

# **DETROIT DIESEL**

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## **Series 53 Parts Catalog**

***Volume 1***

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# 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).**

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## **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

## GENERAL INFORMATION

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     |
|------|---------------|------|----------------|------|------------------|------|---------------|
| 100  | F/W HOUSING   | 200  | FLYWHEEL       | 300  | OIL PAN          | 400  | OIL DIST      |
| 101  | OIL FIL CAP   | 201  | OIL COOLER     | 301  | DIPSTICK         | 401  | OIL FILTER    |
| 102  | VENT SYSTEM   | 202  | C/S COVER      | 302  | OIL PRESS REG    | 402  | FAN           |
| 103  | C/S PULLEY    | 203  | C/S POL BELT   | 303  | WATER PUMP       | 403  | WATER CONN    |
| 104  | WAT BY-PASS   | 204  | THERMOSTAT     | 304  | WAT OILY FLRO    | 404  | EXH MFLD      |
| 105  | FUEL PUMP     | 205  | INJECTOR NAS   | 305  | FUEL FILTER      | 405  | FUEL LINES    |
| 106  | AIR INLT HSG  | 206  | THROTTLE CONT  | 306  | THROTTLE CONT    | 406  | GOVERNOR MECH |
| 107  | ENGINE MOUNTS | 207  | CAM/GR TRAIN   | 307  | ROCKER COVER     | 407  | FAST CHRG GEN |
| 108  | STARTING MTR  | 208  | MUFFLER CONN   | 308  | INSTRUMENTS      | 408  | TACH DRIVE    |
| 109  | INSTRUMENTS   | 209  | GOV'T WARRANTY | 309  | MAX RPM HL D2950 | 409  | PART CHRG GEN |
| 110  | UNIT          | 210  | MODEL          | 310  | STD GT-STD CAM   | 410  |               |

SERIAL NO. 1770-01696 MODEL 5063-5000  
DETROIT DIESEL ALLISON DIV G.M.C. U.S.A.



# DETROIT DIESEL

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## 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 can not readily be determined. Parts are listed alphabetically by noun name, followed by a description of the application of the part and the final group location.

## 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

|               |                                            |                |                                                  |
|---------------|--------------------------------------------|----------------|--------------------------------------------------|
| <b>1.0000</b> | <b>ENGINE (less major assemblies)</b>      | <b>5.0000</b>  | <b>COOLING SYSTEM (CONT'D)</b>                   |
| 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                          | <b>6.0000</b>  | <b>EXHAUST SYSTEM</b>                            |
| 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                   | <b>7.0000</b>  | <b>ELECTRICAL INSTRUMENTS</b>                    |
| 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)                      |
| <b>2.0000</b> | <b>FUEL SYSTEM</b>                         | 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                          | <b>8.0000</b>  | <b>POWER TAKE-OFF</b>                            |
| 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)          |                |                                                  |
| <b>3.0000</b> | <b>AIR SYSTEM</b>                          | <b>9.0000</b>  | <b>TRANSMISSION AND PROPULSION</b>               |
| 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       | Bicer End Plate Cover                      | 9.7000         | Transmission—Off-highway                         |
| 3.5000A       | Turbocharger, Intercooler, and Aftercooler | 9.9000         | Transmission—Rail Car                            |
| <b>4.0000</b> | <b>LUBRICATING SYSTEM</b>                  | <b>10.0000</b> | <b>SHEET METAL</b>                               |
| 4.1000A       | Oil Pump                                   | 10.1000A       | Engine Hood                                      |
| 4.1000B       | Oil Distribution System                    |                |                                                  |
| 4.1000C       | Oil Pressure Regulator                     | <b>11.0000</b> | <b>ENGINE MOUNTING</b>                           |
| 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                                 | <b>12.0000</b> | <b>MISCELLANEOUS</b>                             |
| 4.6000A       | Dipstick                                   | 12.2000A       | Bilge Pump                                       |
| 4.7000A       | Oil Pan                                    | 12.3000A       | Vacuum Pump                                      |
| 4.8000A       | Ventilating System                         | 12.4000A       | Air Compressor                                   |
| <b>5.0000</b> | <b>COOLING SYSTEM</b>                      | 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.                              |           |                                                     |           |
| <b>A</b>                                         |           |                                                     |           |
| 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>B</b>                                         |           |                                                     |           |
| BAFFLE, AIR CLEANER                              | 3. 1045   | BEARING, THRUST CLUTCH HOUSING GEAR                 | 9. 1041   |
| BAFFLE, BREATHER                                 | 4. 8025   | BELL CRANK ASSY., GOVERNOR OPERATING                | 2. 8965   |
| BAFFLE, GENERATOR FAN                            | 7. 1470   | BELL CRANK, GOVERNOR TO INJECTOR LINK               | 2. 7823   |
| BAFFLE, MARINE GEAR HOUSING OIL                  | 9. 1380   | BELL, ALARM SYSTEM                                  | 7. 4513   |
| BAFFLE, MARINE GEAR OIL                          | 9. 1380   | BELLOWS ASSY., AIR SHUTDOWN                         | 3. 4414   |
| BAFFLE, OIL PAN                                  | 4. 7045   | BELT, ACCESSORY DRIVE                               | 1. 7625   |
| BAFFLE, REDUCTION HOUSING OIL                    | 9. 1386   | BELT, AIR COMPRESSOR DRIVE                          | 12. 4045  |
| BALL HEAD ASSY., GOVERNOR                        | 2. 8560   | BELT, CRANKSHAFT PULLEY DRIVE                       | 1. 3320   |
| BALL HEAD, HYDRAULIC OVERSPEED TRIP GOVERNOR     | 7. 4617   | BELT, FRESH WATER PUMP DRIVE                        | 5. 1215   |
| BASE KIT, GOVERNOR                               | 2. 8690   | BELT, GENERATOR DRIVE                               | 7. 1575   |
| BASE, ENGINE MOUNTING                            | 11. 1001  | BELT, HYDRAULIC STARTER ENGINE PUMP DRIVE           | 12. 6676  |
| BASE, 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</b>                                 |           | <b>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   |
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| 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 BREATHER                                            | 4. 8005   |
| SWITCH, OVERSPEED TRIP GOVERNOR                     | 7. 4659   | TUBE, HEAT EXCHANGER RAW WATER INLET<br>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   |
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## ALPHABETICAL INDEX

