

DETROIT DIESEL

V-53 Parts Catalog



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DETROIT DIESEL

CORPORATION



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Note: All references in this catalog to DDA and/or General Motors Corporation shall be read to mean Detroit Diesel Corporation (DDC).

CAUTION METRICS AT WORK

Detroit Diesel Engines contain parts dimensioned in the metric system as well as in the customary system. Many fasteners are metric and are very close in dimension to familiar customary fasteners in the inch system. It is important to note that, during any maintenance procedures, replacement fasteners must have the same measurements and strength as those removed, whether metric or customary. (Numbers on the heads of metric bolts and on surfaces of metric nuts indicate their strength. Customary bolts use radial lines for this purpose, while most customary nuts do not have strength markings.) Mismatched or incorrect fasteners can result in engine damage or malfunction, or possibly personal injury. Therefore, fasteners removed from the engine should be saved for re-use in the same locations whenever possible. Where the fasteners are not satisfactory for re-use, care should be taken to select a replacement that matches the original. For information and assistance, see your Detroit Diesel Allison Service Outlet.

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

GENERAL INFORMATION

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All engine components in this catalog are divided into twelve major groups of functionally related parts. A listing of the groups and their sub-groups appears under "Group Nomenclature" on page 4 of this section.

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

Each Engine Model is provided with a Model Index, showing Standard type numbers currently available on the model. Standard option types are indicated by a • symbol. Standard option and all optional type numbers are listed on the engine Option Plate, as shown in the illustration below.

The names and type numbers of optional equipment built into the unit at the factory are listed on this plate, along with the unit model, serial number and customer specification number (if any). Material not listed on the Option Plate is standard equipment and the type number is obtained from the model index. (Copies of the information, on the Option Plate Work Sheet, are furnished to distributors for their files.)

To locate a part, first, establish the group where the part is used (see the Alphabetical Index or Group Nomenclature page) then, determine the type number for the group from either the Option Plate or the Model Index. With this information, turn to the

proper group and locate the type number at the top of the page. All parts applicable to the type are indicated by the quantity indicated in the column. An AR in this column indicates an "as required" quantity.

EXAMPLE

For purposes of illustration, a model 5063-5000 unit will be used. The following examples cover the steps to be followed:

1. To determine the part number of the crankshaft, refer to the Option Plate and note there is no reference to it, indicating it is standard equipment. Next turn to the Model Index and establish that the crankshaft is type 44 in group 1.3000. Turn to group 1.3000 and locate type 44 at the top of the page. All items with a quantity in this column apply to this unit. In sub-group 1.3001 crankshaft assy., the quantity in type 44 column shows the crankshaft to be part number 5144616.
2. To determine the proper crankshaft pulley for this unit again refer to the Option Plate and note that Crankshaft Pulley type number is 171, consult the group nomenclature page to establish that crankshaft pulley is group 1.3000C. Now turn to group 1.3000C and find type 171 at the top of the page. The quantity shown in type 171 at sub-group 1.3280 shows the crankshaft pulley to be part number 5109638.

TYPE	EQUIPMENT	TYPE	EQUIPMENT	TYPE	EQUIPMENT	TYPE	EQUIPMENT
• 101	F/R HOUSING	• 102	FLYWHEEL	• 201	OIL PAN	• 301	OIL DIST.
• 103	OIL FIL CAP	• 104	OIL COOLER	• 202	DIPSTICK	• 302	OIL FILTER
• 105	VENT SYSTEM	• 106	C/S COVER	• 203	OIL PRESS REG.	• 303	FAN
• 107	C/S PULLEY	• 108	C/S PUL BELT	• 204	WATER PUMP	• 304	WATER CONN.
• 109	WAT BY-PASS	• 110	THERMOSTAT	• 205	WAT OILY FLRO.	• 305	ERM MFLD
• 111	FUEL PUMP	• 112	INJECTOR N45	• 206	FUEL FILTER	• 306	FUEL LINES
• 113	AIR INLY HSG	• 114	THROTTLE CONT.	• 207	THROTTLE CONT.	• 307	GOVERNOR MECH.
• 115	ENGINE MOUNTS	• 116	CAM/GR TRAIN	• 208	ROCKER COVER	• 308	BATT CHRG GEN.
• 117	STARTING MTR	• 118	MUFFLER CONN.	• 209	INSTRUMENTS	• 309	TACH DRIVE
• 119	INSTRUMENTS	• 120	GOV'T WARRANTY	• 210	MAX RPM NL 02950	• 310	STD GT-STD CAM
50	UNIT	MODEL				SERIAL NO.	MODEL
						DETROIT DIESEL ALLISON DIV	G.M.C. U.S.A.



DETROIT DIESEL

ASSEMBLY BREAKDOWN

The Assembly Breakdown section is designed to eliminate repeating components of assemblies and sub-assemblies. When the Assembly Breakdown is used it is always found at the end of the group it pertains to. The pages are easily identified. They are numbered with an alphabetical prefix. Assemblies which make use of the Assembly Breakdown will have a note to that effect under the sub-group heading. The note will refer to the page on which the assembly is shown. The part number will appear in the first group of the Assembly Breakdown showing the quantity used in one of the alphabetically designated columns. All other items appearing in that column are components of the assembly.

ALPHABETICAL INDEX

The Alphabetical Index on page 5 is particularly helpful when only a part name is known and the group cannot readily be determined. Parts are listed alphabetically by noun name, followed by a description of the application of the part and the final group location.

PARTS RELEASE

A Parts Release on Microfiche, is issued monthly to keep this catalog up-to-date. It consists of revised fiche for insertion in the set. All new Fiche carry a date of issue. These should be inserted into the deck immediately upon receipt. Old Fiche may then be destroyed.

A checklist is included with each monthly Microfiche update. The checklist will indicate, by date, those Fiche revised and reissued.

MISCELLANEOUS

At the beginning of each of the sections of this catalog there are several pages of illustrations. In each section of the parts list figure numbers refer to illustrations within that section only unless otherwise noted. In the majority of cases illustrations are typical, that is, they may represent more than one part number. For example, in the case of the flywheel housing, figure 3B of section 1.0000, a single housing is shown to represent all housings. Key numbers on illustrations are final group numbers.

In many instances a part has more than one application. Wherever a part appears in its second or third application the basic group is shown in parentheses following the description.

Unless otherwise specified, standard bolts in the parts list are hexagon head. Other standard parts are described in detail.

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

YOUR PARTS ORDER WILL BE HANDLED MORE EFFICIENTLY IF YOU—

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

GROUP NOMENCLATURE

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

ALPHABETICAL INDEX

PART NAME	GROUP NO.	PART NAME	GROUP NO.
* SEE ENGINE MODEL.			
A			
ACCUMULATOR, AIR HEATER	7. 8415	BEARING, BLOWER ROTOR REAR	3. 4060
ACCUMULATOR, HYDRAULIC STARTER	12. 6570	BEARING, CAMSHAFT END	1. 7010
ADAPTOR, ACCESSORY DRIVE	1. 7622	BEARING, CLUTCH DRIVE SHAFT	8. 1680
ADAPTOR, AIR CLEANER MOUNTING	3. 1085	BEARING, CLUTCH PILOT	1. 4040
ADAPTOR, AIR COMPRESSOR	12. 4020	BEARING, CLUTCH PILOT	8. 1450
ADAPTOR, AIR INLET HOUSING	3. 3004	BEARING, CLUTCH RELEASE	8. 1290
ADAPTOR, AIR SILENCER	3. 2015	BEARING, CLUTCH SHAFT	9. 1033
ADAPTOR, CYLINDER HEAD GOVERNOR CONTROL LINK	2. 7830	BEARING, CRANKSHAFT FRONT SUPPORT	4. 1219
ADAPTOR, CYLINDER HEAD GOVERNOR CONTROL LINK	2. 8945	BEARING, FAN BELT IDLER PULLEY	5. 4332
ADAPTOR, DIPSTICK	4. 6020	BEARING, FAN SHAFT	5. 4110
ADAPTOR, DIPSTICK	4. 6030	BEARING, FRESH WATER PUMP	5. 1070
ADAPTOR, FLANGE MOUNTED ALTERNATOR	7. 1588	BEARING, FRESH WATER PUMP IDLER PUMP	5. 1202
ADAPTOR, FLYWHEEL HOUSING	1. 5130	BEARING, GENERATOR DRIVE	7. 1535
ADAPTOR, FRESH WATER PUMP	5. 1005	BEARING, GOVERNOR DRIVE THRUST	2. 8830
ADAPTOR, FUEL PUMP DRIVE	2. 2260	BEARING, GOVERNOR DRIVEN SHAFT	2. 8810
ADAPTOR, HYDRAULIC MARINE GEAR OIL PUMP	9. 1477	BEARING, GOVERNOR OPERATING SHAFT	8. 3410
ADAPTOR, HYDRAULIC PUMP	12. 5020	BEARING, GOVERNOR OPERATING SHAFT-LOWER	2. 7270
ADAPTOR, MARINE GEAR HOUSING	9. 1007	BEARING, GOVERNOR OPERATING SHAFT-UPPER	2. 7260
ADAPTOR, OIL COOLER	4. 4110	BEARING, GOVERNOR PILOT VALVE PLUNGER THRUST	2. 8610
ADAPTOR, OIL FILLER TUBE	4. 5005	BEARING, GOVERNOR RISER THRUST	8. 3425
ADAPTOR, OIL FILTER	8. 3873	BEARING, GOVERNOR ROCKER SHAFT	8. 3440
ADAPTOR, OIL FILTER COVER	4. 2291	BEARING, GOVERNOR THROTTLE SHAFT	2. 7100
ADAPTOR, OIL FILTER TUBE (TO OIL COOLER ADAPTOR)	4. 3025	BEARING, GOVERNOR VARIABLE SPEED SPRING LEVER	2. 7732
ADAPTOR, OIL FILTER TUBE-REMOTE MOUNTED FILTER	4. 3025	BEARING, GOVERNOR VARIABLE SPEED SPRING LEVER SHAFT	2. 7712
ADAPTOR, OVERSPEED TRIP GOVERNOR	7. 4635	BEARING, GOVERNOR WEIGHT RISER THRUST	2. 7460
ADAPTOR, POWER TAKE-OFF TO CLUTCH	8. 1905	BEARING, GOVERNOR WEIGHT SHAFT END	2. 7470
ADAPTOR, TACHOMETER DRIVE CABLE	7. 4420	BEARING, HYDRAULIC STARTER END	12. 6540
ADAPTOR, TACHOMETER DRIVE COVER	7. 4457	BEARING, HYDRAULIC STARTER ENGINE PUMP	12. 6602
ADAPTOR, TACHOMETER MOUNTING	7. 4061	BEARING, HYDRAULIC STARTER ENGINE PUMP PISTON	12. 6610
ADAPTOR, TORQUE CONVERTER DIPSTICK	8. 3841	BEARING, IDLER GEAR	1. 7225
ADAPTOR, WATER TEMPERATURE GAGE	7. 4084	BEARING, MARINE GEAR INPUT SHAFT	9. 1027
ADAPTOR, WATER TEMPERATURE SWITCH	7. 4509	BEARING, OUTPUT SHAFT	9. 1097
AIR CLEANER ASSY.	3. 1001	BEARING, OVERSPEED TRIP GOVERNOR OPERATING SHAFT	7. 4647
AMMETER, BATTERY CHARGING	7. 4015	BEARING, PISTON PIN	1. 6142
ANTI-SQUEAK ENGINE HOOD	10. 1070	BEARING, PLANETARY GEAR	9. 1087
ARM ASSY., EXHAUST VALVE ROCKER	1. 8060	BEARING, RAW WATER PUMP	5. 6130
ARM ASSY., INJECTOR ROCKER	1. 8080	BEARING, REDUCTION GEAR DRIVE SHAFT PILOT	9. 1345
ARM, FAN BELT IDLER PULLEY ADJUSTING	5. 4343	BEARING, REDUCTION GEAR DRIVE SHAFT THRUST	9. 1350
ARM, IDLER PULLEY ADJUSTING	5. 1201	BEARING, ROTOR ASSY. SHAFT	3. 5027
B			
AFFLE, AIR CLEANER	3. 1045	BEARING, THRUST CLUTCH HOUSING GEAR	9. 1041
AFFLE, BREATHER	4. 8025	BELL CRANK ASSY., GOVERNOR OPERATING	2. 8965
AFFLE, GENERATOR FAN	7. 1470	BELL CRANK, GOVERNOR TO INJECTOR LINK	2. 7823
AFFLE, MARINE GEAR HOUSING OIL	9. 1380	BELL, ALARM SYSTEM	7. 4513
AFFLE, MARINE GEAR OIL	9. 1380	BELLOWS ASSY., AIR SHUTDOWN	3. 4414
AFFLE, OIL PAN	4. 7045	BELT, ACCESSORY DRIVE	1. 7625
AFFLE, REDUCTION HOUSING OIL	9. 1386	BELT, AIR COMPRESSOR DRIVE	12. 4045
ALL HEAD ASSY., GOVERNOR	2. 8560	BELT, CRANKSHAFT PULLEY DRIVE	1. 3320
ALL HEAD, HYDRAULIC OVERSPEED TRIP GOVERNOR	7. 4617	BELT, FRESH WATER PUMP DRIVE	5. 1215
ASE KIT, GOVERNOR	2. 8690	BELT, GENERATOR DRIVE	7. 1575
ASE, ENGINE MOUNTING	11. 1001	BELT, HYDRAULIC STARTER ENGINE PUMP DRIVE	12. 6676
ASE, GOVERNOR	8. 3380	BELT, VACUUM PUMP DRIVE	12. 3030
BEARING, ACCESSORY DRIVE	1. 7655	BLADE, FAN	5. 4010
BEARING, AIR COMPRESSOR DRIVE SHAFT	12. 4048	BLADE, FAN HIGH LOW AND CRANKSHAFT MOUNTED	5. 4010
BEARING, BILGE PUMP SHAFT	12. 2100	BLOCK, CYLINDER	1. 1001
BEARING, BLOWER ROTOR FRONT	3. 4040	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

ALPHABETICAL INDEX

PART NAME	GROUP NO.	PART NAME	GROUP NO.
B		B	
BLOWER DRIVE SHAFT	3. 4000A	BRACKET, GOVERNOR SPEED ADJUSTING SHAFT	8. 3455
BLOWER KIT, INSTALLATION	3. 4003	BRACKET, GOVERNOR THROTTLE SPEED	
BLOWER KIT, REPAIR	3. 4005	ADJUSTING SHAFT	2. 7172
BODY ASSY., INJECTOR	2. 1020	BRACKET, GOVERNOR TO INJECTOR LINK BELL	
BODY ASSY., MASTER CYLINDER	12. 6810	CRANK	2. 7821
BODY, AIR CLEANER	3. 1030	BRACKET, HEAT EXCHANGER MOUNTING	5. 5070
BODY, AIR HEATER	7. 8030	BRACKET, HEAT EXCHANGER RAW WATER INLET	
BODY, BILGE PUMP	12. 2010	TUBE CLIP	5. 5405
BODY, BREATHER OR SEPARATOR	4. 8050	BRACKET, HYDRAULIC STARTER ENGINE PUMP	12. 6670
BODY, FRESH WATER PUMP	5. 1030	BRACKET, HYDRAULIC STARTER HAND PUMP	12. 6684
BODY, FUEL PUMP	2. 2010	BRACKET, INJECTOR CONTROL TUBE	2. 9003
BODY, GOVERNOR	8. 3370	BRACKET, LOW OIL PRESSURE SWITCH	4. 2495
BODY, HYDRAULIC STARTER CONTROL VALVE	12. 6517	BRACKET, OIL COOLER HOUSING SUPPORT	4. 4100
BODY, HYDRAULIC STARTER ENGINE PUMP	12. 6595	BRACKET, OIL FILLER TUBE CLAMP	4. 5004
BODY, HYDRAULIC STARTER HAND PUMP	12. 6633	BRACKET, OIL FILTER LINE CLIP	4. 3050
BODY, OIL PUMP	4. 1040	BRACKET, OIL FILTER MOUNTING	2. 8995
BODY, WATER FILTER	5. 7013	BRACKET, OIL FILTER MOUNTING	4. 2440
BOLT, AIR CLEANER ASSY.	3. 1070	BRACKET, OIL PAN DRAIN TUBE	4. 7112
BOLT, CRANKSHAFT MAIN BEARING CAP	1. 3140	BRACKET, OIL PUMP SCREEN SUPPORT	4. 1540
BOLT, ROCKER COVER	1. 8460	BRACKET, OVERSPEED VALVE MOUNTING	7. 4742
BOOT, GOVERNOR TO INJECTOR LINK	2. 7834	BRACKET, RADIATOR MOUNTING	5. 3260
BOOT, HYDRAULIC STARTER HAND PUMP CAM	12. 6645	BRACKET, RAW WATER PUMP MOUNTING	5. 6380
BOOT, INJECTOR CONTROL TUBE LINK	2. 8950	BRACKET, REVERSE GEAR MOUNTING	9. 1011
BRACKET ASSY., TURBOCHARGER MOUNTING	3. 5300	BRACKET, ROCKER SHAFT	1. 8170
BRACKET, ACCESSORY DRIVE	1. 7607	BRACKET, SOLENOID VALVE MOUNTING	7. 4670
BRACKET, ACCESSORY MOUNTING	1. 7609	BRACKET, STARING CONTROL ROD	7. 4567
BRACKET, AIR CLEANER MOUNTING	3. 1230	BRACKET, STARTING AID	12. 6391
BRACKET, AIR COMPRESSOR MOUNTING	12. 4010	BRACKET, THROTTLE BOOSTER SPRING	2. 7975
BRACKET, AIR HEATER COIL	7. 8090	BRACKET, THROTTLE BOOSTER SPRING	2. 9344
BRACKET, AIR HEATER PUMP AND VALVE	7. 8203	BRACKET, THROTTLE CONTROL CROSS	
BRACKET, AIR SHUTOFF SOLENOID	7. 4530	SHAFT-ENGINE LIFTER	2. 9305
BRACKET, AIR SHUTOFF VALVE CONTROL	3. 3280	BRACKET, THROTTLE CONTROL KNOB SHAFT	2. 9150
BRACKET, BREATHER EXTENSION PIPE	4. 8183	BRACKET, THROTTLE CONTROL SHAFT TO HEAD	2. 9275
BRACKET, CONVERTER OIL FILTER MOUNTING	8. 3880	BRACKET, THROTTLE CONTROL SOLENOID	2. 9357
BRACKET, CYLINDER THROTTLE DELAY ROCKER		BRACKET, TORQUE CONVERTER OUTPUT SHAFT	
SHAFT	2. 9030	GOVERNOR	8. 3083
BRACKET, DRAIN TANK MOUNTING	1. 1240	BRACKET, TRANSMISSION CABLE	2. 9960
BRACKET, ENGINE LIFTER-FRONT	1. 2070	BRACKET, TRANSMISSION CABLE MT	2. 9960
BRACKET, ENGINE LIFTER-REAR	1. 2080	BRACKET, TURBOCHARGER MOUNTING	3. 5300
BRACKET, ENGINE SUPPORT	11. 1075	BRACKET, TURBOCHARGER SUPPORT	3. 5002
BRACKET, EXPANSION TANK INLET CONNECTION	5. 3315	BRACKET, WATER FILTER MOUNTING	5. 7080
BRACKET, FAN BELT IDLER PULLEY	5. 4337	BRACKET, WATER HEATER	12. 6406
BRACKET, FAN BELT IDLER PULLEY ADJUSTING		BREATHER ASSY.	4. 8045
ARM STOP	5. 4346	BREATHER, MARINE GEAR	9. 1840
BRACKET, FAN BELT IDLER PULLEY SPRING	5. 4355	BRIDGE, EXHAUST VALVE	1. 8343
BRACKET, FAN SHAFT	5. 4090	BUSHING AND SCREEN ASSY., STARTING AID	
BRACKET, FILTER TO CYLINDER HEAD CLIP	2. 5190	TANK AND STRAINER	12. 6363
BRACKET, FRESH WATER PUMP IDLER PULLEY	5. 1205	BUSHING INJECTOR ROCKER ARM-LARGE	1. 8110
BRACKET, FUEL DRAIN CLIP	2. 5230	BUSHING, BILGE PUMP SHAFT	12. 2090
BRACKET, FUEL FILTER MOUNTING	2. 3530	BUSHING, CONNECTING ROD PISTON PIN	1. 6040
BRACKET, FUEL PRIMER	12. 6658	BUSHING, GOVERNOR SPEED ADJUSTING SHAFT	
BRACKET, FUEL STRAINER MOUNTING	2. 3260	SLEEVE	2. 8364
BRACKET, GENERATOR ADJUSTING STRAP	7. 1582	BUSHING, GOVERNOR SPEED ADJUSTING	
BRACKET, GENERATOR DRIVE BELT AND PULLEY		TERMINAL SLEEVE	2. 8483
GUARD	7. 1587	BUSHING, GOVERNOR TO INJECTOR LINK BELL	
BRACKET, GENERATOR MOUNTING	7. 1595	CRANK	2. 7825
BRACKET, GENERATOR VOLTAGE REGULATOR		BUSHING, INJECTOR AND EXHAUST VALVE	
MOUNTING	7. 1606	ROCKER ARM CLEVIS	1. 8140
BRACKET, GOVERNOR	2. 8920	BUSHING, INJECTOR AND EXHAUST VALVE	
BRACKET, GOVERNOR AND TRANSMISSION		ROCKER ARM-SMALL	1. 8120
CONTROL MT	2. 9920	BUSHING, MUFFLER PIPE	6. 2005
BRACKET, GOVERNOR CONTROL RETRACTING		BUSHING, OIL PUMP BODY	4. 1050
SPRING	2. 9406	BUSHING, OIL PUMP COVER	4. 1240
BRACKET, GOVERNOR CONTROL SHAFT REAR	2. 9220	BUSHING, OIL PUMP DRIVEN GEAR	4. 1210
BRACKET, GOVERNOR SOLENOID VALVE		BUSHING, OVERSPEED TRIP GOVERNOR	
MOUNTING	2. 7922	HOUSING	7. 4615
BRACKET, GOVERNOR SPEED ADJUSTING LEVER	2. 8440	BUSHING, PISTON PIN	1. 6145

ALPHABETICAL INDEX

PART NAME	GROUP NO.	PART NAME	GROUP NO.
B		C	
BUSHING, STARTING MOTOR CABLE INSULATION	11. 1035	CLAMP, HEAT EXCHANGER TO WATER PUMP HOSE	5. 3341
BUSHING, THROTTLE CONTROL SHAFT BRACKET	2. 9160	CLAMP, INJECTOR	2. 1270
BUSHING, VERNIER THROTTLE CONTROL WORM	2. 9142	CLAMP, OIL COOLER WATER INLET	4. 4214
BUTTON, VERNIER THROTTLE CONTROL LOCK	2. 9145	CLAMP, OIL COOLER WATER INLET HOSE	4. 4214
C		CLAMP, OIL PRESSURE GAGE	7. 4072
CABINET, POWER GENERATOR CONTROL	7. 6001	CLAMP, OIL TEMPERATURE GAGE	7. 4078
CABLE ASSY., TRANSMISSION CONTROL	2. 9940	CLAMP, RADIATOR INLET HOSE	5. 3300
CABLE ASSY., TRANSMISSION CONTROL MT	2. 9940	CLAMP, RADIATOR OUTLET HOSE	5. 3340
CABLE, FLEXIBLE SHAFT	12. 8500	CLAMP, TACHOMETER	7. 4065
CABLE, GENERATOR TO CONTROL CABINET	7. 7220	CLAMP, TACHOMETER DRIVE ADAPTOR	
CABLE, TACHOMETER DRIVE FLEXIBLE	7. 4408	RETAINING	7. 4433
CAGE, INJECTOR CHECK VALVE	2. 1205	CLAMP, WATER TEMPERATURE GAGE	7. 4082
CAGE, INJECTOR VALVE	2. 1265	CLEVIS, INJECTOR AND EXHAUST VALVE ROCKER ARM	1. 8130
CAGE, INJECTOR VALVE SPRING	2. 1257	CLIP, AIR BOX DRAIN TUBE	1. 1145
CAGE, PLANETARY GEAR	9. 1081	CLIP, AIR COMPRESSOR BOOSTER INLET TUBE AND ELBOW ASSY.	12. 4377
CAM, AIR SHUTDOWN SHAFT	3. 4424	CLIP, AIR COMPRESSOR LUBE OIL TUBE	12. 4080
CAM, BLOWER DRIVE COUPLING	3. 4390	CLIP, AIR COMPRESSOR WATER TUBE	12. 4095
CAM, FUEL MODULATING	2. 9085	CLIP, AIR HEATER INLET AND OUTLET TUBE	7. 8320
CAM, HYDRAULIC STARTER HAND PUMP	12. 6643	CLIP, AIR INLET HOUSING SHUTDOWN CONTROL WIRE	3. 3270
CAM, NEUTRAL	9. 1157	CLIP, BREATHER TUBE	4. 8040
CAM, OVERSPEED VALVE ADJUSTING	7. 4740	CLIP, CYLINDER HEAD INLET	2. 5180
CAM, RAW WATER PUMP BODY OFFSET	5. 6035	CLIP, DIPSTICK	4. 6040
CAMSHAFT AND GEAR TRAIN	1. 7000	CLIP, DIPSTICK TORQUE CONVERTER	8. 3842
CAMSHAFT ASSY.	1. 7001	CLIP, EXPANSION TANK OVERFLOW TUBE	5. 5200
CAP AND SPACER, FAN HUB	5. 4180	CLIP, FILTER OUTLET TUBE	2. 5156
CAP, CRANKSHAFT MAIN BEARING	1. 3110	CLIP, FILTER TO FUEL MANIFOLD TUBE	2. 5155
CAP, EXHAUST PIPE	6. 2093	CLIP, FUEL COOLER INLET LINES	2. 5216
CAP, EXHAUST VALVE SPRING	1. 8350	CLIP, FUEL DRAIN	2. 5220
CAP, EXPANSION TANK	5. 5140	CLIP, FUEL DRAIN CROSSOVER	2. 5207
CAP, FUEL TANK	2. 6030	CLIP, FUEL PUMP DRAIN TUBE	2. 2320
CAP, GOVERNOR LOW SPEED SPRING	2. 7580	CLIP, FUEL PUMP TO FILTER HOSE	2. 5120
CAP, GOVERNOR SPEED ADJUSTING SHAFT SPACER	2. 8365	CLIP, FUEL SUPPLY CROSSOVER TUBE	2. 5164
CAP, GOVERNOR WEIGHT HOUSING	2. 7510	CLIP, FUEL SUPPLY TO STRAINER	2. 5020
CAP, HYDRAULIC STARTER ACCUMULATOR	12. 6573	CLIP, FUEL SYSTEM FLEXIBLE HOSE	12. 8554
CAP, HYDRAULIC STARTER RESERVOIR	12. 6555	CLIP, GOVERNOR CONTROL WIRE TUBE	2. 9428
CAP, INJECTOR FILTER	2. 1130	CLIP, GOVERNOR THROTTLE LEVER RETURN SPRING	2. 7912
CAP, INJECTOR SHIPPING	2. 1150	CLIP, HEAT EXCHANGER RAW WATER INLET TUBE	5. 5390
CAP, OIL FILLER	4. 5010	CLIP, OIL COOLER LINES	4. 4345
CAP, OVERSPEED TRIP GOVERNOR SPRING	7. 4653	CLIP, OIL COOLER TO CONVERTER TUBE	8. 3819
CAP, RADIATOR FILLER	5. 3120	CLIP, OIL FILTER LINE	4. 3045
CAP, REDUCTION GEAR OIL FILLER	9. 1415	CLIP, OIL PAN DRAIN TUBE	4. 7101
CAP, STARTING AID TANK PRESSURE	12. 6360	CLIP, OIL PRESSURE GAGE TUBE	7. 4076
CARRIER, FLYWHEEL PILOT BEARING	1. 4055	CLIP, SHUTDOWN RESET LEVER ROD	3. 3127
CARRIER, GOVERNOR WEIGHT SHAFT	2. 7370	CLIP, SOLENOID VALVE TUBE	2. 7928
CARTON ENGINE PART	12. 8050	CLIP, STRAINER TO FUEL PUMP	2. 5070
CASING, FLEXIBLE SHAFT	12. 8502	CLIP, TRANSMISSION	2. 9950
CATCH, ENGINE HOOD HOLD DOWN CLAMP	10. 1050	CLIP, TRANSMISSION CABLE MT	2. 9950
CATCH, ENGINE HOOD SIDE PANEL	10. 1057	CLIP, TURBOCHARGER OIL RETURN TUBE	3. 5507
CHAIN, OIL FILLER CAP	4. 5030	CLIP, TURBOCHARGER OIL SUPPLY TUBE	3. 5502
CLAMP, AIR COMPRESSOR WATER TUBE HOSE	12. 4097	CLIP, WATER BYPASS TUBE	5. 2190
CLAMP, AIR INLET PIPE HOSE	3. 1280	CLIP, WIRING HARNESS	7. 7010
CLAMP, AIR SILENCER OUTLET ELBOW HOSE	3. 2024	CLUTCH ASSY.	8. 1017
CLAMP, AMMETER	7. 4020	CLUTCH, HYDRAULIC STARTER DRIVE	12. 6506
CLAMP, BLOWER DRIVE COVER PACKING	3. 4227	COIL ASSY., AIR HEATER	7. 8080
CLAMP, BLOWER DRIVE COVER SEAL	3. 4227	COLD WEATHER STARTING AID KIT	12. 6301
CLAMP, BLOWER VALVE (MINI-BYPASS)	3. 4146	COLLAR, CLUTCH RELEASE	8. 1295
CLAMP, BREATHER EXTENSION PIPE HOSE	4. 8180	COLLAR, GOVERNOR DRIVE SHAFT	2. 8620
CLAMP, EXHAUST MANIFOLD FRESH WATER INLET HOSE	5. 3434	COLLAR, THROTTLE CONTROL CROSS SHAFT	2. 9330
CLAMP, EXHAUST MANIFOLD FRESH WATER OUTLET HOSE	5. 3445	COLLAR, TURBOCHARGER ROTOR THRUST	3. 5034
CLAMP, FUEL PRESSURE GAGE	7. 4093	COMPRESSOR ASSY., AIR	12. 4001
CLAMP, HEAT EXCHANGER FRESH WATER INLET HOSE	5. 3305	CONE, CRANKSHAFT PULLEY	1. 3295

ALPHABETICAL INDEX

PART NAME	GROUP NO.	PART NAME	GROUP NO.
C		C	
CONE, POWER TAKE-OFF ADAPTOR	8. 1907	COVER, ENGINE FRONT-LOWER	1. 3162
CONE, RAW WATER PUMP CLUTCH	5. 6600	COVER, ENGINE FRONT-LOWER	4. 1218
CONE, VIBRATION DAMPER-FRONT	1. 3240	COVER, ENGINE FRONT-UPPER	1. 3161
CONE, VIBRATION DAMPER-REAR	1. 3250	COVER, FAST IDLE AIR CYLINDER	2. 7855
CONNECTING ROD AND PISTON	1. 6000	COVER, FLYWHEEL HOUSING INSPECTION HOLE	1. 5080
CONNECTING ROD ASSY.	1. 6001	COVER, FLYWHEEL HOUSING LARGE HOLE	1. 5030
CONNECTION, EXPANSION TANK INLET	5. 3313	COVER, FLYWHEEL HOUSING SMALL HOLE	1. 5050
CONNECTION, FLEXIBLE EXHAUST	6. 2095	COVER, FRESH WATER PUMP BODY	5. 1031
CONNECTION, HEAT EXCHANGER INLET	5. 3314	COVER, FUEL FILTER	2. 3390
CONNECTION, HEAT EXCHANGER WATER OUTLET	5. 3312	COVER, FUEL PUMP	2. 2030
CONNECTION, OIL COOLER WATER INLET	4. 4211	COVER, FUEL STRAINER	2. 3080
CONNECTION, OIL COOLER WATER INLET	5. 3350	COVER, GOVERNOR	2. 8040
CONNECTION, RADIATOR INLET	5. 3270	COVER, GOVERNOR BREATHER HOLE	2. 7005
CONNECTION, RADIATOR OUTLET	5. 3310	COVER, GOVERNOR FUEL ROD SPRING	2. 8085
CONNECTION, RAW WATER PUMP INLET AT		COVER, GOVERNOR HIGH SPEED SPRING	2. 7630
GEAR BOX	5. 6500	COVER, GOVERNOR VARIABLE SPEED SPRING	
CONNECTION, TACHOMETER SHAFT	8. 3475	HOUSING	2. 7692
CONNECTION, THERMOSTAT HOUSING WATER		COVER, GOVERNOR WEIGHT HOUSING	2. 7520
OUTLET	5. 3275	COVER, HEAT EXCHANGER	5. 5030
CONNECTIONS, TURBOCHARGER EXHAUST INLET	3. 5305	COVER, HEAT EXCHANGER TANK OUTLET	5. 3333
CONNECTOR, EXHAUST MANIFOLD FRESH		COVER, HYDRAULIC STARTER END	12. 6543
WATER INLET	5. 3430	COVER, INJECTOR CONTROL AIR CYLINDER	2. 9092
CONNECTOR, FUEL PIPE	2. 4030	COVER, INSTRUMENT PANEL	7. 4012
CONNECTOR, TURBOCHARGER EXHAUST INLET	3. 5305	COVER, MASTER CYLINDER RESERVOIR	12. 6812
CONTAINER, INJECTOR SHIPPING	2. 1010	COVER, OIL COOLER HOUSING	4. 4060
CONTROL, VERNIER THROTTLE	2. 9133	COVER, OIL FILTER	4. 2290
CONVERSION KIT, MARINE GEAR	9. 1017	COVER, OIL PAN	4. 7120
CONVERSION KIT, MARINE GEAR DRIVE RUBBER		COVER, OIL PUMP	4. 1220
BLOCK	9. 1016	COVER, OUTPUT SHAFT BEARING	9. 1099
CONVERTER ASSY., TORQUE	8. 3001	COVER, OVERSPEED TRIP GOVERNOR HOUSING	7. 4630
COOLER ASSY., FUEL	2. 5212	COVER, OVERSPEED VALVE	7. 4729
CORE ASSY., OIL COOLER	4. 4001	COVER, RADIATOR FILLER CAP	5. 3151
CORE, HEAT EXCHANGER	5. 5003	COVER, RAW WATER PUMP	5. 6090
CORE, OIL COOLER-ENGINE	4. 4001	COVER, REDUCTION GEAR BEARING	9. 1365
COUPLING ASSY., POWER TAKE-OFF	8. 1910	COVER, SELECTOR VALVE	9. 1178
COUPLING, ACCESSORY DRIVE	1. 7635	COVER, TACHOMETER DRIVE	7. 4445
COUPLING, AIR COMPRESSOR DRIVE	12. 4050	COVER, THERMOSTAT HOUSING	5. 2120
COUPLING, BLOWER DRIVE	3. 4370	COVER, TRANSMISSION CABLE BRACKET MT	2. 9970
COUPLING, ENGINE DRIVE SHAFT FLEXIBLE	1. 4060	COVER, VERNIER THROTTLE CONTROL	2. 9149
COUPLING, FUEL PUMP DRIVE	2. 2230	COVER, WATER FILTER	5. 7034
COUPLING, GENERATOR DRIVE	7. 1560	CRANKSHAFT	1. 3000
COUPLING, GENERATOR DRIVE-INNER	7. 1560	CRANKSHAFT ASSY.	1. 3001
COUPLING, HYDRAULIC PUMP DRIVE	12. 5010	CRANKSHAFT FRONT COVER	1. 3000A
COUPLING, MARINE GEAR DRIVE	9. 1006	CRANKSHAFT PULLEY	1. 3000C
COUPLING, PROPELLER DRIVE SHAFT	9. 1440	CRANKSHAFT PULLEY BELT	1. 3000D
COUPLING, RAW WATER PUMP DRIVE	5. 6420	CRANKSHAFT, FRONT SUPPORT ASSY.	1. 3164
COUPLING, THROTTLE CONTROL SHAFT	2. 9190	CRANKSHAFT, FRONT SUPPORT BEARING	1. 3165
COVER ASSY., DRIVE	1. 7700	CRANKSHAFT, FRONT SUPPORT SEAL RING	1. 3163
COVER ASSY., GOVERNOR-COMplete	2. 7045	CUP, AIR CLEANER	3. 1010
COVER ASSY., GOVERNOR-LESS SHAFT AND		CUP, BILGE PUMP GREASE	12. 2130
LEVERS	2. 7050	CUSHION, ENGINE MOUNTING BASE ISOLATION	
COVER ASSY., ROCKER	1. 8450	PAD	11. 1010
COVER, AIR CLEANER	3. 1020	CUTOUT ASSY., GENERATOR VOLTAGE	
COVER, AIR SHUTDOWN HOUSING	3. 4418	REGULATOR	7. 1607
COVER, AIR SHUTOFF CONTROL HOUSING	7. 4553	CYLINDER ASSY., FAST IDLE AIR	2. 7850
COVER, BALANCE WEIGHT	1. 7470	CYLINDER ASSY., MASTER REMOTE CONTROL	12. 6808
COVER, BLOWER HOUSING END PLATE	3. 4180	CYLINDER ASSY., THROTTLE CONTROL AIR	2. 9860
COVER, BREATHER HOLE-IN BLOCK	4. 8195	CYLINDER BLOCK	1. 1000
COVER, CLUTCH HOUSING INSPECTION HOLE	8. 1060	CYLINDER HEAD	1. 2000
COVER, CLUTCH RELEASE YOKE LUBRICATION	8. 1318	CYLINDER KIT	1. 6182
COVER, CRANKSHAFT FRONT	1. 3160	CYLINDER, FORWARD CLUTCH PISTON	9. 1223
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		
		D	
		DAMPER, VIBRATION	1. 3210
		DEFLECTOR, INJECTOR SPILL	2. 1050
		DEFLECTOR, ROTOR ASSY. SHAFT OIL	3. 5029

