DETROIT DIESEL

Custom Parts Catalog

ENGINE SERIAL NUMBER:	04D0228501
ENGINE SERIES NUMBER:	53MPC
ENGINE MODEL NUMBER:	50437001

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all information, engine modifications or subsequent engineering changes or enhancements may cause certain data to be superseded or rendered obsolete.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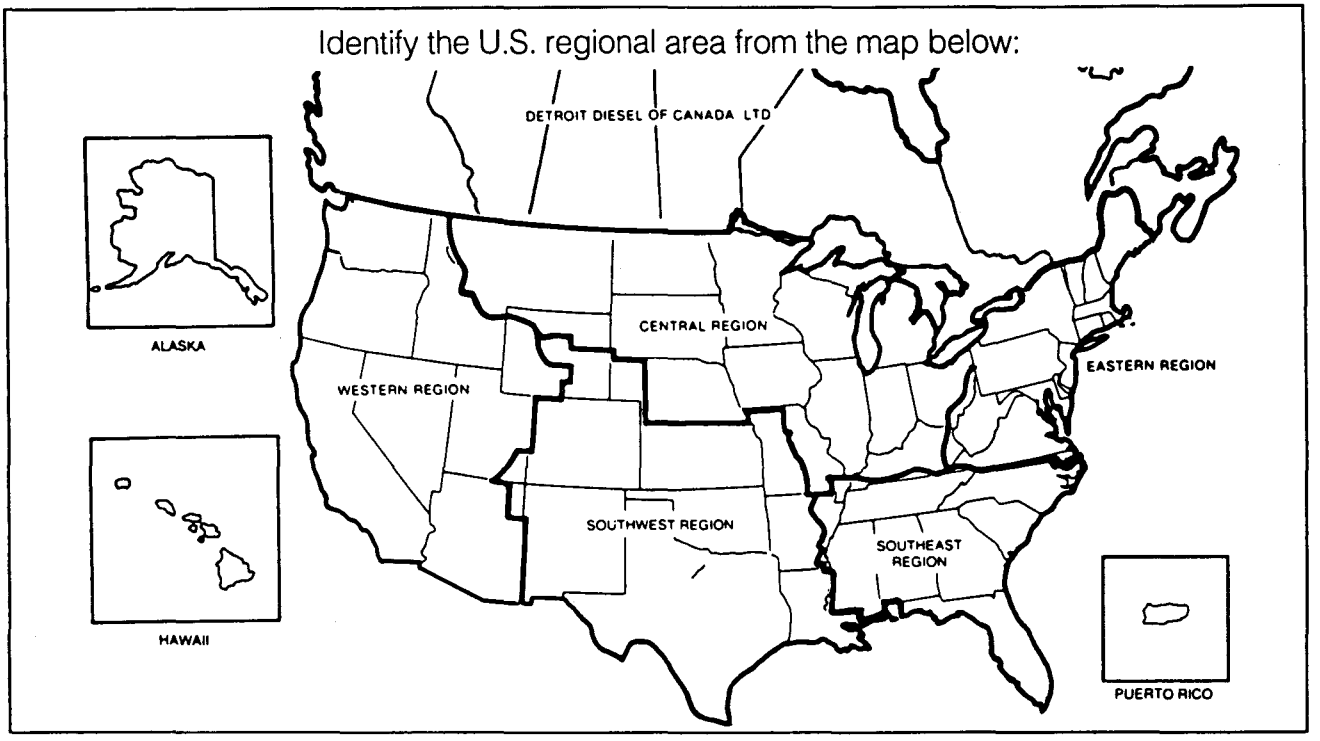

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DETROIT DIESEL

Custom Parts Catalog

ENGINE DESCRIPTION

SERIAL NUMBER: 04D0228501
SERIES NUMBER: 53MPC
MODEL NUMBER: 50437001

GROUP NOMENCLATURE

1.0000	ENGINE (less major assemblies)
1.1000	Cylinder Block
1.1000A	Air Box Drains
1.2000	Cylinder Head
1.2000A	Engine Lifter Bracket
1.3000	Crankshaft, Oil Seals and Stabilizers
1.3000A	Crankshaft Front Cover
1.3000B	Vibration Damper
1.3000C	Crankshaft Pulley
1.3000D	Crankshaft Pulley Belt
1.4000A	Flywheel
1.5000A	Flywheel Housing
1.5000B	Flywheel Housing Adaptor
1.6000	Connecting Rod and Piston
1.7000	Camshaft and Gear Train
1.7000A	Balance Weight Cover
1.7000B	Accessory Drive
1.8000	Valve Injector Operating Mechanism
1.8000A	Rocker Cover
2.0000	FUEL SYSTEM
2.1000A	Fuel Injector
2.1000B	Electronic Injector Controls
2.2000	Fuel Pump
2.2000A	Fuel Pump Drain
2.3000A	Fuel Filter and Strainer
2.3000A	Fuel Filter and Strainer (Twin and Quad)
2.4000	Fuel Manifold and/or Connections
2.4000A	Dual Fuel System
2.5000A	Fuel Lines and Fuel Cooler
2.5000A	Fuel Lines and Fuel Cooler (Twin and Quad)
2.6000A	Fuel Tank
2.6000B	Electric Governor
2.7000A	Mechanical Governor
2.8000A	Hydraulic Governor
2.9000	Injector Controls
2.9000	Injector Controls (Twin and Quad)
2.9000A	Throttle Controls
2.9000A	Throttle Controls (Twin and Quad)
3.0000	AIR SYSTEM
3.1000A	Air Cleaner and/or Adaptor
3.2000A	Air Silencer
3.3000A	Air Inlet Housing
3.3000C	Air Intake Manifold
3.4000	Blower and Drive
3.4000A	Blower Drive Shaft
3.4000B	Blcer End Plate Cover
3.5000A	Turbocharger, Intercooler, and Aftercooler
4.0000	LUBRICATING SYSTEM
4.1000A	Oil Pump
4.1000B	Oil Distribution System
4.1000C	Oil Pressure Regulator
4.2000A	Oil Filter
4.3000A	Oil Filter Lines
4.4000A	Oil Cooler and Marine Gear Lines
4.5000A	Oil Filler
4.6000A	Dipstick
4.7000A	Oil Pan
4.8000A	Ventilating System
5.0000	COOLING SYSTEM
5.1000	Fresh Water Pump
5.1000A	Fresh Water Pump Cover
5.2000A	Water Outlet Manifold and/or Elbow
5.2000B	Thermostat
5.2000C	Water Bypass Tube
5.3000A	Radiator
5.0000	COOLING SYSTEM (CONT'D)
5.3000B	Water Connections
5.4000A	Fan
5.4000B	Fan Shroud
5.5000A	Heat Exchanger or Keel Cooling
5.6000A	Raw Water Pump
5.7000A	Water Filter
6.0000	EXHAUST SYSTEM
6.1000A	Exhaust Manifold and/or Connections
6.2000A	Exhaust Muffler and/or Connections
7.0000	ELECTRICAL INSTRUMENTS
7.1000A	Battery Charging Generator
7.2000A	Battery Cables
7.2000B	Automatic Starting
7.2000B	Automatic Starting (Twin and Quad)
7.3000A	Starting Motor
7.4000A	Instruments
7.4000A	Instruments (Twin and Quad)
7.4000B	Tachometer Drive
7.4000B	Tachometer Drive (Twin and Quad)
7.4000C	Shutoff, Alarm and O.S. Governor
7.4000C	Shutoff, Alarm and O.S. Governor (Twin and Quad)
7.5000A	Power Generator
7.6000A	Control Cabinet
7.6000A	Control Cabinet (Twin and Quad)
7.7000A	Wiring Harness
7.8000A	Air Heater
7.8000A	Air Heater (Twin and Quad)
7.10000A	Hydraulic Governor Solenoid
8.0000	POWER TAKE-OFF
8.1000A	Power Take-off and/or Clutch
8.1000A	Power Take-off and/or Clutch (Twin and Quad)
8.3000A	Torque Converter
8.3000A	Torque Converter (Twin and Quad)
8.3000B	Transmission Lines
9.0000	TRANSMISSION AND PROPULSION
9.1000A	Hydraulic Marine Gear
9.1000A	Hydraulic Marine Gear (Twin and Quad)
9.2000A	Reverse and Reduction Gear (mechanical)
9.3000A	Power Transfer Gear
9.3000A	Power Transfer Gear (Twin and Quad)
9.4000	Transmission—Highway
9.7000	Transmission—Off-highway
9.9000	Transmission—Rail Car
10.0000	SHEET METAL
10.1000A	Engine Hood
11.0000	ENGINE MOUNTING
11.1000A	Engine Mounting and Base
11.1000A	Engine Mounting and Base (Twin and Quad)
12.0000	MISCELLANEOUS
12.2000A	Bilge Pump
12.3000A	Vacuum Pump
12.4000A	Air Compressor
12.5000A	Hydraulic Pump
12.6000A	Gasoline Starter
12.6000B	Air Starter
12.6000C	Cold Weather Starting Aid
12.6000D	Hydraulic Starter
12.6000E	Hydraulic Starter Accessories
12.8000A	Supplies
12.8000B	Fabrication Material
12.8000C	Miscellaneous Service Kits and Sets
12.8000D	Miscellaneous Service Parts

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ALPHABETICAL INDEX

PART NAME	GROUP NO.
*	
* SEE ENGINE MODEL.	
A	
ACCUMULATOR, AIR HEATER	7. 8415
ACCUMULATOR, HYDRAULIC STARTER	12.6570
ADAPTOR, ACCESSORY DRIVE	1. 7622
ADAPTOR, AIR CLEANER MOUNTING	3. 1085
ADAPTOR, AIR COMPRESSOR	12.4020
ADAPTOR, AIR INLET HOUSING	3. 3004
ADAPTOR, AIR SILENCER	3. 2015
ADAPTOR, CYLINDER HEAD GOVERNOR CONTROL LINK	2. 7830
ADAPTOR, CYLINDER HEAD GOVERNOR CONTROL LINK	2. 8945
ADAPTOR, DIPSTICK	4. 6020
ADAPTOR, DIPSTICK	4. 6030
ADAPTOR, FLANGE MOUNTED ALTERNATOR	7. 1588
ADAPTOR, FLYWHEEL HOUSING	1. 5130
ADAPTOR, FRESH WATER PUMP	5. 1005
ADAPTOR, FUEL PUMP DRIVE	2. 2260
ADAPTOR, HYDRAULIC MARINE GEAR OIL PUMP	9. 1477
ADAPTOR, HYDRAULIC PUMP	12.5020
ADAPTOR, MARINE GEAR HOUSING	9. 1007
ADAPTOR, OIL COOLER	4. 4110
ADAPTOR, OIL FILLER TUBE	4. 5005
ADAPTOR, OIL FILTER	8. 3873
ADAPTOR, OIL FILTER COVER	4. 2291
ADAPTOR, OIL FILTER TUBE (TO OIL COOLER ADAPTOR)	4. 3025
ADAPTOR, OIL FILTER TUBE-REMOTE MOUNTED FILTER	4. 3025
ADAPTOR, OVERSPEED TRIP GOVERNOR	7. 4635
ADAPTOR, POWER TAKE-OFF TO CLUTCH	8. 1905
ADAPTOR, TACHOMETER DRIVE CABLE	7. 4420
ADAPTOR, TACHOMETER DRIVE COVER	7. 4457
ADAPTOR, TACHOMETER MOUNTING	7. 4061
ADAPTOR, TORQUE CONVERTER DIPSTICK	8. 3841
ADAPTOR, WATER TEMPERATURE GAGE	7. 4084
ADAPTOR, WATER TEMPERATURE SWITCH	7. 4509
AIR CLEANER ASSY.	3. 1001
AMMETER, BATTERY CHARGING	7. 4015
ANTI-SQUEAK ENGINE HOOD	10.1070
ARM ASSY., EXHAUST VALVE ROCKER	1. 8060
ARM ASSY., INJECTOR ROCKER	1. 8080
ARM, FAN BELT IDLER PULLEY ADJUSTING	5. 4343
ARM, IDLER PULLEY ADJUSTING	5. 1201
B	
BAFFLE, AIR CLEANER	3. 1045
BAFFLE, BREATHER	4. 8025
BAFFLE, GENERATOR FAN	7. 1470
BAFFLE, MARINE GEAR HOUSING OIL	9. 1380
BAFFLE, MARINE GEAR OIL	9. 1380
BAFFLE, OIL PAN	4. 7045
BAFFLE, REDUCTION HOUSING OIL	9. 1386
BALL HEAD ASSY., GOVERNOR	2. 8560
BALL HEAD, HYDRAULIC OVERSPEED TRIP GOVERNOR	7. 4617
BASE KIT, GOVERNOR	2. 8690
BASE, ENGINE MOUNTING	11.1001
BASE, GOVERNOR	8. 3380
BEARING, ACCESSORY DRIVE	1. 7655
BEARING, AIR COMPRESSOR DRIVE SHAFT	12.4048
BEARING, BILGE PUMP SHAFT	12.2100
BEARING, BLOWER ROTOR FRONT	3. 4040
B	
BEARING, BLOWER ROTOR REAR	3. 4060
BEARING, CAMSHAFT END	1. 7010
BEARING, CLUTCH DRIVE SHAFT	8. 1680
BEARING, CLUTCH PILOT	1. 4040
BEARING, CLUTCH PILOT	8. 1450
BEARING, CLUTCH RELEASE	8. 1290
BEARING, CLUTCH SHAFT	9. 1033
BEARING, CRANKSHAFT FRONT SUPPORT	4. 1219
BEARING, FAN BELT IDLER PULLEY	5. 4332
BEARING, FAN SHAFT	5. 4110
BEARING, FRESH WATER PUMP	5. 1070
BEARING, FRESH WATER PUMP IDLER PUMP IDLER PULLEY	5. 1202
BEARING, GENERATOR DRIVE	7. 1535
BEARING, GOVERNOR DRIVE THRUST	2. 8830
BEARING, GOVERNOR DRIVEN SHAFT	2. 8810
BEARING, GOVERNOR OPERATING SHAFT	8. 3410
BEARING, GOVERNOR OPERATING SHAFT-LOWER	2. 7270
BEARING, GOVERNOR OPERATING SHAFT-UPPER	2. 7260
BEARING, GOVERNOR PILOT VALVE PLUNGER THRUST	2. 8610
BEARING, GOVERNOR RISER THRUST	8. 3425
BEARING, GOVERNOR ROCKER SHAFT	8. 3440
BEARING, GOVERNOR THROTTLE SHAFT	2. 7100
BEARING, GOVERNOR VARIABLE SPEED SPRING LEVER	2. 7732
BEARING, GOVERNOR VARIABLE SPEED SPRING LEVER SHAFT	2. 7712
BEARING, GOVERNOR WEIGHT RISER THRUST	2. 7460
BEARING, GOVERNOR WEIGHT SHAFT END	2. 7470
BEARING, HYDRAULIC STARTER END	12.6540
BEARING, HYDRAULIC STARTER ENGINE PUMP	12.6602
BEARING, HYDRAULIC STARTER ENGINE PUMP PISTON	12.6610
BEARING, IDLER GEAR	1. 7225
BEARING, MARINE GEAR INPUT SHAFT	9. 1027
BEARING, OUTPUT SHAFT	9. 1097
BEARING, OVERSPEED TRIP GOVERNOR OPERATING SHAFT	7. 4647
BEARING, PISTON PIN	1. 6142
BEARING, PLANETARY GEAR	9. 1087
BEARING, RAW WATER PUMP	5. 6130
BEARING, REDUCTION GEAR DRIVE SHAFT PILOT	9. 1345
BEARING, REDUCTION GEAR DRIVE SHAFT THRUST	9. 1350
BEARING, ROTOR ASSY. SHAFT	3. 5027
BEARING, THRUST CLUTCH HOUSING GEAR	9. 1041
BELL CRANK ASSY., GOVERNOR OPERATING	2. 8965
BELL CRANK, GOVERNOR TO INJECTOR LINK	2. 7823
BELL, ALARM SYSTEM	7. 4513
BELLOWS ASSY., AIR SHUTDOWN	3. 4414
BELT, ACCESSORY DRIVE	1. 7625
BELT, AIR COMPRESSOR DRIVE	12.4045
BELT, CRANKSHAFT PULLEY DRIVE	1. 3320
BELT, FRESH WATER PUMP DRIVE	5. 1215
BELT, GENERATOR DRIVE	7. 1575
BELT, HYDRAULIC STARTER ENGINE PUMP DRIVE	12.6676
BELT, VACUUM PUMP DRIVE	12.3030
BLADE, FAN	5. 4010
BLADE, FAN HIGH LOW AND CRANKSHAFT MOUNTED	5. 4010
BLOCK, CYLINDER	1. 1001
BLOCK, FUEL SYSTEM JUNCTION	2. 5250
BLOCK, GOVERNOR MOTOR TERMINAL	2. 8189
BLOCK, INSTRUMENT PANEL FUSE	7. 4135
BLOWER	3. 4000
BLOWER ASSY.	3. 4001

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ALPHABETICAL INDEX

PART NAME	GROUP NO.
B	
BLOWER DRIVE SHAFT	3. 4000A
BLOWER KIT, INSTALLATION	3. 4003
BLOWER KIT, REPAIR	3. 4005
BODY ASSY., INJECTOR	2. 1020
BODY ASSY., MASTER CYLINDER	12.6810
BODY, AIR CLEANER	3. 1030
BODY, AIR HEATER	7. 8030
BODY, BILGE PUMP	12.2010
BODY, BREATHER OR SEPARATOR	4. 8050
BODY, FRESH WATER PUMP	5. 1030
BODY, FUEL PUMP	2. 2010
BODY, GOVERNOR	8. 3370
BODY, HYDRAULIC STARTER CONTROL VALVE	12.6517
BODY, HYDRAULIC STARTER ENGINE PUMP	12.6595
BODY, HYDRAULIC STARTER HAND PUMP	12.6633
BODY, OIL PUMP	4. 1040
BODY, WATER FILTER	5. 7013
BOLT, AIR CLEANER ASSY.	3. 1070
BOLT, CRANKSHAFT MAIN BEARING CAP	1. 3140
BOLT, ROCKER COVER	1. 8460
BOOT, GOVERNOR TO INJECTOR LINK	2. 7834
BOOT, HYDRAULIC STARTER HAND PUMP CAM	12.6645
BOOT, INJECTOR CONTROL TUBE LINK	2. 8950
BRACKET ASSY., TURBOCHARGER MOUNTING	3. 5300
BRACKET, ACCESSORY DRIVE	1. 7607
BRACKET, ACCESSORY MOUNTING	1. 7609
BRACKET, AIR CLEANER MOUNTING	3. 1230
BRACKET, AIR COMPRESSOR MOUNTING	12.4010
BRACKET, AIR HEATER COIL	7. 8090
BRACKET, AIR HEATER PUMP AND VALVE	7. 8203
BRACKET, AIR SHUTOFF SOLENOID	7. 4530
BRACKET, AIR SHUTOFF VALVE CONTROL	3. 3280
BRACKET, BREATHER EXTENSION PIPE	4. 8183
BRACKET, CONVERTER OIL FILTER MOUNTING	8. 3880
BRACKET, CYLINDER THROTTLE DELAY ROCKER SHAFT	2. 9030
BRACKET, DRAIN TANK MOUNTING	1. 1240
BRACKET, ENGINE LIFTER-FRONT	1. 2070
BRACKET, ENGINE LIFTER-REAR	1. 2080
BRACKET, ENGINE SUPPORT	11.1075
BRACKET, EXPANSION TANK INLET CONNECTION	5. 3315
BRACKET, FAN BELT IDLER PULLEY	5. 4337
BRACKET, FAN BELT IDLER PULLEY ADJUSTING ARM STOP	5. 4346
BRACKET, FAN BELT IDLER PULLEY SPRING	5. 4355
BRACKET, FAN SHAFT	5. 4090
BRACKET, FILTER TO CYLINDER HEAD CLIP	2. 5190
BRACKET, FRESH WATER PUMP IDLER PULLEY	5. 1205
BRACKET, FUEL DRAIN CLIP	2. 5230
BRACKET, FUEL FILTER MOUNTING	2. 3530
BRACKET, FUEL PRIMER	12.6658
BRACKET, FUEL STRAINER MOUNTING	2. 3260
BRACKET, GENERATOR ADJUSTING STRAP	7. 1582
BRACKET, GENERATOR DRIVE BELT AND PULLEY GUARD	7. 1587
BRACKET, GENERATOR MOUNTING	7. 1595
BRACKET, GENERATOR VOLTAGE REGULATOR MOUNTING	7. 1606
BRACKET, GOVERNOR	2. 8920
BRACKET, GOVERNOR AND TRANSMISSION CONTROL MT	2. 9920
BRACKET, GOVERNOR CONTROL RETRACTING SPRING	2. 9406
BRACKET, GOVERNOR CONTROL SHAFT REAR	2. 9220
BRACKET, GOVERNOR SOLENOID VALVE MOUNTING	2. 7922
BRACKET, GOVERNOR SPEED ADJUSTING LEVER	2. 8440
B	
BRACKET, GOVERNOR SPEED ADJUSTING SHAFT	8. 3455
BRACKET, GOVERNOR THROTTLE SPEED ADJUSTING SHAFT	2. 7172
BRACKET, GOVERNOR TO INJECTOR LINK BELL CRANK	2. 7821
BRACKET, HEAT EXCHANGER MOUNTING	5. 5070
BRACKET, HEAT EXCHANGER RAW WATER INLET TUBE CLIP	5. 5405
BRACKET, HYDRAULIC STARTER ENGINE PUMP	12.6670
BRACKET, HYDRAULIC STARTER HAND PUMP	12.6684
BRACKET, INJECTOR CONTROL TUBE	2. 9003
BRACKET, LOW OIL PRESSURE SWITCH	4. 2495
BRACKET, OIL COOLER HOUSING SUPPORT	4. 4100
BRACKET, OIL FILLER TUBE CLAMP	4. 5004
BRACKET, OIL FILTER LINE CLIP	4. 3050
BRACKET, OIL FILTER MOUNTING	2. 8995
BRACKET, OIL FILTER MOUNTING	4. 2440
BRACKET, OIL PAN DRAIN TUBE	4. 7112
BRACKET, OIL PUMP SCREEN SUPPORT	4. 1540
BRACKET, OVERSPEED VALVE MOUNTING	7. 4742
BRACKET, RADIATOR MOUNTING	5. 3260
BRACKET, RAW WATER PUMP MOUNTING	5. 6380
BRACKET, REVERSE GEAR MOUNTING	9. 1011
BRACKET, ROCKER SHAFT	1. 8170
BRACKET, SOLENOID VALVE MOUNTING	7. 4670
BRACKET, STARING CONTROL ROD	7. 4567
BRACKET, STARTING AID	12.6391
BRACKET, THROTTLE BOOSTER SPRING	2. 7975
BRACKET, THROTTLE BOOSTER SPRING	2. 9344
BRACKET, THROTTLE CONTROL CROSS SHAFT-ENGINE LIFTER	2. 9305
BRACKET, THROTTLE CONTROL KNOB SHAFT	2. 9150
BRACKET, THROTTLE CONTROL SHAFT TO HEAD	2. 9275
BRACKET, THROTTLE CONTROL SOLENOID	2. 9357
BRACKET, TORQUE CONVERTER OUTPUT SHAFT GOVERNOR	8. 3083
BRACKET, TRANSMISSION CABLE	2. 9960
BRACKET, TRANSMISSION CABLE MT	2. 9960
BRACKET, TURBOCHARGER MOUNTING	3. 5300
BRACKET, TURBOCHARGER SUPPORT	3. 5002
BRACKET, WATER FILTER MOUNTING	5. 7080
BRACKET, WATER HEATER	12.6406
BREATHER ASSY.	4. 8045
BREATHER, MARINE GEAR	9. 1840
BRIDGE, EXHAUST VALVE	1. 8343
BUSHING AND SCREEN ASSY., STARTING AID TANK AND STRAINER	12.6363
BUSHING INJECTOR ROCKER ARM-LARGE	1. 8110
BUSHING, BILGE PUMP SHAFT	12.2090
BUSHING, CONNECTING ROD PISTON PIN	1. 6040
BUSHING, GOVERNOR SPEED ADJUSTING SHAFT SLEEVE	2. 8364
BUSHING, GOVERNOR SPEED ADJUSTING TERMINAL SLEEVE	2. 8483
BUSHING, GOVERNOR TO INJECTOR LINK BELL CRANK	2. 7825
BUSHING, INJECTOR AND EXHAUST VALVE ROCKER ARM CLEVIS	1. 8140
BUSHING, INJECTOR AND EXHAUST VALVE ROCKER ARM-SMALL	1. 8120
BUSHING, MUFFLER PIPE	6. 2005
BUSHING, OIL PUMP BODY	4. 1050
BUSHING, OIL PUMP COVER	4. 1240
BUSHING, OIL PUMP DRIVEN GEAR	4. 1210
BUSHING, OVERSPEED TRIP GOVERNOR HOUSING	7. 4615
BUSHING, PISTON PIN	1. 6145

