

				TYPES									
02.5A FUEL LINES AND FUEL COOLER													
FIG	PART NO.	NAME AND DESCRIPTION	ASSY.	2	2	2	2	2					
REF.			QTY.	4	5	5	5	5					
				4	0	1	2	2					
				2	3	9	0	1					
	02.5A100	TUBE, FUEL PUMP TO FILTER											
	5260700381	LINE ASM FUEL RETURN LOW PRESS 860 S4000					1						
	5260700481	LINE ASM FUEL RETURN LOW PRESS 820 S4000					1						
	700223006000	BOLT, BANJO					1						
	700223010000	BOLT BANJO A12 MMN223 M91CE S2000					1						
	735186016000	UNION MMN5186 16V4000			2								
	735214010000						1						
	735214015000	BANJO UNION 15 MTN5214					1						
	02.5A112	TUBE, FUEL PUMP OUTLET TO FUEL COOLER											
	304017008087	BOLT, M8 X 50 8.8					3						
	5511532350	SPACER, BUSHING					3						
	02.5A210	TUBE, FUEL DRAIN											
	007603012111	WASHER, A12 X 15.5 COPPER					12						
	915006004002	UNION, 4					12						
	02.5A225	TUBE ASSY., FUEL RETURN MANIFOLD											
	000000001444	BOLT, M6 1.00 x 12 8.8 HEX					1						
	000125006431	WASHER A6.4 14 OHV DBL8451.11 DIN 125					2						
	007603012111	WASHER, A12 X 15.5 COPPER					2						
	304017006058	BOLT, M6 X 12					1						
	5512030150	SPACER, 8-0.5					1						
	700223004000	BOLT, BANJO A4					1						
	X00002459	BRACKET S4000					1						
	02.5A250	BLOCK, FUEL SYSTEM JUNCTION											
	000933010116	BOLT, M10 X 45					7						
	007603022102	WASHER A22X27 COPPER					4						
	5240110732	COVER, ACCESS PORT STD S4000					1						
	5240111380	GASKET, ACCESS COVER					1						
	5240900312	BLOCK FUEL JUNC LOW PRESS/FILTER HEAD 16V4000					1						
	5561870453						1						
	02.5A251	HOSE, JUNCTION BLOCK TO FUEL BLOCK ASSY.											
	5260700881	HOSE FUEL S4000					4						
	700223015002	UNION BANJO 15 MMN223					2						
	02.5A252	BRACKET, FUEL SYSTEM JUNCTION BLOCK											
	007349008002	WASHER					2						
	304017008081	BOLT, M8 X 25 8.8 LG					2						
	5240782341	BRACKET FUEL JUNC BLK S4000					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
 - 01.5B FLYWHEEL HOUSING ADAPTOR
 - 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**
 - 03.1A AIR CLEANER AND/OR ADAPTOR
 - 03.3C AIR INTAKE MANIFOLD
 - 03.5A TURBOCHARGER, INTERCOOLER AND AFTERCOOLER
 - 03.7 INTERCOOLER/AFTERCOOLER
- 04 LUBRICATING SYSTEM**
 - 04.1A OIL PUMP
 - 04.1B OIL DISTRIBUTION SYSTEM
 - 04.2A OIL FILTER
 - 04.4A OIL COOLER AND MARINE GEAR LINES
 - 04.6A DIPSTICK
 - 04.7A OIL PAN
 - 04.8A VENTILATING SYSTEM
- 05 COOLING SYSTEM**
 - 05.1 FRESH WATER PUMP
 - 05.2A WATER OUTLET MANIFOLD AND/OR ELBOW
 - 05.2B THERMOSTAT
 - 05.3B WATER CONNECTIONS
- 06 EXHAUST SYSTEM**
 - 06.1A EXHAUST MANIFOLD AND/OR CONNECTIONS
- 07 ELECTRICAL INSTRUMENTS**
 - 07.1A BATTERY, CHARGING GENERATOR
 - 07.3A STARTING MOTOR
- 11 ENGINE MOUNTING**
 - 11.1A ENGINE MOUNTING AND BASE

10-11-04
10-11-04
10-11-04

		03.1A AIR CLEANER AND/OR ADAPTOR		TYPES									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.										
	03.1A230	BRACKET, AIR CLEANER MOUNTING		4									
	304017008081	BOLT, M8 X 25 8.8 LG		0									
	5240900241	BRACKET		1									
	5240981739	BRACKET											
	5240981839	BRACKET											
	03.1A259	ELBOW, TURBOCHARGER AIR INLET		16									
	000908010002	PLUG THREADED		4									
	000908020000	PLUG M20 X 1.5		4									
	007603010110	WASHER, A10 X 13.5 COPPER		4									
	007603014102	WASHER, A14 X 18 COPPER		4									
	007603020101	WASHER, A20 X 24 COP		4									
	114C52010/1	BUSHING, THREADED		4									
	5240902628	ELBOW ASM AIR FILTER S4000		4									
	700336150004	SLEEVE, RUBBER		4									
	900288166002	CLAMP		8									
	X00003468	BRACKET 147 X 32 X 5 AIR FILTER S4000		4									

03.3C AIR INTAKE MANIFOLD				TYPES									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	5									
	03.3C801	AIR INTAKE MANIFOLD		7									
	000125010524	WASHER A10.5	12										
	000908014001	PLUG, M14 X 1.5	2										
	000908052003	PLUG M52X1.5 STL DBL 8451.21	2										
	000931010345	BOLT, M10 X 140 8.8	24										
	007603014102	WASHER, A14 X 18 COPPER	2										
	007603022102	WASHER A22X27 COPPER	2										
	007603052101	WASHER, A52 X 60 COPPER	2										
	5240980907	MANIFOLD AIR (CENTER)	4										
	5240981107	MANIFOLD AIR CHARGE (FRONT)	1										
	5240981407	MANIFOLD AIR CHARGE (FRONT)	1										
	700354014003	ADAPTOR, BUSHING M14 X 1.5	2										
	700429140000	SEAL RING, 140 X 8	5										
	03.3C803	GASKET, AIR INTAKE MANIFOLD											
	5240980680	GASKET	12										