ALPHABETICAL INDEX

PART NAME	GROUP NO.	PART NAME	GROUP NO.
D		F	
DIAPHRAM, GOVERNOR WEIGHT SHAFT	2. 7502	FLANGE, EXHAUST	6. 2085
DIAPHRAM, OVERSPEED VALVE PISTON	7. 4733	FLANGE, EXHAUST MANIFOLD WATER OUTLET	5. 3460
DIAPSTICK	4. 6000A	FLANGE, MARINE GEAR DRIVE	9. 1004
DIAPSTICK	4. 6001	FLANGE, OIL COOLER WATER OUTLET	4. 4242
DIAPSTICK, REDUCTION GEAR	9. 1395	FLANGE, PROPELLER DRIVE	9. 1430
DIAPSTICK, TORQUE CONVERTER	8. 3840	FLYWHEEL	1. 4000A
DISC ASSY., CLUTCH	8. 1020	FLYWHEEL ASSY.	1. 4001
DISC, FLYWHEEL FLEXIBLE COUPLING	1. 4075	FLYWHEEL CASTING	12. 8565
DISC, FUEL PUMP DRIVE	2. 2228	FOLLOWER ASSY., CAM	1. 8260
RAINCOCK, FUEL FILTER	2. 3500	FOLLOWER, INJECTOR	2. 1060
DRIVE ASSY., GENERATOR	7. 1507	FORK, CLUTCH RELEASE	8. 1280
DRIVE ASSY., GOVERNOR	2. 8750	FORK, FUEL PUMP COUPLING	2. 2220
DRIVE GEAR AND SHAFT ASSY., TACHOMETER		FORK, GOVERNOR OPERATING	8. 3430
DRIVE CABLE ADAPTOR	7. 4423	FORK, GOVERNOR OPERATING SHAFT-LOWER	2. 7290
DRIVE UNIT, TACHOMETER	7. 4062	FORK, GOVERNOR SPEED ADJUSTING LINKAGE	
DRIVE, HYDRAULIC STARTER ENGINE PUMP	12. 6594	SPRING	2. 8435
DRIVEN GEAR AND SHAFT ASSY., TACHOMETER		FORK, HYDRAULIC STARTER CLUTCH	12. 6509
DRIVE CABLE ADAPTOR	7. 4425	FUEL FILTER	2. 3000A
E		FUEL MANIFOLD	2. 4000
ELBOW, OIL COOLER WATER-INLET	5. 3418	FUEL PUMP	2. 2000
ELBOW, OIL COOLER WATER-OUTLET	5. 3420	G	
ELBOW, THERMOSTAT HOUSING COVER OUTLET	5. 2122	GAGE, OIL TEMPERATURE	7. 4077
ELBOW, THERMOSTAT HOUSING OUTLET	5. 2092	GAGE, AIR HEATER PRESSURE	7. 8342
ELBOW, TURBOCHARGER AIR OUTLET	3. 5417	GAGE, FUEL PRESSURE	7. 4091
ELBOW, WATER OUTLET MANIFOLD	5. 2035	GAGE, HYDRAULIC STARTER PRESSURE	12. 6585
ELBOW, WATER PUMP INLET	5. 3335	GAGE, OIL PRESSURE-ENGINE	7. 4070
ELECTRICAL	7. 1000	GAGE, OIL PRESSURE-REVERSE GEAR OR TORQUE	
ELECTRODE, AIR HEATER	7. 8120	CONVERTER	7. 4071
ELECTRODE, HEAT EXCHANGER	5. 5010	GAGE, WATER TEMPERATURE	7. 4080
ELEMENT, AIR CLEANER	3. 1050	GASKET	9. 1148
ELEMENT, AIR SILENCER	3. 2002	GASKET BREATHER TUBE	4. 8020
ELEMENT, CONVERTER OIL FILTER	8. 3872	GASKET KIT, CYLINDER HEAD OVERHAUL	1. 2002
ELEMENT, DRAIN TANK	1. 1180	GASKET KIT, ENGINE OVERHAUL	1. 1002
ELEMENT, FUEL FILTER	2. 3320	GASKET SET, BILGE PUMP BODY	12. 2030
ELEMENT, FUEL STRAINER	2. 3010	GASKET, ACCESSORY DRIVE	1. 7604
ELEMENT, HYDRAULIC STARTER FILTER	12. 6805	GASKET, ACCESSORY DRIVE ADAPTOR	1. 7623
ELEMENT, INJECTOR FILTER	2. 1110	GASKET, AIR BOOSTER INLET TUBE AND ELBOW	
ELEMENT, OIL FILTER	2. 8986	TO AIR COMPRESSOR	12. 4380
ELEMENT, OIL FILTER	4. 2250	GASKET, AIR CLEANER BOTTOM	3. 1060
ELEMENT, WATER FILTER	5. 7020	GASKET, AIR CLEANER COVER	3. 1025
EXHAUST MANIFOLD	6. 1000A	GASKET, AIR CLEANER MOUNTING ADAPTOR	3. 1087
TENSION, BREATHER TUBE	4. 8010	GASKET, AIR CLEANER SCREEN	3. 1055
E, THROTTLE BOOSTER ADJUSTING	2. 7982	GASKET, AIR COMPRESSOR ADAPTOR	12. 4025
E, THROTTLE BOOSTER ADJUSTING	2. 9348	GASKET, AIR COMPRESSOR BOOSTER TUBE	12. 4380
F		GASKET, AIR COMPRESSOR MOUNTING	12. 4005
FING, CLUTCH	8. 1030	GASKET, AIR CYLINDER COVER	2. 9093
FING, GENERATOR	7. 1440	GASKET, AIR HEATER	7. 8020
FING, RULE AND NUT, FLEXIBLE SHAFT CASING	12. 8514	GASKET, AIR HEATER INSULATOR	7. 8140
FINGER TUBE	4. 5000A	GASKET, AIR INLET HOUSING	3. 3010
FINGER ASSY., CONVERTER OIL	8. 3870	GASKET, AIR INLET HOUSING FLANGE	3. 3007
FINGER ASSY., FUEL	2. 3310	GASKET, AIR SILENCER	3. 2012
FINGER ASSY., HYDRAULIC STARTER	12. 6801	GASKET, BALANCE WEIGHT COVER	1. 7480
FINGER ASSY., OIL	4. 2240	GASKET, BLOWER	3. 4010
FINGER ASSY., OIL-FULL FLOW	2. 8985	GASKET, BLOWER DRIVE GEAR HUB SUPPORT	3. 4360
FINGER ASSY., WATER	5. 7001	GASKET, BLOWER HOUSING END PLATE COVER	3. 4190
FINGER KIT, CONVERSION	2. 1132	GASKET, BREATHER BODY OR SEPARATOR	4. 8070
FINGER UNIT, BREATHER	4. 8060	GASKET, BREATHER SHELL COVER	4. 8057
FINGER, AIR HEATER	7. 8060	GASKET, CLUTCH HOUSING INSPECTION HOLE	
FINGER, HYDRAULIC STARTER RESERVOIR	12. 6558	COVER	8. 1070
FINGER, AUXILIARY PUMP AND TANK	2. 5004	GASKET, CONVERTER OIL FILTER SHELL	8. 3875
FINGER, CLUTCH DRIVE SHAFT BEARING GREASE	8. 1685	GASKET, CRANKSHAFT FRONT COVER	1. 3170
FINGER, CLUTCH PILOT BEARING GREASE	8. 1455	GASKET, CRANKSHAFT FRONT COVER	4. 1229
FINGER, FUEL SYSTEM FLEXIBLE HOSE END	12. 8552	GASKET, CRANKSHAFT FRONT COVER PLATE	1. 3172
		GASKET, CYLINDER BLOCK END PLATE-FRONT	1. 1030
		GASKET, CYLINDER BLOCK HAND HOLE COVER	1. 1050

ALPHABETICAL INDEX

PART NAME	GROUP NO.	PART NAME	GROUP
G		G	
GASKET, CYLINDER BLOCK OIL HOLE COVER	1. 1066	GASKET, HEAT EXCHANGER TANK OUTLET CONNECTION	5. 3325
GASKET, CYLINDER BLOCK WATER HOLE COVER	1. 1070	GASKET, HEAT EXCHANGER WATER OUTLET TUBE	5. 5570
GASKET, CYLINDER HEAD COMPRESSION	1. 2010	GASKET, HYDRAULIC MARINE GEAR OIL PUMP	9. 1480
GASKET, CYLINDER HEAD WATER AND OIL	1. 2022	GASKET, HYDRAULIC MARINE GEAR OIL PUMP ADAPTOR	9. 1478
GASKET, CYLINDER HEAD WATER HOLE COVER	1. 2044	GASKET, HYDRAULIC PUMP	12. 5005
GASKET, DIPSTICK	4. 6010	GASKET, HYDRAULIC PUMP ADAPTOR	12. 5021
GASKET, DRIVE TO GOVERNOR	2. 8760	GASKET, HYDRAULIC STARTER	12. 6502
GASKET, EXHAUST MANIFOLD	6. 1010	GASKET, HYDRAULIC STARTER ENGINE PUMP BODY	12. 6598
GASKET, EXHAUST MANIFOLD COVER PLATE	6. 1110	GASKET, HYDRAULIC STARTER MOTOR HOUSING	12. 6530
GASKET, EXHAUST MANIFOLD FRESH WATER INLET	5. 3431	GASKET, INJECTOR FILTER CAP	2. 1140
GASKET, EXHAUST MANIFOLD WATER OUTLET	5. 3461	GASKET, LOWER OIL PAN	4. 7040
GASKET, EXHAUST OUTLET	6. 2105	GASKET, MARINE GEAR HOUSING	9. 1008
GASKET, EXPANSION TANK FILLER NECK	5. 5130	GASKET, MARINE GEAR HOUSING-REAR	9. 1102
GASKET, EXPANSION TANK INLET CONNECTION	5. 3322	GASKET, MASTER CYLINDER RESERVOIR COVER	12. 6811
GASKET, FLANGE MOUNTED ALTERNATOR ADAPTOR	7. 1589	GASKET, OIL COOLER ADAPTOR	4. 4111
GASKET, FLYWHEEL HOUSING	1. 5010	GASKET, OIL COOLER ADAPTOR TO BLOCK	4. 4111
GASKET, FLYWHEEL HOUSING BELL	1. 5020	GASKET, OIL COOLER BYPASS VALVE PLUG	4. 4170
GASKET, FLYWHEEL HOUSING LARGE HOLE COVER	1. 5040	GASKET, OIL COOLER CORE INNER	4. 4030
GASKET, FLYWHEEL HOUSING SMALL HOLE COVER	1. 5060	GASKET, OIL COOLER CORE OUTER	4. 4040
GASKET, FRESH WATER PUMP	5. 1010	GASKET, OIL COOLER CORE-INNER	4. 4030
GASKET, FRESH WATER PUMP ADAPTOR	5. 1006	GASKET, OIL COOLER CORE-OUTER	4. 4040
GASKET, FRESH WATER PUMP BODY COVER	5. 1032	GASKET, OIL COOLER HOUSING	4. 4051
GASKET, FUEL FILTER COVER SCREW	2. 3420	GASKET, OIL COOLER HOUSING (TO BLOCK)	4. 4051
GASKET, FUEL FILTER COVER SHELL	2. 3400	GASKET, OIL COOLER HOUSING COVER	4. 4061
GASKET, FUEL FILTER MOUNTING BRACKET	2. 3570	GASKET, OIL COOLER WATER INLET CONNECTION	4. 4211
GASKET, FUEL PUMP MOUNTING PLATE	2. 2237	GASKET, OIL COOLER WATER INLET CONNECTION	5. 3360
GASKET, FUEL PUMP TO ENGINE	2. 2007	GASKET, OIL COOLER WATER OUTLET ELBOW	5. 3421
GASKET, FUEL PUMP VALVE PLUG	2. 2180	GASKET, OIL COOLER WATER OUTLET FLANGE	4. 4241
GASKET, FUEL STRAINER COVER	2. 3090	GASKET, OIL FILLER TUBE	4. 5050
GASKET, FUEL STRAINER COVER SCREW	2. 3130	GASKET, OIL FILTER ADAPTOR	4. 2350
GASKET, FUEL STRAINER MOUNTING BRACKET	2. 3270	GASKET, OIL FILTER ADAPTOR TO OIL COOLER ADAPTOR	4. 2290
GASKET, FUEL TANK CAP	2. 6035	GASKET, OIL FILTER BYPASS PLUG	4. 2481
GASKET, GENERATOR DRIVE	7. 1508	GASKET, OIL FILTER BYPASS VALVE HOUSING	4. 2381
GASKET, GENERATOR DRIVE BEARING AND OIL SEAL RETAINER	7. 1525	GASKET, OIL FILTER BYPASS VALVE PLUG	8. 3890
GASKET, GOVERNOR BODY TO BASE	8. 3390	GASKET, OIL FILTER COVER	4. 2301
GASKET, GOVERNOR BREATHER HOLE COVER	2. 7006	GASKET, OIL FILTER COVER NUT	4. 2331
GASKET, GOVERNOR CONTROL HOUSING MOUNTING	2. 7232	GASKET, OIL FILTER ELEMENT	2. 8981
GASKET, GOVERNOR COVER	2. 7051	GASKET, OIL FILTER TUBE ADAPTOR	4. 3021
GASKET, GOVERNOR COVER	2. 8045	GASKET, OIL FILTER TUBE ADAPTOR REMOTE MOUNTED FILTER	4. 3021
GASKET, GOVERNOR FUEL ROD SPRING COVER	2. 8086	GASKET, OIL PAN COVER	4. 7131
GASKET, GOVERNOR HIGH SPEED SPRING COVER	2. 7850	GASKET, OIL PAN DRAIN PLUG	4. 7091
GASKET, GOVERNOR HOUSING DUMMY HOLE PLUG	2. 8210	GASKET, OIL PAN TO BLOCK	4. 7031
GASKET, GOVERNOR RELIEF VALVE	2. 8640	GASKET, OIL PRESSURE REGULATOR PLUG	4. 1721
GASKET, GOVERNOR SPEED ADJUSTING SHAFT	2. 8363	GASKET, OIL PUMP COVER	4. 1231
GASKET, GOVERNOR SPEED ADJUSTING SHAFT SPACER CAP	2. 8367	GASKET, OIL PUMP INLET PIPE	4. 1521
GASKET, GOVERNOR TO BLOWER	2. 8035	GASKET, OIL PUMP OUTLET PIPE	4. 1591
GASKET, GOVERNOR TO BLOWER-GOVERNOR DRIVE	2. 7010	GASKET, OIL PUMP RELIEF VALVE	4. 1281
GASKET, GOVERNOR VARIABLE SPEED SPRING HOUSING	2. 7700	GASKET, OIL PUMP TO CYLINDER BLOCK	4. 1001
GASKET, GOVERNOR WEIGHT HOUSING CAP	2. 7515	GASKET, OVERSPEED TRIP GOVERNOR ADAPTOR	7. 4631
GASKET, GOVERNOR WEIGHT HOUSING COVER	2. 7530	GASKET, RADIATOR FILLER CAP	5. 3131
GASKET, HEAT EXCHANGER COVER	5. 5050	GASKET, RAW WATER PUMP	5. 6351
GASKET, HEAT EXCHANGER MOUNTING BRACKET	5. 5080	GASKET, RAW WATER PUMP ADAPTOR	5. 6011
GASKET, HEAT EXCHANGER RAW WATER INLET TUBE	5. 5460	GASKET, RAW WATER PUMP COVER	5. 6101
GASKET, HEAT EXCHANGER TANK INLET CONNECTION	5. 3323	GASKET, RAW WATER PUMP FLANGE	5. 5411
		GASKET, RAW WATER PUMP INLET CONNECTION	5. 6511
		GASKET, REDUCTION GEAR ADAPTOR	9. 1281
		GASKET, REDUCTION GEAR BEARING COVER	9. 1371
		GASKET, REDUCTION GEAR DIPSTICK	9. 1401
		GASKET, REDUCTION GEAR HOUSING	9. 1281

ALPHABETICAL INDEX

PART NAME	GROUP NO.	PART NAME	GROUP NO.
G		G	
GASKET, ROCKER COVER	1. 8455	GENERATOR, TACHOMETER ELECTRICAL	7. 4470
GASKET, SELECTOR VALVE COVER	9. 1179	GLAND, BILGE PUMP SHAFT PACKING	12. 2070
GASKET, SELECTOR VALVE PRESSURE REGULATOR	9. 1191	GLAND, HEAT EXCHANGER SEAL RETAINER	5. 5027
GASKET, STARTING FLUID STRAINER ASSY.	12. 6390	GOVERNOR ASSY.	2. 7001
GASKET, STARTING MOTOR	7. 3004	GOVERNOR ASSY.	2. 8030
GASKET, STARTING MOTOR HOLE COVER	1. 5075	GOVERNOR KIT, AIR COMPRESSOR	12. 4305
GASKET, TACHOMETER DRIVE CABLE ADAPTOR	7. 4421	GOVERNOR, AIR COMPRESSOR	12. 4305
GASKET, TACHOMETER DRIVE COVER ADAPTOR	7. 4455	GOVERNOR, OVERSPEED TRIP	7. 4611
GASKET, THERMOSTAT HOUSING	5. 2110	GOVERNOR, TORQUE CONVERTER OUTPUT SHAFT	8. 3077
GASKET, THERMOSTAT HOUSING COVER	5. 2130	GUARD, FAN	5. 4580
GASKET, THERMOSTAT HOUSING WATER OUTLET CONNECTION	5. 3281	GUARD, FLANGE MOUNTED ALTERNATOR FAN	7. 1586
GASKET, THROTTLE CONTROL CROSS SHAFT BRACKET TO HEAD	2. 9306	GUARD, FLANGED MOUNTED ALTERNATOR FAN	7. 1586
GASKET, TURBOCHARGER AIR OUTLET ELBOW	3. 5418	GUARD, FRESH WATER PUMP DRIVE BELT	5. 1218
GASKET, TURBOCHARGER EXHAUST INLET CONNECTION	3. 5307	GUARD, GENERATOR DRIVE BELT AND PULLEY	7. 1585
GASKET, TURBOCHARGER EXHAUST OUTLET	3. 5325	GUARD, HYDRAULIC STARTER ENGINE PUMP BELT	12. 6672
GASKET, VACUUM PUMP	12. 3005	GUIDE ASSY., OVERSPEED VALVE PISTON	7. 4735
GASKET, WATER BYPASS TUBE-UPPER	5. 2170	GUIDE, CAM FOLLOWER	1. 8300
GASKET, WATER FILTER COVER	5. 7035	GUIDE, DIPSTICK	4. 6020
GASKET, WATER FILTER MOUNTING BRACKET	5. 7081	GUIDE, EXHAUST VALVE	1. 8320
GASKET, WATER FLANGE AT GEAR AND/OR RAW WATER PUMP	5. 5378	GUIDE, GOVERNOR SPRING	2. 7620
GASKET, WATER OUTLET MANIFOLD ELBOW	5. 2037	GUIDE, GOVERNOR VARIABLE SPEED SPRING PLUNGER	2. 7780
GASKET, WATER PUMP INLET AND OUTLET ELBOW	5. 3337	GUIDE, REDUCTION GEAR DIPSTICK	9. 1400
GASKET, WATER TEMPERATURE SWITCH	7. 4510	H	
GEAR AND SHAFT ASSY., GOVERNOR DRIVE	2. 8815	HANDLE, HYDRAULIC STARTER CONTROL SHAFT	12. 6514
GEAR ASSY., CLUTCH HUB TWIN DISC	9. 1036	HANDLE, HYDRAULIC STARTER HAND PUMP	12. 6646
GEAR ASSY., HYDRAULIC MARINE	9. 1001	HANDLE, RAW WATER PUMP CLUTCH	5. 6640
GEAR ASSY., IDLER	1. 7220	HANGER, THROTTLE BOOSTER SPRING	2. 9349
GEAR ASSY., PLANETARY	9. 1080	HARNES, AIR HEATER WIRING	7. 8095
GEAR ASSY., REDUCTION GEAR PLANETARY	9. 1292	HARNES, AIR SHUTOFF WIRING	7. 4545
GEAR REDUCTION	9. 1310	HARNES, ENGINE WIRING	7. 7001
GEAR SET, BLOWER ROTOR	3. 4080	HEAD ASSY., CYLINDER	1. 2001
GEAR, ACCESSORY DRIVE	1. 7670	HEATER ASSY., AIR	7. 8001
GEAR, BLOWER DRIVE	3. 4300	HOOD ASSY., ENGINE	10. 1001
GEAR, CAMSHAFT AND BALANCE SHAFT	1. 7200	HOSE, AIR INLET PIPE	3. 1270
GEAR, CRANKSHAFT TIMING	1. 3145	HOSE, AIR SILENCER OUTLET ELBOW	3. 2023
GEAR, FLYWHEEL RING	1. 4010	HOSE, BREATHER EXTENSION	4. 8175
GEAR, FORWARD CLUTCH TWIN DISC	9. 1028	HOSE, CLUTCH RELEASE BEARING	8. 1320
GEAR, FUEL PUMP DRIVE	2. 2087	HOSE, EXHAUST MANIFOLD FRESH WATER INLET	5. 3432
GEAR, FUEL PUMP DRIVE	2. 2290	HOSE, FILTER TO CYLINDER HEAD	2. 5160
GEAR, FUEL PUMP DRIVEN	2. 2088	HOSE, FLYWHEEL HOUSING DRAIN	1. 5096
GEAR, GOVERNOR DRIVE	2. 7960	HOSE, FRESH WATER OUTLET	5. 3446
GEAR, GOVERNOR DRIVE	2. 8855	HOSE, FUEL DRAIN	2. 5215
GEAR, GOVERNOR DRIVEN SHAFT	2. 8805	HOSE, FUEL DRAIN CROSSEVER	2. 5206
GEAR, GOVERNOR OIL PUMP DRIVE	2. 8720	HOSE, FUEL PUMP INLET	2. 5060
GEAR, GOVERNOR OIL PUMP DRIVEN	2. 8730	HOSE, FUEL PUMP OUTLET TO FILTER	2. 5110
GEAR, HYDRAULIC PUMP DRIVE	12. 5030	HOSE, FUEL PUMP TO FILTER	2. 5110
GEAR, IDLER	1. 7222	HOSE, FUEL SUPPLY TO STRAINER	2. 5010
GEAR, INJECTOR	2. 1180	HOSE, FUEL SYSTEM FLEXIBLE (BULK)	12. 8550
GEAR, MARINE GEAR PLANETARY RING	9. 1091	HOSE, FUEL TANK	2. 6005
GEAR, OIL PUMP DRIVE	4. 1090	HOSE, HEAT EXCHANGER AUXILIARY TANK	5. 5195
GEAR, OIL PUMP DRIVE-ON CRANKSHAFT	4. 1310	HOSE, HEAT EXCHANGER FRESH WATER INLET	5. 3295
GEAR, OIL PUMP DRIVE-ON PUMP	4. 1380	HOSE, HEAT EXCHANGER OUTLET CONNECTION TO WATER PUMP	5. 3334
GEAR, OIL PUMP DRIVEN	4. 1200	HOSE, HEAT EXCHANGER RAW WATER INLET TUBE	5. 5470
GEAR, RAW WATER PUMP DRIVE	5. 6320	HOSE, HEAT EXCHANGER WATER OUTLET TUBE	5. 5580
GEAR, REDUCTION GEAR	9. 1290	HOSE, HYDRAULIC STARTER	12. 6827
GEAR, REDUCTION GEAR INPUT	9. 1287	HOSE, HYDRAULIC STARTER ENGINE PUMP TO ACCUMULATOR	12. 6850
GEAR, REDUCTION GEAR PLANETARY RING	9. 1298	HOSE, HYDRAULIC STARTER FILTER TO ENGINE PUMP	12. 6840
GEAR, REVERSE CLUTCH TWIN DISC	9. 1029		
GEAR, VERNIER THROTTLE CONTROL WORM	2. 9141		
GENERATOR ASSY.	7. 1001		
GENERATOR ASSY., POWER	7. 5001		

ALPHABETICAL INDEX

PART NAME	GROUP NO.	PART NAME	GROUP NO.
H		H	
HOSE, HYDRAULIC STARTER FILTER TO HAND PUMP	12. 6845	HOUSING, OVERSPEED VALVE	7. 472
HOSE, HYDRAULIC STARTER FLEXIBLE (BULK)	12. 8520	HOUSING, POWER TAKE-OFF ADAPTOR	8. 190
HOSE, HYDRAULIC STARTER FUEL PRIMER	12. 6950	HOUSING, RAW WATER PUMP DRIVE	5. 601
HOSE, HYDRAULIC STARTER RELIEF VALVE	12. 6880	HOUSING, RAW WATER PUMP IMPELLER	5. 602
HOSE, HYDRAULIC STARTER RESERVOIR TO FILTER	12. 6830	HOUSING, REDUCTION GEAR	9. 128
HOSE, HYDRAULIC STARTER RESERVOIR TO HAND PUMP	12. 6832	HOUSING, SELECTOR VALVE	9. 113
HOSE, HYDRAULIC STARTER TO RESERVOIR	12. 6865	HOUSING, THERMOSTAT	5. 208
HOSE, MARINE GEAR OIL COOLER TO SELECTOR VALVE	4. 4343	HOUSING, TURBOCHARGER COMPRESSOR	3. 502
HOSE, MARINE GEAR OR TRANSMISSION OIL INLET	4. 4335	HOUSING, TURBOCHARGER TURBINE	3. 501
HOSE, MARINE GEAR OR TRANSMISSION OIL OUTLET	4. 4330	HOUSING, VERNIER THROTTLE CONTROL	2. 913
HOSE, MASTER CYLINDER TO REMOTE CONTROL VALVE	12. 6875	HUB ASSY., REVERSE CLUTCH	9. 108
HOSE, OIL COOLER WATER INLET	4. 4213	HUB, AIR COMPRESSOR	12. 404
HOSE, OIL COOLER WATER INLET CONNECTION	5. 3365	HUB, BLOWER DRIVE GEAR	3. 433
HOSE, OIL COOLER WATER OUTLET	5. 3422	HUB, BLOWER ROTOR GEAR	3. 413
HOSE, RADIATOR INLET	5. 3290	HUB, CRANKSHAFT PULLEY	1. 333
HOSE, RADIATOR OUTLET	5. 3330	HUB, DRIVE PULLEY	1. 767
HOSE, ROCKER COVER DRAIN	1. 1155	HUB, FAN	5. 422
HOSE, THERMOSTAT HOUSING COVER OUTLET ELBOW	5. 2124	HUB, FLANGE MOUNTED ALTERNATOR DRIVE	7. 153
HOSE, TURBOCHARGER AIR OUTLET CONNECTION	3. 5420	HUB, FLANGED MOUNTED ALTERNATOR DRIVE	7. 153
HOSE, WATER BYPASS TUBE	5. 2165	HUB, FORWARD CLUTCH	9. 128
HOSE, WATER FILTER INLET	5. 7090	HUB, FRESH WATER PUMP DRIVEN PULLEY	5. 123
HOSE, WATER FILTER OUTLET	5. 7100	HUB, FRONT POWER TAKE-OFF ADAPTOR	8. 190
HOSE, WATER PUMP INLET AND BYPASS TUBE	5. 3338	HUB, FUEL PUMP DRIVE GEAR	2. 223
HOUSING AND BUSHING ASSY., TACHOMETER DRIVE CABLE ADAPTOR	7. 4428	HUB, GENERATOR DRIVE PULLEY	7. 153
HOUSING ASSY., AIR INLET	3. 3001	HUB, IDLER GEAR	1. 723
HOUSING ASSY., FLYWHEEL	1. 5001	HUB, REDUCTION GEAR	9. 123
HOUSING ASSY., FLYWHEEL (TWIN AND QUAD)	1. 5001	HUB, VIBRATION DAMPER	1. 323
HOUSING ASSY., GOVERNOR	2. 8190	HYDRAULIC STARTER FITTING KIT	12. 683
HOUSING ASSY., GOVERNOR CONTROL	2. 7230		
HOUSING ASSY., GOVERNOR VARIABLE SPEED SPRING	2. 7680	I	
HOUSING ASSY., OVERSPEED TRIP GOVERNOR	7. 4614	IDLER PULLEY, FAN BELT	5. 433
HOUSING ASSY., REVERSE GEAR	9. 1010	IDLER, PULLEY FAN BELT WITH ADJUSTING ARM	5. 433
HOUSING ASSY., TURBOCHARGER INTERMEDIATE	3. 5018	IMPELLER AND SHAFT ASSY., BILGE PUMP	12. 203
HOUSING, ACCESSORY DRIVE	1. 7627	IMPELLER, FRESH WATER PUMP	5. 113
HOUSING, AIR INLET	3. 3003	IMPELLER, RAW WATER PUMP	5. 623
HOUSING, AIR SHUTDOWN	3. 4412	INDICATOR, AIR CLEANER RESTRICTION	3. 103
HOUSING, AIR SHUTOFF CONTROL	7. 4550	INJECTOR	2. 103
HOUSING, BILGE PUMP IMPELLER	12. 2050	INJECTOR ASSY.	2. 103
HOUSING, BLOWER	3. 4020	INJECTOR CONTROLS	2. 903
HOUSING, CLUTCH	8. 1010	INSERT, EXHAUST VALVE	1. 833
HOUSING, GOVERNOR DRIVE	2. 8780	INSULATION BLANKET, TURBOCHARGER	3. 553
HOUSING, GOVERNOR HIGH SPEED SPRING ADJUSTING SCREW	2. 7635	INSULATOR ASSY., CRANKSHAFT PULLEY HUB	1. 333
HOUSING, GOVERNOR VARIABLE SPEED SPRING	2. 7690	INSULATOR, AIR HEATER	7. 813
HOUSING, GOVERNOR WEIGHT	2. 7340	INSULATOR, POWER GENERATOR CONTROL CABINET TO SUPPORT	7. 603
HOUSING, HYDRAULIC STARTER CLUTCH	12. 6510	INSULATOR, TIME DELAY RELAY MOUNTING	7. 473
HOUSING, HYDRAULIC STARTER DRIVE	12. 6504	INTERCOOLER, TURBOCHARGER	3. 543
HOUSING, HYDRAULIC STARTER ENGINE PUMP BEARING	12. 6597	ISOLATOR, ROCKER COVER BOLT	1. 843
HOUSING, HYDRAULIC STARTER MOTOR	12. 6525		
HOUSING, MARINE GEAR DRIVE	9. 1003	K	
HOUSING, MARINE GEAR OIL COOLER	4. 4051	KIT, AIR HEATER CONVERSION	7. 803
HOUSING, OIL COOLER	4. 4050	KIT, GOVERNOR CONVERSION	2. 703
HOUSING, OIL COOLER-ENGINE	4. 4050	KITS, SERVICE (ALL)	12. 873
HOUSING, OIL FILTER BYPASS VALVE	4. 2388	KNOB, RAW WATER PUMP HANDLE	5. 663
HOUSING, OVERSPEED TRIP GOVERNOR SWITCH	7. 4677	KNOB, STARTING AID PUMP PLUNGER	12. 633
		KNOB, VERNIER THROTTLE CONTROL	2. 913
		L	
		LAMP, INSTRUMENT PANEL	7. 413
		LATCH, AIR SHUTOFF RESET	7. 453
		LEAD, AIR HEATER COIL HIGH TENSION	7. 813
		LEAD, AIR HEATER COIL HIGH TENSION	7. 813
		LEVER AND PIN ASSY., GOVERNOR DIFFERENTIAL	2. 733
		LEVER ASSY., AIR INLET HOUSING SHUTDOWN RESET	3. 313

ALPHABETICAL INDEX

PART NAME	GROUP NO.	PART NAME	GROUP NO.
L		M	
EVER ASSY., AIR SHUTDOWN RESET	3. 4428	MANIFOLD, EXHAUST	6. 1001
EVER ASSY., FUEL MODULATING CONTROL TUBE	2. 9084	MEDALLION, INSTRUMENT PANEL	7. 4099
EVER ASSY., GOVERNOR CONTROL LINK OPERATING	2. 7317	METER HOUR	7. 4118
EVER, ACCELERATOR LINKAGE MT TRANSMISSION	2. 9900	MISCELLANEOUS SERVICE PARTS - SECTION 1	12. 8801
EVER, AIR INLET HOUSING SHUTDOWN VALVE	3. 3090	MOTOR ASSY., GOVERNOR SYNCHRONIZING	2. 8182
EVER, AIR SHUTDOWN VALVE	3. 4427	MOTOR ASSY., STARTING	7. 3001
EVER, AIR SHUTOFF	7. 4536	MOUNTING ASSY., VOLTAGE REGULATOR	7. 1612
EVER, AIR SHUTOFF RESET	7. 4532	MOUNTING, ENGINE FRONT SUPPORT ELASTIC	11. 1072
EVER, CLUTCH HAND CONTROL	8. 1470	MOUNTING, ENGINE REAR SUPPORT ELASTIC	11. 1120
EVER, CLUTCH RELEASE YOKE	8. 1142	MOUNTING, INSTRUMENT PANEL	7. 4010
EVER, GOVERNOR ACCELERATOR CONTROL MT TRANSMISSION	2. 9915	MOUNTING, TACHOMETER-MAGNETO MOUNTING	7. 4064
EVER, GOVERNOR CONTROL	2. 9410	MUFFLER ASSY., EXHAUST	6. 2001
EVER, GOVERNOR CONTROL SHAFT	2. 9390	N	
EVER, GOVERNOR CONTROL SHAFT-REAR OF ENGINE	2. 9361	NAME PLATE, GOVERNOR	2. 7002
EVER, GOVERNOR COVER SHUTDOWN SHAFT	2. 7165	NAME PLATE, RADIATOR	5. 3268
EVER, GOVERNOR COVER THROTTLE SHAFT	2. 7170	NECK ASSY., RADIATOR FILLER	5. 3100
EVER, GOVERNOR OPERATING SHAFT	2. 8975	NECK, EXPANSION TANK FILLER	5. 5120
EVER, GOVERNOR OPERATING SHAFT-UPPER	2. 7280	NOZZLE, AIR HEATER SPRAY	7. 8050
EVER, GOVERNOR ROCKER SHAFT	8. 3450	NOZZLE, CONNECTING ROD SPRAY	1. 6010
EVER, GOVERNOR SPEED ADJUSTING	2. 6420	NOZZLE, CYLINDER HEAD WATER	1. 2005
EVER, GOVERNOR SPEED ADJUSTING	8. 3460	NOZZLE, STARTING AID PUMP TUBE	12. 6375
EVER, GOVERNOR SPEED ADJUSTING FLOATING	2. 8410	NUT ASSY., MASTER CYLINDER END	12. 6817
EVER, GOVERNOR SPEED ADJUSTING TERMINAL	2. 8450	NUT, AIR HEATER INSULATOR	7. 8150
EVER, GOVERNOR TO INJECTOR LINK	2. 7820	NUT, CLUTCH ADJUSTING	8. 1144
EVER, GOVERNOR VARIABLE SPEED CONTROL	2. 7740	NUT, CYLINDER HEAD STUD	1. 2040
EVER, GOVERNOR VARIABLE SPEED SPRING	2. 7730	NUT, INJECTOR VALVE	2. 1030
EVER, INJECTOR CONTROL TUBE	2. 9009	NUT, PROPELLER DRIVE FLANGE	9. 1435
EVER, INJECTOR CONTROL TUBE RACK	2. 9014	O	
EVER, INJECTOR CONTROL TUBE-LOAD LIMIT ADJUSTING	2. 9017	OIL COOLER	4. 4000A
EVER, MANUAL SHUTDOWN	2. 7827	OIL DISTRIBUTION SYSTEM	4. 1000B
EVER, SELECTOR VALVE OPERATING	9. 1175	OIL PAN	4. 7000A
EVER, THROTTLE BOOSTER	2. 9345	OIL PUMP	4. 1000A
EVER, THROTTLE CONTROL CROSS SHAFT	2. 9340	OIL SEAL, GOVERNOR BASE	8. 3385
EVER, THROTTLE CONTROL ROD-LOWER	2. 9290	OIL SEAL, GOVERNOR ROCKER SHAFT	8. 3445
EVER, TRANSMISSION ACCELERATOR CONTROL MT	2. 9910	ORIFICE, CONNECTING ROD	1. 6020
EVER, CYLINDER	1. 6180	OVERHAUL KIT, FUEL PUMP	2. 2004
NK, AIR SHUTDOWN	3. 4416	OVERHAUL KIT, OIL PUMP	4. 1003
NK, CLUTCH RELEASE YOKE	8. 1315	P	
NK, GOVERNOR ACCELERATOR CONTROL MT TRANSMISSION	2. 9930	PACKING, BILGE PUMP SHAFT	12. 2060
NK, GOVERNOR CONTROL SHAFT LEVER	2. 9400	PACKING, GOVERNOR VARIABLE SPEED SPRING LEVER SHAFT	2. 7750
NK, GOVERNOR OPERATING CONNECTING	2. 8955	PAINT, ENGINE TOUCH-UP	12. 8001
NK, GOVERNOR OPERATING LEVER CONNECTING	2. 7312	PAN, OIL	4. 7001
NK, GOVERNOR OPERATING LEVER TO BELL CRANK	2. 8970	PAN, OIL-LOWER	4. 7020
NK, INJECTOR CONTROL TUBE	2. 8940	PAN, OIL-UPPER	4. 7010
NCK, CLUTCH ADJUSTING NUT	8. 1145	PANEL, ENGINE HOOD SIDE	10. 1100
NCK, CLUTCH DRIVE SHAFT BEARING RETAINER	8. 1700	PANEL, INSTRUMENT	7. 4005
NCK, EXHAUST VALVE SPRING	1. 8370	PANEL, REAR HOOD SUPPORT	10. 1035
NCKNUT, GOVERNOR HIGH SPEED SPRING RETAINER	2. 7615	PEDAL ASSY., BRAKE UPPER LOWER	12. 6822
NCKRING, ACCESSORY DRIVE	1. 7650	PILOT, BLOWER DRIVE CAM	3. 4082
NCKRING, GENERATOR DRIVE BEARING	7. 1545	PILOT, BLOWER DRIVER CAM	3. 4082
NBE OIL FILTER	4. 2000A	PIN, BUSHING GUIDE	2. 1165
NBRICANT, FLEXIBLE SHAFT CABLE	12. 8516	PIN, GOVERNOR CONTROL WIRE SWIVEL	2. 9426
NBRICATING COMPOUND THREAD	12. 8110	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