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ALPHABETICAL INDEX

PART NAME	GROUP NO.
B	
BUSHING, STARTING MOTOR CABLE INSULATION	11.1035
BUSHING, THROTTLE CONTROL SHAFT BRACKET	2. 9160
BUSHING, VERNIER THROTTLE CONTROL WORM	2. 9142
BUTTON, VERNIER THROTTLE CONTROL LOCK	2. 9145
C	
CABINET, POWER GENERATOR CONTROL	7. 6001
CABLE ASSY., TRANSMISSION CONTROL	2. 9940
CABLE ASSY., TRANSMISSION CONTROL MT	2. 9940
CABLE, FLEXIBLE SHAFT	12.8500
CABLE, GENERATOR TO CONTROL CABINET	7. 7220
CABLE, TACHOMETER DRIVE FLEXIBLE	7. 4408
CAGE, INJECTOR CHECK VALVE	2. 1205
CAGE, INJECTOR VALVE	2. 1265
CAGE, INJECTOR VALVE SPRING	2. 1257
CAGE, PLANETARY GEAR	9. 1081
CAM, AIR SHUTDOWN SHAFT	3. 4424
CAM, BLOWER DRIVE COUPLING	3. 4390
CAM, FUEL MODULATING	2. 9085
CAM, HYDRAULIC STARTER HAND PUMP	12.6643
CAM, NEUTRAL	9. 1157
CAM, OVERSPEED VALVE ADJUSTING	7. 4740
CAM, RAW WATER PUMP BODY OFFSET	5. 6035
CAMSHAFT AND GEAR TRAIN	1. 7000
CAMSHAFT ASSY.	1. 7001
CAP AND SPACER, FAN HUB	5. 4180
CAP, CRANKSHAFT MAIN BEARING	1. 3110
CAP, EXHAUST PIPE	6. 2093
CAP, EXHAUST VALVE SPRING	1. 8350
CAP, EXPANSION TANK	5. 5140
CAP, FUEL TANK	2. 6030
CAP, GOVERNOR LOW SPEED SPRING	2. 7580
CAP, GOVERNOR SPEED ADJUSTING SHAFT SPACER	2. 8365
CAP, GOVERNOR WEIGHT HOUSING	2. 7510
CAP, HYDRAULIC STARTER ACCUMULATOR	12.6573
CAP, HYDRAULIC STARTER RESERVOIR	12.6555
CAP, INJECTOR FILTER	2. 1130
CAP, INJECTOR SHIPPING	2. 1150
CAP, OIL FILLER	4. 5010
CAP, OVERSPEED TRIP GOVERNOR SPRING	7. 4653
CAP, RADIATOR FILLER	5. 3120
CAP, REDUCTION GEAR OIL FILLER	9. 1415
CAP, STARTING AID TANK PRESSURE	12.6360
CARRIER, FLYWHEEL PILOT BEARING	1. 4055
CARRIER, GOVERNOR WEIGHT SHAFT	2. 7370
CARTON ENGINE PART	12.8050
CASING, FLEXIBLE SHAFT	12.8502
CATCH, ENGINE HOOD HOLD DOWN CLAMP	10.1050
CATCH, ENGINE HOOD SIDE PANEL	10.1057
CHAIN, OIL FILLER CAP	4. 5030
CLAMP, AIR COMPRESSOR WATER TUBE HOSE	12.4097
CLAMP, AIR INLET PIPE HOSE	3. 1280
CLAMP, AIR SILENCER OUTLET ELBOW HOSE	3. 2024
CLAMP, AMMETER	7. 4020
CLAMP, BLOWER DRIVE COVER PACKING	3. 4227
CLAMP, BLOWER DRIVE COVER SEAL	3. 4227
CLAMP, BLOWER VALVE (MINI-BYPASS)	3. 4146
CLAMP, BREATHER EXTENSION PIPE HOSE	4. 8180
CLAMP, EXHAUST MANIFOLD FRESH WATER INLET HOSE	5. 3434
CLAMP, EXHAUST MANIFOLD FRESH WATER OUTLET HOSE	5. 3445
CLAMP, FUEL PRESSURE GAGE	7. 4093
CLAMP, HEAT EXCHANGER FRESH WATER INLET HOSE	5. 3305
C	
CLAMP, HEAT EXCHANGER TO WATER PUMP HOSE	5. 3341
CLAMP, INJECTOR	2. 1270
CLAMP, OIL COOLER WATER INLET	4. 4214
CLAMP, OIL COOLER WATER INLET HOSE	4. 4214
CLAMP, OIL PRESSURE GAGE	7. 4072
CLAMP, OIL TEMPERATURE GAGE	7. 4078
CLAMP, RADIATOR INLET HOSE	5. 3300
CLAMP, RADIATOR OUTLET HOSE	5. 3340
CLAMP, TACHOMETER	7. 4065
CLAMP, TACHOMETER DRIVE ADAPTOR RETAINING	7. 4433
CLAMP, WATER TEMPERATURE GAGE	7. 4082
CLEVIS, INJECTOR AND EXHAUST VALVE ROCKER ARM	1. 8130
CLIP, AIR BOX DRAIN TUBE	1. 1145
CLIP, AIR COMPRESSOR BOOSTER INLET TUBE AND ELBOW ASSY.	12.4377
CLIP, AIR COMPRESSOR LUBE OIL TUBE	12.4080
CLIP, AIR COMPRESSOR WATER TUBE	12.4095
CLIP, AIR HEATER INLET AND OUTLET TUBE	7. 8320
CLIP, AIR INLET HOUSING SHUTDOWN CONTROL WIRE	3. 3270
CLIP, BREATHER TUBE	4. 8040
CLIP, CYLINDER HEAD INLET	2. 5180
CLIP, DIPSTICK	4. 6040
CLIP, DIPSTICK TORQUE CONVERTER	8. 3842
CLIP, EXPANSION TANK OVERFLOW TUBE	5. 5200
CLIP, FILTER OUTLET TUBE	2. 5156
CLIP, FILTER TO FUEL MANIFOLD TUBE	2. 5155
CLIP, FUEL COOLER INLET LINES	2. 5216
CLIP, FUEL DRAIN	2. 5220
CLIP, FUEL DRAIN CROSSOVER	2. 5207
CLIP, FUEL PUMP DRAIN TUBE	2. 2320
CLIP, FUEL PUMP TO FILTER HOSE	2. 5120
CLIP, FUEL SUPPLY CROSSOVER TUBE	2. 5164
CLIP, FUEL SUPPLY TO STRAINER	2. 5020
CLIP, FUEL SYSTEM FLEXIBLE HOSE	12.8554
CLIP, GOVERNOR CONTROL WIRE TUBE	2. 9428
CLIP, GOVERNOR THROTTLE LEVER RETURN SPRING	2. 7912
CLIP, HEAT EXCHANGER RAW WATER INLET TUBE	5. 5390
CLIP, OIL COOLER LINES	4. 4345
CLIP, OIL COOLER TO CONVERTER TUBE	8. 3819
CLIP, OIL FILTER LINE	4. 3045
CLIP, OIL PAN DRAIN TUBE	4. 7101
CLIP, OIL PRESSURE GAGE TUBE	7. 4076
CLIP, SHUTDOWN RESET LEVER ROD	3. 3127
CLIP, SOLENOID VALVE TUBE	2. 7928
CLIP, STRAINER TO FUEL PUMP	2. 5070
CLIP, TRANSMISSION	2. 9950
CLIP, TRANSMISSION CABLE MT	2. 9950
CLIP, TURBOCHARGER OIL RETURN TUBE	3. 5507
CLIP, TURBOCHARGER OIL SUPPLY TUBE	3. 5502
CLIP, WATER BYPASS TUBE	5. 2190
CLIP, WIRING HARNESS	7. 7010
CLUTCH ASSY.	8. 1017
CLUTCH, HYDRAULIC STARTER DRIVE	12.6506
COIL ASSY., AIR HEATER	7. 8080
COLD WEATHER STARTING AID KIT	12.6301
COLLAR, CLUTCH RELEASE	8. 1295
COLLAR, GOVERNOR DRIVE SHAFT	2. 8620
COLLAR, THROTTLE CONTROL CROSS SHAFT	2. 9330
COLLAR, TURBOCHARGER ROTOR THRUST	3. 5034
COMPRESSOR ASSY., AIR	12.4001
CONE, CRANKSHAFT PULLEY	1. 3295

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ALPHABETICAL INDEX

PART NAME	GROUP NO.
C	
CONE, POWER TAKE-OFF ADAPTOR	8. 1907
CONE, RAW WATER PUMP CLUTCH	5. 6600
CONE, VIBRATION DAMPER-FRONT	1. 3240
CONE, VIBRATION DAMPER-REAR	1. 3250
CONNECTING ROD AND PISTON	1. 6000
CONNECTING ROD ASSY.	1. 6001
CONNECTION, EXPANSION TANK INLET	5. 3313
CONNECTION, FLEXIBLE EXHAUST	6. 2095
CONNECTION, HEAT EXCHANGER INLET	5. 3314
CONNECTION, HEAT EXCHANGER WATER OUTLET	5. 3312
CONNECTION, OIL COOLER WATER INLET	4. 4211
CONNECTION, OIL COOLER WATER INLET	5. 3350
CONNECTION, RADIATOR INLET	5. 3270
CONNECTION, RADIATOR OUTLET	5. 3310
CONNECTION, RAW WATER PUMP INLET AT GEAR BOX	5. 6500
CONNECTION, TACHOMETER SHAFT	8. 3475
CONNECTION, THERMOSTAT HOUSING WATER OUTLET	5. 3275
CONNECTIONS, TURBOCHARGER EXHAUST INLET	3. 5305
CONNECTOR, EXHAUST MANIFOLD FRESH WATER INLET	5. 3430
CONNECTOR, FUEL PIPE	2. 4030
CONNECTOR, TURBOCHARGER EXHAUST INLET	3. 5305
CONTAINER, INJECTOR SHIPPING	2. 1010
CONTROL, VERNIER THROTTLE	2. 9133
CONVERSION KIT, MARINE GEAR	9. 1017
CONVERSION KIT, MARINE GEAR DRIVE RUBBER BLOCK	9. 1016
CONVERTER ASSY., TORQUE	8. 3001
COOLER ASSY., FUEL	2. 5212
CORE ASSY., OIL COOLER	4. 4001
CORE, HEAT EXCHANGER	5. 5003
CORE, OIL COOLER-ENGINE	4. 4001
COUPLING ASSY., POWER TAKE-OFF	8. 1910
COUPLING, ACCESSORY DRIVE	1. 7635
COUPLING, AIR COMPRESSOR DRIVE	12.4050
COUPLING, BLOWER DRIVE	3. 4370
COUPLING, ENGINE DRIVE SHAFT FLEXIBLE	1. 4060
COUPLING, FUEL PUMP DRIVE	2. 2230
COUPLING, GENERATOR DRIVE	7. 1560
COUPLING, GENERATOR DRIVE-INNER	7. 1560
COUPLING, HYDRAULIC PUMP DRIVE	12.5010
COUPLING, MARINE GEAR DRIVE	9. 1006
COUPLING, PROPELLER DRIVE SHAFT	9. 1440
COUPLING, RAW WATER PUMP DRIVE	5. 6420
COUPLING, THROTTLE CONTROL SHAFT	2. 9190
COVER ASSY., DRIVE	1. 7700
COVER ASSY., GOVERNOR-COMPLETE	2. 7045
COVER ASSY., GOVERNOR-LESS SHAFT AND LEVERS	2. 7050
COVER ASSY., ROCKER	1. 8450
COVER, AIR CLEANER	3. 1020
COVER, AIR SHUTDOWN HOUSING	3. 4418
COVER, AIR SHUTOFF CONTROL HOUSING	7. 4553
COVER, BALANCE WEIGHT	1. 7470
COVER, BLOWER HOUSING END PLATE	3. 4180
COVER, BREATHER HOLE-IN BLOCK	4. 8195
COVER, CLUTCH HOUSING INSPECTION HOLE	8. 1060
COVER, CLUTCH RELEASE YOKE LUBRICATION	8. 1318
COVER, CRANKSHAFT FRONT	1. 3160
COVER, CYLINDER BLOCK HAND HOLE	1. 1040
COVER, CYLINDER BLOCK OIL HOLE	1. 1065
COVER, CYLINDER BLOCK WATER HOLE	1. 1060
COVER, CYLINDER BLOCK WATER HOLE COVER	12.6409
COVER, CYLINDER HEAD WATER HOLE	1. 2043
COVER, ENGINE FRONT - LOWER	4. 1218

PART NAME	GROUP NO.
C	
COVER, ENGINE FRONT-LOWER	1. 3162
COVER, ENGINE FRONT-LOWER	4. 1218
COVER, ENGINE FRONT-UPPER	1. 3161
COVER, FAST IDLE AIR CYLINDER	2. 7855
COVER, FLYWHEEL HOUSING INSPECTION HOLE	1. 5080
COVER, FLYWHEEL HOUSING LARGE HOLE	1. 5030
COVER, FLYWHEEL HOUSING SMALL HOLE	1. 5050
COVER, FRESH WATER PUMP BODY	5. 1031
COVER, FUEL FILTER	2. 3390
COVER, FUEL PUMP	2. 2030
COVER, FUEL STRAINER	2. 3080
COVER, GOVERNOR	2. 8040
COVER, GOVERNOR BREATHER HOLE	2. 7005
COVER, GOVERNOR FUEL ROD SPRING	2. 8085
COVER, GOVERNOR HIGH SPEED SPRING	2. 7630
COVER, GOVERNOR VARIABLE SPEED SPRING HOUSING	2. 7692
COVER, GOVERNOR WEIGHT HOUSING	2. 7520
COVER, HEAT EXCHANGER	5. 5030
COVER, HEAT EXCHANGER TANK OUTLET	5. 3333
COVER, HYDRAULIC STARTER END	12.6543
COVER, INJECTOR CONTROL AIR CYLINDER	2. 9092
COVER, INSTRUMENT PANEL	7. 4012
COVER, MASTER CYLINDER RESERVOIR	12.6812
COVER, OIL COOLER HOUSING	4. 4060
COVER, OIL FILTER	4. 2290
COVER, OIL PAN	4. 7120
COVER, OIL PUMP	4. 1220
COVER, OUTPUT SHAFT BEARING	9. 1099
COVER, OVERSPEED TRIP GOVERNOR HOUSING	7. 4630
COVER, OVERSPEED VALVE	7. 4729
COVER, RADIATOR FILLER CAP	5. 3151
COVER, RAW WATER PUMP	5. 6090
COVER, REDUCTION GEAR BEARING	9. 1365
COVER, SELECTOR VALVE	9. 1178
COVER, TACHOMETER DRIVE	7. 4445
COVER, THERMOSTAT HOUSING	5. 2120
COVER, TRANSMISSION CABLE BRACKET MT	2. 9970
COVER, VERNIER THROTTLE CONTROL	2. 9149
COVER, WATER FILTER	5. 7034
CRANKSHAFT	1. 3000
CRANKSHAFT ASSY.	1. 3001
CRANKSHAFT FRONT COVER	1. 3000A
CRANKSHAFT PULLEY	1. 3000C
CRANKSHAFT PULLEY BELT	1. 3000D
CRANKSHAFT, FRONT SUPPORT ASSY.	1. 3164
CRANKSHAFT, FRONT SUPPORT BEARING	1. 3165
CRANKSHAFT, FRONT SUPPORT SEAL RING	1. 3163
CUP, AIR CLEANER	3. 1010
CUP, BILGE PUMP GREASE	12.2130
CUSHION, ENGINE MOUNTING BASE ISOLATION PAD	11.1010
CUTOUT ASSY., GENERATOR VOLTAGE REGULATOR	7. 1607
CYLINDER ASSY., FAST IDLE AIR	2. 7850
CYLINDER ASSY., MASTER REMOTE CONTROL	12.6808
CYLINDER ASSY., THROTTLE CONTROL AIR	2. 9860
CYLINDER BLOCK	1. 1000
CYLINDER HEAD	1. 2000
CYLINDER KIT	1. 6182
CYLINDER, FORWARD CLUTCH PISTON	9. 1223
D	
DAMPER, VIBRATION	1. 3210
DEFLECTOR, INJECTOR SPILL	2. 1050
DEFLECTOR, ROTOR ASSY. SHAFT OIL	3. 5029

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ALPHABETICAL INDEX

PART NAME	GROUP NO.
D	
DIAPHRAM, GOVERNOR WEIGHT SHAFT	2. 7502
DIAPHRAM, OVERSPEED VALVE PISTON	7. 4733
DIPSTICK	4. 6000A
DIPSTICK	4. 6001
DIPSTICK, REDUCTION GEAR	9. 1395
DIPSTICK, TORQUE CONVERTER	8. 3840
DISC ASSY., CLUTCH	8. 1020
DISC, FLYWHEEL FLEXIBLE COUPLING	1. 4075
DISC, FUEL PUMP DRIVE	2. 2228
DRAINCOCK, FUEL FILTER	2. 3500
DRIVE ASSY., GENERATOR	7. 1507
DRIVE ASSY., GOVERNOR	2. 8750
DRIVE GEAR AND SHAFT ASSY., TACHOMETER DRIVE CABLE ADAPTOR	7. 4423
DRIVE UNIT, TACHOMETER	7. 4062
DRIVE, HYDRAULIC STARTER ENGINE PUMP	12.6594
DRIVEN GEAR AND SHAFT ASSY., TACHOMETER DRIVE CABLE ADAPTOR	7. 4425
E	
ELBOW, OIL COOLER WATER-INLET	5. 3418
ELBOW, OIL COOLER WATER-OUTLET	5. 3420
ELBOW, THERMOSTAT HOUSING COVER OUTLET	5. 2122
ELBOW, THERMOSTAT HOUSING OUTLET	5. 2092
ELBOW, TURBOCHARGER AIR OUTLET	3. 5417
ELBOW, WATER OUTLET MANIFOLD	5. 2035
ELBOW, WATER PUMP INLET	5. 3335
ELECTRICAL	7. 1000
ELECTRODE, AIR HEATER	7. 8120
ELECTRODE, HEAT EXCHANGER	5. 5010
ELEMENT, AIR CLEANER	3. 1050
ELEMENT, AIR SILENCER	3. 2002
ELEMENT, CONVERTER OIL FILTER	8. 3872
ELEMENT, DRAIN TANK	1. 1180
ELEMENT, FUEL FILTER	2. 3320
ELEMENT, FUEL STRAINER	2. 3010
ELEMENT, HYDRAULIC STARTER FILTER	12.6805
ELEMENT, INJECTOR FILTER	2. 1110
ELEMENT, OIL FILTER	2. 8986
ELEMENT, OIL FILTER	4. 2250
ELEMENT, WATER FILTER	5. 7020
EXHAUST MANIFOLD	6. 1000A
EXTENSION, BREATHER TUBE	4. 8010
EYE, THROTTLE BOOSTER ADJUSTING	2. 7982
EYE, THROTTLE BOOSTER ADJUSTING	2. 9348
F	
FACING, CLUTCH	8. 1030
FAN, GENERATOR	7. 1440
FERRULE AND NUT, FLEXIBLE SHAFT CASING	12.8514
FILLER TUBE	4. 5000A
FILTER ASSY., CONVERTER OIL	8. 3870
FILTER ASSY., FUEL	2. 3310
FILTER ASSY., HYDRAULIC STARTER	12.6801
FILTER ASSY., OIL	4. 2240
FILTER ASSY., OIL-FULL FLOW	2. 8985
FILTER ASSY., WATER	5. 7001
FILTER KIT, CONVERSION	2. 1132
FILTER UNIT, BREATHER	4. 8060
FILTER, AIR HEATER	7. 8060
FILTER, HYDRAULIC STARTER RESERVOIR	12.6558
FITTING, AUXILLARY PUMP AND TANK	2. 5004
FITTING, CLUTCH DRIVE SHAFT BEARING GREASE	8. 1685
FITTING, CLUTCH PILOT BEARING GREASE	8. 1455
FITTING, FUEL SYSTEM FLEXIBLE HOSE END	12.8552

PART NAME	GROUP NO.
F	
FLANGE, EXHAUST	6. 2085
FLANGE, EXHAUST MANIFOLD WATER OUTLET	5. 3460
FLANGE, MARINE GEAR DRIVE	9. 1004
FLANGE, OIL COOLER WATER OUTLET	4. 4242
FLANGE, PROPELLER DRIVE	9. 1430
FLYWHEEL	1. 4000A
FLYWHEEL ASSY.	1. 4001
FLYWHEEL CASTING	12.8565
FOLLOWER ASSY., CAM	1. 8260
FOLLOWER, INJECTOR	2. 1060
FORK, CLUTCH RELEASE	8. 1280
FORK, FUEL PUMP COUPLING	2. 2220
FORK, GOVERNOR OPERATING	8. 3430
FORK, GOVERNOR OPERATING SHAFT-LOWER	2. 7290
FORK, GOVERNOR SPEED ADJUSTING LINKAGE SPRING	2. 8435
FORK, HYDRAULIC STARTER CLUTCH	12.6509
FUEL FILTER	2. 3000A
FUEL MANIFOLD	2. 4000
FUEL PUMP	2. 2000
G	
GAGE ,OIL TEMPERATURE	7. 4077
GAGE, AIR HEATER PRESSURE	7. 8342
GAGE, FUEL PRESSURE	7. 4091
GAGE, HYDRAULIC STARTER PRESSURE	12.6585
GAGE, OIL PRESSURE-ENGINE	7. 4070
GAGE, OIL PRESSURE-REVERSE GEAR OR TORQUE CONVERTER	7. 4071
GAGE, WATER TEMPERATURE	7. 4080
GASKET	9. 1148
GASKET BREATHER TUBE	4. 8020
GASKET KIT, CYLINDER HEAD OVERHAUL	1. 2002
GASKET KIT, ENGINE OVERHAUL	1. 1002
GASKET SET, BILGE PUMP BODY	12.2030
GASKET, ACCESSORY DRIVE	1. 7604
GASKET, ACCESSORY DRIVE ADAPTOR	1. 7623
GASKET, AIR BOOSTER INLET TUBE AND ELBOW TO AIR COMPRESSOR	12.4380
GASKET, AIR CLEANER BOTTOM	3. 1060
GASKET, AIR CLEANER COVER	3. 1025
GASKET, AIR CLEANER MOUNTING ADAPTOR	3. 1087
GASKET, AIR CLEANER SCREEN	3. 1055
GASKET, AIR COMPRESSOR ADAPTOR	12.4025
GASKET, AIR COMPRESSOR BOOSTER TUBE	12.4380
GASKET, AIR COMPRESSOR MOUNTING	12.4005
GASKET, AIR CYLINDER COVER	2. 9093
GASKET, AIR HEATER	7. 8020
GASKET, AIR HEATER INSULATOR	7. 8140
GASKET, AIR INLET HOUSING	3. 3010
GASKET, AIR INLET HOUSING FLANGE	3. 3007
GASKET, AIR SILENCER	3. 2012
GASKET, BALANCE WEIGHT COVER	1. 7480
GASKET, BLOWER	3. 4010
GASKET, BLOWER DRIVE GEAR HUB SUPPORT	3. 4360
GASKET, BLOWER HOUSING END PLATE COVER	3. 4190
GASKET, BREATHER BODY OR SEPARATOR	4. 8070
GASKET, BREATHER SHELL COVER	4. 8057
GASKET, CLUTCH HOUSING INSPECTION HOLE COVER	8. 1070
GASKET, CONVERTER OIL FILTER SHELL	8. 3875
GASKET, CRANKSHAFT FRONT COVER	1. 3170
GASKET, CRANKSHAFT FRONT COVER	4. 1229
GASKET, CRANKSHAFT FRONT COVER PLATE	1. 3172
GASKET, CYLINDER BLOCK END PLATE-FRONT	1. 1030
GASKET, CYLINDER BLOCK HAND HOLE COVER	1. 1050

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ALPHABETICAL INDEX

PART NAME	GROUP NO.
G	
GASKET, CYLINDER BLOCK OIL HOLE COVER	1. 1066
GASKET, CYLINDER BLOCK WATER HOLE COVER	1. 1070
GASKET, CYLINDER HEAD COMPRESSION	1. 2010
GASKET, CYLINDER HEAD WATER AND OIL	1. 2022
GASKET, CYLINDER HEAD WATER HOLE COVER	1. 2044
GASKET, DIPSTICK	4. 6010
GASKET, DRIVE TO GOVERNOR	2. 8760
GASKET, EXHAUST MANIFOLD	6. 1010
GASKET, EXHAUST MANIFOLD COVER PLATE	6. 1110
GASKET, EXHAUST MANIFOLD FRESH WATER INLET	5. 3431
GASKET, EXHAUST MANIFOLD WATER OUTLET	5. 3461
GASKET, EXHAUST OUTLET	6. 2105
GASKET, EXPANSION TANK FILLER NECK	5. 5130
GASKET, EXPANSION TANK INLET CONNECTION	5. 3322
GASKET, FLANGE MOUNTED ALTERNATOR ADAPTOR	7. 1589
GASKET, FLYWHEEL HOUSING	1. 5010
GASKET, FLYWHEEL HOUSING BELL	1. 5020
GASKET, FLYWHEEL HOUSING LARGE HOLE COVER	1. 5040
GASKET, FLYWHEEL HOUSING SMALL HOLE COVER	1. 5060
GASKET, FRESH WATER PUMP	5. 1010
GASKET, FRESH WATER PUMP ADAPTOR	5. 1006
GASKET, FRESH WATER PUMP BODY COVER	5. 1032
GASKET, FUEL FILTER COVER SCREW	2. 3420
GASKET, FUEL FILTER COVER SHELL	2. 3400
GASKET, FUEL FILTER MOUNTING BRACKET	2. 3570
GASKET, FUEL PUMP MOUNTING PLATE	2. 2237
GASKET, FUEL PUMP TO ENGINE	2. 2007
GASKET, FUEL PUMP VALVE PLUG	2. 2180
GASKET, FUEL STRAINER COVER	2. 3090
GASKET, FUEL STRAINER COVER SCREW	2. 3130
GASKET, FUEL STRAINER MOUNTING BRACKET	2. 3270
GASKET, FUEL TANK CAP	2. 6035
GASKET, GENERATOR DRIVE	7. 1508
GASKET, GENERATOR DRIVE BEARING AND OIL SEAL RETAINER	7. 1525
GASKET, GOVERNOR BODY TO BASE	8. 3390
GASKET, GOVERNOR BREATHER HOLE COVER	2. 7006
GASKET, GOVERNOR CONTROL HOUSING MOUNTING	2. 7232
GASKET, GOVERNOR COVER	2. 7051
GASKET, GOVERNOR COVER	2. 8045
GASKET, GOVERNOR FUEL ROD SPRING COVER	2. 8086
GASKET, GOVERNOR HIGH SPEED SPRING COVER	2. 7650
GASKET, GOVERNOR HOUSING DUMMY HOLE PLUG	2. 8210
GASKET, GOVERNOR RELIEF VALVE	2. 8640
GASKET, GOVERNOR SPEED ADJUSTING SHAFT	2. 8363
GASKET, GOVERNOR SPEED ADJUSTING SHAFT SPACER CAP	2. 8367
GASKET, GOVERNOR TO BLOWER	2. 8035
GASKET, GOVERNOR TO BLOWER-GOVERNOR DRIVE	2. 7010
GASKET, GOVERNOR VARIABLE SPEED SPRING HOUSING	2. 7700
GASKET, GOVERNOR WEIGHT HOUSING CAP	2. 7515
GASKET, GOVERNOR WEIGHT HOUSING COVER	2. 7530
GASKET, HEAT EXCHANGER COVER	5. 5050
GASKET, HEAT EXCHANGER MOUNTING BRACKET	5. 5080
GASKET, HEAT EXCHANGER RAW WATER INLET TUBE	5. 5460
GASKET, HEAT EXCHANGER TANK INLET CONNECTION	5. 3323
GASKET, HEAT EXCHANGER TANK OUTLET CONNECTION	5. 3325
GASKET, HEAT EXCHANGER WATER OUTLET TUBE	5. 5570
GASKET, HYDRAULIC MARINE GEAR OIL PUMP	9. 1480
GASKET, HYDRAULIC MARINE GEAR OIL PUMP ADAPTOR	9. 1478
GASKET, HYDRAULIC PUMP	12.5005
GASKET, HYDRAULIC PUMP ADAPTOR	12.5021
GASKET, HYDRAULIC STARTER	12.6502
GASKET, HYDRAULIC STARTER ENGINE PUMP BODY	12.6598
GASKET, HYDRAULIC STARTER MOTOR HOUSING	12.6530
GASKET, INJECTOR FILTER CAP	2. 1140
GASKET, LOWER OIL PAN	4. 7040
GASKET, MARINE GEAR HOUSING	9. 1008
GASKET, MARINE GEAR HOUSING-REAR	9. 1102
GASKET, MASTER CYLINDER RESERVOIR COVER	12.6813
GASKET, OIL COOLER ADAPTOR	4. 4115
GASKET, OIL COOLER ADAPTOR TO BLOCK	4. 4115
GASKET, OIL COOLER BYPASS VALVE PLUG	4. 4170
GASKET, OIL COOLER CORE INNER	4. 4030
GASKET, OIL COOLER CORE OUTER	4. 4040
GASKET, OIL COOLER CORE-INNER	4. 4030
GASKET, OIL COOLER CORE-OUTER	4. 4040
GASKET, OIL COOLER HOUSING	4. 4055
GASKET, OIL COOLER HOUSING (TO BLOCK)	4. 4055
GASKET, OIL COOLER HOUSING COVER	4. 4061
GASKET, OIL COOLER WATER INLET CONNECTION	4. 4212
GASKET, OIL COOLER WATER INLET CONNECTION	5. 3360
GASKET, OIL COOLER WATER OUTLET ELBOW	5. 3421
GASKET, OIL COOLER WATER OUTLET FLANGE	4. 4244
GASKET, OIL FILLER TUBE	4. 5050
GASKET, OIL FILTER ADAPTOR	4. 2350
GASKET, OIL FILTER ADAPTOR TO OIL COOLER ADAPTOR	4. 2293
GASKET, OIL FILTER BYPASS PLUG	4. 2489
GASKET, OIL FILTER BYPASS VALVE HOUSING	4. 2389
GASKET, OIL FILTER BYPASS VALVE PLUG	8. 3890
GASKET, OIL FILTER COVER	4. 2300
GASKET, OIL FILTER COVER NUT	4. 2330
GASKET, OIL FILTER ELEMENT	2. 8987
GASKET, OIL FILTER TUBE ADAPTOR	4. 3027
GASKET, OIL FILTER TUBE ADAPTOR REMOTE MOUNTED FILTER	4. 3027
GASKET, OIL PAN COVER	4. 7130
GASKET, OIL PAN DRAIN PLUG	4. 7090
GASKET, OIL PAN TO BLOCK	4. 7030
GASKET, OIL PRESSURE REGULATOR PLUG	4. 1720
GASKET, OIL PUMP COVER	4. 1230
GASKET, OIL PUMP INLET PIPE	4. 1520
GASKET, OIL PUMP OUTLET PIPE	4. 1590
GASKET, OIL PUMP RELIEF VALVE	4. 1280
GASKET, OIL PUMP TO CYLINDER BLOCK	4. 1007
GASKET, OVERSPEED TRIP GOVERNOR ADAPTOR	7. 4638
GASKET, RADIATOR FILLER CAP	5. 3130
GASKET, RAW WATER PUMP	5. 6350
GASKET, RAW WATER PUMP ADAPTOR	5. 6012
GASKET, RAW WATER PUMP COVER	5. 6100
GASKET, RAW WATER PUMP FLANGE	5. 5410
GASKET, RAW WATER PUMP INLET CONNECTION	5. 6510
GASKET, REDUCTION GEAR ADAPTOR	9. 1283
GASKET, REDUCTION GEAR BEARING COVER	9. 1370
GASKET, REDUCTION GEAR DIPSTICK	9. 1405
GASKET, REDUCTION GEAR HOUSING	9. 1286