				TYPES									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.										
				2	2	2							
		03.5A TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		0	0	0							
				4	4	4							
				1	3	4							
	03.5A001	TURBOCHARGER											
	11506101	NUT, M10 X 1.5		16									
	23526526	BOLT, M10 X 1.5 X 40.0		16									
	23526527	BOLT, M10 X 1.5 X 50.0		8									
	5241420152	SPACER; USE: 23526527		NS									
	5249900405	STUD, M10 X 1.5 X 66; USE: 23526526		NS									
	5260200805	TURBOCHARGER ASM 1.08A/R BTV7507		4									
	23505781	KIT, TURBINE V-BAND W/NUT	1										
	23505789	KIT, COMPRESSOR V-BAND W/NUT	1										
	03.5A307	GASKET, TURBOCHARGER EXHAUST INLET CONNECTION											
	23517076	GASKET TURB EXH INLET S50G		4									
	03.5A324	ADAPTOR, TURBOCHARGER EXHAUST OUTLET											
	5241420302	OUTLET, TURBO EXHAUST			2								
	03.5A325	GASKET, TURBOCHARGER EXHAUST OUTLET											
	5244920181	SEAL RING EXHAUST 4.5620 DIA			4								
	03.5A330	BRACKET, TURBOCHARGER EXHAUST OUTLET ADAPTOR											
	000933010095	BOLT, M10 X 50 8.8			2								
	11504516	BOLT, M10 X 1.5 X 35 LG			2								
	11506101	NUT, M10 X 1.5			6								
	5241420540	BRACKET			4								
	5511531250	SPACER, 30MM			2								
	03.5A414	TUBE, TURBOCHARGER AIR OUTLET CONNECTION											
	000000001039	BOLT M10 X 40 8.8 16V4000				8							
	000125010524	WASHER A10.5				8							
	000934010007	NUT				8							
	0289976148	O-RING 150 X 5.2 16V4000				2							
	23540064	COLLECTOR, CHARGE AIR (LB)				1							
	23540065	COLLECTOR, CHARGE AIR (RB)				1							
	23540070	TUBE, CHARGE AIR LEFT BANK				1							
	23540071	TUBE, CHARGE AIR RIGHT BANK				1							
	23540560	CLAMP, HOSE T-BOLT 3.5"-4.00"				12							
	5240980082	SLEEVE RUBBER 16V4000				6							

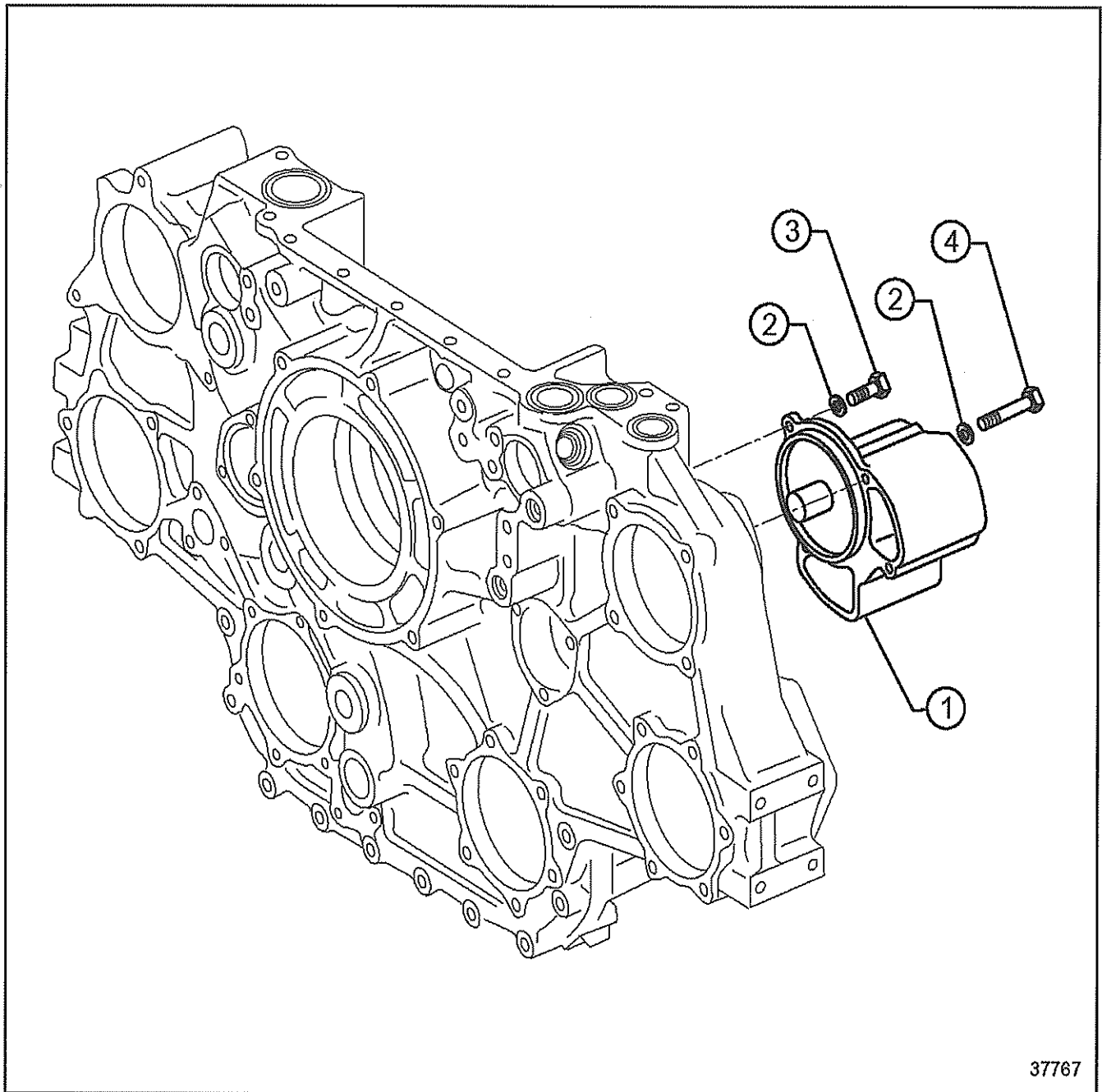
03.7 INTERCOOLER/AFTERCOOLER				TYPES															
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	7 3	8 5														
03.7001		INTERCOOLER ASSY./ CHARGE AIR COOLER																	
	5260900014	COOLER ASSY.,CHARGE AIR			1														
	735210014000				4														
03.7003		BRACKET, INTERCOOLER MOUNTING																	
	000933012080	BOLT, M12 X 35			8														
	000933012120	BOLT, M12 X 45			6														
	5240980730	SUPPORT BRACKET RIGHT LWR SCAC			1														
	5240980830	SUPPORT BRACKET LEFT LWR SCAC			1														
	5249900140	WASHER M16-31.69 X 17.39 X 3.0			6														
	5249900304	BOLT, M12 1.75 X 65.0			4														
	5249900740	WASHER			14														
	5249901901	BOLT			10														
	5260980230	BRACKET, SUPPORT UPPER "V" SCAC			2														
	5269900051	NUT			8														
	5269900101	BOLT, M16 2.00 X 110.0 HEX HD			6														
03.7300		HOUSING, INTERCOOLER/AIR COOLER																	
	000931008240	BOLT, M8 X 90 10.9		1															
	000933008204	BOLT, M8 X 30 10.9			32														
	304017008037	BOLT, M8 X 65 10.9		27															
	5240940153	SPACER		1															
	5240940253	SPACER, LONG 20.0 X 25.0		3															
	5240980937	HOUSING ASSY., AIR OUTLET			1														
	5240982637	HOUSING CAC INLET TOP 16V4000		1															
	5249900340	WASHER, M8 X 9.0 X 18.6 X 2.0			32														
	5249910160	PIN ROLL			2														
	5269870235	SEAL, CHARGE AIR COOLER			1														
	700429870000	O-RING 16V4000		1															
03.7305		ELBOW, WATER INLET & OUTLET INTERCOOLER/AIR COOLER																	
	5240983015				1														
	5240983115				1														
	5260980015	ELBOW, AIR OUTLET LEFT BANK; USE: 5240983015			NS														
	5260980115	ELBOW, AIR OUTLET RIGHT BANK; USE: 5240983115			NS														
	5269970045	SEAL RING, SQUARE SECTION			2														
	5319971132	PLUG ASSY., M18 X 1.5			1														
	735210014000				3														