ALPHABETICAL INDEX

PART NAME	GROUP NO.	PART NAME	GROUP NO.
P		P	
PIN, RAW WATER PUMP ROLL	5. 6620	PLUG, FUEL FILTER COVER	2. 3480
PIN, VERNIER THROTTLE CONTROL LOCK BUTTON	2. 9146	PLUG, FUEL PUMP VALVE	2. 2170
PIPE ASSY., BREATHER	4. 8001	PLUG, FUEL STRAINER COVER	2. 3100
PIPE, AIR CLEANER TO INLET HOUSING	3. 1260	PLUG, GOVERNOR HOUSING DUMMY HOLE	2. 8200
PIPE, BLOWER DRIVE BEARING OIL	4. 1660	PLUG, GOVERNOR RELIEF VALVE	2. 8685
PIPE, EXHAUST	6. 2090	PLUG, GOVERNOR SPEED ADJUSTING TERMINAL	
PIPE, FUEL	2. 4020	SLEEVE	2. 8485
PIPE, OIL PUMP INLET	4. 1510	PLUG, GOVERNOR SUB-CAP	2. 8165
PIPE, OIL PUMP OUTLET	4. 1580	PLUG, HEAT EXCHANGER TANK	5. 3486
PIPE, RADIATOR OVERFLOW	5. 3160	PLUG, HYDRAULIC STARTER ENGINE PUMP	
PISTON ASSY., MASTER CYLINDER OPERATING	12. 6815	RELIEF VALVE	12. 6625
PISTON KIT	1. 6110	PLUG, MASTER CYLINDER FILLER	12. 6814
PISTON, FAST IDLE AIR CYLINDER	2. 7860	PLUG, OIL COOLER BYPASS VALVE	4. 4160
PISTON, FORWARD CLUTCH	9. 1225	PLUG, OIL FILTER BYPASS VALVE	4. 2488
PISTON, GOVERNOR SERVO-MOTOR	2. 8510	PLUG, OIL FILTER BYPASS VALVE	8. 3888
PISTON, GOVERNOR SPEED ADJUSTING	2. 7612	PLUG, OIL PAN DRAIN	4. 7080
PISTON, GOVERNOR SPEED CONTROL	2. 7736	PLUG, OIL PRESSURE REGULATOR	4. 1710
PISTON, HYDRAULIC STARTER	12. 6537	PLUG, OIL PUMP RELIEF VALVE	4. 1270
PISTON, HYDRAULIC STARTER ACCUMULATOR	12. 6580	PLUG, RAW WATER PUMP TUBE	5. 6650
PISTON, HYDRAULIC STARTER ENGINE PUMP	12. 6607	PLUG, SELECTOR VALVE PRESSURE REGULATOR	9. 1197
PISTON, HYDRAULIC STARTER HAND PUMP	12. 6638	PLUG, TACHOMETER DRIVE ADAPTOR BEARING	7. 4432
PISTON, INJECTOR CONTROL AIR CYLINDER	2. 9094	PLUNGER AND BUSHING ASSY., INJECTOR	2. 1160
PISTON, OVERSPEED VALVE	7. 4731	PLUNGER ASSY., GOVERNOR PILOT VALVE	2. 8600
PISTON, REVERSE CLUTCH	9. 1030	PLUNGER, FAST IDLE AIR CYLINDER	2. 7865
PLATE ASSY., ACCESSORY DRIVE	1. 7630	PLUNGER, GOVERNOR HIGH SPEED SPRING	2. 7563
PLATE, AIR COMPRESSOR DRIVE	12. 4037	PLUNGER, GOVERNOR LOW SPEED SPRING	2. 7560
PLATE, AIR INLET HOUSING SHUTDOWN		PLUNGER, GOVERNOR VARIABLE SPEED SPRING	2. 7770
CONTROL	3. 3260	PLUNGER, OVERSPEED TRIP GOVERNOR PILOT	
PLATE, AIR SHUTOFF CONTROL INSTRUCTION	7. 4529	VALVE	7. 4620
PLATE, BLOWER HOUSING END	3. 4140	POWER TAKEOFF ASSY.	8. 1001
PLATE, BLOWER ROTOR GOVERNOR DRIVE	3. 4115	PRE-CLEANER ASSY., AIR	3. 1100
PLATE, BLOWER ROTOR THRUST	3. 4033	PRIMER PUMP, FUEL	2. 5490
PLATE, BREATHER DEFLECTOR	4. 8185	PRIMER, FUEL	12. 6655
PLATE, CAM OR BALANCE GEAR	12. 5017	PULLEY AND HUB ASSY. FAN	5. 4015
PLATE, CLUTCH	9. 1062	PULLEY AND HUB ASSY., FAN	5. 4015
PLATE, CLUTCH PRESSURE	8. 1080	PULLEY ASSY., BILGE PUMP DRIVEN	12. 2140
PLATE, CRANKSHAFT FRONT COVER	1. 3171	PULLEY, ACCESSORY DRIVE	1. 7605
PLATE, CYLINDER BLOCK END-REAR	1. 1020	PULLEY, ACCESSORY DRIVEN	1. 7612
PLATE, ENGINE FRONT COVER	4. 1227	PULLEY, AIR COMPRESSOR	12. 4015
PLATE, EXHAUST MANIFOLD COVER	6. 1100	PULLEY, AIR COMPRESSOR DRIVE	12. 4017
PLATE, FORWARD CLUTCH	9. 1235	PULLEY, CRANKSHAFT	1. 3280
PLATE, FUEL FILTER MOUNTING	2. 3535	PULLEY, CRANKSHAFT FRONT POWER TAKE-OFF	8. 1908
PLATE, FUEL PUMP MOUNTING	2. 2235	PULLEY, FRESH WATER PUMP	5. 1214
PLATE, GENERATOR DRIVE PULLEY SHAFT		PULLEY, FRESH WATER PUMP IDLER	5. 1200
COUPLING	7. 1550	PULLEY, FRONT BALANCE	1. 7130
PLATE, HYDRAULIC PUMP DRIVE	12. 5015	PULLEY, GENERATOR	7. 1500
PLATE, HYDRAULIC STARTER ENGINE PUMP		PULLEY, GENERATOR DRIVE	7. 1505
DRIVE	12. 6593	PULLEY, HYDRAULIC STARTER ENGINE PUMP	
PLATE, HYDRAULIC STARTER VALVE	12. 6520	DRIVE	12. 6673
PLATE, INJECTOR CONTROL TUBE LEVER-LOAD		PULLEY, VACUUM PUMP	12. 3010
LIMIT ADJUSTING	2. 9019	PUMP ASSY., AIR HEATER	7. 8200
PLATE, OIL FILTER MOUNTING	4. 2450	PUMP ASSY., BILGE	12. 2001
PLATE, OPTION AND ACCESSORY NAME	1. 8500	PUMP ASSY., FRESH WATER	5. 1001
PLATE, RAW WATER PUMP DRIVE	5. 6410	PUMP ASSY., FUEL	2. 2001
PLATE, REDUCTION GEAR ADAPTOR	9. 1282	PUMP ASSY., HYDRAULIC	12. 5001
PLATE, REDUCTION GEAR PLANETARY RING GEAR	9. 1288	PUMP ASSY., HYDRAULIC MARINE GEAR OIL	9. 1475
PLATE, REVERSE CLUTCH DISC	9. 1045	PUMP ASSY., HYDRAULIC STARTER ENGINE	12. 6590
PLATE, REVERSE CLUTCH REACTION	9. 1060	PUMP ASSY., HYDRAULIC STARTER HAND	12. 6630
PLATE, THROTTLE CONTROL INDICATOR	2. 9170	PUMP ASSY., OIL	4. 1001
PLATE, TIME DELAY RELAY MOUNTING	7. 4711	PUMP ASSY., RAW WATER	5. 6001
PLATE, VOLTAGE REGULATOR MOUNTING	7. 1610	PUMP ASSY., STARTING AID	12. 6305
PLATE, WATER FILTER LOWER	5. 7045	PUMP ASSY., VACUUM	12. 3001
PLATE, WATER FILTER SUMP	5. 7023	PUNCTURING TOOL ASSY., STARTING FLUID	
PLATE, WATER FILTER UPPER	5. 7043	CAPSULE	12. 6380
PLATE, FLYWHEEL INPUT DRIVE	1. 4072		
PLUG, AIR HEATER	7. 8010		
PLUG, BLOWER ROTOR SHAFT	3. 4037		

ALPHABETICAL INDEX

PART NAME	GROUP NO.	PART NAME	GROUP NO.
R		R	
RACK ASSY., INJECTOR	2. 1170	RING, HYDRAULIC STARTER ENGINE PUMP	12. 6611
RADIATOR ASSY.	5. 3001	RING, INJECTOR HOLE TUBE SEAL	1. 2046
RAIL, ENGINE MOUNTING	11. 1050	RING, INJECTOR SEAL	2. 1040
RECONDITIONING KIT, FRESH WATER PUMP	5. 1002	RING, PISTON COMPRESSION	1. 6120
RECONDITIONING KIT, RAW WATER PUMP	5. 6025	RING, PISTON OIL CONTROL	1. 6130
REGULATOR, VOLTAGE	7. 1605	RING, RAW WATER PUMP BEARING RETAINER	5. 6140
RELAY, ALARM BELL	7. 4514	RING, RAW WATER PUMP SHAFT SEAL	5. 6176
RELAY, TIME DELAY	7. 4707	RING, RAW WATER PUMP SHAFT SEAL FRICTION	5. 6175
REPLACEMENT KIT, FRESH WATER PUMP SEAL		RISER, GOVERNOR	2. 7380
SEAT	5. 1115	RISER, GOVERNOR	8. 3420
REPLACEMENT KIT, RAW WATER PUMP SEAL		ROCKER COVER	1. 8000A
AND IMPELLER	5. 6220	ROD AND CLEVIS ASSY., THROTTLE CONTROL	2. 9280
RESERVOIR ASSY., GOVERNOR OIL	2. 8905	ROD ASSY., GOVERNOR TO INJECTOR LINK	2. 7819
RESERVOIR ASSY., STARTING AID	12. 6410	ROD ASSY., MASTER CYLINDER PISTON PUSH	12. 6818
RESERVOIR, HYDRAULIC STARTER	12. 6551	ROD, AIR INLET HOUSING SHUTDOWN RESET	
RETAINER ASSY., ACCESSORY DRIVE	1. 7645	LEVER	3. 3115
RETAINER OIL FILTER TUBE ADAPTOR BYPASS		ROD, AIR SHUTOFF SOLENOID CONTROL	7. 4538
VALVE SPRING	4. 3060	ROD, ENGINE HOOD TIE	10. 1080
RETAINER, BILGE PUMP SHAFT BEARING	12. 2120	ROD, ENGINE MOUNTING RAIL TIE	11. 1052
RETAINER, BLOWER DRIVE COUPLING	3. 4420	ROD, GOVERNOR FUEL	2. 8070
RETAINER, BLOWER DRIVE SHAFT	3. 4450	ROD, PUSH	1. 8180
RETAINER, BLOWER ROTOR FRONT BEARING	3. 4050	ROD, STARTING CONTROL	7. 4564
RETAINER, BLOWER ROTOR OIL SEAL	3. 4042	ROD, THROTTLE CONTROL LEVER TO BELL CRANK	2. 9720
RETAINER, BLOWER ROTOR REAR BEARING	3. 4070	ROLLER SET, CAM FOLLOWER	1. 8265
RETAINER, CAM AND BALANCE SHAFT GEAR NUT	1. 7207	ROTOR ASSY., OIL PUMP	4. 1085
RETAINER, CAM OR BALANCE GEAR	1. 7633	ROTOR ASSY., TURBOCHARGER	3. 5030
RETAINER, CAM OR BLANCER GEAR	5. 6413	ROTOR, BLOWER IMPELLER	3. 4030
RETAINER, CLUTCH DRIVE SHAFT BEARING	8. 1690	ROTOR, HYDRAULIC STARTER	12. 6535
RETAINER, CLUTCH PILOT BEARING	1. 4045		
RETAINER, CRANKSHAFT PULLEY	1. 3290	S	
RETAINER, CYLINDER PISTON SPRING	2. 9082	SCREEN, AIR CLEANER	3. 1040
RETAINER, DRIVE PULLEY HUB OIL SEAL	1. 7615	SCREEN, BLOWER	3. 4025
RETAINER, FAN SHAFT BEARING	5. 4140	SCREEN, OIL PUMP INLET	4. 1530
RETAINER, GENERATOR DRIVE BEARING AND OIL		SCREW ASSY., GOVERNOR BUFFER	2. 7810
SEAL	7. 1520	SCREW, CONVERTER OIL FILTER COVER	8. 3876
RETAINER, GOVERNOR DRIVE SHAFT BEARING	2. 8850	SCREW, FAN BRACKET ADJUSTING	5. 4290
RETAINER, GOVERNOR FUEL ROD SPRING	2. 8140	SCREW, FUEL FILTER COVER	2. 3410
RETAINER, GOVERNOR HIGH SPEED SPRING	2. 7610	SCREW, FUEL STRAINER COVER	2. 3120
RETAINER, GOVERNOR PACKING SHUTDOWN		SCREW, GOVERNOR HI-SPEED STOP	2. 8520
SHAFT	2. 7155	SCREW, GOVERNOR HIGH SPEED CONTROL	2. 7655
RETAINER, GOVERNOR PACKING THROTTLE		SCREW, GOVERNOR LOAD LIMIT	2. 8180
SHAFT	2. 7150	SCREW, GOVERNOR LOW SPEED SPRING	
RETAINER, GOVERNOR VARIABLE SPEED SPRING	2. 7790	ADJUSTING	2. 7590
RETAINER, HEAT EXCHANGER SEAL	5. 5025	SCREW, INJECTOR CONTROL TUBE LEVER	
RETAINER, IDLER GEAR BEARING	1. 7227	PLATE-LOAD LIMIT ADJUSTING	2. 9021
RETAINER, IDLER PULLEY SHAFT BEARING	5. 1208	SEAL RING, AIR HEATER PUMP PLUNGER	7. 8215
RETAINER, INJECTOR GEAR	2. 1190	SEAL RING, STARTING AID PUMP PLUNGER	12. 6312
RETAINER, OIL FILTER SPRING	4. 2315	SEAL, ACCESSORY DRIVE OIL	1. 7660
RETAINER, OIL FILTER TUBE ADAPTOR BY-PASS		SEAL, AIR CLEANER BOLT	3. 1075
VALVE SPRING	4. 3060	SEAL, AIR COMPRESSOR DRIVE	12. 4051
RETAINER, OUTPUT SHAFT BEARING	9. 1098	SEAL, AIR INLET HOUSING SHUTDOWN VALVE	
RETAINER, PISTON PIN	1. 6150	SHAFT	
RETAINER, PUSH ROD	1. 8250	SEAL, BALANCE WEIGHT COVER OIL	3. 3055
RETAINER, ROCKER COVER NAME PLATE	1. 8502	SEAL, BLOWER DRIVE COVER	3. 4220
RETAINER, SPIDER DRIVE	9. 1014	SEAL, BLOWER HOUSING END PLATE	3. 4160
RETAINER, TACHOMETER	7. 4063	SEAL, BLOWER ROTOR RETAINER OIL	3. 4041
NG SET, PISTON	1. 6115	SEAL, CAMSHAFT OIL	1. 7060
NG, AIR COMPRESSOR DRIVE COUPLING	12. 4055	SEAL, CRANKSHAFT OIL SEAL - REAR	1. 5004
NG, BLOWER DRIVE SHAFT	3. 4446	SEAL, CRANKSHAFT OIL-FRONT	1. 3040
NG, BLOWER ROTOR OIL SEAL	3. 4044	SEAL, CRANKSHAFT OIL-REAR	1. 3060
NG, CLUTCH DRIVING	8. 1018	SEAL, CRANKSHAFT OIL-REAR	1. 5004
NG, CLUTCH REACTION PLATE SNAP	9. 1065	SEAL, CYLINDER LINER	1. 6190
NG, CROSSHEAD PISTON SEAL	1. 6106	SEAL, DRIVE PULLEY HUB OIL	1. 7620
NG, CYLINDER SPRING RETAINER SNAP	2. 9083	SEAL, FAN SHAFT	5. 4150
NG, ENGINE FRONT TRUNNION MOUNTING		SEAL, FLYWHEEL OIL	1. 4008
SUPPORT CUSHION	11. 1094	SEAL, FORWARD CLUTCH PISTON	9. 1230
NG, GOVERNOR OIL PUMP HOUSING SEAL	2. 8700		

ALPHABETICAL INDEX

PART NAME	GROUP NO.	PART NAME	GROUP NO.
S		S	
SEAL, FRESH WATER PUMP	5. 1130	SHAFT, FAN BELT IDLER PULLEY	5. 4341
SEAL, FUEL PUMP OIL	2. 2070	SHAFT, FUEL PUMP DRIVE	2. 2093
SEAL, GASKET OVERSPEED TRIP GOVERNOR HOUSING COVER OIL	7. 4636	SHAFT, FUEL PUMP DRIVEN	2. 2089
SEAL, GENERATOR DRIVE OIL	7. 1515	SHAFT, GENERATOR DRIVE	7. 1530
SEAL, GOVERNOR	2. 7945	SHAFT, GOVERNOR	8. 3435
SEAL, GOVERNOR OPERATING SHAFT OIL	2. 7265	SHAFT, GOVERNOR CONTROL-REAR OF ENGINE TO GOVERNOR	2. 9362
SEAL, GOVERNOR SPEED ADJUSTING SHAFT OIL	2. 8350	SHAFT, GOVERNOR DRIVE	2. 8820
SEAL, GOVERNOR SPEED ADJUSTING TERMINAL SHAFT OIL	2. 8472	SHAFT, GOVERNOR DRIVEN	2. 8795
SEAL, GOVERNOR SPEED CONTROL PISTON	2. 7737	SHAFT, GOVERNOR OPERATING	2. 7255
SEAL, HEAT EXCHANGER	5. 5026	SHAFT, GOVERNOR SPEED ADJUSTING	2. 8280
SEAL, HYDRAULIC PUMP OIL	9. 1505	SHAFT, GOVERNOR SPEED ADJUSTING	8. 3470
SEAL, HYDRAULIC STARTER ACCUMULATOR CAP	12. 6574	SHAFT, GOVERNOR SPEED ADJUSTING TERMINAL	2. 8470
SEAL, HYDRAULIC STARTER ACCUMULATOR PISTON	12. 6582	SHAFT, GOVERNOR VARIABLE SPEED SPRING LEVER	2. 7720
SEAL, HYDRAULIC STARTER ENGINE PUMP OIL	12. 6603	SHAFT, GOVERNOR WEIGHT CARRIER	2. 7360
SEAL, IDLER PULLEY SHAFT	5. 1207	SHAFT, HYDRAULIC STARTER	12. 6532
SEAL, MARINE GEAR INPUT SHAFT	9. 1018	SHAFT, HYDRAULIC STARTER CONTROL	12. 6512
SEAL, OVERSPEED TRIP GOVERNOR MOUNTING OIL	7. 4644	SHAFT, HYDRAULIC STARTER ENGINE PUMP	12. 6600
SEAL, RAW WATER PUMP BEARING	5. 6160	SHAFT, INJECTOR CONTROL TUBE END	2. 9007
SEAL, RAW WATER PUMP SHAFT	5. 6170	SHAFT, MARINE GEAR INPUT	9. 1026
SEAL, REDUCTION GEAR BEARING OIL COVER	9. 1375	SHAFT, OIL PUMP DRIVE	4. 1070
SEAL, REVERSE CLUTCH PISTON	9. 1035	SHAFT, OIL PUMP DRIVEN GEAR	4. 1080
SEAL, ROTOR ASSY. SHAFT OIL	3. 5028	SHAFT, OUTPUT AND BUSHING ASSY.	9. 1093
SEAL, SELECTOR VALVE OIL	9. 1160	SHAFT, OVERSPEED TRIP GOVERNOR OPERATING	7. 4646
SEAL, SELECTOR VALVE STEM	9. 1139	SHAFT, POWER TAKE-OFF ADAPTOR STUB	8. 1904
SEAL, TACHOMETER DRIVE COVER	7. 4450	SHAFT, RAW WATER PUMP	5. 6120
SEAL, TACHOMETER DRIVE COVER ADAPTOR	7. 4458	SHAFT, REDUCTION GEAR DRIVE	9. 1340
SEAL, THERMOSTAT	5. 2060	SHAFT, TACHOMETER AND BLOWER DRIVE	7. 4434
SEAL, THERMOSTAT HOUSING OUTLET ELBOW	5. 2093	SHAFT, TACHOMETER DRIVE	7. 4435
SEAT, BLOWER DRIVE COUPLING SPRING	3. 4410	SHAFT, THROTTLE CONTROL CROSS	2. 9310
SEAT, EXHAUST VALVE SPRING	1. 8360	SHAFT, THROTTLE CONTROL-OPERATING SOLENOID DRIVE	2. 9367
SEAT, FUEL FILTER ELEMENT	2. 3322	SHAFT, THROTTLE CONTROL-REAR OF ENGINE TO GOVERNOR	2. 9360
SEAT, GOVERNOR LOW SPEED SPRING	2. 7570	SHAFT, VERNIER THROTTLE CONTROL	2. 9140
SEAT, HYDRAULIC STARTER ENGINE PUMP RELIEF VALVE SPRING	12. 6623	SHELL ASSY., RADIATOR	5. 3015
SEAT, INJECTOR VALVE	2. 1247	SHELL, BREATHER	4. 8055
SEAT, INJECTOR VALVE SPRING	2. 1255	SHELL, CONNECTING ROD BEARING	1. 6100
SEAT, PUSH ROD SPRING-LOWER	1. 8210	SHELL, CONVERTER OIL FILTER	8. 3874
SEAT, PUSH ROD SPRING-UPPER	1. 8200	SHELL, CRANKSHAFT MAIN BEARING	1. 3090
SEAT, RAW WATER PUMP SHAFT SEAL	5. 6173	SHELL, FUEL FILTER	2. 3380
SERVICE KIT, INJECTOR	2. 1002	SHELL, FUEL STRAINER	2. 3050
SHAFT AND CARRIER ASSY., GOVERNOR WEIGHT	2. 7350	SHELL, HYDRAULIC STARTER ACCUMULATOR	12. 6572
SHAFT ASSY., CONTROL LINK OPERATING	2. 8811	SHELL, OIL FILTER	4. 2280
SHAFT ASSY., FRESH WATER PUMP	5. 1050	SHIELD HEAT	12. 6401
SHAFT ASSY., GOVERNOR DRIVEN	2. 8790	SHIELD, GENERATOR	7. 1005
SHAFT ASSY., GOVERNOR OPERATING	2. 7250	SHIELD, RAW WATER PUMP CLUTCH	5. 6610
SHAFT ASSY., GOVERNOR SHUTDOWN	2. 7115	SHIELDING, FLEXIBLE HOSE	2. 5255
SHAFT ASSY., GOVERNOR THROTTLE	2. 7095	SHIM, BILGE PUMP SHAFT BEARING	12. 2110
SHAFT ASSY., OUTPUT	9. 1089	SHIM, BLOWER ROTOR GEAR	3. 4090
SHAFT ASSY., ROCKER	1. 8160	SHIM, FLYWHEEL HOUSING TO END PLATE	1. 5002
SHAFT ASSY., TACHOMETER DRIVE FLEXIBLE	7. 4405	SHIM, GOVERNOR HIGH SPEED SPRING	2. 7600
SHAFT ASSY., TURBOCHARGER ROTOR	3. 5033	SHIM, GOVERNOR VARIABLE SPEED SPRING	2. 7800
SHAFT, ACCESSORY DRIVE	1. 7640	SHIM, OIL PUMP	4. 1030
SHAFT, AIR COMPRESSOR DRIVE	12. 4047	SHROUD, FAN	5. 4560
SHAFT, AIR INLET HOUSING SHUTDOWN VALVE	3. 3050	SILENCER, AIR	3. 2001
SHAFT, AIR SHUTDOWN VALVE	3. 4422	SLEEVE ASSY., OUTPUT SHAFT	9. 1092
SHAFT, BALANCE	1. 7080	SLEEVE, CLUTCH RELEASE	8. 1285
SHAFT, BLOWER DRIVE	3. 4445	SLEEVE, CRANKSHAFT FRONT OIL SEAL SPACER	1. 3056
SHAFT, BLOWER ROTOR	3. 4035	SLEEVE, CRANKSHAFT REAR OIL SEAL	1. 3066
SHAFT, CLUTCH DRIVE	8. 1670	SLEEVE, GOVERNOR DRIVEN SHAFT	2. 8800
SHAFT, CLUTCH FORWARD AND REVERSE TWIN DISC	9. 1032	SLEEVE, GOVERNOR SPEED ADJUSTING SHAFT	2. 8360
SHAFT, CLUTCH RELEASE	8. 1270	SLEEVE, GOVERNOR SPEED ADJUSTING TERMINAL	2. 8480
SHAFT, FAN	5. 4100	SLEEVE, OVERSPEED VALVE ADJUSTING	7. 4739

ALPHABETICAL INDEX

PART NAME	GROUP NO.	PART NAME	GROUP NO.
S		S	
SLINGER, CAMSHAFT OIL	1. 7061	SPRING, GOVERNOR SPEEDER	2. 8530
SLINGER, RAW WATER PUMP SHAFT	5. 6200	SPRING, GOVERNOR THROTTLE LEVER RETURN	2. 7910
SLINGER, TACHOMETER DRIVE SHAFT	7. 4440	SPRING, GOVERNOR THROTTLE SHAFT ARM	
SOCKET LAMP-INSTRUMENT PANEL LAMP	7. 4105	RETURN	2. 7093
SOLENOID, AIR SHUTOFF OR GOVERNOR	7. 4519	SPRING, GOVERNOR THROTTLE SPEED	
SOLENOID, THROTTLE CONTROL	2. 9355	ADJUSTING	2. 7174
SPACER, ACCESSORY DRIVE OIL SEAL	1. 7665	SPRING, GOVERNOR VARIABLE SPEED	2. 7760
SPACER, BLOWER ROTOR GEAR	3. 4100	SPRING, HYDRAULIC STARTER CONTROL SHAFT	
SPACER, BLOWER ROTOR SHAFT OIL SEAL	3. 4163	TORSION	12.6513
SPACER, CAMSHAFT AND BALANCE SHAFT GEAR	1. 7202	SPRING, HYDRAULIC STARTER ENGINE PUMP	
SPACER, CAMSHAFT OIL SEAL	1. 7062	PISTON	12.6608
SPACER, CLUTCH DRIVE SHAFT BEARING		SPRING, HYDRAULIC STARTER ENGINE PUMP	
RETAINER	8. 1695	RELIEF VALVE	12.6622
PACER, CRANKSHAFT FRONT OIL SEAL	1. 3055	SPRING, INJECTOR CONTROL AIR CYLINDER	2. 9097
PACER, CRANKSHAFT REAR OIL SEAL	1. 3065	SPRING, INJECTOR CONTROL TUBE	2. 9012
PACER, FAN SHAFT BEARING	5. 4170	SPRING, INJECTOR CONTROL TUBE THROTTLE	2. 9011
PACER, GENERATOR ADJUSTING STRAP	7. 1581	SPRING, INJECTOR FILTER	2. 1120
PACER, GENERATOR AND MOUNTING BRACKET	7. 1598	SPRING, INJECTOR PLUNGER	2. 1080
PACER, GENERATOR DRIVE BELT AND PULLEY		SPRING, INJECTOR VALVE	2. 1250
GUARD	7. 1590	SPRING, OIL COOLER BYPASS VALVE	4. 4150
PACER, GENERATOR DRIVE PULLEY SHAFT		SPRING, OIL FILTER	4. 2310
BEARING	7. 1540	SPRING, OIL FILTER BYPASS VALVE	4. 2486
PACER, GENERATOR DRIVEN PULLEY	7. 1503	SPRING, OIL FILTER BYPASS VALVE	8. 3886
PACER, GENERATOR VOLTAGE REGULATOR		SPRING, OIL FILTER TUBE ADAPTOR BY-PASS	
PLATE	7. 1615	VALVE	4. 3057
PACER, GOVERNOR DRIVE SHAFT BEARING	2. 8840	SPRING, OIL FILTER TUBE ADAPTOR BYPASS	4. 3057
PACER, GOVERNOR WEIGHT SHAFT	2. 7475	SPRING, OIL PRESSURE REGULATOR	4. 1690
PACER, IDLER GEAR HOLE	1. 7260	SPRING, OIL PRESSURE RELIEF VALVE	4. 1583
PACER, IDLER PULLEY SHAFT BEARING	5. 1209	SPRING, OIL PUMP RELIEF VALVE	4. 1260
PACER, INJECTOR CONTROL TUBE LEVER	2. 9010	SPRING, OVERSPEED TRIP GOVERNOR HIGH OR	
PACER, OIL FILTER	4. 2270	LOW SPEED	7. 4651
PACER, OIL PUMP BODY	4. 1060	SPRING, OVERSPEED VALVE PISTON	7. 4737
PACER, RADIATOR MOUNTING	5. 3250	SPRING, PRESSURE REGULATOR RELIEF VALVE	9. 1195
PACER, RAW WATER PUMP DRIVE	5. 6450	SPRING, PUSH ROD	1. 8190
PACER, REDUCTION GEAR DRIVE SHAFT		SPRING, RAW WATER PUMP GUIDE TUBE	5. 6660
BEARING	9. 1351	SPRING, RAW WATER PUMP HANDLE	5. 6680
PACER, TURBOCHARGER ROTOR THRUST	3. 5035	SPRING, RAW WATER PUMP SHAFT SEAL	5. 6178
SPEED, TRIP GOVERNOR SWITCH HOUSING	7. 4681	SPRING, RESET LEVER ROD	3. 3125
SLIDER AND SHAFT ASSY., GOVERNOR		SPRING, REVERSE CLUTCH RELEASE	9. 1055
OPERATING	8. 3400	SPRING, SELECTOR RELIEF VALVE	9. 1147
SLIDER, MARINE GEAR DRIVE	9. 1009	SPRING, SELECTOR VALVE PRESSURE	9. 1155
SPRING, AIR HEATER PUMP	7. 8265	SPRING, SPEED ADJUSTING SHAFT TORSION	2. 8355
SPRING, AIR INLET HOUSING SHUTDOWN VALVE		SPRING, STARTING CONTROL ROD RETRACTING	7. 4570
TENSION	3. 3070	SPRING, THROTTLE BOOSTER	2. 7980
SPRING, AIR SHUTDOWN VALVE	3. 4426	SPRING, THROTTLE BOOSTER	2. 9347
SPRING, AIR SHUTOFF RESET LATCH	7. 4560	SPRING, VERNIER THROTTLE CONTROL LOCK	2. 9138
SPRING, BLOWER DRIVE COUPLING	3. 4400	SPRING, VERNIER THROTTLE CONTROL LOCK	
SPRING, BLOWER ROTOR OIL SEAL	3. 4043	BUTTON PIN	2. 9147
SPRING, CLUTCH PRESSURE PLATE RETURN	8. 1135	SPRING, WATER FILTER	5. 7026
SPRING, CLUTCH TOGGLE LEVER	8. 1100	STABILIZER, CRANKSHAFT MAIN BEARING CAP	1. 3112
SPRING, EXHAUST VALVE	1. 8340	STAKING AND FERRULE, ROLLING TOOL FLEXIBLE	
SPRING, EXTENSION STARTER HANDLE RETURN	12.6821	SHAFT	12.8518
SPRING, FAN BELT IDLER PULLEY SUPPORT		STARTER ASSY., HYDRAULIC	12.6501
SHAFT	5. 4353	STEM, SELECTOR VALVE	9. 1138
RING, FAST IDLE AIR CYLINDER	2. 7870	STOP, GOVERNOR VARIABLE SPEED SPRING	
RING, FLEXIBLE SHAFT CASING	12.8512	RETAINER	2. 7795
RING, FORWARD CLUTCH RELEASE	9. 1240	STOP, INJECTOR VALVE	2. 1260
RING, FUEL FILTER ELEMENT	2. 3370	STRAINER AND PLUG ASSY., STARTING FLUID	12.6385
RING, FUEL PUMP VALVE RETAINING	2. 2160	STRAINER ASSY., FUEL	2. 3001
RING, FUEL STRAINER	2. 3060	STRAINER ASSY., OIL MARINE GEAR	9. 1650
RING, GOVERNOR CONTROL RETRACTING	2. 9405	STRAINER, AIR COMPRESSOR	12.4300
RING, GOVERNOR FUEL ROD SHORT	2. 8120	STRAINER, AIR COMPRESSOR ON COMPRESSOR	12.4300
RING, GOVERNOR HIGH SPEED	2. 7550	STRAINER, FUEL TANK HOSE	2. 6007
RING, GOVERNOR LOW SPEED	2. 7540	STRAINER, OIL FILLER TUBE	4. 5020
RING, GOVERNOR RELIEF VALVE	2. 8680	STRAP, ACCUMULATOR MOUNTING	12.6682
RING, GOVERNOR SHUTDOWN SHAFT	2. 7117	STRAP, AIR CLEANER MOUNTING	3. 1220
RING, GOVERNOR SPEED ADJUSTING	8. 3465	STRAP, AIR SILENCER MOUNTING	3. 2014

