

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                 | GROUP NO. | TYPE |
|--------------------------------------------|-----------|------|
| CYLINDER BLOCK                             | 1.1000    | 38   |
| AIR BOX DRAINS                             | 1.1000A   | 49   |
| CYLINDER HEAD                              | 1.2000    | 25   |
| ENGINE LIFTER BRACKET                      | 1.2000A   | 51   |
| CRANKSHAFT                                 | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER                     | 1.3000A   | 48   |
| FLYWHEEL                                   | 1.4000A   | 378  |
| FLYWHEEL HOUSING                           | 1.5000A   | 185  |
| CONNECTING ROD AND PISTON                  | 1.6000    | 94   |
| CAMSHAFT AND GEAR TRAIN                    | 1.7000    | 34   |
| VALVE OPERATING MECHANISM                  | 1.8000    | 59   |
| ROCKER COVER                               | 1.8000A   | 40   |
| FUEL INJECTOR                              | 2.1000A   | 80   |
| FUEL PUMP THRU 4D-78175                    | 2.2000    | 47   |
| FUEL PUMP EFF. WITH 4D-78176               | 2.2000    | 137  |
| FUEL FILTER                                | 2.3000A   | 223  |
| FUEL MANIFOLD CONNECTIONS                  | 2.4000    | 48   |
| FUEL LINES                                 | 2.5000A   | 491  |
| MECHANICAL GOVERNOR                        | 2.7000A   | 891  |
| INJECTOR CONTROLS                          | 2.9000    | 102  |
| THROTTLE CONTROLS                          | 2.9000A   | 476  |
| AIR SILENCER                               | 3.2000A   | 38   |
| AIR INLET HOUSING                          | 3.3000A   | 354  |
| BLOWER THRU 4D-40305                       | 3.4000    | 63   |
| BLOWER EFF. WITH 4D-40306                  | 3.4000    | 139  |
| BLOWER DRIVE SHAFT                         | 3.4000A   | 17   |
| TURBOCHARGER                               | 3.5000A   | 111  |
| OIL PUMP                                   | 4.1000A   | 52   |
| OIL DISTRIBUTION SYSTEM THRU 4D-29138      | 4.1000B   | 334  |
| OIL DISTRIBUTION SYSTEM EFF. WITH 4D-29139 | 4.1000B   | 221  |
| OIL PRESSURE REGULATOR                     | 4.1000C   | 9    |
| OIL FILTER                                 | 4.2000A   | 227  |
| OIL COOLER (ENGINE)                        | 4.4000A   | 316  |
| OIL COOLER (MARINE GEAR)                   | 4.4000A   | 491  |
| OIL FILLER                                 | 4.5000A   | 45   |
| DIPSTICK THRU 4D-29138                     | 4.6000A   | 186  |
| DIPSTICK EFF. WITH 4D-29139                | 4.6000A   | 549  |
| OIL PAN THRU 4D-29138                      | 4.7000A   | 406  |
| OIL PAN EFF. WITH 4D-29139                 | 4.7000A   | 486  |
| VENTILATING SYSTEM                         | 4.8000A   | 463  |
| FRESH WATER PUMP                           | 5.1000    | 150  |
| THERMOSTAT                                 | 5.2000B   | 166  |
| WATER BY-PASS TUBE                         | 5.2000C   | 349  |
| WATER CONNECTIONS                          | 5.3000B   | 261  |
| HEAT EXCHANGER                             | 5.5000A   | 396  |
| RAW WATER PUMP                             | 5.6000A   | 48   |
| EXHAUST MANIFOLD THRU 4D-62198             | 6.1000A   | 126  |
| EXHAUST MANIFOLD EFF. WITH 4D-62199        | 6.1000A   | 397  |
| EXHAUST MUFFLER CONNECTIONS                | 6.2000A   | 340  |
| BATTERY CHARGING GENERATOR                 | 7.1000A   | 811  |
| STARTING MOTOR                             | 7.3000A   | 255  |
| HYDRAULIC MARINE GEAR                      | 9.1000A   | 772  |
| ENGINE MOUNTS                              | 11.1000A  | 553  |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                                         | GROUP NO. | TYPE |
|----------------------------------------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK THRU 4D-75730                                                                       | 1.1000    | 91   |
| CYLINDER BLOCK EFF. WITH 4D-75731 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE             | 1.1000    | 30   |
| CYLINDER BLOCK                                                                                     | 1.1000    | •    |
| AIR BOX DRAINS THRU 4D-11689                                                                       | 1.1000A   | 63   |
| AIR BOX DRAINS EFF. WITH 4D-11690                                                                  | 1.1000A   | 25   |
| AIR BOX DRAINS                                                                                     | 1.1000A   | •    |
| CYLINDER HEAD STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                                     | 1.2000    | 25   |
| CYLINDER HEAD                                                                                      | 1.2000    | •    |
| ENGINE LIFTER BRACKET                                                                              | 1.2000A   | •    |
| CRANKSHAFT                                                                                         | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER                                                                             | 1.3000A   | •    |
| CRANKSHAFT PULLEY                                                                                  | 1.3000C   | •    |
| CRANKSHAFT PULLEY BELT                                                                             | 1.3000D   | •    |
| FLYWHEEL                                                                                           | 1.4000A   | •    |
| FLYWHEEL HOUSING                                                                                   | 1.5000A   | •    |
| CONNECTING ROD AND PISTON STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                         | 1.6000    | 61   |
| CONNECTING ROD AND PISTON                                                                          | 1.6000    | •    |
| CAMSHAFT AND GEAR TRAIN THRU 4D-180938                                                             | 1.7000    | 34   |
| CAMSHAFT AND GEAR TRAIN EFF. WITH 4D-180939                                                        | 1.7000    | 270  |
| BALANCE WEIGHT COVER                                                                               | 1.7000A   | •    |
| VALVE OPERATING MECHANISM THRU 4D-158185                                                           | 1.8000    | 32   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-158186 AND THRU 4D-162840                                   | 1.8000    | 122  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-162841 AND THRU 4D-167110                                   | 1.8000    | 32   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-167111 AND THRU 4D-180938                                   | 1.8000    | 122  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-180939 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE | 1.8000    | 167  |
| VALVE OPERATING MECHANISM                                                                          | 1.8000    | •    |
| ROCKER COVER                                                                                       | 1.8000A   | •    |
| FUEL INJECTOR                                                                                      | 2.1000A   | •    |
| FUEL PUMP THRU 4D-78175                                                                            | 2.2000    | 34   |
| FUEL PUMP EFF. WITH 4D-78176 AND THRU 4D-172166                                                    | 2.2000    | 136  |
| FUEL PUMP EFF. WITH 4D-172167                                                                      | 2.2000    | 178  |
| FUEL FILTER THRU 4D-175673                                                                         | 2.3000A   | 157  |
| FUEL FILTER EFF. WITH 4D-175674                                                                    | 2.3000A   | •    |
| FUEL MANIFOLD CONNECTIONS                                                                          | 2.4000    | 48   |
| FUEL LINES                                                                                         | 2.5000A   | •    |
| MECHANICAL GOVERNOR                                                                                | 2.7000A   | •    |
| INJECTOR CONTROLS THRU 4D-159163                                                                   | 2.9000    | 90   |
| INJECTOR CONTROLS EFF. WITH 4D-159164 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE         | 2.9000    | 282  |
| INJECTOR CONTROLS                                                                                  | 2.9000    | •    |
| THROTTLE CONTROLS                                                                                  | 2.9000A   | •    |
| AIR INLET HOUSING                                                                                  | 3.3000A   | •    |
| BLOWER THRU 4D-36456                                                                               | 3.4000    | 62   |
| BLOWER EFF. WITH 4D-36457 AND THRU 4D-180938                                                       | 3.4000    | 115  |
| BLOWER EFF. WITH 4D-180939 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                    | 3.4000    | 317  |
| BLOWER                                                                                             | 3.4000    | •    |
| BLOWER DRIVE SHAFT                                                                                 | 3.4000A   | 17   |
| OIL PUMP THRU 4D-200699                                                                            | 4.1000A   | 52   |
| OIL PUMP EFF. WITH 4D-200700                                                                       | 4.1000A   | 170  |
| OIL DISTRIBUTION SYSTEM                                                                            | 4.1000B   | •    |
| OIL PRESSURE REGULATOR                                                                             | 4.1000C   | •    |
| OIL PRESSURE REGULATOR STD. EQUIP. EFF. WITH 4D-200700                                             | 4.1000C   | 29   |
| OIL FILTER                                                                                         | 4.2000A   | •    |
| OIL COOLER                                                                                         | 4.4000A   | •    |
| OIL FILLER                                                                                         | 4.5000A   | •    |
| DIPSTICK                                                                                           | 4.6000A   | •    |
| OIL PAN                                                                                            | 4.7000A   | •    |
| VENTILATING SYSTEM                                                                                 | 4.8000A   | •    |
| FRESH WATER PUMP THRU 4D-66996                                                                     | 5.1000    | 39   |
| FRESH WATER PUMP EFF. WITH 4D-66997 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE           | 5.1000    | 146  |
| FRESH WATER PUMP                                                                                   | 5.1000    | •    |
| WATER OUTLET ELBOW STD. EQUIP. PRIOR TO 4D-66996                                                   | 5.2000A   | •    |
| THERMOSTAT STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                                        | 5.2000B   | 72   |
| THERMOSTAT                                                                                         | 5.2000B   | •    |
| WATER BY-PASS TUBE THRU 4D-66996                                                                   | 5.2000C   | 130  |
| WATER BY-PASS TUBE EFF. WITH 4D-66997                                                              | 5.2000C   | 318  |
| WATER BY-PASS TUBE                                                                                 | 5.2000C   | •    |