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| TUBE, OIL PRESSURE SWITCH RETURN          | 7. 4597   | VALVE, INJECTOR CHECK                    | 2. 1200   |
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| 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   |
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| 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   |
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| TUBE, WATER HEATER SUPPLY                 | 12.6407   | WASHER, CAM AND BALANCE SHAFT END        |           |
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| VALVE MECHANISM                           | 1. 8000   | WEIGHT ASSY., GOVERNOR                   | 8. 3405   |
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| VALVE, AIR INLET HOUSING SHUTDOWN         | 3. 3040   | WEIGHT, OVERSPEED TRIP GOVERNOR          | 7. 4625   |
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| VALVE, HYDRAULIC STARTER ACCUMULATOR      | 12.6576   | WORM, VERNIER THROTTLE CONTROL           | 2. 9139   |
| VALVE, HYDRAULIC STARTER CONTROL          | 12.6518   |                                          |           |
| VALVE, HYDRAULIC STARTER ENGINE PUMP      |           | <b>Y</b>                                 |           |
| CHECK                                     | 12.6615   | YOKE, CLUTCH RELEASE                     | 8. 1275   |
| VALVE, HYDRAULIC STARTER ENGINE PUMP      |           | YOKE, HYDRAULIC STARTER CLUTCH           | 12.6508   |
| RELIEF                                    | 12.6620   |                                          |           |
| VALVE, HYDRAULIC STARTER HAND PUMP        |           |                                          |           |
| CHECK                                     | 12.6640   |                                          |           |
| VALVE, HYDRAULIC STARTER HAND PUMP RELIEF | 12.6635   |                                          |           |
| VALVE, HYDRAULIC STARTER HAND PUMP        |           |                                          |           |
| SHUTOFF                                   | 12.6650   |                                          |           |

**MODEL  
INDEXES**

# **MODEL INDEXES**

# MODEL DESCRIPTION CHART IN-LINE ENGINES

5 0 4 3 - 5 1 0 0

| SERIES<br>53 | NUMBER<br>OF<br>CYLINDERS | APPLICATION<br>DESIGNATION<br>(see below) | BASIC ENGINE<br>ARRANGEMENTS<br>*(see below) | DESIGN<br>VARIATION<br>(see below) | SPECIFIC MODEL NUMBER<br>AND STARTER-BLOWER<br>ARRANGEMENT |
|--------------|---------------------------|-------------------------------------------|----------------------------------------------|------------------------------------|------------------------------------------------------------|
|--------------|---------------------------|-------------------------------------------|----------------------------------------------|------------------------------------|------------------------------------------------------------|

## 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

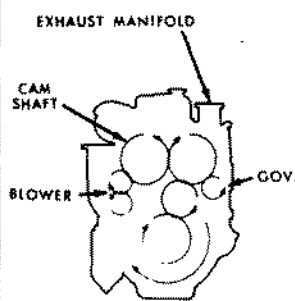
## STARTER-BLOWER ARRANGEMENT

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

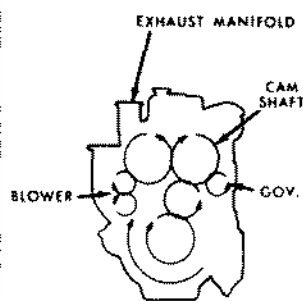
## \*2, 3, 4-53 BASIC ENGINE ARRANGEMENTS

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

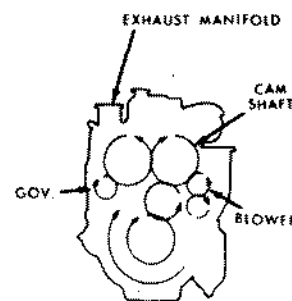
Type: A-B-C-D designates location of  
exhaust manifold and blower  
as viewed from the rear (flywheel) end.



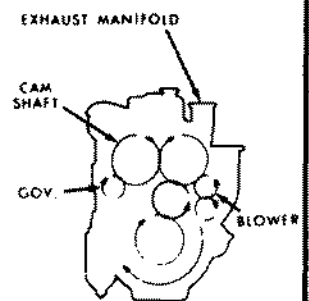
LA (XXXX-1XXX)



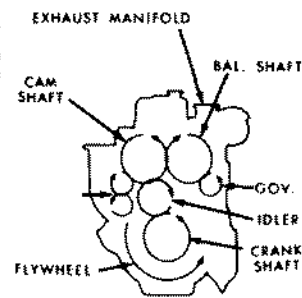
LB (XXXX-2XXX)



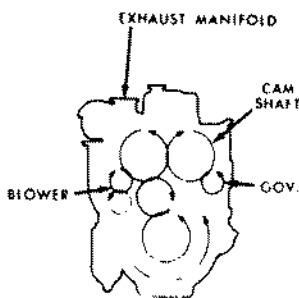
LC (XXXX-3XXX)



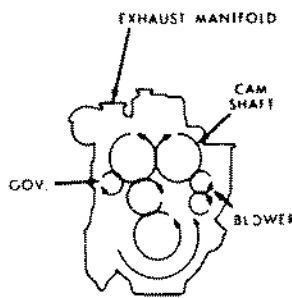
LD (XXXX-4XXX)



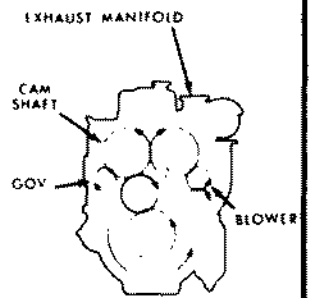
RA (XXXX-5XXX)



RB (XXXX-6XXX)



RC (XXXX-7XXX)

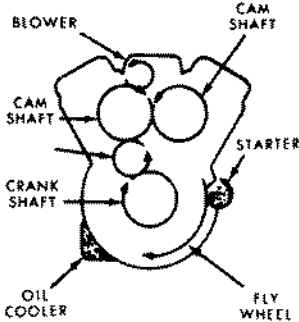
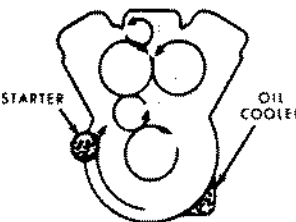
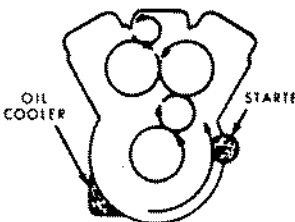
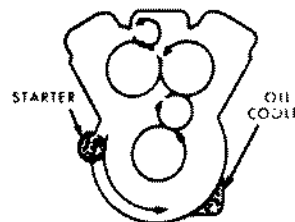


RD (XXXX-8XXX)

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<br>53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | NUMBER<br>OF<br>CYLINDERS | APPLICATION<br>DESIGNATION<br>(see below) | BASIC ENGINE<br>ARRANGEMENTS<br>(see below) | DESIGN<br>VARIATION<br>(see below) | SPECIFIC<br>MODEL<br>NUMBER |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------|---------------------------------------------|------------------------------------|-----------------------------|
| <p><b>APPLICATION DESIGNATION</b></p> <p>5062-7200 MARINE<br/> 5063-7200 FAN TO F/W-INDUSTRIAL<br/> 5064-7200 POWER-BASE<br/> 5065-7200 GENERATOR<br/> 5067-7200 FAN TO F/W-AUTOMOTIVE</p> <p><b>BASIC ENGINE ARRANGEMENTS:</b></p> <p>Rotation: L (left) and R (right) designates rotation viewed from the <u>front</u> of engine.</p> <p>Type: A-B-C-D designates location of starter and oil cooler as viewed from the <u>rear</u> (flywheel) end.</p> <p>Cylinder Bank: Left and right cylinder banks are determined from <u>rear</u> of engine.</p> <p><b>DESIGN VARIATIONS</b></p> <p>5063-7000 "N" ENGINE<br/> 5063-7200 4 VALVE HEAD<br/> 5063-5397 TURBOCHARGED</p> |                           |                                           |                                             |                                    |                             |
| <div>  <p>LA (XXXX-1XXX)</p> </div> <div>  <p>LC (XXXX-3XXX)</p> </div> <div>  <p>RA (XXXX-5XXX)</p> </div> <div>  <p>RC (XXXX-7XXX)</p> </div>                                                                                                                                                                               |                           |                                           |                                             |                                    |                             |
| <p>ALL VIEWS FROM FLYWHEEL (REAR) END OF ENGINE<br/> ENGINE ROTATION DETERMINED BY VIEWING ENGINE FROM BALANCE WEIGHT COVER (FRONT) END</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |                                           |                                             |                                    |                             |