ALPHABETICAL INDEX

PART NAME	GROUP NO.	PART NAME	GROUP NO.
S		T	
STRAP, ENGINE TO BASE GROUND	7. 7110	TUBE ASSY., ADAPTOR TO WATER PUMP	7. 4687
STRAP, FUEL TANK	2. 6065	TUBE ASSY., CYLINDER HEAD AIR INLET	2. 9087
STRAP, GENERATOR ADJUSTING	7. 1580	TUBE ASSY., CYLINDER INLET	2. 9086
STRAP, HYDRAULIC STARTER RESERVOIR	12. 6552	TUBE ASSY., FUEL PUMP DRAIN	2. 2300
STRAP, STARTING MOTOR GROUND SWITCH	7. 3242	TUBE ASSY., GOVERNOR BEARING LUBRICATION	2. 7890
STUD, BILGE PUMP BODY	12. 2020	TUBE ASSY., INJECTOR CONTROL	2. 9001
STUD, BILGE PUMP SHAFT PACKING GLAND	12. 2080	TUBE, AIR BOX DRAIN	1. 1100
STUD, CYLINDER HEAD	1. 2030	TUBE, AIR COMPRESSOR BOOSTER	12. 4375
STUD, EXHAUST MANIFOLD TO HEAD	6. 1020	TUBE, AIR COMPRESSOR LUBE OIL DRAIN	12. 4070
STUD, EXHAUST OUTLET	6. 2115	TUBE, AIR COMPRESSOR LUBE OIL SUPPLY	12. 4065
STUD, GOVERNOR OIL PUMP DRIVEN GEAR TO BASE	2. 8740	TUBE, AIR COMPRESSOR WATER INLET	12. 4085
STUD, OIL FILTER CENTER	4. 2410	TUBE, AIR COMPRESSOR WATER OUTLET	12. 4090
SUB-CAP ASSY., GOVERNOR	2. 8050	TUBE, AIR HEATER FUEL RETURN	7. 8313
SUPPORT ASSY., FAN BELT IDLER PULLEY	5. 4347	TUBE, AIR HEATER INLET	7. 8310
SUPPORT, AIR CLEANER MOUNTING BRACKET	3. 1250	TUBE, AIR HEATER PUMP INLET	7. 8300
SUPPORT, AIR SILENCER	3. 2010	TUBE, BATTERY BOX HEATER	7. 8420
SUPPORT, BLOWER DRIVE COUPLING	3. 4380	TUBE, BREATHING TUBE TO DRAIN TANK	4. 8190
SUPPORT, BLOWER DRIVE GEAR HUB	3. 4350	TUBE, CONTROL VALVE TO HYDRAULIC PUMP HOUSING	9. 1598
SUPPORT, BREATHING TUBE CLIP	4. 8042	TUBE, CONVERTER TO FILTER	8. 3827
SUPPORT, ENGINE FRONT	11. 1070	TUBE, CONVERTER TO OIL COOLER	8. 3800
SUPPORT, ENGINE FRONT TRUNNION MOUNTING	11. 1090	TUBE, CYLINDER HEAD VENT	5. 3480
SUPPORT, ENGINE REAR	11. 1100	TUBE, EXHAUST MANIFOLD FRESH WATER OUTLET	5. 3447
SUPPORT, ENGINE REAR HOOD	10. 1025	TUBE, EXHAUST MANIFOLD WATER-INLET	7. 4694
SUPPORT, EXHAUST PIPE	6. 2091	TUBE, EXHAUST MANIFOLD WATER-OUTLET	7. 4699
SUPPORT, FAN MOUNTING	5. 4025	TUBE, EXPANSION TANK OVERFLOW	5. 5190
SUPPORT, FUEL STRAINER MOUNTING BRACKET	2. 3263	TUBE, FILTER OUTLET	2. 5151
SUPPORT, FUEL SYSTEM SHUTOFF VALVE	2. 5270	TUBE, FILTER TO CYLINDER HEAD	2. 5149
SUPPORT, GENERATOR MOUNTING	11. 1190	TUBE, FILTER TO OIL COOLER	8. 3828
SUPPORT, INPUT SHAFT BEARING	9. 1024	TUBE, FRESH WATER PUMP VENT	5. 1003
SUPPORT, INSTRUMENT PANEL	7. 4013	TUBE, FUEL COOLER	2. 5214
SUPPORT, OIL FILTER MOUNTING	4. 2470	TUBE, FUEL DRAIN	2. 5210
SUPPORT, OIL PUMP INLET TUBE	4. 1512	TUBE, FUEL DRAIN CROSSOVER	2. 5205
SUPPORT, POWER TAKE-OFF	8. 1895	TUBE, FUEL PUMP TO CYLINDER HEAD	2. 5101
SUPPORT, THROTTLE CONTROL BRACKET	2. 9175	TUBE, FUEL PUMP TO FILTER	2. 5100
SUPPORT, TORQUE CONVERTER	8. 3270	TUBE, FUEL SUPPLY CROSSOVER	2. 5163
SUPPORT, VACUUM PUMP	12. 3020	TUBE, FUEL SUPPLY TO STRAINER	2. 5001
SWITCH, ALARM SHUTOFF-FUEL	7. 4598	TUBE, FUEL TANK SUCTION	2. 6095
SWITCH, ENGINE STARTING	7. 4115	TUBE, GOVERNOR OPERATING PRESSURE	2. 8910
SWITCH, OIL PRESSURE	7. 4125	TUBE, GOVERNOR OPERATING SHAFT	2. 7257
SWITCH, OIL PRESSURE	7. 4586	TUBE, HEAD TO BLOWER BREATHING	4. 8005
SWITCH, OVERSPEED TRIP GOVERNOR	7. 4659	TUBE, HEAT EXCHANGER RAW WATER INLET INTERMEDIATE	5. 5430
SWITCH, SHUTDOWN SOLENOID MICRO	7. 4520	TUBE, HEAT EXCHANGER WATER INLET	5. 5440
SWITCH, TRANSMISSION OIL TEMPERATURE	4. 4360	TUBE, HEAT EXCHANGER WATER OUTLET	5. 5550
SWITCH, WATER HEATER CONTROL	12. 6405	TUBE, HYDRAULIC GEAR OIL STRAINER TO PUMP	9. 1720
SWITCH, WATER TEMPERATURE	7. 4128	TUBE, HYDRAULIC PUMP TO CONTROL VALVE	9. 1593
SWITCH, WATER TEMPERATURE	7. 4505	TUBE, HYDRAULIC STARTER ACCUMULATOR TO HYDRAULIC STARTER	12. 6860
T		TUBE, HYDRAULIC STARTER HAND PUMP TO ACCUMULATOR	12. 6855
TACHOMETER	7. 4060	TUBE, INJECTOR HOLE	1. 2045
TANK AND STRAINER ASSY., STARTING AID	12. 6355	TUBE, JUNCTION BLOCK INLET	4. 1581
TANK ASSY., AIR BOX AND FUEL PUMP DRAIN	1. 1150	TUBE, JUNCTION BLOCK TO CYLINDER HEAD	2. 5175
TANK ASSY., FUEL	2. 6001	TUBE, LOW OIL PRESSURE SWITCH	4. 2497
TANK EXPANSION	5. 5001	TUBE, OIL COOLER TO CONVERTER	8. 3818
THERMOSTAT	5. 2000B	TUBE, OIL FILLER	4. 5001
THERMOSTAT ASSY.	5. 2050	TUBE, OIL FILTER INLET	4. 3001
TIP ASSY., INJECTOR SPRAY	2. 1235	TUBE, OIL FILTER OUTLET	4. 3020
TIP KIT, INJECTOR SPRAY	2. 1220	TUBE, OIL PAN DRAIN	4. 7100
TIP, FLEXIBLE SHAFT LOWER	12. 8506	TUBE, OIL PRESSURE GAGE	4. 1597
TIP, FLEXIBLE SHAFT UPPER	12. 8508	TUBE, OIL PRESSURE GAGE FOR CUSTOMER GAGE CONNECTOR TO SELECTOR VALVE	9. 1775
TIP, INJECTOR SPRAY	2. 1230	TUBE, OIL PRESSURE GAGE-ENGINE	7. 4074
TRANSMISSION ASSY.	9. 7001	TUBE, OIL PRESSURE GAGE-MARINE	4. 1597
TRUNNION, ENGINE FRONT	11. 1088		
TUBE & ELBOW ASSY., AIR COMPRESSOR BOOSTER INLET	12. 4375		
TUBE ASSY., ADAPTOR TO OUTLET ELBOW	7. 4686		

ALPHABETICAL INDEX

PART NAME	GROUP NO.	PART NAME	GROUP NO.
T		V	
TUBE, OIL PRESSURE SWITCH	7. 4596	VALVE, INJECTOR	2. 1245
TUBE, OIL PRESSURE SWITCH RETURN	7. 4597	VALVE, INJECTOR CHECK	2. 1200
TUBE, OVERSPEED GOVERNOR OIL SUPPLY	7. 4668	VALVE, MARINE GEAR PRESSURE REGULATOR	9. 1021
TUBE, OVERSPEED VALVE AIR PRESSURE	7. 4744	VALVE, OIL COOLER BYPASS	4. 4140
TUBE, OVERSPEED VALVE OIL DRAIN	7. 4748	VALVE, OIL COOLER PRESSURE REGULATOR	9. 1019
TUBE, OVERSPEED VALVE OIL SUPPLY	7. 4746	VALVE, OIL FILTER BYPASS	4. 2400
TUBE, RAW WATER PUMP GUIDE	5. 6670	VALVE, OIL FILTER BYPASS	4. 2485
TUBE, RAW WATER PUMP INLET	5. 5377	VALVE, OIL FILTER BYPASS	8. 3884
TUBE, RAW WATER PUMP OUTLET	5. 5380	VALVE, OIL FILTER TUBE ADAPTOR BY-PASS	4. 3055
TUBE, REDUCTION GEAR OIL FILLER	9. 1410	VALVE, OIL FILTER TUBE ADAPTOR BYPASS	4. 3055
TUBE, SOLENOID VALVE DRAIN	2. 7930	VALVE, OIL PRESSURE REGULATOR	4. 1700
TUBE, SOLENOID VALVE SUPPLY	2. 7925	VALVE, OIL PRESSURE RELIEF	4. 1582
TUBE, SOLENOID VALVE TO GOVERNOR	2. 7927	VALVE, OIL PUMP RELIEF	4. 1250
TUBE, STARTING AID PUMP TO NOZZLE	12. 6370	VALVE, PRESSURE REGULATOR RELIEF	9. 1194
TUBE, STARTING AID TANK TO PUMP	12. 6365	VALVE, SELECTOR	9. 1137
TUBE, STRAINER TO FUEL PUMP	2. 5050	VALVE, STARTING AID PUMP-INLET	12. 6340
TUBE, THERMOSTAT HOUSING VENT	5. 2135	VALVE, STARTING AID PUMP-OUTLET	12. 6345
TUBE, THROTTLE CONTROL CROSS SHAFT	2. 9312	VENT, EXHAUST MANIFOLD WATER OUTLET	
TUBE, TURBOCHARGER OIL RETURN	3. 5505	FLANGE	5. 3465
TUBE, TURBOCHARGER OIL SUPPLY	3. 5500	VENTILATION	4. 8000A
TUBE, VACUUM PUMP OIL DRAIN	12. 3050		
TUBE, VACUUM PUMP OIL SUPPLY	12. 3040	W	
TUBE, WATER BYPASS	5. 2160	WASHER, BLOWER DRIVE GEAR HUB THRUST	3. 4320
TUBE, WATER HEATER OUTLET	12. 6408	WASHER, BLOWER ROTOR SHAFT THRUST	3. 4036
TUBE, WATER HEATER SUPPLY	12. 6407	WASHER, CAM AND BALANCE SHAFT END	
TURBOCHARGER	3. 5001	BEARING THRUST	1. 7030
V		WASHER, CRANKSHAFT MAIN BEARING THRUST	1. 3100
VALVE ASSY., AIR HEATER PUMP SUPPLY		WASHER, FLEXIBLE SHAFT TIP RETAINING	12. 8510
SHUTOFF	7. 8295	WASHER, FORWARD CLUTCH CYLINDER THRUST	9. 1224
VALVE ASSY., BLOWER (MINI-BYPASS)	3. 4144	WASHER, FUEL PIPE CONNECTOR	2. 4050
VALVE ASSY., FUEL PUMP	2. 2130	WASHER, GOVERNOR SHUTDOWN SHAFT	2. 7145
VALVE ASSY., FUEL PUMP CHECK	2. 2035	WASHER, GOVERNOR THROTTLE SHAFT	2. 7140
VALVE ASSY., GOVERNOR RELIEF	2. 8630	WASHER, PLANETARY GEAR THRUST	9. 1085
VALVE ASSY., HYDRAULIC STARTER ASSY.		WASHER, REDUCTION GEAR PLANETARY GEAR	
CONTROL	12. 6516	THRUST	9. 1293
VALVE ASSY., INJECTOR	2. 1240	WASHER, THROTTLE CONTROL TUBE BRAKE	2. 9105
VALVE ASSY., MASTER CYLINDER CHECK	12. 6816	WATER CONNECTIONS	
VALVE ASSY., OVERSPEED	7. 4725	WATER HEATER, KIM HOT-START	12. 6403
VALVE ASSY., SELECTOR	9. 1135	WATER PUMP	5. 1000
VALVE KIT, GOVERNOR RELIEF	2. 8635	WEIGHT AND CARRIER ASSY., OVERSPEED TRIP	
VALVE KIT, INJECTOR	2. 1238	GOVERNOR	7. 4623
VALVE MECHANISM	1. 8000	WEIGHT ASSY., GOVERNOR	8. 3405
VALVE, AIR CYLINDER CONTROL	2. 9859	WEIGHT, FRONT BALANCE	1. 7140
VALVE, AIR HEATER PUMP-OUTLET	7. 8280	WEIGHT, GOVERNOR	2. 7390
VALVE, AIR INLET HOUSING SHUTDOWN	3. 3040	WEIGHT, OVERSPEED TRIP GOVERNOR	7. 4625
VALVE, AIR SHUTDOWN	3. 4421	WEIGHT, REAR BALANCE	1. 7190
VALVE, AUTOMATIC SHUTDOWN AND ALARM		WHEEL, TURBOCHARGER COMPRESSOR	3. 5036
SOLENOID	7. 4652	WIRE ASSY., GENERATOR TO REGULATOR	7. 1630
ALVE, EXHAUST	1. 8310	WIRE, AIR INLET HOUSING SHUTDOWN CONTROL	3. 3250
ALVE, FUEL SUPPLY CHECK	2. 5006	WIRE, AIR SHUT-OFF CONTROL	3. 4429
ALVE, FUEL SYSTEM SHUTOFF	2. 5260	WIRE, AIR SHUTOFF CONTROL-RESET	7. 4525
ALVE, FUEL TANK CHECK	2. 6090	WIRE, GOVERNOR CONTROL	2. 9422
ALVE, GOVERNOR DUAL SPEED CONTROL		WIRE, GOVERNOR MANUAL SHUTDOWN LEVER	2. 7837
SOLENOID	2. 7920	WIRE, STARTING AID CONTROL	12. 6378
ALVE, HYDRAULIC STARTER ACCUMULATOR	12. 6576	WORM, VERNIER THROTTLE CONTROL	2. 9139
ALVE, HYDRAULIC STARTER CONTROL	12. 6518		
ALVE, HYDRAULIC STARTER ENGINE PUMP		Y	
CHECK	12. 6615	YOKE, CLUTCH RELEASE	8. 1275
ALVE, HYDRAULIC STARTER ENGINE PUMP		YOKE, HYDRAULIC STARTER CLUTCH	12. 6508
RELIEF	12. 6620		
ALVE, HYDRAULIC STARTER HAND PUMP			
CHECK	12. 6640		
ALVE, HYDRAULIC STARTER HAND PUMP RELIEF	12. 6635		
ALVE, HYDRAULIC STARTER HAND PUMP			
SHUTOFF	12. 6650		

MODEL INDEXES

MODEL DESCRIPTION CHART IN-LINE ENGINES

5 0 4 3 - 5 1 0 0

SERIES 53	NUMBER OF CYLINDERS	APPLICATION DESIGNATION (see below)	BASIC ENGINE ARRANGEMENTS *(see below)	DESIGN VARIATION (see below)	SPECIFIC MODEL NUM AND STARTER-BLOWE ARRANGEMENT
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APPLICATION DESIGNATION

5042-5100 MARINE
5043-5100 FAN TO F/W-INDUSTRIAL
5044-5100 POWER-BASE
5045-5100 GENERATOR
504Z-5100 FAN TO F/W-AUTOMOTIVE

DESIGN VARIATIONS

5043-5000 "N" ENGINE
5043-5100 2 VALVE HEAD
5043-5200 4 VALVE HEAD
5042-2302 TURBOCHARGER

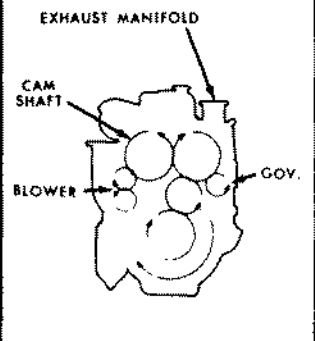
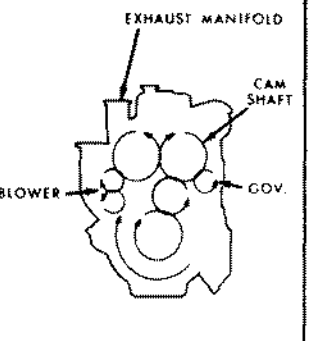
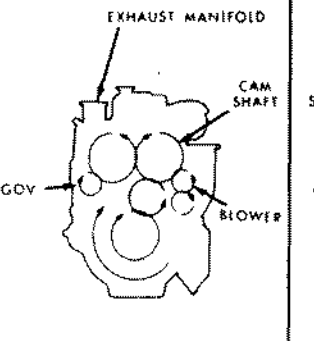
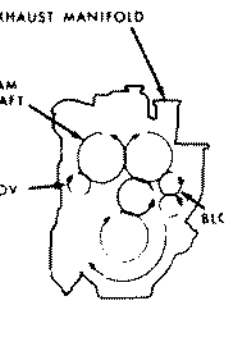
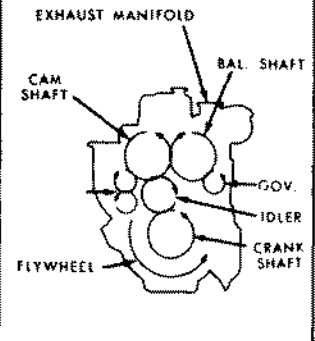
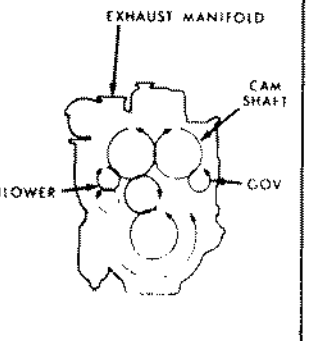
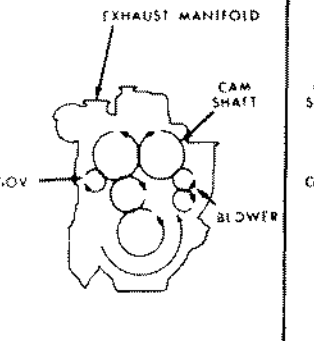
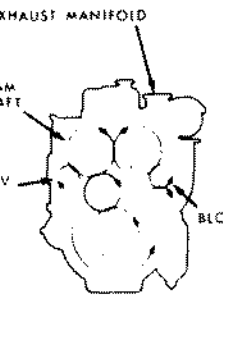
STARTER-BLOWER ARRANGEMENT

Odd number in last digit
designates starter opposite blower.
Even number in last digit
designates starter same side as blower.

*2, 3, 4-53 BASIC ENGINE ARRANGEMENTS

Rotation: L (left) and R (right) designates
rotation viewed from the front of the
engine.

Type: A-B-C-D designates location of
exhaust manifold and blower
as viewed from the rear (flywheel) end.

 LA (XXXX-1XXX)	 LB (XXXX-2XXX)	 LC (XXXX-3XXX)	 LD (XXXX-4XXX)
 RA (XXXX-5XXX)	 RB (XXXX-6XXX)	 RC (XXXX-7XXX)	 RD (XXXX-8XXX)

ALL VIEWS FROM FLYWHEEL (REAR) END OF ENGINE
ENGINE ROTATION DETERMINED BY VIEWING ENGINE FROM BALANCE WEIGHT COVER (FRONT) END

MODEL DESCRIPTION CHART V-TYPE ENGINES

5 0 6 2 - 7 2 0 0

SERIES 53	NUMBER OF CYLINDERS	APPLICATION DESIGNATION (see below)	BASIC ENGINE ARRANGEMENTS (see below)	DESIGN VARIATION (see below)	SPECIFIC MODEL NUMBER
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APPLICATION DESIGNATION

5062-7200 MARINE
5063-7200 FAN TO F/W-INDUSTRIAL
5064-7200 POWER-BASE
5065-7200 GENERATOR
5067-7200 FAN TO F/W-AUTOMOTIVE

DESIGN VARIATIONS

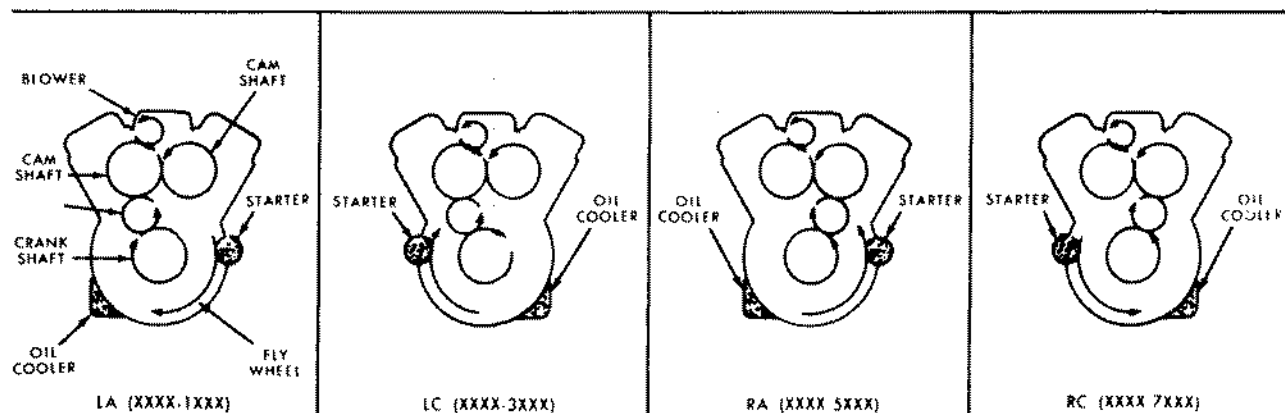
5063-7000 "N" ENGINE
5063-7200 4 VALVE HEAD
5063-5397 TURBOCHARGED

BASIC ENGINE ARRANGEMENTS:

Rotation: L (left) and R (right) designates rotation viewed from the front of engine.

Type: A-B-C-D designates location of starter and oil cooler as viewed from the rear (flywheel) end.

Cylinder Bank: Left and right cylinder banks are determined from rear of engine.



ALL VIEWS FROM FLYWHEEL (REAR) END OF ENGINE
ENGINE ROTATION DETERMINED BY VIEWING ENGINE FROM BALANCE WEIGHT COVER (FRONT) END

5020-7101	2-53 2 VALVE HEAD (DISTRIBUTOR EXCHANGE UNIT)
5023-5101	2-53 2 VALVE HEAD, STARTER ON RIGHT
5023-5103	2-53 2 VALVE HEAD, STARTER ON RIGHT, REEFER CAR APPLICATION
5023-5104	2-53 2 VALVE HEAD, STARTER ON LEFT, REEFER CAR APPLICATION
5023-6100	2-53 2 VALVE HEAD, STARTER ON LEFT
5023-7100	2-53 2 VALVE HEAD, STARTER ON RIGHT
5023-7101	2-53 2 VALVE HEAD, STARTER ON LEFT
5023-7121	2-53 2 VALVE HEAD, FOR JOHN DEERE TRACTOR
5023-8101	2-53 2 VALVE HEAD, STARTER ON LEFT
5024-5101	2-53 2 VALVE HEAD, STARTER ON RIGHT
5024-7101	2-53 2 VALVE HEAD, STARTER ON LEFT
5024-8100	2-53 2 VALVE HEAD, STARTER ON RIGHT, HEAT EXCHANGER COOLED
5025-7101	2-53 2 VALVE HEAD, STARTER ON LEFT
5025-8100	2-53 2 VALVE HEAD, STARTER ON RIGHT, HEAT EXCHANGER COOLED

5030-7000	3-53 N ENGINE (DISTRIBUTOR EXCHANGE UNIT)
5032-2002	3-53 N ENGINE, STARTER ON LEFT, INCLINED PORT
5032-2202	3-53 4 VALVE HEAD, STARTER ON LEFT, INCLINED PORT
5032-4000	3-53 N ENGINE, STARTER ON RIGHT, STARBOARD
5032-4050	3-53 4 VALVE MARINE PROPULSION STARBOARD UNIT
5032-4100	3-53 2 VALVE HEAD, STARTER ON RIGHT, STARBOARD
5032-4200	3-53 4 VALVE HEAD, STARTER ON RIGHT, STARBOARD
5032-6000	3-53 N ENGINE, STARTER ON LEFT, PORT
5032-6050	3-53 4 VALVE MARINE PROPULSION PORT UNIT
5032-6100	3-53 2 VALVE HEAD, STARTER ON LEFT, PORT
5032-6200	3-53 4 VALVE HEAD, STARTER ON LEFT, PORT
5032-7001	3-53 4 VALVE HEAD, STARTER ON LEFT
5032-8002	3-53 N ENGINE, STARTER ON RIGHT, INCLINED STARBOARD
5032-8202	3-53 4 VALVE HEAD, STARTER ON RIGHT, INCLINED STARBOARD
5033-3001	3-53 4 VALVE HEAD, STARTER ON LEFT
5033-4002	3-53 4 VALVE HEAD, STARBOARD
5033-5001	3-53 N ENGINE STARTER ON RIGHT
5033-5008	3-53 N ENGINE 4 VALVE HEAD, STARTER ON LEFT
5033-5050	3-53 4 VALVE HEAD, BRASIL
5033-5051	3-53 4 VALVE HEAD, BRASIL
5033-5098	3-53 4 VALVE HEAD, STARTER ON LEFT
5033-5100	3-53 2 VALVE HEAD, STARTER ON LEFT
5033-5101	3-53 2 VALVE HEAD, STARTER ON RIGHT
5033-5108	3-53 2 VALVE HEAD, STARTER ON RIGHT
5033-5200	3-53 4 VALVE HEAD, STARTER ON LEFT
5033-5201	3-53 4 VALVE HEAD, STARTER ON RIGHT
5033-5298	3-53 4 VALVE HEAD, STARTER ON LEFT
5033-6002	3-53 4 VALVE HEAD, PORT
5033-6299	3-53 4 VALVE HEAD, STARTER ON LEFT
5033-7000	3-53 4 VALVE HEAD, STARTER ON RIGHT
5033-7001	3-53 4 VALVE HEAD, STARTER ON LEFT
5033-7007	3-53 4 VALVE INDUSTRIAL FAN TO FLYWHEEL
5033-7008	3-53 4 VALVE HEAD, STARTER ON LEFT
5033-7030	3-53 N ENGINE, STARTER ON RIGHT
5033-7032	3-53 4-VALVE FAN TO FLYWHEEL
5033-7050	3-53 4 VALVE HEAD, BRASIL
5033-7051	3-53 4 VALVE INDUSTRIAL FAN TO FLYWHEEL
5033-7098	3-53 4 VALVE HEAD, STARTER ON RIGHT
5033-7101	3-53 2 VALVE HEAD, STARTER ON LEFT
5033-7103	3-53 2 VALVE HEAD, STARTER ON LEFT
5033-7105	3-53 2 VALVE HEAD, STARTER ON LEFT
5033-7107	3-53 2 VALVE HEAD, STARTER ON LEFT
5033-7108	3-53 2 VALVE HEAD, STARTER ON LEFT
5033-7132	3-53 2 VALVE HEAD, STARTER ON LEFT
5033-7200	3-53 4 VALVE HEAD, STARTER ON RIGHT
5033-7201	3-53 4 VALVE HEAD, STARTER ON LEFT
5033-7298	3-53 4 VALVE HEAD, STARTER ON LEFT
5033-8001	3-53 4 VALVE HEAD, S & S DIESEL DRIVE MARINE
5033-8101	3-53 2 VALVE HEAD, STARTER ON LEFT
5033-8300	3-53 INDUSTRIAL FAN TO FLYWHEEL TURBO UNIT
5033-8301	3-53 INDUSTRIAL FAN TO FLYWHEEL TURBO UNIT
5033-8302	3-53 INDUSTRIAL FAN TO FLYWHEEL TURBO UNIT
034-5101	3-53 2 VALVE HEAD, STARTER ON RIGHT
034-7098	3-53 4 VALVE HEAD, STARTER ON RIGHT
034-7101	3-53 2 VALVE HEAD, STARTER ON LEFT
034-7201	3-53 4 VALVE HEAD, STARTER ON LEFT
034-7203	3-53 4 VALVE HEAD, STARTER ON LEFT
034-7298	3-53 4 VALVE HEAD, STARTER ON RIGHT
034-8000	3-53N ENGINE, 4 VALVE HEAD, STARTER ON LEFT, HEAT EXCHANGER COOLED
034-8100	3-53 2 VALVE HEAD, STARTER ON RIGHT, HEAT EXCHANGER COOLED

5040-7000	4-53 N ENGINE (DISTRIBUTOR EXCHANGE UNIT)
5042-2002	4-53 N ENGINE, STARTER ON RIGHT, INCLINED PORT
5042-2202	4-53 4 VALVE HEAD, STARTER ON LEFT, INCLINED PORT
5042-2302	4-53 TURBOCHARGED, INCLINED PORT
5042-4000	4-53 N ENGINE, STARTER ON RIGHT, STARBOARD
5042-4050	4-53 4 VALVE MARINE PROPULSION STARBOARD UNIT
5042-4100	4-53 2 VALVE HEAD, STARTER ON RIGHT, STARBOARD
5042-4200	4-53 4 VALVE HEAD, STARTER ON RIGHT, STARBOARD
5042-6000	4-53 N ENGINE, STARTER ON LEFT, PORT
5042-6050	4-53 4 VALVE MARINE PROPULSION PORT UNIT
5042-6100	4-53 2 VALVE HEAD, STARTER ON LEFT, PORT
5042-6200	4-53 4 VALVE HEAD, STARTER ON LEFT, PORT
5042-8002	4-53 N ENGINE, STARTER ON RIGHT, INCLINED STARBOARD
5042-8202	4-53 4 VALVE HEAD, STARTER ON RIGHT, INCLINED STARBOARD
5042-8302	4-53 TURBOCHARGED, INCLINED STARBOARD
5043-5001	4-53 N ENGINE, STARTER ON RIGHT
5043-5021	4-53 N ENGINE, STARTER ON RIGHT, OLIVER 1900 TRACTOR
5043-5050	4-53 4 VALVE HEAD, BRASIL
5043-5081	4-53 4 VALVE FAN TO FLYWHEEL INDUSTRIAL UNIT
5043-5101	4-53 2 VALVE HEAD, STARTER ON RIGHT
5043-5102	4-53 2 VALVE HEAD, STARTER ON LEFT, FOR AIR COMP. APPLICATION
5043-5121	4-53 2 VALVE HEAD, OLIVER 1900 TRACTOR
5043-5198	4-53 2 VALVE HEAD, STARTER ON RIGHT
5043-5200	4-53 4 VALVE HEAD, STARTER ON LEFT
5043-5201	4-53 4 VALVE HEAD, STARTER ON RIGHT
5043-5221	4-53 4 VALVE HEAD, OLIVER 1900 TRACTOR
5043-5340	4-53 INDUSTRIAL FAN TO FLYWHEEL TURBO UNIT
5043-7000	4-53 N ENGINE, STARTER ON RIGHT
5043-7001	4-53 N ENGINE, STARTER ON RIGHT
5043-7002	4-53 INDUSTRIAL FAN TO FLYWHEEL
5043-7005	4-53 4 VALVE INDUSTRIAL FAN TO FLYWHEEL
5043-7008	4-53 4 VALVE HEAD, STARTER ON LEFT
5043-7032	4-53 4 VALVE FAN TO FLYWHEEL
5043-7050	4-53 4 VALVE HEAD, BRASIL
5043-7051	4-53 4 VALVE HEAD, BRASIL
5043-7098	4-53 4 VALVE HEAD, STARTER ON RIGHT
5043-7101	4-53 2 VALVE HEAD, STARTER ON LEFT
5043-7105	4-53 2 VALVE HEAD, STARTER ON LEFT
5043-7108	4-53 2 VALVE HEAD, STARTER ON LEFT
5043-7132	4-53 2 VALVE HEAD, STARTER ON LEFT
5043-7200	4-53 4 VALVE HEAD, STARTER ON RIGHT
5043-7201	4-53 4 VALVE HEAD, STARTER ON LEFT
5043-7298	4-53 4 VALVE HEAD, STARTER ON RIGHT
5043-8000	4-53 4 VALVE HEAD, STARTER ON RIGHT
5043-8001	4-53 4 VALVE HEAD, S & S DIESEL DRIVE MARINE
5043-8301	4-53 4 VALVE HEAD, TURBOCHARGED
5043-8341	4-53 T FAN TO FLYWHEEL TURBOCHARGED UNIT
5043-8399	4-53 INDUSTRIAL FAN TO FLYWHEEL TURBOCHARGED
5044-5101	4-53 2 VALVE HEAD, STARTER ON RIGHT
5044-7101	4-53 2 VALVE HEAD, STARTER ON LEFT
5044-7201	4-53 4 VALVE HEAD, STARTER ON LEFT
5044-7203	4-53 4 VALVE HEAD, STARTER ON LEFT, TORQUE CONVERTER
5044-8000	4-53N ENGINE, 4 VALVE HEAD, STARTER ON LEFT, HEAT EXCHANGER COOLED
5044-8100	4-53 2 VALVE HEAD, STARTER ON RIGHT, HEAT EXCHANGER COOLED

060-5000	6V53 N ENGINE, STARTER ON RIGHT, (DISTRIBUTOR EXCHANGE UNIT)
062-3000	6V53 N ENGINE, STARTER ON LEFT, STARBOARD
062-3200	6V53 4 VALVE HEAD, STARTER ON LEFT, STARBOARD
062-7000	6V53 N ENGINE, STARTER ON LEFT, PORT
062-7050	6V53 4-VALVE MARINE PROPULSION PORT UNIT
062-7200	6V53 4 VALVE HEAD, STARTER ON LEFT, PORT
062-7300	6V53 4 VALVE HEAD, MARINE PROP TURBO UNIT
062-7301	6V53 4 VALVE HEAD MARINE PROP. TURBO UNIT
062-7303	6V53 4 VALVE HEAD, MARINE PROPULSION PORT TURBO UNIT
063-5000	6V53 4 VALVE HEAD, STARTER ON RIGHT
063-5001	6V53 4 VALVE HEAD, S & S DIESEL DRIVE MARINE
063-5002	6V53 4 VALVE HEAD, INDUSTRIAL FAN TO FLYWHEEL
063-5030	6V53 N ENGINE, STARTER ON RIGHT
063-5050	6V53 4 VALVE HEAD, BRASIL
063-5080	6V53 FAN TO FLYWHEEL INDUSTRIAL UNIT
063-5096	6V53 FAN TO FLYWHEEL INDUSTRIAL, FOR MILITARY APPLICATION
063-5097	6V53 4 VALVE HEAD, FOR NAPCO SHOET VEHICLE
063-5098	6V53 4 VALVE HEAD, STARTER ON RIGHT (REPOWER UNIT FOR M3 AND M5 HALF TRACK)
063-5099	6V53 4 VALVE HEAD, STARTER ON RIGHT
063-5200	6V53 4 VALVE HEAD, STARTER ON RIGHT
063-5296	6V53 4 VALVE HEAD, STARTER ON RIGHT
063-5299	6V53 4 VALVE HEAD, STARTER ON RIGHT
063-5300	6V53 4 VALVE HEAD, TURBOCHARGED, BRASIL
063-5390	6V53 4 VALVE HEAD, TURBOCHARGED, FOR SWEDISH S-TANK
063-5391	6V53 FAN TO FLYWHEEL TURBOCHARGED STANDARD AND STANDARD OPTION EQUIPMENT
063-5392	6V53 4 VALVE HEAD, TURBOCHARGED, FOR FMC M730 CHAPARRAL RISE VEHICLE
063-5393	6V53 4 VALVE HEAD, TURBOCHARGED US ARMY VEHICLE M113A3
063-5394	6V53 4 VALVE HEAD, FOR PERSONNEL CARRIER
063-5395	6V53 4 VALVE HEAD, TURBOCHARGED, FOR M-551 SHERIDAN TANK
063-5396	6V53 4 VALVE HEAD, TURBOCHARGED, FOR ARMED INFANTRY FIGHTING VEHICLE
063-5397	6V53 4 VALVE HEAD, STARTER ON RIGHT (REPOWER UNIT FOR M-24)
063-5398	6V53 4 VALVE HEAD, STARTER ON RIGHT, TURBOCHARGED
063-5399	6V53 4 VALVE HEAD, STARTER ON RIGHT
063-7000	6V53 4 VALVE HEAD, STARTER ON LEFT
063-7200	6V53 4 VALVE HEAD, STARTER ON LEFT
064-5200	6V53 4 VALVE HEAD, STARTER ON LEFT
082-5000	8V53 N ENGINE, STARTER ON RIGHT, PORT OR STARBOARD
083-5000	8V53 N ENGINE, STARTER ON RIGHT
083-5399	8V53-4 VALVE HEAD, TURBOCHARGED, U.S. MARINE CORP.