## DETROIT DIESEL 53 MPC ENGINES

5043-5001

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                               | GROUP NO. | TYPE |
|------------------------------------------|-----------|------|
| WATER CONNECTIONS .....                  | 5.3000B   | •    |
| FAN .....                                | 5.4000A   | •    |
| EXHAUST MANIFOLD .....                   | 6.1000A   | •    |
| EXHAUST MUFFLER CONNECTIONS .....        | 6.2000A   | •    |
| BATTERY CHARGING GENERATOR .....         | 7.1000A   | •    |
| STARTING MOTOR .....                     | 7.3000A   | •    |
| • STANDARD OPTION REFER TO OPTION PLATE. |           |      |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                            | GROUP NO. | TYPE |
|-------------------------------------------------------|-----------|------|
| CYLINDER BLOCK THRU 4D-75730                          | 1.1000    | 91   |
| CYLINDER BLOCK EFF. WITH 4D-75731                     | 1.1000    | 30   |
| AIR BOX DRAINS                                        | 1.1000A   | 63   |
| CYLINDER HEAD                                         | 1.2000    | 57   |
| CRANKSHAFT                                            | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER                                | 1.3000A   | 48   |
| CRANKSHAFT PULLEY                                     | 1.3000C   | 111  |
| FLYWHEEL                                              | 1.4000A   | 402  |
| FLYWHEEL HOUSING                                      | 1.5000A   | 388  |
| CONNECTING ROD AND PISTON                             | 1.6000    | 77   |
| CAMSHAFT AND GEAR TRAIN                               | 1.7000    | 34   |
| VALVE OPERATING MECHANISM                             | 1.8000    | 32   |
| ROCKER COVER                                          | 1.8000A   | 40   |
| FUEL INJECTOR STD. EQUIP. PRIOR TO 4D-92156           | 2.1000A   | 74   |
| FUEL PUMP THRU 4D-78175                               | 2.2000    | 60   |
| FUEL PUMP EFF. WITH 4D-78176                          | 2.2000    | 147  |
| FUEL FILTER                                           | 2.3000A   | 229  |
| FUEL MANIFOLD CONNECTIONS                             | 2.4000    | 48   |
| FUEL LINES                                            | 2.5000A   | 561  |
| MECHANICAL GOVERNOR STD. EQUIP. PRIOR TO 4D-82336     | 2.7000A   | 605  |
| INJECTOR CONTROLS                                     | 2.9000    | 90   |
| THROTTLE CONTROLS                                     | 2.9000A   | 558  |
| AIR INLET HOUSING                                     | 3.3000A   | 142  |
| BLOWER THRU 4D-36456                                  | 3.4000    | 62   |
| BLOWER EFF. WITH 4D-36457                             | 3.4000    | 115  |
| BLOWER DRIVE SHAFT                                    | 3.4000A   | 17   |
| OIL PUMP                                              | 4.1000A   | 52   |
| OIL DISTRIBUTION SYSTEM                               | 4.1000B   | 196  |
| OIL PRESSURE REGULATOR                                | 4.1000C   | 9    |
| OIL FILTER (CUSTOMER FURNISHED)                       | 4.2000A   | NONE |
| OIL FILTER LINES THRU 4D-21622                        | 4.3000A   | 98   |
| OIL FILTER LINES EFF. WITH 4D-21623                   | 4.3000A   | 140  |
| OIL COOLER                                            | 4.4000A   | 239  |
| OIL FILLER                                            | 4.5000A   | 44   |
| DIPSTICK                                              | 4.6000A   | 261  |
| OIL PAN THRU 4D-77320                                 | 4.7000A   | 157  |
| OIL PAN EFF. WITH 4D-77321                            | 4.7000A   | 591  |
| VENTILATING SYSTEM                                    | 4.8000A   | 222  |
| FRESH WATER PUMP THRU 4D-66741                        | 5.1000    | 70   |
| FRESH WATER PUMP EFF. WITH 4D-66742                   | 5.1000    | 146  |
| WATER OUTLET MANIFOLD                                 | 5.2000A   | 67   |
| THERMOSTAT                                            | 5.2000B   | 91   |
| WATER BY-PASS TUBE THRU 4D-66741                      | 5.2000C   | 182  |
| WATER BY-PASS TUBE EFF. WITH 4D-66742                 | 5.2000C   | 318  |
| WATER CONNECTIONS                                     | 5.3000B   | 117  |
| EXHAUST MANIFOLD                                      | 6.1000A   | 223  |
| EXHAUST MUFFLER CONNECTIONS                           | 6.2000A   | 243  |
| STARTING MOTOR                                        | 7.3000A   | 213  |
| TACHOMETER DRIVE THRU 4D-22699                        | 7.4000B   | 200  |
| TACHOMETER DRIVE EFF. WITH 4D-22700 AND THRU 4D-59470 | 7.4000B   | 401  |
| TACHOMETER DRIVE EFF. WITH 4D-59471                   | 7.4000B   | 280  |
| ENGINE MOUNTS THRU 4D-107448                          | 11.1000A  | 420  |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                            | GROUP NO. | TYPE |
|---------------------------------------|-----------|------|
| CYLINDER BLOCK                        | 1.1000    | 145  |
| AIR BOX DRAINS                        | 1.1000A   | 63   |
| CYLINDER HEAD                         | 1.2000    | 25   |
| ENGINE LIFTER BRACKET                 | 1.2000A   | 108  |
| CRANKSHAFT THRU 4D-173283             | 1.3000    | 21   |
| CRANKSHAFT EFF. WITH 4D-173284        | 1.3000    | 68   |
| CRANKSHAFT FRONT COVER                | 1.3000A   | 48   |
| CRANKSHAFT PULLEY                     | 1.3000C   | 131  |
| CRANKSHAFT PULLEY BELT                | 1.3000D   | 196  |
| FLYWHEEL                              | 1.4000A   | 862  |
| FLYWHEEL HOUSING                      | 1.5000A   | 534  |
| CONNECTING ROD AND PISTON             | 1.6000    | 98   |
| CAMSHAFT AND GEAR TRAIN               | 1.7000    | 137  |
| VALVE OPERATING MECHANISM             | 1.8000    | 122  |
| ROCKER COVER                          | 1.8000A   | 311  |
| FUEL INJECTOR                         | 2.1000A   | 76   |
| FUEL PUMP THRU 4D-172166              | 2.2000    | 167  |
| FUEL PUMP EFF. WITH 4D-172167         | 2.2000    | 178  |
| FUEL FILTER                           | 2.3000A   | 688  |
| FUEL MANIFOLD CONNECTIONS             | 2.4000    | 48   |
| FUEL LINES                            | 2.5000A   | 1519 |
| MECHANICAL GOVERNOR                   | 2.7000A   | 1707 |
| INJECTOR CONTROLS THRU 4D-159163      | 2.9000    | 90   |
| INJECTOR CONTROLS EFF. WITH 4D-159164 | 2.9000    | 282  |
| THROTTLE CONTROLS                     | 2.9000A   | 483  |
| AIR INLET HOUSING                     | 3.3000A   | 596  |
| BLOWER                                | 3.4000    | 234  |
| BLOWER DRIVE SHAFT                    | 3.4000A   | 17   |
| OIL PUMP                              | 4.1000A   | 52   |
| OIL DISTRIBUTION SYSTEM               | 4.1000B   | 196  |
| OIL PRESSURE REGULATOR                | 4.1000C   | 9    |
| OIL FILTER                            | 4.2000A   | 354  |
| OIL COOLER THRU 4D-173283             | 4.4000A   | 226  |
| OIL COOLER EFF. WITH 4D-173284        | 4.4000A   | 849  |
| OIL FILLER CAP                        | 4.5000A   | 122  |
| DIPSTICK                              | 4.6000A   | 828  |
| OIL PAN                               | 4.7000A   | 652  |
| VENTILATING SYSTEM                    | 4.8000A   | 716  |
| FRESH WATER PUMP                      | 5.1000    | 145  |
| WATER OUTLET ELBOW                    | 5.2000A   | 67   |
| THERMOSTAT                            | 5.2000B   | 72   |
| WATER BY-PASS TUBE                    | 5.2000C   | 318  |
| WATER CONNECTIONS                     | 5.3000B   | 117  |
| FAN                                   | 5.4000A   | 1053 |
| EXHAUST MANIFOLD                      | 6.1000A   | 218  |
| EXHAUST MUFFLER CONNECTIONS           | 6.2000A   | 243  |
| BATTERY CHARGING GENERATOR            | 7.1000A   | 1946 |
| STARTING MOTOR                        | 7.3000A   | 180  |
| TACHOMETER DRIVE                      | 7.4000B   | 226  |
| ENGINE MOUNTS                         | 11.1000A  | 370  |

## DETROIT DIESEL 53 MPC ENGINES

5043-5081

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                       | GROUP NO. | TYPE |
|----------------------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK .....                                                             | 1.1000    | 145  |
| AIR BOX DRAINS .....                                                             | 1.1000A   | 63   |
| CYLINDER HEAD .....                                                              | 1.2000    | 25   |
| ENGINE LIFTER BRACKET .....                                                      | 1.2000A   | •    |
| CRANKSHAFT .....                                                                 | 1.3000    | 68   |
| CRANKSHAFT FRONT COVER .....                                                     | 1.3000A   | 48   |
| CRANKSHAFT PULLEY .....                                                          | 1.3000C   | •    |
| CRANKSHAFT PULLEY BELT .....                                                     | 1.3000D   | •    |
| FLYWHEEL .....                                                                   | 1.4000A   | •    |
| FLYWHEEL HOUSING .....                                                           | 1.5000A   | •    |
| CONNECTING ROD AND PISTON STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE ..... | 1.6000    | 98   |
| CONNECTING ROD AND PISTON .....                                                  | 1.6000    | •    |
| CAMSHAFT AND GEAR TRAIN .....                                                    | 1.7000    | 137  |
| VALVE OPERATING MECHANISM .....                                                  | 1.8000    | 122  |
| ROCKER COVER .....                                                               | 1.8000A   | •    |
| FUEL INJECTOR .....                                                              | 2.1000A   | •    |
| FUEL PUMP .....                                                                  | 2.2000    | •    |
| FUEL FILTER .....                                                                | 2.3000A   | •    |
| FUEL MANIFOLD CONNECTIONS .....                                                  | 2.4000    | 48   |
| FUEL LINES .....                                                                 | 2.5000A   | •    |
| MECHANICAL GOVERNOR .....                                                        | 2.7000A   | •    |
| INJECTOR CONTROLS .....                                                          | 2.9000    | 282  |
| AIR INLET HOUSING .....                                                          | 3.3000A   | •    |
| BLOWER .....                                                                     | 3.4000    | 234  |
| BLOWER DRIVE SHAFT .....                                                         | 3.4000A   | 17   |
| OIL PUMP .....                                                                   | 4.1000A   | 52   |
| OIL DISTRIBUTION SYSTEM .....                                                    | 4.1000B   | •    |
| OIL PRESSURE REGULATOR .....                                                     | 4.1000C   | 9    |
| OIL FILTER .....                                                                 | 4.2000A   | •    |
| OIL COOLER .....                                                                 | 4.4000A   | •    |
| OIL FILLER .....                                                                 | 4.5000A   | •    |
| DIPSTICK .....                                                                   | 4.6000A   | •    |
| OIL PAN .....                                                                    | 4.7000A   | •    |
| VENTILATING SYSTEM .....                                                         | 4.8000A   | •    |
| FRESH WATER PUMP .....                                                           | 5.1000    | •    |
| WATER OUTLET ELBOW .....                                                         | 5.2000A   | •    |
| THERMOSTAT .....                                                                 | 5.2000B   | 72   |
| WATER BY-PASS TUBE .....                                                         | 5.2000C   | 318  |
| WATER CONNECTIONS .....                                                          | 5.3000B   | 117  |
| FAN .....                                                                        | 5.4000A   | •    |
| EXHAUST MANIFOLD .....                                                           | 6.1000A   | •    |
| EXHAUST MUFFLER CONNECTION .....                                                 | 6.2000A   | •    |
| BATTERY CHARGING GENERATOR .....                                                 | 7.1000A   | •    |
| STARTING MOTOR .....                                                             | 7.3000A   | •    |
| CLUTCH HOUSING .....                                                             | 8.1000A   | •    |

• STANDARD OPTION REFER TO OPTION PLATE.