|           |                                                             |
|-----------|-------------------------------------------------------------|
| 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                         |
| 5034-5101 | 3-53 2 VALVE HEAD, STARTER ON RIGHT                                |
| 5034-7098 | 3-53 4 VALVE HEAD, STARTER ON RIGHT                                |
| 5034-7101 | 3-53 2 VALVE HEAD, STARTER ON LEFT                                 |
| 5034-7201 | 3-53 4 VALVE HEAD, STARTER ON LEFT                                 |
| 5034-7203 | 3-53 4 VALVE HEAD, STARTER ON LEFT                                 |
| 5034-7298 | 3-53 4 VALVE HEAD, STARTER ON RIGHT                                |
| 5034-8000 | 3-53N ENGINE, 4 VALVE HEAD, STARTER ON LEFT, HEAT EXCHANGER COOLED |
| 5034-8100 | 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         |

|           |                                                                             |
|-----------|-----------------------------------------------------------------------------|
| 5060-5000 | 6V53 N ENGINE, STARTER ON RIGHT, (DISTRIBUTOR EXCHANGE UNIT)                |
| 5062-3000 | 6V53 N ENGINE, STARTER ON LEFT, STARBOARD                                   |
| 5062-3200 | 6V53 4 VALVE HEAD, STARTER ON LEFT, STARBOARD                               |
| 5062-7000 | 6V53 N ENGINE, STARTER ON LEFT, PORT                                        |
| 5062-7050 | 6V53 4-VALVE MARINE PROPULSION PORT UNIT                                    |
| 5062-7200 | 6V53 4 VALVE HEAD, STARTER ON LEFT, PORT                                    |
| 5062-7300 | 6V53 4 VALVE HEAD, MARINE PROP TURBO UNIT                                   |
| 5062-7301 | 6V53 4 VALVE HEAD MARINE PROP. TURBO UNIT                                   |
| 5062-7303 | 6V53 4 VALVE HEAD, MARINE PROPULSION PORT TURBO UNIT                        |
| 5063-5000 | 6V53 4 VALVE HEAD, STARTER ON RIGHT                                         |
| 5063-5001 | 6V53 4 VALVE HEAD, S & S DIESEL DRIVE MARINE                                |
| 5063-5002 | 6V53 4 VALVE HEAD, INDUSTRIAL FAN TO FLYWHEEL                               |
| 5063-5030 | 6V53 N ENGINE, STARTER ON RIGHT                                             |
| 5063-5050 | 6V53 4 VALVE HEAD, BRASIL                                                   |
| 5063-5080 | 6V53 FAN TO FLYWHEEL INDUSTRIAL UNIT                                        |
| 5063-5096 | 6V53 FAN TO FLYWHEEL INDUSTRIAL, FOR MILITARY APPLICATION                   |
| 5063-5097 | 6V53 4 VALVE HEAD, FOR NAPCO SHOET VEHICLE                                  |
| 5063-5098 | 6V53 4 VALVE HEAD, STARTER ON RIGHT (REPOWER UNIT FOR M3 AND M5 HALF TRACK) |
| 5063-5099 | 6V53 4 VALVE HEAD, STARTER ON RIGHT                                         |
| 5063-5200 | 6V53 4 VALVE HEAD, STARTER ON RIGHT                                         |
| 5063-5296 | 6V53 4 VALVE HEAD, STARTER ON RIGHT                                         |
| 5063-5299 | 6V53 4 VALVE HEAD, STARTER ON RIGHT                                         |
| 5063-5300 | 6V53 4 VALVE HEAD, TURBOCHARGED, BRASIL                                     |
| 5063-5390 | 6V53 4 VALVE HEAD, TURBOCHARGED, FOR SWEDISH S-TANK                         |
| 5063-5391 | 6V53 FAN TO FLYWHEEL TURBOCHARGED STANDARD AND STANDARD OPTION EQUIPMENT    |
| 5063-5392 | 6V53 4 VALVE HEAD, TURBOCHARGED, FOR FMC M730 CHAPARRAL RISE VEHICLE        |
| 5063-5393 | 6V53 4 VALVE HEAD, TURBOCHARGED US ARMY VEHICLE M113A3                      |
| 5063-5394 | 6V53 4 VALVE HEAD, FOR PERSONNEL CARRIER                                    |
| 5063-5395 | 6V53 4 VALVE HEAD, TURBOCHARGED, FOR M-551 SHERIDAN TANK                    |
| 5063-5396 | 6V53 4 VALVE HEAD, TURBOCHARGED, FOR ARMED INFANTRY FIGHTING VEHICLE        |
| 5063-5397 | 6V53 4 VALVE HEAD, STARTER ON RIGHT (REPOWER UNIT FOR M-24)                 |
| 5063-5398 | 6V53 4 VALVE HEAD, STARTER ON RIGHT, TURBOCHARGED                           |
| 5063-5399 | 6V53 4 VALVE HEAD, STARTER ON RIGHT                                         |
| 5063-7000 | 6V53 4 VALVE HEAD, STARTER ON LEFT                                          |
| 5063-7200 | 6V53 4 VALVE HEAD, STARTER ON LEFT                                          |
| 5064-5200 | 6V53 4 VALVE HEAD, STARTER ON LEFT                                          |
| 5082-5000 | 8V53 N ENGINE, STARTER ON RIGHT, PORT OR STARBOARD                          |
| 5083-5000 | 8V53 N ENGINE, STARTER ON RIGHT                                             |
| 5083-5399 | 8V53-4 VALVE HEAD, TURBOCHARGED, U.S. MARINE CORP.                          |