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ALPHABETICAL INDEX

PART NAME	GROUP NO.
G	
GASKET, ROCKER COVER	1. 8455
GASKET, SELECTOR VALVE COVER	9. 1179
GASKET, SELECTOR VALVE PRESSURE REGULATOR	9. 1191
GASKET, STARTING FLUID STRAINER ASSY.	12.6390
GASKET, STARTING MOTOR	7. 3004
GASKET, STARTING MOTOR HOLE COVER	1. 5075
GASKET, TACHOMETER DRIVE CABLE ADAPTOR	7. 4421
GASKET, TACHOMETER DRIVE COVER ADAPTOR	7. 4455
GASKET, THERMOSTAT HOUSING	5. 2110
GASKET, THERMOSTAT HOUSING COVER	5. 2130
GASKET, THERMOSTAT HOUSING WATER OUTLET CONNECTION	5. 3281
GASKET, THROTTLE CONTROL CROSS SHAFT BRACKET TO HEAD	2. 9306
GASKET, TURBOCHARGER AIR OUTLET ELBOW	3. 5418
GASKET, TURBOCHARGER EXHAUST INLET CONNECTION	3. 5307
GASKET, TURBOCHARGER EXHAUST OUTLET	3. 5325
GASKET, VACUUM PUMP	12.3005
GASKET, WATER BYPASS TUBE-UPPER	5. 2170
GASKET, WATER FILTER COVER	5. 7035
GASKET, WATER FILTER MOUNTING BRACKET	5. 7081
GASKET, WATER FLANGE AT GEAR AND/OR RAW WATER PUMP	5. 5378
GASKET, WATER OUTLET MANIFOLD ELBOW	5. 2037
GASKET, WATER PUMP INLET AND OUTLET ELBOW	5. 3337
GASKET, WATER TEMPERATURE SWITCH	7. 4510
GEAR AND SHAFT ASSY., GOVERNOR DRIVE	2. 8815
GEAR ASSY., CLUTCH HUB TWIN DISC	9. 1036
GEAR ASSY., HYDRAULIC MARINE	9. 1001
GEAR ASSY., IDLER	1. 7220
GEAR ASSY., PLANETARY	9. 1080
GEAR ASSY., REDUCTION GEAR PLANETARY	9. 1292
GEAR REDUCTION	9. 1310
GEAR SET, BLOWER ROTOR	3. 4080
GEAR, ACCESSORY DRIVE	1. 7670
GEAR, BLOWER DRIVE	3. 4300
GEAR, CAMSHAFT AND BALANCE SHAFT	1. 7200
GEAR, CRANKSHAFT TIMING	1. 3145
GEAR, FLYWHEEL RING	1. 4010
GEAR, FORWARD CLUTCH TWIN DISC	9. 1028
GEAR, FUEL PUMP DRIVE	2. 2087
GEAR, FUEL PUMP DRIVE	2. 2290
GEAR, FUEL PUMP DRIVEN	2. 2088
GEAR, GOVERNOR DRIVE	2. 7960
GEAR, GOVERNOR DRIVE	2. 8855
GEAR, GOVERNOR DRIVEN SHAFT	2. 8805
GEAR, GOVERNOR OIL PUMP DRIVE	2. 8720
GEAR, GOVERNOR OIL PUMP DRIVEN	2. 8730
GEAR, HYDRAULIC PUMP DRIVE	12.5030
GEAR, IDLER	1. 7222
GEAR, INJECTOR	2. 1180
GEAR, MARINE GEAR PLANETARY RING	9. 1091
GEAR, OIL PUMP DRIVE	4. 1090
GEAR, OIL PUMP DRIVE-ON CRANKSHAFT	4. 1310
GEAR, OIL PUMP DRIVE-ON PUMP	4. 1380
GEAR, OIL PUMP DRIVEN	4. 1200
GEAR, RAW WATER PUMP DRIVE	5. 6320
GEAR, REDUCTION GEAR	9. 1290
GEAR, REDUCTION GEAR INPUT	9. 1287
GEAR, REDUCTION GEAR PLANETARY RING	9. 1298
GEAR, REVERSE CLUTCH TWIN DISC	9. 1029
GEAR, VERNIER THROTTLE CONTROL WORM	2. 9141
GENERATOR ASSY.	7. 1001
GENERATOR ASSY., POWER	7. 5001
G	
GENERATOR, TACHOMETER ELECTRICAL	7. 4470
GLAND, BILGE PUMP SHAFT PACKING	12.2070
GLAND, HEAT EXCHANGER SEAL RETAINER	5. 5027
GOVERNOR ASSY.	2. 7001
GOVERNOR ASSY.	2. 8030
GOVERNOR KIT, AIR COMPRESSOR	12.4305
GOVERNOR, AIR COMPRESSOR	12.4305
GOVERNOR, OVERSPEED TRIP	7. 4611
GOVERNOR, TORQUE CONVERTER OUTPUT SHAFT	8. 3077
GUARD, FAN	5. 4580
GUARD, FLANGE MOUNTED ALTERNATOR FAN	7. 1586
GUARD, FLANGED MOUNTED ALTERNATOR FAN	7. 1586
GUARD, FRESH WATER PUMP DRIVE BELT	5. 1218
GUARD, GENERATOR DRIVE BELT AND PULLEY	7. 1585
GUARD, HYDRAULIC STARTER ENGINE PUMP BELT	12.6672
GUIDE ASSY., OVERSPEED VALVE PISTON	7. 4735
GUIDE, CAM FOLLOWER	1. 8300
GUIDE, DIPSTICK	4. 6020
GUIDE, EXHAUST VALVE	1. 8320
GUIDE, GOVERNOR SPRING	2. 7620
GUIDE, GOVERNOR VARIABLE SPEED SPRING PLUNGER	2. 7780
GUIDE, REDUCTION GEAR DIPSTICK	9. 1400
H	
HANDLE, HYDRAULIC STARTER CONTROL SHAFT	12.6514
HANDLE, HYDRAULIC STARTER HAND PUMP	12.6646
HANDLE, RAW WATER PUMP CLUTCH	5. 6640
HANGER, THROTTLE BOOSTER SPRING	2. 9349
HARNESS, AIR HEATER WIRING	7. 8095
HARNESS, AIR SHUTOFF WIRING	7. 4545
HARNESS, ENGINE WIRING	7. 7001
HEAD ASSY., CYLINDER	1. 2001
HEATER ASSY., AIR	7. 8001
HOOD ASSY., ENGINE	10.1001
HOSE, AIR INLET PIPE	3. 1270
HOSE, AIR SILENCER OUTLET ELBOW	3. 2023
HOSE, BREATHER EXTENSION	4. 8175
HOSE, CLUTCH RELEASE BEARING	8. 1320
HOSE, EXHAUST MANIFOLD FRESH WATER INLET	5. 3432
HOSE, FILTER TO CYLINDER HEAD	2. 5160
HOSE, FLYWHEEL HOUSING DRAIN	1. 5096
HOSE, FRESH WATER OUTLET	5. 3446
HOSE, FUEL DRAIN	2. 5215
HOSE, FUEL DRAIN CROSSOVER	2. 5206
HOSE, FUEL PUMP INLET	2. 5060
HOSE, FUEL PUMP OUTLET TO FILTER	2. 5110
HOSE, FUEL PUMP TO FILTER	2. 5110
HOSE, FUEL SUPPLY TO STRAINER	2. 5010
HOSE, FUEL SYSTEM FLEXIBLE (BULK)	12.8550
HOSE, FUEL TANK	2. 6005
HOSE, HEAT EXCHANGER AUXILIARY TANK	5. 5195
HOSE, HEAT EXCHANGER FRESH WATER INLET	5. 3295
HOSE, HEAT EXCHANGER OUTLET CONNECTION TO WATER PUMP	5. 3334
HOSE, HEAT EXCHANGER RAW WATER INLET TUBE	5. 5470
HOSE, HEAT EXCHANGER WATER OUTLET TUBE	5. 5580
HOSE, HYDRAULIC STARTER	12.6827
HOSE, HYDRAULIC STARTER ENGINE PUMP TO ACCUMULATOR	12.6850
HOSE, HYDRAULIC STARTER FILTER TO ENGINE PUMP	12.6840

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ALPHABETICAL INDEX

PART NAME	GROUP NO.
H	
HOSE, HYDRAULIC STARTER FILTER TO HAND PUMP	12.6845
HOSE, HYDRAULIC STARTER FLEXIBLE (BULK)	12.8520
HOSE, HYDRAULIC STARTER FUEL PRIMER	12.6950
HOSE, HYDRAULIC STARTER RELIEF VALVE	12.6880
HOSE, HYDRAULIC STARTER RESERVOIR TO FILTER	12.6830
HOSE, HYDRAULIC STARTER RESERVOIR TO HAND PUMP	12.6832
HOSE, HYDRAULIC STARTER TO RESERVOIR	12.6865
HOSE, MARINE GEAR OIL COOLER TO SELECTOR VALVE	4. 4343
HOSE, MARINE GEAR OR TRANSMISSION OIL INLET	4. 4335
HOSE, MARINE GEAR OR TRANSMISSION OIL OUTLET	4. 4330
HOSE, MASTER CYLINDER TO REMOTE CONTROL VALVE	12.6875
HOSE, OIL COOLER WATER INLET	4. 4213
HOSE, OIL COOLER WATER INLET CONNECTION	5. 3365
HOSE, OIL COOLER WATER OUTLET	5. 3422
HOSE, RADIATOR INLET	5. 3290
HOSE, RADIATOR OUTLET	5. 3330
HOSE, ROCKER COVER DRAIN	1. 1155
HOSE, THERMOSTAT HOUSING COVER OUTLET ELBOW	5. 2124
HOSE, TURBOCHARGER AIR OUTLET CONNECTION	3. 5420
HOSE, WATER BYPASS TUBE	5. 2165
HOSE, WATER FILTER INLET	5. 7090
HOSE, WATER FILTER OUTLET	5. 7100
HOSE, WATER PUMP INLET AND BYPASS TUBE	5. 3338
HOUSING AND BUSHING ASSY., TACHOMETER DRIVE CABLE ADAPTOR	7. 4428
HOUSING ASSY., AIR INLET	3. 3001
HOUSING ASSY., FLYWHEEL	1. 5001
HOUSING ASSY., FLYWHEEL (TWIN AND QUAD)	1. 5001
HOUSING ASSY., GOVERNOR	2. 8190
HOUSING ASSY., GOVERNOR CONTROL	2. 7230
HOUSING ASSY., GOVERNOR VARIABLE SPEED SPRING	2. 7680
HOUSING ASSY., OVERSPEED TRIP GOVERNOR	7. 4614
HOUSING ASSY., REVERSE GEAR	9. 1010
HOUSING ASSY., TURBOCHARGER INTERMEDIATE	3. 5018
HOUSING, ACCESSORY DRIVE	1. 7627
HOUSING, AIR INLET	3. 3003
HOUSING, AIR SHUTDOWN	3. 4412
HOUSING, AIR SHUTOFF CONTROL	7. 4550
HOUSING, BILGE PUMP IMPELLER	12.2050
HOUSING, BLOWER	3. 4020
HOUSING, CLUTCH	8. 1010
HOUSING, GOVERNOR DRIVE	2. 8780
HOUSING, GOVERNOR HIGH SPEED SPRING ADJUSTING SCREW	2. 7635
HOUSING, GOVERNOR VARIABLE SPEED SPRING	2. 7690
HOUSING, GOVERNOR WEIGHT	2. 7340
HOUSING, HYDRAULIC STARTER CLUTCH	12.6510
HOUSING, HYDRAULIC STARTER DRIVE	12.6504
HOUSING, HYDRAULIC STARTER ENGINE PUMP BEARING	12.6597
HOUSING, HYDRAULIC STARTER MOTOR	12.6525
HOUSING, MARINE GEAR DRIVE	9. 1003
HOUSING, MARINE GEAR OIL COOLER	4. 4051
HOUSING, OIL COOLER	4. 4050
HOUSING, OIL COOLER-ENGINE	4. 4050
HOUSING, OIL FILTER BYPASS VALVE	4. 2388
HOUSING, OVERSPEED TRIP GOVERNOR SWITCH	7. 4677

PART NAME	GROUP NO.
H	
HOUSING, OVERSPEED VALVE	7. 4727
HOUSING, POWER TAKE-OFF ADAPTOR	8. 1900
HOUSING, RAW WATER PUMP DRIVE	5. 6010
HOUSING, RAW WATER PUMP IMPELLER	5. 6020
HOUSING, REDUCTION GEAR	9. 1285
HOUSING, SELECTOR VALVE	9. 1136
HOUSING, THERMOSTAT	5. 2090
HOUSING, TURBOCHARGER COMPRESSOR	3. 5022
HOUSING, TURBOCHARGER TURBINE	3. 5003
HOUSING, VERNIER THROTTLE CONTROL	2. 9136
HUB ASSY., REVERSE CLUTCH	9. 1096
HUB, AIR COMPRESSOR	12.4040
HUB, BLOWER DRIVE GEAR	3. 4310
HUB, BLOWER ROTOR GEAR	3. 4130
HUB, CRANKSHAFT PULLEY	1. 3310
HUB, DRIVE PULLEY	1. 7610
HUB, FAN	5. 4235
HUB, FLANGE MOUNTED ALTERNATOR DRIVE	7. 1511
HUB, FLANGED MOUNTED ALTERNATOR DRIVE	7. 1511
HUB, FORWARD CLUTCH	9. 1242
HUB, FRESH WATER PUMP DRIVEN PULLEY	5. 1216
HUB, FRONT POWER TAKE-OFF ADAPTOR	8. 1906
HUB, FUEL PUMP DRIVE GEAR	2. 2292
HUB, GENERATOR DRIVE PULLEY	7. 1510
HUB, IDLER GEAR	1. 7250
HUB, REDUCTION GEAR	9. 1299
HUB, VIBRATION DAMPER	1. 3230
HYDRAULIC STARTER FITTING KIT	12.6825
I	
IDLER PULLEY, FAN BELT	5. 4325
IDLER, PULLEY FAN BELT WITH ADJUSTING ARM	5. 4325
IMPELLER AND SHAFT ASSY., BILGE PUMP	12.2040
IMPELLER, FRESH WATER PUMP	5. 1110
IMPELLER, RAW WATER PUMP	5. 6230
INDICATOR, AIR CLEANER RESTRICTION	3. 1002
INJECTOR	2. 1000A
INJECTOR ASSY.	2. 1001
INJECTOR CONTROLS	2. 9000
INSERT, EXHAUST VALVE	1. 8330
INSULATION BLANKET, TURBOCHARGER	3. 5535
INSULATOR ASSY., CRANKSHAFT PULLEY HUB	1. 3311
INSULATOR, AIR HEATER	7. 8130
INSULATOR, POWER GENERATOR CONTROL CABINET TO SUPPORT	7. 6005
INSULATOR, TIME DELAY RELAY MOUNTING	7. 4713
INTERCOOLER, TURBOCHARGER	3. 5425
ISOLATOR, ROCKER COVER BOLT	1. 8461
K	
KIT, AIR HEATER CONVERSION	7. 8004
KIT, GOVERNOR CONVERSION	2. 7012
KITS, SERVICE (ALL)	12.8715
KNOB, RAW WATER PUMP HANDLE	5. 6630
KNOB, STARTING AID PUMP PLUNGER	12.6330
KNOB, VERNIER THROTTLE CONTROL	2. 9135
L	
LAMP, INSTRUMENT PANEL	7. 4100
LATCH, AIR SHUTOFF RESET	7. 4557
LEAD, AIR HEATER COIL HIGH TENSION	7. 8110
LEAP, AIR HEATER COIL HIGH TENSION	7. 8110
LEVER AND PIN ASSY., GOVERNOR DIFFERENTIAL	2. 7310
LEVER ASSY., AIR INLET HOUSING SHUTDOWN RESET	3. 3110

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ALPHABETICAL INDEX

PART NAME	GROUP NO.
L	
LEVER ASSY., AIR SHUTDOWN RESET	3. 4428
LEVER ASSY., FUEL MODULATING CONTROL TUBE	2. 9084
LEVER ASSY., GOVERNOR CONTROL LINK OPERATING	2. 7317
LEVER, ACCELERATOR LINKAGE MT TRANSMISSION	2. 9900
LEVER, AIR INLET HOUSING SHUTDOWN VALVE	3. 3090
LEVER, AIR SHUTDOWN VALVE	3. 4427
LEVER, AIR SHUTOFF	7. 4536
LEVER, AIR SHUTOFF RESET	7. 4532
LEVER, CLUTCH HAND CONTROL	8. 1470
LEVER, CLUTCH RELEASE YOKE	8. 1142
LEVER, GOVERNOR ACCELERATOR CONTROL MT TRANSMISSION	2. 9915
LEVER, GOVERNOR CONTROL	2. 9410
LEVER, GOVERNOR CONTROL SHAFT	2. 9390
LEVER, GOVERNOR CONTROL SHAFT-REAR OF ENGINE	2. 9361
LEVER, GOVERNOR COVER SHUTDOWN SHAFT	2. 7165
LEVER, GOVERNOR COVER THROTTLE SHAFT	2. 7170
LEVER, GOVERNOR OPERATING SHAFT	2. 8975
LEVER, GOVERNOR OPERATING SHAFT-UPPER	2. 7280
LEVER, GOVERNOR ROCKER SHAFT	8. 3450
LEVER, GOVERNOR SPEED ADJUSTING	2. 8420
LEVER, GOVERNOR SPEED ADJUSTING	8. 3460
LEVER, GOVERNOR SPEED ADJUSTING FLOATING	2. 8410
LEVER, GOVERNOR SPEED ADJUSTING TERMINAL	2. 8450
LEVER, GOVERNOR TO INJECTOR LINK	2. 7820
LEVER, GOVERNOR VARIABLE SPEED CONTROL	2. 7740
LEVER, GOVERNOR VARIABLE SPEED SPRING	2. 7730
LEVER, INJECTOR CONTROL TUBE	2. 9009
LEVER, INJECTOR CONTROL TUBE RACK	2. 9014
LEVER, INJECTOR CONTROL TUBE-LOAD LIMIT ADJUSTING	2. 9017
LEVER, MANUAL SHUTDOWN	2. 7827
LEVER, SELECTOR VALVE OPERATING	9. 1175
LEVER, THROTTLE BOOSTER	2. 9345
LEVER, THROTTLE CONTROL CROSS SHAFT	2. 9340
LEVER, THROTTLE CONTROL ROD-LOWER	2. 9290
LEVER, TRANSMISSION ACCELERATOR CONTROL MT	2. 9910
LINER, CYLINDER	1. 6180
LINK, AIR SHUTDOWN	3. 4416
LINK, CLUTCH RELEASE YOKE	8. 1315
LINK, GOVERNOR ACCELERATOR CONTROL MT TRANSMISSION	2. 9930
LINK, GOVERNOR CONTROL SHAFT LEVER	2. 9400
LINK, GOVERNOR OPERATING CONNECTING	2. 8955
LINK, GOVERNOR OPERATING LEVER CONNECTING	2. 7312
LINK, GOVERNOR OPERATING LEVER TO BELL CRANK	2. 8970
LINK, INJECTOR CONTROL TUBE	2. 8940
LOCK, CLUTCH ADJUSTING NUT	8. 1145
LOCK, CLUTCH DRIVE SHAFT BEARING RETAINER	8. 1700
LOCK, EXHAUST VALVE SPRING	1. 8370
LOCKNUT, GOVERNOR HIGH SPEED SPRING RETAINER	2. 7615
LOCKRING, ACCESSORY DRIVE	1. 7650
LOCKRING, GENERATOR DRIVE BEARING	7. 1545
LUBE OIL FILTER	4. 2000A
LUBRICANT, FLEXIBLE SHAFT CABLE	12.8516
LUBRICATING COMPOUND THREAD	12.8110
M	
MANIFOLD, EXHAUST	6. 1001
MEDALLION, INSTRUMENT PANEL	7. 4099
METER HOUR	7. 4118
MISCELLANEOUS SERVICE PARTS - SECTION 1	12.8801
MOTOR ASSY., GOVERNOR SYCHRONIZING	2. 8182
MOTOR ASSY., STARTING	7. 3001
MOUNTING ASSY., VOLTAGE REGULATOR	7. 1612
MOUNTING, ENGINE FRONT SUPPORT ELASTIC	11.1072
MOUNTING, ENGINE REAR SUPPORT ELASTIC	11.1120
MOUNTING, INSTRUMENT PANEL	7. 4010
MOUNTING, TACHOMETER-MAGNETO MOUNTING	7. 4064
MUFFLER ASSY., EXHAUST	6. 2001
N	
NAME PLATE, GOVERNOR	2. 7002
NAME PLATE, RADIATOR	5. 3268
NECK ASSY., RADIATOR FILLER	5. 3100
NECK, EXPANSION TANK FILLER	5. 5120
NOZZLE, AIR HEATER SPRAY	7. 8050
NOZZLE, CONNECTING ROD SPRAY	1. 6010
NOZZLE, CYLINDER HEAD WATER	1. 2005
NOZZLE, STARTING AID PUMP TUBE	12.6375
NUT ASSY., MASTER CYLINDER END	12.6817
NUT, AIR HEATER INSULATOR	7. 8150
NUT, CLUTCH ADJUSTING	8. 1144
NUT, CYLINDER HEAD STUD	1. 2040
NUT, INJECTOR VALVE	2. 1030
NUT, PROPELLER DRIVE FLANGE	9. 1435
O	
OIL COOLER	4. 4000A
OIL DISTRIBUTION SYSTEM	4. 1000B
OIL PAN	4. 7000A
OIL PUMP	4. 1000A
OIL SEAL, GOVERNOR BASE	8. 3385
OIL SEAL, GOVERNOR ROCKER SHAFT	8. 3445
ORIFICE, CONNECTING ROD	1. 6020
OVERHAUL KIT, FUEL PUMP	2. 2004
OVERHAUL KIT, OIL PUMP	4. 1003
P	
PACKING, BILGE PUMP SHAFT	12.2060
PACKING, GOVERNOR VARIABLE SPEED SPRING LEVER SHAFT	2. 7750
PAINT, ENGINE TOUCH-UP	12.8001
PAN, OIL	4. 7001
PAN, OIL-LOWER	4. 7020
PAN, OIL-UPPER	4. 7010
PANEL, ENGINE HOOD SIDE	10.1100
PANEL, INSTRUMENT	7. 4005
PANEL, REAR HOOD SUPPORT	10.1035
PEDAL ASSY., BRAKE UPPER LOWER	12.6822
PILOT, BLOWER DRIVE CAM	3. 4082
PILOT, BLOWER DRIVER CAM	3. 4082
PIN, BUSHING GUIDE	2. 1165
PIN, GOVERNOR CONTROL WIRE SWIVEL	2. 9426
PIN, GOVERNOR DIFFERENTIAL LEVER	2. 7315
PIN, GOVERNOR OPERATING SHAFT LEVER	2. 7300
PIN, GOVERNOR THROTTLE SHAFT FULCRUM LEVER	2. 7130
PIN, GOVERNOR WEIGHT	2. 7430
PIN, INJECTOR AND EXHAUST VALVE ROCKER ARM CLEVIS	1. 8150
PIN, INJECTOR STOP	2. 1100
PIN, PISTON	1. 6140