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                       | GROUP NO. | TYPE |
|------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK THRU 4D-75730                                     | 1.1000    | 91   |
| CYLINDER BLOCK EFF. WITH 4D-75731                                | 1.1000    | 30   |
| AIR BOX DRAINS THRU 4D-11690                                     | 1.1000A   | 32   |
| AIR BOX DRAINS EFF. WITH 4D-11691                                | 1.1000A   | 63   |
| CYLINDER HEAD                                                    | 1.2000    | 24   |
| ENGINE LIFTER BRACKET                                            | 1.2000A   | 30   |
| CRANKSHAFT                                                       | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER THRU 4D-115877                            | 1.3000A   | 48   |
| CRANKSHAFT FRONT COVER EFF. WITH 4D-115878                       | 1.3000A   | 119  |
| CRANKSHAFT PULLEY STD. EQUIP. PRIOR TO 4D-1960                   | 1.3000C   | 111  |
| CRANKSHAFT PULLEY BELT                                           | 1.3000D   | 178  |
| FLYWHEEL                                                         | 1.4000A   | 296  |
| FLYWHEEL HOUSING                                                 | 1.5000A   | 185  |
| CONNECTING ROD AND PISTON THRU 4D-14985                          | 1.6000    | 27   |
| CONNECTING ROD AND PISTON EFF. WITH 4D-14986                     | 1.6000    | 61   |
| CAMSHAFT AND GEAR TRAIN THRU 4D-180938                           | 1.7000    | 34   |
| CAMSHAFT AND GEAR TRAIN EFF. WITH 4D-180939                      | 1.7000    | 270  |
| VALVE OPERATING MECHANISM THRU 4D-158185                         | 1.8000    | 31   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-158186 AND THRU 4D-162840 | 1.8000    | 186  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-162841 AND THRU 4D-167110 | 1.8000    | 31   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-167111 AND THRU 4D-180938 | 1.8000    | 186  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-180939                    | 1.8000    | 171  |
| ROCKER COVER                                                     | 1.8000A   | 41   |
| FUEL INJECTOR 45 THRU 4D-1809                                    | 2.1000A   | 40   |
| FUEL INJECTOR S45 EFF. WITH 4D-1810                              | 2.1000A   | 52   |
| FUEL INJECTOR STD. EQUIP. PRIOR TO 4D-92156                      | 2.1000A   | 76   |
| FUEL PUMP THRU 4D-78175                                          | 2.2000    | 34   |
| FUEL PUMP EFF. WITH 4D-78176 AND THRU 4D-172166                  | 2.2000    | 136  |
| FUEL PUMP EFF. WITH 4D-172167                                    | 2.2000    | 178  |
| FUEL FILTER                                                      | 2.3000A   | 157  |
| FUEL MANIFOLD CONNECTIONS                                        | 2.4000    | 48   |
| FUEL LINES                                                       | 2.5000A   | 900  |
| MECHANICAL GOVERNOR                                              | 2.7000A   | 597  |
| INJECTOR CONTROLS THRU 4D-159163                                 | 2.9000    | 90   |
| INJECTOR CONTROLS EFF. WITH 4D-159164                            | 2.9000    | 282  |
| THROTTLE CONTROLS                                                | 2.9000A   | 504  |
| AIR INLET HOUSING                                                | 3.3000A   | 597  |
| BLOWER THRU 4D-36456                                             | 3.4000    | 62   |
| BLOWER EFF. WITH 4D-36457 AND THRU 4D-180938                     | 3.4000    | 115  |
| BLOWER EFF. WITH 4D-180939                                       | 3.4000    | 317  |
| BLOWER DRIVE SHAFT                                               | 3.4000A   | 17   |
| OIL PUMP                                                         | 4.1000A   | 52   |
| OIL DISTRIBUTION SYSTEM                                          | 4.1000B   | 196  |
| OIL PRESSURE REGULATOR                                           | 4.1000C   | 9    |
| OIL FILTER                                                       | 4.2000A   | 227  |
| OIL COOLER                                                       | 4.4000A   | 239  |
| OIL FILLER                                                       | 4.5000A   | 18   |
| DIPSTICK                                                         | 4.6000A   | 261  |
| OIL PAN                                                          | 4.7000A   | 591  |
| VENTILATING SYSTEM                                               | 4.8000A   | 196  |
| FRESH WATER PUMP THRU 4D-66634                                   | 5.1000    | 39   |
| FRESH WATER PUMP EFF. WITH 4D-66635                              | 5.1000    | 146  |
| WATER OUTLET MANIFOLD                                            | 5.2000A   | 67   |
| THERMOSTAT                                                       | 5.2000B   | 72   |
| WATER BY-PASS TUBE THRU 4D-66634                                 | 5.2000C   | 130  |
| WATER BY-PASS TUBE EFF. WITH 4D-66635                            | 5.2000C   | 318  |
| WATER CONNECTIONS                                                | 5.3000B   | 117  |
| FAN                                                              | 5.4000A   | 276  |
| EXHAUST MANIFOLD                                                 | 6.1000A   | 218  |
| EXHAUST MUFFLER CONNECTIONS                                      | 6.2000A   | 243  |
| BATTERY CHARGING GENERATOR                                       | 7.1000A   | 1778 |
| STARTING MOTOR                                                   | 7.3000A   | 302  |
| INSTRUMENTS                                                      | 7.4000A   | 372  |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                     | GROUP NO. | TYPE |
|--------------------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK THRU 4D-75730                                                   | 1.1000    | 91   |
| CYLINDER BLOCK EFF. WITH 4D-75731                                              | 1.1000    | 30   |
| AIR BOX DRAINS THRU 4D-11689                                                   | 1.1000A   | 32   |
| AIR BOX DRAINS EFF. WITH 4D-11690                                              | 1.1000A   | 63   |
| CYLINDER HEAD                                                                  | 1.2000    | 24   |
| ENGINE LIFTER BRACKET                                                          | 1.2000A   | 30   |
| CRANKSHAFT                                                                     | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER THRU 4D-115677                                          | 1.3000A   | 48   |
| CRANKSHAFT FRONT COVER EFF. WITH 4D-115678                                     | 1.3000A   | 119  |
| CRANKSHAFT PULLEY STD. EQUIP. PRIOR TO 4D-904                                  | 1.3000C   | 111  |
| CRANKSHAFT PULLEY BELT STD. EQUIP. PRIOR TO 4D-029                             | 1.3000D   | 176  |
| FLYWHEEL                                                                       | 1.4000A   | 294  |
| FLYWHEEL HOUSING THRU 4D-17433                                                 | 1.5000A   | 175  |
| FLYWHEEL HOUSING EFF. WITH 4D-17434                                            | 1.5000A   | 345  |
| CONNECTING ROD AND PISTON THRU 4D-14985                                        | 1.6000    | 27   |
| CONNECTING ROD AND PISTON EFF WITH 4D-14986                                    | 1.6000    | 61   |
| CAMSHAFT AND GEAR TRAIN THRU 4D-180938                                         | 1.7000    | 34   |
| CAMSHAFT AND GEAR TRAIN EFF. WITH 4D-180939                                    | 1.7000    | 270  |
| VALVE OPERATING MECHANISM THRU 4D-158185                                       | 1.8000    | 31   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-158186 AND THRU 4D-162840               | 1.8000    | 186  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-162841 AND THRU 4D-167110               | 1.8000    | 31   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-167111 AND THRU 4D-180938               | 1.8000    | 186  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-180939                                  | 1.8000    | 171  |
| ROCKER COVER                                                                   | 1.8000A   | 40   |
| FUEL INJECTOR THRU 4D-1608                                                     | 2.1000A   | 40   |
| FUEL INJECTOR EFF. WITH 4D-1609 STD. EQUIP. PRIOR TO 4D-92156                  | 2.1000A   | 52   |
| FUEL INJECTOR                                                                  | 2.1000A   | 76   |
| FUEL PUMP THRU 4D-78175                                                        | 2.2000    | 34   |
| FUEL PUMP EFF. WITH 4D-78176 AND THRU 4D-172166                                | 2.2000    | 136  |
| FUEL PUMP EFF. WITH 4D-172167                                                  | 2.2000    | 178  |
| FUEL FILTER                                                                    | 2.3000A   | 157  |
| FUEL MANIFOLD CONNECTIONS                                                      | 2.4000    | 48   |
| FUEL LINES                                                                     | 2.5000A   | 357  |
| MECHANICAL GOVERNOR VARIABLE, THRU 4D-6000                                     | 2.7000A   | 510  |
| MECHANICAL GOVERNOR, VARIABLE, EFF. WITH 4D-6001 STD. EQUIP. PRIOR TO 4D-82397 | 2.7000A   | 1699 |
| INJECTOR CONTROLS THRU 4D-159163                                               | 2.9000    | 90   |
| INJECTOR CONTROLS EFF. WITH 4D-159164                                          | 2.9000    | 282  |
| AIR INLET HOUSING                                                              | 3.3000A   | 597  |
| BLOWER THRU 4D-36456                                                           | 3.4000    | 62   |
| BLOWER EFF. WITH 4D-36457 AND THRU 4D-180938                                   | 3.4000    | 115  |
| BLOWER EFF. WITH 4D-180939                                                     | 3.4000    | 317  |
| BLOWER DRIVE SHAFT                                                             | 3.4000A   | 17   |
| OIL PUMP                                                                       | 4.1000A   | 52   |
| OIL DISTRIBUTION SYSTEM THRU 4D-1002                                           | 4.1000B   | 166  |
| OIL DISTRIBUTION SYSTEM EFF. WITH 4D-1003                                      | 4.1000B   | 196  |
| OIL PRESSURE REGULATOR                                                         | 4.1000C   | 9    |
| OIL FILTER THRU 4D-21283                                                       | 4.2000A   | 108  |
| OIL FILTER EFF. WITH 4D-21284                                                  | 4.2000A   | 227  |
| OIL COOLER                                                                     | 4.4000A   | 226  |
| OIL FILLER                                                                     | 4.5000A   | 44   |
| DIPSTICK THRU 4D-1483                                                          | 4.6000A   | 107  |
| DIPSTICK EFF. WITH 4D-1484 AND THRU 4D-6813                                    | 4.6000A   | 168  |
| DIPSTICK EFF. WITH 4D-6814                                                     | 4.6000A   | 261  |
| OIL PAN THRU 4D-1002                                                           | 4.7000A   | 106  |
| OIL PAN EFF. WITH 4D-1003 AND THRU 4D-77320                                    | 4.7000A   | 145  |
| OIL PAN EFF. WITH 4D-77321                                                     | 4.7000A   | 591  |
| VENTILATING SYSTEM                                                             | 4.8000A   | 197  |
| FRESH WATER PUMP                                                               | 5.1000    | 38   |
| WATER OUTLET MANIFOLD                                                          | 5.2000A   | 67   |
| THERMOSTAT                                                                     | 5.2000B   | 72   |
| WATER BY-PASS TUBE                                                             | 5.2000C   | 130  |
| WATER CONNECTIONS                                                              | 5.3000B   | 117  |
| FAN STD. EQUIP. PRIOR TO 4D-030                                                | 5.4000A   | 310  |
| EXHAUST MANIFOLD THRU 4D-140                                                   | 6.1000A   | 119  |
| EXHAUST MANIFOLD EFF. WITH 4D-141 AND THRU 4D-519                              | 6.1000A   | 134  |
| EXHAUST MANIFOLD STD. EQUIP. PRIOR TO 4D-520                                   | 6.1000A   | 218  |
| EXHAUST MUFFLER (GASKET ONLY)                                                  | 6.2000A   | 255  |



DETROIT DIESEL 53 MPC ENGINES  
STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                              | GROUP<br>NO. | TYPE |
|-----------------------------------------------------------------------------------------|--------------|------|
| BATTERY CHARGING GENERATOR 12V., 25 AMP., CCW THRU 4D-3714 .....                        | 7.1000A      | 590  |
| BATTERY CHARGING GENERATOR 12V., 25 AMP., CCW EFF. WITH 4D-3715 AND THRU 4D-74631 ..... | 7.1000A      | 816  |
| BATTERY CHARGING GENERATOR 12V., 42 AMP., CCW STD. EQUIP. PRIOR TO 4D-74632 .....       | 7.1000A      | 2157 |
| STARTING MOTOR THRU 4D-12899 .....                                                      | 7.3000A      | 170  |
| STARTING MOTOR EFF. WITH 4D-12900 .....                                                 | 7.3000A      | 255  |
| INSTRUMENTS STD. EQUIP. PRIOR TO 4D-113256 .....                                        | 7.4000A      | 371  |
| TACHOMETER DRIVE .....                                                                  | 7.4000B      | 507  |
| SHUT-OFF SYSTEM STD. EQUIP. PRIOR TO 4D-030 .....                                       | 7.4000C      | 352  |
| ENGINE MOUNTS .....                                                                     | 11.1000A     | 306  |