DETROIT DIESEL 53 MPC ENGINES

5020-71

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.
CYLINDER BLOCK	1.1000
AIR BOX DRAINS	1.1000A
CYLINDER HEAD	1.2000
ENGINE LIFTER BRACKET	1.2000A
CRANKSHAFT	1.3000
CRANKSHAFT FRONT COVER	1.3000A
FLYWHEEL HOUSING	1.5000A
CONNECTING ROD AND PISTON	1.6000
CAMSHAFT AND GEAR TRAIN	1.7000
VALVE OPERATING MECHANISM	1.8000
ROCKER COVER	1.8000A
FUEL INJECTOR	2.1000A
FUEL PUMP	2.2000
FUEL MANIFOLD CONNECTIONS	2.4000
MECHANICAL GOVERNOR	2.7000A
INJECTOR CONTROLS	2.9000
BLOWER THRU 2D-20910	3.4000
BLOWER EFF. WITH 2D-20911	3.4000
OIL PUMP	4.1000A
OIL DISTRIBUTION SYSTEM	4.1000B
OIL PRESSURE REGULATOR	4.1000C
OIL COOLER	4.4000A
OIL FILLER	4.5000A
DIPSTICK	4.6000A
OIL PAN	4.7000A
VENTILATING SYSTEM	4.8000A
FRESH WATER PUMP	5.1000
WATER OUTLET	5.2000A
THERMOSTAT	5.2000B
WATER BY-PASS TUBE	5.2000C
WATER CONNECTIONS	5.3000B

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	28
AIR BOX DRAINS	1.1000A	32
CYLINDER HEAD	1.2000	21
ENGINE LIFTER BRACKET	1.2000A	42
CRANKSHAFT	1.3000	19
CRANKSHAFT FRONT COVER	1.3000A	48
CRANKSHAFT PULLEY STD. EQUIP. PRIOR TO 2D-13049	1.3000C	111
CRANKSHAFT PULLEY BELT	1.3000D	91
LYWHEEL	1.4000A	296
LYWHEEL HOUSING	1.5000A	185
CONNECTING ROD AND PISTON	1.6000	25
CRANKSHAFT AND GEAR TRAIN	1.7000	30
VALVE OPERATING MECHANISM	1.8000	28
ROCKER COVER	1.8000A	37
FUEL INJECTOR	2.1000A	40
FUEL PUMP THRU 2D-31198	2.2000	34
FUEL PUMP EFF. WITH 2D-31199	2.2000	136
FUEL FILTER	2.3000A	157
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES	2.5000A	415
MECHANICAL GOVERNOR	2.7000A	595
INJECTOR CONTROLS	2.9000	94
THROTTLE CONTROLS	2.9000A	504
LOWER	3.4000	132
OIL PUMP	4.1000A	53
OIL DISTRIBUTION SYSTEM	4.1000B	170
OIL PRESSURE REGULATOR	4.1000C	9
OIL FILTER	4.2000A	226
OIL COOLER	4.4000A	275
OIL FILLER	4.5000A	18
PISTON STD. EQUIP. PRIOR TO 2D-11552	4.6000A	285
OIL PAN	4.7000A	604
VENTILATING SYSTEM	4.8000A	196
FRESH WATER PUMP THRU 2D-27074	5.1000	39
FRESH WATER PUMP EFF. WITH 2D-27075	5.1000	146
WATER OUTLET	5.2000A	67
THERMOSTAT	5.2000B	72
WATER BY-PASS TUBE THRU 2D-27074	5.2000C	130
WATER BY-PASS TUBE EFF. WITH 2D-27075	5.2000C	318
WATER CONNECTIONS	5.3000B	117
RADIATOR	5.4000A	926
EXHAUST MANIFOLD	6.1000A	416
EXHAUST MUFFLER CONNECTIONS	6.2000A	173
BATTERY CHARGING GENERATOR	7.1000A	1193
STARTING MOTOR	7.3000A	188
INSTRUMENTS	7.4000A	372

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.
CYLINDER BLOCK	1.1000
AIR BOX DRAINS	1.1000A
CYLINDER HEAD	1.2000
ENGINE LIFTER BRACKET	1.2000A
CRANKSHAFT	1.3000
CRANKSHAFT FRONT COVER	1.3000A
CRANKSHAFT PULLEY	1.3000C
CRANKSHAFT PULLEY BELT	1.3000D
FLYWHEEL	1.4000A
FLYWHEEL HOUSING	1.5000A
CONNECTING ROD AND PISTON	1.6000
CAMSHAFT AND GEAR TRAIN	1.7000
BALANCE WEIGHT COVER	1.7000A
VALVE OPERATING MECHANISM	1.8000
ROCKER COVER	1.8000A
FUEL INJECTOR	2.1000A
FUEL PUMP	2.2000
FUEL FILTER	2.3000A
FUEL MANIFOLD CONNECTIONS	2.4000
FUEL LINES	2.5000A
MECHANICAL GOVERNOR	2.7000A
INJECTOR CONTROLS	2.9000
BLOWER	3.4000
OIL PUMP	4.1000A
OIL DISTRIBUTION SYSTEM	4.1000B
OIL PRESSURE REGULATOR	4.1000C
OIL FILTER	4.2000A
OIL FILTER LINES	4.3000A
OIL COOLER	4.4000A
OIL PAN	4.7000A
VENTILATING SYSTEM	4.8000A
FRESH WATER PUMP	5.1000
WATER OUTLET ELBOW	5.2000A
THERMOSTAT	5.2000B
WATER BY-PASS TUBE	5.2000C
WATER CONNECTIONS	5.3000B
FAN	5.4000A
EXHAUST MANIFOLD	6.1000A
EXHAUST MUFFLER CONNECTIONS	6.2000A
BATTERY CHARGING GENERATOR	7.1000A
STARTING MOTOR	7.3000A
INSTRUMENTS	7.4000A

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	28
AIR BOX DRAINS	1.1000A	44
CYLINDER HEAD	1.2000	21
ENGINE LIFTER BRACKET	1.2000A	42
CRANKSHAFT	1.3000	19
CRANKSHAFT FRONT COVER	1.3000A	49
CRANKSHAFT PULLEY	1.3000C	132
CRANKSHAFT PULLEY BELT	1.3000D	95
FLYWHEEL	1.4000A	300
FLYWHEEL HOUSING	1.5000A	175
CONNECTING ROD AND PISTON	1.6000	29
CAMSHAFT AND GEAR TRAIN	1.7000	30
VALVE OPERATING MECHANISM	1.8000	28
ROCKER COVER	1.8000A	36
FUEL INJECTOR	2.1000A	41
FUEL PUMP	2.2000	34
FUEL MANIFOLD CONNECTIONS	2.4000	48
MECHANICAL GOVERNOR	2.7000A	554
INJECTOR CONTROLS	2.9000	94
BLOWER	3.4000	71
OIL PUMP	4.1000A	53
OIL DISTRIBUTION SYSTEM	4.1000B	173
OIL PRESSURE REGULATOR	4.1000C	8
VENTILATING SYSTEM	4.8000A	195
FRESH WATER PUMP	5.1000	60
WATER OUTLET THRU 2D-12822	5.2000A	70
WATER OUTLET EFF. WITH 2D-12823	5.2000A	80
THERMOSTAT	5.2000B	72
WATER BY-PASS TUBE	5.2000C	171
WATER CONNECTIONS	5.3000B	118
FAN	5.4000A	288
EXHAUST MANIFOLD	6.1000A	131
EXHAUST MUFFLER CONNECTIONS	6.2000A	173
STARTING MOTOR	7.3000A	170

DETROIT DIESEL 53 MPC ENGINES

5023-6

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.
CYLINDER BLOCK	1.1000
AIR BOX DRAINS	1.1000A
CYLINDER HEAD	1.2000
ENGINE LIFTER BRACKET	1.2000A
CRANKSHAFT	1.3000
CRANKSHAFT FRONT COVER	1.3000A
CRANKSHAFT PULLEY	1.3000C
CRANKSHAFT PULLEY BELT	1.3000D
FLYWHEEL	1.4000A
FLYWHEEL HOUSING	1.5000A
CONNECTING ROD AND PISTON	1.6000
CAMSHAFT AND GEAR TRAIN	1.7000
VALVE OPERATING MECHANISM	1.8000
ROCKER COVER	1.8000A
FUEL INJECTOR	2.1000A
FUEL PUMP	2.2000
FUEL FILTER	2.3000A
FUEL MANIFOLD CONNECTIONS	2.4000
FUEL LINES	2.5000A
MECHANICAL GOVERNOR	2.7000A
INJECTOR CONTROLS	2.9000
AIR INLET HOUSING	3.3000A
BLOWER	3.4000
OIL PUMP	4.1000A
OIL DISTRIBUTION SYSTEM	4.1000B
OIL PRESSURE REGULATOR	4.1000C
OIL FILTER	4.2000A
OIL FILTER LINES	4.3000A
OIL COOLER	4.4000A
OIL FILLER	4.5000A
DIPSTICK	4.6000A
OIL PAN	4.7000A
VENTILATING SYSTEM	4.8000A
FRESH WATER PUMP	5.1000
WATER OUTLET ELBOW	5.2000A
THERMOSTAT	5.2000B
WATER BY-PASS TUBE	5.2000C
WATER CONNECTIONS	5.3000B
FAN	5.4000A
EXHAUST MANIFOLD	6.1000A
BATTERY CHARGING GENERATOR	7.1000A
STARTING MOTOR	7.3000A

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	28
CRANK BOX DRAINS	1.1000A	44
CYLINDER HEAD	1.2000	21
ENGINE LIFTER BRACKET	1.2000A	41
CRANKSHAFT	1.3000	19
CRANKSHAFT FRONT COVER	1.3000A	48
CRANKSHAFT PULLEY STD. EQUIP. THRU 2D-13048	1.3000C	111
CRANKSHAFT PULLEY BELT	1.3000D	91
LYWHEEL	1.4000A	296
LYWHEEL HOUSING	1.5000A	178
CONNECTING ROD AND PISTON	1.6000	25
CRANKSHAFT AND GEAR TRAIN	1.7000	30
VALVE OPERATING MECHANISM	1.8000	28
ROCKER COVER	1.8000A	37
FUEL INJECTOR STD. EQUIP. THRU 2D-14181	2.1000A	40
FUEL PUMP	2.2000	33
FUEL FILTER	2.3000A	157
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES	2.5000A	388
MECHANICAL GOVERNOR	2.7000A	596
INJECTOR CONTROLS	2.9000	88
THROTTLE CONTROLS	2.9000A	504
LOWER THRU 2D-20910	3.4000	68
LOWER EFF. WITH 2D-20911	3.4000	120
OIL PUMP	4.1000A	53
OIL DISTRIBUTION SYSTEM	4.1000B	351
OIL PRESSURE REGULATOR	4.1000C	9
OIL FILTER	4.2000A	226
OIL COOLER	4.4000A	275
OIL FILLER	4.5000A	18
IPSTICK STD. EQUIP. THRU 2D-11351	4.6000A	107
IPSTICK	4.6000A	285
OIL PAN	4.7000A	534
VENTILATING SYSTEM	4.8000A	195
FRESH WATER PUMP	5.1000	38
WATER OUTLET ELBOW	5.2000A	67
THERMOSTAT	5.2000B	72
WATER BY-PASS TUBE	5.2000C	130
WATER CONNECTIONS	5.3000B	117
WATER PUMP	5.4000A	926
EXHAUST MANIFOLD	6.1000A	416
EXHAUST MUFFLER CONNECTIONS	6.2000A	173
BATTERY CHARGING GENERATOR	7.1000A	1186
STARTING MOTOR	7.3000A	174
INSTRUMENTS	7.4000A	372

DETROIT DIESEL 53 MPC ENGINES

5023-7

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.
CYLINDER BLOCK	1.1000
AIR BOX DRAINS	1.1000A
CYLINDER HEAD	1.2000
ENGINE LIFTER BRACKET	1.2000A
CRANKSHAFT	1.3000
CRANKSHAFT FRONT COVER	1.3000A
CRANKSHAFT PULLEY STD. EQUIP. PRIOR TO 2D-10349	1.3000C
CRANKSHAFT PULLEY BELT	1.3000D
FLYWHEEL	1.4000A
FLYWHEEL HOUSING	1.5000A
CONNECTING ROD AND PISTON	1.6000
CAMSHAFT AND GEAR TRAIN	1.7000
VALVE OPERATING MECHANISM	1.8000
ROCKER COVER	1.8000A
FUEL INJECTOR STD. EQUIP. PRIOR TO 2D-13166	2.1000A
FUEL PUMP THRU 2D-31196	2.2000
FUEL PUMP EFF. WITH 2D-31199	2.2000
FUEL FILTER STD. EQUIP. PRIOR TO 2D-12594	2.3000A
FUEL MANIFOLD CONNECTIONS	2.4000
FUEL LINES STD. EQUIP. PRIOR TO 2D-12594	2.5000A
MECHANICAL GOVERNOR	2.7000A
INJECTOR CONTROLS	2.9000
THROTTLE CONTROLS	2.9000A
BLOWER	3.4000
OIL PUMP	4.1000A
OIL DISTRIBUTION SYSTEM	4.1000B
OIL PRESSURE REGULATOR	4.1000C
OIL FILTER	4.2000A
OIL COOLER	4.4000A
OIL FILLER	4.5000A
DIPSTICK STD. EQUIP. PRIOR TO 2D-11552	4.6000A
DIPSTICK	4.6000A
OIL PAN	4.7000A
VENTILATING SYSTEM	4.8000A
FRESH WATER PUMP	5.1000
WATER OUTLET MANIFOLD STD. EQUIP. PRIOR TO 2D-3404	5.2000A
THERMOSTAT	5.2000B
WATER BY-PASS TUBE	5.2000C
WATER CONNECTIONS STD. EQUIP. PRIOR TO 2D-2357	5.3000B
FAN	5.4000A
EXHAUST MANIFOLD	6.1000A
EXHAUST MUFFLER CONNECTIONS	6.2000A
BATTERY CHARGING GENERATOR	7.1000A
STARTING MOTOR	7.3000A
INSTRUMENTS	7.4000A

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
YLINDER BLOCK	1.1000	33
IR BOX DRAINS THRU 2D-5160	1.1000A	32
IR BOX DRAINS EFF. WITH 2D-5161	1.1000A	44
YLINDER HEAD	1.2000	30
RANKSHAFT	1.3000	19
RANKSHAFT FRONT COVER	1.3000A	49
RANKSHAFT PULLEY THRU 2D-868	1.3000C	112
RANKSHAFT PULLEY EFF. WITH 2D-869 AND THRU 2D-3782	1.3000C	124
RANKSHAFT PULLEY EFF. WITH 2D-3783	1.3000C	132
RANKSHAFT PULLEY BELT THRU 2D-6717	1.3000D	95
RANKSHAFT PULLEY BELT EFF. WITH 2D-6718	1.3000D	102
LYWHEEL HOUSING	1.5000A	181
ONNECTING ROD AND PISTON	1.6000	29
AMSHAFT AND GEAR TRAIN THRU 2D-6717	1.7000	37
AMSHAFT AND GEAR TRAIN EFF. WITH 2D-6718	1.7000	49
ALVE OPERATING MECHANISM	1.8000	28
OCKER COVER	1.8000A	42
JEL INJECTOR	2.1000A	41
JEL PUMP	2.2000	36
JEL FILTER	2.3000A	161
JEL MANIFOLD CONNECTIONS	2.4000	48
JEL LINES	2.5000A	383
IECHANICAL GOVERNOR	2.7000A	452
IJECTOR CONTROLS	2.9000	103
LOWER THRU 2D-20909	3.4000	64
LOWER EFF. WITH 2D-20910	3.4000	110
IL PUMP	4.1000A	53
IL DISTRIBUTION SYSTEM	4.1000B	173
IL PRESSURE REGULATOR	4.1000C	8
IL FILTER	4.2000A	111
IL FILLER	4.5000A	45
IPSTICK THRU 2D-3325	4.6000A	114
IPSTICK EFF. WITH 2D-3326	4.6000A	141
IL PAN	4.7000A	110
ENTILATING SYSTEM	4.8000A	201
RESH WATER PUMP THRU 2D-6717	5.1000	40
RESH WATER PUMP EFF. WITH 2D-6718	5.1000	54
ATER OUTLET ELBOW	5.2000A	69
HERMOSTAT	5.2000B	73
ATER BY-PASS TUBE	5.2000C	133
ATER CONNECTIONS	5.3000B	118
AN THRU 2D-6717	5.4000A	288
AN EFF. WITH 2D-6718	5.4000A	308
HAUST MANIFOLD	6.1000A	121
ARTING MOTOR THRU 2D-303	7.3000A	178
ARTING MOTOR EFF. WITH 2D-304 AND THRU 2D-14551	7.3000A	190
ARTING MOTOR EFF. WITH 2D-14552. STD. EQUIP. PRIOR TO 2D-21332	7.3000A	249

DETROIT DIESEL 53 MPC ENGINES

5023-81

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.
CYLINDER BLOCK	1.1000
AIR BOX DRAINS	1.1000A
CYLINDER HEAD	1.2000
ENGINE LIFTER BRACKET	1.2000A
CRANKSHAFT	1.3000
CRANKSHAFT FRONT COVER	1.3000A
CRANKSHAFT PULLEY	1.3000C
CRANKSHAFT PULLEY BELT	1.3000D
FLYWHEEL	1.4000A
FLYWHEEL HOUSING	1.5000A
CONNECTING ROD AND PISTON	1.6000
CAMSHAFT AND GEAR TRAIN	1.7000
VALVE OPERATING MECHANISM	1.8000
ROCKER COVER	1.8000A
FUEL INJECTOR	2.1000A
FUEL PUMP	2.2000
FUEL FILTER	2.3000A
FUEL MANIFOLD CONNECTIONS	2.4000
FUEL LINES	2.5000A
MECHANICAL GOVERNOR	2.7000A
INJECTOR CONTROLS	2.9000
THROTTLE CONTROLS	2.9000A
AIR INLET HOUSING	3.3000A
BLOWER THRU 2D-20909	3.4000
BLOWER EFF. WITH 2D-20910	3.4000
OIL PUMP	4.1000A
OIL DISTRIBUTION SYSTEM	4.1000B
OIL PRESSURE REGULATOR	4.1000C
OIL FILTER	4.2000A
OIL COOLER	4.4000A
OIL FILLER	4.5000A
DIPSTICK	4.6000A
OIL PAN	4.7000A
VENTILATING SYSTEM	4.8000A
FRESH WATER PUMP	5.1000
WATER OUTLET ELBOW	5.2000A
THERMOSTAT	5.2000B
WATER BY-PASS TUBE	5.2000C
WATER CONNECTIONS	5.3000B
FAN	5.4000A
EXHAUST MANIFOLD	6.1000A
EXHAUST MUFFLER CONNECTIONS	6.2000A
STARTING MOTOR	7.3000A
INSTRUMENTS	7.4000A

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
YLINDER BLOCK	1.1000	28
IR BOX DRAINS	1.1000A	32
YLINDER HEAD	1.2000	21
NGINE LIFTER BRACKET	1.2000A	42
RANKSHAFT	1.3000	19
RANKSHAFT FRONT COVER	1.3000A	48
RANKSHAFT PULLEY	1.3000C	111
RANKSHAFT PULLEY BELT	1.3000D	91
YWHEEL (10" CLUTCH)	1.4000A	327
YWHEEL (DELCO POWER GENERATOR)	1.4000A	300
YWHEEL (TWIN DISC C111 CLUTCH OR ROCKFORD PTO 31120)	1.4000A	325
YWHEEL (LIPE ROLLWAY 13 ML CLUTCH)	1.4000A	326
YWHEEL (ROCKFORD 14" TT CLUTCH)	1.4000A	328
YWHEEL (10" CLUTCH)	1.4000A	305
YWHEEL (ROCKFORD 11" TT CLUTCH)	1.4000A	324
YWHEEL HOUSING	1.5000A	205
YWHEEL HOUSING	1.5000A	207
YWHEEL HOUSING	1.5000A	330
ONNECTING ROD AND PISTON	1.6000	25
AMSHAFT AND GEAR TRAIN	1.7000	30
CESSORY DRIVE (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE)	1.7000B	60
ALVE OPERATING MECHANISM	1.8000	28
OCKER COVER (WITH OIL FILLER)	1.8000A	37
OCKER COVER	1.8000A	36
JEL INJECTOR	2.1000A	40
JEL INJECTOR	2.1000A	47
JEL PUMP	2.2000	34
JEL FILTER	2.3000A	157
JEL MANIFOLD CONNECTIONS	2.4000	48
JEL LINES	2.5000A	415
IECHANICAL GOVERNOR (LIMITING SPEED)	2.7000A	589
IECHANICAL GOVERNOR (VARIABLE SPEED, OPEN LINKAGE WITH BOOSTER SPRING)	2.7000A	595
IECHANICAL GOVERNOR (VARIABLE SPEED, CLOSED LINKAGE)	2.7000A	600
YDRAULIC GOVERNOR	2.8000A	555
IJECTOR CONTROLS	2.9000	94
HROTTLER CONTROLS (LIMITING SPEED)	2.9000A	496
HROTTLER CONTROLS (VARIABLE SPEED, OPEN LINKAGE)	2.9000A	511
HROTTLER CONTROLS (VARIABLE SPEED, CLOSED LINKAGE)	2.9000A	506
HROTTLER CONTROLS (HYDRAULIC GOVERNOR, FRICTION CONTROLS)	2.9000A	498
HROTTLER CONTROLS (HYDRAULIC GOVERNOR, VERNIER CONTROLS)	2.9000A	569
IR CLEANER (LIGHT DUTY, DIRECT MOUNTED)	3.1000A	225
IR CLEANER (HEAVY DUTY, REAR MOUNTED)	3.1000A	217
IR CLEANER (HEAVY DUTY, WITH COMPLETE HOOD, REAR MOUNTED)	3.1000A	226
LOWER (WITH MANUAL SHUTDOWN)	3.4000	71
LOWER (WITH MECHANICAL SHUTDOWN)	3.4000	69
IL PUMP	4.1000A	53
IL DISTRIBUTION SYSTEM	4.1000B	170
IL PRESSURE REGULATOR	4.1000C	9
IL FILTER THRU 2D-17153	4.2000A	109
IL FILTER EFFECTIVE WITH 2D-17154	4.2000A	226
IL COOLER	4.4000A	275
IL FILLER (ON ROCKER COVER)	4.5000A	18
IL FILLER (ON BREATHER)	4.5000A	54
IPSTICK PRIOR TO 2D-13991	4.6000A	184
IPSTICK EFFECTIVE WITH 2D-13991	4.6000A	285
IL PAN	4.7000A	109
ENTILATING SYSTEM	4.8000A	233
ENTILATING SYSTEM (WITH OIL FILLER)	4.8000A	235
RESH WATER PUMP	5.1000	39
/ATER OUTLET ELBOW	5.2000A	80
HERMOSTAT	5.2000B	72
/ATER BY-PASS TUBE	5.2000C	130
ADIATOR	5.3000A	78
/ATER CONNECTIONS	5.3000B	166
AN (SUCTION 17", 6 BLADE, 1.25:1 RATIO)	5.4000A	292
AN (BLOWER 17", 6 BLADE, 1.25:1 RATIO)	5.4000A	279
KHAUST MANIFOLD (WITH MANUAL OR NO SHUTDOWN)	6.1000A	131

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.
EXHAUST MANIFOLD (WITH MECHANICAL SHUTDOWN)	6.1000A
EXHAUST MUFFLER CONNECTIONS	6.2000A
EXHAUST MUFFLER (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	6.2000A
BATTERY CHARGING GENERATOR	7.1000A
STARTING MOTOR	7.3000A
INSTRUMENT PANEL (TACHOMETER ONLY) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000A
INSTRUMENT PANEL (MOUNTED OPPOSITE BLOWER SIDE)	7.4000A
INSTRUMENT PANEL (MOUNTED ON BLOWER SIDE)	7.4000A
TACHOMETER DRIVE (WITH OIL SEAL, DRIVEN FROM BALANCER SHAFT) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000B
TACHOMETER DRIVE (DRIVEN FROM BALANCER SHAFT) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000B
TACHOMETER DRIVE (DRIVEN FROM GOVERNOR SHAFT) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000B
TACHOMETER DRIVE (DRIVEN FROM BALANCER SHAFT) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000B
MECHANICAL AUTOMATIC SHUTDOWN (WITHOUT OVERSPEED GOVERNOR) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000C
MECHANICAL AUTOMATIC SHUTDOWN (WITH OVERSPEED GOVERNOR) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000C
MECHANICAL AUTOMATIC SHUTDOWN (WITH HYDRAULIC ENGINE GOVERNOR AND OVERSPEED GOVERNOR) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000C
WIRING HARNESS (INSTRUMENTS ON BLOWER SIDE)	7.7000A
WIRING HARNESS (INSTRUMENTS ON SIDE OPPOSITE BLOWER)	7.7000A
POWER TAKE-OFF	8.1000A
ENGINE HOOD (COMPLETE)	10.1000A
ENGINE MOUNTS (FLYWHEEL HOUSING)	11.1000A
ENGINE MOUNTS (FLYWHEEL HOUSING)	11.1000A
ENGINE MOUNTS (FLYWHEEL HOUSING)	11.1000A
ENGINE BASE (WITH FLYWHEEL HOUSING) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	11.1000A
ENGINE BASE (WITH FLYWHEEL HOUSING) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	11.1000A
HYDRAULIC PUMP (MOUNTED ON CAMSHAFT, 14 GPM AT 2000 RPM) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	12.5000A
HYDRAULIC PUMP (MOUNTED ON BALANCE SHAFT, 14 GPM AT 2000 RPM) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	12.5000A
COLD WEATHER STARTING AID (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	12.6000C

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	28
AIR BOX DRAINS	1.1000A	32
CYLINDER HEAD	1.2000	21
ENGINE LIFTER BRACKET	1.2000A	41
CRANKSHAFT	1.3000	19
CRANKSHAFT FRONT COVER	1.3000A	48
CRANKSHAFT PULLEY	1.3000C	111
CRANKSHAFT PULLEY BELT	1.3000D	91
FLYWHEEL	1.4000A	305
FLYWHEEL HOUSING	1.5000A	333
CONNECTING ROD AND PISTON	1.6000	25
CAMSHAFT AND GEAR TRAIN	1.7000	30
VALVE OPERATING MECHANISM	1.8000	28
ROCKER COVER	1.8000A	37
FUEL INJECTOR	2.1000A	40
FUEL PUMP THRU 2D-31198	2.2000	33
FUEL PUMP EFF. WITH 2D-31199	2.2000	127
FUEL FILTER	2.3000A	157
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES	2.5000A	506
MECHANICAL GOVERNOR	2.7000A	596
INJECTOR CONTROLS	2.9000	88
THROTTLE CONTROLS	2.9000A	512
AIR CLEANER	3.1000A	210
BLOWER	3.4000	120
OIL PUMP	4.1000A	53
OIL DISTRIBUTION SYSTEM	4.1000B	170
OIL PRESSURE REGULATOR	4.1000C	9
OIL FILTER THRU 2D-17152	4.2000A	109
OIL FILTER EFF. WITH 2D-17154	4.2000A	226
OIL COOLER	4.4000A	231
OIL FILLER	4.5000A	18
DIPSTICK THRU 2D-11551	4.6000A	107
DIPSTICK EFF. WITH 2D-11552	4.6000A	184
DIPSTICK THRU 2D-13990 AND EFF. WITH 2D-13991	4.6000A	285
OIL PAN THRU 2D-24510	4.7000A	109
OIL PAN EFF. WITH 2D-24511 AND THRU 2D-31765	4.7000A	534
OIL PAN EFF. WITH 2D-31766	4.7000A	604
VENTILATING SYSTEM	4.8000A	234
FRESH WATER PUMP STD. EQUIP. PRIOR TO 2D-27625	5.1000	38
WATER OUTLET MANIFOLD	5.2000A	80
THERMOSTAT	5.2000B	72
WATER BY-PASS TUBE STD. EQUIP. PRIOR TO 2D-27625	5.2000C	130
RADIATOR STD. EQUIP. PRIOR TO 2D-13674	5.3000A	57
RADIATOR	5.3000A	116
WATER CONNECTIONS	5.3000B	144
MAN	5.4000A	929
EXHAUST MANIFOLD	6.1000A	416
EXHAUST MUFFLER CONNECTIONS	6.2000A	173
BATTERY CHARGING GENERATOR	7.1000A	1202
STARTING MOTOR	7.3000A	174
INSTRUMENTS	7.4000A	411
WIRING HARNESS	7.7000A	289
POWER TAKE-OFF	8.1000A	180
ENGINE MOUNTS	11.1000A	359

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	28
AIR BOX DRAINS	1.1000A	44
CYLINDER HEAD	1.2000	21
ENGINE LIFTER BRACKET	1.2000A	43
CRANKSHAFT	1.3000	19
CRANKSHAFT FRONT COVER	1.3000A	48
CRANKSHAFT PULLEY STD. EQUIP. PRIOR TO 2D-11552	1.3000C	111
FLYWHEEL	1.4000A	305
FLYWHEEL HOUSING	1.5000A	330
CONNECTING ROD AND PISTON	1.6000	25
CAMSHAFT AND GEAR TRAIN	1.7000	30
VALVE OPERATING MECHANISM	1.8000	28
ROCKER COVER	1.8000A	37
FUEL INJECTOR	2.1000A	40
FUEL PUMP THRU 2D-31198	2.2000	33
FUEL PUMP EFF. WITH 2D-31199	2.2000	127
FUEL FILTER	2.3000A	157
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES	2.5000A	496
MECHANICAL GOVERNOR VARIABLE SPEED	2.7000A	596
INJECTOR CONTROLS	2.9000	109
THROTTLE CONTROLS	2.9000A	504
AIR CLEANER	3.1000A	241
AIR INLET HOUSING	3.3000A	190
BLOWER THRU 2D-20910	3.4000	69
BLOWER EFF. WITH 2D-20911	3.4000	111
OIL PUMP	4.1000A	53
OIL DISTRIBUTION SYSTEM	4.1000B	170
OIL PRESSURE REGULATOR	4.1000C	9
OIL FILTER	4.2000A	226
OIL COOLER	4.4000A	275
OIL FILLER	4.5000A	18
DIPSTICK THRU 2D-11552	4.6000A	107
DIPSTICK EFF. WITH 2D-11553 AND THRU 2D-13991	4.6000A	184
DIPSTICK EFF. WITH 2D-13992	4.6000A	285
OIL PAN THRU 2D-24510	4.7000A	109
OIL PAN EFF. WITH 2D-24511 AND THRU 2D-31765	4.7000A	534
OIL PAN EFF. WITH 2D-31766	4.7000A	604
VENTILATING SYSTEM	4.8000A	195
FRESH WATER PUMP	5.1000	146
THERMOSTAT	5.2000B	72
WATER BY-PASS TUBE	5.2000C	321
WATER CONNECTIONS	5.3000B	207
HEAT EXCHANGER	5.5000A	304
EXHAUST MANIFOLD THRU 2D-27512	6.1000A	136
EXHAUST MANIFOLD EFF. WITH 2D-27513	6.1000A	401
EXHAUST MUFFLER CONNECTIONS	6.2000A	176
BATTERY CHARGING GENERATOR 12V., 25 AMP., POS. GRD.	7.1000A	1197
STARTING MOTOR	7.3000A	188
INSTRUMENTS	7.4000A	508
WIRING HARNESS	7.7000A	304
POWER TAKE-OFF	8.1000A	180
ENGINE MOUNTS	11.1000A	353

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	28
AIR BOX DRAINS	1.1000A	32
CYLINDER HEAD	1.2000	21
ENGINE LIFTER BRACKET	1.2000A	41
CRANKSHAFT	1.3000	19
CRANKSHAFT FRONT COVER	1.3000A	48
CRANKSHAFT PULLEY	1.3000C	111
CRANKSHAFT PULLEY BELT	1.3000D	91
LYWHEEL	1.4000A	300
LYWHEEL HOUSING	1.5000A	345
CONNECTING ROD AND PISTON	1.6000	25
CRANKSHAFT AND GEAR TRAIN	1.7000	30
VALVE OPERATING MECHANISM	1.8000	28
ROCKER COVER	1.8000A	37
FUEL INJECTOR	2.1000A	47
FUEL PUMP THRU 2D-31198	2.2000	33
FUEL PUMP EFF. WITH 2D-31199	2.2000	127
FUEL FILTER	2.3000A	157
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES	2.5000A	388
HYDRAULIC GOVERNOR	2.8000A	998
INJECTOR CONTROLS	2.9000	88
THROTTLE CONTROLS	2.9000A	572
AIR CLEANER	3.1000A	210
LOWER	3.4000	121
OIL PUMP	4.1000A	53
OIL DISTRIBUTION SYSTEM	4.1000B	170
OIL PRESSURE REGULATOR	4.1000C	9
OIL FILTER THRU 2D-17671	4.2000A	162
OIL FILTER EFF. WITH 2D-17672	4.2000A	258
OIL COOLER	4.4000A	231
OIL FILLER	4.5000A	18
PIPSTICK THRU 2D-13990	4.6000A	184
PIPSTICK EFF. WITH 2D-13991	4.6000A	285
OIL PAN THRU 2D-24510	4.7000A	109
OIL PAN EFF. WITH 2D-24511	4.7000A	534
ENTILATING SYSTEM STD. EQUIP. PRIOR TO 2D-13078	4.8000A	270
FRESH WATER PUMP	5.1000	38
WATER OUTLET MANIFOLD	5.2000A	80
THERMOSTAT	5.2000B	72
WATER BY-PASS TUBE STD. EQUIP. PRIOR TO 2D-13078	5.2000C	318
RADIATOR	5.3000A	116
WATER CONNECTIONS	5.3000B	144
MAN	5.4000A	927
EXHAUST MANIFOLD	6.1000A	416
EXHAUST MUFFLER CONNECTIONS	6.2000A	173
BATTERY CHARGING GENERATOR	7.1000A	1202
STARTING MOTOR	7.3000A	174
INSTRUMENTS	7.4000A	412
AUTOMATIC SHUTDOWN	7.4000C	487
POWER GENERATOR	7.5000A	197
WIRING HARNESS	7.7000A	290
ENGINE MOUNTS	11.1000A	358
ENGINE BASE	11.1000A	429

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.
CYLINDER BLOCK	1.1000
AIR BOX DRAINS	1.1000A
CYLINDER HEAD	1.2000
ENGINE LIFTER BRACKET	1.2000A
CRANKSHAFT	1.3000
CRANKSHAFT FRONT COVER	1.3000A
CRANKSHAFT PULLEY	1.3000C
FLYWHEEL	1.4000A
FLYWHEEL HOUSING	1.5000A
CONNECTING ROD AND PISTON	1.6000
CAMSHAFT AND GEAR TRAIN	1.7000
VALVE OPERATING MECHANISM	1.8000
ROCKER COVER	1.8000A
FUEL INJECTOR	2.1000A
FUEL PUMP THRU 2D-31198	2.2000
FUEL PUMP EFF. WITH 2D-31199	2.2000
FUEL FILTER	2.3000A
FUEL MANIFOLD CONNECTIONS	2.4000
FUEL LINES	2.5000A
HYDRAULIC GOVERNOR	2.8000A
INJECTOR CONTROLS	2.9000
THROTTLE CONTROLS	2.9000A
AIR CLEANER	3.1000A
AIR INLET HOUSING	3.3000A
BLOWER THRU 2D-20910	3.4000
BLOWER EFF. WITH 2D-20911	3.4000
OIL PUMP	4.1000A
OIL DISTRIBUTION SYSTEM	4.1000B
OIL PRESSURE REGULATOR	4.1000C
OIL FILTER THRU 2D-17671	4.2000A
OIL FILTER EFF. WITH 2D-17672	4.2000A
OIL COOLER	4.4000A
OIL FILLER	4.5000A
DIPSTICK THRU 2D-13990	4.6000A
DIPSTICK EFF. WITH 2D-13991	4.6000A
OIL PAN THRU 2D-24510	4.7000A
OIL PAN EFF. WITH 2D-24511 AND THRU 2D-31765	4.7000A
OIL PAN EFF. WITH 2D-31766	4.7000A
VENTILATING SYSTEM	4.8000A
FRESH WATER PUMP THRU 2D-25497	5.1000
FRESH WATER PUMP EFF. WITH 2D-25498	5.1000
THERMOSTAT	5.2000B
WATER BY-PASS TUBE THRU 2D-25497	5.2000C
WATER BY-PASS TUBE EFF. WITH 2D-25498	5.2000C
WATER CONNECTIONS THRU 2D-14462	5.3000B
WATER CONNECTIONS EFF. WITH 2D-14463	5.3000B
HEAT EXCHANGER	5.5000A
EXHAUST MANIFOLD THRU 2D-27512	6.1000A
EXHAUST MANIFOLD EFF. WITH 2D-27513	6.1000A
EXHAUST MUFFLER CONNECTIONS	6.2000A
BATTERY CHARGING GENERATOR 12V., 25 AMP.	7.1000A
STARTING MOTOR	7.3000A
INSTRUMENTS	7.4000A
MECHANICAL SHUTDOWN	7.4000C
POWER GENERATOR	7.5000A
WIRING HARNESS	7.7000A
ENGINE MOUNTS	11.1000A
ENGINE BASE	11.1000A