- 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
 - 01.5B FLYWHEEL HOUSING ADAPTOR
 - 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**
 - 03.1A AIR CLEANER AND/OR ADAPTOR
 - 03.3C AIR INTAKE MANIFOLD
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- 04 LUBRICATING SYSTEM**
 - 04.1A OIL PUMP
 - 04.1B OIL DISTRIBUTION SYSTEM
 - 04.2A OIL FILTER
 - 04.4A OIL COOLER AND MARINE GEAR LINES
 - 04.6A DIPSTICK
 - 04.7A OIL PAN
 - 04.8A VENTILATING SYSTEM
- 05 COOLING SYSTEM**
 - 05.1 FRESH WATER PUMP
 - 05.2A WATER OUTLET MANIFOLD AND/OR ELBOW
 - 05.2B THERMOSTAT
 - 05.3B WATER CONNECTIONS
- 06 EXHAUST SYSTEM**
 - 06.1A EXHAUST MANIFOLD 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 04.1A

04.1A OIL PUMP			TYPES										
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	2	4	8	9						
	04.1A001	PUMP ASSY., OIL											
	0021804101	PUMP ASSY., OIL ENG					1						
	304014010013	BOLT, M10 1.50 X 120 10.9					3						
	304017010051	BOLT, M10 1.50 X60 10.9					1						
	5241871853	SPACER					1						
	735151010100	WASHER, A10.5					3						
	04.1A006	PLATE, OIL PUMP MOUNTING											
	000933012056	BOLT M12X30MM	6										
	5241880102	COVER, ACCESSORY DRIVE	1										
	04.1A007	GASKET, OIL PUMP TO CYLINDER BLOCK											
	5241880080	GASKET	1										

04.1B OIL DISTRIBUTION SYSTEM					TYPES									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.											
	04.1B510	PIPE, OIL PUMP INLET		7	7									
				2	4									
				4	1									
	000125008427	WASHER A8.4												
	304017008087	BOLT, M8 X 50 8.8		4										
	5241870087	TUBE, CONNECTOR		4										
	5241871053	TUBE, FLOATING OIL PAN ASSY.		1										
	700429070000	SEAL RING, 70 X 5		1										
	700429075002	SEAL RING, 75 X 3.5		2										
				1										
	04.1B530	SCREEN, OIL PUMP INLET												
	007349008002	WASHER		4										
	304017008087	BOLT, M8 X 50 8.8		4										
	5241800155	BASKET, OIL PICKUP		1										
	04.1B581	TUBE, JUNCTION BLOCK INLET												
	304014008032	BOLT, M8 X 1.25 X 80			24									
	5241801643	NOZZLE, LUBE OIL			12									
	5241870101	TUBE, 229 X 23.2D			10									
	5241870201	TUBE, 141.5 X 23.2D			1									
	5241870240	BLOCK, PSTN LUBE NOZZLE SUPT			10									
	5241870276	WASHER			1									
	5241870401	TUBE, 185.5 X 23.2			1									
	5241870940	BLOCK, PSTN LUBE NOZZLE SUPT.			2									
	700429024002	SEAL RING 24 X 4			12									
	700429041000	SEAL RING, 41 X 4			1									
	04.1B582	VALVE, OIL PRESSURE RELIEF												
	5241870276	WASHER			1									
	700429041000	SEAL RING, 41 X 4			1									
	04.1B642	TUBE, OIL DRAIN												
	007603014102	WASHER, A14 X 18 COPPER			4									
	304017008083	BOLT, M8 X 30			1									
	5241872240	BRACKET			1									
	5271800419	TUBE ASSY., OIL LINE			1									
	700223006000	BOLT, BANJO			2									
	700325012100	CLAMP, HALF TUBE			2									
	700327008000	GROMMET, M8			1									