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PART NAME	GROUP NO.
P	
PIN, RAW WATER PUMP ROLL	5. 6620
PIN, VERNIER THROTTLE CONTROL LOCK BUTTON	2. 9146
PIPE ASSY., BREATHER	4. 8001
PIPE, AIR CLEANER TO INLET HOUSING	3. 1260
PIPE, BLOWER DRIVE BEARING OIL	4. 1660
PIPE, EXHAUST	6. 2090
PIPE, FUEL	2. 4020
PIPE, OIL PUMP INLET	4. 1510
PIPE, OIL PUMP OUTLET	4. 1580
PIPE, RADIATOR OVERFLOW	5. 3160
PISTON ASSY., MASTER CYLINDER OPERATING	12.6815
PISTON KIT	1. 6110
PISTON, FAST IDLE AIR CYLINDER	2. 7860
PISTON, FORWARD CLUTCH	9. 1225
PISTON, GOVERNOR SERVO-MOTOR	2. 8510
PISTON, GOVERNOR SPEED ADJUSTING	2. 7612
PISTON, GOVERNOR SPEED CONTROL	2. 7736
PISTON, HYDRAULIC STARTER	12.6537
PISTON, HYDRAULIC STARTER ACCUMULATOR	12.6580
PISTON, HYDRAULIC STARTER ENGINE PUMP	12.6607
PISTON, HYDRAULIC STARTER HAND PUMP	12.6638
PISTON, INJECTOR CONTROL AIR CYLINDER	2. 9094
PISTON, OVERSPEED VALVE	7. 4731
PISTON, REVERSE CLUTCH	9. 1030
PLATE ASSY., ACCESSORY DRIVE	1. 7630
PLATE, AIR COMPRESSOR DRIVE	12.4037
PLATE, AIR INLET HOUSING SHUTDOWN CONTROL	3. 3260
PLATE, AIR SHUTOFF CONTROL INSTRUCTION	7. 4529
PLATE, BLOWER HOUSING END	3. 4140
PLATE, BLOWER ROTOR GOVERNOR DRIVE	3. 4115
PLATE, BLOWER ROTOR THRUST	3. 4033
PLATE, BREATHER DEFLECTOR	4. 8185
PLATE, CAM OR BALANCE GEAR	12.5017
PLATE, CLUTCH	9. 1062
PLATE, CLUTCH PRESSURE	8. 1080
PLATE, CRANKSHAFT FRONT COVER	1. 3171
PLATE, CYLINDER BLOCK END-REAR	1. 1020
PLATE, ENGINE FRONT COVER	4. 1227
PLATE, EXHAUST MANIFOLD COVER	6. 1100
PLATE, FORWARD CLUTCH	9. 1235
PLATE, FUEL FILTER MOUNTING	2. 3535
PLATE, FUEL PUMP MOUNTING	2. 2235
PLATE, GENERATOR DRIVE PULLEY SHAFT COUPLING	7. 1550
PLATE, HYDRAULIC PUMP DRIVE	12.5015
PLATE, HYDRAULIC STARTER ENGINE PUMP DRIVE	12.6593
PLATE, HYDRAULIC STARTER VALVE	12.6520
PLATE, INJECTOR CONTROL TUBE LEVER-LOAD LIMIT ADJUSTING	2. 9019
PLATE, OIL FILTER MOUNTING	4. 2450
PLATE, OPTION AND ACCESSORY NAME	1. 8500
PLATE, RAW WATER PUMP DRIVE	5. 6410
PLATE, REDUCTION GEAR ADAPTOR	9. 1282
PLATE, REDUCTION GEAR PLANETARY RING GEAR	9. 1288
PLATE, REVERSE CLUTCH DISC	9. 1045
PLATE, REVERSE CLUTCH REACTION	9. 1060
PLATE, THROTTLE CONTROL INDICATOR	2. 9170
PLATE, TIME DELAY RELAY MOUNTING	7. 4711
PLATE, VOLTAGE REGULATOR MOUNTING	7. 1610
PLATE, WATER FILTER LOWER	5. 7045
PLATE, WATER FILTER SUMP	5. 7023
PLATE, WATER FILTER UPPER	5. 7043
PLATE,FLYWHEEL INPUT DRIVE	1. 4072
PLUG, AIR HEATER	7. 8010
PLUG, BLOWER ROTOR SHAFT	3. 4037

PART NAME	GROUP NO.
	2. 3480
	2. 2170
	2. 3100
MMY HOLE	2. 8200
E	2. 8685
STING TERMINAL	
	2. 8485
	2. 8165
K	5. 3486
GINE PUMP	
	12.6625
ER	12.6814
LVE	4. 4160
VE	4. 2488
VE	8. 3888
	4. 7080
OR	4. 1710
	4. 1270
E	5. 6650
URE REGULATOR	9. 1197
APTOR BEARING	7. 4432
INJECTOR	2. 1160
LOT VALVE	2. 8600
DER	2. 7865
D SPRING	2. 7563
D SPRING	2. 7560
SPEED SPRING	2. 7770
ERNOR PILOT	
	7. 4620
	8. 1001
	3. 1100
	2. 5490
	12.6655
	5. 4015
	5. 4015
RIVEN	12.2140
	1. 7605
	1. 7612
	12.4015
IVE	12.4017
	1. 3280
POWER TAKE-OFF	8. 1908
	5. 1214
DLER	5. 1200
	1. 7130
	7. 1500
	7. 1505
ENGINE PUMP	
	12.6673
	12.3010
	7. 8200
	12.2001
	5. 1001
	2. 2001
	12.5001
NE GEAR OIL	9. 1475
TER ENGINE	12.6590
TER HAND	12.6630
	4. 1001
	5. 6001
	12.6305
	12.3001
RTING FLUID	
	12.6380

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ALPHABETICAL INDEX

PART NAME	GROUP NO.
R	
RACK ASSY., INJECTOR	2. 1170
RADIATOR ASSY.	5. 3001
RAIL, ENGINE MOUNTING	11.1050
RECONDITIONING KIT, FRESH WATER PUMP	5. 1002
RECONDITIONING KIT, RAW WATER PUMP	5. 6025
REGULATOR, VOLTAGE	7. 1605
RELAY, ALARM BELL	7. 4514
RELAY, TIME DELAY	7. 4707
REPLACEMENT KIT, FRESH WATER PUMP SEAL SEAT	5. 1115
REPLACEMENT KIT, RAW WATER PUMP SEAL AND IMPELLER	5. 6220
RESERVOIR ASSY., GOVERNOR OIL	2. 8905
RESERVOIR ASSY., STARTING AID	12.6410
RESERVOIR, HYDRAULIC STARTER	12.6551
RETAINER ASSY., ACCESSORY DRIVE	1. 7645
RETAINER OIL FILTER TUBE ADAPTOR BYPASS VALVE SPRING	4. 3060
RETAINER, BILGE PUMP SHAFT BEARING	12.2120
RETAINER, BLOWER DRIVE COUPLING	3. 4420
RETAINER, BLOWER DRIVE SHAFT	3. 4450
RETAINER, BLOWER ROTOR FRONT BEARING	3. 4050
RETAINER, BLOWER ROTOR OIL SEAL	3. 4042
RETAINER, BLOWER ROTOR REAR BEARING	3. 4070
RETAINER, CAM AND BALANCE SHAFT GEAR NUT	1. 7207
RETAINER, CAM OR BALANCE GEAR	1. 7633
RETAINER, CAM OR BLANCER GEAR	5. 6413
RETAINER, CLUTCH DRIVE SHAFT BEARING	8. 1690
RETAINER, CLUTCH PILOT BEARING	1. 4045
RETAINER, CRANKSHAFT PULLEY	1. 3290
RETAINER, CYLINDER PISTON SPRING	2. 9082
RETAINER, DRIVE PULLEY HUB OIL SEAL	1. 7615
RETAINER, FAN SHAFT BEARING	5. 4140
RETAINER, GENERATOR DRIVE BEARING AND OIL SEAL	7. 1520
RETAINER, GOVERNOR DRIVE SHAFT BEARING	2. 8850
RETAINER, GOVERNOR FUEL ROD SPRING	2. 8140
RETAINER, GOVERNOR HIGH SPEED SPRING	2. 7610
RETAINER, GOVERNOR PACKING SHUTDOWN SHAFT	2. 7155
RETAINER, GOVERNOR PACKING THROTTLE SHAFT	2. 7150
RETAINER, GOVERNOR VARIABLE SPEED SPRING	2. 7790
RETAINER, HEAT EXCHANGER SEAL	5. 5025
RETAINER, IDLER GEAR BEARING	1. 7227
RETAINER, IDLER PULLEY SHAFT BEARING	5. 1208
RETAINER, INJECTOR GEAR	2. 1190
RETAINER, OIL FILTER SPRING	4. 2315
RETAINER, OIL FILTER TUBE ADAPTOR BY-PASS VALVE SPRING	4. 3060
RETAINER, OUTPUT SHAFT BEARING	9. 1098
RETAINER, PISTON PIN	1. 6150
RETAINER, PUSH ROD	1. 8250
RETAINER, ROCKER COVER NAME PLATE	1. 8502
RETAINER, SPIDER DRIVE	9. 1014
RETAINER, TACHOMETER	7. 4063
RING SET, PISTON	1. 6115
RING, AIR COMPRESSOR DRIVE COUPLING	12.4055
RING, BLOWER DRIVE SHAFT	3. 4446
RING, BLOWER ROTOR OIL SEAL	3. 4044
RING, CLUTCH DRIVING	8. 1018
RING, CLUTCH REACTION PLATE SNAP	9. 1065
RING, CROSSHEAD PISTON SEAL	1. 6106
RING, CYLINDER SPRING RETAINER SNAP	2. 9083
RING, ENGINE FRONT TRUNNION MOUNTING SUPPORT CUSHION	11.1094
RING, GOVERNOR OIL PUMP HOUSING SEAL	2. 8700
R	
RING, HYDRAULIC STARTER ENGINE PUMP	12.6611
RING, INJECTOR HOLE TUBE SEAL	1. 2046
RING, INJECTOR SEAL	2. 1040
RING, PISTON COMPRESSION	1. 6120
RING, PISTON OIL CONTROL	1. 6130
RING, RAW WATER PUMP BEARING RETAINER	5. 6140
RING, RAW WATER PUMP SHAFT SEAL	5. 6176
RING, RAW WATER PUMP SHAFT SEAL FRICTION	5. 6175
RISER, GOVERNOR	2. 7380
RISER, GOVERNOR	8. 3420
ROCKER COVER	1. 8000A
ROD AND CLEVIS ASSY., THROTTLE CONTROL	2. 9280
ROD ASSY., GOVERNOR TO INJECTOR LINK	2. 7819
ROD ASSY., MASTER CYLINDER PISTON PUSH	12.6818
ROD, AIR INLET HOUSING SHUTDOWN RESET LEVER	3. 3115
ROD, AIR SHUTOFF SOLENOID CONTROL	7. 4538
ROD, ENGINE HOOD TIE	10.1080
ROD, ENGINE MOUNTING RAIL TIE	11.1052
ROD, GOVERNOR FUEL	2. 8070
ROD, PUSH	1. 8180
ROD, STARTING CONTROL	7. 4564
ROD, THROTTLE CONTROL LEVER TO BELL CRANK	2. 9720
ROLLER SET, CAM FOLLOWER	1. 8265
ROTOR ASSY., OIL PUMP	4. 1085
ROTOR ASSY., TURBOCHARGER	3. 5030
ROTOR, BLOWER IMPELLER	3. 4030
ROTOR, HYDRAULIC STARTER	12.6535
S	
SCREEN, AIR CLEANER	3. 1040
SCREEN, BLOWER	3. 4025
SCREEN, OIL PUMP INLET	4. 1530
SCREW ASSY., GOVERNOR BUFFER	2. 7810
SCREW, CONVERTER OIL FILTER COVER	8. 3876
SCREW, FAN BRACKET ADJUSTING	5. 4290
SCREW, FUEL FILTER COVER	2. 3410
SCREW, FUEL STRAINER COVER	2. 3120
SCREW, GOVERNOR HI-SPEED STOP	2. 8520
SCREW, GOVERNOR HIGH SPEED CONTROL	2. 7655
SCREW, GOVERNOR LOAD LIMIT	2. 8180
SCREW, GOVERNOR LOW SPEED SPRING ADJUSTING	2. 7590
SCREW, INJECTOR CONTROL TUBE LEVER PLATE-LOAD LIMIT ADJUSTING	2. 9021
SEAL RING, AIR HEATER PUMP PLUNGER	7. 8215
SEAL RING, STARTING AID PUMP PLUNGER	12.6312
SEAL, ACCESSORY DRIVE OIL	1. 7660
SEAL, AIR CLEANER BOLT	3. 1075
SEAL, AIR COMPRESSOR DRIVE	12.4051
SEAL, AIR INLET HOUSING SHUTDOWN VALVE SHAFT	3. 3055
SEAL, BALANCE WEIGHT COVER OIL	1. 7472
SEAL, BLOWER DRIVE COVER	3. 4220
SEAL, BLOWER HOUSING END PLATE	3. 4160
SEAL, BLOWER ROTOR RETAINER OIL	3. 4041
SEAL, CAMSHAFT OIL	1. 7060
SEAL, CRANKSHAFT OIL SEAL - REAR	1. 5004
SEAL, CRANKSHAFT OIL-FRONT	1. 3040
SEAL, CRANKSHAFT OIL-REAR	1. 3060
SEAL, CRANKSHAFT OIL-REAR	1. 5004
SEAL, CYLINDER LINER	1. 6190
SEAL, DRIVE PULLEY HUB OIL	1. 7620
SEAL, FAN SHAFT	5. 4150
SEAL, FLYWHEEL OIL	1. 4008
SEAL, FORWARD CLUTCH PISTON	9. 1230

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ALPHABETICAL INDEX

PART NAME	GROUP NO.
S	
SEAL, FRESH WATER PUMP	5. 1130
SEAL, FUEL PUMP OIL	2. 2070
SEAL, GASKET OVERSPEED TRIP GOVERNOR HOUSING COVER OIL	7. 4636
SEAL, GENERATOR DRIVE OIL	7. 1515
SEAL, GOVERNOR	2. 7945
SEAL, GOVERNOR OPERATING SHAFT OIL	2. 7265
SEAL, GOVERNOR SPEED ADJUSTING SHAFT OIL	2. 8350
SEAL, GOVERNOR SPEED ADJUSTING TERMINAL SHAFT OIL	2. 8472
SEAL, GOVERNOR SPEED CONTROL PISTON	2. 7737
SEAL, HEAT EXCHANGER	5. 5026
SEAL, HYDRAULIC PUMP OIL	9. 1505
SEAL, HYDRAULIC STARTER ACCUMULATOR CAP	12.6574
SEAL, HYDRAULIC STARTER ACCUMULATOR PISTON	12.6582
SEAL, HYDRAULIC STARTER ENGINE PUMP OIL	12.6603
SEAL, IDLER PULLEY SHAFT	5. 1207
SEAL, MARINE GEAR INPUT SHAFT	9. 1018
SEAL, OVERSPEED TRIP GOVERNOR MOUNTING OIL	7. 4644
SEAL, RAW WATER PUMP BEARING	5. 6160
SEAL, RAW WATER PUMP SHAFT	5. 6170
SEAL, REDUCTION GEAR BEARING OIL COVER	9. 1375
SEAL, REVERSE CLUTCH PISTON	9. 1035
SEAL, ROTOR ASSY. SHAFT OIL	3. 5028
SEAL, SELECTOR VALVE OIL	9. 1160
SEAL, SELECTOR VALVE STEM	9. 1139
SEAL, TACHOMETER DRIVE COVER	7. 4450
SEAL, TACHOMETER DRIVE COVER ADAPTOR	7. 4458
SEAL, THERMOSTAT	5. 2060
SEAL, THERMOSTAT HOUSING OUTLET ELBOW	5. 2093
SEAT, BLOWER DRIVE COUPLING SPRING	3. 4410
SEAT, EXHAUST VALVE SPRING	1. 8360
SEAT, FUEL FILTER ELEMENT	2. 3322
SEAT, GOVERNOR LOW SPEED SPRING	2. 7570
SEAT, HYDRAULIC STARTER ENGINE PUMP RELIEF VALVE SPRING	12.6623
SEAT, INJECTOR VALVE	2. 1247
SEAT, INJECTOR VALVE SPRING	2. 1255
SEAT, PUSH ROD SPRING-LOWER	1. 8210
SEAT, PUSH ROD SPRING-UPPER	1. 8200
SEAT, RAW WATER PUMP SHAFT SEAL	5. 6173
SERVICE KIT, INJECTOR	2. 1002
SHAFT AND CARRIER ASSY., GOVERNOR WEIGHT	2. 7350
SHAFT ASSY., CONTROL LINK OPERATING	2. 8811
SHAFT ASSY., FRESH WATER PUMP	5. 1050
SHAFT ASSY., GOVERNOR DRIVEN	2. 8790
SHAFT ASSY., GOVERNOR OPERATING	2. 7250
SHAFT ASSY., GOVERNOR SHUTDOWN	2. 7115
SHAFT ASSY., GOVERNOR THROTTLE	2. 7095
SHAFT ASSY., OUTPUT	9. 1089
SHAFT ASSY., ROCKER	1. 8160
SHAFT ASSY., TACHOMETER DRIVE FLEXIBLE	7. 4405
SHAFT ASSY., TURBOCHARGER ROTOR	3. 5033
SHAFT, ACCESSORY DRIVE	1. 7640
SHAFT, AIR COMPRESSOR DRIVE	12.4047
SHAFT, AIR INLET HOUSING SHUTDOWN VALVE	3. 3050
SHAFT, AIR SHUTDOWN VALVE	3. 4422
SHAFT, BALANCE	1. 7080
SHAFT, BLOWER DRIVE	3. 4445
SHAFT, BLOWER ROTOR	3. 4035
SHAFT, CLUTCH DRIVE	8. 1670
SHAFT, CLUTCH FORWARD AND REVERSE TWIN DISC	9. 1032
SHAFT, CLUTCH RELEASE	8. 1270
SHAFT, FAN	5. 4100
SHAFT, FAN BELT IDLER	5. 1241
SHAFT, FUEL PUMP	2. 2033
SHAFT, FUEL PUMP	2. 2039
SHAFT, GENERATOR	7. 1530
SHAFT, GOVERNOR	2. 7835
SHAFT, GOVERNOR TO GOVERNOR	2. 7862
SHAFT, GOVERNOR	2. 8320
SHAFT, GOVERNOR	2. 7795
SHAFT, GOVERNOR	2. 7755
SHAFT, GOVERNOR	2. 7730
SHAFT, GOVERNOR	2. 7770
SHAFT, GOVERNOR TERMINAL	2. 7770
SHAFT, GOVERNOR LEVER	2. 7720
SHAFT, GOVERNOR	2. 7730
SHAFT, HYDRAULIC	9. 1032
SHAFT, HYDRAULIC	9. 1012
SHAFT, HYDRAULIC	12.6600
SHAFT, INJECTOR	2. 1207
SHAFT, MARINE GEAR	9. 1016
SHAFT, OIL PUMP	9. 0
SHAFT, OIL PUMP	
SHAFT, OUTPUT	
SHAFT, OVERSPEED	
SHAFT, POWER TAKE	
SHAFT, RAW WATER	
SHAFT, REDUCTION	9. 1
SHAFT, TACHOMETER	7. 4414
SHAFT, TACHOMETER	7. 4455
SHAFT, THROTTLE	2. 7110
SHAFT, THROTTLE SOLENOID DRIVE	2. 7167
SHAFT, THROTTLE GOVERNOR	2. 7730
SHAFT, VERNIER THROTTLE	2. 7740
SHELL ASSY., RADIATOR	5. 4115
SHELL, BREATHER	2. 2155
SHELL, CONNECTING	2. 1200
SHELL, CONVERTER	9. 1074
SHELL, CRANKSHAFT	9. 1090
SHELL, FUEL FILTER	2. 2130
SHELL, FUEL STRAINER	2. 2150
SHELL, HYDRAULIC	9. 1072
SHELL, OIL FILTER	2. 2130
SHIELD HEAT	5. 4101
SHIELD, GENERATOR	7. 1505
SHIELD, RAW WATER	5. 6110
SHIELDING, FLEXIBLE	7. 4455
SHIM, BILGE PUMP	5. 1710
SHIM, BLOWER ROTOR	3. 4080
SHIM, FLYWHEEL HOUSING	6. 0112
SHIM, GOVERNOR	2. 7900
SHIM, GOVERNOR	2. 7900
SHIM, OIL PUMP	2. 2070
SHROUD, FAN	5. 4100
SILENCER, AIR	3. 4171
SLEEVE ASSY., OUTPUT	9. 1042
SLEEVE, CLUTCH RELEASE	8. 1265
SLEEVE, CRANKSHAFT	6. 0106
SLEEVE, CRANKSHAFT	6. 0103
SLEEVE, GOVERNOR	2. 7750
SLEEVE, GOVERNOR	2. 7750
SLEEVE, GOVERNOR TERMINAL	2. 7750
SLEEVE, OVERSPEED	9. 1

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ALPHABETICAL INDEX

PART NAME	GROUP NO.
S	
SLINGER, CAMSHAFT OIL	1. 7061
SLINGER, RAW WATER PUMP SHAFT	5. 6200
SLINGER, TACHOMETER DRIVE SHAFT OIL	7. 4440
SOCKET LAMP-INSTRUMENT PANEL LAMP	7. 4105
SOLENOID, AIR SHUTOFF OR GOVERNOR	7. 4519
SOLENOID, THROTTLE CONTROL	2. 9355
SPACER, ACCESSORY DRIVE OIL SEAL	1. 7665
SPACER, BLOWER ROTOR GEAR	3. 4100
SPACER, BLOWER ROTOR SHAFT OIL SEAL	3. 4163
SPACER, CAMSHAFT AND BALANCE SHAFT GEAR	1. 7202
SPACER, CAMSHAFT OIL SEAL	1. 7062
SPACER, CLUTCH DRIVE SHAFT BEARING RETAINER	8. 1695
SPACER, CRANKSHAFT FRONT OIL SEAL	1. 3055
SPACER, CRANKSHAFT REAR OIL SEAL	1. 3065
SPACER, FAN SHAFT BEARING	5. 4170
SPACER, GENERATOR ADJUSTING STRAP	7. 1581
SPACER, GENERATOR AND MOUNTING BRACKET	7. 1598
SPACER, GENERATOR DRIVE BELT AND PULLEY GUARD	7. 1590
SPACER, GENERATOR DRIVE PULLEY SHAFT BEARING	7. 1540
SPACER, GENERATOR DRIVEN PULLEY	7. 1503
SPACER, GENERATOR VOLTAGE REGULATOR PLATE	7. 1615
SPACER, GOVERNOR DRIVE SHAFT BEARING	2. 8840
SPACER, GOVERNOR WEIGHT SHAFT	2. 7475
SPACER, IDLER GEAR HOLE	1. 7260
SPACER, IDLER PULLEY SHAFT BEARING	5. 1209
SPACER, INJECTOR CONTROL TUBE LEVER	2. 9010
SPACER, OIL FILTER	4. 2270
SPACER, OIL PUMP BODY	4. 1060
SPACER, RADIATOR MOUNTING	5. 3250
SPACER, RAW WATER PUMP DRIVE	5. 6450
SPACER, REDUCTION GEAR DRIVE SHAFT BEARING	9. 1351
SPACER, TURBOCHARGER ROTOR THRUST	3. 5035
SPEED, TRIP GOVERNOR SWITCH HOUSING	7. 4681
SPIDER AND SHAFT ASSY., GOVERNOR OPERATING	8. 3400
SPIDER, MARINE GEAR DRIVE	9. 1009
SPRING, AIR HEATER PUMP	7. 8265
SPRING, AIR INLET HOUSING SHUTDOWN VALVE TENSION	3. 3070
SPRING, AIR SHUTDOWN VALVE	3. 4426
SPRING, AIR SHUTOFF RESET LATCH	7. 4560
SPRING, BLOWER DRIVE COUPLING	3. 4400
SPRING, BLOWER ROTOR OIL SEAL	3. 4043
SPRING, CLUTCH PRESSURE PLATE RETURN	8. 1135
SPRING, CLUTCH TOGGLE LEVER	8. 1100
SPRING, EXHAUST VALVE	1. 8340
SPRING, EXTENSION STARTER HANDLE RETURN	12.6821
SPRING, FAN BELT IDLER PULLEY SUPPORT SHAFT	5. 4353
SPRING, FAST IDLE AIR CYLINDER	2. 7870
SPRING, FLEXIBLE SHAFT CASING	12.8512
SPRING, FORWARD CLUTCH RELEASE	9. 1240
SPRING, FUEL FILTER ELEMENT	2. 3370
SPRING, FUEL PUMP VALVE RETAINING	2. 2160
SPRING, FUEL STRAINER	2. 3060
SPRING, GOVERNOR CONTROL RETRACTING	2. 9405
SPRING, GOVERNOR FUEL ROD SHORT	2. 8120
SPRING, GOVERNOR HIGH SPEED	2. 7550
SPRING, GOVERNOR LOW SPEED	2. 7540
SPRING, GOVERNOR RELIEF VALVE	2. 8680
SPRING, GOVERNOR SHUTDOWN SHAFT	2. 7117
SPRING, GOVERNOR SPEED ADJUSTING	8. 3465

PART NAME	GROUP NO.
S	
SPRING, GOVERNOR SPEEDER	2. 8530
SPRING, GOVERNOR THROTTLE LEVER RETURN	2. 7910
SPRING, GOVERNOR THROTTLE SHAFT ARM RETURN	2. 7093
SPRING, GOVERNOR THROTTLE SPEED ADJUSTING	2. 7174
SPRING, GOVERNOR VARIABLE SPEED	2. 7760
SPRING, HYDRAULIC STARTER CONTROL SHAFT TORSION	12.6513
SPRING, HYDRAULIC STARTER ENGINE PUMP PISTON	12.6608
SPRING, HYDRAULIC STARTER ENGINE PUMP RELIEF VALVE	12.6622
SPRING, INJECTOR CONTROL AIR CYLINDER	2. 9097
SPRING, INJECTOR CONTROL TUBE	2. 9012
SPRING, INJECTOR CONTROL TUBE THROTTLE	2. 9011
SPRING, INJECTOR FILTER	2. 1120
SPRING, INJECTOR PLUNGER	2. 1080
SPRING, INJECTOR VALVE	2. 1250
SPRING, OIL COOLER BYPASS VALVE	4. 4150
SPRING, OIL FILTER	4. 2310
SPRING, OIL FILTER BYPASS VALVE	4. 2486
SPRING, OIL FILTER BYPASS VALVE	8. 3886
SPRING, OIL FILTER TUBE ADAPTOR BY-PASS VALVE	4. 3057
SPRING, OIL FILTER TUBE ADAPTOR BYPASS	4. 3057
SPRING, OIL PRESSURE REGULATOR	4. 1690
SPRING, OIL PRESSURE RELIEF VALVE	4. 1583
SPRING, OIL PUMP RELIEF VALVE	4. 1260
SPRING, OVERSPEED TRIP GOVERNOR HIGH OR LOW SPEED	7. 4651
SPRING, OVERSPEED VALVE PISTON	7. 4737
SPRING, PRESSURE REGULATOR RELIEF VALVE	9. 1195
SPRING, PUSH ROD	1. 8190
SPRING, RAW WATER PUMP GUIDE TUBE	5. 6660
SPRING, RAW WATER PUMP HANDLE	5. 6680
SPRING, RAW WATER PUMP SHAFT SEAL	5. 6178
SPRING, RESET LEVER ROD	3. 3125
SPRING, REVERSE CLUTCH RELEASE	9. 1055
SPRING, SELECTOR RELIEF VALVE	9. 1147
SPRING, SELECTOR VALVE PRESSURE	9. 1155
SPRING, SPEED ADJUSTING SHAFT TORSION	2. 8355
SPRING, STARTING CONTROL ROD RETRACTING	7. 4570
SPRING, THROTTLE BOOSTER	2. 7980
SPRING, THROTTLE BOOSTER	2. 9347
SPRING, VERNIER THROTTLE CONTROL LOCK	2. 9138
SPRING, VERNIER THROTTLE CONTROL LOCK BUTTON PIN	2. 9147
SPRING, WATER FILTER	5. 7026
STABILIZER, CRANKSHAFT MAIN BEARING CAP	1. 3112
STAKING AND FERRULE, ROLLING TOOL FLEXIBLE SHAFT	12.8518
STARTER ASSY., HYDRAULIC	12.6501
STEM, SELECTOR VALVE	9. 1138
STOP, GOVERNOR VARIABLE SPEED SPRING RETAINER	2. 7795
STOP, INJECTOR VALVE	2. 1260
STRAINER AND PLUG ASSY., STARTING FLUID	12.6385
STRAINER ASSY., FUEL	2. 3001
STRAINER ASSY., OIL MARINE GEAR	9. 1650
STRAINER, AIR COMPRESSOR	12.4300
STRAINER, AIR COMPRESSOR ON COMPRESSOR	12.4300
STRAINER, FUEL TANK HOSE	2. 6007
STRAINER, OIL FILLER TUBE	4. 5020
STRAP, ACCUMULATOR MOUNTING	12.6682
STRAP, AIR CLEANER MOUNTING	3. 1220
STRAP, AIR SILENCER MOUNTING	3. 2014