## DETROIT DIESEL 53 MPC ENGINES

5020-7101

## 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   |
| FLYWHEEL HOUSING .....          | 1.5000A   | 178  |
| 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 .....                 | 2.2000    | 33   |
| FUEL MANIFOLD CONNECTIONS ..... | 2.4000    | 48   |
| MECHANICAL GOVERNOR .....       | 2.7000A   | 594  |
| INJECTOR CONTROLS .....         | 2.9000    | 88   |
| BLOWER THRU 2D-20910 .....      | 3.4000    | 68   |
| BLOWER EFF. WITH 2D-20911 ..... | 3.4000    | 120  |
| OIL PUMP .....                  | 4.1000A   | 53   |
| OIL DISTRIBUTION SYSTEM .....   | 4.1000B   | 170  |
| OIL PRESSURE REGULATOR .....    | 4.1000C   | 9    |
| OIL COOLER .....                | 4.4000A   | 231  |
| OIL FILLER .....                | 4.5000A   | 18   |
| DIPSTICK .....                  | 4.6000A   | 285  |
| OIL PAN .....                   | 4.7000A   | 109  |
| VENTILATING SYSTEM .....        | 4.8000A   | 195  |
| FRESH WATER PUMP .....          | 5.1000    | 38   |
| WATER OUTLET .....              | 5.2000A   | 67   |
| THERMOSTAT .....                | 5.2000B   | 72   |
| WATER BY-PASS TUBE .....        | 5.2000C   | 130  |
| WATER CONNECTIONS .....         | 5.3000B   | 122  |

## 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   |
| FLYWHEEL                                        | 1.4000A   | 296  |
| FLYWHEEL HOUSING                                | 1.5000A   | 185  |
| 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    | 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  |
| BLOWER                                          | 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   |
| DIPSTICK 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  |
| FAN                                             | 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  |

## DETROIT DIESEL 53 MPC ENGINES

5023-5103

## 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   | 54   |
| CRANKSHAFT PULLEY .....           | 1.3000C   | 117  |
| CRANKSHAFT PULLEY BELT .....      | 1.3000D   | 101  |
| FLYWHEEL .....                    | 1.4000A   | 305  |
| FLYWHEEL HOUSING .....            | 1.5000A   | 193  |
| CONNECTING ROD AND PISTON .....   | 1.6000    | 25   |
| CAMSHAFT AND GEAR TRAIN .....     | 1.7000    | 37   |
| BALANCE WEIGHT COVER .....        | 1.7000A   | 496  |
| VALVE OPERATING MECHANISM .....   | 1.8000    | 28   |
| ROCKER COVER .....                | 1.8000A   | 36   |
| FUEL INJECTOR .....               | 2.1000A   | 41   |
| FUEL PUMP .....                   | 2.2000    | 34   |
| FUEL FILTER .....                 | 2.3000A   | 185  |
| FUEL MANIFOLD CONNECTIONS .....   | 2.4000    | 48   |
| FUEL LINES .....                  | 2.5000A   | 405  |
| MECHANICAL GOVERNOR .....         | 2.7000A   | 496  |
| INJECTOR CONTROLS .....           | 2.9000    | 94   |
| BLOWER .....                      | 3.4000    | 75   |
| OIL PUMP .....                    | 4.1000A   | 53   |
| OIL DISTRIBUTION SYSTEM .....     | 4.1000B   | 174  |
| OIL PRESSURE REGULATOR .....      | 4.1000C   | 9    |
| OIL FILTER .....                  | 4.2000A   | 112  |
| OIL FILTER LINES .....            | 4.3000A   | 89   |
| OIL COOLER .....                  | 4.4000A   | 260  |
| OIL PAN .....                     | 4.7000A   | 128  |
| VENTILATING SYSTEM .....          | 4.8000A   | 195  |
| FRESH WATER PUMP .....            | 5.1000    | 53   |
| WATER OUTLET ELBOW .....          | 5.2000A   | 70   |
| THERMOSTAT .....                  | 5.2000B   | 72   |
| WATER BY-PASS TUBE .....          | 5.2000C   | 130  |
| WATER CONNECTIONS .....           | 5.3000B   | 118  |
| FAN .....                         | 5.4000A   | 305  |
| EXHAUST MANIFOLD .....            | 6.1000A   | 137  |
| EXHAUST MUFFLER CONNECTIONS ..... | 6.2000A   | 173  |
| BATTERY CHARGING GENERATOR .....  | 7.1000A   | 668  |
| STARTING MOTOR .....              | 7.3000A   | 188  |
| INSTRUMENTS .....                 | 7.4000A   | 427  |

## 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

5023-6100

## 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   | 30   |
| CRANKSHAFT                 | 1.3000    | 19   |
| CRANKSHAFT FRONT COVER     | 1.3000A   | 48   |
| CRANKSHAFT PULLEY          | 1.3000C   | 131  |
| CRANKSHAFT PULLEY BELT     | 1.3000D   | 176  |
| FLYWHEEL                   | 1.4000A   | 476  |
| FLYWHEEL HOUSING           | 1.5000A   | 345  |
| CONNECTING ROD AND PISTON  | 1.6000    | 25   |
| CAMSHAFT AND GEAR TRAIN    | 1.7000    | 30   |
| VALVE OPERATING MECHANISM  | 1.8000    | 28   |
| ROCKER COVER               | 1.8000A   | 66   |
| FUEL INJECTOR              | 2.1000A   | 47   |
| FUEL PUMP                  | 2.2000    | 34   |
| FUEL FILTER                | 2.3000A   | 208  |
| FUEL MANIFOLD CONNECTIONS  | 2.4000    | 48   |
| FUEL LINES                 | 2.5000A   | 611  |
| MECHANICAL GOVERNOR        | 2.7000A   | 589  |
| INJECTOR CONTROLS          | 2.9000    | 129  |
| AIR INLET HOUSING          | 3.3000A   | 138  |
| BLOWER                     | 3.4000    | 111  |
| OIL PUMP                   | 4.1000A   | 53   |
| OIL DISTRIBUTION SYSTEM    | 4.1000B   | 170  |
| OIL PRESSURE REGULATOR     | 4.1000C   | 9    |
| OIL FILTER                 | 4.2000A   | 134  |
| OIL FILTER LINES           | 4.3000A   | 131  |
| OIL COOLER                 | 4.4000A   | 231  |
| OIL FILLER                 | 4.5000A   | 18   |
| DIPSTICK                   | 4.6000A   | 285  |
| OIL PAN                    | 4.7000A   | 534  |
| VENTILATING SYSTEM         | 4.8000A   | 357  |
| FRESH WATER PUMP           | 5.1000    | 38   |
| WATER OUTLET ELBOW         | 5.2000A   | 85   |
| THERMOSTAT                 | 5.2000B   | 72   |
| WATER BY-PASS TUBE         | 5.2000C   | 130  |
| WATER CONNECTIONS          | 5.3000B   | 117  |
| FAN                        | 5.4000A   | 499  |
| EXHAUST MANIFOLD           | 6.1000A   | 131  |
| BATTERY CHARGING GENERATOR | 7.1000A   | 816  |
| STARTING MOTOR             | 7.3000A   | 213  |

## 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   | 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   |
| FLYWHEEL                                    | 1.4000A   | 296  |
| FLYWHEEL HOUSING                            | 1.5000A   | 178  |
| 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 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  |
| BLOWER THRU 2D-20910                        | 3.4000    | 68   |
| BLOWER 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   |
| DIPSTICK STD. EQUIP. THRU 2D-11351          | 4.6000A   | 107  |
| DIPSTICK                                    | 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  |
| FAN                                         | 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