## DETROIT DIESEL 53 MPC ENGINES

5043-5121

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                          | GROUP NO. | TYPE |
|-----------------------------------------------------|-----------|------|
| CYLINDER BLOCK .....                                | 1.1000    | 30   |
| AIR BOX DRAINS THRU 4D-11689 .....                  | 1.1000A   | 32   |
| AIR BOX DRAINS EFF. WITH 4D-11690 .....             | 1.1000A   | 63   |
| CYLINDER HEAD .....                                 | 1.2000    | 24   |
| CRANKSHAFT .....                                    | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER .....                        | 1.3000A   | 48   |
| CRANKSHAFT PULLEY .....                             | 1.3000C   | 111  |
| FLYWHEEL .....                                      | 1.4000A   | 402  |
| FLYWHEEL HOUSING .....                              | 1.5000A   | 213  |
| CONNECTING ROD AND PISTON .....                     | 1.6000    | 27   |
| CAMSHAFT AND GEAR TRAIN .....                       | 1.7000    | 34   |
| VALVE OPERATING MECHANISM .....                     | 1.8000    | 31   |
| ROCKER COVER .....                                  | 1.8000A   | 40   |
| FUEL INJECTOR THRU 4D-1608 .....                    | 2.1000A   | 40   |
| FUEL INJECTOR EFF. WITH 4D-1609 .....               | 2.1000A   | 52   |
| FUEL PUMP .....                                     | 2.2000    | 34   |
| FUEL FILTER .....                                   | 2.3000A   | 229  |
| FUEL MANIFOLD CONNECTIONS .....                     | 2.4000    | 48   |
| FUEL LINES THRU 4D-6118 .....                       | 2.5000A   | 498  |
| FUEL LINES EFF. WITH 4D-6119 .....                  | 2.5000A   | 561  |
| MECHANICAL GOVERNOR THRU 4D-3999 .....              | 2.7000A   | 562  |
| MECHANICAL GOVERNOR EFF. WITH 4D-4000 .....         | 2.7000A   | 605  |
| INJECTOR CONTROLS .....                             | 2.9000    | 90   |
| THROTTLE CONTROLS .....                             | 2.9000A   | 558  |
| AIR INLET HOUSING .....                             | 3.3000A   | 142  |
| BLOWER THRU 4D-36456 .....                          | 3.4000    | 62   |
| BLOWER EFF. WITH 4D-36457 .....                     | 3.4000    | 115  |
| BLOWER DRIVE SHAFT .....                            | 3.4000A   | 17   |
| OIL PUMP .....                                      | 4.1000A   | 52   |
| OIL DISTRIBUTION SYSTEM .....                       | 4.1000B   | 196  |
| OIL PRESSURE REGULATOR .....                        | 4.1000C   | 9    |
| OIL FILTER LINES .....                              | 4.3000A   | 98   |
| OIL COOLER .....                                    | 4.4000A   | 239  |
| OIL FILLER .....                                    | 4.5000A   | 44   |
| DIPSTICK THRU 4D-6762 .....                         | 4.6000A   | 168  |
| DIPSTICK EFF. WITH 4D-6763 .....                    | 4.6000A   | 261  |
| OIL PAN .....                                       | 4.7000A   | 157  |
| VENTILATING SYSTEM .....                            | 4.8000A   | 222  |
| FRESH WATER PUMP THRU 4D-6118 .....                 | 5.1000    | 39   |
| FRESH WATER PUMP EFF. WITH 4D-6119 .....            | 5.1000    | 70   |
| WATER OUTLET ELBOW .....                            | 5.2000A   | 67   |
| THERMOSTAT .....                                    | 5.2000B   | 91   |
| WATER BY-PASS TUBE THRU 4D-6118 .....               | 5.2000C   | 130  |
| WATER BY-PASS TUBE EFF. WITH 4D-6119 .....          | 5.2000C   | 182  |
| WATER CONNECTIONS .....                             | 5.3000B   | 117  |
| EXHAUST MANIFOLD THRU 4D-9739 .....                 | 6.1000A   | 166  |
| EXHAUST MANIFOLD EFF. WITH 4D-9740 .....            | 6.1000A   | 223  |
| EXHAUST MUFFLER CONNECTIONS THRU 4D-9739 .....      | 6.2000A   | 17   |
| EXHAUST MUFFLER CONNECTIONS EFF. WITH 4D-9740 ..... | 6.2000A   | 243  |
| STARTING MOTOR .....                                | 7.3000A   | 213  |
| TACHOMETER DRIVE .....                              | 7.4000B   | 289  |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                               | GROUP NO. | TYPE |
|----------------------------------------------------------|-----------|------|
| CYLINDER BLOCK THRU 4D-75730                             | 1.1000    | 91   |
| CYLINDER BLOCK EFF. WITH 4D-75731                        | 1.1000    | 30   |
| AIR BOX DRAINS                                           | 1.1000A   | 63   |
| CYLINDER HEAD                                            | 1.2000    | 24   |
| ENGINE LIFTER BRACKET THRU 4D-115677                     | 1.2000A   | 30   |
| ENGINE LIFTER BRACKET EFF. WITH 4D-115678                | 1.2000A   | 175  |
| CRANKSHAFT                                               | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER                                   | 1.3000A   | 48   |
| CRANKSHAFT PULLEY                                        | 1.3000C   | 111  |
| CRANKSHAFT PULLEY BELT                                   | 1.3000D   | 229  |
| FLYWHEEL                                                 | 1.4000A   | 294  |
| FLYWHEEL HOUSING                                         | 1.5000A   | 345  |
| CONNECTING ROD AND PISTON                                | 1.6000    | 27   |
| CAMSHAFT AND GEAR TRAIN                                  | 1.7000    | 34   |
| VALVE AND INJECTOR OPERATING MECHANISM                   | 1.8000    | 31   |
| ROCKER COVER                                             | 1.8000A   | 40   |
| FUEL INJECTOR STD. EQUIP. PRIOR TO 4D-92156              | 2.1000A   | 52   |
| FUEL PUMP                                                | 2.2000    | 34   |
| FUEL FILTER                                              | 2.3000A   | 575  |
| FUEL MANIFOLD CONNECTIONS                                | 2.4000    | 48   |
| FUEL LINES                                               | 2.5000A   | 1209 |
| MECHANICAL GOVERNOR STD. EQUIP. PRIOR TO 4D-106740       | 2.7000A   | 604  |
| INJECTOR CONTROLS                                        | 2.9000    | 192  |
| AIR INLET HOUSING                                        | 3.3000A   | 156  |
| BLOWER                                                   | 3.4000    | 115  |
| BLOWER DRIVE SHAFT                                       | 3.4000A   | 17   |
| OIL PUMP                                                 | 4.1000A   | 52   |
| OIL DISTRIBUTION SYSTEM                                  | 4.1000B   | 196  |
| OIL PRESSURE REGULATOR                                   | 4.1000C   | 9    |
| OIL FILTER                                               | 4.2000A   | 227  |
| OIL COOLER                                               | 4.4000A   | 226  |
| OIL FILLER                                               | 4.5000A   | 44   |
| DIPSTICK                                                 | 4.6000A   | 261  |
| OIL PAN                                                  | 4.7000A   | 145  |
| VENTILATING SYSTEM                                       | 4.8000A   | 197  |
| FRESH WATER PUMP                                         | 5.1000    | 152  |
| WATER OUTLET ELBOW                                       | 5.2000A   | 67   |
| THERMOSTAT                                               | 5.2000B   | 72   |
| WATER BY-PASS TUBE                                       | 5.2000C   | 325  |
| WATER CONNECTIONS                                        | 5.3000B   | 117  |
| FAN                                                      | 5.4000A   | 310  |
| EXHAUST MANIFOLD                                         | 6.1000A   | 218  |
| EXHAUST MUFFLER CONNECTIONS                              | 6.2000A   | 255  |
| BATTERY CHARGING GENERATOR STD. EQUIP. PRIOR TO 4D-82271 | 7.1000A   | 1693 |
| STARTING MOTOR THRU 4D-89928                             | 7.3000A   | 212  |
| STARTING MOTOR EFF. WITH 4D-89929 AND THRU 4D-91597      | 7.3000A   | 297  |
| STARTING MOTOR EFF. WITH 4D-91598                        | 7.3000A   | 298  |
| TACHOMETER DRIVE THRU 4D-90094                           | 7.4000B   | 507  |
| TACHOMETER DRIVE EFF. WITH 4D-90095                      | 7.4000B   | 547  |
| AUTOMATIC SHUTDOWN                                       | 7.4000C   | 869  |
| OVERSPEED GOVERNOR                                       | 7.4000C   | 568  |
| COLD WEATHER STARTING AID                                | 12.6000C  | 45   |