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ALPHABETICAL INDEX

PART NAME	GROUP NO.
S	
STRAP, ENGINE TO BASE GROUND	7. 7110
STRAP, FUEL TANK	2. 6065
STRAP, GENERATOR ADJUSTING	7. 1580
STRAP, HYDRAULIC STARTER RESERVOIR	12.6552
STRAP, STARTING MOTOR GROUND SWITCH	7. 3242
STUD, BILGE PUMP BODY	12.2020
STUD, BILGE PUMP SHAFT PACKING GLAND	12.2080
STUD, CYLINDER HEAD	1. 2030
STUD, EXHAUST MANIFOLD TO HEAD	6. 1020
STUD, EXHAUST OUTLET	6. 2115
STUD, GOVERNOR OIL PUMP DRIVEN GEAR TO BASE	2. 8740
STUD, OIL FILTER CENTER	4. 2410
SUB-CAP ASSY., GOVERNOR	2. 8050
SUPPORT ASSY., FAN BELT IDLER PULLEY	5. 4347
SUPPORT, AIR CLEANER MOUNTING BRACKET	3. 1250
SUPPORT, AIR SILENCER	3. 2010
SUPPORT, BLOWER DRIVE COUPLING	3. 4380
SUPPORT, BLOWER DRIVE GEAR HUB	3. 4350
SUPPORT, BREATHER TUBE CLIP	4. 8042
SUPPORT, ENGINE FRONT	11.1070
SUPPORT, ENGINE FRONT TRUNNION MOUNTING	11.1090
SUPPORT, ENGINE REAR	11.1100
SUPPORT, ENGINE REAR HOOD	10.1025
SUPPORT, EXHAUST PIPE	6. 2091
SUPPORT, FAN MOUNTING	5. 4025
SUPPORT, FUEL STRAINER MOUNTING BRACKET	2. 3263
SUPPORT, FUEL SYSTEM SHUTOFF VALVE	2. 5270
SUPPORT, GENERATOR MOUNTING	11.1190
SUPPORT, INPUT SHAFT BEARING	9. 1024
SUPPORT, INSTRUMENT PANEL	7. 4013
SUPPORT, OIL FILTER MOUNTING	4. 2470
SUPPORT, OIL PUMP INLET TUBE	4. 1512
SUPPORT, POWER TAKE-OFF	8. 1895
SUPPORT, THROTTLE CONTROL BRACKET	2. 9175
SUPPORT, TORQUE CONVERTER	8. 3270
SUPPORT, VACUUM PUMP	12.3020
SWITCH, ALARM SHUTOFF-FUEL	7. 4598
SWITCH, ENGINE STARTING	7. 4115
SWITCH, OIL PRESSURE	7. 4125
SWITCH, OIL PRESSURE	7. 4586
SWITCH, OVERSPEED TRIP GOVERNOR	7. 4659
SWITCH, SHUTDOWN SOLENOID MICRO	7. 4520
SWITCH, TRANSMISSION OIL TEMPERATURE	4. 4360
SWITCH, WATER HEATER CONTROL	12.6405
SWITCH, WATER TEMPERATURE	7. 4128
SWITCH, WATER TEMPERATURE	7. 4505
T	
TACHOMETER	7. 4060
TANK AND STRAINER ASSY., STARTING AID	12.6355
TANK ASSY., AIR BOX AND FUEL PUMP DRAIN	1. 1150
TANK ASSY., FUEL	2. 6001
TANK EXPANSION	5. 5001
THERMOSTAT	5. 2000B
THERMOSTAT ASSY.	5. 2050
TIP ASSY., INJECTOR SPRAY	2. 1235
TIP KIT, INJECTOR SPRAY	2. 1220
TIP, FLEXIBLE SHAFT LOWER	12.8506
TIP, FLEXIBLE SHAFT UPPER	12.8508
TIP, INJECTOR SPRAY	2. 1230
TRANSMISSION ASSY.	9. 7001
TRUNNION, ENGINE FRONT	11.1088
TUBE & ELBOW ASSY., AIR COMPRESSOR BOOSTER INLET	12.4375
TUBE ASSY., ADAPTOR TO OUTLET ELBOW	7. 4686

PART NAME	GROU
T	
TUBE ASSY., ADAPTOR TO WATER PUMP	7. 46
TUBE ASSY., CYLINDER HEAD AIR INLET	2. 90
TUBE ASSY., CYLINDER INLET	2. 90
TUBE ASSY., FUEL PUMP DRAIN	2. 23
TUBE ASSY., GOVERNOR BEARING LUBRICATION	2. 78
TUBE ASSY., INJECTOR CONTROL	2. 90
TUBE, AIR BOX DRAIN	1. 11
TUBE, AIR COMPRESSOR BOOSTER	12.43
TUBE, AIR COMPRESSOR LUBE OIL DRAIN	12.40
TUBE, AIR COMPRESSOR LUBE OIL SUPPLY	12.40
TUBE, AIR COMPRESSOR WATER INLET	12.40
TUBE, AIR COMPRESSOR WATER OUTLET	12.40
TUBE, AIR HEATER FUEL RETURN	7. 83
TUBE, AIR HEATER INLET	7. 83
TUBE, AIR HEATER PUMP INLET	7. 83
TUBE, BATTERY BOX HEATER	7. 84
TUBE, BREATHER TUBE TO DRAIN TANK	4. 81
TUBE, CONTROL VALVE TO HYDRAULIC PUMP HOUSING	9. 15
TUBE, CONVERTER TO FILTER	8. 38
TUBE, CONVERTER TO OIL COOLER	8. 38
TUBE, CYLINDER HEAD VENT	5. 34
TUBE, EXHAUST MANIFOLD FRESH WATER OUTLET	5. 34
TUBE, EXHAUST MANIFOLD WATER-INLET	7. 46
TUBE, EXHAUST MANIFOLD WATER-OUTLET	7. 46
TUBE, EXPANSION TANK OVERFLOW	5. 51
TUBE, FILTER OUTLET	2. 51
TUBE, FILTER TO CYLINDER HEAD	2. 51
TUBE, FILTER TO OIL COOLER	8. 38
TUBE, FRESH WATER PUMP VENT	5. 10
TUBE, FUEL COOLER	2. 52
TUBE, FUEL DRAIN	2. 52
TUBE, FUEL DRAIN CROSSOVER	2. 52
TUBE, FUEL PUMP TO CYLINDER HEAD	2. 51
TUBE, FUEL PUMP TO FILTER	2. 51
TUBE, FUEL SUPPLY CROSSOVER	2. 51
TUBE, FUEL SUPPLY TO STRAINER	2. 50
TUBE, FUEL TANK SUCTION	2. 60
TUBE, GOVERNOR OPERATING PRESSURE	2. 89
TUBE, GOVERNOR OPERATING SHAFT	2. 72
TUBE, HEAD TO BLOWER BREATHER	4. 80
TUBE, HEAT EXCHANGER RAW WATER INLET INTERMEDIATE	5. 54
TUBE, HEAT EXCHANGER WATER INLET	5. 54
TUBE, HEAT EXCHANGER WATER OUTLET	5. 55
TUBE, HYDRAULIC GEAR OIL STRAINER TO PUMP	9. 17
TUBE, HYDRAULIC PUMP TO CONTROL VALVE	9. 15
TUBE, HYDRAULIC STARTER ACCUMULATOR TO HYDRAULIC STARTER	12.68
TUBE, HYDRAULIC STARTER HAND PUMP TO ACCUMULATOR	12.68
TUBE, INJECTOR HOLE	1. 20
TUBE, JUNCTION BLOCK INLET	4. 15
TUBE, JUNCTION BLOCK TO CYLINDER HEAD	2. 51
TUBE, LOW OIL PRESSURE SWITCH	4. 24
TUBE, OIL COOLER TO CONVERTER	8. 38
TUBE, OIL FILLER	4. 50
TUBE, OIL FILTER INLET	4. 30
TUBE, OIL FILTER OUTLET	4. 30
TUBE, OIL PAN DRAIN	4. 71
TUBE, OIL PRESSURE GAGE	4. 15
TUBE, OIL PRESSURE GAGE FOR CUSTOMER GAGE CONNECTOR TO SELECTOR VALVE HOUSING FLANGE	9. 17
TUBE, OIL PRESSURE GAGE-ENGINE	7. 40
TUBE, OIL PRESSURE GAGE-MARINE	4. 15

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ALPHABETICAL INDEX

PART NAME	GROUP NO.
T	
TUBE, OIL PRESSURE SWITCH	7. 4596
TUBE, OIL PRESSURE SWITCH RETURN	7. 4597
TUBE, OVERSPEED GOVERNOR OIL SUPPLY	7. 4668
TUBE, OVERSPEED VALVE AIR PRESSURE	7. 4744
TUBE, OVERSPEED VALVE OIL DRAIN	7. 4748
TUBE, OVERSPEED VALVE OIL SUPPLY	7. 4746
TUBE, RAW WATER PUMP GUIDE	5. 6670
TUBE, RAW WATER PUMP INLET	5. 5377
TUBE, RAW WATER PUMP OUTLET	5. 5380
TUBE, REDUCTION GEAR OIL FILLER	9. 1410
TUBE, SOLENOID VALVE DRAIN	2. 7930
TUBE, SOLENOID VALVE SUPPLY	2. 7925
TUBE, SOLENOID VALVE TO GOVERNOR	2. 7927
TUBE, STARTING AID PUMP TO NOZZLE	12.6370
TUBE, STARTING AID TANK TO PUMP	12.6365
TUBE, STRAINER TO FUEL PUMP	2. 5050
TUBE, THERMOSTAT HOUSING VENT	5. 2135
TUBE, THROTTLE CONTROL CROSS SHAFT	2. 9312
TUBE, TURBOCHARGER OIL RETURN	3. 5505
TUBE, TURBOCHARGER OIL SUPPLY	3. 5500
TUBE, VACUUM PUMP OIL DRAIN	12.3050
TUBE, VACUUM PUMP OIL SUPPLY	12.3040
TUBE, WATER BYPASS	5. 2160
TUBE, WATER HEATER OUTLET	12.6408
TUBE, WATER HEATER SUPPLY	12.6407
TURBOCHARGER	3. 5001
V	
VALVE ASSY., AIR HEATER PUMP SUPPLY SHUTOFF	7. 8295
VALVE ASSY., BLOWER (MINI-BYPASS)	3. 4144
VALVE ASSY., FUEL PUMP	2. 2130
VALVE ASSY., FUEL PUMP CHECK	2. 2035
VALVE ASSY., GOVERNOR RELIEF	2. 8630
VALVE ASSY., HYDRAULIC STARTER ASSY. CONTROL	12.6516
VALVE ASSY., INJECTOR	2. 1240
VALVE ASSY., MASTER CYLINDER CHECK	12.6816
VALVE ASSY., OVERSPEED	7. 4725
VALVE ASSY., SELECTOR	9. 1135
VALVE KIT, GOVERNOR RELIEF	2. 8635
VALVE KIT, INJECTOR	2. 1238
VALVE MECHANISM	1. 8000
VALVE, AIR CYLINDER CONTROL	2. 9859
VALVE, AIR HEATER PUMP-OUTLET	7. 8280
VALVE, AIR INLET HOUSING SHUTDOWN	3. 3040
VALVE, AIR SHUTDOWN	3. 4421
VALVE, AUTOMATIC SHUTDOWN AND ALARM SOLENOID	7. 4652
VALVE, EXHAUST	1. 8310
VALVE, FUEL SUPPLY CHECK	2. 5006
VALVE, FUEL SYSTEM SHUTOFF	2. 5260
VALVE, FUEL TANK CHECK	2. 6090
VALVE, GOVERNOR DUAL SPEED CONTROL SOLENOID	2. 7920
VALVE, HYDRAULIC STARTER ACCUMULATOR	12.6576
VALVE, HYDRAULIC STARTER CONTROL	12.6518
VALVE, HYDRAULIC STARTER ENGINE PUMP CHECK	12.6615
VALVE, HYDRAULIC STARTER ENGINE PUMP RELIEF	12.6620
VALVE, HYDRAULIC STARTER HAND PUMP CHECK	12.6640
VALVE, HYDRAULIC STARTER HAND PUMP RELIEF	12.6635
VALVE, HYDRAULIC STARTER HAND PUMP SHUTOFF	12.6650
V	
VALVE, INJECTOR	2. 1245
VALVE, INJECTOR CHECK	2. 1200
VALVE, MARINE GEAR PRESSURE REGULATOR	9. 1021
VALVE, OIL COOLER BYPASS	4. 4140
VALVE, OIL COOLER PRESSURE REGULATOR	9. 1019
VALVE, OIL FILTER BYPASS	4. 2400
VALVE, OIL FILTER BYPASS	4. 2485
VALVE, OIL FILTER BYPASS	8. 3884
VALVE, OIL FILTER TUBE ADAPTOR BY-PASS	4. 3055
VALVE, OIL FILTER TUBE ADAPTOR BYPASS	4. 3055
VALVE, OIL PRESSURE REGULATOR	4. 1700
VALVE, OIL PRESSURE RELIEF	4. 1582
VALVE, OIL PUMP RELIEF	4. 1250
VALVE, PRESSURE REGULATOR RELIEF	9. 1194
VALVE, SELECTOR	9. 1137
VALVE, STARTING AID PUMP-INLET	12.6340
VALVE, STARTING AID PUMP-OUTLET	12.6345
VENT, EXHAUST MANIFOLD WATER OUTLET FLANGE	5. 3465
VENTILATION	4. 8000A
W	
WASHER, BLOWER DRIVE GEAR HUB THRUST	3. 4320
WASHER, BLOWER ROTOR SHAFT THRUST	3. 4036
WASHER, CAM AND BALANCE SHAFT END BEARING THRUST	1. 7030
WASHER, CRANKSHAFT MAIN BEARING THRUST	1. 3100
WASHER, FLEXIBLE SHAFT TIP RETAINING	12.8510
WASHER, FORWARD CLUTCH CYLINDER THRUST	9. 1224
WASHER, FUEL PIPE CONNECTOR	2. 4050
WASHER, GOVERNOR SHUTDOWN SHAFT	2. 7145
WASHER, GOVERNOR THROTTLE SHAFT	2. 7140
WASHER, PLANETARY GEAR THRUST	9. 1085
WASHER, REDUCTION GEAR PLANETARY GEAR THRUST	9. 1293
WASHER, THROTTLE CONTROL TUBE BRAKE	2. 9105
WATER CONNECTIONS	
WATER HEATER, KIM HOT-START	12.6403
WATER PUMP	5. 1000
WEIGHT AND CARRIER ASSY., OVERSPEED TRIP GOVERNOR	7. 4623
WEIGHT ASSY., GOVERNOR	8. 3405
WEIGHT, FRONT BALANCE	1. 7140
WEIGHT, GOVERNOR	2. 7390
WEIGHT, OVERSPEED TRIP GOVERNOR	7. 4625
WEIGHT, REAR BALANCE	1. 7190
WHEEL, TURBOCHARGER COMPRESSOR	3. 5036
WIRE ASSY., GENERATOR TO REGULATOR	7. 1630
WIRE, AIR INLET HOUSING SHUTDOWN CONTROL	3. 3250
WIRE, AIR SHUT-OFF CONTROL	3. 4429
WIRE, AIR SHUTOFF CONTROL-RESET	7. 4525
WIRE, GOVERNOR CONTROL	2. 9422
WIRE, GOVERNOR MANUAL SHUTDOWN LEVER	2. 7837
WIRE, STARTING AID CONTROL	12.6378
WORM, VERNIER THROTTLE CONTROL	2. 9139
Y	
YOKE, CLUTCH RELEASE	8. 1275
YOKE, HYDRAULIC STARTER CLUTCH	12.6508

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PART #		NAME AND DESCRIPTION	QUANTITY
1.1000 - CYLINDER BLOCK			
BLOCK, CYLINDER			
FOR COMPONENTS OF SERVICE CYLINDER BLOCK ASSEMBLIES REFER TO ASSEMBLY BREAK DOWN PAGES AS INDICATED BELOW.			
5149389		BLOCK ASSY., 4-53	1
BLOCK, CYLINDER			
114981		DRAINCOCK, 1/8" (12.9510)	2
141346		PIN, 3/16"X1/2" DOWEL (12.9290)	4
5101601		PLUG, .7525"X.40" CUP	2
5116142		CAP, MAIN BEARING (UNFINISHED) (1.3110)	5
5116199		BOLT, MAIN BEARING CAP (1.3140)	10
5146437		ELBOW, AIR BOX DRAIN TEE	1
5146900		PIN, 3/8"X1 1/8" DOWEL (12.9290)	4
5150131		PLUG, 7/16" CUP	2
5198984		BEARING SET, CAMSHAFT 4-53 (1.7010)	1
8923847		PLUG, PIPE 1/4-18" NPTF	1
8924380		PLUG, 1/8"-27 PIPE (12.9550)	7
8925004		TEE, 1/8" INV. FL. (7.4586)	1
8924380		PLUG, 1/8"-27 PIPE (12.9550)	7
8923847		PLUG, PIPE 1/4-18" NPTF	1
5121316		PLUG, .6275"X.40" CUP	2
5101601		PLUG, .7525"X.40" CUP	2
5150131		PLUG, 7/16" CUP	2
141346		PIN, 3/16"X1/2" DOWEL (12.9290)	4
5146900		PIN, 3/8"X1 1/8" DOWEL (12.9290)	4
8926979		DRAINCOCK, 1/8" (12.9510)	2
GASKET KIT, ENGINE OVERHAUL			
A GASKET KIT CONSISTS OF GASKETS NECESSARY FOR ONE ENGINE OVERHAUL. GASKET KITS DO NOT INCLUDE THE ADDITIONAL GASKETS REQUIRED FOR TURBOCHARGED ENGINES.			
23512689		GASKET KIT (ENGINE OVERHAUL,453)	AR
PLATE, CYLINDER BLOCK END-REAR			
A PLATE ASSY. INCLUDES PLUG NUTS.			
5121368		PLATE ASSY., 4-53 C & D ENGINE	1
5121459		NUT, 3/8"-24 PLUG (1.1020)	9
103321		LOCKWASHER, 3/8"	13
8927578		BOLT, 3/8"-16X.755" (12.9001)	13
GASKET, CYLINDER BLOCK END PLATE-FRONT			
5116354		GASKET, 3-4-53	1
COVER, CYLINDER BLOCK HAND HOLE			
5116374		COVER, 4-53 (ITEM 4)	1
180120		BOLT, 3/8"-16X3/4"	6
GASKET, CYLINDER BLOCK HAND HOLE COVER			
5116381		GASKET, 4-53 (ITEM 4)	1
COVER, CYLINDER BLOCK WATER HOLE			
5150023		COVER, PLAIN (3 10/32" L.)	1
103320		LOCKWASHER, 5/16"	2
179816		BOLT, 5/16"-18 X .75"	2
GASKET, CYLINDER BLOCK WATER HOLE COVER			
5116357		GASKET	1
1.1000A - AIR BOX DRAINS			
TUBE, AIR BOX DRAIN			
5132286		TUBE,3,4-53 (DEV. L. 12")	1
8925032	#	ELBOW, 1/4"-90 DEG. INV. FL. TUBE; 1/8" PIPE	1
137397		NUT, 1/4" INV. FL. TUBE	1
# EFFECTIVE WITH 6D-6340 IN TYPE 62.			
1.2000 - CYLINDER HEAD			
HEAD ASSY., CYLINDER			
FOR COMPONENTS OF SERVICE CYLINDER HEAD ASSEMBLIES REFER TO ASSEMBLY BREAKDOWN PAGE A1.			
R5198202		REMANUFACTURED 5198202	AR

PART #		NAME AND DESCRIPTION	QUANTITY
1.2000 - CYLINDER HEAD			
5198202		HEAD ASSY. (4 VALVE) 4-53, 8V53	1
HEAD ASSY., CYLINDER			
5104701		SEAL RING, INJECTOR HOLE TUBE (1.2046)	4
5111467		WASHER, SPECIAL (1.8360)	16
5116262		ADAPTOR, CYLINDER HEAD GOVERNOR CONTROL LINK	1
5119293		NOZZLE, WATER (DOUBLE OUTLET) (1.2005)	6
5121252		ADAPTOR (2.7830)	1
5131961		GUIDE, EXHAUST VALVE (1.8320)	16
5151449		PLUG, 13/16" CUP	3
5154453		PLUG, 3/8"-16 (12.001)	4
8921501		INSERT, EXHAUST VALVE (1.8330)	16
8923847		PLUG, PIPE 1/4-18" NPTF	6
8924380		PLUG, 1/8"-27 PIPE (12.9550)	2
8925981		TUBE KIT, INJECTOR HOLE (INCLUDES 5104701 SEAL RIN	4
8926347		PLUG, FUSE	1
8923847		PLUG, PIPE 1/4-18" NPTF	6
5151449		PLUG, 13/16" CUP	3
5154453		PLUG, 3/8"-16 (12.001)	3
5135165	NS	HEAD ASM CYL 4VLV INS GM76135M 4&8V53	1
HEAD ASSY., CYLINDER			
5104701		SEAL RING, INJECTOR HOLE TUBE (1.2046)	4
5119293		NOZZLE, WATER (DOUBLE OUTLET) (1.2005)	6
5131961		GUIDE, EXHAUST VALVE (1.8320)	16
5139997		PLUG, 7/8" CUP (1.2001)	5
5144425		ADAPTOR, CYLINDER HEAD FUSE PLUG	1
8921501		INSERT, EXHAUST VALVE (1.8330)	16
8925606		TUBE, INJECTOR HOLE	4
8926347		PLUG, FUSE	1
GASKET KIT, CYLINDER HEAD OVERHAUL			
CONSISTS OF ALL GASKETS NECESSARY TO REPLACE ONE CYLINDER HEAD.			
5199812		GASKET KIT, 4-53	AR
GASKET, CYLINDER HEAD COMPRESSION			
5121254		GASKET	4
GASKET, CYLINDER HEAD WATER AND OIL			
5116290		SEAL RING, .440"X.121" (SUPPLY) (1.2020)	4
5116122		RING, SEAL (OIL HOLE)	2
5121207		RING, SEAL (WATER HOLE CENTER)	6
5116293		RING, SEAL	1
STUD, CYLINDER HEAD			
5121263		BOLT, 5/8"-11X6 1/4" (12 PT. HD.)	10
COVER, CYLINDER HEAD WATER HOLE			
5136610		COVER, PLAIN (USE WITH 3/8"-16X1" BOLT)	1
5123168		COVER, 1/8" PIPE TAP (CENTERED)	1
5123352		COVER, 3/8" PIPE TAP	1
5127837		COVER, 1/8" PIPE TAP (OFF CENTER)	1
5129019		COVER, 1/4" PIPE TAP	1
8924517		PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)	1
103321		LOCKWASHER, 3/8"	2
179839		BOLT, 3/8"-16 X 1"	2
5109707		COVER, 1/4" AND 1/2" PIPE TAPS	1
8924380		PLUG, 1/8"-27 PIPE (12.9550)	1
8923847		PLUG, PIPE 1/4-18" NPTF	1
5115214		PLUG, 1/2"-14 PIPE (12.9550)	1
8927580		BOLT 3/8"-16X1.015" (12.9001)	2
GASKET, CYLINDER HEAD WATER HOLE COVER			
5116242		GASKET	1
TUBE, INJECTOR HOLE			
8925981		TUBE KIT, INJECTOR HOLE (INCLUDES 5104701 SEAL RIN 1) TUBE IS STAMPED ''606'' FOR IDENTIFICATION	4
RING, INJECTOR HOLE TUBE SEAL			
5104701		SEAL RING, INJECTOR HOLE TUBE (1.2046)	4
1.2000A - ENGINE, LIFTER BRACKET			

PART #		NAME AND DESCRIPTION	QUANTITY
1.2000A - ENGINE, LIFTER BRACKET			
BRACKET, ENGINE LIFTER-FRONT			
5129750		BRACKET (ITEM 1)	1
5164294		SPACER, 7/8"X13/32"X1/8" (7.1581)	2
8927581		BOLT, 3/8"-16X1.135" (12.9001)	2
BRACKET, ENGINE LIFTER-REAR			
FOR ENGINES EQUIPPED WITH A THROTTLE CONTROL CROSS SHAFT, REFER TO 2.9305 FOR THE COMBINATION THROTTLE CONTROL CROSS SHAFT AND REAR ENGINE LIFTER BRACKET.			
5119379		BRACKET (ITEM 7) (1.2070)	1
8927581		BOLT, 3/8"-16X1.135" (12.9001)	2
1.3000 - CRANKSHAFT, OIL SEALS AND STABILIZERS			
CRANKSHAFT ASSY.			
A CRANKSHAFT ASSY. INCLUDES PLUG AND DOWEL IN 1.3001. WHEN REPLACING A CRANKSHAFT ASSY. INCLUDE AN OIL PUMP DRIVE GEAR IN 4.1310 FOR A 2, 3, 4 & 6V.			
R5104549		REMANUFACTURED 5104549	AR
5104549		CRANKSHAFT ASSY, 4-53	1
8924380		PLUG, 1/8"-27 PIPE (12.9550)	4
SEAL, CRANKSHAFT OIL-FRONT			
5116224		SEAL,3,4,6V-53	1
5198503		SEAL (SINGLE LIP, O.S., USE WITH 5198502 SLEEVE)	1
SLEEVE, CRANKSHAFT FRONT OIL SEAL SPACER			
5198502		SLEEVE (USE WITH 5198503 SEAL) IN GRP. (1.3040)	1
SEAL, CRANKSHAFT OIL-REAR			
5116229		SEAL, SINGLE LIP.	1
5196852		SEAL, SGL LIP O.S. (USE W/5196851 SLEEVE)	AR
5199477		SEAL DBL LIP, O.S. (USE W/5196851 SLEEVE)	AR
SLEEVE, CRANKSHAFT REAR OIL SEAL			
5196851		SLEEVE (WITH O.S. OIL SEAL)	AR
SHELL, CRANKSHAFT MAIN BEARING			
A SHELL SET CONSISTS OF ONE UPPER AND ONE LOWER SHELL.			
5149447		SHELL SET, STD.-INLINE TURBO	AR
5149448		SHELL SET (.002" U.S.) INLINE TURBO	AR
5149449		SHELL SET (.010" U.S.) INLINE TURBO	AR
5149450		SHELL SET, (.020" U.S.) INLINE TURBO	AR
5149451		SHELL SET, (.030" U.S.) INLINE TURBO	AR
8922081		SHELL SET TURBO (.010" O.S. O.D. W/STD I.D.)	AR
8922084		SHELL SET, TURBO (.020" O.S. O.D. W/STD I.D.)	AR
WASHER, CRANKSHAFT MAIN BEARING THRUST			
5116197		WASHER, STD.-INLINE ENG	4
5196755		WASHER (.005" O.S.)	AR
5196756		WASHER (.010" O.S.)	AR
141346		PIN, 3/16"X1/2" DOWEL (12.9290)	4
5149149		PIN, 7/32"X1/2" DOWEL (1/32" O.S.)	AR
CAP, CRANKSHAFT MAIN BEARING			
5116142		CAP, MAIN BEARING (UNFINISHED) (1.3110)	AR
5195935		CAP, REAR MAIN, INLINE 53 (CAST IRON) (FINISHED)	AR
5149929		CAP, INTERMEDIATE INLINE 53 (CAST IRON) (FINISHED)	AR
BOLT, CRANKSHAFT MAIN BEARING CAP			
5116199		BOLT, MAIN BEARING CAP (1.3140)	10
GEAR, CRANKSHAFT TIMING			
5116195	*	GEAR,2,3,4,6V-53	1
8926247		KEY, 1/4"X3/4" WOODRUFF (12.9350)	1
* NOT SERVICED, SUPERSEDED BY 5107071 AND TO INSURE INTERCHANGEABILITY REPLACE ALL CORRESPONDING GEARS.			
1.3000C - CRANKSHAFT PULLEY			
PULLEY, CRANKSHAFT			