5023-7101

## 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 STD. EQUIP. PRIOR TO 2D-10349    | 1.3000C   | 111  |
| CRANKSHAFT PULLEY BELT                             | 1.3000D   | 91   |
| FLYWHEEL                                           | 1.4000A   | 296  |
| FLYWHEEL HOUSING                                   | 1.5000A   | 178  |
| 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 STD. EQUIP. PRIOR TO 2D-13166        | 2.1000A   | 40   |
| FUEL PUMP THRU 2D-31198                            | 2.2000    | 33   |
| FUEL PUMP EFF. WITH 2D-31199                       | 2.2000    | 127  |
| FUEL FILTER STD. EQUIP. PRIOR TO 2D-12594          | 2.3000A   | 157  |
| FUEL MANIFOLD CONNECTIONS                          | 2.4000    | 48   |
| FUEL LINES STD. EQUIP. PRIOR TO 2D-12594           | 2.5000A   | 388  |
| MECHANICAL GOVERNOR                                | 2.7000A   | 596  |
| INJECTOR CONTROLS                                  | 2.9000    | 88   |
| THROTTLE CONTROLS                                  | 2.9000A   | 504  |
| BLOWER                                             | 3.40C0    | 120  |
| 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   | 231  |
| OIL FILLER                                         | 4.5000A   | 18   |
| DIPSTICK STD. EQUIP. PRIOR TO 2D-11552             | 4.6000A   | 107  |
| DIPSTICK                                           | 4.6000A   | 285  |
| OIL PAN                                            | 4.7000A   | 604  |
| VENTILATING SYSTEM                                 | 4.8000A   | 195  |
| FRESH WATER PUMP                                   | 5.1000    | 38   |
| WATER OUTLET MANIFOLD STD. EQUIP. PRIOR TO 2D-3404 | 5.2000A   | 67   |
| THERMOSTAT                                         | 5.2000B   | 72   |
| WATER BY-PASS TUBE                                 | 5.2000C   | 130  |
| WATER CONNECTIONS STD. EQUIP. PRIOR TO 2D-2357     | 5.3000B   | 117  |
| FAN                                                | 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  |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                       | GROUP NO. | TYPE |
|------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK                                                   | 1.1000    | 33   |
| AIR BOX DRAINS THRU 2D-5160                                      | 1.1000A   | 32   |
| AIR BOX DRAINS EFF. WITH 2D-5161                                 | 1.1000A   | 44   |
| CYLINDER HEAD                                                    | 1.2000    | 30   |
| CRANKSHAFT                                                       | 1.3000    | 19   |
| CRANKSHAFT FRONT COVER                                           | 1.3000A   | 49   |
| CRANKSHAFT PULLEY THRU 2D-868                                    | 1.3000C   | 112  |
| CRANKSHAFT PULLEY EFF. WITH 2D-869 AND THRU 2D-3782              | 1.3000C   | 124  |
| CRANKSHAFT PULLEY EFF. WITH 2D-3783                              | 1.3000C   | 132  |
| CRANKSHAFT PULLEY BELT THRU 2D-6717                              | 1.3000D   | 95   |
| CRANKSHAFT PULLEY BELT EFF. WITH 2D-6718                         | 1.3000D   | 102  |
| FLYWHEEL HOUSING                                                 | 1.5000A   | 181  |
| CONNECTING ROD AND PISTON                                        | 1.6000    | 29   |
| CAMSHAFT AND GEAR TRAIN THRU 2D-6717                             | 1.7000    | 37   |
| CAMSHAFT AND GEAR TRAIN EFF. WITH 2D-6718                        | 1.7000    | 49   |
| VALVE OPERATING MECHANISM                                        | 1.8000    | 28   |
| ROCKER COVER                                                     | 1.8000A   | 42   |
| FUEL INJECTOR                                                    | 2.1000A   | 41   |
| FUEL PUMP                                                        | 2.2000    | 36   |
| FUEL FILTER                                                      | 2.3000A   | 161  |
| FUEL MANIFOLD CONNECTIONS                                        | 2.4000    | 48   |
| FUEL LINES                                                       | 2.5000A   | 383  |
| MECHANICAL GOVERNOR                                              | 2.7000A   | 452  |
| INJECTOR CONTROLS                                                | 2.9000    | 103  |
| BLOWER THRU 2D-20909                                             | 3.4000    | 64   |
| BLOWER EFF. WITH 2D-20910                                        | 3.4000    | 110  |
| OIL PUMP                                                         | 4.1000A   | 53   |
| OIL DISTRIBUTION SYSTEM                                          | 4.1000B   | 173  |
| OIL PRESSURE REGULATOR                                           | 4.1000C   | 8    |
| OIL FILTER                                                       | 4.2000A   | 111  |
| OIL FILLER                                                       | 4.5000A   | 45   |
| DIPSTICK THRU 2D-3325                                            | 4.6000A   | 114  |
| DIPSTICK EFF. WITH 2D-3326                                       | 4.6000A   | 141  |
| OIL PAN                                                          | 4.7000A   | 110  |
| VENTILATING SYSTEM                                               | 4.8000A   | 201  |
| FRESH WATER PUMP THRU 2D-6717                                    | 5.1000    | 40   |
| FRESH WATER PUMP EFF. WITH 2D-6718                               | 5.1000    | 54   |
| WATER OUTLET ELBOW                                               | 5.2000A   | 69   |
| THERMOSTAT                                                       | 5.2000B   | 73   |
| WATER BY-PASS TUBE                                               | 5.2000C   | 133  |
| WATER CONNECTIONS                                                | 5.3000B   | 118  |
| FAN THRU 2D-6717                                                 | 5.4000A   | 288  |
| FAN EFF. WITH 2D-6718                                            | 5.4000A   | 308  |
| EXHAUST MANIFOLD                                                 | 6.1000A   | 121  |
| STARTING MOTOR THRU 2D-303                                       | 7.3000A   | 178  |
| STARTING MOTOR EFF. WITH 2D-304 AND THRU 2D-14551                | 7.3000A   | 190  |
| STARTING MOTOR EFF. WITH 2D-14552. STD. EQUIP. PRIOR TO 2D-21332 | 7.3000A   | 249  |