## DETROIT DIESEL 53 MPC ENGINES

5043-5200

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                                                                            | GROUP NO. | TYPE |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK                                                                                                                        | 1.1000    | 30   |
| AIR BOX DRAINS PRIOR TO 4D-11690                                                                                                      | 1.1000A   | 32   |
| AIR BOX DRAINS EFFECTIVE WITH 4D-11690                                                                                                | 1.1000A   | 63   |
| CYLINDER HEAD                                                                                                                         | 1.2000    | 25   |
| ENGINE LIFTER BRACKET (OPTIONAL EQUIP. EFF. WITH 4D-14227, STANDARD EQUIP. NOT SHOWN ON<br>OPTION PLATE PRIOR TO THIS SERIAL NUMBER.) | 1.2000A   | 30   |
| ENGINE LIFTER BRACKET (USE WITH RADIATOR SHEEL & SHORT HOODS)                                                                         | 1.2000A   | 42   |
| CRANKSHAFT                                                                                                                            | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER (NO AIR COMPRESSOR OR VACUUM PUMP)                                                                             | 1.3000A   | 48   |
| CRANKSHAFT FRONT COVER (WITH AIR COMPRESSOR OR VACUUM PUMP)                                                                           | 1.3000A   | 57   |
| CRANKSHAFT PULLEY                                                                                                                     | 1.3000C   | 111  |
| CRANKSHAFT PULLEY BELT (WITH 1:1 RATIO FAN)                                                                                           | 1.3000D   | 176  |
| CRANKSHAFT PULLEY BELT (WITH 1.25:1 RATIO FAN)                                                                                        | 1.3000D   | 91   |
| FLYWHEEL (DELCO POWER GENERATOR)                                                                                                      | 1.4000A   | 331  |
| FLYWHEEL (TWIN DISC PTO C-110 HP2)                                                                                                    | 1.4000A   | 340  |
| FLYWHEEL (TWIN DISC CLUTCH C111 OR ROCKFORD PTA 31120)                                                                                | 1.4000A   | 325  |
| FLYWHEEL (LIPE ROLLWAY 13 ML CLUTCH)                                                                                                  | 1.4000A   | 326  |
| FLYWHEEL (10" CLUTCH)                                                                                                                 | 1.4000A   | 327  |
| FLYWHEEL (ROCKFORD 14" TT CLUTCH)                                                                                                     | 1.4000A   | 328  |
| FLYWHEEL (ALLISON CRT 3331 OR TC 300)                                                                                                 | 1.4000A   | 336  |
| FLYWHEEL (ROCKFORD 11" TT CLUTCH)                                                                                                     | 1.4000A   | 324  |
| FLYWHEEL (8" CLUTCH)                                                                                                                  | 1.4000A   | 297  |
| FLYWHEEL (10" CLUTCH, DETROIT DIESEL PTO)                                                                                             | 1.4000A   | 305  |
| FLYWHEEL (10" CLUTCH)                                                                                                                 | 1.4000A   | 296  |
| FLYWHEEL HOUSING                                                                                                                      | 1.5000A   | 177  |
| FLYWHEEL HOUSING                                                                                                                      | 1.5000A   | 345  |
| FLYWHEEL HOUSING                                                                                                                      | 1.5000A   | 178  |
| CONNECTING ROD AND PISTON                                                                                                             | 1.6000    | 27   |
| CAMSHAFT AND GEAR TRAIN                                                                                                               | 1.7000    | 34   |
| ACCESSORY DRIVE (DOUBLE GROOVE PULLEY) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS<br>ON OPTION PLATE.)                          | 1.7000B   | 60   |
| VALVE OPERATING MECHANISM                                                                                                             | 1.8000    | 32   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-158186 AND THRU 4D-162840                                                                      | 1.8000    | 122  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-162841 AND THRU 4D-167110                                                                      | 1.8000    | 32   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-167111                                                                                         | 1.8000    | 122  |
| ROCKER COVER (PLAIN)                                                                                                                  | 1.8000A   | 40   |
| ROCKER COVER (WITH OIL FILLER HOLE)                                                                                                   | 1.8000A   | 41   |
| FUEL INJECTOR                                                                                                                         | 2.1000A   | 51   |
| FUEL INJECTOR                                                                                                                         | 2.1000A   | 52   |
| FUEL PUMP                                                                                                                             | 2.2000    | 34   |
| FUEL FILTER (WITH ENGINE OIL COOLER)                                                                                                  | 2.3000A   | 157  |
| FUEL FILTER (WITH ENGINE AND TORQUE CONVERTER OIL COOLER)                                                                             | 2.3000A   | 188  |
| FUEL MANIFOLD CONNECTIONS                                                                                                             | 2.4000    | 48   |
| FUEL LINES (WITH ENGINE OIL COOLER)                                                                                                   | 2.5000A   | 427  |
| FUEL LINES (WITH ENGINE AND TORQUE CONVERTER OIL COOLER)                                                                              | 2.5000A   | 673  |
| MECHANICAL GOVERNOR (VARIABLE SPEED, CLOSED LINKAGE)                                                                                  | 2.7000A   | 602  |
| MECHANICAL GOVERNOR (VARIABLE SPEED, OPEN LINKAGE)                                                                                    | 2.7000A   | 597  |
| GOVERNOR - MECHANICAL (LIMITING SPEED)                                                                                                | 2.7000A   | 589  |
| INJECTOR CONTROL TUBE                                                                                                                 | 2.9000    | 90   |
| THROTTLE CONTROLS (WITH CLOSED LINKAGE GOVERNOR)                                                                                      | 2.9000A   | 603  |
| THROTTLE CONTROLS (WITH OPEN LINKAGE GOVERNOR)                                                                                        | 2.9000A   | 504  |
| AIR CLEANER (LIGHT DUTY, 11") (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION<br>PLATE.)                                   | 3.1000A   | 198  |
| AIR CLEANER (LIGHT DUTY, 12") (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION<br>PLATE.)                                   | 3.1000A   | 150  |
| AIR CLEANER (LIGHT DUTY, DUAL) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION<br>PLATE.)                                  | 3.1000A   | 149  |
| AIR INLET HOUSING (MANUAL SHUTDOWN)                                                                                                   | 3.3000A   | 142  |
| BLOWER THRU 4D-36456                                                                                                                  | 3.4000    | 62   |
| BLOWER EFFECTIVE WITH 4D-36457                                                                                                        | 3.4000    | 115  |
| BLOWER DRIVE SHAFT                                                                                                                    | 3.4000A   | 17   |
| OIL PUMP                                                                                                                              | 4.1000A   | 52   |
| OIL DISTRIBUTION SYSTEM (10 DEG. INCLINED OPERATION)                                                                                  | 4.1000B   | 196  |
| OIL DISTRIBUTION SYSTEM (20 DEG. INCLINED OPERATION)                                                                                  | 4.1000B   | 213  |
| OIL PRESSURE REGULATOR                                                                                                                | 4.1000C   | 9    |
| OIL FILTER (MOUNTED ON OIL COOLER ADAPTOR)                                                                                            | 4.2000A   | 227  |
| OIL FILTER (REMOTE MOUNTED)                                                                                                           | 4.2000A   | 130  |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                                                                      | GROUP NO. | TYPE |
|---------------------------------------------------------------------------------------------------------------------------------|-----------|------|
| OIL FILTER LINES (ADAPTOR ONLY)                                                                                                 | 4.3000A   | 131  |
| OIL COOLER (ENGINE OIL)                                                                                                         | 4.4000A   | 226  |
| OIL COOLER (ENGINE AND TORQUE CONVERTER OIL)                                                                                    | 4.4000A   | 268  |
| OIL FILLER (ON ROCKER COVER)                                                                                                    | 4.5000A   | 18   |
| OIL FILLER (ON BREATHER)                                                                                                        | 4.5000A   | 44   |
| DIPSTICK (10 DEG. INCLINED OPERATION)                                                                                           | 4.6000A   | 261  |
| DIPSTICK (20 DEG. INCLINED OPERATION, WITH 8.42" GUIDE)                                                                         | 4.6000A   | 384  |
| DIPSTICK (20 DEG. INCLINED OPERATION, WITH 6" GUIDE)                                                                            | 4.6000A   | 258  |
| OIL PAN (10 DEG. INCLINED OPERATION, STAMPED)                                                                                   | 4.7000A   | 145  |
| OIL PAN (20 DEG. INCLINED OPERATION, CAST)                                                                                      | 4.7000A   | 247  |
| VENTILATING SYSTEM (PLAIN)                                                                                                      | 4.8000A   | 196  |
| VENTILATING SYSTEM (WITH OIL FILLER HOLE)                                                                                       | 4.8000A   | 222  |
| FRESH WATER PUMP                                                                                                                | 5.1000    | 38   |
| WATER OUTLET ELBOW (VERTICAL OUTLET)                                                                                            | 5.2000A   | 67   |
| WATER OUTLET ELBOW (HORIZONTAL OUTLET)                                                                                          | 5.2000A   | 70   |
| THERMOSTAT                                                                                                                      | 5.2000B   | 72   |
| WATER BY-PASS TUBE                                                                                                              | 5.2000C   | 130  |
| RADIATOR (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)                                                     | 5.3000A   | 80   |
| RADIATOR (CORE ONLY) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)                                         | 5.3000A   | 100  |
| WATER CONNECTIONS (NO RADIATOR CONNECTIONS, WITH MANUAL OR NO SHUTDOWN)                                                         | 5.3000B   | 117  |
| WATER CONNECTIONS (WITH RADIATOR CONNECTIONS, WITH MANUAL OR NO SHUTDOWN)                                                       | 5.3000B   | 135  |
| WATER CONNECTIONS (NO RADIATOR CONNECTIONS, WITH MECHANICAL SHUTDOWN)                                                           | 5.3000B   | 122  |
| WATER CONNECTIONS (WITH RADIATOR CONNECTIONS, WITH MECHANICAL SHUTDOWN)                                                         | 5.3000B   | 136  |
| FAN (SUCTION, 22" - 5 BLADE, 1:1 RATIO)                                                                                         | 5.4000A   | 276  |
| FAN (BLOWER, 22" - 5 BLADE, 1:1 RATIO)                                                                                          | 5.4000A   | 280  |
| FAN (SUCTION, 22" - 5 BLADE, 1.25:1 RATIO)                                                                                      | 5.4000A   | 277  |
| FAN (BLOWER, 22" - 5 BLADE, 1.25:1 RATIO)                                                                                       | 5.4000A   | 278  |
| EXHAUST MANIFOLD (WITH MECHANICAL SHUTDOWN, VERTICAL CENTER OUTLET)                                                             | 6.1000A   | 224  |
| EXHAUST MANIFOLD (WITH MANUAL OR NO SHUTDOWN, VERTICAL CENTER OUTLET)                                                           | 6.1000A   | 218  |
| EXHAUST MANIFOLD (WITH MANUAL OR NO SHUTDOWN, HORIZONTAL CENTER OUTLET)                                                         | 6.1000A   | 179  |
| EXHAUST MUFFLER CONNECTIONS (3" PIPE THREAD)                                                                                    | 6.2000A   | 243  |
| EXHAUST MUFFLER (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)                                              | 6.2000A   | 185  |
| BATTERY CHARGING GENERATOR (12V., 25 AMP.)                                                                                      | 7.1000A   | 816  |
| STARTING MOTOR (12V.)                                                                                                           | 7.3000A   | 255  |
| INSTRUMENT PANEL (5' CAPILLARY TUBE)                                                                                            | 7.4000A   | 372  |
| INSTRUMENT PANEL (10' CAPILLARY TUBE)                                                                                           | 7.4000A   | 373  |
| INSTRUMENT PANEL (15' CAPILLARY TUBE)                                                                                           | 7.4000A   | 374  |
| INSTRUMENT PANEL (TACHOMETER ONLY) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)                           | 7.40 00A  | 390  |
| TACHOMETER DRIVE (DRIVEN FROM BALANCER SHAFT) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)                | 7.4000B   | 189  |
| TACHOMETER DRIVE (DRIVEN FROM GOVERNOR SHAFT) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)                | 7.4000B   | 181  |
| TACHOMETER DRIVE (NO OIL SEAL, DRIVEN FROM BALANCER SHAFT) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)   | 7.4000B   | 199  |
| TACHOMETER DRIVE (WITH OIL SEAL, DRIVEN FROM BALANCER SHAFT) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.) | 7.4000B   | 201  |
| TACHOMETER DRIVE (DRIVEN FROM CAMSHAFT, CHANGES ROTATION) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)    | 7.4000B   | 202  |
| OVERSPEED GOVERNOR                                                                                                              | 7.4000C   | 635  |
| POWER TAKE-OFF (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)                                               | 8.1000A   | 180  |
| ENGINE HOODS                                                                                                                    | 10.1000A  | NONE |
| ENGINE MOUNTING (FRONT ONLY, STATIONARY) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)                     | 11.1000A  | 306  |
| ENGINE MOUNTING (FRONT ONLY, LIGHT DUTY TRUNNION) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)            | 11.1000A  | 446  |
| ENGINE MOUNTING (FRONT ONLY, LIGHT DUTY TRUNNION) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)            | 11.1000A  | 430  |
| COLD WEATHER STARTING AID (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)                                    | 12.6000C  | 3    |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                                        | GROUP NO. | TYPE |
|---------------------------------------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK THRU 4D-75730                                                                      | 1.1000    | 91   |
| CYLINDER BLOCK EFF. WITH 4D-75731                                                                 | 1.1000    | 30   |
| AIR BOX DRAINS THRU 4D-11689                                                                      | 1.1000A   | 25   |
| AIR BOX DRAINS EFF. WITH 4D-11690                                                                 | 1.1000A   | 63   |
| CYLINDER HEAD                                                                                     | 1.2000    | 25   |
| ENGINE LIFTER BRACKET                                                                             | 1.2000A   | •    |
| CRANKSHAFT                                                                                        | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                           | 1.3000A   | 48   |
| CRANKSHAFT FRONT COVER                                                                            | 1.3000A   | •    |
| CRANKSHAFT PULLEY                                                                                 | 1.3000C   | •    |
| CRANKSHAFT PULLEY BELT                                                                            | 1.3000D   | •    |
| FLYWHEEL                                                                                          | 1.4000A   | •    |
| FLYWHEEL HOUSING                                                                                  | 1.5000A   | •    |
| CONNECTING ROD AND PISTON THRU 4D-14985                                                           | 1.6000    | 27   |
| CONNECTING ROD AND PISTON EFF. WITH 4D-14986 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE | 1.6000    | 61   |
| CONNECTING ROD AND PISTON                                                                         | 1.6000    | •    |
| CAMSHAFT AND GEAR TRAIN THRU 4D-180938                                                            | 1.7000    | 34   |
| CAMSHAFT AND GEAR TRAIN EFF. WITH 4D-180939                                                       | 1.7000    | 270  |
| VALVE OPERATING MECHANISM THRU 4D-158185                                                          | 1.8000    | 32   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-158186 AND THRU 4D-162840                                  | 1.8000    | 122  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-162841 AND THRU 4D-167110                                  | 1.8000    | 32   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-167111 AND THRU 4D-180938                                  | 1.8000    | 122  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-180939                                                     | 1.8000    | 167  |
| ROCKER COVER                                                                                      | 1.8000A   | •    |
| FUEL INJECTOR                                                                                     | 2.1000A   | •    |
| FUEL PUMP THRU 4D-78175                                                                           | 2.2000    | 34   |
| FUEL PUMP EFF. WITH 4D-78176 AND THRU 4D-172166                                                   | 2.2000    | 136  |
| FUEL PUMP EFF. WITH 4D-172167                                                                     | 2.2000    | 178  |
| FUEL FILTER                                                                                       | 2.3000A   | •    |
| FUEL MANIFOLD CONNECTIONS                                                                         | 2.4000    | 48   |
| FUEL LINES                                                                                        | 2.5000A   | •    |
| MECHANICAL GOVERNOR                                                                               | 2.7000A   | •    |
| INJECTOR CONTROLS THRU 4D-159163                                                                  | 2.9000    | 90   |
| INJECTOR CONTROLS EFF. WITH 4D-159164                                                             | 2.9000    | 282  |
| THROTTLE CONTROLS                                                                                 | 2.9000A   | •    |
| AIR INLET HOUSING                                                                                 | 3.3000A   | •    |
| BLOWER THRU 4D-36456                                                                              | 3.4000    | 62   |
| BLOWER EFF. WITH 4D-36457 AND THRU 4D-180938                                                      | 3.4000    | 115  |
| BLOWER EFF. WITH 4D-180939                                                                        | 3.4000    | 317  |
| BLOWER DRIVE SHAFT                                                                                | 3.4000A   | 17   |
| OIL PUMP                                                                                          | 4.1000A   | 52   |
| OIL DISTRIBUTION SYSTEM                                                                           | 4.1000B   | •    |
| OIL PRESSURE REGULATOR                                                                            | 4.1000C   | •    |
| OIL FILTER                                                                                        | 4.2000A   | •    |
| OIL COOLER                                                                                        | 4.4000A   | •    |
| OIL FILLER                                                                                        | 4.5000A   | •    |
| DIPSTICK                                                                                          | 4.6000A   | •    |
| OIL PAN                                                                                           | 4.7000A   | •    |
| VENTILATING SYSTEM                                                                                | 4.8000A   | •    |
| FRESH WATER PUMP THRU 4D-66996                                                                    | 5.1000    | 39   |
| FRESH WATER PUMP EFF. WITH 4D-66997                                                               | 5.1000    | 146  |
| WATER OUTLET MANIFOLD STD. EQUIP. PRIOR TO 4D-66996                                               | 5.2000A   | •    |
| THERMOSTAT                                                                                        | 5.2000B   | 72   |
| WATER BY-PASS TUBE THRU 4D-66996                                                                  | 5.2000C   | 130  |
| WATER BY-PASS TUBE EFF. WITH 4D-66997                                                             | 5.2000C   | 318  |
| WATER CONNECTIONS                                                                                 | 5.3000B   | •    |
| FAN                                                                                               | 5.4000A   | •    |
| EXHAUST MANIFOLD                                                                                  | 6.1000A   | •    |
| EXHAUST MUFFLER CONNECTIONS                                                                       | 6.2000A   | •    |
| BATTERY CHARGING GENERATOR                                                                        | 7.1000A   | •    |
| STARTING MOTOR                                                                                    | 7.3000A   | •    |
| INSTRUMENTS                                                                                       | 7.4000A   | •    |

• STANDARD OPTION REFER TO OPTION PLATE.