PART #		NAME AND DESCRIPTION	QUANTITY
1.3000C - CRANKSHAFT PULLEY			
5116484		PULLEY (5.38" DIA., 2 GROOVES) (ITEM 11)	1
RETAINER, CRANKSHAFT PULLEY			
5180291		RETAINER (WASHER)	1
8922884		DECAL, BOLT TORQUE	1
271632		BOLT, 3/4"-16X1 3/4" (12.9001)	1
5180629	*	BOLT, 3/4"-16X1.74"	1
* OPTIONAL HAS COUNTERBORE FOR HAND TACHOMETER.			
1.3000D - CRANKSHAFT PULLEY BELT			
BELT, CRANKSHAFT PULLEY DRIVE			
SIZES GIVEN ARE EFFECTIVE LENGTH AT WIDTH SHOWN. ALL BELTS ARE"PREMIUM" POL YESTER BELTS, UNLESS INDICATED (M.S.) "MILITARY STANDARD".			
5131395		BELT SET (2 BELTS, 41.00"L., .500" W.) (P)	1
1.4000A - FLYWHEEL			
FLYWHEEL ASSY.			
INCLUDES GEAR IN 1.4010."C" INDICATES A CHAMFERED ASSY., "NC" IS NON-CHAMF ERED.			
5124929		FLYWHEEL ASSY. (SAE #3) (NC)	1
5126671		PLATE, SCUFF	1
9412018		BOLT, 1/2"-20X2 1/4" LOCK	6
GEAR, FLYWHEEL RING			
5116301		GEAR (126 TEETH)	1
1.5000A - FLYWHEEL, HOUSING			
HOUSING ASSY., FLYWHEEL			
5132965		HOUSING, 2,3,4-53 (SAE #3)	1
5145014		PLUG, 3/8"-18 PIPE (12.9550)	1
5146646		PLUG, 1 1/4" PIPE SQ. SOC. (12.9550)	1
9409126		BOLT, 5/16"-18X2 1/2" (12.9001)	2
427588		BOLT, 3/8"-16X2 1/2" (12.9001)	6
5101779		BOLT, 3/8"-16X7/8" (12.9001)	1
9414215		BOLT, 3/8"-16X2 1/2" LOCK (12.9001)	4
103321		LOCKWASHER, 3/8"	AR
5170489		BOLT, 3/8"-24X3 9/16" (12.9001)	3
SHIM, FLYWHEEL HOUSING TO END PLATE			
5123802		SHIM, 2.38" DIA.X.015" THK.	1
GASKET, FLYWHEEL HOUSING			
5121334		GASKET, 3, 4-53	1
COVER, FLYWHEEL HOUSING LARGE HOLE			
5122281		COVER (1.5030)	2
100158		BOLT, 1/2"-13X1"	8
179857		BOLT, 7/16"-14X7/8"	2
103323		LOCKWASHER, 1/2"	8
5150568		WASHER, 7/16" (2.4050)	2
GASKET, FLYWHEEL HOUSING LARGE HOLE COVER			
5104506		GASKET (1.5040)	2
COVER, FLYWHEEL HOUSING SMALL HOLE			
186625		BOLT, 5/16"-18X7/8"	2
5116411		COVER	1
103320		LOCKWASHER, 5/16"	4
GASKET, FLYWHEEL HOUSING SMALL HOLE COVER			
5116391		GASKET, VLV. MTG. (1.5060)	2
GASKET, STARTING MOTOR HOLE COVER			
5130995		GASKET	AR
8927578		BOLT, 3/8"-16X.755" (12.9001)	7
1.6000 - CONNECTING ROD AND PISTON			

PART #		NAME AND DESCRIPTION	QUANTITY
1.6000 - CONNECTING ROD AND PISTON			
CONNECTING ROD ASSY.			
QUANTITIES SHOWN ARE PER CYLINDER. A ROD ASSY. INCLUDES CAP AND ORIFICE WHI CH ARE NOT SOLD SEPARATELY, PLUS ITEMS IN 1.6001, 1.6010 AND 1.6040.VAPOR B LASTED BUSHING (TYPE 58 AND 59) NOT SERVICED SEPARATELY. A CROSSHEAD ROD AS SY. INCLUDES ONLY ITEMS IN 1.6001.			
R5121262		REMANUFACTURED 5121262	AR
5121262		ROD ASSY., 3, 4-53	1
5197852		BOLT, 3/8"-24X2.76"	2
839103		NUT, 3/8"-24	2
NOZZLE, CONNECTING ROD SPRAY			
5150140		NOZZLE	1
ORIFICE, CONNECTING ROD			
5198179		ORIFICE, 5/16" X 7/16"	1
BUSHING, CONNECTING ROD PISTON PIN			
5116181		BUSHING	2
SHELL, CONNECTING ROD BEARING			
A SHELL SET CONSISTS OF ONE UPPER AND ONE LOWER SHELL.			
5149452		SHELL SET (STANDARD 3, 4-53) (TURBO)	AR
5149453		SHELL SET (.002" U.S.)	AR
5149454		SHELL SET (.010" U.S.)	AR
5149455		SHELL SET (.020" U.S.)	AR
5149456		SHELL SET (.030" U.S.)	AR
PISTON KIT			
A PISTON KIT INCLUDES BUSHING IN 1.6145 AND RETAINER IN 1.6150.VAPOR BLASTE D BUSHINGS (TYPE 58, 59) NOT SERVICED SEPARATELY. A CROSSHEAD (CR/HD) PISTO N DOME KIT INCLUDES PISTON CROWN PLUS SEAL RING IN 1.6106, PIN IN 1.6140, B EARING IN 1.6142 AND RETAINERS IN 1.6150.			
5198877		PISTON KIT, 3, 4, 6V53 ("N" ENGINE)	1
RING SET, PISTON			
A PISTON RING SET CONSISTS OF SUFFICIENT RINGS FOR ONE (1) CYLINDER.			
5149942		RING SET	AR
RING, PISTON COMPRESSION			
5116184		RING (CHROMED) (2ND, 3RD & 4TH)	3
8923328		RING (FIRE RING, WITHOUT CHROME)	1
RING, PISTON OIL CONTROL			
AN OIL CONTROL RING SET CONSISTS OF RINGS FOR ONE (1) CYLINDER. AN OIL CONT ROL RING CONSISTS OF TWO (2) SCRAPERS AND ONE (1) EXPANDER.			
5195933		RING SET	2
PIN, PISTON			
5116189		PIN	1
BUSHING, PISTON PIN			
5116181		BUSHING	2
RETAINER, PISTON PIN			
5108131		RETAINER	2
LINER, CYLINDER			
5132803		LINER (STANDARD)	1
5101016		LINER (.010" O.S. O.D.)	AR
5149944	+	LINER (.020" O.S. O.D.)	AR
+ USE WITH 5149945 SEAL.			
CYLINDER KIT			
A TRUNK TYPE CYLINDER KIT INCLUDES PISTON ASSY. IN 1.6110, RINGS IN 1.6115, 1.6120 AND 1.6130, PIN IN 1.6140, BUSHINGS IN 1.6145, RETAINERS IN 1.6150 AND LINER IN 1.6180.A CROSSHEAD (CR/HD) TYPE CYLINDER KIT INCLUDES PISTON C ROWN PLUS SEAL RING IN 1.6106, SKIRT IN 1.6110, RINGS IN 1.6115, 1.6120 AND 1.6130, PIN IN 1.6140, BEARING IN 1.6142, RETAINERS IN 1.6150 AND LINER IN 1.6180.			
5198899		CYLINDER KIT ("N" ENGINES)	AR

PART #		NAME AND DESCRIPTION	QUANTITY
1.6000 - CONNECTING ROD AND PISTON			
SEAL, CYLINDER LINER			
5121256		SEAL	2
5149945		SEAL, .020" O.S. O.D.	2
1.7000 - CAMSHAFT AND GEAR TRAIN			
CAMSHAFT ASSY.			
A CAMSHAFT ASSY. INCLUDES PLUGS IN 1.7001.			
R5149095		REMANUFACTURED 5149095	AR
5149095	*	CAMSHAFT ASSY., 4-53 RA-RB-RC-RD ENG.	1
5151277		PLUG, DRIVE	2
* MUST BE USED WITH 5147424 VALVE SPRING ON 4 VALVE ENGINES AND 5116140 VALVE SPRING ON 2 VALVE ENGINES.			
BEARING, CAMSHAFT END			
A SET INCLUDES ALL END AND INTERMEDIATE BEARINGS WHICH ARE NOT SOLD SEPARATELY.			
5198984		BEARING SET, CAMSHAFT 4-53 (1.7010)	1
5198978		BEARING SET (.010" U.S., I.D. STD. O.D.)	AR
5198979		BEARING SET (STD. I.D., .010" O.S., O.D.)	AR
5198981		BEARING SET (.020" U.S., I.D., STD. O.D.)	AR
WASHER, CAM AND BALANCE SHAFT END BEARING THRUST			
5116198		WASHER	2
9409028		BOLT, 3/8"-16X1" LOCK (12.9001)	4
SEAL, CAMSHAFT OIL			
5106223		SEAL, OIL (FRONT-LEFT BANK)	2
SPACER, CAMSHAFT OIL SEAL			
5106360		SPACER	2
SHAFT, BALANCE			
5121074		SHAFT, 4-53	1
PULLEY, FRONT BALANCE			
8925946		PULLEY, 4-53	2
8926248		KEY, 3/16"X5/8" WOODRUFF (12.9350)	2
5150087		NUT, 1 1/8"-18 (1.7140)	2
WEIGHT, REAR BALANCE			
5119277		WEIGHT (.2391" THICK 2 HOLES)	2
5119278		WEIGHT (INNER) (.2242" THICK, 5 HOLES)	2
9409215		BOLT, 3/8"-16X1.25" LOCK (12.9001)	4
GEAR, CAMSHAFT AND BALANCE SHAFT			
5107072		GEAR (R.H. HELIX) (R. BANK CAMSHAFT R.H. ENG., L. BANK CAMSHAFT L.H. ENG.-111 TEETH)	1
5107073		GEAR (L.H. HELIX) (L. BANK CAMSHAFT R.H. ENG., R. BANK CAMSHAFT L.H. ENG.-111 TEETH)	1
8926248		KEY, 3/16"X5/8" WOODRUFF (12.9350)	2
5150087		NUT, 1 1/8"-18 (1.7140)	2
SPACER, CAMSHAFT AND BALANCE SHAFT GEAR			
5121077		SPACER	1
RETAINER, CAM AND BALANCE SHAFT GEAR NUT			
5172734		RETAINER	2
181361		BOLT, 3/8"-24X7/8"	4
103321		LOCKWASHER, 3/8"	4
GEAR ASSY., IDLER			
A GEAR ASSY. INCLUDES BEARING IN 1.7225.			
5107075		GEAR ASSY. (L.H. HELIX)	1
BEARING, IDLER GEAR			
5196793		BEARING	1
5132504		WASHER	2
HUB, IDLER GEAR			
5124458		HUB	1

PART #	NAME AND DESCRIPTION	QUANTITY
1.7000 - CAMSHAFT AND GEAR TRAIN		
5157244	BOLT, 3/8"-16X1 3/4" (4.4190)	1
1.7000A - BALANCE WEIGHT COVER		
COVER, BALANCE WEIGHT		
A COVER ASSEMBLY INCLUDES DOWEL PINS IN 1.7470.		
5119428	COVER ASSY., 3,4-53	1
5146900	PIN, 3/8"X1 1/8" DOWEL (12.9290)	2
186622	BOLT, 3/8"-16 X 1.25"	9
179844	BOLT, 3/8"-16X1 5/8"	4
103321	LOCKWASHER, 3/8"	13
SEAL, BALANCE WEIGHT COVER OIL		
5106223	SEAL, OIL (FRONT-LEFT BANK)	2
GASKET, BALANCE WEIGHT COVER		
5121082	GASKET (UPPER)	1
1.8000 - VALVE AND INJECTOR OPERATING MECHANISM		
ARM ASSY., EXHAUST VALVE ROCKER		
INCLUDES ITEMS IN 1.8130, 1.8140, 1.8150 AND 1.8343.		
R5135267	REMANUFACTURED 5135267	AR
R5135268	REMANUFACTURED 5135268	AR
5135268	ARM ASSY. (RIGHT) (4 VALVE)	4
5135267	ARM ASSY. (LEFT) (4 VALVE)	4
ARM ASSY., INJECTOR ROCKER		
INCLUDES ITEMS IN 1.8110 THRU 1.8150.		
5179954	ARM ASSY. (8923554)	4
BUSHING INJECTOR ROCKER ARM-LARGE		
5150318	BUSHING	4
8924355	BUSHING, .0015" U.S. I.D.	AR
BUSHING, INJECTOR AND EXHAUST VALVE ROCKER ARM-SMALL		
5150311	BUSHING	4
8924354	BUSHING, .0015" U.S.I.D.	AR
CLEVIS, INJECTOR AND EXHAUST VALVE ROCKER ARM		
5150312	CLEVIS	12
BUSHING, INJECTOR AND EXHAUST VALVE ROCKER ARM CLEVIS		
5123700	BUSHING, .44"I.D.X.56"O.D.	20
PIN, INJECTOR AND EXHAUST VALVE ROCKER ARM CLEVIS		
5150314	PIN (PUSH ROD END)	12
5123711	PIN (BRIDGE END)	8
SHAFT ASSY., ROCKER		
A SHAFT ASSY. INCLUDES PLUG IN 1.8160.		
5116072	SHAFT ASSY.	4
5151272	PLUG, 11/32" SPECIAL (1.8160)	4
BRACKET, ROCKER SHAFT		
5116128	BRACKET	8
5119198	BOLT	8
ROD, PUSH		
5128640	ROD	12
5151601	NUT, 5/16"-24 LOCK	12
SPRING, PUSH ROD		
5108918	SPRING (2.62" FREE LENGTH, .192" WIRE DIA., 10.5 C	12
SEAT, PUSH ROD SPRING-UPPER		
5108919	SEAT	12
SEAT, PUSH ROD SPRING-LOWER		
5123250	SEAT	12
RETAINER, PUSH ROD		

PART #		NAME AND DESCRIPTION	QUANTITY
1.8000 - VALVE AND INJECTOR OPERATING MECHANISM			
5150303		RETAINER (SNAP RING)	12
FOLLOWER ASSY., CAM			
R8924439		REMANUFACTURED 8924439	AR
8924439		FOLLOWER ASSY. (INCLUDES ROLLER SET)	12
ROLLER SET, CAM FOLLOWER			
INCLUDES ROLLER WITH BUSHING AND PIN.			
8923814		ROLLER SET	12
GUIDE, CAM FOLLOWER			
5116125		GUIDE	4
103319		LOCKWASHER, 1/4"	8
443603		BOLT, 1/4"-20X3/4" (12.9001)	8
VALVE, EXHAUST			
5199323		VALVE (INCLUDES LOCKS)	16
GUIDE, EXHAUST VALVE			
A VALVE GUIDE KIT INCLUDES 1-5131961 GUIDE AND 1-8921741 SEAL. INSTALLER (P KG.) CONSISTS OF 100 PIECES.			
5131961		GUIDE, EXHAUST VALVE (1.8320)	16
5198529		KIT, VALVE GUIDE AND SEAL	16
8921741		SEAL	16
5199912		INSTALLER, EXHAUST VALVE SEAL (4 VALVE)	AR
INSERT, EXHAUST VALVE			
8921501		INSERT, EXHAUST VALVE (1.8330)	16
5196752		INSERT (.010" OVERSIZE ON O.D.)	AR
SPRING, EXHAUST VALVE			
5147424		SPRING (BLUE AND WHITE STRIPE)	16
BRIDGE, EXHAUST VALVE			
5135262		BRIDGE	8
CAP, EXHAUST VALVE SPRING			
5123330		CAP	16
SEAT, EXHAUST VALVE SPRING			
5111467		WASHER, SPECIAL (1.8360)	16
LOCK, EXHAUST VALVE SPRING			
5116341		LOCK (HALVES)	32
1.8000A - ROCKER COVER			
COVER ASSY., ROCKER			
5125353		COVER, 4,8V53 (PLAIN)	1
GASKET, ROCKER COVER			
5147506		GASKET, 4,8V53	1
BOLT, ROCKER COVER			
5100104		SCREW ASSY., 5/16"-18X5/8" (WITH PLATE)	6
PLATE, OPTION AND ACCESSORY NAME			
5104203	*	PLATE	AR
* NOT SERVICED BY DDA. FOR REPLACEMENT PLATE CONTACT YOUR LOCAL DISTRIBUTOR AND PROVIDE ENGINE SERIAL NUMBER.			
RETAINER, ROCKER COVER NAME PLATE			
5178347		RETAINER (LONG) (1.8500)	1

PART #		NAME AND DESCRIPTION	QUANTITY
2.1000A - FUEL INJECTOR			
INJECTOR ASSY.			
QUANTITIES SHOWN ARE PER CYLINDER. INCLUDES ITEMS IN 2.1020 THRU 2.1265.			
R5228773		REMANUFACTURED 5228773	AR
5228773	*	INJECTOR ASSY. (N45)	1
* THESE INJECTORS HAVE FILTER ELEMENT AT FUEL INLET SIDE ONLY.			
SERVICE KIT, INJECTOR			
OVERHAUL KIT CONSISTS OF ONE (1) SEAL RING, TWO (2) FILTER CAP GASKETS, TWO (2) FILTER ELEMENTS AND TWO (2) SHIPPING CAPS.			
5229649		SERVICE KIT (WIRE MESH FILTER) (MUI)	AR
CONTAINER, INJECTOR SHIPPING			
5149669		CONTAINER (12.8050)	AR
BODY ASSY., INJECTOR			
A BODY ASSY. INCLUDES DOWEL AND PLUG IN 2.1020.			
5228583		BODY ASSY.	1
5226416		DOWEL	1
5226912		PLUG, BODY	2
5228764		TAG, NUMBER (N45)	1
NUT, INJECTOR VALVE			
5228601		NUT	1
RING, INJECTOR SEAL			
5229167		RING	1
DEFLECTOR, INJECTOR SPILL			
5228109		DEFLECTOR	1
FOLLOWER, INJECTOR			
5228104		FOLLOWER	1
SPRING, INJECTOR PLUNGER			
5228739		SPRING	1
PIN, INJECTOR STOP			
5228608		PIN	1
ELEMENT, INJECTOR FILTER			
5228587		ELEMENT (INLET)	1
CAP, INJECTOR FILTER			
5228588		CAP	2
GASKET, INJECTOR FILTER CAP			
5226186		GASKET	2
CAP, INJECTOR SHIPPING			
5226414		CAP	AR
PLUNGER AND BUSHING ASSY., INJECTOR			
PLUNGERS AND BUSHINGS ARE NOT SOLD SEPARATELY. AN ASSY. INCLUDES PIN IN 2.1165.			
5228684		PLUNGER AND BUSHING ASSY. (N45)	1
PIN, BUSHING GUIDE			
5226393		PIN	1
RACK ASSY., INJECTOR			
5226719		RACK	1
GEAR, INJECTOR			
5226400		GEAR	1
RETAINER, INJECTOR GEAR			
5228586		RETAINER	1
VALVE, INJECTOR CHECK			
5228694		VALVE	1

PART #		NAME AND DESCRIPTION	QUANTITY
2.1000A - FUEL INJECTOR			
CAGE, INJECTOR CHECK VALVE			
5228696		CAGE	1
TIP ASSY., INJECTOR SPRAY			
COMPONENTS OF TIP ASSY. ARE NOT SOLD SEPARATELY.			
5229034		TIP ASSY. (N40, N45, N50, C50)	1
VALVE KIT, INJECTOR			
INCLUDES ITEMS IN 2.1250 AND 2.1255.			
5228769		VALVE KIT	AR
SPRING, INJECTOR VALVE			
5228596		SPRING	1
SEAT, INJECTOR VALVE SPRING			
5228766		SEAT	1
CAGE, INJECTOR VALVE SPRING			
5228594		CAGE	1
CLAMP, INJECTOR			
5121259		CLAMP	1
179847		BOLT, 3/8"-16X1/2"	1
5150250		WASHER, INJECTOR CLAMP	1
2.2000 - FUEL PUMP			
PUMP ASSY., FUEL			
SEE ASSEMBLY BREAKDOWN AS INDICATED BELOW. A FUEL PUMP KIT INCLUDES A 3/8" INLET PUMP, GASKET IN 2.2007 AND REDUCING BUSHING IN 2.2030.			
23515415		PUMP ASM FUEL LH STMP E * 1/4 GEAR	1
5108064	NS #	PUMP ASSY., 3, 4, 6V53 (L.H.) (3/8" INLET)	1
BODY, FUEL PUMP			
141195		PIN, 1/4"X5/8" DOWEL	2
5146337		BODY	1
8924380		PLUG, 1/8"-27 PIPE (12.9550)	1
COVER, FUEL PUMP			
3719219		SCREW AND WASHER ASSY. 1/4"-20 X 3/4"	8
5134560		COVER	1
SEAL, FUEL PUMP OIL			
23512243		SEAL, OIL SGL LIP	2
GEAR, FUEL PUMP DRIVE			
147481		BALL, 1/8" DIA. STEEL	1
5174975		GEAR	1
SHAFT, FUEL PUMP DRIVEN			
A SHAFT ASSY. INCLUDES GEAR WHICH IS NOT SERVICED SEPARATELY.			
5181747		SHAFT ASSY.	1
SHAFT, FUEL PUMP DRIVE			
A SHAFT ASSY. INCLUDES SHAFT IN 2.2093 AND ITEMS IN 2.2087.			
5178700		SHAFT	1
5181746		SHAFT ASSY. (DRIVE)	1
VALVE ASSY., FUEL PUMP			
103709		PIN, .15 X 1" STRAIGHT	1
5174973		VALVE	1
SPRING, FUEL PUMP VALVE RETAINING			
5184530		SPRING	1
PLUG, FUEL PUMP VALVE			
5174971		PLUG	1
GASKET, FUEL PUMP VALVE PLUG			
5161003		GASKET	1
R5199560		REMANUFACTURED 5199560	AR
5199560	NS*	PUMP KIT (L.H.) (3/8" INLET, STD. CAP)	1
GASKET, FUEL PUMP TO ENGINE			
5150193		GASKET (FUEL PUMP TO DRIVE ASSY.) (5.1010)	1
BODY, FUEL PUMP			
141195		PIN, 1/4"X5/8" DOWEL	2
5146337		BODY	1
8924380		PLUG, 1/8"-27 PIPE (12.9550)	2
COVER, FUEL PUMP			
3719219		SCREW AND WASHER ASSY. 1/4"-20 X 3/4"	8
5134560		COVER	1
5198558		BUSHING, 3/8"X1/4" RED. (FACE)	1

PART #		NAME AND DESCRIPTION	QUANTITY
2.2000 - FUEL PUMP			
SEAL, FUEL PUMP OIL			
23512243		SEAL, OIL SGL LIP	2
GEAR, FUEL PUMP DRIVE			
147481		BALL, 1/8" DIA. STEEL	1
5174975		GEAR	1
SHAFT, FUEL PUMP DRIVEN			
A SHAFT ASSY. INCLUDES GEAR WHICH IS NOT SERVICED SEPARATELY.			
5181747		SHAFT ASSY.	1
SHAFT, FUEL PUMP DRIVE			
A SHAFT ASSY. INCLUDES SHAFT IN 2.2093 AND ITEMS IN 2.2087.			
5178700		SHAFT	1
5181746		SHAFT ASSY. (DRIVE)	1
VALVE ASSY., FUEL PUMP			
103709		PIN, .15 X 1" STRAIGHT	1
5174973		VALVE	1
SPRING, FUEL PUMP VALVE RETAINING			
5184530		SPRING	1
PLUG, FUEL PUMP VALVE			
5174971		PLUG	1
GASKET, FUEL PUMP VALVE PLUG			
5161003		GASKET	1
5131685		BOLT, 5/16"-18X3/4" (5.1031)	3
8924380		PLUG, 1/8"-27 PIPE (12.9550)	2
5199560		PUMP KIT (L.H.) (3/8" INLET, STD. CAP)	1
23515415	NS	PUMP ASM FUEL LH STMP E * 1/4 GEAR	1
BODY, FUEL PUMP			
5146337		BODY	1
COVER, FUEL PUMP			
5134560		COVER	1
SHAFT, FUEL PUMP DRIVEN			
A SHAFT ASSY. INCLUDES GEAR WHICH IS NOT SERVICED SEPARATELY.			
5181747		SHAFT ASSY.	1
SHAFT, FUEL PUMP DRIVE			
A SHAFT ASSY. INCLUDES SHAFT IN 2.2093 AND ITEMS IN 2.2087.			
5181746		SHAFT ASSY. (DRIVE)	1
VALVE ASSY., FUEL PUMP			
103709		PIN, .15 X 1" STRAIGHT	1
5174973		VALVE	1
SPRING, FUEL PUMP VALVE RETAINING			
5184530		SPRING	1
PLUG, FUEL PUMP VALVE			
5174971		PLUG	1
PUMP ASSY., FUEL			
23511316		BOLT,1/4"-20 X 3/4"(W/LW)	8
23512243		SEAL, OIL SGL LIP	2
8929819		PIN, 1/4" X 5/8" DOWEL	2
# NOT SERVICED; COMPONENTS ARE AVAILABLE. FOR COMPLETE REPLACEMENT USE PUMP K IT SHOWN IN SAME TYPE.			
OVERHAUL KIT, FUEL PUMP			
5195078		OVERHAUL KIT (STD. CAP.)	AR
GASKET, FUEL PUMP TO ENGINE			
5150193		GASKET (FUEL PUMP TO DRIVE ASSY.) (5.1010)	1
COUPLING, FUEL PUMP DRIVE			
5154216		COUPLING	1
2.3000A - FUEL FILTER AND STRAINER			
STRAINER ASSY., FUEL			
SEE ASSEMBLY BREAKDOWN PAGE AS INDICATED BELOW.			
114674		SCREW, 3/8"-16X1 1/4" (12.9030)	2
25014371		STRAINER CARTRIDGE (T-936)(SPIN-ON)	1
8921410		COVER (SPIN-ON)	1
5121182		PLUG, 1/4" PIPE (2.4015)	3
103321		LOCKWASHER, 3/8"	2
102635		NUT, 3/8"-16	2
BRACKET, FUEL STRAINER MOUNTING			
5138051		BRACKET	1
5145014		PLUG, 3/8"-18 PIPE (12.9550)	1