## DETROIT DIESEL 53 MPC ENGINES

5023-8101

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                  | GROUP NO. | TYPE |
|-----------------------------|-----------|------|
| CYLINDER BLOCK              | 1.1000    | 28   |
| AIR BOX DRAINS              | 1.1000A   | 28   |
| CYLINDER HEAD               | 1.2000    | 21   |
| ENGINE LIFTER BRACKET       | 1.2000A   | 30   |
| CRANKSHAFT                  | 1.3000    | 19   |
| CRANKSHAFT FRONT COVER      | 1.3000A   | 48   |
| CRANKSHAFT PULLEY           | 1.3000C   | 111  |
| CRANKSHAFT PULLEY BELT      | 1.3000D   | 91   |
| FLYWHEEL                    | 1.4000A   | 296  |
| FLYWHEEL HOUSING            | 1.5000A   | 178  |
| 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                   | 2.2000    | 33   |
| FUEL FILTER                 | 2.3000A   | 157  |
| FUEL MANIFOLD CONNECTIONS   | 2.4000    | 48   |
| FUEL LINES                  | 2.5000A   | 960  |
| MECHANICAL GOVERNOR         | 2.7000A   | 594  |
| INJECTOR CONTROLS           | 2.9000    | 109  |
| THROTTLE CONTROLS           | 2.9000A   | 504  |
| AIR INLET HOUSING           | 3.3000A   | 138  |
| BLOWER THRU 2D-20909        | 3.4000    | 59   |
| BLOWER EFF. WITH 2D-20910   | 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   | 231  |
| OIL FILLER                  | 4.5000A   | 18   |
| DIPSTICK                    | 4.6000A   | 285  |
| OIL PAN                     | 4.7000A   | 109  |
| 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  |
| FAN                         | 5.4000A   | 275  |
| EXHAUST MANIFOLD            | 6.1000A   | 131  |
| EXHAUST MUFFLER CONNECTIONS | 6.2000A   | 173  |
| STARTING MOTOR              | 7.3000A   | 174  |
| INSTRUMENTS                 | 7.4000A   | 372  |

## 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                                                                  | 1.3000C   | 111  |
| CRANKSHAFT PULLEY BELT                                                             | 1.3000D   | 91   |
| FLYWHEEL (10" CLUTCH)                                                              | 1.4000A   | 327  |
| FLYWHEEL (DELCO POWER GENERATOR)                                                   | 1.4000A   | 300  |
| FLYWHEEL (TWIN DISC C111 CLUTCH OR ROCKFORD PTO 31120)                             | 1.4000A   | 325  |
| FLYWHEEL (LIPE ROLLWAY 13 ML CLUTCH)                                               | 1.4000A   | 326  |
| FLYWHEEL (ROCKFORD 14" TT CLUTCH)                                                  | 1.4000A   | 328  |
| FLYWHEEL (10" CLUTCH)                                                              | 1.4000A   | 305  |
| FLYWHEEL (ROCKFORD 11" TT CLUTCH)                                                  | 1.4000A   | 324  |
| FLYWHEEL HOUSING                                                                   | 1.5000A   | 205  |
| FLYWHEEL HOUSING                                                                   | 1.5000A   | 207  |
| FLYWHEEL HOUSING                                                                   | 1.5000A   | 330  |
| CONNECTING ROD AND PISTON                                                          | 1.6000    | 25   |
| CAMSHAFT AND GEAR TRAIN                                                            | 1.7000    | 30   |
| ACCESSORY DRIVE (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.) | 1.7000B   | 60   |
| VALVE OPERATING MECHANISM                                                          | 1.8000    | 28   |
| ROCKER COVER (WITH OIL FILLER)                                                     | 1.8000A   | 37   |
| ROCKER COVER                                                                       | 1.8000A   | 36   |
| FUEL INJECTOR                                                                      | 2.1000A   | 40   |
| FUEL INJECTOR                                                                      | 2.1000A   | 47   |
| FUEL PUMP                                                                          | 2.2000    | 34   |
| FUEL FILTER                                                                        | 2.3000A   | 157  |
| FUEL MANIFOLD CONNECTIONS                                                          | 2.4000    | 48   |
| FUEL LINES                                                                         | 2.5000A   | 415  |
| MECHANICAL GOVERNOR (LIMITING SPEED)                                               | 2.7000A   | 589  |
| MECHANICAL GOVERNOR (VARIABLE SPEED, OPEN LINKAGE WITH BOOSTER SPRING)             | 2.7000A   | 595  |
| MECHANICAL GOVERNOR (VARIABLE SPEED, CLOSED LINKAGE)                               | 2.7000A   | 600  |
| HYDRAULIC GOVERNOR                                                                 | 2.8000A   | 555  |
| INJECTOR CONTROLS                                                                  | 2.9000    | 94   |
| THROTTLE CONTROLS (LIMITING SPEED)                                                 | 2.9000A   | 496  |
| THROTTLE CONTROLS (VARIABLE SPEED, OPEN LINKAGE)                                   | 2.9000A   | 511  |
| THROTTLE CONTROLS (VARIABLE SPEED, CLOSED LINKAGE)                                 | 2.9000A   | 506  |
| THROTTLE CONTROLS (HYDRAULIC GOVERNOR, FRICTION CONTROLS)                          | 2.9000A   | 498  |
| THROTTLE CONTROLS (HYDRAULIC GOVERNOR, VERNIER CONTROLS)                           | 2.9000A   | 569  |
| AIR CLEANER (LIGHT DUTY, DIRECT MOUNTED)                                           | 3.1000A   | 225  |
| AIR CLEANER (HEAVY DUTY, REAR MOUNTED)                                             | 3.1000A   | 217  |
| AIR CLEANER (HEAVY DUTY, WITH COMPLETE HOOD, REAR MOUNTED)                         | 3.1000A   | 226  |
| BLOWER (WITH MANUAL SHUTDOWN)                                                      | 3.4000    | 71   |
| BLOWER (WITH MECHANICAL SHUTDOWN)                                                  | 3.4000    | 69   |
| OIL PUMP                                                                           | 4.1000A   | 53   |
| OIL DISTRIBUTION SYSTEM                                                            | 4.1000B   | 170  |
| OIL PRESSURE REGULATOR                                                             | 4.1000C   | 9    |
| OIL FILTER THRU 2D-17153                                                           | 4.2000A   | 109  |
| OIL FILTER EFFECTIVE WITH 2D-17154                                                 | 4.2000A   | 226  |
| OIL COOLER                                                                         | 4.4000A   | 275  |
| OIL FILLER (ON ROCKER COVER)                                                       | 4.5000A   | 18   |
| OIL FILLER (ON BREATHER)                                                           | 4.5000A   | 54   |
| DIPSTICK PRIOR TO 2D-13991                                                         | 4.6000A   | 184  |
| DIPSTICK EFFECTIVE WITH 2D-13991                                                   | 4.6000A   | 285  |
| OIL PAN                                                                            | 4.7000A   | 109  |
| VENTILATING SYSTEM                                                                 | 4.8000A   | 233  |
| VENTILATING SYSTEM (WITH OIL FILLER)                                               | 4.8000A   | 235  |
| FRESH WATER PUMP                                                                   | 5.1000    | 39   |
| WATER OUTLET ELBOW                                                                 | 5.2000A   | 80   |
| THERMOSTAT                                                                         | 5.2000B   | 72   |
| WATER BY-PASS TUBE                                                                 | 5.2000C   | 130  |
| RADIATOR                                                                           | 5.3000A   | 78   |
| WATER CONNECTIONS                                                                  | 5.3000B   | 166  |
| FAN (SUCTION 17", 6 BLADE, 1.25:1 RATIO)                                           | 5.4000A   | 292  |
| FAN (BLOWER 17", 6 BLADE, 1.25:1 RATIO)                                            | 5.4000A   | 279  |
| EXHAUST MANIFOLD (WITH MANUAL OR NO SHUTDOWN)                                      | 6.1000A   | 131  |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                                                                                                     | GROUP NO. | TYPE |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------|
| EXHAUST MANIFOLD (WITH MECHANICAL SHUTDOWN) .....                                                                                                              | 6.1000A   | 137  |
| EXHAUST MUFFLER CONNECTIONS .....                                                                                                                              | 6.2000A   | 173  |
| EXHAUST MUFFLER (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.) .....                                                                       | 6.2000A   | 174  |
| BATTERY CHARGING GENERATOR .....                                                                                                                               | 7.1000A   | 695  |
| STARTING MOTOR .....                                                                                                                                           | 7.3000A   | 188  |
| INSTRUMENT PANEL (TACHOMETER ONLY) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.) .....                                                    | 7.4000A   | 390  |
| INSTRUMENT PANEL (MOUNTED OPPOSITE BLOWER SIDE) .....                                                                                                          | 7.4000A   | 411  |
| INSTRUMENT PANEL (MOUNTED ON BLOWER SIDE) .....                                                                                                                | 7.4000A   | 412  |
| TACHOMETER DRIVE (WITH OIL SEAL, 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  |
| 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   | 189  |
| MECHANICAL AUTOMATIC SHUTDOWN (WITHOUT OVERSPEED GOVERNOR) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.) .....                            | 7.4000C   | 369  |
| MECHANICAL AUTOMATIC SHUTDOWN (WITH OVERSPEED GOVERNOR) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.) .....                               | 7.4000C   | 370  |
| MECHANICAL AUTOMATIC SHUTDOWN (WITH HYDRAULIC ENGINE GOVERNOR AND OVERSPEED GOVERNOR) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.) ..... | 7.4000C   | 388  |
| WIRING HARNESS (INSTRUMENTS ON BLOWER SIDE) .....                                                                                                              | 7.7000A   | 289  |
| WIRING HARNESS (INSTRUMENTS ON SIDE OPPOSITE BLOWER) .....                                                                                                     | 7.7000A   | 290  |
| POWER TAKE-OFF .....                                                                                                                                           | 8.1000A   | 180  |
| ENGINE HOOD (COMPLETE) .....                                                                                                                                   | 10.1000A  | 108  |
| ENGINE MOUNTS (FLYWHEEL HOUSING) .....                                                                                                                         | 11.1000A  | 357  |
| ENGINE MOUNTS (FLYWHEEL HOUSING) .....                                                                                                                         | 11.1000A  | 358  |
| ENGINE MOUNTS (FLYWHEEL HOUSING) .....                                                                                                                         | 11.1000A  | 359  |
| ENGINE BASE (WITH FLYWHEEL HOUSING) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.) .....                                                   | 11.1000A  | 427  |
| ENGINE BASE (WITH FLYWHEEL HOUSING) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.) .....                                                   | 11.1000A  | 433  |
| HYDRAULIC PUMP (MOUNTED ON CAMSHAFT, 14 GPM AT 2000 RPM) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.) .....                              | 12.5000A  | 30   |
| HYDRAULIC PUMP (MOUNTED ON BALANCE SHAFT, 14 GPM AT 2000 RPM) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.) .....                         | 12.5000A  | 29   |
| COLD WEATHER STARTING AID (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.) .....                                                             | 12.6000C  | 3    |