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                     | GROUP NO. | TYPE |
|------------------------------------------------|-----------|------|
| CYLINDER BLOCK                                 | 1.1000    | 30   |
| AIR BOX DRAINS THRU 4D-11689                   | 1.1000A   | 32   |
| AIR BOX DRAINS EFF. WITH 4D-11690              | 1.1000A   | 63   |
| CYLINDER HEAD                                  | 1.2000    | 57   |
| CRANKSHAFT                                     | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER                         | 1.3000A   | 48   |
| CRANKSHAFT PULLEY                              | 1.3000C   | 111  |
| FLYWHEEL                                       | 1.4000A   | 402  |
| FLYWHEEL HOUSING THRU 4D-22684                 | 1.5000A   | 213  |
| FLYWHEEL HOUSING EFF. WITH 4D-22685            | 1.5000A   | 388  |
| CONNECTING ROD AND PISTON THRU 4D-21258        | 1.6000    | 66   |
| CONNECTING ROD AND PISTON EFF. WITH 4D-21259   | 1.6000    | 77   |
| CAMSHAFT AND GEAR TRAIN                        | 1.7000    | 34   |
| VALVE OPERATING MECHANISM                      | 1.8000    | 47   |
| ROCKER COVER                                   | 1.8000A   | 40   |
| FUEL INJECTOR                                  | 2.1000A   | 52   |
| FUEL PUMP                                      | 2.2000    | 60   |
| FUEL FILTER                                    | 2.3000A   | 229  |
| FUEL MANIFOLD CONNECTIONS                      | 2.4000    | 48   |
| FUEL LINES                                     | 2.5000A   | 561  |
| MECHANICAL GOVERNOR                            | 2.7000A   | 605  |
| INJECTOR CONTROLS                              | 2.9000    | 90   |
| THROTTLE CONTROLS                              | 2.9000A   | 558  |
| AIR INLET HOUSING                              | 3.3000A   | 142  |
| BLOWER THRU 4D-36456                           | 3.4000    | 62   |
| BLOWER EFF. WITH 4D-36457                      | 3.4000    | 116  |
| BLOWER DRIVE SHAFT                             | 3.4000A   | 17   |
| OIL PUMP                                       | 4.1000A   | 52   |
| OIL DISTRIBUTION SYSTEM                        | 4.1000B   | 196  |
| OIL PRESSURE REGULATOR                         | 4.1000C   | 9    |
| OIL FILTER LINES THRU 4D-21622                 | 4.3000A   | 98   |
| OIL FILTER LINES EFF. WITH 4D-21623            | 4.3000A   | 140  |
| OIL COOLER                                     | 4.4000A   | 239  |
| OIL FILLER                                     | 4.5000A   | 44   |
| DIPSTICK                                       | 4.6000A   | 261  |
| OIL PAN                                        | 4.7000A   | 157  |
| VENTILATING SYSTEM                             | 4.8000A   | 222  |
| FRESH WATER PUMP                               | 5.1000    | 70   |
| WATER OUTLET ELBOW                             | 5.2000A   | 67   |
| THERMOSTAT                                     | 5.2000B   | 91   |
| WATER BY-PASS TUBE                             | 5.2000C   | 182  |
| WATER CONNECTIONS                              | 5.3000B   | 117  |
| EXHAUST MANIFOLD THRU 4D-10166                 | 6.1000A   | 166  |
| EXHAUST MANIFOLD EFF. WITH 4D-10167            | 6.1000A   | 223  |
| EXHAUST MUFFLER CONNECTIONS THRU 4D-10166      | 6.2000A   | 17   |
| EXHAUST MUFFLER CONNECTIONS EFF. WITH 4D-10167 | 6.2000A   | 243  |
| STARTING MOTOR                                 | 7.3000A   | 213  |
| TACHOMETER DRIVE                               | 7.4000B   | 200  |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                 | GROUP NO. | TYPE |
|--------------------------------------------|-----------|------|
| CYLINDER BLOCK .....                       | 1.1000    | 164  |
| AIR BOX DRAINS .....                       | 1.1000A   | 63   |
| CYLINDER HEAD .....                        | 1.2000    | 131  |
| ENGINE LIFTER BRACKET .....                | 1.2000A   | •    |
| CRANKSHAFT .....                           | 1.3000    | 68   |
| CRANKSHAFT FRONT COVER .....               | 1.3000A   | •    |
| CRANKSHAFT PULLEY .....                    | 1.3000C   | •    |
| CRANKSHAFT PULLEY BELT .....               | 1.3000D   | •    |
| FLYWHEEL .....                             | 1.4000A   | •    |
| FLYWHEEL HOUSING .....                     | 1.5000A   | •    |
| CONNECTING ROD AND PISTON .....            | 1.6000    | 180  |
| CAMSHAFT AND GEAR TRAIN .....              | 1.7000    | 153  |
| VALVE OPERATING MECHANISM .....            | 1.8000    | 62   |
| ROCKER COVER .....                         | 1.8000A   | •    |
| FUEL INJECTOR .....                        | 2.1000A   | •    |
| FUEL PUMP .....                            | 2.2000    | 169  |
| FUEL FILTER .....                          | 2.3000A   | 181  |
| FUEL MANIFOLD CONNECTIONS .....            | 2.4000    | 48   |
| FUEL LINES .....                           | 2.5000A   | 1467 |
| MECHANICAL GOVERNOR .....                  | 2.7000A   | •    |
| INJECTOR CONTROLS .....                    | 2.9000    | 270  |
| AIR INLET HOUSING .....                    | 3.3000A   | 574  |
| BLOWER .....                               | 3.4000    | 273  |
| BLOWER DRIVE SHAFT .....                   | 3.4000A   | 17   |
| TURBOCHARGER .....                         | 3.5000A   | •    |
| OIL PUMP .....                             | 4.1000A   | •    |
| OIL DISTRIBUTION SYSTEM .....              | 4.1000B   | •    |
| OIL PRESSURE REGULATOR .....               | 4.1000C   | •    |
| OIL FILTER .....                           | 4.2000A   | •    |
| OIL COOLER .....                           | 4.4000A   | •    |
| OIL FILLER .....                           | 4.5000A   | •    |
| DIPSTICK .....                             | 4.6000A   | •    |
| OIL PAN .....                              | 4.7000A   | •    |
| VENTILATING SYSTEM (ON ROCKER COVER) ..... | 4.8000A   | •    |
| FRESH WATER PUMP .....                     | 5.1000    | •    |
| WATER OUTLET ELBOW .....                   | 5.2000A   | •    |
| THERMOSTAT .....                           | 5.2000B   | •    |
| WATER BY-PASS TUBE .....                   | 5.2000C   | •    |
| WATER CONNECTIONS .....                    | 5.3000B   | •    |
| FAN .....                                  | 5.4000A   | •    |
| EXHAUST MANIFOLD .....                     | 6.1000A   | •    |
| BATTERY CHARGING GENERATOR .....           | 7.1000A   | •    |
| STARTING MOTOR .....                       | 7.3000A   | •    |
| AIR COMPRESSOR .....                       | 12.4000A  | •    |

• STANDARD OPTION REFER TO OPTION PLATE.



## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                                      | GROUP NO. | TYPE |
|-------------------------------------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                                 | 1.1000    | 30   |
| CYLINDER BLOCK                                                                                  | 1.1000    | •    |
| AIR BOX DRAINS                                                                                  | 1.1000A   | •    |
| CYLINDER HEAD                                                                                   | 1.2000    | 25   |
| ENGINE LIFTER BRACKET STD. EQUIP. PRIOR TO BEING SHOWN ON OPT. PLATE                            | 1.2000A   | 30   |
| ENGINE LIFTER BRACKET                                                                           | 1.2000A   | •    |
| CRANKSHAFT STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                                     | 1.3000    | 21   |
| CRANKSHAFT                                                                                      | 1.3000    | •    |
| CRANKSHAFT FRONT COVER STD. EQUIP. PRIOR TO 4D-106207 AND THRU 4D-115677                        | 1.3000A   | 48   |
| CRANKSHAFT FRONT COVER EFF. WITH 4D-115678 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE | 1.3000A   | 119  |
| CRANKSHAFT FRONT COVER                                                                          | 1.3000A   | •    |
| CRANKSHAFT PULLEY                                                                               | 1.3000C   | •    |
| CRANKSHAFT PULLEY BELT                                                                          | 1.3000D   | •    |
| FLYWHEEL                                                                                        | 1.4000A   | •    |
| FLYWHEEL HOUSING                                                                                | 1.5000A   | •    |
| CONNECTING ROD AND PISTON STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                      | 1.6000    | 61   |
| CONNECTING ROD AND PISTON                                                                       | 1.6000    | •    |
| CAMSHAFT AND GEAR TRAIN THRU 4D-180938                                                          | 1.7000    | 85   |
| CAMSHAFT AND GEAR TRAIN EFF. WITH 4D-180939                                                     | 1.7000    | 269  |
| BALANCE WEIGHT COVER                                                                            | 1.7000A   | •    |
| VALVE OPERATING MECHANISM THRU 4D-158185                                                        | 1.8000    | 32   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-158186 AND THRU 4D-162840                                | 1.8000    | 122  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-162841 AND THRU 4D-167110                                | 1.8000    | 32   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-167111 AND THRU 4D-180938                                | 1.8000    | 122  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-180939                                                   | 1.8000    | 167  |
| ROCKER COVER                                                                                    | 1.8000A   | •    |
| FUEL INJECTOR                                                                                   | 2.1000A   | •    |
| FUEL PUMP THRU 4D-78175                                                                         | 2.2000    | 33   |
| FUEL PUMP EFF. WITH 4D-78176 AND THRU 4D-172166                                                 | 2.2000    | 127  |
| FUEL PUMP EFF. WITH 4D-172167                                                                   | 2.2000    | 180  |
| FUEL FILTER                                                                                     | 2.3000A   | •    |
| FUEL MANIFOLD CONNECTIONS                                                                       | 2.4000    | 48   |
| FUEL LINES                                                                                      | 2.5000A   | •    |
| MECHANICAL GOVERNOR                                                                             | 2.7000A   | •    |
| INJECTOR CONTROLS THRU 4D-156694                                                                | 2.9000    | 120  |
| INJECTOR CONTROLS EFF. WITH 4D-156695 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE      | 2.9000    | 284  |
| INJECTOR CONTROLS                                                                               | 2.9000    | •    |
| THROTTLE CONTROLS                                                                               | 2.9000A   | 504  |
| AIR INLET HOUSING                                                                               | 3.3000A   | •    |
| BLOWER THRU 4D-36456                                                                            | 3.4000    | 63   |
| BLOWER EFF. WITH 4D-36457 AND THRU 4D-180938                                                    | 3.4000    | 116  |
| BLOWER EFF. WITH 4D-180939 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                 | 3.4000    | 319  |
| BLOWER                                                                                          | 3.4000    | •    |
| BLOWER DRIVE SHAFT                                                                              | 3.4000A   | 17   |
| OIL PUMP THRU 4D-200699                                                                         | 4.1000A   | 52   |
| OIL PUMP EFF. WITH 4D-200700                                                                    | 4.1000A   | 172  |
| OIL DISTRIBUTION SYSTEM                                                                         | 4.1000B   | •    |
| OIL PRESSURE REGULATOR                                                                          | 4.1000C   | 9    |
| OIL FILTER                                                                                      | 4.2000A   | •    |
| OIL COOLER                                                                                      | 4.4000A   | •    |
| OIL FILLER                                                                                      | 4.5000A   | •    |
| DIPSTICK                                                                                        | 4.6000A   | •    |
| OIL PAN                                                                                         | 4.7000A   | •    |
| VENTILATING SYSTEM                                                                              | 4.8000A   | •    |
| FRESH WATER PUMP                                                                                | 5.1000    | •    |
| WATER OUTLET ELBOW                                                                              | 5.2000A   | •    |
| THERMOSTAT STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                                     | 5.2000B   | 72   |
| THERMOSTAT                                                                                      | 5.2000B   | •    |
| WATER BY-PASS TUBE                                                                              | 5.2000C   | •    |
| WATER CONNECTIONS                                                                               | 5.3000B   | •    |
| FAN                                                                                             | 5.4000A   | •    |
| EXHAUST MANIFOLD                                                                                | 6.1000A   | •    |
| EXHAUST MUFFLER CONNECTIONS                                                                     | 6.2000A   | •    |
| BATTERY CHARGING GENERATOR                                                                      | 7.1000A   | •    |
| STARTING MOTOR                                                                                  | 7.3000A   | •    |

• STANDARD OPTION REFER TO OPTION PLATE.