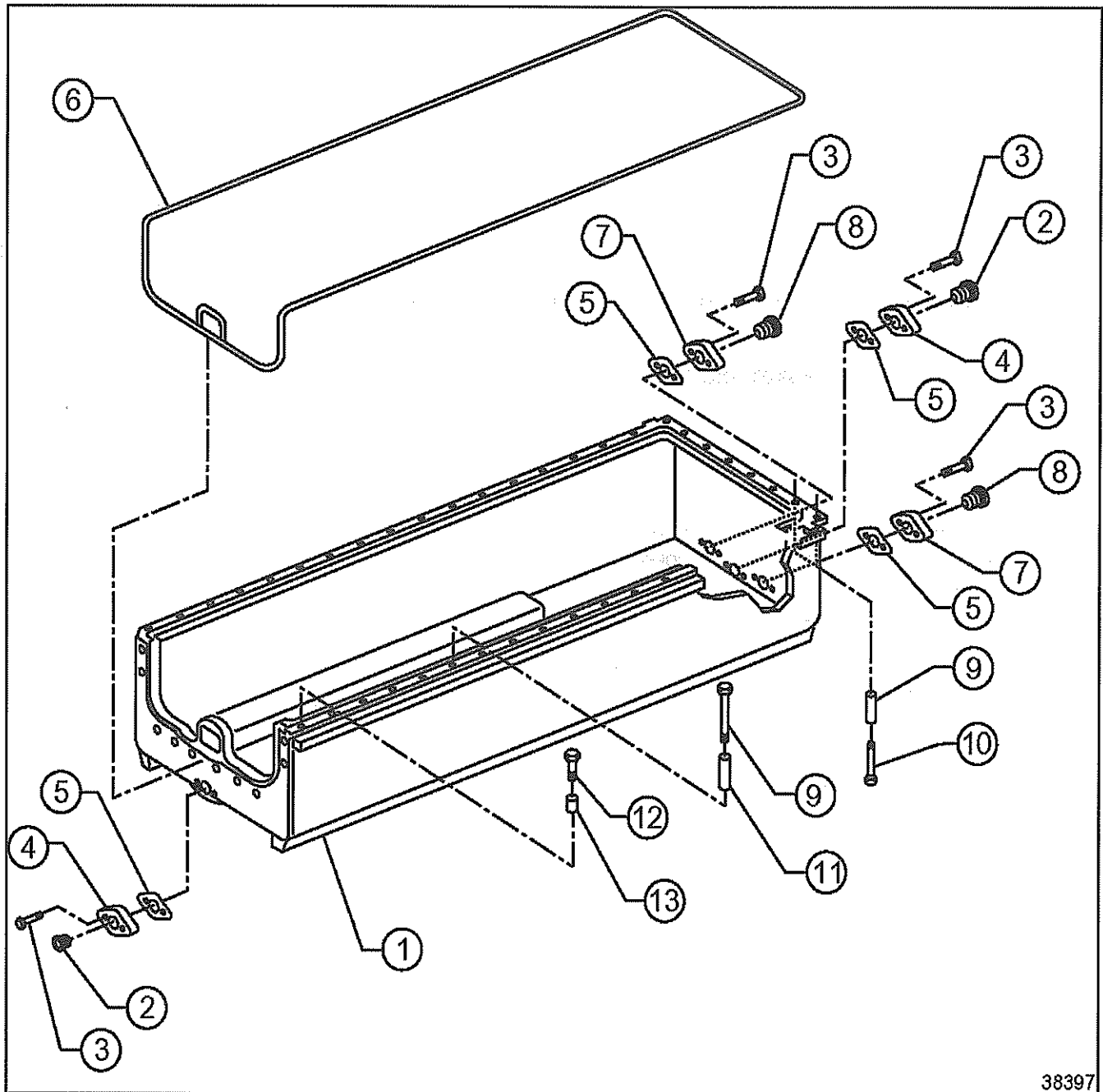
				TYPES											
04.2A OIL FILTER															
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	7	2	6									
	04.2A240	FILTER ASSY., OIL		7											
	000912010017			7											
	5241801011	HOUSING OIL FILTER HORIZONTAL S4000		1											
	700429055001	SEAL RING, 55 X 5		7											
	04.2A250	ELEMENT, OIL FILTER													
	0031845301	FILTER ELEMENT OIL 302X136 M90CE/M91CE		4											
	04.2A260	GASKET, OIL FILTER ELEMENT													
	700429028002	SEAL RING, 28 X 4		1											

04.4A OIL COOLER AND MARINE GEAR LINES				TYPES										
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	1										
	04.4A001	CORE, OIL COOLER ENGINE		4										
	5241880226	(R) ELEMENT COOLER 30 PLATE		8										
				5										
	04.4A040	GASKET, OIL COOLER CORE-OUTER												
	05139805	SEAL RING, 1.171 X .139		6										
	5249970245	SEAL RING; USE: 05139805		24										
	700429290000	SEAL RING, 290 X 4		NS										
				2										
	04.4A050	HOUSING, OIL COOLER-ENGINE												
	000931010247	BOLT, M10 X 120		2										
	000933010155	BOLT, M10 X 70		14										
	00218443	NUT, 3/4"-10		12										
	5241880604	HOUSING, OIL COOLER 30 PLATE		2										
	5249970040	WASHER, SEALING		12										
	04.4A218	CONNECTION, OIL COOLER WATER CROSSOVER												
	200982010000	NUT		1										
	5241870253	COOLER TUBE CROSSOVER		1										
	5241880140	RETAINER CROSSOVER TUBE		1										
	5249970145	SEAL RING, 101.90 OD X 94.84 ID		2										
	700429100001	SEAL RING, 100 X 4		1										

04.6A DIPSTICK				TYPES													
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	1	5	4	4										
	04.6A001	DIPSTICK															
	5240100772	DIPSTICK, 675 X 490 X 545 12V; USE: 5240102272		NS													
	5240102272	DIPSTICK, OIL 675 X 495 X 654		1													
	04.6A020	GUIDE, DIPSTICK															
	007603022102	WASHER A22X27 COPPER		1													
	5240100266	TUBE ASSY., DIPSTICK W/7 BOLT COVER		1													
	700429012002	SEAL RING 12 X 5		1													
	8800180770	CONNECTOR, THREADED		1													
	04.6A060	PLATE, DIPSTICK ADAPTOR															
	0000181802	OIL FILL CAP		1													
	000933010035	BOLT, M10 X 25		14													
	5240100264	FILLER NECK, OIL		1													
	04.6A061	GASKET, DIPSTICK ADAPTOR PLATE															
	5240111380	GASKET, ACCESS COVER		2													

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FIG 1 of 04.7A

			TYPES									
04.7A OIL PAN												
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	1	1							
			3	3								
			3	5								
04.7A001		PAN, OIL										
	000125010524	WASHER A10.5	8									
	000931010315	BOLT, M10 X 100	8									
	000931012176	BOLT, M12 X 150 8.8	10									
	000933010095	BOLT, M10 X 50 8.8	28									
	007349013002	WASHER M13	10									
	5260140102	PAN OIL CAST ALUM 12V4000 GENSETS	1									
	735151010100	WASHER, A10.5	28									
04.7A030		GASKET, OIL PAN TO BLOCK										
	5269870535	RUBBER SEAL	1									
04.7A080		PLUG, OIL PAN DRAIN										
	000908012003	PLUG M 12 X 1.5 DIN 908 4.6 DBL 8451.21	2									
	000912010065	BOLT, M10 1.50 X 25 8.8		10								
	007603012111	WASHER, A12 X 15.5 COPPER	2									
	007603030101	WASHER, A30 X 36 COPPER		5								
	5379970030	PLUG		5								
	5500140145	FLANGE OIL PAN		5								
04.7A090		GASKET, OIL PAN DRAIN PLUG										
	5602030280	GASKET		5								
04.7A120		COVER, OIL PAN										
	000933010035	BOLT, M10 X 25	2									
	5240140033	COVER 16V4000	1									
04.7A130		GASKET, OIL PAN COVER										
	5240140080	GASKET 16V4000	1									