ETROIT DIESEL 53 MPC ENGINES

5030-7000

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
YLINDER BLOCK	1.1000	29
IR BOX DRAINS	1.1000A	32
YLINDER HEAD	1.2000	23
NGINE LIFTER BRACKET	1.2000A	30
RANKSHAFT	1.3000	20
RANKSHAFT FRONT COVER	1.3000A	48
RANKSHAFT PULLEY	1.3000C	NONE
LYWHEEL	1.4000A	NONE
LYWHEEL HOUSING	1.5000A	199
ONNECTING ROD AND PISTON	1.6000	61
AMSHAFT AND GEAR TRAIN	1.7000	31
ALVE OPERATING MECHANISM	1.8000	30
OCKER COVER	1.8000A	61
UEL INJECTOR	2.1000A	76
UEL PUMP	2.2000	33
UEL FILTER	2.3000A	NONE
UEL MANIFOLD CONNECTIONS	2.4000	48
UEL LINES	2.5000A	NONE
IECHANICAL GOVERNOR	2.7000A	590
IJECTOR CONTROLS	2.9000	89
HROTTLE CONTROLS	2.9000A	NONE
IR INLET HOUSING	3.3000A	NONE
LOWER	3.4000	60
IL PUMP	4.1000A	49
IL DISTRIBUTION SYSTEM	4.1000B	195
IL PRESSURE REGULATOR	4.1000C	9
IL COOLER	4.4000A	276
IL FILLER	4.5000A	18
IPSTICK	4.6000A	275
IL PAN	4.7000A	225
ENTILATING SYSTEM	4.8000A	246
RESH WATER PUMP	5.1000	70
/ATER OUTLET ELBOW	5.2000A	67
HERMOSTAT	5.2000B	72
/ATER BY-PASS TUBE	5.2000C	182
/ATER CONNECTIONS	5.3000B	122

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.
CYLINDER BLOCK	1.1000
AIR BOX DRAINS	1.1000A
CYLINDER HEAD	1.2000
ENGINE LIFTER BRACKET	1.2000A
CRANKSHAFT	1.3000
CRANKSHAFT FRONT COVER	1.3000A
FLYWHEEL	1.4000A
FLYWHEEL HOUSING	1.5000A
CONNECTING ROD AND PISTON	1.6000
CAMSHAFT AND GEAR TRAIN	1.7000
VALVE OPERATING MECHANISM	1.8000
ROCKER COVER	1.8000A
FUEL INJECTOR	2.1000A
FUEL PUMP	2.2000
FUEL FILTER	2.3000A
FUEL MANIFOLD CONNECTIONS	2.4000
FUEL LINES	2.5000A
MECHANICAL GOVERNOR	2.7000A
INJECTOR CONTROLS	2.9000
AIR SILENCER	3.2000A
AIR INLET HOUSING	3.3000A
BLOWER THRU 3D-34007	3.4000
BLOWER EFF. WITH 3D-34008	3.4000
OIL PUMP	4.1000A
OIL DISTRIBUTION SYSTEM	4.1000B
OIL PRESSURE REGULATOR	4.1000C
OIL FILTER	4.2000A
OIL COOLER	4.4000A
OIL FILLER	4.5000A
DIPSTICK THRU 3D-29020	4.6000A
DIPSTICK EFF. WITH 3D-29021	4.6000A
OIL PAN	4.7000A
VENTILATING SYSTEM	4.8000A
FRESH WATER PUMP	5.1000
THERMOSTAT	5.2000B
WATER BY-PASS TUBE	5.2000C
WATER CONNECTIONS	5.3000B
EXHAUST MANIFOLD	6.1000A
EXHAUST MUFFLER CONNECTIONS	6.2000A
BATTERY CHARGING GENERATOR	7.1000A
STARTING MOTOR	7.3000A
HYDRAULIC MARINE GEAR	9.1000A
ENGINE MOUNTS	11.1000A

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	56
AIR BOX DRAINS	1.1000A	49
CYLINDER HEAD	1.2000	23
ENGINE LIFTER BRACKET	1.2000A	52
CRANKSHAFT	1.3000	20
CRANKSHAFT FRONT COVER	1.3000A	48
LYWHEEL	1.4000A	378
LYWHEEL HOUSING	1.5000A	178
CONNECTING ROD AND PISTON	1.6000	26
CRANKSHAFT AND GEAR TRAIN	1.7000	32
VALVE OPERATING MECHANISM	1.8000	30
ROCKER COVER	1.8000A	38
FUEL INJECTOR	2.1000A	52
FUEL PUMP	2.2000	46
FUEL FILTER	2.3000A	223
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES	2.5000A	490
MECHANICAL GOVERNOR (VARIABLE SPEED, CLOSED LINKAGE)	2.7000A	602
MECHANICAL GOVERNOR (VARIABLE SPEED, OPEN LINKAGE)	2.7000A	597
MECHANICAL GOVERNOR (LIMITING SPEED)	2.7000A	589
INJECTOR CONTROL TUBE	2.9000	99
THROTTLE CONTROLS (VARIABLE SPEED, CLOSED LINKAGE GOVERNOR) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	2.9000A	483
AIR SILENCER (MOUNTED ON AIR INLET HOUSING)	3.2000A	28
AIR INLET HOUSING	3.3000A	232
LOWER (THRU 3D-34007)	3.4000	61
LOWER (EFFECTIVE WITH 3D-34008)	3.4000	113
OIL PUMP	4.1000A	49
OIL DISTRIBUTION	4.1000B	220
OIL PRESSURE REGULATOR	4.1000C	9
OIL FILTER	4.2000A	109
OIL COOLER	4.4000A	315
OIL FILLER	4.5000A	45
WIPSTICK	4.6000A	186
OIL PAN	4.7000A	293
VENTILATING SYSTEM	4.8000A	355
FRESH WATER PUMP	5.1000	62
THERMOSTAT (DIRECT COOLING)	5.2000B	123
THERMOSTAT (WITH HEAT EXCHANGER OR KEEL COOLING)	5.2000B	105
WATER BY-PASS TUBE (HEAT EXCHANGER COOLING OR KEEL COOLING)	5.2000C	186
WATER BY-PASS TUBE (DIRECT COOLING)	5.2000C	206
WATER CONNECTIONS (HEAT EXCHANGER COOLING)	5.3000B	204
WATER CONNECTIONS (DIRECT COOLING)	5.3000B	210
HEAT EXCHANGER (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	5.5000A	320
RAW WATER PUMP (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	5.6000A	38
WATER FILTER (HEAT EXCHANGER COOLING OR KEEL COOLING, 15 GAL. SYSTEM) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	5.7000A	21
EXHAUST MANIFOLD	6.1000A	125
EXHAUST MUFFLER CONNECTIONS	6.2000A	176
BATTERY CHARGING GENERATOR (12V., 25 AMP. NEGATIVE RETURN)	7.1000A	810
BATTERY CHARGING GENERATOR (12V., 60 AMP. NEGATIVE RETURN)	7.1000A	1174
STARTING MOTOR	7.3000A	180
INSTRUMENT PANEL (SINGLE) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000A	220
INSTRUMENT PANEL (DUAL) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000A	215
ACHOMETER DRIVE CABLE (5' LONG) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000B	11
ACHOMETER DRIVE CABLE (10' LONG) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000B	47
ACHOMETER DRIVE CABLE (15' LONG) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000B	46
ACHOMETER DRIVE (SINGLE OUTLET) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000B	310
ACHOMETER DRIVE (DOUBLE OUTLET) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000B	306
ALARM SYSTEM (WITHOUT WATER FILTER) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000C	354

DETROIT DIESEL 53 MPC ENGINES

5032-22

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.
HYDRAULIC MARINE GEAR (DIRECT DRIVE)	9.1000A
HYDRAULIC MARINE GEAR (1.5:1 REDUCTION)	9.1000A
HYDRAULIC MARINE GEAR (2:1 REDUCTION)	9.1000A
HYDRAULIC MARINE GEAR (2.5:1 REDUCTION)	9.1000A
ENGINE MOUNTING	11.1000A
ENGINE MOUNTING (RESILIENT TYPE)	11.1000A
BILGE PUMP (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	12.2000A

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	29
IR BOX DRAINS	1.1000A	63
CYLINDER HEAD	1.2000	23
ENGINE LIFTER BRACKET STD. EQUIP. PRIOR TO 3D-108417	1.2000A	53
RANKSHAFT	1.3000	20
RANKSHAFT FRONT COVER THRU 3D-116289	1.3000A	48
RANKSHAFT FRONT COVER EFF. WITH 3D-116290	1.3000A	119
RANKSHAFT PULLEY	1.3000C	111
LYWHEEL	1.4000A	378
LYWHEEL HOUSING	1.5000A	185
LYWHEEL HOUSING ADAPTOR	1.5000B	27
CONNECTING ROD AND PISTON	1.6000	61
AMSHAFT AND GEAR TRAIN THRU 3D-170682	1.7000	31
AMSHAFT AND GEAR TRAIN EFF. WITH 3D-170683	1.7000	265
ALVE OPERATING MECHANISM THRU 3D-170682	1.8000	30
ALVE OPERATING MECHANISM EFF. WITH 3D-170683	1.8000	169
ROCKER COVER	1.8000A	70
FUEL INJECTOR N50	2.1000A	74
FUEL PUMP THRU 3D-85494	2.2000	33
FUEL PUMP EFF. WITH 3D-85495 AND THRU 3D-158374	2.2000	127
FUEL PUMP EFF. WITH 3D-158375	2.2000	180
FUEL FILTER	2.3000A	162
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES THRU 3D-33114	2.5000A	433
FUEL LINES EFF. WITH 3D-33115	2.5000A	1013
MECHANICAL GOVERNOR	2.7000A	596
INJECTOR CONTROLS THRU 3D-152410	2.9000	100
INJECTOR CONTROLS EFF. WITH 3D-152411	2.9000	281
IR SILENCER	3.2000A	28
IR INLET HOUSING	3.3000A	602
LOWER THRU 3D-34007	3.4000	61
LOWER EFF. WITH 3D-34008 AND THRU 3D-170682	3.4000	113
LOWER EFF. WITH 3D-170683	3.4000	315
IL PUMP	4.1000A	49
IL DISTRIBUTION SYSTEM	4.1000B	208
IL PRESSURE REGULATOR	4.1000C	9
IL FILTER THRU 3D-16657	4.2000A	155
IL FILTER EFF. WITH 3D-16658	4.2000A	220
IL COOLER (ENGINE)	4.4000A	238
IL COOLER (MARINE GEAR)	4.4000A	269
IL FILLER	4.5000A	18
IPSTICK	4.6000A	284
IL PAN	4.7000A	558
ENTILATING SYSTEM	4.8000A	319
FRESH WATER PUMP	5.1000	148
HERMOSTAT	5.2000B	72
WATER BY-PASS TUBE	5.2000C	338
WATER CONNECTIONS	5.3000B	200
EXHAUST MANIFOLD THRU 3D-66868	6.1000A	125
EXHAUST MANIFOLD EFF. WITH 3D-66869	6.1000A	404
EXHAUST MUFFLER CONNECTIONS	6.2000A	176
BATTERY CHARGING GENERATOR	7.1000A	2057
STARTING MOTOR	7.3000A	180
HYDRAULIC MARINE GEAR	9.1000A	950
ENGINE MOUNTS	11.1000A	473

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	191
AIR BOX DRAINS	1.1000A	63
CYLINDER HEAD	1.2000	23
ENGINE LIFTER BRACKET	1.2000A	53
CRANKSHAFT	1.3000	73
CRANKSHAFT FRONT COVER	1.3000A	48
CRANKSHAFT PULLEY	1.3000C	111
FLYWHEEL	1.4000A	325
FLYWHEEL HOUSING	1.5000A	ENG
FLYWHEEL HOUSING ADAPTOR	1.5000B	27
CONNECTING ROD AND PISTON	1.6000	98
CAMSHAFT AND GEAR TRAIN	1.7000	220
VALVE OPERATING MECHANISM	1.8000	30
ROCKER COVER	1.8000A	70
FUEL INJECTOR	2.1000A	74
FUEL PUMP	2.2000	127
FUEL FILTER	2.3000A	693
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES	2.5000A	1526
MECHANICAL GOVERNOR	2.7000A	596
INJECTOR CONTROLS	2.9000	281
AIR SILENCER	3.2000A	28
AIR INLET HOUSING	3.3000A	602
BLOWER	3.4000	305
OIL PUMP	4.1000A	49
OIL DISTRIBUTION SYSTEM	4.1000B	208
OIL PRESSURE REGULATOR	4.1000C	009
OIL FILTER	4.2000A	364
OIL COOLER (ENGINE)	4.4000A	238
OIL COOLER (MARINE GEAR)	4.4000A	269
OIL FILLER	4.5000A	18
DIPSTICK	4.6000A	284
OIL PAN	4.7000A	558
VENTILATING SYSTEM	4.8000A	319
FRESH WATER PUMP	5.1000	148
THERMOSTAT	5.2000B	72
WATER BY-PASS TUBE	5.2000C	319
WATER CONNECTIONS	5.3000B	196
EXHAUST MANIFOLD	6.1000A	404
EXHAUST MUFFLER CONNECTIONS	6.2000A	176
BATTERY CHARGING GENERATOR	7.1000A	2022
STARTING MOTOR	7.3000A	308
HYDRAULIC MARINE GEAR	9.1000A	950
ENGINE MOUNTING	11.1000A	473

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	29
AIR BOX DRAINS THRU SERIAL NO. 3D-9115	1.1000A	32
AIR BOX DRAINS EFFECTIVE WITH 3D-9116	1.1000A	63
CYLINDER HEAD	1.2000	22
ENGINE LIFTER BRACKET THRU SERIAL NO. 3D-2275	1.2000A	40
ENGINE LIFTER BRACKET EFFECTIVE WITH 3D-2276	1.2000A	53
CRANKSHAFT	1.3000	20
CRANKSHAFT FRONT COVER (OPTIONAL EQUIPMENT EFF. WITH 3D-5735, STANDARD EQUIPMENT NOT SHOWN ON OPTION PLATE PRIOR TO THIS SERIAL NUMBER.)	1.3000A	48
CRANKSHAFT PULLEY	1.3000C	111
FLYWHEEL	1.4000A	378
FLYWHEEL HOUSING	1.5000A	185
FLYWHEEL HOUSING ADAPTOR	1.5000B	27
CONNECTING ROD AND PISTON	1.6000	26
CAMSHAFT AND GEAR TRAIN	1.7000	31
VALVE OPERATING MECHANISM	1.8000	29
ROCKER COVER (BREATHING EXTENSION)	1.8000A	71
ROCKER COVER (WITH FILLER AND BREATHING EXTENSION)	1.8000A	70
FUEL INJECTOR THRU SERIAL NO. 3D-730	2.1000A	47
FUEL INJECTOR EFFECTIVE WITH 3D-731	2.1000A	51
FUEL PUMP	2.2000	33
FUEL FILTER	2.3000A	162
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES THRU SERIAL NO. 3D-667	2.5000A	390
FUEL LINES EFFECTIVE WITH 3D-668	2.5000A	433
MECHANICAL GOVERNOR (VARIABLE SPEED, CLOSED LINKAGE)	2.7000A	599
MECHANICAL GOVERNOR (VARIABLE SPEED, OPEN LINKAGE)	2.7000A	594
MECHANICAL GOVERNOR (LIMITING SPEED)	2.7000A	588
INJECTOR CONTROL TUBE	2.9000	100
ROTTLE CONTROLS (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	2.9000	476
AIR CLEANER (HEAVY DUTY)	3.1000A	199
AIR SILENCER (MOUNTED ON AIR INLET HOUSING)	3.2000A	28
AIR INLET HOUSING (FOR AIR CLEANER)	3.3000A	140
AIR INLET HOUSING (FOR AIR SILENCER)	3.3000A	232
LOWER THRU 3D-34007	3.4000	61
LOWER EFFECTIVE WITH 3D-34008	3.4000	113
OIL PUMP	4.1000A	49
OIL DISTRIBUTION SYSTEM (REAR SUMP 17 DEG.)	4.1000B	208
OIL DISTRIBUTION SYSTEM (FRONT SUMP 10 DEG.)	4.1000B	209
OIL PRESSURE REGULATOR	4.1000C	9
OIL FILTER (REMOTE MOUNTED) THRU SERIAL NO. 3D-667	4.2000A	115
OIL FILTER (MOUNTED ON OIL COOLER ADAPTOR) EFFECTIVE WITH 3D-668 AND THRU SERIAL NO. 3D-16657	4.2000A	155
OIL FILTER (MOUNTED ON OIL COOLER ADAPTOR) EFFECTIVE WITH 3D-16658	4.2000A	220
OIL FILTER LINES (WITH REMOTE MOUNTED FILTER)	4.3000A	78
OIL COOLER (ENGINE OIL)	4.4000A	238
OIL COOLER (MARINE GEAR DIRECT DRIVE)	4.4000A	269
OIL COOLER (MARINE GEAR REDUCTION DRIVE)	4.4000A	254
OIL FILLER (ON ROCKER COVER)	4.5000A	18
OIL FILLER (ON FLYWHEEL HOUSING)	4.5000A	51
IPSTICK	4.6000A	284
OIL PAN	4.7000A	124
VENTILATING SYSTEM	4.8000A	319
FRESH WATER PUMP (DIRECT COOLING)	5.1000	45
FRESH WATER PUMP (HEAT EXCHANGER COOLING OR KEEL COOLING)	5.1000	44
TERMOSTAT	5.2000B	72
WATER BY-PASS TUBE (DIRECT COOLING)	5.2000C	147
WATER BY-PASS TUBE (HEAT EXCHANGER COOLING OR KEEL COOLING)	5.2000C	139
WATER CONNECTIONS (DIRECT COOLING)	5.3000B	200
WATER CONNECTIONS (WITH HEAT EXCHANGER COOLING)	5.3000B	196
WATER CONNECTIONS (KEEL COOLING)	5.3000B	203
HEAT EXCHANGER COOLING (WITH AIR SILENCER) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	5.5000A	291
HEAT EXCHANGER COOLING (WITH AIR CLEANER) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	5.5000A	318
KEEL COOLING (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	5.5000A	294
SEA WATER PUMP (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	5.6000A	38

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
WATER FILTER (HEAT EXCHANGER COOLING OR KEEL COOLING, 15 GAL. SYSTEM) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	5.7000A	12
WATER FILTER (KEEL COOLING, 30 GAL. SYSTEM) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	5.7000A	17
EXHAUST MANIFOLD (WATER COOLED)	6.1000A	125
EXHAUST MUFFLER CONNECTIONS	6.2000A	176
BATTERY CHARGING GENERATOR (12V., 25 AMP. NEGATIVE RETURN) (DIRECT COOLING)	7.1000A	881
BATTERY CHARGING GENERATOR (12V., 25 AMP. POSITIVE RETURN) (DIRECT COOLING)	7.1000A	922
BATTERY CHARGING GENERATOR (12V., 25 AMP. POSITIVE RETURN) (WITH HEAT EXCHANGER COOLING)	7.1000A	955
BATTERY CHARGING GENERATOR (12V., 25 AMP. NEGATIVE RETURN) (WITH HEAT EXCHANGER COOLING)	7.1000A	956
BATTERY CHARGING GENERATOR (12V., 60 AMP. NEGATIVE RETURN) (WITH HEAT EXCHANGE COOLING)	7.1000A	1140
STARTING MOTOR (12V.)	7.3000A	180
INSTRUMENT PANEL (SINGLE) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000A	220
INSTRUMENT PANEL (DUAL) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000A	215
TACHOMETER DRIVE (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000B	210
TACHOMETER DRIVE (CABLE, 5' LONG) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000B	11
TACHOMETER DRIVE (CABLE, 10' LONG) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000B	47
TACHOMETER DRIVE (CABLE, 15' LONG) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000B	46
ALARM SYSTEM (WITH NO WATER FILTER) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000C	354
ALARM SYSTEM (WITH WATER FILTER) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000C	355
POWER TAKE-OFF (FRONT) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	8.1000A	181
HYDRAULIC MARINE GEAR (DIRECT DRIVE)	9.1000A	550
HYDRAULIC MARINE GEAR (1.5:1 REDUCTION)	9.1000A	552
HYDRAULIC MARINE GEAR (2:1 REDUCTION)	9.1000A	554
HYDRAULIC MARINE GEAR (2.5:1 REDUCTION)	9.1000A	662
HYDRAULIC MARINE GEAR (3:1 REDUCTION)	9.1000A	682
ENGINE MOUNTING (WITH FRONT PTO, REAR MOUNTS ON MARINE GEAR)	11.1000A	318
ENGINE MOUNTING (WITH FRONT PTO, REAR MOUNTS ON MARINE GEAR)	11.1000A	421
ENGINE MOUNTING (NO FRONT PTO, REAR MOUNTS ON MARINE GEAR)	11.1000A	473
ENGINE MOUNTING (NO FRONT PTO, REAR MOUNTS ON MARINE GEAR)	11.1000A	414
ENGINE MOUNTING (NO FRONT PTO, REAR MOUNTS ON MARINE GEAR)	11.1000A	483
ENGINE MOUNTING (NO FRONT PTO, REAR MOUNTS ON MARINE GEAR)	11.1000A	319
ENGINE MOUNTING (NO FRONT PTO, REAR MOUNTS ON FLYWHEEL HOUSING)	11.1000A	478
ENGINE MOUNTING (RESILIENT TYPE, NO FRONT PTO, REAR MOUNTS ON MARINE GEAR)	11.1000A	499
BILGE PUMP (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	12.2000A	22
HYDRAULIC STARTER (HEAT EXCHANGER COOLING OR KEEL COOLING) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	12.6000D	101
HYDRAULIC STARTER ACCESSORIES (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	12.6000E	28

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	29
IR BOX DRAINS	1.1000A	32
IR BOX DRAINS THRU SERIAL NO. 3D-9115	1.1000A	32
IR BOX DRAINS EFFECTIVE WITH 3D-9116	1.1000A	68
CYLINDER HEAD	1.2000	23
ENGINE LIFTER BRACKET THRU SERIAL NO. 3D-2047	1.2000A	40
ENGINE LIFTER BRACKET EFFECTIVE WITH 3D-2048	1.2000A	53
RANKSHAFT	1.3000	20
RANKSHAFT FRONT COVER (OPTIONAL EQUIP. EFF. WITH 3D-5741, STANDARD EQUIP. NOT SHOWN ON OPTION PLATE PRIOR TO THIS SERIAL NUMBER.)	1.3000A	48
RANKSHAFT PULLEY (NO FRONT PTO)	1.3000C	111
LYWHEEL	1.4000A	378
LYWHEEL HOUSING	1.5000A	185
LYWHEEL HOUSING ADAPTOR	1.5000B	27
CONNECTING ROD AND PISTON	1.6000	26
AMSHAFT AND GEAR TRAIN	1.7000	31
VALVE OPERATING MECHANISM	1.8000	30
ROCKER COVER (BREATHER EXTENSION)	1.8000A	71
ROCKER COVER (WITH FILLER AND BREATHER EXTENSION)	1.8000A	70
FUEL INJECTOR	2.1000A	52
FUEL INJECTOR	2.1000A	51
FUEL PUMP	2.2000	33
FUEL FILTER	2.3000A	162
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES THRU SERIAL NO. 3D-667	2.5000A	390
FUEL LINES EFFECTIVE WITH 3D-668	2.5000A	433
MECHANICAL GOVERNOR (VARIABLE SPEED, CLOSED LINKAGE)	2.7000A	601
MECHANICAL GOVERNOR (VARIABLE SPEED, OPEN LINKAGE)	2.7000A	596
MECHANICAL GOVERNOR (LIMITING SPEED)	2.7000A	588
INJECTOR CONTROL TUBE	2.9000	100
THROTTLE CONTROLS (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	2.9000A	476
AIR CLEANER	3.1000A	199
AIR SILENCER (MOUNTED ON AIR INLET HOUSING)	3.2000A	28
AIR INLET HOUSING (FOR AIR CLEANER)	3.3000A	140
AIR INLET HOUSING (FOR AIR SILENCER)	3.3000A	232
LOWER THRU 3D-34007	3.4000	61
LOWER EFFECTIVE WITH 3D-34008	3.4000	113
OIL PUMP	4.1000A	49
OIL DISTRIBUTION SYSTEM (REAR SUMP 17 DEG.)	4.1000B	208
OIL DISTRIBUTION SYSTEM (FRONT SUMP 10 DEG.)	4.1000B	209
OIL PRESSURE REGULATOR	4.1000C	9
OIL FILTER (REMOTE MOUNTED, THRU SERIAL NO. 3D-667)	4.2000A	115
OIL FILTER (MOUNTED ON OIL COOLER ADAPTOR) EFFECTIVE WITH 3D-668 AND THRU SERIAL NO. 3D-16657	4.2000A	155
OIL FILTER (MOUNTED ON OIL COOLER ADAPTOR) EFFECTIVE WITH 3D-16658	4.2000A	220
OIL FILTER LINES (WITH REMOTE MOUNTED FILTER) THRU SERIAL NO. 3D-667	4.3000A	78
OIL COOLER (MARINE GEAR DIRECT DRIVE)	4.4000A	269
OIL COOLER (MARINE GEAR REDUCTION DRIVE)	4.4000A	254
OIL COOLER (ENGINE OIL)	4.4000A	238
OIL FILLER (ON ROCKER COVER)	4.5000A	18
OIL FILLER (ON FLYWHEEL HOUSING)	4.5000A	51
POSTICK	4.6000A	284
OIL PAN	4.7000A	124
VENTILATING SYSTEM (WITH AIR SILENCER MOUNTED TO AIR INLET HOUSING)	4.8000A	319
FRESH WATER PUMP (DIRECT COOLING)	5.1000	45
FRESH WATER PUMP (HEAT EXCHANGER COOLING OR KEEL COOLING)	5.1000	44
THERMOSTAT	5.2000B	72
WATER BY-PASS TUBE (HEAT EXCHANGER COOLING OR KEEL COOLING)	5.2000C	139
WATER BY-PASS TUBE (DIRECT COOLING)	5.2000C	147
WATER CONNECTIONS (DIRECT COOLING)	5.3000B	200
WATER CONNECTIONS (HEAT EXCHANGER COOLING)	5.3000B	196
WATER CONNECTIONS (KEEL COOLING)	5.3000B	203
HEAT EXCHANGER COOLING (WITH AIR SILENCER) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	5.5000A	291
HEAT EXCHANGER COOLING (WITH AIR CLEANER) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	5.5000A	318
KEEL COOLING (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	5.5000A	294

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
RAW WATER PUMP (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	5.6000A	38
WATER FILTER (HEAT EXCHANGER COOLING OR KEEL COOLING, 15 GAL. SYSTEM) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	5.7000A	12
WATER FILTER (KEEL COOLING, 30 GAL. SYSTEM) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	5.7000A	17
EXHAUST MANIFOLD (WATER COOLED)	6.1000A	125
EXHAUST MUFFLER CONNECTIONS	6.2000A	176
BATTERY CHARGING GENERATOR (12V., 25 AMP., NEGATIVE RETURN, DIRECT COOLING)	7.1000A	881
BATTERY CHARGING GENERATOR (12V., 25 AMP., POSITIVE RETURN, DIRECT COOLING)	7.1000A	922
BATTERY CHARGING GENERATOR (12V., 25 AMP., POSITIVE RETURN, WITH HEAT EXCHANGER COOLING)	7.1000A	955
BATTERY CHARGING GENERATOR (12V., 25 AMP., NEGATIVE RETURN, WITH HEAT EXCHANGER COOLING)	7.1000A	956
BATTERY CHARGING GENERATOR (12V., 60 AMP., NEGATIVE RETURN, WITH HEAT EXCHANGER COOLING)	7.1000A	1140
STARTING MOTOR	7.3000A	180
INSTRUMENT PANEL (SINGLE) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000A	220
INSTRUMENT PANEL (DUAL) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000A	215
TACHOMETER DRIVE (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000B	210
TACHOMETER DRIVE (CABLE, 5' LONG) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000B	11
TACHOMETER DRIVE (CABLE, 10' LONG) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000B	47
TACHOMETER DRIVE (CABLE, 15' LONG) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000B	46
ALARM SYSTEM (WITH NO WATER FILTER) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000C	354
ALARM SYSTEM (WITH WATER FILTER) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000C	355
POWER TAKE-OFF (FRONT) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	8.1000A	181
HYDRAULIC MARINE GEAR (DIRECT DRIVE)	9.1000A	550
HYDRAULIC MARINE GEAR (1.5:1 REDUCTION)	9.1000A	552
HYDRAULIC MARINE GEAR (2:1 REDUCTION)	9.1000A	554
HYDRAULIC MARINE GEAR (2.5:1 REDUCTION)	9.1000A	662
HYDRAULIC MARINE GEAR (3:1 REDUCTION)	9.1000A	682
ENGINE MOUNTING (WITH FRONT PTO, REAR MOUNTS ON MARINE GEAR)	11.1000A	318
ENGINE MOUNTING (WITH FRONT PTO, REAR MOUNTS ON MARINE GEAR)	11.1000A	421
ENGINE MOUNTING (NO FRONT PTO, REAR MOUNTS ON MARINE GEAR)	11.1000A	319
ENGINE MOUNTING (NO FRONT PTO, REAR MOUNTS ON MARINE GEAR)	11.1000A	414
ENGINE MOUNTING (NO FRONT PTO, REAR MOUNTS ON MARINE GEAR)	11.1000A	473
ENGINE MOUNTING (NO FRONT PTO, REAR MOUNTS ON MARINE GEAR)	11.1000A	483
ENGINE MOUNTING (NO FRONT PTO, REAR MOUNTS ON FLYWHEEL HOUSING)	11.1000A	478
ENGINE MOUNTING (RESILIENT TYPE, NO FRONT PTO, REAR MOUNTS ON MARINE GEAR)	11.1000A	499
BILGE PUMP (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	12.2000A	22
HYDRAULIC STARTER (HEAT EXCHANGER OR KEEL COOLING) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	12.6000D	101
HYDRAULIC STARTER ACCESSORIES (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	12.6000E	28

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	29
AIR BOX DRAINS	1.1000A	63
CYLINDER HEAD	1.2000	23
ENGINE LIFTER BRACKET STD. EQUIP. PRIOR TO 3D-108445	1.2000A	53
CRANKSHAFT	1.3000	20
CRANKSHAFT FRONT COVER THRU 3D-116289	1.3000A	48
CRANKSHAFT FRONT COVER EFF. WITH 3D-116290	1.3000A	119
CRANKSHAFT PULLEY	1.3000C	111
FLYWHEEL	1.4000A	378
FLYWHEEL HOUSING	1.5000A	178
CONNECTING ROD AND PISTON	1.6000	61
CAMSHAFT AND GEAR TRAIN	1.7000	31
VALVE OPERATING MECHANISM	1.8000	30
ROCKER COVER	1.8000A	61
FUEL INJECTOR	2.1000A	74
FUEL PUMP THRU 3D-85494	2.2000	34
FUEL PUMP EFF. WITH 3D-85495	2.2000	136
FUEL FILTER	2.3000A	162
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES THRU 3D-33113	2.5000A	433
FUEL LINES EFF. WITH 3D-33114	2.5000A	1013
MECHANICAL GOVERNOR	2.7000A	597
INJECTOR CONTROLS	2.9000	99
AIR SILENCER	3.2000A	28
AIR INLET HOUSING	3.3000A	232
OIL LOWER THRU 3D-34007	3.4000	60
OIL LOWER EFF. WITH 3D-34008	3.4000	114
OIL PUMP	4.1000A	49
OIL DISTRIBUTION SYSTEM	4.1000B	208
OIL PRESSURE REGULATOR	4.1000C	9
OIL FILTER THRU 3D-687	4.2000A	115
OIL FILTER EFF. WITH 3D-688 AND THRU 3D-17557	4.2000A	156
OIL FILTER EFF. WITH 3D-17558	4.2000A	239
OIL FILTER LINES	4.3000A	79
OIL COOLER	4.4000A	270
OIL FILLER	4.5000A	18
PISTON	4.6000A	284
OIL PAN	4.7000A	558
VENTILATING SYSTEM	4.8000A	320
FRESH WATER PUMP	5.1000	149
THERMOSTAT	5.2000B	72
WATER BY-PASS TUBE	5.2000C	381
WATER CONNECTIONS	5.3000B	201
EXHAUST MANIFOLD THRU 3D-66868	6.1000A	125
EXHAUST MANIFOLD EFF. WITH 3D-66869	6.1000A	404
EXHAUST MUFFLER CONNECTIONS	6.2000A	177
BATTERY CHARGING GENERATOR	7.1000A	1771
TARTING MOTOR	7.3000A	255
HYDRAULIC MARINE GEAR	9.1000A	551
ENGINE MOUNTS	11.1000A	473

DETROIT DIESEL 53 MPC ENGINES

5032-6050

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	144
AIR BOX DRAINS	1.1000A	63
CYLINDER HEAD	1.2000	23
ENGINE LIFTER BRACKET	1.2000A	53
CRANKSHAFT	1.3000	70
CRANKSHAFT FRONT COVER	1.3000A	48
CRANKSHAFT PULLEY	1.3000C	111
FLYWHEEL	1.4000A	325
FLYWHEEL HOUSING	1.5000A	345
CONNECTING ROD AND PISTON	1.6000	98
CAMSHAFT AND GEAR TRAIN	1.7000	220
VALVE OPERATING MECHANISM	1.8000	30
ROCKER COVER	1.8000A	61
FUEL INJECTOR	2.1000A	74
FUEL PUMP	2.2000	136
FUEL FILTER	2.3000A	693
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES	2.5000A	1526
MECHANICAL GOVERNOR	2.7000A	1706
INJECTOR CONTROLS	2.9000	278
AIR SILENCER	3.2000A	28
AIR INLET HOUSING	3.3000A	602
BLOWER	3.4000	278
OIL PUMP	4.1000A	49
OIL DISTRIBUTION SYSTEM	4.1000B	208
OIL PRESSURE REGULATOR	4.1000C	009
OIL FILTER	4.2000A	359
OIL COOLER (MARINE GEAR)	4.4000A	270
OIL FILLER	4.5000A	18
DIPSTICK	4.6000A	284
OIL PAN	4.7000A	558
VENTILATING SYSTEM	4.8000A	320
FRESH WATER PUMP	5.1000	149
THERMOSTAT	5.2000B	72
WATER BY-PASS TUBE	5.2000C	319
WATER CONNECTIONS	5.3000B	199
EXHAUST MANIFOLD	6.1000A	404
EXHAUST MUFFLER CONNECTIONS	6.2000A	177
BATTERY CHARGING GENERATOR	7.1000A	2020
STARTING MOTOR	7.3000A	312
HYDRAULIC MARINE GEAR	9.1000A	551
ENGINE MOUNTS	11.1000A	473