PART #		NAME AND DESCRIPTION	QUANTITY
2.3000A - FUEL FILTER AND STRAINER			
FILTER ASSY., FUEL			
SEE ASSEMBLY BREAKDOWN PAGE B1.			
23518526		FILTER, FUEL SECONDARY	1
5148171		COVER	1
181377		BOLT, 3/8"-24X1 3/4"	2
186622		BOLT, 3/8"-16 X 1.25"	2
5121182		PLUG, 1/4" PIPE (2.4015)	2
103321		LOCKWASHER, 3/8"	2
2.4000 - FUEL MANIFOLD AND/OR CONNECTIONS			
PIPE, FUEL			
23511852	*	TUBE ASSY.	AR
* QUANTITY IS TWO TIMES CYLINDER COUNT.			
CONNECTOR, FUEL PIPE			
8926992	*	CONNECTOR	AR
* QUANTITY IS TWO TIMES CYLINDER COUNT.			
WASHER, FUEL PIPE CONNECTOR			
8925644	*	WASHER, .39"X.625" SEAL COPPER	AR
* QUANTITY IS TWO TIMES CYLINDER COUNT.			
2.5000A - FUEL LINES AND FUEL COOLER			
VALVE, FUEL SUPPLY CHECK			
5122279		VALVE, 1/4" (SPRING TYPE)	AR
TUBE, STRAINER TO FUEL PUMP			
5121101		TUBE (DEV. L. 14.80")	1
193004		ELBOW, 3/8"-90 DEG. INV. FL. TUBE	2
CLIP, STRAINER TO FUEL PUMP			
5177623		CLIP, 3.8" TUBE, 3/8" BOLT (2.5120)	1
TUBE, FUEL PUMP TO FILTER			
5109486		TUBE ASSY. (DEV. L. 41 5/8")	1
442323		CONNECTOR, 3/8" INV. FL. TUBE (12.9460)	1
193004		ELBOW, 3/8"-90 DEG. INV. FL. TUBE	1
TUBE, FILTER OUTLET			
5129623		TUBE (DEV. L. 12.68")	1
193004		ELBOW, 3/8"-90 DEG. INV. FL. TUBE	1
442323		CONNECTOR, 3/8" INV. FL. TUBE (12.9460)	1
TUBE, FUEL DRAIN			
5116440		ELBOW, 5/16" INV. FL. TUBE .070 RESTRICTED(2.5210)	1
2.7000A - MECHANICAL GOVERNOR			
GOVERNOR ASSY.			
A GOVERNOR ASSY. INCLUDES ITEMS IN 2.7045 THRU 2.7810 EXCEPT 2.7520, 2.7530 AND 2.7740. CLOSED LINKAGE GOVERNORS DO NOT INCLUDE ITEMS IN 2.7170.			
R5107132		REMANUFACTURED 5107132	AR
5107132		GOVERNOR ASSY., 3, 4-53 LIM. VAR. HIGH SPD.	1
NAME PLATE, GOVERNOR			
145369		SCREW, #4X3/16" RD. HD. DRIVE	2
5122166		PLATE	1
COVER ASSY., GOVERNOR-COMPLETE			
A COVER ASSY. INCLUDES ITEMS IN 2.7050, 2.7095, 2.7100, 2.7115, 2.7140, 2.7150 AND 2.7155.			
5107124		COVER ASSY., 3, 4-53	1
5144196		WASHER, SEAL RING BACK-UP (2.7045)	1
9417926		BOLT ASSY., 1/4"-20X3/4" (W/LW) (12.9001)	4
COVER ASSY., GOVERNOR-LESS SHAFT AND LEVERS			
INCLUDES ITEMS IN 2.7050 AND 2.7100.			
INCLUDES ITEMS IN 2.7050, 2.7093 AND 2.7100.			
5126397		COVER ASSY., 2,3,4-53 (C AND D ENGINE, LIMITING SP	1
GASKET, GOVERNOR COVER			
456540		PIN, 3/16"X5/8" SPRING (12.9275)	2
5122742		GASKET	1

PART #	NAME AND DESCRIPTION	QUANTITY
2.7000A - MECHANICAL GOVERNOR		
SHAFT ASSY., GOVERNOR THROTTLE		
A SHAFT ASSY. INCLUDES ITEMS IN 2.7095 AND 2.7130.		
A SHAFT ASSY. INCLUDES ITEMS IN 2.7095.		
271287	FITTING, 1/4" LUBE (12.9540)	1
455734	PIN, SPRING 1/8" X 3/4" (12.9300)	1
5107122	SHAFT ASSY., 4-53	1
SHAFT ASSY., GOVERNOR SHUTDOWN		
453676	PIN, 1/8"X1" ROLL (12.9275)	1
5107123	SHAFT ASSY., 4-53	1
WASHER, GOVERNOR THROTTLE SHAFT		
5101691	SEAL RING, .362" I.D.X.113" THK. (GREEN PAINT)	1
5179232	RING, SEAL (2.4225)	1
RETAINER, GOVERNOR PACKING THROTTLE SHAFT		
5122732	RING, SNAP	1
5150238	WASHER, 7/16" (3.4001)	1
RETAINER, GOVERNOR PACKING SHUTDOWN SHAFT		
5144178	RETAINER, .389"I.D.X.68"O.D.X.033"THK. (2.7155)	1
5151487	WASHER, .384"I.D.X11/16"O.D.X.033" THK. (2.7430)	1
5178581	RING, RETAINER .347"I.D.X.048"X.048" THK. (2.7430)	1
HOUSING ASSY., GOVERNOR CONTROL		
5116262	ADAPTOR, CYLINDER HEAD GOVERNOR CONTROL LINK	1
5144090	HOUSING (LH) 4-53	1
8924749	PLUG, 1/8"-27 PIPE SQ. SOC. (12.9550)	1
SHAFT ASSY., GOVERNOR OPERATING		
INCLUDES ITEMS IN 2.7255, 2.7260, 2.7280 AND 2.7300.		
5122752	SHAFT ASSY.	1
SHAFT, GOVERNOR OPERATING		
5122751	SHAFT	1
TUBE, GOVERNOR OPERATING SHAFT		
5122754	TUBE	1
BEARING, GOVERNOR OPERATING SHAFT-UPPER		
120391	WASHER, #10	1
9421917	SCREW ASSY., #10-24X7/16" (W/LW) (12.9025)	1
9431894	BEARING	1
BEARING, GOVERNOR OPERATING SHAFT-LOWER		
9413284	RING, SNAP (BEARING TO HOUSING)	1
9428477	PLUG, 15/16" CUP (2.7340)	1
9431887	BEARING (2.7270)	1
LEVER, GOVERNOR OPERATING SHAFT-UPPER		
A LEVER ASSY. INCLUDES PIN IN 2.7300.		
114492	NUT, 1/4-28"	1
5122749	LEVER ASSY.	1
5150898	SCREW (GAP ADJUSTING)	1
FORK, GOVERNOR OPERATING SHAFT-LOWER		
5122741	FORK, 3, 4-53	1
9425382	SCREW, #10-32X5/8" (12.9001)	2
PIN, GOVERNOR OPERATING SHAFT LEVER		
5122746	PIN	1
LEVER AND PIN ASSY., GOVERNOR DIFFERENTIAL		
A LEVER ASSY. INCLUDES PIN IN 2.7315.		
142583	RETAINER, 13/64" SPRING (12.9460)	1
5126311	LEVER ASSY. (LIMITING SPEED)	1
5150941	WASHER, 21/64" (2.7310)	1
PIN, GOVERNOR DIFFERENTIAL LEVER		
5126310	PIN (LIMITING SPEED)	1
HOUSING, GOVERNOR WEIGHT		
5119127	BEARING	1
5129730	HOUSING (C & D ENG.)	1
SHAFT AND CARRIER ASSY., GOVERNOR WEIGHT		
A SHAFT AND CARRIER ASSY. INCLUDES ITEMS IN 2.7360, 2.7370, 2.7380, 2.7390, 2.7430 AND 2.7460.		
110529	SCREW, #10-24 X 1/4" (12.9030)	1
5100061	SHAFT AND CARRIER ASSY.	1
BEARING, GOVERNOR WEIGHT RISER THRUST		
9437108	BEARING, .352"-.356" W.	1
SPACER, GOVERNOR WEIGHT SHAFT		
5122738	SPACER (BETWEEN GEAR AND BEARING)	1
SPRING, GOVERNOR LOW SPEED		
5122165	SPRING (ONE BLUE STRIPE)	1
SPRING, GOVERNOR HIGH SPEED		
5182560	SPRING (ONE RED STRIPE)	1
PLUNGER, GOVERNOR LOW SPEED SPRING		
5182555	PLUNGER, 5.32" L.	1

PART #		NAME AND DESCRIPTION	QUANTITY
2.7000A - MECHANICAL GOVERNOR			
SEAT, GOVERNOR LOW SPEED SPRING			
5150892		SEAT	1
CAP, GOVERNOR LOW SPEED SPRING			
5103975		CAP	1
SCREW, GOVERNOR LOW SPEED SPRING ADJUSTING			
114492		NUT, 1/4-28"	1
5101432		PIN, ADJUSTING (3.98"L.)	1
5102270		SCREW, 1/4"-28X1"	1
RETAINER, GOVERNOR HIGH SPEED SPRING			
5182557		RETAINER, 2 3/4" L.	1
LOCKNUT, GOVERNOR HIGH SPEED SPRING RETAINER			
5186115		LOCKNUT	1
HOUSING, GOVERNOR HIGH SPEED SPRING ADJUSTING SCREW			
186270		BOLT, 5/16"-18X3 1/2"	2
5155596		WASHER, 21/64" SPECIAL COPPER (4.7120)	2
5182559		HOUSING, 3.16" L.	1
GASKET, GOVERNOR HIGH SPEED SPRING COVER			
8922593		GASKET	1
SCREW ASSY., GOVERNOR BUFFER			
5174286		NUT, 3/8"-24 LOCK (12.9140)	1
5177083		SCREW ASSY. (INCLUDES SPRING)	1
179822		BOLT, 5/16"-18X1 1/2"	2
9426895		BOLT, 3/8"-16X1 1/4" (12.9005)	2
103320		LOCKWASHER, 5/16"	2
9414285		BOLT, 3/8"-24X7/8" (12 PT. HD.) (12.9001)	3
5145225		WASHER, .39"X.75"X.08" (2.7001)	3
9414322		WASHER, 3/8"X.738"X.63 (12.9190)	2
GASKET, GOVERNOR TO BLOWER-GOVERNOR DRIVE			
5116336		GASKET	1
LEVER, GOVERNOR COVER SHUTDOWN SHAFT			
103319		LOCKWASHER, 1/4"	1
443603		BOLT, 1/4"-20X3/4" (12.9001)	1
5102708		LEVER	1
LEVER, GOVERNOR COVER THROTTLE SHAFT			
5120069		LEVER	1
186647		BOLT, 1/4"-20X1"	1
103319		LOCKWASHER, 1/4"	1
ROD ASSY., GOVERNOR TO INJECTOR LINK			
5122797		LINK	1
5147345		PIN, 1/4"X49/64" CLEVIS (2.9022)	1
103361		PIN, 1/16"X1/2" COTTER	1
142583		RETAINER, 13/64" SPRING (12.9460)	1
5150941		WASHER, 21/64" (2.7310)	1
ADAPTOR, CYLINDER HEAD GOVERNOR CONTROL LINK			
5116262		ADAPTOR, CYLINDER HEAD GOVERNOR CONTROL LINK	1
BOOT, GOVERNOR TO INJECTOR LINK			
5129707		HOSE, 13/16" I.D. X 1.12" L.	1
272855		CLAMP, HOSE (SPRING, 1 1/4") (12.9660)	2
TUBE ASSY., GOVERNOR BEARING LUBRICATION			
5129726		TUBE ASSY. (DEV. L. 11.36")	1
23506774		ELBOW, 1/4"-90 DEG.	1
8924170		CONNECTOR, 1/4" INV. FL. TUBE; 1/8" PIPE (12.9460)	1
GEAR, GOVERNOR DRIVE			
5116025	*	GEAR, 3,4-53 RA,RB,LC,LD (RH HELIX; 49 TEETH)	1
5107076	+	GEAR, 3,4-53 RA,RB,LC,LD (RH HELIX; 56 TEETH)	1
5116026	*	GEAR, 3,4-53 LA,LB,RC,RD (LH HELIX; 49 TEETH)	1
8927961	@	GEAR, 3-53 (R.H. HELIX-56 TEETH; STAMPED 8927961)	1
5107077	+	GEAR, 3,4-53 RC,RD,LA,LB (LH HELIX; 56 TEETH)	1
8924991	@	GEAR, 3-53 (L.H. HELIX-56 TEETH; STAMPED 8924991)	1
9434177		NUT, 5/8"-18 (ITEM 2) (12.9140)	1
8928539		KEY, 5/32"X5/8" WOODRUFF (12.9350)	1

* THRU 3D-170682 AND 4D-180938.
+ EFF. WITH 3D-170683 AND 4D-180939.
@ EFF. WITH 3D-193526 FOR TURBO APPLICATIONS ONLY.

PART #	NAME AND DESCRIPTION	QUANTITY
2.9000	- INJECTOR CONTROLS	
	TUBE ASSY., INJECTOR CONTROL	
	A TUBE ASSY. INCLUDES ONE (1) BRACKET IN 2.9003 AND ITEMS IN 2.9007 THRU 2.9010.	
5149973	TUBE AND LEVER ASSY., 4-53	1
	BRACKET, INJECTOR CONTROL TUBE	
5116264	BRACKET	1
9422203	BOLT, 1/4"-20X5/8" (12.9001)	4
	SHAFT, INJECTOR CONTROL TUBE END	
5150259	SHAFT (1.06" L.)	1
	LEVER, INJECTOR CONTROL TUBE	
5116267	LEVER	1
142486	PIN, 1/8"X3/4" GROOVE (12.9270)	1
142487	PIN, 1/8"X7/8" GROOVE (12.9270)	1
	SPACER, INJECTOR CONTROL TUBE LEVER	
5116266	SPACER	1
	SPRING, INJECTOR CONTROL TUBE	
5116265	SPRING (L.H. HELIX)	1
5101258	SPRING (L.H. HELIX) (GREEN)	1
5101295	SPRING (R.H. HELIX) (ORANGE)	3
	LEVER, INJECTOR CONTROL TUBE RACK	
5101397	LEVER	4
120613	NUT, 1/4"-28 JAM	4
5101392	SCREW, 1/4"-28X.90"	4

PART #		NAME AND DESCRIPTION	QUANTITY
3.3000A - AIR INLET HOUSING			
HOUSING ASSY., AIR INLET			
A HOUSING ASSY. INCLUDES ITEMS IN 3.3003 AND 3.3040 THRU 3.3110.			
5121182		PLUG, 1/4" PIPE (2.4015)	1
5157244		BOLT, 3/8"-16X1 3/4" (4.4190)	4
179846		BOLT, 3/8"-16X1 7/8"	1
179851		BOLT, 3/8"-16X3"	1
103321		LOCKWASHER, 3/8"	6
103341		WASHER, 3/8"	6
HOUSING, AIR INLET			
5130978		HOUSING, 4-53	1
GASKET, AIR INLET HOUSING FLANGE			
5124405		GASKET (3.3007) 3,4-53	1
5196054		GASKET (3.4025)	1
CLIP, SHUTDOWN RESET LEVER ROD			
3290569		CLIP, 3/16" TUBE (7.8320)	1
103319		LOCKWASHER, 1/4"	1
123298		BOLT, 1/4"-28X3/8"	1
121902		NUT, 1/4"-28	1
WIRE, AIR INLET HOUSING SHUTDOWN CONTROL			
5146241		WIRE ASSY. (90" L., COATED)	1
140855		SCREW, #8-32X5/16" SET	1
3796374		STOP (2.9426)	1
110730		LOCKWASHER, 3/8" (12.9200)	1
120392		WASHER, 1/4"	1
132105		SCREW, #10-32X3/8" FIL. HD.	1
120393		WASHER, 5/16"	1
124925		NUT, 3/8"-24 JAM	1
103361		PIN, 1/16"X1/2" COTTER	1
5168374		PIN (SWIVEL) (3.3090)	1
PLATE, AIR INLET HOUSING SHUTDOWN CONTROL			
5186687		PLATE, NAME (STOP)	1
3.4000 - BLOWER AND DRIVE			
BLOWER ASSY.			
NOTE: SEE ASSEMBLY BREAKDOWN FOR COMPONENTS OF SERVICED BLOWER ASSYS. AS IN DICATED.A 2 CYLINDER BASIC BLOWER ASSY. INCLUDES ITEMS IN 3.4020 AND 3.4030 THRU 3.4420 EXCEPT 3.4180 AND 3.4190.A 3 CYLINDER BLOWER ASSY. INCLUDES IT EMS IN 3.4020 AND 3.4030 THRU 3.4140.A 4 CYLINDER BLOWER ASSY. INCLUDES ITE MS IN 3.4020 AND 3.4030 THRU 3.4160 AND 3.4370 THRU 3.4420.A 6 CYLINDER BLO WER ASSY. INCLUDES ITEMS IN 3.4020 AND 3.4030 THRU 3.4190 THRU 3.4370 THRU			
R5107532		REMANUFACTURED 5107532	AR
23516563		BLOWER ASM BASIC LIP OIL SEAL 4-53C&D	1
5107532	NS	BLOWER ASSY., 4-53	1
HOUSING, BLOWER			
A HOUSING ASSY. INCLUDES PINS.			
141242		PIN, DOWEL 3/8"X7/8" (TO BLOWER) (12.9290)	4
5119392		HOUSING ASSY., 4-53 (INCLUDES PINS)	1
ROTOR, BLOWER IMPELLER			
ROTOR ASSY. INCLUDES SHAFT AND PIN WHICH ARE NOT SOLD SEPARATELY.			
5139298		ROTOR ASSY., 4-53	2
PLATE, BLOWER ROTOR THRUST			
5116170		SPACER	3
5134179		PLATE, 3, 4-53	1
9409062		BOLT, 1/4"-20X1" (12.9001)	3
WASHER, BLOWER ROTOR SHAFT THRUST			
5127077		WASHER, 25/64" I.D.	2
9409034		BOLT, 3/8"-24X7/8" LOCK (12.9001)	2
GEAR SET, BLOWER ROTOR			
5107081		GEAR, 3, 4-53 (R.H. HELIX)	1
5107084		GEAR, 4-53 (L.H. HELIX) (HARDENED)	1
5116316		WASHER, 1.24" DIA.	1
9409018		BOLT, 5/16"-24X7/8" (12.9001)	2
PILOT, BLOWER DRIVE CAM			
5126236		PILOT, 4, 6V-53	1
SHIM, BLOWER ROTOR GEAR			
5116164		SHIM, .002"	AR

PART #	NAME AND DESCRIPTION	QUANTITY
3.4000 - BLOWER AND DRIVE		
5116165	SHIM, .003"	AR
5116166	SHIM, .004"	AR
5116167	SHIM, .005"	AR
SPACER, BLWER ROTOR GEAR		
5116168	SPACER	2
PLATE, BLOWER HOUSING END		
5134914	PLATE, 3,4-53 COUNTERBORED	2
8924380	PLUG, 1/8"-27 PIPE (12.9550)	2
SEAL, BLOWER HOUSING END PLATE		
5142266	SEAL	4
5131913	WASHER, 13/16"X29/64"X5/32" (3.4001)	4
9433110	BOLT, 7/16"-14X6 11/16"	4
BLOWER KIT, INSTALLATION		
A KIT INCLUDES ITEMS IN 3.4010, 3.4025, 3.4190, 3.4220, 3.4227 AND COPPER W ASHER, IN 3.4350.A 6 CYLINDER KIT ALSO INCLUDES ITEMS IN 2.7010, 2.7051, 2. 7650, 2.7700 AND HOSES AND CLAMPS IN 2.7834 AND GASKET IN 3.4190.		
5198042	BLOWER INSTALLATION KIT, 4-53	AR
BLOWER KIT, REPAIR		
TURBO AND NON-TURBO KITS CONSIST OF WASHER IN 3.4080, PILOT IN 3.4082, PLUS ITEMS IN 3.4090, 3.4100, 3.4160, 3.4320, AND SPACER IN 3.4370.AN 8V53 KIT CONSISTS OF BEARINGS IN 3.4040 AND 3.4060, PILOT IN 3.4082, PLUS ITEMS IN 3 .4090, (4) 5134351 SEALS IN 3.4160, 3.4320, 3.4360, SEAL IN 3.4130, (4) SLE EVES IN 3.4163 AND GASKET IN 4.8070.		
5198683	BLOWER REPAIR KIT, 3,4,6V53 (NON- TURBO)	AR
GASKET, BLOWER		
5116296	GASKET, 4-53 (TO BLOCK)	1
HOUSING, BLOWER		
5119392	HOUSING ASSY., 4-53 (INCLUDES PINS)	1
141242	PIN, DOWEL 3/8"X7/8" (TO BLOWER) (12.9290)	4
ROTOR, BLOWER IMPELLER		
A 6V-53 ROTOR KIT INCLUDES (2) ROTORS IN 3.4030, (2) SPACERS IN 3.4100 AND (2) PILOTS, BOLTS IN 3.4082 AND(4) SEALS IN 3.4160.		
5139298	ROTOR ASSY., 4-53	2
PLATE, BLOWER ROTOR THRUST		
5134179	PLATE, 3, 4-53	1
5116170	SPACER	3
9409062	BOLT, 1/4"-20X1" (12.9001)	3
WASHER, BLOWER ROTOR SHAFT THRUST		
5127077	WASHER, 25/64" I.D.	2
9409034	BOLT, 3/8"-24X7/8" LOCK (12.9001)	2
GEAR SET, BLOWER ROTOR		
5107081	GEAR, 3, 4-53 (R.H. HELIX)	1
5107084	GEAR, 4-53 (L.H. HELIX) (HARDENED)	1
9409018	BOLT, 5/16"-24X7/8" (12.9001)	1
5116316	WASHER, 1.24" DIA.	1
PILOT, BLOWER DRIVE CAM		
5126236	PILOT, 4, 6V-53	1
9409018	BOLT, 5/16"-24X7/8" (12.9001)	1
SHIM, BLOWER ROTOR GEAR		
5116164	SHIM, .002"	AR
5116165	SHIM, .003"	AR
5116166	SHIM, .004"	AR
5116167	SHIM, .005"	AR
SPACER, BLOWER ROTOR GEAR		
5116168	SPACER	2
PLATE, BLOWER HOUSING END		
5134914	PLATE, 3,4-53 COUNTERBORED	2
8924380	PLUG, 1/8"-27 PIPE (12.9550)	2
SEAL, BLOWER HOUSING END PLATE		

PART #		NAME AND DESCRIPTION	QUANTITY
3.4000 - BLOWER AND DRIVE			
5142266		SEAL	4
COVER, BLOWER HOUSING END PLATE			
5119429		COVER, 3, 4-53 (FRONT)	1
5119154		COVER, 4-53 (REAR)	1
5119394		PLATE, REINFORCEMENT (LARGE)(3.4180)	4
5119395		PLATE, REINFORCEMENT (SMALL)(3.4180)	4
427588		BOLT, 3/8"-16X2 1/2" (12.9001)	12
GASKET, BLOWER HOUSING END PLATE COVER			
5119433		GASKET, 3-53 (END PLATE TO FLYWHEEL HOUSING)	2
SEAL, BLOWER DRIVE COVER			
5180445		SEAL	1
CLAMP, BLOWER DRIVE COVER PACKING			
451220		CLAMP, 2 1/2" HOSE (12.9660)	1
GEAR, BLOWER DRIVE			
5107079		GEAR, 4-53 (R.H. HELIX) (C & D ENG.)	1
124546		KEY, 5/32"X5/8" WOODRUFF	1
HUB, BLOWER DRIVE GEAR			
5119284		HUB (SHAFT) 4-53	1
WASHER, BLOWER DRIVE GEAR HUB THRUST			
5119285		WASHER	1
9411765		RING (RETAINER)	1
SUPPORT, BLOWER DRIVE GEAR HUB			
5119175		SUPPORT, 4-53	1
5152148		WASHER, 3/8"X9/16" (COPPER) (2.4050)	3
186622		BOLT, 3/8"-16 X 1.25"	2
103321		LOCKWASHER, 3/8"	2
181360		BOLT, 3/8"-24X3/4"	3
103341		WASHER, 3/8"	2
GASKET, BLOWER DRIVE GEAR HUB SUPPORT			
5116336		GASKET	1
COUPLING, BLOWER DRIVE			
A COUPLING ASSY. INCLUDES ITEMS IN 3.4380 THRU 3.4400.			
8922969		COUPLING ASSY., 4-53	1
5126237		SPACER	1
9409221		BOLT, 1/4"-28X1 5/8" (12.9001)	4
SUPPORT, BLOWER DRIVE COUPLING			
5119412		SUPPORT	1
CAM, BLOWER DRIVE COUPLING			
5180323	+	CAM	1
+ NOT SERVICED, USE 8922970 AND 8922967.			
SPRING, BLOWER DRIVE COUPLING			
5180322		SPRING	30
SEAT, BLOWER DRIVE COUPLING SPRING			
5180321		SEAT	2
RETAINER, BLOWER DRIVE COUPLING			
5119466		RETAINER	1
3.4000A - BLOWER DRIVE SHAFT			
SHAFT, BLOWER DRIVE			
FOR TYPE 42 USE TYPE 35.			
5146721	+	SHAFT 6.43"L. 4,6V53	1
+ NOT SERVICED. USE 8922967 SHAFT AND 8922970 CAM.			
RING, BLOWER DRIVE SHAFT			
9414044		RING, 4,6V53	1

PART #		NAME AND DESCRIPTION	QUANTITY
4.1000A - OIL PUMP			
PUMP ASSY., OIL			
INCLUDES ITEMS IN 4.1085 THRU 4.1220 AND 4.1310.			
R5121042		REMANUFACTURED 5121042	AR
193942		BOLT, 5/16"-18X1 5/8" (12.9001)	6
5121042		PUMP ASSY., 4-53	1
ROTOR ASSY., OIL PUMP			
A ROTOR SET INCLUDES INNER AND OUTER ROTORS WHICH ARE NOT SOLD SEPARATELY.			
5195957		ROTOR ASSY., 4-53	1
COVER, ENGINE FRONT - LOWER			
A LOWER COVER ASSY. INCLUDES ITEMS IN 4.1690 THRU 4.1720.			
5197415		COVER ASSY., 3,4-53	1
8924380		PLUG, 1/8"-27 PIPE (12.9550)	1
5145014		PLUG, 3/8"-18 PIPE (12.9550)	1
8923916		PLUG, 1/2" PIPE (12.9550)	7
186282		BOLT, 3/8"-16X3 1/4"	11
103321		LOCKWASHER, 3/8"	11
COVER, OIL PUMP			
145067		SCREW, #6X3/8" RD. HD. DRIVE	2
5195685		COVER, 6V-53	1
GASKET, CRANKSHAFT FRONT COVER			
5116386		GASKET (LOWER)	1
GEAR, OIL PUMP DRIVE-ON CRANKSHAFT			
8921172		GEAR, 6V-53	1
4.1000B - OIL DISTRIBUTION SYSTEM			
PIPE, OIL PUMP INLET			
5109092		PIPE,4-53 (A-6.24",B-11.34")	1
5119425		FLANGE (.90" I.D.)	1
5127175		SEAL RING, .797" I.D.X.163" THK. (WHITE STRIPE)	1
120393		WASHER, 5/16"	4
179816		BOLT, 5/16"-18 X .75"	4
103320		LOCKWASHER, 5/16"	AR
GASKET, OIL PUMP INLET PIPE			
5175568		GASKET (4.1672)	1
SCREEN, OIL PUMP INLET			
5126456		SCREEN ASSY., 3, 4-53 (INCL COVER)	1
214279		NUT, 5/16"-24 LOCK	2
PIPE, BLOWER DRIVE BEARING OIL			
5119476		TUBE ASSY., DEV. L. 7 1/8"	1
8924170		CONNECTOR, 1/4" INV. FL. TUBE; 1/8" PIPE (12.9460)	1
8925032		ELBOW, 1/4"-90 DEG. INV. FL. TUBE; 1/8" PIPE	2
4.1000C - OIL, PRESSURE REGULATOR			
SPRING, OIL PRESSURE REGULATOR			
5126436	@	SPRING (WITH 3D-4295, 4D-6027, 6D-3858) (4.1260)	4
@ EFFECTIVE WITH 2D-13569, 3D-4295, 3D-6027, 6D-3858 FOR TYPE 12.			
VALVE, OIL PRESSURE REGULATOR			
5177777	+	VALVE	4
+ THRU 6D-3857.			
PLUG, OIL PRESSURE REGULATOR			
5113657	+	PLUG (THRU 6D-3857)	4
+ THRU 6D-3857 FOR TYPE 12.			
GASKET, OIL PRESSURE REGULATOR PLUG			
5177773		GASKET	4
4.2000A - OIL FILTER			
FILTER ASSY., OIL			
SEE ASSEMBLY BREAKDOWN PAGE AS INDICATED BELOW.			