					TYPES									
04.8A VENTILATING SYSTEM														
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.		1	2	3	4	5	6	7	8	9	10
	04.8A001	PIPE ASSY, BREATHER			1	2								
	000000000668	CLAMP		8										
	000125008427	WASHER A8.4		4										
	000934008008	NUT, HEX M8		4										
	304017008079	BOLT, M8 X 20 8.8		4										
	916016035201	CLAMP BRSGU 35/20 N16016 M91CE S2000		4										
	X00003521	HOSE 1390 X 25 INTAKE S4000		2										
	X00003523	HOSE 950 X 25 INTAKE S4000		2										
	04.8A045	BREATHER ASSY.												
	000908016001	PLUG M16X1.5 DIN 908 DBL 8451.21 M91CE		1										
	000933010035	BOLT, M10 X 25		4										
	007603016105	WASHER, A16 X 20 COPPER		2										
	915006008002			1										
	X00003100	TUBE ASM 346 BREATHER ENGINE S4000		1										
	04.8A050	BODY, BREATHER OR SEPARATOR												
	0000187135	SEPARATOR, OIL		4										
	000125006431	WASHER A6.4 14 OHV DBL8451.11 DIN 125		16										
	000125008427	WASHER A8.4		6										
	000931008189	BOLT, M8 1.25 X 85 8.8		6										
	000934008008	NUT, HEX M8		4										
	007603016105	WASHER, A16 X 20 COPPER		1										
	304017006063	BOLT, M6 1.00 X 25 8.8		16										
	5260180940	SUPPORT OIL SEPARATOR HSG S4000		1										
	915006008002			1										
	04.8A056	BRACKET, BREATHER/COLLECTOR MOUNTING												
	000000001041	BOLT M10 1.50 X 140 8.8 HEX ISO4014 A3C		1										
	000000001464	BOLT M10 1.50 X 30 8.8 HEX ISO4017 A3C		1										
	000125008427	WASHER A8.4		3										
	000933012051	BOLT, M12 X 50 8.8		2										
	000933012054	BOLT, M12 X 25		2										
	007349008002	WASHER		1										
	007349010002	WASHER, 10.5 STL		1										
	304017008077	BOLT, M8 X 16 8.8		2										
	304017008083	BOLT, M8 X 30		1										
	5241538540	BRACKET 105 X 37 X 5 S4000		1										
	735151012100	WASHER, A12.5		4										
	916016035201	CLAMP BRSGU 35/20 N16016 M91CE S2000		4										
	X00003744	BRACKET 195 X 30 X 8 S4000		1										
	X00004367	BRACKET 290 X 104 X 6 S4000		1										
	04.8A180	CLAMP, BREATHER EXTENSION PIPE HOSE												

04.8A VENTILATING SYSTEM					TYPES									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.											
	04.8A180	CLAMP, BREATHER EXTENSION PIPE HOSE		1										
	000000000670	CLAMP, M91CE		2										
	04.8A183	BRACKET, BREATHER EXTENSION PIPE		5										
	000125008427	WASHER A8.4		2										
	000933012077	BOLT, M12 X 35		4										
	304017008084	BOLT, M8 X 35 8.8		6										
	5241872240	BRACKET		1										
	04.8A187	HOSE, OIL DRAIN												
	000125008427	WASHER A8.4		2										
	007603016105	WASHER, A16 X 20 COPPER		2										
	007603026101	RING, SEAL A26 X 32		1										
	304017008079	BOLT, M8 X 20 8.8		2										
	5249971015	BUSHING THREADED M16X1.5 X M26X1.5 X 36.95X32 S400		1										
	735151008100	WASHER		1										
	915011010101	Bolt, Banjo		1										
	X00004476	TUBE ASM OIL RETURN LINE S4000		1										
	04.8A195	COVER, BREATHER HOLE IN BLOCK												
	000933010089	BOLT M10 X 20		4										
	5240110045	FLANGE		2										
	5501871280	GASKET		2										

- 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
 - 01.5B FLYWHEEL HOUSING ADAPTOR
 - 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**
 - 03.1A AIR CLEANER AND/OR ADAPTOR
 - 03.3C AIR INTAKE MANIFOLD
 - 03.5A TURBOCHARGER, INTERCOOLER AND AFTERCOOLER
 - 03.7 INTERCOOLER/AFTERCOOLER
- 04 LUBRICATING SYSTEM**
 - 04.1A OIL PUMP
 - 04.1B OIL DISTRIBUTION SYSTEM
 - 04.2A OIL FILTER
 - 04.4A OIL COOLER AND MARINE GEAR LINES
 - 04.6A DIPSTICK
 - 04.7A OIL PAN
 - 04.8A VENTILATING SYSTEM
- 05 COOLING SYSTEM**
 - 05.1 FRESH WATER PUMP
 - 05.2A WATER OUTLET MANIFOLD AND/OR ELBOW
 - 05.2B THERMOSTAT
 - 05.3B WATER CONNECTIONS
- 06 EXHAUST SYSTEM**
 - 06.1A EXHAUST MANIFOLD AND/OR CONNECTIONS
- 07 ELECTRICAL INSTRUMENTS**
 - 07.1A BATTERY, CHARGING GENERATOR
 - 07.3A STARTING MOTOR
- 11 ENGINE MOUNTING**
 - 11.1A ENGINE MOUNTING AND BASE

05.1 FRESH WATER PUMP				TYPES									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	3 6 9	3 7 1								
05.1001		PUMP ASSY., FRESH WATER											
		<i>A PUMP KIT INCLUDES PUMP ASSY. AND ITEMS IN 5.1010.</i>											
	000125013012	WASHER A13		3	3								
	000931012143	BOLT, M12 X 70 8.8		1	1								
	000931012176	BOLT, M12 X 150 8.8			1								
	000933012051	BOLT, M12 X 50 8.8		2	1								
	000934012008	NUT, HEX M12		1	1								
	0049976736	VALVE, DRAIN		1									
	23523200	(R) PUMP KIT, WATER HI TEMP CLG CIRCUIT			1								
	5262000501	PUMP ASSY., WATER HI TEMP	NS										
	700429120002	SEAL RING, 120 X 6	1										
	700429130003	SEAL RING, 130 X 5	1										
	5272002101	PUMP ASSY., WTR LOW TEMP CLG CIRCUIT; USE: 5272003101	NS										
	5272003101			1									
05.1010		GASKET, FRESH WATER PUMP											
	700429130003	SEAL RING, 130 X 5		1									

FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	TYPES											
				2 5 6	2 5 9	2 7 0									
		05.2A WATER OUTLET MANIFOLD AND/OR ELBOW													
	05.2A001	MANIFOLD, WATER OUTLET													
	000931010315	BOLT, M10 X 100				14									
	5242030408	MANIFOLD, WATER L BANK CONNECTOR				1									
	5242030508	MANIFOLD, WATER R BANK CONNECTOR				1									
	5242032001					1									
	5242032101					2									
	5242032201					1									
	5242032301					1									
	5242032401					1									
	5599920201	SPACER, 12MM X 20MM				1									
	735210014000					1									
	05.2A010	GASKET, WATER OUTLET MANIFOLD													
	700429024000	SEAL RING, 24 X 5				12									
	05.2A041	TUBE ASSY., WATER MANIFOLD VENT													
	000125010524	WASHER A10.5				1									
	000908012003	PLUG M 12 X 1.5 DIN 908 4.6 DBL 8451.21				1									
	000908014001	PLUG, M14 X 1.5				4									
	000933010094	BOLT, M10 X 40 8.8				1									
	000933010198	BOLT, M10 X 16 8.8				1									
	000934008008	NUT, HEX M8				2									
	007349008002	WASHER				2									
	007603012111	WASHER, A12 X 15.5 COPPER				3									
	007603014102	WASHER, A14 X 18 COPPER				11									
	007603018101	007603018101				2									
	304017008079	BOLT, M8 X 20 8.8				1									
	304017008081	BOLT, M8 X 25 8.8 LG				5									
	304017008083	BOLT, M8 X 30				1									
	304017008086	BOLT, M8 X 45 8.8				1									
	304017008089	BOLT, M8 X 60.0				2									
	5240940153	SPACER				1									
	5241870840	BRACKET				1									
	5242000418	TUBE ASSY., VENT 90 DEG M14 X 1.5				2									
	5242002058	LINE, VENT				1									
	5242002158	LINE, VENT				1									
	5242002358	LINE, VENT				1									
	5242002751	TUBE				1									
	5242002851	TUBE				1									
	5242002951	TUBE				1									
	5242003551	TUBE				1									
	5242003651	TUBE				1									
	5242003751	TUBE				1									
	5242003851	TUBE				1									

				TYPES									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.										
				2	2	2							
		05.2A WATER OUTLET MANIFOLD AND/OR ELBOW		5	5	7							
				6	9	0							
	05.2A041	TUBE ASSY., WATER MANIFOLD VENT											
	5242004151	TUBE			1								
	5242004251	TUBE			1								
	5242004351	TUBE			1								
	5242004451	TUBE			1								
	5242004651	TUBE			1								
	5242005351	TUBE			1								
	5242009951	TUBE			1								
	5500784541	STRAP, 65 X 20 X 4			3								
	5502030143	BRACKET			2								
	5502030529	BLOCK, DEAERATION JUNCTION			2								
	5511530050	SPACER, 10MM X 18MM			1								
	5569970574	FITTING, TEE M14 X 1.5			6								
	5801533240	BRACKET L			1								
	700325012100	CLAMP, HALF TUBE			11								
	700325012104	CLAMP, HALF TUBE 2/1			4								
	700325012111	CLAMP, HALF TUBE			2								
	700325012200	CLAMP, HALF TUBE			1								
	700325012202	CLAMP, HALF TUBE			4								
	700327008000	GROMMET, M8			15								
	735211008001	UNION, SCREW TYPE			5								
	735211010000	UNION			2								
	8381594740	BRACKET			1								
	915005010000	CONE, SEALING			2								
	915006006000	UNION			7								
	915013006002	UNION			4								
	05.2A043	SEAL, WATER OUTLET MANIFOLD											
	700429083000	SEAL RING, 83 X 5				2							
	700429085002	SEAL RING, 85 X 6				8							
	05.2A045	TUBE, WATER OUTLET MANIFOLD											
	000125010524	WASHER A10.5		3		4							
	000125013012	WASHER A13		2									
	000908030002	PLUG SCREW M30 X 1.5 STL		1									
	000931010283	BOLT, M10 1.5 X 75				10							
	000931010292	BOLT, M10 X 110 8.8				4							
	000933010094	BOLT, M10 X 40 8.8		3		4							
	000933012051	BOLT, M12 X 50 8.8		2									
	0049976736	VALVE, DRAIN		1									
	007603018101	007603018101		2									
	007603030101	WASHER, A30 X 36 COPPER		1									
	5242000184	CONNECTING PIECE 25 X 20 M90CE S4000		1									
	5242001118	ELBOW ASSY., W/FLG 1460.D.		1									

				TYPES									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.										
				2	2	2							
		05.2A WATER OUTLET MANIFOLD AND/OR ELBOW		5	5	7							
				6	9	0							
	05.2A045	TUBE, WATER OUTLET MANIFOLD											
	5242030039	FLANGE				1							
	5242030139	FLANGE				2							
	5242030340	SUPPORT, MOUNTING HOLDER	1										
	5242032053	CONNECTOR, WATER TUBE 98 X 70				3							
	5242032253	TUBE, 98 X 240				1							
	700223010000	BOLT BANJO A12 MMN223 M91CE S2000	1										
	700429100000	O-RING, 100 X 5MMN429				3							
	700429100001	SEAL RING, 100 X 4				1							