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	29
AIR BOX DRAINS THRU 3D-9115	1.1000A	32
AIR BOX DRAINS EFF. WITH 3D-9116	1.1000A	63
CYLINDER HEAD	1.2000	22
ENGINE LIFTER BRACKET THRU 3D-2047	1.2000A	40
ENGINE LIFTER BRACKET EFF. WITH 3D-2048	1.2000A	53
CRANKSHAFT	1.3000	20
CRANKSHAFT FRONT COVER STD. EQUIP. PRIOR TO 3D-5876	1.3000A	48
CRANKSHAFT PULLEY	1.3000C	111
FLYWHEEL	1.4000A	378
FLYWHEEL HOUSING	1.5000A	178
FLYWHEEL HOUSING ADAPTOR	1.5000B	27
CONNECTING ROD AND PISTON	1.6000	26
CRANKSHAFT AND GEAR TRAIN	1.7000	31
VALVE OPERATING MECHANISM	1.8000	29
ROCKER COVER (WITH FILLER AND BREATHER EXTENSION)	1.8000A	61
ROCKER COVER (BREATHER EXTENSION)	1.8000A	72
FUEL INJECTOR THRU 3D-730	2.1000A	47
FUEL INJECTOR EFF. WITH 3D-731	2.1000A	51
FUEL PUMP	2.2000	34
FUEL FILTER	2.3000A	162
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES THRU 3D-667	2.5000A	390
FUEL LINES EFF. WITH 3D-668	2.5000A	433
MECHANICAL GOVERNOR (VAR. SPD. CLOSED LINKAGE)	2.7000A	469
MECHANICAL GOVERNOR (VAR. SPD. OPEN LINKAGE)	2.7000A	505
MECHANICAL GOVERNOR (LIM. SPD.)	2.7000A	589
INJECTOR CONTROL TUBE	2.9000	99
THROTTLE CONTROL (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	2.9000A	483
AIR CLEANER (HEAVY DUTY)	3.1000A	199
AIR SILENCER (MTD. ON AIR INLET HOUSING)	3.2000A	28
AIR INLET HOUSING (FOR AIR CLEANER)	3.3000A	139
AIR INLET HOUSING (FOR AIR SILENCER)	3.3000A	232
LOWER THRU 3D-34007	3.4000	60
LOWER EFF. WITH 3D-34008	3.4000	114
OIL PUMP	4.1000A	49
OIL DISTRIBUTION SYSTEM (FRONT SUMP 10 DEG.)	4.1000B	209
OIL DISTRIBUTION SYSTEM (REAR SUMP 17 DEG.)	4.1000B	208
OIL PRESSURE REGULATOR	4.1000C	9
OIL FILTER (REMOTE MTD.) THRU 3D-687	4.2000A	115
OIL FILTER (MTD. ON OIL COOLER ADAPTOR) EFF. WITH 3D-668 AND THRU-3D-17557	4.2000A	156
OIL FILTER (MTD. ON OIL COOLER ADAPTOR) EFF. WITH 3D-17558	4.2000A	239
OIL FILTER LINES (WITH REMOTE MOUNTED FILTER) THRU 3D-687	4.3000A	79
OIL COOLER (MARINE GEAR DIRECT DRIVE)	4.4000A	270
OIL COOLER (MARINE GEAR RED. DRIVE)	4.4000A	271
OIL COOLER (ENGINE OIL)	4.4000A	230
OIL FILLER (ON ROCKER COVER)	4.5000A	18
OIL FILLER (ON FLYWHEEL HOUSING)	4.5000A	51
IPSTICK	4.6000A	284
OIL PAN	4.7000A	124
ENTILATING SYSTEM (WITH AIR SILENCER MOUNTED ON AIR INLET HOUSING)	4.8000A	320
FRESH WATER PUMP (DIRECT COOLING)	5.1000	46
FRESH WATER PUMP (HEAT EXCHANGER OR KEEL COOLING)	5.1000	47
THERMOSTAT	5.2000B	72
WATER BY-PASS TUBE (DIRECT COOLING)	5.2000C	147
WATER BY-PASS TUBE (HEAT EXCHANGER COOLING OR KEEL COOLING)	5.2000C	202
WATER CONNECTIONS (DIRECT COOLING)	5.3000B	201
WATER CONNECTIONS (HEAT EXCHANGER COOLING)	5.3000B	199
WATER CONNECTIONS (KEEL COOLING)	5.3000B	139
HEAT EXCHANGER COOLING (WITH AIR SILENCER) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	5.5000A	299
HEAT EXCHANGER COOLING (WITH AIR CLEANER) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	5.5000A	368
KEEL COOLING (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	5.5000A	294
RAW WATER PUMP (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	5.6000A	38
WATER FILTER (HEAT EXCHANGER COOLING OR KEEL COOLING, 15 GAL. SYSTEM) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	5.7000A	12

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
WATER FILTER (KEEL COOLING, 30 GAL. SYSTEM) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	5.7000A	17
EXHAUST MANIFOLD (WATER COOLED)	6.1000A	125
EXHAUST MUFFLER CONNECTIONS	6.2000A	177
BATTERY CHARGING GENERATOR (12V., 25 AMP. NEGATIVE RETURN) (DIRECT COOLING)	7.1000A	1106
BATTERY CHARGING GENERATOR (12V., 25 AMP. POSITIVE RETURN) (DIRECT COOLING)	7.1000A	1114
BATTERY CHARGING GENERATOR (12V., 25 AMP. POSITIVE RETURN) (WITH HEAT EXCHANGER COOLING)	7.1000A	957
BATTERY CHARGING GENERATOR (12V., 25 AMP. NEGATIVE RETURN) (WITH HEAT EXCHANGER COOLING)	7.1000A	958
BATTERY CHARGING GENERATOR (12V., 60 AMP. NEGATIVE RETURN) (WITH HEAT EXCHANGER COOLING)	7.1000A	1142
STARTING MOTOR	7.3000A	255
INSTRUMENT PANEL (SINGLE) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000A	220
INSTRUMENT PANEL (DUAL) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000A	215
TACHOMETER DRIVE (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000B	292
TACHOMETER DRIVE (CABLE, 5' LONG) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000 B	11
TACHOMETER DRIVE (CABLE, 10' LONG) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.40 00B	47
TACHOMETER DRIVE (CABLE 15' LONG) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000 B	46
ALARM SYSTEM (WITH WATER FILTER) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000 C	355
ALARM SYSTEM (WITH NO WATER FILTER) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.40 00C	354
POWER TAKE-OFF (FRONT) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	8.1000A	181
HYDRAULIC MARINE GEAR (DIRECT DRIVE)	9.1000A	551
HYDRAULIC MARINE GEAR (1.5:1 REDUCTION)	9.1000A	553
HYDRAULIC MARINE GEAR (2:1 REDUCTION)	9.1000A	555
HYDRAULIC MARINE GEAR (2.5:1 REDUCTION)	9.1000A	663
HYDRAULIC MARINE GEAR (3:1 REDUCTION)	9.1000A	674
ENGINE MOUNTS (WITH FRONT PTO, REAR MOUNTS ON MARINE GEAR)	11.1000A	318
ENGINE MOUNTS (WITH FRONT PTO, REAR MOUNTS ON MARINE GEAR)	11.0000A	421
ENGINE MOUNTING (NO FRONT PTO, REAR MOUNTS ON MARINE GEAR)	11.1000A	319
ENGINE MOUNTING (NO FRONT PTO, REAR MOUNTS ON MARINE GEAR)	11.1000A	414
ENGINE MOUNTING (NO FRONT PTO, REAR MOUNTS ON MARINE GEAR)	11.1000A	473
ENGINE MOUNTING (NO FRONT PTO, REAR MOUNTS ON MARINE GEAR)	11.1000A	483
ENGINE MOUNTING (RESILIENT TYPE, NO FRONT PTO, REAR MOUNTS ON MARINE GEAR)	11.1000A	499
ENGINE MOUNTING (NO FRONT PTO, REAR MOUNTS ON FLYWHEEL HOUSING)	11.1000A	478
BILGE PUMP (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE)	12.2000A	22
HYDRAULIC STARTER (WITH HEAT EXCHANGER COOLING) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	12.6000D	103
HYDRAULIC STARTER ACCESSORIES (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	12.6000E	28

DETROIT DIESEL 53 MPC ENGINES

5032-6200-PORT

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	29
AIR BOX DRAINS	1.1000A	63
CYLINDER HEAD	1.2000	23
ENGINE LIFTER BRACKET	1.2000A	53
CRANKSHAFT	1.3000	20
CRANKSHAFT FRONT COVER	1.3000A	48
CRANKSHAFT PULLEY	1.3000C	111
FLYWHEEL	1.4000A	378
FLYWHEEL HOUSING	1.5000A	178
CONNECTING ROD AND PISTON	1.6000	26
CAMSHAFT AND GEAR TRAIN	1.7000	31
VALVE OPERATING MECHANISM	1.8000	30
ROCKER COVER	1.8000A	61
FUEL INJECTOR	2.1000A	52
FUEL PUMP THRU 3D-85494	2.2000	34
FUEL PUMP EFF. WITH 3D-85495	2.2000	136
FUEL FILTER	2.3000A	162
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES THRU 3D-33113	2.5000A	433
FUEL LINES EFF. WITH 3D-33114	2.5000A	1013
MECHANICAL GOVERNOR	2.7000A	597
INJECTOR CONTROLS	2.9000	99
AIR SILENCER	3.2000A	28
AIR INLET HOUSING	3.3000A	232
BLOWER THRU 3D-34007	3.4000	60
BLOWER EFF. WITH 3D-34008	3.4000	114
OIL PUMP	4.1000A	49
OIL DISTRIBUTION SYSTEM	4.1000B	208
OIL PRESSURE REGULATOR	4.1000C	9
OIL FILTER THRU 3D-687	4.2000A	115
OIL FILTER EFF. WITH 3D-688 AND THRU 3D-17557	4.2000A	156
OIL FILTER EFF. WITH 3D-17558	4.2000A	239
OIL FILTER LINES	4.3000A	79
OIL COOLER	4.4000A	270
OIL FILLER	4.5000A	18
DIPSTICK	4.6000A	284
OIL PAN	4.7000A	558
VENTILATING SYSTEM	4.8000A	320
FRESH WATER PUMP	5.1000	149
THERMOSTAT	5.2000B	72
WATER BY-PASS TUBE	5.2000C	338
WATER CONNECTIONS	5.3000B	201
EXHAUST MANIFOLD THRU 3D-66868	6.1000A	125
EXHAUST MANIFOLD EFF. WITH 3D-66869	6.1000A	404
EXHAUST MUFFLER CONNECTIONS	6.2000A	177
BATTERY CHARGING GENERATOR	7.1000A	1106
STARTING MOTOR	7.3000A	255
HYDRAULIC MARINE GEAR	9.1000A	551
ENGINE MOUNTS	11.1000A	473

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	1
CYLINDER BLOCK	1.1000	
AIR BOX DRAINS	1.1000A	
CYLINDER HEAD	1.2000	
ENGINE LIFTER BRACKET	1.2000A	
CRANKSHAFT	1.3000	
CRANKSHAFT FRONT COVER	1.3000A	
CRANKSHAFT PULLEY	1.3000C	
FLYWHEEL	1.4000A	
FLYWHEEL HOUSING	1.5000A	
CONNECTING ROD AND PISTON	1.6000	
CAMSHAFT AND GEAR TRAIN	1.7000	
VALVE OPERATING MECHANISM	1.8000	
ROCKER COVER	1.8000A	
FUEL INJECTOR	2.1000A	
FUEL PUMP	2.2000	
FUEL FILTER	2.3000A	
FUEL MANIFOLD CONNECTIONS	2.4000	
FUEL LINES	2.5000A	
MECHANICAL GOVERNOR	2.7000A	
INJECTOR CONTROLS	2.9000	
BLOWER	3.4000	
OIL PUMP	4.1000A	
OIL DISTRIBUTION SYSTEM	4.1000B	
OIL FILTER	4.2000A	
OIL COOLER	4.4000A	
OIL FILLER	4.5000A	
DIPSTICK	4.6000A	
OIL PAN	4.7000A	
VENTILATING SYSTEM	4.8000A	
FRESH WATER PUMP	5.1000	
WATER OUTLET ELBOW	5.2000A	
THERMOSTAT	5.2000B	
WATER BY-PASS TUBE	5.2000C	
WATER CONNECTIONS	5.3000B	
EXHAUST MANIFOLD	6.1000A	
EXHAUST MUFFLER CONNECTIONS	6.2000A	
STARTING MOTOR	7.3000A	
INSTRUMENTS	7.4000A	

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	56
CRANK BOX DRAINS	1.1000A	49
CYLINDER HEAD	1.2000	23
ENGINE LIFTER BRACKET	1.2000A	51
CRANKSHAFT	1.3000	20
CRANKSHAFT FRONT COVER	1.3000A	48
LYWHEEL	1.4000A	378
LYWHEEL HOUSING	1.5000A	185
CONNECTING ROD AND PISTON	1.6000	61
CRANKSHAFT AND GEAR TRAIN	1.7000	32
VALVE OPERATING MECHANISM	1.8000	30
ROCKER COVER	1.8000A	38
FUEL INJECTOR	2.1000A	74
FUEL PUMP	2.2000	47
FUEL FILTER	2.3000A	223
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES	2.5000A	491
MECHANICAL GOVERNOR	2.7000A	596
INJECTOR CONTROLS	2.9000	100
CRANK SILENCER	3.2000A	28
CRANK INLET HOUSING	3.3000A	232
LOWER THRU 3D-34007	3.4000	60
LOWER EFF. WITH 3D-34008	3.4000	114
OIL PUMP	4.1000A	49
OIL DISTRIBUTION SYSTEM	4.1000B	221
OIL PRESSURE REGULATOR	4.1000C	9
OIL FILTER	4.2000A	226
OIL COOLER	4.4000A	316
OIL FILLER	4.5000A	45
IPSTICK THRU 3D-34007	4.6000A	186
IPSTICK EFF. WITH 3D-34008	4.6000A	549
OIL PAN	4.7000A	294
VENTILATING SYSTEM	4.8000A	355
FRESH WATER PUMP	5.1000	61
THERMOSTAT	5.2000B	123
WATER BY-PASS TUBE	5.2000C	207
WATER CONNECTIONS	5.3000B	211
EXHAUST MANIFOLD	6.1000A	125
EXHAUST MUFFLER CONNECTIONS	6.2000A	177
BATTERY CHARGING GENERATOR	7.1000A	811
STARTING MOTOR	7.3000A	255
HYDRAULIC MARINE GEAR	9.1000A	540
ENGINE MOUNTS	11.1000A	410

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.
CYLINDER BLOCK	1.1000
AIR BOX DRAINS	1.1000A
CYLINDER HEAD	1.2000
ENGINE LIFTER BRACKET	1.2000A
CRANKSHAFT	1.3000
CRANKSHAFT FRONT COVER	1.3000A
FLYWHEEL	1.4000A
FLYWHEEL HOUSING	1.5000A
CONNECTING ROD AND PISTON	1.6000
CAMSHAFT AND GEAR TRAIN	1.7000
VALVE OPERATING MECHANISM	1.8000
ROCKER COVER	1.8000A
FUEL INJECTOR	2.1000A
FUEL PUMP	2.2000
FUEL FILTER	2.3000A
FUEL MANIFOLD CONNECTIONS	2.4000
FUEL LINES	2.5000A
MECHANICAL GOVERNORS	2.7000A
INJECTOR CONTROLS	2.9000
AIR SILENCER	3.2000A
AIR INLET HOUSING	3.3000A
BLOWER THRU 3D-34007	3.4000
BLOWER EFF. WITH 3D-34008	3.4000
OIL PUMP	4.1000A
OIL DISTRIBUTION SYSTEM	4.1000B
OIL PRESSURE REGULATOR	4.1000C
OIL FILTER	4.2000A
OIL COOLER	4.4000A
OIL FILLER	4.5000A
DIPSTICK	4.6000A
OIL PAN	4.7000A
VENTILATING SYSTEM	4.8000A
FRESH WATER PUMP	5.1000
THERMOSTAT	5.2000B
WATER BY-PASS TUBE	5.2000C
WATER CONNECTIONS	5.3000B
HEAT EXCHANGER	5.5000A
RAW WATER PUMP	5.6000A
EXHAUST MANIFOLD	6.1000A
EXHAUST MUFFLER CONNECTIONS	6.2000A
BATTERY CHARGING GENERATOR	7.1000A
STARTING MOTOR	7.3000A
HYDRAULIC MARINE GEAR	9.1000A
ENGINE MOUNTS	11.1000A

DETROIT DIESEL 53 MPC ENGINES

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	29
AIR BOX DRAINS	1.1000A	63
CYLINDER HEAD	1.2000	23
ENGINE LIFTER BRACKET	1.2000A	•
CRANKSHAFT	1.3000	20
CRANKSHAFT FRONT COVER	1.3000A	•
CRANKSHAFT PULLEY	1.3000C	•
CRANKSHAFT PULLEY BELT	1.3000D	•
FLYWHEEL	1.4000A	•
FLYWHEEL HOUSING	1.5000A	•
CONNECTING ROD AND PISTON	1.6000	•
CAMSHAFT AND GEAR TRAIN	1.7000	387
BALANCE WEIGHT COVER	1.7000A	•
VALVE OPERATING MECHANISM	1.8000	173
ROCKER COVER	1.8000A	•
FUEL INJECTOR	2.1000A	•
FUEL PUMP	2.2000	•
FUEL FILTER	2.3000A	•
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES	2.5000A	•
MECHANICAL GOVERNOR	2.7000A	•
INJECTOR CONTROLS	2.9000	•
THROTTLE CONTROLS	2.9000A	•
AIR INLET HOUSING	3.3000A	•
BLOWER	3.4000	•
OIL PUMP	4.1000A	•
OIL DISTRIBUTION SYSTEM	4.1000B	•
OIL PRESSURE REGULATOR	4.1000C	•
OIL FILTER	4.2000A	•
OIL COOLER	4.4000A	•
OIL FILLER	4.5000A	•
DIPSTICK	4.6000A	•
OIL PAN	4.7000A	•
VENTILATING SYSTEM	4.8000A	•
FRESH WATER PUMP	5.1000	•
WATER OUTLET MANIFOLD	5.2000A	•
THERMOSTAT	5.2000B	•
WATER BY-PASS TUBE	5.2000C	•
WATER CONNECTIONS	5.3000B	•
FAN	5.4000A	•
EXHAUST MANIFOLD	6.1000A	•
EXHAUST MUFFLER	6.2000A	•
BATTERY CHARGING GENERATOR	7.1000A	•
STARTING MOTOR	7.3000A	•
INSTRUMENTS	7.4000A	•
* STANDARD OPTION REFER TO OPTION PLATE.		

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.
CYLINDER BLOCK	1.1000
AIR BOX DRAINS	1.1000A
CYLINDER HEAD	1.2000
ENGINE LIFTER BRACKET	1.2000A
CRANKSHAFT	1.3000
CRANKSHAFT FRONT COVER	1.3000A
CRANKSHAFT PULLEY	1.3000C
FLYWHEEL	1.4000A
FLYWHEEL HOUSING	1.5000A
FLYWHEEL HOUSING ADAPTOR	1.5000B
CONNECTING ROD AND PISTON-STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	1.6000
CONNECTING ROD AND PISTON	1.6000
CAMSHAFT AND GEAR TRAIN THRU 3D-170682	1.7000
CAMSHAFT AND GEAR TRAIN EFF. WITH 3D-170683	1.7000
BALANCE WEIGHT COVER	1.7000A
VALVE OPERATING MECHANISM THRU 3D-170682	1.8000
VALVE OPERATING MECHANISM EFF. WITH 3D-170683	1.8000
ROCKER COVER	1.8000A
FUEL INJECTOR	2.1000A
FUEL PUMP THRU 3D-158374	2.2000
FUEL PUMP EFF. WITH 3D-158375	2.2000
FUEL FILTER	2.3000A
FUEL MANIFOLD CONNECTIONS	2.4000
FUEL LINES	2.5000A
MECHANICAL GOVERNOR	2.7000A
INJECTOR CONTROLS THRU 3D-152410	2.9000
INJECTOR CONTROLS EFF. WITH 3D-152411 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	2.9000
INJECTOR CONTROLS	2.9000
AIR SILENCER	3.2000A
AIR INLET HOUSING	3.3000A
BLOWER THRU 3D-170682	3.4000
BLOWER EFF. WITH 3D-170683 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	3.4000
BLOWER	3.4000
OIL PUMP THRU 3D-186877	4.1000A
OIL PUMP EFF. WITH 3D-186878	4.1000A
OIL DISTRIBUTION SYSTEM	4.1000B
OIL PRESSURE REGULATOR	4.1000C
OIL PRESSURE REGULATOR STD. EQUIP. EFF. WITH 3D-186878	4.1000C
OIL FILTER STD. PRIOR TO BEING SHOWN ON OPTION PLATE	4.2000A
OIL FILTER	4.2000A
OIL COOLER (ENGINE) STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	4.4000A
OIL COOLER (ENGINE)	4.4000A
OIL COOLER (MARINE GEAR)	4.4000A
OIL FILLER CAP (ON ROCKER COVER)	4.5000A
DIPSTICK	4.6000A
OIL PAN	4.7000A
VENTILATING SYSTEM (ON ROCKER COVER)	4.8000A
FRESH WATER PUMP	5.1000
THERMOSTAT STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	5.2000B
THERMOSTAT	5.2000B
WATER BY-PASS TUBE	5.2000C
WATER CONNECTIONS	5.3000B
EXHAUST MANIFOLD	6.1000A
EXHAUST MUFFLER CONNECTIONS	6.2000A
BATTERY CHARGING GENERATOR	7.1000A
STARTING MOTOR	7.3000A
ENGINE MOUNTS	11.1000A

● STANDARD OPTION REFER TO OPTION PLATE.

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	1.1000	29
CYLINDER BLOCK	1.1000	29
AIR BOX DRAINS	1.1000A	63
CYLINDER HEAD STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	1.2000	23
CYLINDER HEAD	1.2000	•
ENGINE LIFTER BRACKET	1.2000A	•
CRANKSHAFT	1.3000	20
CRANKSHAFT FRONT COVER	1.3000A	•
CRANKSHAFT PULLEY	1.3000C	•
CRANKSHAFT PULLEY BELT	1.3000D	•
FLYWHEEL	1.4000A	•
FLYWHEEL HOUSING	1.5000A	•
CONNECTING ROD AND PISTON-STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	1.6000	61
CONNECTING ROD AND PISTON	1.6000	•
CAMSHAFT AND GEAR TRAIN THRU 3D-170682	1.7000	32
CAMSHAFT AND GEAR TRAIN EFF. WITH 3D-170683	1.7000	267
BALANCE WEIGHT COVER	1.7000A	•
VALVE OPERATING MECHANISM THRU 3D-170682	1.8000	30
VALVE OPERATING MECHANISM EFF. WITH 3D-170683 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	1.8000	173
VALVE OPERATING MECHANISM	1.8000	•
ROCKER COVER	1.8000A	•
FUEL INJECTOR	2.1000A	•
FUEL PUMP THRU 3D-158374	2.2000	34
FUEL PUMP EFF. WITH 3D-158375 AND THRU 3D-167372	2.2000	136
FUEL PUMP EFF. WITH 3D-167373 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	2.2000	178
FUEL PUMP	2.2000	•
FUEL FILTER	2.3000A	•
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES	2.5000A	•
MECHANICAL GOVERNORS	2.7000A	•
INJECTOR CONTROLS THRU 3D-152790	2.9000	108
INJECTOR CONTROLS EFF. WITH 3D-152791 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	2.9000	277
INJECTOR CONTROLS	2.9000	•
THROTTLE CONTROLS	2.9000A	•
AIR INLET HOUSING	3.3000A	•
BLOWER THRU 3D-34007	3.4000	60
BLOWER EFF. WITH 3D-34008 AND THRU 3D-170682	3.4000	114
BLOWER EFF. WITH 3D-170683 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	3.4000	316
BLOWER	3.4000	316
OIL PUMP THRU 3D-186877	4.1000A	49
OIL PUMP EFF. WITH 3D-186878	4.1000A	166
OIL DISTRIBUTION SYSTEM	4.1000B	•
OIL PRESSURE REGULATOR	4.1000C	•
OIL PRESSURE REGULATOR STD. EQUIP. EFF. WITH 3D-186878	4.1000C	9
OIL FILTER	4.2000A	•
OIL COOLER	4.4000A	•
OIL FILLER	4.5000A	•
DIPSTICK	4.6000A	•
OIL PAN	4.7000A	•
VENTILATING SYSTEM	4.8000A	•
FRESH WATER PUMP	5.1000	•
WATER OUTLET MANIFOLD	5.2000A	•
THERMOSTAT STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	5.2000B	72
THERMOSTAT	5.2000B	•
WATER BY-PASS TUBE	5.2000C	•
WATER CONNECTIONS	5.3000B	•
FAN	5.4000A	•
EXHAUST MANIFOLD	6.1000A	•
EXHAUST MUFFLER CONNECTIONS	6.2000A	•
BATTERY CHARGING GENERATOR	7.1000A	•
STARTING MOTOR	7.3000A	•
• STANDARD OPTION REFER TO OPTION PLATE.		

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	29
AIR BOX DRAINS	1.1000A	63
CYLINDER HEAD	1.2000	23
ENGINE LIFTER BRACKET	1.2000A	175
CRANKSHAFT	1.3000	20
CRANKSHAFT FRONT COVER THRU 3D-186877	1.3000A	119
FLYWHEEL	1.4000A	•
FLYWHEEL HOUSING	1.5000A	•
CONNECTING ROD AND PISTON STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	1.6000	61
CONNECTING ROD AND PISTON	1.6000	•
CAMSHAFT AND GEAR TRAIN THRU 3D-170682	1.7000	32
CAMSHAFT AND GEAR TRAIN EFF. WITH 3D-170683	1.7000	267
BALANCE WEIGHT COVER EFF. WITH 3D-186878	1.7000A	58
VALVE OPERATING MECHANISM THRU 3D-170682	1.8000	30
VALVE OPERATING MECHANISM EFF. WITH 3D-170683	1.8000	173
ROCKER COVER	1.8000A	38
FUEL INJECTOR	2.1000A	•
FUEL PUMP THRU 3D-158374	2.2000	34
FUEL PUMP EFF. WITH 3D-158375 AND THRU 3D-167372	2.2000	136
FUEL PUMP EFF. WITH 3D-167373	2.2000	178
FUEL FILTER THRU 3D-1615142	2.3000A	157
FUEL FILTER EFF. WITH 3D-1615143	2.3000A	720
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES	2.5000A	501
MECHANICAL GOVERNORS	2.7000A	•
INJECTOR CONTROLS THRU 3D-152790	2.9000	108
INJECTOR CONTROLS EFF. WITH 3D-152791	2.9000	277
AIR INLET HOUSING	3.3000A	139
BLOWER THRU 3D-170682	3.4000	114
BLOWER EFF. WITH 3D-170683	3.4000	316
OIL PUMP THRU 3D-186877	4.1000A	49
OIL PUMP EFF. WITH 3D-186878	4.1000A	166
OIL DISTRIBUTION SYSTEM	4.1000B	169
OIL PRESSURE REGULATOR	4.1000C	9
OIL FILTER THRU 3D-173980	4.2000A	226
OIL FILTER EFF. WITH 3D-173981	4.2000A	432
OIL COOLER	4.4000A	238
OIL FILLER	4.5000A	•
DIPSTICK	4.6000A	267
OIL PAN	4.7000A	537
VENTILATING SYSTEM	4.8000A	•
FRESH WATER PUMP	5.1000	146
WATER OUTLET MANIFOLD	5.2000A	67
THERMOSTAT	5.2000B	72
WATER BY-PASS TUBE	5.2000C	318
WATER CONNECTIONS	5.3000B	117
EXHAUST MANIFOLD	6.1000A	217
STARTING MOTOR	7.3000A	302

• STANDARD OPTION REFER TO OPTION PLATE.

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	144
AIR BOX DRAINS	1.1000A	63
CYLINDER HEAD	1.2000	23
ENGINE LIFTER BRACKET	1.2000A	108
CRANKSHAFT	1.3000	20
CRANKSHAFT FRONT COVER	1.3000A	48
CRANKSHAFT PULLEY	1.3000C	131
CRANKSHAFT PULLEY BELT	1.3000D	196
LYWHEEL	1.4000A	861
LYWHEEL HOUSING	1.5000A	534
CONNECTING ROD AND PISTON	1.6000	98
CRANKSHAFT AND GEAR TRAIN	1.7000	53
VALVE OPERATING MECHANISM	1.8000	30
ROCKER COVER	1.8000A	310
FUEL INJECTOR	2.1000A	76
FUEL PUMP THRU 3D-158374	1.8000	178
FUEL PUMP EFF. WITH 3D-158375	2.2000	167
FUEL FILTER	2.3000A	689
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES	2.5000A	1520
MECHANICAL GOVERNOR	2.7000A	1707
INJECTOR CONTROLS THRU 3D-152790	2.9000	108
INJECTOR CONTROLS EFF. WITH 3D-152791	2.9000	277
THROTTLE CONTROLS	2.9000A	483
AIR CLEANER	3.1000A	211
AIR INLET HOUSING	3.3000A	595
BLOWER THRU 3D-142864	3.4000	114
BLOWER EFF. WITH 3D-142865	3.4000	278
OIL PUMP	4.1000A	49
OIL DISTRIBUTION SYSTEM	4.1000B	261
OIL PRESSURE REGULATOR	4.1000C	9
OIL FILTER	4.2000A	331
OIL COOLER THRU 3D-165141	4.4000A	230
OIL COOLER EFF. WITH 3D-165142	4.4000A	847
OIL FILLER	4.5000A	122
DIPSTICK	4.6000A	830
OIL PAN	4.7000A	514
VENTILATING SYSTEM	4.8000A	246
FRESH WATER PUMP	5.1000	145
WATER OUTLET ELBOW	5.2000A	67
THERMOSTAT	5.2000B	72
WATER BY-PASS TUBE	5.2000C	318
WATER CONNECTIONS	5.3000B	117
FAN	5.4000A	1053
EXHAUST MANIFOLD	6.1000A	217
EXHAUST MUFFLER CONNECTIONS	6.2000A	234
BATTERY CHARGING GENERATOR	7.1000A	1946
STARTING MOTOR	7.3000A	180
INSTRUMENTS	7.4000A	372
ENGINE MOUNTS	11.1000A	370

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	144
AIR BOX DRAINS	1.1000A	62
CYLINDER HEAD	1.2000	23
ENGINE LIFTER BRACKET	1.2000A	175
CRANKSHAFT	1.3000	20
CRANKSHAFT FRONT COVER	1.3000A	48
CRANKSHAFT PULLEY	1.3000C	131
CRANKSHAFT PULLEY BELT	1.3000D	196
FLYWHEEL	1.4000A	296
FLYWHEEL HOUSING	1.5000A	185
CONNECTING ROD AND PISTON	1.6000	98
CAMSHAFT AND GEAR TRAIN	1.7000	150
VALVE OPERATING MECHANISM	1.8000	30
ROCKER COVER	1.8000A	39
FUEL INJECTOR	2.1000A	76
FUEL PUMP THRU 3D-158374	2.2000	34
FUEL PUMP EFF. WITH 3D-158375 AND THRU 3D-167372	2.2000	136
FUEL PUMP EFF. WITH 3D-167373	2.2000	178
FUEL FILTER	2.3000A	691
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES	2.5000A	1522
MECHANICAL GOVERNOR	2.7000A	597
INJECTOR CONTROLS THRU 3D-152790	2.9000	108
INJECTOR CONTROLS EFF. WITH 3D-152791	2.9000	277
THROTTLE CONTROLS	2.9000A	504
AIR INLET HOUSING	3.3000A	595
BLOWER THRU 3D-142864	3.4000	114
BLOWER EFF. WITH 3D-142865	3.4000	278
OIL PUMP	4.1000A	49
OIL DISTRIBUTION SYSTEM	4.1000B	235
OIL PRESSURE REGULATOR	4.1000C	9
OIL FILTER	4.2000A	353
OIL COOLER	4.4000A	848
OIL FILLER	4.5000A	18
DIPSTICK	4.6000A	253
OIL PAN	4.7000A	584
VENTILATING SYSTEM	4.8000A	196
FRESH WATER PUMP	5.1000	146
WATER OUTLET MANIFOLD	5.2000A	67
THERMOSTAT	5.2000B	72
WATER BY-PASS TUBE	5.2000C	318
WATER CONNECTIONS	5.3000B	117
FAN	5.4000A	1053
EXHAUST MANIFOLD	6.1000A	217
EXHAUST MUFFLER CONNECTIONS	6.2000A	234
BATTERY CHARGING GENERATOR	7.1000A	1938
STARTING MOTOR	7.3000A	188
INSTRUMENTS	7.4000A	372

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	T
CYLINDER BLOCK	1.1000	
AIR BOX DRAINS	1.1000A	
CYLINDER HEAD	1.2000	
ENGINE LIFTER BRACKET	1.2000A	
CRANKSHAFT	1.3000	
CRANKSHAFT FRONT COVER	1.3000A	
CRANKSHAFT PULLEY	1.3000C	
FLYWHEEL	1.4000A	
FLYWHEEL HOUSING	1.5000A	
CONNECTING ROD AND PISTON	1.6000	
CAMSHAFT AND GEAR TRAIN	1.7000	
VALVE OPERATING MECHANISM	1.8000	
ROCKER COVER	1.8000A	
FUEL INJECTOR	2.1000A	
FUEL PUMP	2.2000	
FUEL FILTER	2.3000A	
FUEL MANIFOLD CONNECTIONS	2.4000	
HYDRAULIC GOVERNOR	2.8000A	
INJECTOR CONTROLS	2.9000	
THROTTLE CONTROLS	2.9000A	
AIR INLET HOUSING	3.3000A	
BLOWER	3.4000	
OIL PUMP	4.1000A	
OIL DISTRIBUTION SYSTEM	4.1000B	
OIL PRESSURE REGULATOR	4.1000C	
OIL FILTER	4.2000A	
OIL FILTER LINES	4.3000A	
OIL COOLER	4.4000A	
OIL FILLER	4.5000A	
DIPSTICK	4.6000A	
OIL PAN	4.7000A	
VENTILATING SYSTEM	4.8000A	
FRESH WATER PUMP	5.1000	
WATER OUTLET MANIFOLD	5.2000A	
THERMOSTAT	5.2000B	
WATER BY-PASS TUBE	5.2000C	
WATER CONNECTIONS	5.3000B	
EXHAUST MANIFOLD	6.1000A	
BATTERY CHARGING GENERATOR	7.1000A	1
STARTING MOTOR	7.3000A	
TACHOMETER DRIVE	7.4000B	
ENGINE MOUNTS	11.1000A	
AIR COMPRESSOR	12.4000A	