PART #		NAME AND DESCRIPTION	QUANTITY
4.2000A - OIL FILTER			
5103762	$	ADAPTOR AND INSERT ASSY.	1
5104419		ADAPTOR ASSY. (SPIN-ON) (4.2240)	1
179846		BOLT, 3/8"-16X1 7/8"	4
103341		WASHER, 3/8"	4
103321		LOCKWASHER, 3/8"	4
$ NOT SERVICED, USE 5104419 ADAPTOR.			
ELEMENT, OIL FILTER			
23518671		FILTER, LUBE OIL	1
GASKET, OIL FILTER ADAPTOR			
8921708		GASKET	1
VALVE, OIL FILTER BYPASS			
A VALVE KIT INCLUDES ITEMS IN 4.2485, 4.2486 AND 4.2488.			
5133431		VALVE (DISC)	1
SPRING, OIL FILTER BYPASS VALVE			
5134477		SPRING	1
PLUG, OIL FILTER BYPASS VALVE			
5134456		RETAINER, SPRING	1
160221		SCREW, #12-24X1/2" CROSS RECESSED	1
5121182		PLUG, 1/4" PIPE (2.4015)	2
4.4000A - OIL COOLER AND MARINE GEAR LINES			
CORE, OIL COOLER-ENGINE			
8539953		CORE ASSY., 4-53 (8 PLATE)	2
GASKET, OIL COOLER CORE-INNER			
5150155		GASKET	2
GASKET, OIL COOLER CORE-OUTER			
5102506		GASKET	2
HOUSING, OIL COOLER-ENGINE			
5116492		HOUSING, 3-53	1
103647		DRAINCOCK, 1/4"	1
COVER, OIL COOLER HOUSING			
5107975		COVER (4 PORT)	1
103320		LOCKWASHER, 5/16"	8
120393		WASHER, 5/16"	8
446597		BOLT, 5/16"-18X6 1/2" (12.9001)	7
9437758		BOLT, 5/16"-18X7.25" (12.9001)	1
23511573		PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP	2
ADAPTOR, OIL COOLER			
186622		BOLT, 3/8"-16 X 1.25"	4
5123413	%	ADAPTOR, 3,4,6V53	1
179847		BOLT, 3/8"-16X1/2"	2
103321		LOCKWASHER, 3/8"	6
% NOT SERVICED, FOR SERVICE USE 5103907 AND 1-5103906 GASKET.			
GASKET, OIL COOLER ADAPTOR TO BLOCK			
8923738		GASKET	3
5103906		GASKET	1
4.5000A - OIL, FILLER			
TUBE, OIL FILLER			
5121051		TUBE (2.26"L.)	1
CAP, OIL FILLER			
5120098		CAP ASSY. (EXPANSION, 1.75" DIA.)	1
STRAINER, OIL FILLER TUBE			
5121058		STRAINER	1
CHAIN, OIL FILLER CAP			
5113825		CHAIN, 20" L.	1

PART #		NAME AND DESCRIPTION	QUANTITY
4.5000A - OIL, FILLER			
5146248		HOOK, OIL FILLER CAP	2
4.6000A - DIPSTICK			
DIPSTICK			
5109253		DIPSTICK (X-12", Y-.94", Z-10.54")(5146680)	1
GASKET, DIPSTICK			
5106906		SEAL	1
GUIDE, DIPSTICK			
5121062	*	GUIDE (1 1/8" L.- YELLOW)	1
* THRU 4D-9756			
ADAPTOR, DIPSTICK			
5128376		ADAPTOR ASSY. (7.35" DEV. L.) (5109621)	1
137401		NUT, 1/2" INV. TUBE	1
4.7000A - OIL PAN			
PAN, OIL			
5143995	E	PAN, 4-53 STAMPED (5144593)	1
5148437		BOLT, 5/16"-18X1" (W/LW) (12.9001)	24
E NOT SERVICED. USE 5144593 OIL PAN AND INCLUDE (2) 5145012 PLUGS AND (2) 514 2549 PLUGS.			
GASKET, OIL PAN TO BLOCK			
5116257		GASKET, 4-53	1
PLUG, OIL PAN DRAIN			
PLUGS ARE OPTIONAL WHEN MULTIPLE QUANTITIES ARE SHOWN IN SAME TYPE.			
5115214		PLUG, 1/2"-14 PIPE (12.9550)	2
5178994		PLUG, 3/4"-14 NPTF PIPE (4.7080)	1
23511573		PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP	2
23511572		PLUG, 1/2" NPTF SQ. SOC. (12.9550)	2
4.8000A - VENTILATING SYSTEM			
PIPE ASSY., BREATHER			
A PIPE ASSY. (PLAIN) INCLUDES PLUG IN 4.8001 AND FILTER IN 4.8060. A PIPE A SSY. (WITH OIL FILLER) INCLUDESFILLER CAP CHAIN IN 4.5030.			
179828		BOLT, 5/16"-18X.2 1/2"	2
5121057		PIPE ASSY., 3,4-53	1
5150829		PLUG, 7/8" CUP (4.8001)	1
FILTER UNIT, BREATHER			
5104007		ELEMENT	1
23502458		CAP, OIL FILLER T HANDLE 1.66" DIA.	1

PART #	NAME AND DESCRIPTION	QUANTITY
5.1000 - FRESH WATER PUMP		
PUMP ASSY., FRESH WATER		
SEE ASSEMBLY BREAKDOWN AS INDICATED BELOW.		
R23506003	REMANUFACTURED 23506003	AR
186625	BOLT, 5/16"-18X7/8"	5
103320	LOCKWASHER, 5/16"	AR
23506003	PUMP ASSY.,6V-53 (L.H.ROTATION)	1
BODY, FRESH WATER PUMP		
5144688	BODY, 4,6,8V53	1
8924380	PLUG, 1/8"-27 PIPE (12.9550)	1
COVER, FRESH WATER PUMP BODY		
5104293	BOLT ASSY., 5/16"-18X3/4" (12.9001)	7
5119283	COVER	1
GASKET, FRESH WATER PUMP BODY COVER		
5119282	GASKET	1
SHAFT ASSY., FRESH WATER PUMP		
904827	SHAFT ASSY. (INCLUDES BEARING)	1
IMPELLER, FRESH WATER PUMP		
23505993	IMPELLER (L.H.ROTATION)	1
SEAL, FRESH WATER PUMP		
23506248	SEAL, UNITIZED	1
PULLEY, FRESH WATER PUMP		
5144503	PULLEY (3.72" DIA., 2 GROOVES)	1
RECONDITIONING KIT, FRESH WATER PUMP		
INCLUDES ITEMS IN 5.1010, 5.1032, 5.1050, 5.1110 AND 5.1130.		
23506869	RECONDITIONING KIT, 4,6,8V53 (LH ROTATION PUMP)	1
GASKET, FRESH WATER PUMP		
5133107	GASKET	1
REPLACEMENT KIT, FRESH WATER PUMP SEAL SEAT		
A REPLACEMENT KIT INCLUDES CERAMIC INSERT AND ADHESIVE.		
5197279	REPLACEMENT KIT, IMPELLER INSERT	AR
5.2000A - WATER OUTLET MANIFOLD AND/OR ELBOW		
ELBOW, WATER OUTLET MANIFOLD		
5116409	ELBOW, 6V53 (2 1/2"L.) (L. BANK)	1
186619	BOLT, 3/8"-16X1 1/8"	2
103321	LOCKWASHER, 3/8"	2
GASKET, WATER OUTLET MANIFOLD ELBOW		
5116092	GASKET, 3,4,6,8V53	1
5.2000B - THERMOSTAT		
THERMOSTAT ASSY.		
8927465	THERMOSTAT ASSY.(77C-170F)VENT FULBLK	1
HOUSING, THERMOSTAT		
5108088	HOUSING ASSY., 3,4,6V53 (WITH VENT) (INCLUDES PLUGS IN 5.2090)	1
5145014	PLUG, 3/8"-18 PIPE (12.9550)	2
5115214	PLUG, 1/2"-14 PIPE (12.9550)	2
108608	BOLT, 3/8"-16X2 1/8"	2
GASKET, THERMOSTAT HOUSING		
5116242	GASKET	1
COVER, THERMOSTAT HOUSING		
5119426	COVER,3,4,6V53 (PLAIN)	1
186618	BOLT, 5/16"-18X5/8"	2
103320	LOCKWASHER, 5/16"	AR
GASKET, THERMOSTAT HOUSING COVER		
5128139	GASKET, 2,3,4,6V53	1
5.2000C - WATER BYPASS TUBE		
TUBE, WATER BYPASS		
5108944	TUBE,3,4-53 (15.12" DEV. L.) (TO PUMP)	1

PART #		NAME AND DESCRIPTION	QUANTITY
5.2000C - WATER BYPASS TUBE			
5119425		FLANGE (.90" I.D.)	1
5142549		PLUG, 3/4" PIPE SQ. SOC. (12.9550)	1
5184301		SEAL RING (4.4060)	1
5144702		CONNECTOR, 3/4" PIPE (5.2165)	1
186625		BOLT, 5/16"-18X7/8"	2
103320		LOCKWASHER, 5/16"	AR
HOSE, WATER BYPASS TUBE			
5169721		HOSE, 7/8"X24"L. (CUT L. 1.74")	1
5186840		CLAMP, 1 1/2" I.D. (12.9660)	2
5.3000B - WATER CONNECTIONS			
ELBOW, OIL COOLER WATER-OUTLET			
5119026	&	ELBOW, 3,4-53	1
103320		LOCKWASHER, 5/16"	2
179819		BOLT, 5/16"-18X1.125"	2
& NOT SERVICED; USE 5138275 PLUS (2) 5145014 PLUGS.			
GASKET, OIL COOLER WATER OUTLET ELBOW			
5116357		GASKET	1
HOSE, OIL COOLER WATER OUTLET			
5199777		HOSE, 1 7/8" I.D. 3, 4-53 (5.3422) (CUT L. 4 3/4")	1
23505048		CLAMP, 2"-2 1/2" DIA. HOSE	2
5.4000A - FAN			
BLADE, FAN HIGH LOW AND CRANKSHAFT MOUNT			
5106199		BLADE (22 -5 BLADE, BLOWER)	1
186625		BOLT, 5/16"-18X7/8"	4
103320		LOCKWASHER, 5/16"	4
PULLEY AND HUB ASSY., FAN			
5122869		PULLEY ASSY.	1
BRACKET, FAN SHAFT			
5116477		BRACKET	1
SHAFT, FAN			
905619	*	SHAFT (INCLUDES BEARING) (N.D. 885803S1648C)	1
* NOT SERVICED, FOR SERVICE USE 8922500 BEARING ASSY.			
HUB, FAN			
5116483		PULLEY, 5.38" DIA. (2 GROOVES)	1
SUPPORT, FAN MOUNTING			
5126868		SUPPORT	1
186282		BOLT, 3/8"-16X3 1/4"	2
186619		BOLT, 3/8"-16X1 1/8"	2
103321		LOCKWASHER, 3/8"	4
BRACKET, FAN SHAFT			
103321		LOCKWASHER, 3/8"	AR
186612		BOLT, 3/8"-16X1 3/8"	3
103341		WASHER, 3/8"	AR

PART #		NAME AND DESCRIPTION	QUANTITY
6.1000A - EXHAUST MANIFOLD AND/OR CONNECTIONS			
MANIFOLD, EXHAUST			
5179382		MANIFOLD, 4-53,8V-53	1
5104439		WASHER, (DISHED) 7/16" (6.1001)	5
113175	*	PLUG, 1/8" PIPE (12.9550)	1
23505398		NUT, 7/16"-20 (12.9120)	5
* AT 1 FOR A 3 CYL.; 2 FOR A 6 CYL.			
GASKET, EXHAUST MANIFOLD			
5119006		GASKET, 4-53,8V-53	1
STUD, EXHAUST MANIFOLD TO HEAD			
8925804		STUD, 7/16"-14/20X2 3/32" (6.1020)	5
6.2000A - EXHAUST MUFFLER AND/OR CONNECTIONS			
FLANGE, EXHAUST			
5108467		FLANGE, 3" NPTF (ITEM 4)	1
103321		LOCKWASHER, 3/8"	AR
114547		NUT, 3/8"-24 (12.9120)	4
GASKET, EXHAUST OUTLET			
5145238		GASKET (6.2105)	1
STUD, EXHAUST OUTLET			
5109158		STUD, 3/8"-16/24X2 1/2" (6.2115)	4

PART #		NAME AND DESCRIPTION	QUANTITY
7.1000A - BATTERY, CHARGING GENERATOR			
GENERATOR ASSY.			
SERVICE ON ELECTRICAL EQUIPMENT IN THIS SECTION IS HANDLED THROUGH AC DELCO			
1103131	*	GENERATOR, 12V. 42 AMP. CW/CCW (METRIC)	1
11500192		LOCKWASHER, M10	1
11500730		BOLT, M10X1.5X110.0 MM	1
5131433		WASHER, .41"X.81"X.1345" (1.5001)	2
11501052		NUT, M10X1.5	1
* NOT SERVICED BY DDC.			
FAN, GENERATOR			
1970765	*	FAN (INCLUDES BAFFLE)	1
* NOT SERVICED BY DDC.			
PULLEY, GENERATOR			
5132527		PULLEY, 2.76" DIA. 2 GROOVES	1
BELT, GENERATOR DRIVE			
ALL BELTS UNLESS INDICATED (M.S.) ''MILITARY STANDARD'' OR ''POLY-VEE'' ARE ''PREMIUM'' POLYESTER BELTS.			
5133173		BELT SET (2 BELTS, 42" L. X .380" W.) COGGED	1
STRAP, GENERATOR ADJUSTING			
5102731		STRAP	1
186624		BOLT, 5/16"-18 X 1 1/4"	1
103320		LOCKWASHER, 5/16"	1
5121403		WASHER, 21/64" (3.4080)	1
120376		NUT, 5/16"-18	1
BRACKET, GENERATOR ADJUSTING STRAP			
5102729		BRACKET	1
11500868		BOLT, M8X1.25X30.0 MM	1
186619		BOLT, 3/8"-16X1 1/8"	1
11500191		LOCKWASHER, M8 (12.9200)	1
103321		LOCKWASHER, 3/8"	1
BRACKET, GENERATOR MOUNTING			
5137947		BUSHING, SLOTTED .72" L.	1
8921666		BRACKET (RH) (METRIC)	1
103321		LOCKWASHER, 3/8"	3
186628		BOLT, 3/8"-16X1 1/2"	3
WIRE ASSY., GENERATOR TO REGULATOR			
5100420		WIRE ASSY., 12 & 24 VOLT	1
11504530		NUT, M6	1
7.3000A - STARTING MOTOR			
MOTOR ASSY., STARTING			
SERVICE ON ELECTRICAL EQUIPMENT IN THIS SECTION IS HANDLED THRU AC DELCO.			
1990498	*	MOTOR ASSY., 12V. C.W. GRD. (MT LT S1)	1
5131967		BOLT, 5/8"-11X1 3/4" 12 PT. (12.9005)	3
103325		LOCKWASHER, 5/8"	2
* NOT SERVICED BY DDC.			
GASKET, STARTING MOTOR			
5130995		GASKET	1

PART #	NAME AND DESCRIPTION	QUANTITY
11.1000A - ENGINE MOUNTING AND BASE		
SUPPORT, ENGINE FRONT		
5128660	SUPPORT	1
186283	BOLT, 3/8"-16X3 1/2"	4
193221	BOLT, 7/16"-14X1 1/4"	2
103321	LOCKWASHER, 3/8"	AR
103322	LOCKWASHER, 7/16"	AR
SUPPORT, ENGINE FRONT TRUNNION MOUNTING		
A SUPPORT ASSY. INCLUDES BOLTS AND LOCKWASHERS.		
5122523	SUPPORT ASSY.	1
103321	LOCKWASHER, 3/8"	2
186628	BOLT, 3/8"-16X1 1/2"	2
RING, ENGINE FRONT TRUNNION MOUNTING SUPPORT CUSHION		
5122409	RING (CUSHION)	1

PART#	NAME AND DESCRIPTION
12.8000A - SUPPLIES	
COMPOUND, THREAD LUBRICATING	
5198563	INTERNATIONAL COMPOUND #2 (5 GALLON CAN)
23509545	SEAL, ANTI-SEIZE HEAT & RUST (1 LB.)
SEALER, THREADLOCK	
23509535	THREADLOCK, MEDIUM STRENGTH (50 ML.)
23509536	THREADLOCK, MEDIUM STRENGTH (10 ML.)
23509537	THREADLOCK 262, HIGH STRENGTH (10 ML.)
23509538	THREADLOCK, HIGH STRENGTH (50 ML.)
23509539	THREADLOCK 290, HIGH STRENGTH (10 ML.)
23509542	SEALER, THREAD (50 ML.)
23509544	SEALER, COMPOUND (50 ML.)
SEALANT, RTV	
23509540	SEALANT, GASKET ELIMINATOR (50 ML.)
23509541	SEALANT, GASKET ELIMINATOR (300 ML.)
23509543	SEALANT, ULTRA BLUE RTV (3 OZ.)
23509603	SEALANT, BLACK RTV (11 OZ.)
ADDITIVES, SUPPLEMENTAL COOLANT	
23507854	SUPPLEMENTAL COOLANT ADDITIVE (1 PT.) (DD-3000-P)
23507855	SUPPLEMENTAL COOLANT ADDITIVE (1/2 GAL.) (DD-30000-HG)
23507856	SUPPLEMENTAL COOLANT ADDITIVE (5 GAL.) (DD-3000-11)
23507857	SUPPLEMENTAL COOLANT ADDITIVE (55 GAL.) (DD-3000-15)
23507858	SUPPLEMENTAL COOLANT ADDITIVE (1 PT.) (DD-2000-P)
23507859	SUPPLEMENTAL COOLANT ADDITIVE (1/2 GAL.) (DD-2000-HG)
23507860	SUPPLEMENTAL COOLANT ADDITIVE (5 GAL.) (DD-2000-11)
23507861	SUPPLEMENTAL COOLANT ADDITIVE (55 GAL.) (DD-2000-15)
23512138	PRECHARGED COOLANT (1 GAL.)
23512139	PRECHARGED COOLANT (55 GAL.)
23512140	PRECHARGED COOLANT (BULK)
CLEANER, COOLANT SYSTEM	
23507862	CLEANER, COOLANT SYSTEM (1/2 GAL.) (DD-2001-HG)
23507863	CLEANER, COOLANT SYSTEM (5 GAL.) (DD-2001-11)
23507864	CLEANER, COOLANT SYSTEM (55 GAL.) (DD-2001-15)
23507867	CLEANER, COOLANT SYSTEM (TWIN PACK) (DD-2015-49)
ANALYSIS KIT, COOLANT	
23516921	ANALYSIS KIT, COOLANT
23515917	TEST STRIP, TWO-WAY COOLANT
ADDITIVES, DIESEL FUEL	
23507868	ADDITIVES, FUEL (1 PT.) (DD-2020-P)
23507869	ADDITIVES, FUEL (5 GAL,) (DD-2020-11)
23507870	ADDITIVES, FUEL (55 GAL.) (DD-2020-15)
23507871	ADDITIVES, FUEL (1 PT.) (DD-1000-P)
23507872	ADDITIVES, FUEL (5 GAL.) (DD-1000-11)
23507873	ADDITIVES, FUEL (55 GAL.) (DD-1000-15)
ANALYSIS KIT, FUEL	
23516922	ANALYSIS KIT, FUEL

PART#	NAME AND DESCRIPTION

12.8000A - SUPPLIES

PAINT, ENGINE TOUCH-UP

5194974	PAINT (12 OZ. SPRAY CAN) (ALPINE GREEN)
5149634	PAINT (12 OZ. SPRAY CAN) (GRAY)
5149635	PAINT (12OZ. SPRAY CAN) (GOLD)
5149996	PAINT (12 OZ. SPRAY CAN) (SILVER)
5149633	PAINT (12 OZ. SPRAY CAN) (ALUM. PRIMER)
8929666	PAINT (12 OZ. SPRAY CAN) (BLUE)
8929668	PAINT (12 OZ.) (CLEAR)
5149740	PAINT (1 GALLON) (ALUM. PRIMER)
5149739	PAINT (1 GALLON) (METAL GRAY)
5194975	PAINT (1 GALLON) (ALPINE GREEN)
5149997	PAINT (1 GALLON) (SILVER)
23511690	PAINT (1 GALLON) (WHITE ENAMEL: MARINE)
8929665	PAINT (1 GALLON) (BLUE)
8929667	PAINT (1 GALLON) (CLEAR)

OIL, ENGINE LUBRICATING

23513856	1 GAL. DELVAC 1230D 2 CYL ENG
23512733	5 GAL. DELVAC 1230D 2 CYL ENG
23512737	55 GAL. DELVAC 1230D 2 CYL ENG
23512699	BULK DELVAC 1230D 2 CYL ENG
23512701	1 GAL. DELVAC 1240D 2 CYL ENG
23512734	5 GAL. DELVAC 1240D 2 CYL ENG
23512702	55 GAL. DELVAC 1240D 2 CYL ENG
23512739	BULK DELVAC 1240D 2 CYL ENG
23512735	5 GAL. DELVAC 1250D 2 CYL ENG
23512738	55 GAL. DELVAC 1250D 2 CYL ENG
23512700	BULK DELVAC 1250D 2 CYL ENG
23512703	1 GAL. DELVAC 1300 SUPER 4 CYL ENG
23512741	5 GAL. DELVAC 1300 SUPER 4 CYL ENG
23512704	55 GAL. DELVAC 1300 SUPER 4 CYL ENG
23509885	1 GAL DELVAC MEO 40 METHANOL ENG
23509886	5 GAL. DELVAC MEO 40 METHANOL ENG
23509887	55 GAL. DELVAC MEO 40 METHANOL ENG
23509888	BULK DELVAC MEO 40 METHANOL ENG
80W90P	35 LB. PAIL MOBILUBE HD 80W90
80W90K	120 LB. KEG MOBILUBE HD 80W90
80W90D	400 LB. DRUM MOBILUBE HD 80W90
85W140P	35 LB. PAIL MOBILUBE HD 85W140
85W140K	120 LB. KEG MOBILUBE HD 85W140
85W140D	400 LB. DRUM MOBILUBE HD 85W140
75W90P	35 LB. PAIL MOBILUBE SHC 75W90
75W90K	120 LB. KEG MOBILUBE SHC 75W90
75W90D	400 LB. DRUM MOBILUBE SHC 75W90
80W140P	35 LB. PAIL MOBILUBE SHC 80W140
80W140K	120 LB. KEG MOBILUBE SHC 80W140
80W140D	400 LB. BARREL MOBILUBE SHC 80W140
SHC50P	35 LB. PAIL MOBILTRANS SHC 50
SHC 50K	120 LB. KEG MOBILTRANS SHC 50
SHC50D	375 LB. DRUM MOBILTRANS SHC 50
ATFQUART	12 QUART MOBIL MULTI-PURPOSE ATF
AFTGAL	1 GAL. PAIL MOBIL MULTI-PURPOSE ATF
ATFDRUM	55 GAL. MOBIL MULTI-PURPOSE ATF
ATFBULK	BULK MOBIL MULTI-PURPOSE ATF
GREASEC	60X14 OZ. CARTRIDGES MOBILGREASE SPECIAL
GREASEK	120 LB. KEG MOBILGREASE SPECIAL
GREASED	400 LB. DRUM MOBILGREASE SPECIAL

OIL, ENGINE LUBRICATING

HPCART	60X14 0Z. CARTRIDGES MOBILGREASE HP
HPKEG	120 LB. KEG MOBILGREASE HP
HPDRUM	400 LB. DRUM MOBILGREASE HP
MOBIL424	55 GAL. MOBILFLUID 424