				TYPES									
05.2B THERMOSTAT													
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	5 1 4	5 1 5	5 1 9							
	05.2B050	THERMOSTAT ASSY.											
	0052031875	ACTUATOR				4							
	05.2B060	SEAL, THERMOSTAT											
	05132155	SEAL			2								
	05.2B090	HOUSING, THERMOSTAT											
	000931008144	BOLT, M8 X 120			1								
	000931008241	BOLT, M8 X 75 8.8			2								
	000931010308	BOLT, M10 X 50				1							
	000931010332	BOLT, M10 X 150				4							
	0052031675	THERMOSTAT			2								
	007349008002	WASHER			3								
	5242001516	HOUSING, THERMOSTAT HI TEMP				1							
	5242030680	GASKET			1								
	5242032873	HOUSING, THERMOSTAT			1								
	5319970832	PLUG, M22 X 1.5			1								
	700429072000	SEAL RING, 72 X 3			1								
	05.2B110	GASKET, THERMOSTAT HOUSING											
	0002034480	SEALING RING; USE: 05132155				NS							
	05132155	SEAL				4							
	700429070000	SEAL RING, 70 X 5				1							
	700429072000	SEAL RING, 72 X 3			1								
	700429100001	SEAL RING, 100 X 4				1							
	05.2B120	COVER, THERMOSTAT HOUSING											
	000931010283	BOLT, M10 1.5 X 75			6								
	5242030074	HSG COVER			1								
	5242030542	SPACER			1								
	5249900812	BOLT, M16 X 2 X 319.0			2								
	05.2B155	HOUSING, WATER DISTRIBUTION											
	000931010105	BOLT, M10 X 60 10.9		3									
	000931012143	BOLT, M12 X 70 8.8		5									
	000931016080	BOLT, M16 X 150		1									
	000931016125	BOLT, M16 X 180		10									
	000933012051	BOLT, M12 X 50 8.8		2									
	5242004416	HOUSING ASSY., WATER DISTRIBUTION		1									
	5242030080	GASKET		1									
	5242032722	ELBOW, COOLANT DISTRIBUTION HSG		1									
	5272030552	RESTRICTOR				1							
	700429042000	SEAL RING, 42 X 5		1									
	700429055001	SEAL RING, 55 X 5		1									
	700429070000	SEAL RING, 70 X 5		2									
	700429083000	SEAL RING, 83 X 5		4									

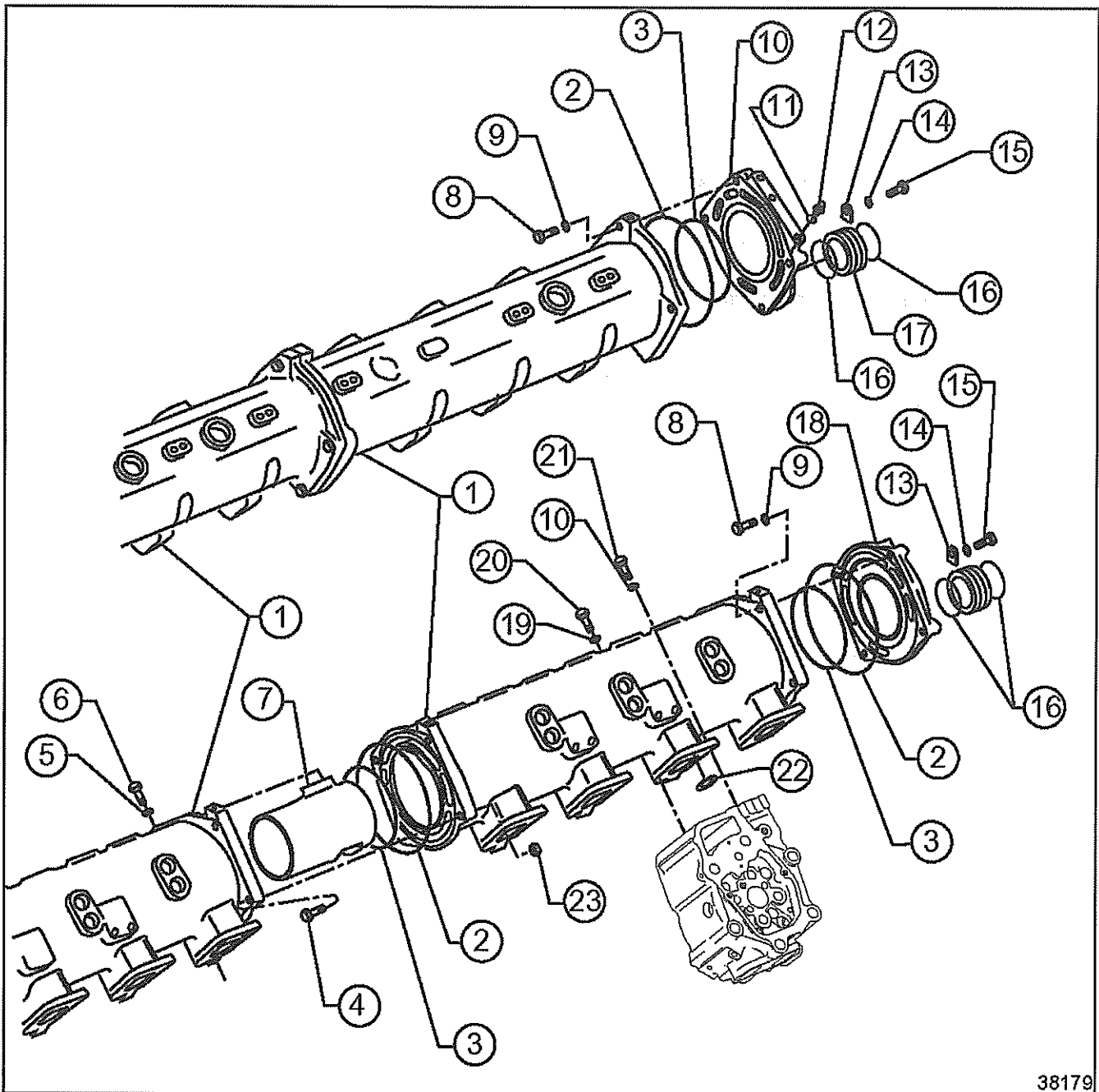
		05.2B THERMOSTAT		TYPES									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	5 1 4	5 1 5	5 1 9							
	05.2B155	HOUSING, WATER DISTRIBUTION											