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.
CYLINDER BLOCK	1.1000
AIR BOX DRAINS THRU 3D-9115	1.1000A
AIR BOX DRAINS EFF. WITH 3D-9116	1.1000A
CYLINDER HEAD	1.2000
ENGINE LIFTER BRACKET STD. EQUIP. PRIOR TO 3D-13817	1.2000A
ENGINE LIFTER BRACKET (USE WITH RADIATOR SHELL & SHORT HOODS)	1.2000A
CRANKSHAFT	1.3000
CRANKSHAFT FRONT COVER (NO AIR COMPRESSOR OR VACUUM PUMP)	1.3000A
CRANKSHAFT PULLEY	1.3000C
CRANKSHAFT PULLEY BELT (1:1 FAN RATIO)	1.3000D
CRANKSHAFT PULLEY BELT (1.25:1 FAN RATIO)	1.3000D
FLYWHEEL (DELCO POWER GENERATOR)	1.4000A
FLYWHEEL (TWIN DISC PTO C110 HP2)	1.4000A
FLYWHEEL (TWIN DISC C111 CLUTCH OR ROCKFORD PTA 3120)	1.4000A
FLYWHEEL (LIPE ROLLWAY 13 ML CLUTCH)	1.4000A
FLYWHEEL (10" CLUTCH)	1.4000A
FLYWHEEL (ROCKFORD 14" TT CLUTCH)	1.4000A
FLYWHEEL (ALLISON CRT 3331 OR TC 300)	1.4000A
FLYWHEEL (10" CLUTCH)	1.4000A
FLYWHEEL (8" CLUTCH)	1.4000A
FLYWHEEL (10" CLUTCH, DETROIT DIESEL PTO)	1.4000A
FLYWHEEL (ROCKFORD 11 TT CLUTCH)	1.4000A
FLYWHEEL HOUSING	1.5000A
FLYWHEEL HOUSING	1.5000A
FLYWHEEL HOUSING	1.5000A
CONNECTING ROD AND PISTON	1.6000
CAMSHAFT AND GEAR TRAIN	1.7000
ACCESSORY DRIVE (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	1.7000B
VALVE OPERATING MECHANISM	1.8000
ROCKER COVER (PLAIN)	1.8000A
ROCKER COVER (WITH OIL FILLER HOLE)	1.8000A
FUEL INJECTOR	2.1000A
FUEL INJECTOR	2.1000A
FUEL PUMP	2.2000
FUEL FILTER (WITH ENGINE OIL COOLER)	2.3000A
FUEL MANIFOLD CONNECTIONS	2.4000
FUEL LINES (WITH ENGINE OIL COOLER)	2.5000A
FUEL LINES (FUEL CHECK VALVE 1/4" INLET) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	2.5000A
MECHANICAL GOVERNOR (VARIABLE SPEED, CLOSED LINKAGE)	2.7000A
MECHANICAL GOVERNOR (VARIABLE SPEED, OPEN LINKAGE)	2.7000A
MECHANICAL GOVERNOR (LIMITING SPEED)	2.7000A
INJECTOR CONTROL TUBE	2.9000
THROTTLE CONTROLS (VARIABLE SPEED, CLOSED LINKAGE)	2.9000A
THROTTLE CONTROLS (VARIABLE SPEED, OPEN LINKAGE)	2.9000A
AIR CLEANER (HEAVY DUTY, REMOTE MOUNTED) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	3.1000A
AIR CLEANER (LIGHT DUTY, REMOTE MOUNTED) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	3.1000A
AIR CLEANER (LIGHT DUTY, DIRECT MOUNTED) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	3.1000A
AIR INLET HOUSING (MANUAL SHUTDOWN, REMOTE MOUNTED AIR CLEANER)	3.3000A
AIR INLET HOUSING (MANUAL SHUTDOWN, DIRECT MOUNTED AIR CLEANER)	3.3000A
AIR INLET HOUSING (AUTOMATIC SHUTDOWN, RESET LEVER, REMOTE MOUNTED AIR CLEANER)	3.3000A
BLOWER	3.4000
OIL PUMP	4.1000A
OIL DISTRIBUTION SYSTEM (10 DEG. OPERATION)	4.1000B
OIL DISTRIBUTION SYSTEM (20 DEG. OPERATION) (OPTIONAL EQUIP. EFF. WITH 3D-883 STANDARD EQUIP. NOT SHOWN ON OPTION PLATE PRIOR TO THIS SERIAL NUMBER.)	4.1000B
OIL PRESSURE REGULATOR	4.1000C
OIL FILTER (MOUNTED ON OIL COOLER ADAPTOR)	4.2000A
OIL FILTER (REMOTE MOUNTED)	4.2000A
OIL FILTER LINES (ADAPTOR ONLY)	4.3000A
OIL COOLER (ENGINE OIL)	4.4000A
OIL COOLER (ENGINE AND TORQUE CONVERTER OIL)	4.4000A
OIL FILLER (ON ROCKER COVER)	4.5000A
OIL FILLER (ON BREATHER)	4.5000A

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
IPSTICK (10 DEG. OPERATION, STAMPED PAN) (RING TYPE)	4.6000A	253
IPSTICK (20 DEG. OPERATION, CAST PAN) (RING TYPE)	4.6000A	267
IL PAN (10 DEG. OPERATION)	4.7000A	251
IL PAN (PLAIN) (20 DEG. OPERATION)	4.7000A	108
ENTILATING SYSTEM (PLAIN)	4.8000A	196
ENTILATING SYSTEM (WITH OIL FILLER)	4.8000A	222
FRESH WATER PUMP	5.1000	38
WATER OUTLET ELBOW (VERTICAL OUTLET)	5.2000A	67
WATER OUTLET ELBOW (HORIZONTAL OUTLET)	5.2000A	70
HERMOSTAT	5.2000B	72
WATER BY-PASS TUBE	5.2000C	130
RADIATOR (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	5.3000A	100
RADIATOR (WITH SHORT HOOD) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	5.3000A	80
WATER CONNECTIONS (WITH MANUAL OR NO SHUTDOWN) (WITH RADIATOR CONNECTIONS)	5.3000B	135
WATER CONNECTIONS (WITH MANUAL OR NO SHUTDOWN) (NO RADIATOR CONNECTIONS)	5.3000B	117
WATER CONNECTIONS (WITH MECHANICAL SHUTDOWN) (WITH RADIATOR CONNECTIONS)	5.3000B	136
WATER CONNECTIONS (WITH MECHANICAL SHUTDOWN) (NO RADIATOR CONNECTIONS)	5.3000B	122
AN (SUCTION, 22" - 5 BLADE, 1:1 RATIO)	5.4000A	276
AN (BLOWER, 22" - 5 BLADE, 1:1 RATIO)	5.4000A	280
AN (SUCTION, 18" - 5 BLADE, 1.25:1 RATIO)	5.4000A	281
AN (BLOWER, 18" - 6 BLADE, 1.25:1 RATIO)	5.4000A	282
EXHAUST MANIFOLD (WITH MANUAL OR NO SHUTDOWN)	6.1000A	217
EXHAUST MANIFOLD (VERTICAL CENTER OUTLET WITH MECHANICAL SHUTDOWN)	6.1000A	211
EXHAUST MANIFOLD (HORIZONTAL REAR OUTLET WITH MANUAL OR NO SHUTDOWN)	6.1000A	226
EXHAUST MUFFLER CONNECTIONS (3" PIPE THREAD)	6.2000A	234
EXHAUST MUFFLER CONNECTIONS (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	6.2000A	175
BATTERY CHARGING GENERATOR (12V., 25 AMP.)	7.1000A	816
STARTING MOTOR	7.3000A	255
INSTRUMENTS (TACHOMETER ONLY) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000A	390
INSTRUMENT PANEL (5' CAPILLARY TUBE)	7.4000A	372
INSTRUMENT PANEL (10' CAPILLARY TUBE)	7.4000A	373
INSTRUMENT PANEL (15' CAPILLARY TUBE)	7.4000A	374
TACHOMETER DRIVE (DRIVEN FROM BALANCER SHAFT) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000B	189
TACHOMETER DRIVE (DRIVEN FROM GOVERNOR SHAFT) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000B	181
TACHOMETER DRIVE (DRIVEN FROM BALANCER SHAFT) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000B	199
TACHOMETER DRIVE (DRIVEN FROM BALANCER SHAFT) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000B	201
MECHANICAL AUTOMATIC SHUTDOWN (WITHOUT OVERSPEED GOVERNOR) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000C	392
OVERSPEED GOVERNOR (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000C	635
POWER TAKE-OFF (SAE #4, 10" CLUTCH) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	8.1000A	180
ENGINE HOOD	10.1000A	NONE
ENGINE MOUNTING (TRUNNION MOUNTING, WITH CONE DRIVEN CRANKSHAFT PULLEY) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	11.1000A	430
ENGINE MOUNTING (TRUNNION MOUNTING WITH SOLID DRIVE CRANKSHAFT PULLEY) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	11.1000A	446
ENGINE MOUNTING (FRONT ONLY) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	11.1000A	306
COLD WEATHER STARTING AID (CAPSULE TYPE) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	12.6000C	3

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.
CYLINDER BLOCK	1.1000
AIR BOX DRAINS THRU 3D-9115	1.1000A
AIR BOX DRAINS EFF. WITH 3D-9116	1.1000A
CYLINDER HEAD	1.2000
ENGINE LIFTER BRACKET	1.2000A
CRANKSHAFT	1.3000
CRANKSHAFT FRONT COVER THRU 3D-122664	1.3000A
CRANKSHAFT FRONT COVER EFF. WITH 3D-122665	1.3000A
CRANKSHAFT PULLEY STD. EQUIP. PRIOR TO 3D-349	1.3000C
CRANKSHAFT PULLEY BELT	1.3000D
FLYWHEEL	1.4000A
FLYWHEEL HOUSING	1.5000A
CONNECTING ROD AND PISTON THRU 3D-145885	1.6000
CONNECTING ROD AND PISTON EFF. WITH 3D-145886	1.6000
CAMSHAFT AND GEAR TRAIN THRU 3D-170682	1.7000
CAMSHAFT AND GEAR TRAIN EFF. WITH 3D-170683	1.7000
VALVE OPERATING MECHANISM THRU 3D-162358	1.8000
VALVE OPERATING MECHANISM EFF. WITH 3D-162359 AND THRU 3D-170682	1.8000
VALVE OPERATING MECHANISM EFF. WITH 3D-170683	1.8000
ROCKER COVER	1.8000A
FUEL INJECTOR STD. EQUIP. PRIOR TO 3D-210	2.1000A
FUEL INJECTOR	2.1000A
FUEL PUMP THRU 3D-85494	2.2000
FUEL PUMP EFF. WITH 3D-85495 AND THRU 3D-158374	2.2000
FUEL PUMP EFF. WITH 3D-158375	2.2000
FUEL FILTER	2.3000A
FUEL MANIFOLD CONNECTIONS	2.4000
FUEL LINES	2.5000A
MECHANICAL GOVERNOR	2.7000A
INJECTOR CONTROLS THRU 3D-152790	2.9000
INJECTOR CONTROLS EFF. WITH 3D-152791	2.9000
THROTTLE CONTROLS	2.9000A
AIR INLET HOUSING	3.3000A
BLOWER THRU 3D-34007	3.4000
BLOWER EFF. WITH 3D-34008 AND THRU 3D-170682	3.4000
BLOWER EFF. WITH 3D-170683	3.4000
OIL PUMP	4.1000A
OIL DISTRIBUTION SYSTEM STD. EQUIP. PRIOR TO 3D-136	4.1000B
OIL DISTRIBUTION SYSTEM	4.1000B
OIL PRESSURE REGULATOR	4.1000C
OIL FILTER	4.2000A
OIL COOLER	4.4000A
OIL FILLER	4.5000A
DIPSTICK STD. EQUIP. PRIOR TO 3D-661	4.6000A
DIPSTICK	4.6000A
OIL PAN	4.7000A
VENTILATING SYSTEM	4.8000A
FRESH WATER PUMP STD. EQUIP. PRIOR TO 3D-437708	5.1000
WATER OUTLET ELBOW	5.2000A
THERMOSTAT	5.2000B
WATER BY-PASS TUBE	5.2000C
WATER CONNECTIONS	5.3000B
FAN	5.4000A
EXHAUST MANIFOLD	6.1000A
EXHAUST MUFFLER CONNECTIONS	6.2000A
BATTERY CHARGING GENERATOR	7.1000A
STARTING MOTOR	7.3000A
INSTRUMENTS	7.4000A

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	29
R BOX DRAINS	1.1000A	112
CYLINDER HEAD	1.2000	22
ENGINE LIFTER BRACKET	1.2000A	42
CRANKSHAFT	1.3000	20
CRANKSHAFT FRONT COVER THRU 3D-126481	1.3000A	48
CRANKSHAFT FRONT COVER EFF. WITH 3D-126482	1.3000A	119
TYRE WHEEL	1.4000A	559
TYRE WHEEL HOUSING	1.5000A	312
CONNECTING ROD AND PISTON THRU 3D-145885	1.6000	26
CONNECTING ROD AND PISTON EFF. WITH 3D-145886	1.6000	61
CRANKSHAFT AND GEAR TRAIN THRU 3D-170682	1.7000	32
CRANKSHAFT AND GEAR TRAIN EFF. WITH 3D-170683	1.7000	267
VALVE OPERATING MECHANISM THRU 3D-162358	1.8000	29
VALVE OPERATING MECHANISM EFF. WITH 3D-162359 AND THRU 3D-170682	1.8000	193
VALVE OPERATING MECHANISM EFF. WITH 3D-170683	1.8000	168
ROCKER COVER	1.8000A	38
FUEL INJECTOR N35	2.1000A	138
FUEL PUMP THRU 3D-85494	2.2000	34
FUEL PUMP EFF. WITH 3D-85495 AND THRU 3D-158374	2.2000	136
FUEL PUMP EFF. WITH 3D-158375	2.2000	178
FUEL FILTER	2.3000A	157
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES	2.5000A	501
FUEL LINE CHECK VALVE	2.5000A	766
MECHANICAL GOVERNOR STD. EQUIP. PRIOR TO 3D-103684	2.7000A	1707
INJECTOR CONTROLS THRU 3D-152790	2.9000	108
INJECTOR CONTROLS EFF. WITH 3D-152791	2.9000	278
IR INLET HOUSING THRU 3D-152975	3.3000A	139
IR INLET HOUSING EFF. WITH 3D-152976 (STD. EQUIP. PRIOR TO BEING SHOWN ON OPT. PLATE)	3.3000A	595
LOWER THRU 3D-170682	3.4000	114
LOWER EFF. WITH 3D-170683	3.4000	316
IL PUMP	4.1000A	49
IL DISTRIBUTION SYSTEM	4.1000B	169
IL PRESSURE REGULATOR	4.1000C	9
IL FILTER	4.2000A	226
IL COOLER	4.4000A	230
IL FILLER	4.5000A	44
IPSTICK	4.6000A	267
IL PAN	4.7000A	537
ENTILATING SYSTEM STD. EQUIP. PRIOR TO 3D-103684	4.8000A	222
FRESH WATER PUMP	5.1000	146
WATER OUTLET ELBOW	5.2000A	67
THERMOSTAT	5.2000B	72
WATER BY-PASS TUBE	5.2000C	318
WATER CONNECTIONS	5.3000B	117
EXHAUST MANIFOLD	6.1000A	217
TARTING MOTOR THRU 3D-137562	7.3000A	188
TARTING MOTOR EFF. WITH 3D-137563	7.3000A	302

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.
CYLINDER BLOCK	1.1000
AIR BOX DRAINS	1.1000A
CYLINDER HEAD	1.2000
ENGINE LIFTER BRACKET	1.2000A
CRANKSHAFT	1.3000
CRANKSHAFT FRONT COVER	1.3000A
CRANKSHAFT PULLEY	1.3000C
CRANKSHAFT PULLEY BELT	1.3000D
FLYWHEEL	1.4000A
FLYWHEEL HOUSING	1.5000A
CONNECTING ROD AND PISTON	1.6000
CAMSHAFT AND GEAR TRAIN	1.7000
VALVE OPERATING MECHANISM	1.8000
ROCKER COVER	1.8000A
FUEL INJECTOR	2.1000A
FUEL PUMP	2.2000
FUEL FILTER	2.3000A
FUEL MANIFOLD CONNECTIONS	2.4000
FUEL LINES	2.5000A
MECHANICAL GOVERNOR	2.7000A
INJECTOR CONTROLS	2.9000
AIR INLET HOUSING	3.3000A
BLOWER THRU 3D-34007	3.4000
BLOWER EFF. WITH 3D-34008	3.4000C
OIL PUMP	4.1000A
OIL DISTRIBUTION SYSTEM	4.1000B
OIL PRESSURE REGULATOR	4.1000C
OIL FILTER	4.2000A
OIL FILTER LINES	4.3000A
OIL COOLER	4.4000A
OIL FILLER	4.5000A
DIPSTICK	4.6000A
OIL PAN	4.7000A
VENTILATING SYSTEM	4.8000A
FRESH WATER PUMP	5.1000
WATER OUTLET ELBOW	5.2000A
THERMOSTAT	5.2000B
WATER BY-PASS TUBE	5.2000C
WATER CONNECTIONS	5.3000B
FAN	5.4000A
EXHAUST MANIFOLD	6.1000A
EXHAUST MUFFLER CONNECTIONS	6.2000A
BATTERY CHARGING GENERATOR	7.1000A
STARTING MOTOR	7.3000A

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	29
R BOX DRAINS THRU 3D-9115	1.1000A	32
R BOX DRAINS EFF. WITH 3D-9116	1.1000A	63
CYLINDER HEAD	1.2000	23
ENGINE LIFTER BRACKET	1.2000A	30
CRANKSHAFT	1.3000	20
CRANKSHAFT FRONT COVER STD. EQUIP. PRIOR TO 3D-115973 AND THRU 3D-122664	1.3000A	48
CRANKSHAFT FRONT COVER EFF. WITH 3D-122665	1.3000A	119
CRANKSHAFT PULLEY STD. EQUIP. PRIOR TO 3D-965	1.3000C	111
CRANKSHAFT PULLEY BELT	1.3000D	176
CRYSTAL WHEEL	1.4000A	296
CRYSTAL WHEEL HOUSING	1.5000A	185
CONNECTING ROD AND PISTON	1.6000	26
CRANKSHAFT AND GEAR TRAIN THRU 3D-170682	1.7000	32
CRANKSHAFT AND GEAR TRAIN EFF. WITH 3D-170683	1.7000	267
VALVE OPERATING MECHANISM THRU 3D-170682	1.8000	30
VALVE OPERATING MECHANISM EFF. WITH 3D-170683	1.8000	173
ROCKER COVER	1.8000A	39
FUEL INJECTOR THRU 3D-209	2.1000A	40
FUEL INJECTOR EFF. WITH 3D-210. STD. EQUIP. PRIOR TO 3D-2692	2.1000A	52
FUEL INJECTOR	2.1000A	76
FUEL PUMP THRU 3D-85494	2.2000	34
FUEL PUMP EFF. WITH 3D-85495	2.2000	136
FUEL FILTER	2.3000A	157
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES	2.5000A	416
MECHANICAL GOVERNOR	2.7000A	597
INJECTOR CONTROLS THRU 3D-152790	2.9000	108
INJECTOR CONTROLS EFF. WITH 3D-152791	2.9000	277
THROTTLE CONTROLS	2.9000A	504
CRANK INLET HOUSING	3.3000A	595
LOWER THRU 3D-34007	3.4000	60
LOWER EFF. WITH 3D-34008 AND THRU 3D-170682	3.4000	114
LOWER EFF. WITH 3D-170683	3.4000	316
WATER PUMP	4.1000A	49
WATER DISTRIBUTION SYSTEM STD. EQUIP. PRIOR TO 3D-136	4.1000B	235
WATER DISTRIBUTION SYSTEM	4.1000B	169
WATER PRESSURE REGULATOR	4.1000C	9
WATER FILTER	4.2000A	226
WATER COOLER	4.4000A	238
WATER FILLER	4.5000A	18
PSTICK STD. EQUIP. PRIOR TO 3D-652	4.6000A	107
PSTICK	4.6000A	253
WATER PAN	4.7000A	584
WATER HEATING SYSTEM	4.8000A	196
FRESH WATER PUMP STD. EQUIP. PRIOR TO 3D-43778	5.1000	146
WATER OUTLET MANIFOLD	5.2000A	67
THERMOSTAT	5.2000B	72
WATER BY-PASS TUBE	5.2000C	318
WATER CONNECTIONS	5.3000B	117
WATER IN	5.4000A	276
EXHAUST MANIFOLD	6.1000A	217
EXHAUST MUFFLER CONNECTIONS	6.2000A	234
BATTERY CHARGING GENERATOR	7.1000A	2062
STARTING MOTOR	7.3000A	302
INSTRUMENTS	7.4000A	372

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK THRU 3D-80124	1.1000	82
CYLINDER BLOCK EFF. WITH 3D-80125	1.1000	83
AIR BOX DRAINS	1.1000A	81
CYLINDER HEAD	1.2000	75
ENGINE LIFTER BRACKET	1.2000A	111
CRANKSHAFT	1.3000	41
CRANKSHAFT FRONT COVER	1.3000A	93
CRANKSHAFT PULLEY	1.3000C	275
FLYWHEEL	1.4000A	637
FLYWHEEL HOUSING	1.5000A	386
CONNECTING ROD AND PISTON	1.6000	80
CAMSHAFT AND GEAR TRAIN	1.7000	74
VALVE OPERATING MECHANISM	1.8000	57
ROCKER COVER	1.8000A	132
FUEL INJECTOR	2.1000A	87
FUEL PUMP	2.2000	96
FUEL PUMP AUXILIARY	2.2000	58
FUEL FILTER	2.3000A	403
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES	2.5000A	853
MECHANICAL GOVERNOR	2.7000A	868
INJECTOR CONTROLS	2.9000	108
THROTTLE CONTROLS	2.9000A	732
AIR INLET HOUSING	3.3000A	332
BLOWER	3.4000	114
OIL PUMP	4.1000A	49
OIL DISTRIBUTION SYSTEM	4.1000B	308
OIL PRESSURE REGULATOR	4.1000C	12
OIL FILTER	4.2000A	130
OIL FILTER LINES	4.3000A	131
OIL COOLER	4.4000A	466
OIL FILLER	4.5000A	86
DIPSTICK	4.6000A	492
OIL PAN	4.7000A	367
VENTILATING SYSTEM	4.8000A	440
FRESH WATER PUMP	5.1000	146
WATER OUTLET MANIFOLD	5.2000A	108
THERMOSTAT	5.2000B	157
WATER BY-PASS TUBE	5.2000C	355
WATER CONNECTIONS	5.3000B	223
EXHAUST MANIFOLD	6.1000A	288
BATTERY CHARGING GENERATOR	7.1000A	1363
STARTING MOTOR	7.3000A	272
TACHOMETER DRIVE	7.4000B	396
ENGINE MOUNTS	11.1000A	532
AIR COMPRESSOR	12.4000A	495
HYDRAULIC PUMP	12.5000A	109

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	29
CRANK BOX DRAINS	1.1000A	63
CYLINDER HEAD	1.2000	23
ENGINE LIFTER BRACKET	1.2000A	•
CRANKSHAFT	1.3000	20
CRANKSHAFT FRONT COVER	1.3000A	•
CRANKSHAFT PULLEY	1.3000C	•
TYRE WHEEL	1.4000A	•
TYRE WHEEL HOUSING	1.5000A	•
TYRE WHEEL HOUSING ADAPTOR	1.5000B	•
CONNECTING ROD AND PISTON-STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	1.6000	61
CONNECTING ROD AND PISTON	1.6000	•
AMSHAFT AND GEAR TRAIN THRU 3D-170682	1.7000	31
AMSHAFT AND GEAR TRAIN EFF. WITH 3D-170683	1.7000	265
VALANCE WEIGHT COVER	1.7000A	•
VALVE OPERATING MECHANISM THRU 3D-170682	1.8000	30
VALVE OPERATING MECHANISM EFF. WITH 3D-170683	1.8000	169
ROCKER COVER	1.8000A	•
FUEL INJECTOR	2.1000A	74
FUEL PUMP THRU 3D-85494	2.2000	34
FUEL PUMP EFF. WITH 3D-85495 AND THRU 3D-158374	2.2000	136
FUEL PUMP EFF. WITH 3D-158375	2.2000	178
FUEL FILTER	2.3000A	•
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES	2.5000A	•
MECHANICAL GOVERNOR	2.7000A	•
INJECTOR CONTROLS THRU 3D-153027	2.9000	99
INJECTOR CONTROLS EFF. WITH 3D-153028	2.9000	278
EXHAUST SILENCER	3.2000A	•
EXHAUST INLET HOUSING	3.3000A	•
LOWER THRU 3D-170682	3.4000	114
LOWER EFF. WITH 3D-170683 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	3.4000	316
LOWER	3.4000	•
WATER PUMP THRU 3D-186877	4.1000A	49
WATER PUMP EFF. WITH 3D-186878 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	4.1000A	166
WATER PUMP	4.1000A	•
WATER DISTRIBUTION SYSTEM	4.1000B	•
WATER PRESSURE REGULATOR	4.1000C	•
WATER FILTER STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	4.2000A	239
WATER FILTER	4.2000A	•
WATER COOLER (ENGINE) STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	4.4000A	230
WATER COOLER (ENGINE)	4.4000A	•
WATER COOLER (MARINE GEAR)	4.4000A	•
WATER FILLER	4.5000A	•
WATER PISTON	4.6000A	•
WATER PAN	4.7000A	•
WATER FILTRATING SYSTEM	4.8000A	•
WATER PUMP	5.1000	•
WATER THERMOSTAT STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	5.2000B	72
WATER THERMOSTAT	5.2000B	•
WATER BY-PASS TUBE	5.2000C	•
WATER CONNECTIONS	5.3000B	•
EXHAUST MANIFOLD	6.1000A	•
EXHAUST MUFFLER CONNECTIONS	6.2000A	•
BATTERY CHARGING GENERATOR	7.1000A	•
STARTING MOTOR	7.3000A	•
ENGINE MOUNTS	11.1000A	•

STANDARD OPTION REFER TO OPTION PLATE.

DETROIT DIESEL 53 MPC ENGINES

5033-6295

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.
CYLINDER BLOCK	1.1000
AIR BOX DRAINS	1.1000A
CYLINDER HEAD	1.2000
ENGINE LIFTER BRACKET STD. EQUIP. PRIOR TO 3D-190557	1.2000A
CRANKSHAFT	1.3000
CRANKSHAFT FRONT COVER THRU 3D-186877	1.3000A
CRANKSHAFT PULLEY STD. EQUIP. PRIOR TO 3D-184934	1.3000C
FLYWHEEL	1.4000A
FLYWHEEL HOUSING STD. EQUIP. PRIOR TO 3D-190557	1.5000A
CONNECTING ROD AND PISTON-STD. EQUIP. PRIOR TO 3D-185417	1.6000
CAMSHAFT AND GEAR TRAIN THRU 3D-170682	1.7000
CAMSHAFT AND GEAR TRAIN EFF. WITH 3D-170683	1.7000
BALANCE WEIGHT COVER EFF. WITH 3D-186878	1.7000A
VALVE OPERATING MECHANISM THRU 3D-170682	1.8000
VALVE OPERATING MECHANISM EFF. WITH 3D-170683	1.8000
ROCKER COVER STD. EQUIP. PRIOR TO 3D-190557	1.8000A
FUEL INJECTOR THRU 3D-78962	2.1000A
FUEL INJECTOR EFF. WITH 3D-78963, STD. EQUIP. PRIOR TO 3D-93702	2.1000A
FUEL PUMP THRU 3D-85494	2.2000
FUEL PUMP EFF. WITH 3D-85495 AND THRU 4D-163133	2.2000
FUEL PUMP EFF. WITH 4D-163134	2.2000
FUEL FILTER STD. EQUIP. PRIOR TO 3D-190557	2.3000A
FUEL MANIFOLD CONNECTIONS	2.4000
FUEL LINES STD. EQUIP. PRIOR TO 3D-190557	2.5000A
MECHANICAL GOVERNOR STD. EQUIP. PRIOR TO 3D-93702	2.7000A
INJECTOR CONTROLS THRU 3D-153026	2.9000
INJECTOR CONTROLS EFF. WITH 3D-153027; STD. EQUIP. PRIOR TO 3D-190557	2.9000
THROTTLE CONTROLS STD. EQUIP. PRIOR TO 3D-165142	2.9000A
BLOWER THRU 3D-170682	3.4000
BLOWER EFF. WITH 3D-170683; STD. EQUIP. PRIOR TO 3D-190557	3.4000
OIL PUMP	4.1000A
OIL DISTRIBUTION SYSTEM THRU 3D-81923	4.1000B
OIL DISTRIBUTION SYSTEM EFF. WITH 3D-81924 STD. EQUIP. PRIOR TO 3D-190557	4.1000B
OIL FILTER STD. EQUIP. PRIOR TO 3D-190557	4.2000A
OIL COOLER STD. EQUIP. PRIOR TO 3D-190557	4.4000A
OIL FILLER STD. EQUIP. PRIOR TO 3D-190557	4.5000A
DIPSTICK STD. EQUIP. PRIOR TO 3D-190128	4.6000A
OIL PAN THRU 3D-81923	4.7000A
OIL PAN EFF. WITH 3D-81924; STD. EQUIP. PRIOR TO 3D-190557	4.7000A
FRESH WATER PUMP	5.1000
WATER OUTLET MANIFOLD STD. EQUIP. PRIOR TO 3D-190557	5.2000A
THERMOSTAT STD. EQUIP. PRIOR TO 3D-190557	5.2000B
WATER BY-PASS TUBE STD. EQUIP. PRIOR TO 3D-190557	5.2000C
WATER CONNECTIONS STD. EQUIP. PRIOR TO 3D-190557	5.3000B
FAN	5.4000A
EXHAUST MANIFOLD STD. EQUIP. PRIOR TO 3D-190557	6.1000A
STARTING MOTOR THRU 3D-143080	7.3000A
STARTING MOTOR EFF. WITH 3D-143081 STD. EQUIP. PRIOR TO 3D-165142	7.3000A
STARTING MOTOR	7.3000A
AIR HEATER STD. EQUIP. PRIOR TO 3D-190557	7.8000A

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	29
CRANK BOX DRAINS	1.1000A	63
CYLINDER HEAD	1.2000	23
ENGINE LIFTER BRACKET	1.2000A	•
CRANKSHAFT	1.3000	20
CRANKSHAFT FRONT COVER	1.3000A	•
CRANKSHAFT PULLEY	1.3000C	•
CRANKSHAFT PULLEY BELT	1.3000D	•
TYRE WHEEL	1.4000A	•
TYRE WHEEL HOUSING	1.5000A	•
CONNECTING ROD AND PISTON STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	1.6000	61
CONNECTING ROD AND PISTON	1.6000	•
AMSHAFT AND GEAR TRAIN THRU 3D-154535	1.7000	31
AMSHAFT AND GEAR TRAIN EFF. WITH 3D-154536 AND THRU 3D-170682	1.7000	220
AMSHAFT AND GEAR TRAIN EFF. WITH 3D-170683	1.7000	265
VALVE WEIGHT COVER	1.7000A	•
VALVE OPERATING MECHANISM THRU 3D-170682	1.8000	30
VALVE OPERATING MECHANISM EFF. WITH 3D-170683, STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	1.8000	169
VALVE OPERATING MECHANISM	1.8000	•
ROCKER COVER	1.8000A	•
FUEL INJECTOR	2.1000A	•
FUEL PUMP THRU 3D-158374	2.2000	127
FUEL PUMP EFF. WITH 3D-158375	2.2000	180
FUEL FILTER	2.3000A	•
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES	2.5000A	•
MECHANICAL GOVERNOR	2.7000A	•
INJECTOR CONTROLS THRU 3D-151863	2.9000	121
INJECTOR CONTROLS EFF. WITH 3D-151864	2.9000	279
THROTTLE CONTROLS	2.9000A	•
CRANK INLET HOUSING	3.3000A	•
LOWER THRU 3D-170682	3.4000	114
LOWER EFF. WITH 3D-170683 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	3.4000	316
LOWER	3.4000	•
IL PUMP THRU 3D-186877	4.1000A	49
IL PUMP EFF. WITH 3D-186878	4.1000A	166
IL DISTRIBUTION SYSTEM	4.1000B	•
IL PRESSURE REGULATOR	4.1000C	•
IL PRESSURE REGULATOR STD. EQUIP. EFF. WITH 3D-186878	4.1000C	9
IL FILTER	4.2000A	•
IL COOLER	4.4000A	•
IL FILLER	4.5000A	•
IPSTICK	4.6000A	•
IL PAN	4.7000A	•
VENTILATING SYSTEM	4.8000A	•
FRESH WATER PUMP	5.1000	•
WATER OUTLET ELBOW	5.2000A	•
THERMOSTAT	5.2000B	72
WATER BY-PASS TUBE	5.2000C	•
WATER CONNECTIONS	5.3000B	•
MAN	5.4000A	•
EXHAUST MANIFOLD	6.1000A	•
EXHAUST MUFFLER CONNECTIONS	6.2000A	•
BATTERY CHARGING GENERATOR	7.1000A	•
STARTING MOTOR	7.3000A	•
STANDARD OPTION REFER TO OPTION PLATE.		

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.
CYLINDER BLOCK	1.1000
AIR BOX DRAINS	1.1000A
CYLINDER HEAD	1.2000
ENGINE LIFTER BRACKET	1.2000A
CRANKSHAFT	1.3000
CRANKSHAFT FRONT COVER	1.3000A
CRANKSHAFT PULLEY	1.3000C
CRANKSHAFT PULLEY BELT	1.3000D
FLYWHEEL	1.4000A
FLYWHEEL HOUSING	1.5000A
CONNECTING ROD AND PISTON STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	1.6000
CONNECTING ROD AND PISTON	1.6000
CAMSHAFT AND GEAR TRAIN THRU 3D-154535	1.7000
CAMSHAFT AND GEAR TRAIN EFF. WITH 3D-154536 AND THRU 3D-170682	1.7000
CAMSHAFT AND GEAR TRAIN EFF. WITH 3D-170683, STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	1.7000
CAMSHAFT AND GEAR TRAIN	1.7000
BALANCE WEIGHT COVER	1.7000A
VALVE OPERATING MECHANISM THRU 3D-170682	1.8000
VALVE OPERATING MECHANISM EFF. WITH 3D-170683, STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	1.8000
VALVE OPERATING MECHANISM	1.8000
ROCKER COVER	1.8000A
FUEL INJECTOR	2.1000A
FUEL PUMP STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	2.2000
FUEL PUMP	2.2000
FUEL FILTER	2.3000A
FUEL MANIFOLD CONNECTIONS	2.4000
FUEL LINES	2.5000A
MECHANICAL GOVERNOR	2.7000A
INJECTOR CONTROLS THRU 3D-151863	2.9000
INJECTOR CONTROLS EFF. WITH 3D-151864, STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	2.9000
INJECTOR CONTROLS	2.9000
THROTTLE CONTROLS	2.9000A
AIR INLET HOUSING	3.3000A
BLOWER THRU 3D-170682	3.4000
BLOWER EFF. WITH 3D-170683, STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	3.4000
BLOWER	3.4000
OIL PUMP STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	4.1000A
OIL PUMP	4.1000A
OIL DISTRIBUTION SYSTEM	4.1000B
OIL PRESSURE REGULATOR	4.1000C
OIL FILTER	4.2000A
OIL COOLER	4.4000A
OIL FILLER	4.5000A
DIPSTICK	4.6000A
OIL PAN	4.7000A
VENTILATING SYSTEM	4.8000A
FRESH WATER PUMP	5.1000
WATER OUTLET ELBOW	5.2000A
THERMOSTAT STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	5.2000B
THERMOSTAT	5.2000B
WATER BY-PASS TUBE	5.2000C
WATER CONNECTIONS	5.3000B
FAN	5.4000A
EXHAUST MANIFOLD	6.1000A
EXHAUST MUFFLER CONNECTIONS	6.2000A
BATTERY CHARGING GENERATOR	7.1000A
STARTING MOTOR	7.3000A

• STANDARD OPTION REFER TO OPTION PLATE.

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	29
AIR BOX DRAINS	1.1000A	63
CYLINDER HEAD	1.2000	23
ENGINE LIFTER BRACKET	1.2000A	•
CRANKSHAFT	1.3000	20
CRANKSHAFT FRONT COVER	1.3000A	•
CRANKSHAFT PULLEY	1.3000C	•
CRANKSHAFT PULLEY BELT	1.3000D	•
LYWHEEL	1.4000A	•
LYWHEEL HOUSING	1.5000A	•
CONNECTING ROD AND PISTON STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	1.6000	61
CONNECTING ROD AND PISTON	1.6000	•
AMSHAFT AND GEAR TRAIN THRU 3D-170682	1.7000	220
AMSHAFT AND GEAR TRAIN EFF. WITH 3D-170683	1.7000	265
ALANCE WEIGHT COVER	1.7000A	•
VALVE OPERATING MECHANISM THRU 3D-170682	1.8000	30
VALVE OPERATING MECHANISM EFF. WITH 3D-170683	1.8000	169
ROCKER COVER	1.8000A	•
FUEL INJECTOR	2.1000A	•
FUEL PUMP THRU 3D-158374	2.2000	127
FUEL PUMP EFF. WITH 3D-158375	2.2000	180
FUEL FILTER	2.3000A	•
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES	2.5000A	•
HYDRAULIC GOVERNOR	2.8000A	•
VEJECTOR CONTROLS	2.9000	•
AIR INLET HOUSING	3.3000A	•
FLOWER THRU 3D-170682	3.4000	114
FLOWER EFF. WITH 3D-170683; STD. EQUIP. PRIOR TO 3D-190557	3.4000	316
IL PUMP THRU 3D-186877	4.1000A	49
IL PUMP EFF. WITH 3D-186878	4.1000A	166
IL DISTRIBUTION SYSTEM	4.1000B	•
IL PRESSURE REGULATOR	4.1000C	•
IL PRESSURE REGULATOR STD. EQUIP. EFF. WITH 3D-186878	4.1000C	9
IL FILTER	4.2000A	•
IL COOLER	4.4000A	•
IL FILLER	4.5000A	•
IPSTICK	4.6000A	•
IL PAN	4.7000A	•
ENTILATING SYSTEM	4.8000A	•
FRESH WATER PUMP	5.1000	•
WATER OUTLET MANIFOLD	5.2000A	•
HERMOSTAT STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	5.2000B	72
HERMOSTAT	5.2000B	•
WATER BY-PASS TUBE	5.2000C	•
WATER CONNECTIONS	5.3000B	•
AN	5.4000A	•
XHAUST MANIFOLD	6.1000A	•
XHAUST MUFFLER CONNECTIONS	6.2000A	•
TARTING MOTOR	7.3000A	•
STANDARD OPTION REFER TO OPTION PLATE.		