## DETROIT DIESEL 53 MPC ENGINES

5024-7101

## 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-13074           | 5.3000A   | 57   |
| RADIATOR                                         | 5.3000A   | 116  |
| WATER CONNECTIONS                                | 5.3000B   | 144  |
| FAN                                              | 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    | 59   |
| 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  |

## DETROIT DIESEL 53 MPC ENGINES

5025-7101

## 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   | 300  |
| FLYWHEEL HOUSING                                 | 1.5000A   | 345  |
| 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   | 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  |
| BLOWER                                           | 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   |
| DIPSTICK THRU 2D-13990                           | 4.6000A   | 184  |
| DIPSTICK EFF. WITH 2D-13991                      | 4.6000A   | 285  |
| OIL PAN THRU 2D-24510                            | 4.7000A   | 109  |
| OIL PAN EFF. WITH 2D-24511                       | 4.7000A   | 534  |
| VENTILATING 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  |
| FAN                                              | 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  |

DETROIT DIESEL 53 MPC ENGINES  
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                            | 1.3000C   | 111  |
| FLYWHEEL                                     | 1.4000A   | 300  |
| FLYWHEEL HOUSING                             | 1.5000A   | 344  |
| 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   | 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   | 496  |
| HYDRAULIC GOVERNOR                           | 2.8000A   | 1004 |
| INJECTOR CONTROLS                            | 2.9000    | 109  |
| THROTTLE CONTROLS                            | 2.9000A   | 572  |
| AIR CLEANER                                  | 3.1000A   | 241  |
| AIR INLET HOUSING                            | 3.3000A   | 198  |
| BLOWER THRU 2D-20910                         | 3.4000    | 59   |
| 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 THRU 2D-17671                     | 4.2000A   | 162  |
| OIL FILTER EFF. WITH 2D-17672                | 4.2000A   | 258  |
| OIL COOLER                                   | 4.4000A   | 275  |
| OIL FILLER                                   | 4.5000A   | 18   |
| DIPSTICK THRU 2D-13990                       | 4.6000A   | 184  |
| DIPSTICK 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   | 269  |
| FRESH WATER PUMP THRU 2D-25497               | 5.1000    | 39   |
| FRESH WATER PUMP EFF. WITH 2D-25498          | 5.1000    | 146  |
| THERMOSTAT                                   | 5.2000B   | 72   |
| WATER BY-PASS TUBE THRU 2D-25497             | 5.2000C   | 150  |
| WATER BY-PASS TUBE EFF. WITH 2D-25498        | 5.2000C   | 321  |
| WATER CONNECTIONS THRU 2D-14462              | 5.3000B   | 140  |
| WATER CONNECTIONS EFF. WITH 2D-14463         | 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   | 202  |
| BATTERY CHARGING GENERATOR 12V., 25 AMP.     | 7.1000A   | 1197 |
| STARTING MOTOR                               | 7.3000A   | 188  |
| INSTRUMENTS                                  | 7.4000A   | 508  |
| MECHANICAL SHUTDOWN                          | 7.4000C   | 410  |
| POWER GENERATOR                              | 7.5000A   | 197  |
| WIRING HARNESS                               | 7.7000A   | 304  |
| ENGINE MOUNTS                                | 11.1000A  | 352  |
| ENGINE BASE                                  | 11.1000A  | 429  |