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                                      | GROUP NO. | TYPE |
|-------------------------------------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                                 | 1.1000    | 30   |
| CYLINDER BLOCK                                                                                  | 1.1000    | •    |
| AIR BOX DRAINS                                                                                  | 1.1000A   | 63   |
| CYLINDER HEAD STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                                  | 1.2000    | 25   |
| CYLINDER HEAD                                                                                   | 1.2000    | •    |
| ENGINE LIFTER BRACKET                                                                           | 1.2000A   | •    |
| CRANKSHAFT                                                                                      | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER                                                                          | 1.3000A   | •    |
| CRANKSHAFT PULLEY                                                                               | 1.3000C   | •    |
| CRANKSHAFT PULLEY BELT                                                                          | 1.3000D   | •    |
| FLYWHEEL                                                                                        | 1.4000A   | •    |
| FLYWHEEL HOUSING                                                                                | 1.5000A   | •    |
| CONNECTING ROD AND PISTON STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                      | 1.6000    | 61   |
| CONNECTING ROD AND PISTON                                                                       | 1.6000    | •    |
| CAMSHAFT AND GEAR TRAIN THRU 4D-180938                                                          | 1.7000    | 85   |
| CAMSHAFT AND GEAR TRAIN EFF. WITH 4D-180939 STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE    | 1.7000    | 269  |
| BALANCE WEIGHT COVER                                                                            | 1.7000A   | •    |
| VALVE OPERATING MECHANISM THRU 4D-158185                                                        | 1.8000    | 32   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-158186 AND THRU 4D-162840                                | 1.8000    | 122  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-162841 AND THRU 4D-167110                                | 1.8000    | 32   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-167111 AND THRU 4D-180938                                | 1.8000    | 122  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-180939, STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE | 1.8000    | 167  |
| VALVE OPERATING MECHANISM                                                                       | 1.8000    | •    |
| ROCKER COVER                                                                                    | 1.8000A   | •    |
| FUEL INJECTOR                                                                                   | 2.1000A   | •    |
| FUEL PUMP THRU 4D-173135                                                                        | 2.2000    | 127  |
| FUEL PUMP EFF. WITH 4D-173136                                                                   | 2.2000    | 180  |
| FUEL FILTER                                                                                     | 2.3000A   | •    |
| FUEL MANIFOLD CONNECTIONS                                                                       | 2.4000    | 48   |
| FUEL LINES                                                                                      | 2.5000A   | •    |
| MECHANICAL GOVERNOR                                                                             | 2.7000A   | •    |
| INJECTOR CONTROLS THRU 4D-156694                                                                | 2.9000    | 120  |
| INJECTOR CONTROLS EFF. WITH 4D-156695, STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE         | 2.9000    | 284  |
| INJECTOR CONTROLS                                                                               | 2.9000    | •    |
| THROTTLE CONTROLS                                                                               | 2.9000A   | •    |
| AIR INLET HOUSING                                                                               | 3.3000A   | •    |
| BLOWER THRU 4D-36456                                                                            | 3.4000    | 63   |
| BLOWER EFF. WITH 4D-36457 AND THRU 4D-180938                                                    | 3.4000    | 116  |
| BLOWER EFF. WITH 4D-180939, STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                    | 3.4000    | 318  |
| BLOWER                                                                                          | 3.4000    | •    |
| BLOWER DRIVE SHAFT                                                                              | 3.4000A   | 17   |
| OIL PUMP STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                                       | 4.1000A   | 52   |
| OIL PUMP                                                                                        | 4.1000A   | •    |
| OIL DISTRIBUTION SYSTEM                                                                         | 4.1000B   | •    |
| OIL PRESSURE REGULATOR STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                         | 4.1000C   | 9    |
| OIL PRESSURE REGULATOR                                                                          | 4.1000C   | •    |
| OIL FILTER                                                                                      | 4.2000A   | •    |
| OIL COOLER                                                                                      | 4.4000A   | •    |
| OIL FILLER                                                                                      | 4.5000A   | •    |
| DIPSTICK                                                                                        | 4.6000A   | •    |
| OIL PAN                                                                                         | 4.7000A   | •    |
| VENTILATING SYSTEM                                                                              | 4.8000A   | •    |
| FRESH WATER PUMP                                                                                | 5.1000    | •    |
| WATER OUTLET ELBOW                                                                              | 5.2000A   | •    |
| THERMOSTAT STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                                     | 5.2000B   | 72   |
| THERMOSTAT                                                                                      | 5.2000B   | •    |
| WATER BY-PASS TUBE                                                                              | 5.2000C   | •    |
| WATER CONNECTIONS                                                                               | 5.3000B   | •    |
| FAN                                                                                             | 5.4000A   | •    |
| EXHAUST MANIFOLD                                                                                | 6.1000A   | •    |
| EXHAUST MUFFLER CONNECTIONS                                                                     | 6.2000A   | •    |
| BATTERY CHARGING GENERATOR                                                                      | 7.1000A   | •    |
| STARTING MOTOR                                                                                  | 7.3000A   | •    |

• STANDARD OPTION REFER TO OPTION PLATE.

## DETROIT DIESEL 53 MPC ENGINES

5043-7002

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                            | GROUP NO. | TYPE |
|---------------------------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK .....                                                                  | 1.1000    | 30   |
| AIR BOX DRAINS .....                                                                  | 1.1000A   | 63   |
| CYLINDER HEAD .....                                                                   | 1.2000    | 25   |
| ENGINE LIFTER BRACKET .....                                                           | 1.2000A   | •    |
| CRANKSHAFT .....                                                                      | 1.3000    | 70   |
| CRANKSHAFT FRONT COVER THRU 4D-200699 .....                                           | 1.3000A   | 119  |
| CRANKSHAFT PULLEY .....                                                               | 1.3000C   | •    |
| CRANKSHAFT PULLEY BELT .....                                                          | 1.3000D   | •    |
| FLYWHEEL .....                                                                        | 1.4000A   | •    |
| FLYWHEEL HOUSING .....                                                                | 1.5000A   | •    |
| CONNECTING ROD AND PISTON STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE .....      | 1.6000    | 98   |
| CONNECTING ROD AND PISTON .....                                                       | 1.6000    | •    |
| CAMSHAFT AND GEAR TRAIN THRU 4D-180938 .....                                          | 1.7000    | 138  |
| CAMSHAFT AND GEAR TRAIN EFF. WITH 4D-180939 .....                                     | 1.7000    | 269  |
| BALANCE WEIGHT COVER EFF. WITH 4D-200700 AND THRU 4D-211727 .....                     | 1.7000A   | 58   |
| BALANCE WEIGHT COVER EFF. WITH 4D-211728 .....                                        | 1.7000A   | 53   |
| VALVE OPERATING MECHANISM THRU 4D-180938 .....                                        | 1.8000    | 122  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-180939 .....                                   | 1.8000    | 167  |
| ROCKER COVER .....                                                                    | 1.8000A   | •    |
| FUEL INJECTOR .....                                                                   | 2.1000A   | •    |
| FUEL PUMP THRU 4D-173135 .....                                                        | 2.2000    | 127  |
| FUEL PUMP EFF. WITH 4D-173136 .....                                                   | 2.2000    | 180  |
| FUEL FILTER .....                                                                     | 2.3000A   | •    |
| FUEL MANIFOLD CONNECTIONS .....                                                       | 2.4000    | 48   |
| FUEL LINES .....                                                                      | 2.5000A   | •    |
| MECHANICAL GOVERNOR .....                                                             | 2.7000A   | •    |
| INJECTOR CONTROLS STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE .....              | 2.9000    | 284  |
| INJECTOR CONTROLS .....                                                               | 2.9000    | •    |
| AIR INLET HOUSING .....                                                               | 3.3000A   | •    |
| BLOWER THRU 4D-180938 .....                                                           | 3.4000    | 116  |
| BLOWER EFF. WITH 4D-180939 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE ..... | 3.4000    | 318  |
| BLOWER .....                                                                          | 3.4000    | •    |
| BLOWER DRIVE SHAFT .....                                                              | 3.4000A   | 17   |
| OIL PUMP THRU 4D-200699 .....                                                         | 4.1000A   | 52   |
| OIL PUMP EFF. WITH 4D-200700 .....                                                    | 4.1000A   | 170  |
| OIL DISTRIBUTION SYSTEM .....                                                         | 4.1000B   | •    |
| OIL PRESSURE REGULATOR THRU 4D-200699 .....                                           | 4.1000C   | 009  |
| OIL PRESSURE REGULATOR EFF. WITH 4D-200700 .....                                      | 4.1000C   | 29   |
| OIL FILTER .....                                                                      | 4.2000A   | •    |
| OIL COOLER .....                                                                      | 4.4000A   | •    |
| OIL FILTER LINES .....                                                                | 4.3000A   | •    |
| OIL FILLER .....                                                                      | 4.5000A   | •    |
| DIPSTICK .....                                                                        | 4.6000A   | •    |
| OIL PAN .....                                                                         | 4.7000A   | •    |
| VENTILATING SYSTEM .....                                                              | 4.8000A   | •    |
| FRESH WATER PUMP .....                                                                | 5.1000    | •    |
| WATER OUTLET ELBOW .....                                                              | 5.2000A   | •    |
| THERMOSTAT STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE .....                     | 5.2000B   | 275  |
| THERMOSTAT .....                                                                      | 5.2000B   | •    |
| WATER BY-PASS TUBE .....                                                              | 5.2000C   | •    |
| WATER CONNECTIONS STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE .....              | 5.3000B   | 117  |
| WATER CONNECTIONS .....                                                               | 5.3000B   | •    |
| FAN .....                                                                             | 5.4000A   | •    |
| EXHAUST MANIFOLD .....                                                                | 6.1000A   | •    |
| EXHAUST MUFFLER CONNECTIONS .....                                                     | 6.2000A   | •    |
| BATTERY CHARGING GENERATOR .....                                                      | 7.1000A   | •    |
| STARTING MOTOR .....                                                                  | 7.3000A   | •    |

• STANDARD OPTION REFER TO OPTION PLATE.

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                            | GROUP NO. | TYPE |
|---------------------------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK .....                                                                  | 1.1000    | 30   |
| AIR BOX DRAINS .....                                                                  | 1.1000A   | 63   |
| CYLINDER HEAD .....                                                                   | 1.2000    | 25   |
| ENGINE LIFTER BRACKET .....                                                           | 1.2000A   | •    |
| CRANKSHAFT .....                                                                      | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER THRU 4D-200699 .....                                           | 1.3000A   | 119  |
| CRANKSHAFT PULLEY .....                                                               | 1.3000C   | •    |
| CRANKSHAFT PULLEY BELT .....                                                          | 1.3000D   | •    |
| FLYWHEEL .....                                                                        | 1.4000A   | •    |
| FLYWHEEL HOUSING .....                                                                | 1.5000A   | •    |
| CONNECTING ROD AND PISTON STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE .....      | 1.6000    | 61   |
| CONNECTING ROD AND PISTON .....                                                       | 1.6000    | •    |
| CAMSHAFT AND GEAR TRAIN THRU 4D-180938 .....                                          | 1.7000    | 34   |
| CAMSHAFT AND GEAR TRAIN EFF. WITH 4D-180939 .....                                     | 1.7000    | 269  |
| BALANCE WEIGHT COVER EFF. WITH 4D-200700 AND THRU 4D-211727 .....                     | 1.7000A   | 58   |
| BALANCE WEIGHT COVER EFF. WITH 4D-211728 .....                                        | 1.7000A   | 53   |
| VALVE OPERATING MECHANISM THRU 4D-158185 .....                                        | 1.8000    | 32   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-158186 AND THRU 4D-162840 .....                | 1.8000    | 122  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-162841 AND THRU 4D-167110 .....                | 1.8000    | 32   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-167111 AND THRU 4D-180938 .....                | 1.8000    | 122  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-180939 .....                                   | 1.8000    | 167  |
| ROCKER COVER .....                                                                    | 1.8000A   | 41   |
| FUEL INJECTOR .....                                                                   | 2.1000A   | •    |
| FUEL PUMP THRU 4D-172166 .....                                                        | 2.2000    | 127  |
| FUEL PUMP EFF. WITH 4D-172167 .....                                                   | 2.2000    | 180  |
| FUEL FILTER .....                                                                     | 2.3000A   | •    |
| FUEL MANIFOLD CONNECTIONS .....                                                       | 2.4000    | 48   |
| FUEL LINES .....                                                                      | 2.5000A   | •    |
| HYDRAULIC GOVERNOR .....                                                              | 2.8000A   | •    |
| INJECTOR CONTROLS .....                                                               | 2.9000    | •    |
| AIR INLET HOUSING .....                                                               | 3.3000A   | •    |
| BLOWER THRU 4D-180938 .....                                                           | 3.4000    | 116  |
| BLOWER EFF. WITH 4D-180939 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE ..... | 3.4000    | 318  |
| BLOWER .....                                                                          | 3.4000    | •    |
| BLOWER DRIVE SHAFT .....                                                              | 3.4000A   | 17   |
| OIL PUMP THRU 4D-200699 .....                                                         | 4.1000A   | 52   |
| OIL PUMP EFF. WITH 4D-200700 .....                                                    | 4.1000A   | 170  |
| OIL DISTRIBUTION SYSTEM .....                                                         | 4.1000B   | •    |
| OIL PRESSURE REGULATOR THRU 4D-200699 .....                                           | 4.1000C   | 9    |
| OIL PRESSURE REGULATOR EFF. WITH 4D-200700 .....                                      | 4.1000C   | 29   |
| OIL FILTER .....                                                                      | 4.2000A   | •    |
| OIL COOLER .....                                                                      | 4.4000A   | •    |
| OIL FILLER .....                                                                      | 4.5000A   | •    |
| DIPSTICK .....                                                                        | 4.6000A   | •    |
| OIL PAN .....                                                                         | 4.7000A   | •    |
| VENTILATING SYSTEM .....                                                              | 4.8000A   | •    |
| FRESH WATER PUMP .....                                                                | 5.1000    | •    |
| WATER OUTLET ELBOW .....                                                              | 5.2000A   | •    |
| THERMOSTAT STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE .....                     | 5.2000B   | 72   |
| THERMOSTAT .....                                                                      | 5.2000B   | •    |
| WATER BY-PASS TUBE .....                                                              | 5.2000C   | •    |
| WATER CONNECTIONS .....                                                               | 5.3000B   | •    |
| FAN .....                                                                             | 5.4000A   | •    |
| EXHAUST MANIFOLD .....                                                                | 6.1000A   | •    |
| EXHAUST MUFFLER CONNECTIONS .....                                                     | 6.2000A   | •    |
| STARTING MOTOR .....                                                                  | 7.3000A   | •    |

• STANDARD OPTION REFER TO OPTION PLATE.