05.3B WATER CONNECTIONS					TYPES									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.		6									
	05.3B329	TUBE, WATER PUMP INLET			2									
	000933010092	BOLT M10 X 30.0 LG			5									
	007603014102	WASHER, A14 X 18 COPPER			3									
	08929357	BOLT, M10 X 1.5 X 120 (12.9001)			2									
	5242030452	WASHER			6									
	5242030840	SUPPORT/CLAMP, COOL TUBE CAC			2									
	5249970078	COUPLING ASSY., RING			12									
	23525841	SLEEVE, RING COUPLING	1		7									
	23525842	COUPLING, RING	2											
	23525843	RETAINER, COUPLING RING	2											
	23525844	GASKET, SELF RETAINING RING COUPLING	2											
	5262000951	TUBE ASSY.			1									
	5262001051	TUBE ASSY.			1									
	5509970530	PLUG			4									
	700429072000	SEAL RING, 72 X 3			1									
	05.3B336	ELBOW, WATER PUMP OUTLET												
	000125010524	WASHER A10.5			3									
	000908014001	PLUG, M14 X 1.5			2									
	000933010092	BOLT M10 X 30.0 LG			3									
	007603014102	WASHER, A14 X 18 COPPER			2									
	007603018101	007603018101			4									
	11504571	BOLT, M10 X 1.5 X 65.0MM			1									
	5242000351	TUBE ASSY.,WATER TOP CAC			1									
	5242001852	TUBE ASSY.			1									
	5242006552	TUBE ASSY.			1									
	5242031040	CLAMP TUBE			2									
	5249900751	NUT, HEX			1									
	05.3B337	GASKET, WATER PUMP INLET AND OUTLET ELBOW												
	5272030080	GASKET			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
 - 01.5B FLYWHEEL HOUSING ADAPTOR
 - 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
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 - 03.1A AIR CLEANER AND/OR ADAPTOR
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 - 04.1B OIL DISTRIBUTION SYSTEM
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 - 04.6A DIPSTICK
 - 04.7A OIL PAN
 - 04.8A VENTILATING SYSTEM
- 05 COOLING SYSTEM**
 - 05.1 FRESH WATER PUMP
 - 05.2A WATER OUTLET MANIFOLD AND/OR ELBOW
 - 05.2B THERMOSTAT
 - 05.3B WATER CONNECTIONS
- 06 EXHAUST SYSTEM**
 - 06.1A EXHAUST MANIFOLD 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 06.1A

				TYPES									
06.1A EXHAUST MANIFOLD AND/OR CONNECTIONS													
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	8									
			1										
			2										
	06.1A001	MANIFOLD, EXHAUST											
	0001426157	RING, SEALING	4										
	08929357	BOLT, M10 X 1.5 X 120 (12.9001)	48										
	23511667	SPACER	48										
	5249900154	NUT, UNION	4										
	5261420104	PIPE, EXHAUST	2										
	5261420204	PIPE, EXHAUST	2										
	5261420304	PIPE, EXHAUST	2										
	06.1A010	GASKET, EXHAUST MANIFOLD											
	5241420580	GASKET, EXHAUST MANIFOLD	12										

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				TYPES									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.										
		07.1A BATTERY, CHARGING GENERATOR		2									
				6									
				7									
				2									
	07.1A001	GENERATOR ASSY.											
	19010182	GEN CHRГ AC 24V70A NG CW/CCW 21SI		1									
	23528697	BOLT, M12 1.75 X 60.0 LG		1									
	5146049	SPACER, .340" L. (3.4103)		1									
	5241511040	STRUT ALTERNATOR SUPPORT 119.7 X 112.0 S4000		1									
	07.1A507	DRIVE ASSY., GENERATOR											
	11509528	BOLT, M12 X 1.75 X 30 MM		2									
	23540903	(R)DRIVE ASSY., ACCESSORY ALTERNATOR		1									
	07.1A508	GASKET, GENERATOR DRIVE											
	700429135000	SEAL RING, 135 X 5		1									
	07.1A575	BELT, GENERATOR DRIVE											
	5249970192	BELT, ALTERNATOR (1029.5) 12-16V		1									
	07.1A580	STRAP, GENERATOR ADJUSTING											
	00103345	WASHER, 5/8"		2									
	00179882	BOLT, 1/2"-13X1 1/8"		1									
	11501055	NUT, M16X2.0		2									
	11505299	BOLT, M10 X 1.5 X 30.0 MM		2									
	23511669	LINK, ADJUSTING ROD		1									
	23511670	ROD, ALTERNATOR ADJUSTING M16 X 2 X 254		1									
	23511786	BOLT, M10 X 1.5 X 25.00MM (12.9001)		1									
	5132715	WASHER, .53"X.94"X.12" (1.3140)		3									
	5146538	STUD (2.32" L.)		1									
	07.1A585	GUARD, GENERATOR DRIVE BELT AND PULLEY											
	000933010094	BOLT, M10 X 40 8.8		6									
	23540675	WASHER, FLAT M10		6									
	5241540040	GUARD ALT BELT A-BANK INNER 70/100AMP S4000		1									
	5241540050	ISOLATOR ALTERNATOR BELT GUARD S4000		6									
	5241540140	GUARD ALT BELT A-BANK OUTER 70/100AMP S4000		1									
	07.1A587	BRACKET, GENERATOR DRIVE BELT AND PULLEY GUARD											
	23540903	(R)DRIVE ASSY., ACCESSORY ALTERNATOR		1									
	5241540376	BRACKET ALT GUARD A-BANK OUTER 70/100AMP S4000		1									
	07.1A595	BRACKET, GENERATOR MOUNTING											
	11503316	BOLT, M12 1.75 X 35.0		4									
	5241540276	BRACKET ALT GUARD A-BANK INNER 70/100AMP S4000		1									
	07.1A596	SUPPORT, GENERATOR BRACKET											
	000931012203	BOLT M12 X 170 DIN931 8.8 DBL8451.21		1									
	000934012008	NUT, HEX M12		1									

		TYPES										
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.									
		07.1A BATTERY, CHARGING GENERATOR	2									
			6									
			7									
			2									
	07.1A596	SUPPORT, GENERATOR BRACKET										
	11509795	BOLT M12 1.75 X 40.0 HEX FLG PHOS CTD	4									
	5241551927	BRACKET	1									

07.3A STARTING MOTOR				TYPES									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.										
	07.3A001	MOTOR ASSY., STARTING		4									
				3									
				5									
	000912016002	BOLT, M16 X 40		6									
	10479199	STARTER, R BANK 50 MT 24V; USE: 10479345		NS									
	10479200	STARTER, L BANK 50 MT 24V; USE: 10479346		NS									
	10479345			1									
	10479346			1									

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11.1A ENGINE MOUNTING AND BASE				TYPES									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.										
	11.1A075	BRACKET, ENGINE SUPPORT		9									
	000125010524	WASHER A10.5		5									
	000933010180	BOLT,M10 X 28 8.8		4									
	200433021000	WASHER 21 DIN433 S4000 M90CE		8									
	200933020004	BOLT, M20 X 200		8									
				16									
				16									
	11.1A090	SUPPORT, ENGINE FRONT TRUNNION MOUNTING											
	000007016104	PIN, DOWEL SOLID 6M X 32		8									
	700429192000	SEAL RING, 192 X 4		4									
	11.1A100	SUPPORT/BRACKET, ENGINE REAR											
	5242370202	BRACKET, ENGINE MTG		4									

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