## DETROIT DIESEL 53 MPC ENGINES

5030-7000

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                | GROUP NO. | TYPE |
|---------------------------|-----------|------|
| CYLINDER BLOCK            | 1.1000    | 29   |
| AIR BOX DRAINS            | 1.1000A   | 32   |
| CYLINDER HEAD             | 1.2000    | 23   |
| ENGINE LIFTER BRACKET     | 1.2000A   | 30   |
| CRANKSHAFT                | 1.3000    | 20   |
| CRANKSHAFT FRONT COVER    | 1.3000A   | 48   |
| CRANKSHAFT PULLEY         | 1.3000C   | NONE |
| FLYWHEEL                  | 1.4000A   | NONE |
| FLYWHEEL HOUSING          | 1.5000A   | 199  |
| 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   | 76   |
| FUEL PUMP                 | 2.2000    | 33   |
| FUEL FILTER               | 2.3000A   | NONE |
| FUEL MANIFOLD CONNECTIONS | 2.4000    | 48   |
| FUEL LINES                | 2.5000A   | NONE |
| MECHANICAL GOVERNOR       | 2.7000A   | 590  |
| INJECTOR CONTROLS         | 2.9000    | 89   |
| THROTTLE CONTROLS         | 2.9000A   | NONE |
| AIR INLET HOUSING         | 3.3000A   | NONE |
| BLOWER                    | 3.4000    | 60   |
| OIL PUMP                  | 4.1000A   | 49   |
| OIL DISTRIBUTION SYSTEM   | 4.1000B   | 195  |
| OIL PRESSURE REGULATOR    | 4.1000C   | 9    |
| OIL COOLER                | 4.4000A   | 276  |
| OIL FILLER                | 4.5000A   | 18   |
| DIPSTICK                  | 4.6000A   | 275  |
| OIL PAN                   | 4.7000A   | 225  |
| VENTILATING SYSTEM        | 4.8000A   | 246  |
| FRESH WATER PUMP          | 5.1000    | 70   |
| WATER OUTLET ELBOW        | 5.2000A   | 67   |
| THERMOSTAT                | 5.2000B   | 72   |
| WATER BY-PASS TUBE        | 5.2000C   | 182  |
| WATER CONNECTIONS         | 5.3000B   | 122  |

## 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   |
| FLYWHEEL .....                    | 1.4000A   | 378  |
| FLYWHEEL HOUSING .....            | 1.5000A   | 178  |
| CONNECTING ROD AND PISTON .....   | 1.6000    | 61   |
| CAMSHAFT 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    | 46   |
| FUEL FILTER .....                 | 2.3000A   | 223  |
| FUEL MANIFOLD CONNECTIONS .....   | 2.4000    | 48   |
| FUEL LINES .....                  | 2.5000A   | 490  |
| 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    | 61   |
| BLOWER EFF. WITH 3D-34008 .....   | 3.4000    | 113  |
| OIL PUMP .....                    | 4.1000A   | 49   |
| OIL DISTRIBUTION SYSTEM .....     | 4.1000B   | 220  |
| OIL PRESSURE REGULATOR .....      | 4.1000C   | 9    |
| OIL FILTER .....                  | 4.2000A   | 226  |
| OIL COOLER .....                  | 4.4000A   | 315  |
| OIL FILLER .....                  | 4.5000A   | 45   |
| DIPSTICK THRU 3D-29020 .....      | 4.6000A   | 186  |
| DIPSTICK EFF. WITH 3D-29021 ..... | 4.6000A   | 549  |
| OIL PAN .....                     | 4.7000A   | 293  |
| VENTILATING SYSTEM .....          | 4.8000A   | 355  |
| FRESH WATER PUMP .....            | 5.1000    | 62   |
| THERMOSTAT .....                  | 5.2000B   | 123  |
| WATER BY-PASS TUBE .....          | 5.2000C   | 206  |
| WATER CONNECTIONS .....           | 5.3000B   | 210  |
| EXHAUST MANIFOLD .....            | 6.1000A   | 125  |
| EXHAUST MUFFLER CONNECTIONS ..... | 6.2000A   | 176  |
| BATTERY CHARGING GENERATOR .....  | 7.1000A   | 810  |
| STARTING MOTOR .....              | 7.3000A   | 180  |
| HYDRAULIC MARINE GEAR .....       | 9.1000A   | 541  |
| ENGINE MOUNTS .....               | 11.1000A  | 409  |

## 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   |
| FLYWHEEL                                                                                                                                 | 1.4000A   | 378  |
| FLYWHEEL HOUSING                                                                                                                         | 1.5000A   | 178  |
| CONNECTING ROD AND PISTON                                                                                                                | 1.6000    | 26   |
| CAMSHAFT 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  |
| BLOWER (THRU 3D-34007)                                                                                                                   | 3.4000    | 61   |
| BLOWER (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   |
| DIPSTICK                                                                                                                                 | 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  |
| 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   |
| TACHOMETER DRIVE (SINGLE OUTLET) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)                                      | 7.4000B   | 310  |
| TACHOMETER 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  |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                          | GROUP NO. | TYPE |
|-------------------------------------------------------------------------------------|-----------|------|
| HYDRAULIC MARINE GEAR (DIRECT DRIVE) .....                                          | 9.1000A   | 541  |
| HYDRAULIC MARINE GEAR (1.5:1 REDUCTION) .....                                       | 9.1000A   | 543  |
| HYDRAULIC MARINE GEAR (2:1 REDUCTION) .....                                         | 9.1000A   | 545  |
| HYDRAULIC MARINE GEAR (2.5:1 REDUCTION) .....                                       | 9.1000A   | 681  |
| ENGINE MOUNTING .....                                                               | 11.1000A  | 409  |
| ENGINE MOUNTING (RESILIENT TYPE) .....                                              | 11.1000A  | 489  |
| BILGE PUMP (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.) ..... | 12.2000A  | 22   |

## 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-108417 ..... | 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   | 185  |
| FLYWHEEL HOUSING ADAPTOR .....                             | 1.5000B   | 27   |
| CONNECTING ROD AND PISTON .....                            | 1.6000    | 61   |
| CAMSHAFT AND GEAR TRAIN THRU 3D-170682 .....               | 1.7000    | 31   |
| CAMSHAFT AND GEAR TRAIN EFF. WITH 3D-170683 .....          | 1.7000    | 265  |
| VALVE OPERATING MECHANISM THRU 3D-170682 .....             | 1.8000    | 30   |
| VALVE 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  |
| AIR SILENCER .....                                         | 3.2000A   | 28   |
| AIR INLET HOUSING .....                                    | 3.3000A   | 602  |
| BLOWER THRU 3D-34007 .....                                 | 3.4000    | 61   |
| BLOWER EFF. WITH 3D-34008 AND THRU 3D-170682 .....         | 3.4000    | 113  |
| BLOWER EFF. WITH 3D-170683 .....                           | 3.4000    | 315  |
| OIL PUMP .....                                             | 4.1000A   | 49   |
| OIL DISTRIBUTION SYSTEM .....                              | 4.1000B   | 208  |
| OIL PRESSURE REGULATOR .....                               | 4.1000C   | 9    |
| OIL FILTER THRU 3D-16657 .....                             | 4.2000A   | 155  |
| OIL FILTER EFF. WITH 3D-16658 .....                        | 4.2000A   | 220  |
| 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   | 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  |



DETROIT DIESEL 53 MPC ENGINES  
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-9115                                                                                                    | 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  |
| THROTTLE 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  |
| BLOWER THRU 3D-34007                                                                                                                     | 3.4000    | 61   |
| BLOWER 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   |
| DIPSTICK                                                                                                                                 | 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   |
| 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   | 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  |
| RAW 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   |