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                               | GROUP NO. | TYPE |
|------------------------------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK                                                                           | 1.1000    | 30   |
| AIR BOX DRAINS                                                                           | 1.1000A   | 63   |
| CYLINDER HEAD                                                                            | 1.2000    | 25   |
| ENGINE LIFTER BRACKET THRU 4D-113987                                                     | 1.2000A   | 30   |
| ENGINE LIFTER BRACKET EFF. WITH 4D-113988                                                | 1.2000A   | 175  |
| CRANKSHAFT                                                                               | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER THRU 4D-124752                                                    | 1.3000A   | 48   |
| CRANKSHAFT FRONT COVER EFF. WITH 4D-124753                                               | 1.3000A   | 119  |
| FLYWHEEL STD. EQUIP. PRIOR TO 4D-85205                                                   | 1.4000A   | •    |
| FLYWHEEL HOUSING                                                                         | 1.5000A   | •    |
| CONNECTING ROD AND PISTON STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE               | 1.6000    | 61   |
| CONNECTING ROD AND PISTON                                                                | 1.6000    | •    |
| CAMSHAFT AND GEAR TRAIN THRU 4D-180938                                                   | 1.7000    | 85   |
| CAMSHAFT AND GEAR TRAIN EFF. WITH 4D-180939                                              | 1.7000    | 269  |
| VALVE OPERATING MECHANISM THRU 4D-158185                                                 | 1.8000    | 32   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-158186 AND THRU 4D-162840                         | 1.8000    | 122  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-162841 AND THRU 4D-167110                         | 1.8000    | 32   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-167111 AND THRU 4D-180938                         | 1.8000    | 122  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-180939                                            | 1.8000    | 167  |
| ROCKER COVER                                                                             | 1.8000A   | 41   |
| FUEL INJECTOR                                                                            | 2.1000A   | •    |
| FUEL PUMP THRU 4D-172166                                                                 | 2.2000    | 127  |
| FUEL PUMP EFF. WITH 4D-172167                                                            | 2.2000    | 180  |
| FUEL FILTER THRU 4D-175673                                                               | 2.3000A   | 157  |
| FUEL FILTER EFF. WITH 4D-175674                                                          | 2.3000A   | 720  |
| FUEL MANIFOLD CONNECTIONS                                                                | 2.4000    | 48   |
| FUEL LINES                                                                               | 2.5000A   | 361  |
| MECHANICAL GOVERNOR                                                                      | 2.7000A   | •    |
| INJECTOR CONTROLS THRU 4D-156694                                                         | 2.9000    | 120  |
| INJECTOR CONTROLS EFF. WITH 4D-156695                                                    | 2.9000    | 284  |
| AIR INLET HOUSING THRU 4D-158258                                                         | 3.3000A   | 141  |
| AIR INLET HOUSING EFF. WITH 4D-158259 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPT. PLATE | 3.3000A   | 596  |
| AIR INLET HOUSING                                                                        | 3.3000A   | •    |
| BLOWER THRU 4D-180938                                                                    | 3.4000    | 116  |
| BLOWER EFF. WITH 4D-180939                                                               | 3.4000    | 318  |
| BLOWER DRIVE SHAFT                                                                       | 3.4000A   | 17   |
| OIL PUMP                                                                                 | 4.1000A   | 52   |
| OIL DISTRIBUTION SYSTEM                                                                  | 4.1000B   | 196  |
| OIL PRESSURE REGULATOR                                                                   | 4.1000C   | 9    |
| OIL FILTER THRU 4D-180938                                                                | 4.2000A   | 227  |
| OIL FILTER EFF. WITH 4D-180939                                                           | 4.2000A   | 413  |
| OIL COOLER                                                                               | 4.4000A   | 226  |
| OIL FILLER                                                                               | 4.5000A   | 18   |
| DIPSTICK                                                                                 | 4.6000A   | 261  |
| OIL PAN                                                                                  | 4.7000A   | 591  |
| VENTILATING SYSTEM STD. EQUIP. PRIOR TO 4D-95005                                         | 4.8000A   | •    |
| FRESH WATER PUMP                                                                         | 5.1000    | 145  |
| WATER OUTLET ELBOW                                                                       | 5.2000A   | 67   |
| THERMOSTAT                                                                               | 5.2000B   | 72   |
| WATER BY-PASS TUBE                                                                       | 5.2000C   | 318  |
| WATER CONNECTIONS                                                                        | 5.3000B   | 117  |
| FAN                                                                                      | 5.4000A   | NONE |
| EXHAUST MANIFOLD                                                                         | 6.1000A   | 218  |
| STARTING MOTOR                                                                           | 7.3000A   | •    |

• STANDARD OPTION REFER TO OPTION PLATE.

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                          | GROUP NO. | TYPE |
|-------------------------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK                                                                      | 1.1000    | 30   |
| AIR BOX DRAINS                                                                      | 1.1000A   | 63   |
| CYLINDER HEAD                                                                       | 1.2000    | 25   |
| ENGINE LIFTER BRACKET STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE              | 1.2000A   | 116  |
| ENGINE LIFTER BRACKET                                                               | 1.2000A   | •    |
| CRANKSHAFT                                                                          | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER THRU 4D-200699                                               | 1.3000A   | 119  |
| CRANKSHAFT PULLEY STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                  | 1.3000C   | 111  |
| CRANKSHAFT PULLEY                                                                   | 1.3000C   | •    |
| CRANKSHAFT PULLEY BELT STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE             | 1.3000D   | 91   |
| CRANKSHAFT PULLEY BELT                                                              | 1.3000D   | •    |
| FLYWHEEL STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                           | 1.4000A   | 744  |
| FLYWHEEL                                                                            | 1.4000A   | •    |
| FLYWHEEL HOUSING STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                   | 1.5000A   | 454  |
| FLYWHEEL HOUSING                                                                    | 1.5000A   | •    |
| CONNECTING ROD AND PISTON STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE          | 1.6000    | 61   |
| CONNECTING ROD AND PISTON                                                           | 1.6000    | •    |
| CAMSHAFT AND GEAR TRAIN THRU 4D-180938                                              | 1.7000    | 138  |
| CAMSHAFT AND GEAR TRAIN EFF. WITH 4D-180939                                         | 1.7000    | 269  |
| BALANCE WEIGHT COVER EFF. WITH 4D-200700 AND THRU 4D-211727                         | 1.7000A   | 58   |
| BALANCE WEIGHT COVER EFF. WITH 4D-211728                                            | 1.7000A   | 53   |
| VALVE OPERATING MECHANISM THRU 4D-180938                                            | 1.8000    | 122  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-180939                                       | 1.8000    | 176  |
| ROCKER COVER STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                       | 1.8000A   | 40   |
| ROCKER COVER                                                                        | 1.8000A   | •    |
| FUEL INJECTOR                                                                       | 2.1000A   | •    |
| FUEL PUMP THRU 4D-172166                                                            | 2.2000    | 152  |
| FUEL PUMP EFF. WITH 4D-172167                                                       | 2.2000    | 180  |
| FUEL PUMP AUXILIARY                                                                 | 2.2000    | •    |
| FUEL MANIFOLD CONNECTIONS                                                           | 2.4000    | 48   |
| HYDRAULIC GOVERNOR                                                                  | 2.8000A   | •    |
| INJECTOR CONTROLS STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                  | 2.9000    | 224  |
| INJECTOR CONTROLS                                                                   | 2.9000    | •    |
| THROTTLE CONTROLS STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                  | 2.9000A   | 856  |
| THROTTLE CONTROLS                                                                   | 2.9000A   | •    |
| AIR CLEANER STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                        | 3.1000A   | 355  |
| AIR CLEANER                                                                         | 3.1000A   | •    |
| AIR INLET HOUSING STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                  | 3.3000A   | 514  |
| AIR INLET HOUSING                                                                   | 3.3000A   | •    |
| BLOWER THRU 4D-180938                                                               | 3.4000    | 116  |
| BLOWER EFF. WITH 4D-180939 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE     | 3.4000    | 318  |
| BLOWER                                                                              | 3.4000    | •    |
| BLOWER DRIVE SHAFT                                                                  | 3.4000A   | 17   |
| OIL PUMP THRU 4D-200699                                                             | 4.1000A   | 52   |
| OIL PUMP EFF. WITH 4D-200700                                                        | 4.1000A   | 170  |
| OIL DISTRIBUTION SYSTEM STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE            | 4.1000B   | 250  |
| OIL DISTRIBUTION SYSTEM                                                             | 4.1000B   | •    |
| OIL PRESSURE REGULATOR THRU 4D-200699                                               | 4.1000C   | 009  |
| OIL PRESSURE REGULATOR EFF. WITH 4D-200700                                          | 4.1000C   | 29   |
| OIL FILTER THRU 4D-180939                                                           | 4.2000A   | 313  |
| OIL FILTER EFF. WITH 4D-180940 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE | 4.2000A   | 425  |
| OIL FILTER                                                                          | 4.2000A   | •    |
| OIL COOLER STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                         | 4.4000A   | 226  |
| OIL COOLER                                                                          | 4.4000A   | •    |
| OIL FILLER                                                                          | 4.5000A   | •    |
| DIPSTICK STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                           | 4.6000A   | 777  |
| DIPSTICK                                                                            | 4.6000A   | •    |
| OIL PAN STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                            | 4.7000A   | 626  |
| OIL PAN                                                                             | 4.7000A   | •    |
| VENTILATING SYSTEM                                                                  | 4.8000A   | •    |
| FRESH WATER PUMP                                                                    | 5.1000    | 151  |
| WATER OUTLET MANIFOLD STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE              | 5.2000A   | 67   |
| WATER OUTLET MANIFOLD                                                               | 5.2000A   | •    |
| THERMOSTAT STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                         | 5.2000B   | 72   |
| THERMOSTAT                                                                          | 5.2000B   | •    |
| WATER BY-PASS TUBE STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                 | 5.2000C   | 382  |
| WATER BY-PASS TUBE                                                                  | 5.2000C   | •    |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                      | GROUP NO. | TYPE |
|---------------------------------------------------------------------------------|-----------|------|
| WATER CONNECTIONS STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE .....        | 5.3000B   | 117  |
| WATER CONNECTIONS .....                                                         | 5.3000B   | •    |
| FAN .....                                                                       | 5.4000A   | •    |
| EXHAUST MANIFOLD STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE .....         | 6.1000A   | 224  |
| EXHAUST MANIFOLD .....                                                          | 6.1000A   | •    |
| STARTING MOTOR STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE .....           | 7.3000A   | 299  |
| STARTING MOTOR .....                                                            | 7.3000A   | •    |
| SHUT-OFF OR ALARM SYSTEM STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE ..... | 7.4000C   | 918  |
| SHUT-OFF OR ALARM SYSTEM .....                                                  | 7.4000C   | •    |
| • STANDARD OPTION REFER TO OPTION PLATE.                                        |           |      |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                 | GROUP NO. | TYPE |
|----------------------------|-----------|------|
| CYLINDER BLOCK             | 1.1000    | 145  |
| AIR BOX DRAINS             | 1.1000A   | 63   |
| CYLINDER HEAD              | 1.2000    | 25   |
| ENGINE LIFTER BRACKET      | 1.2000A   | 46   |
| CRANKSHAFT                 | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER     | 1.3000A   | 48   |
| CRANKSHAFT PULLEY          | 1.3000C   | 111  |
| CRANKSHAFT PULLEY BELT     | 1.3000D   | 91   |
| FLYWHEEL                   | 1.4000A   | 862  |
| FLYWHEEL HOUSING           | 1.5000A   | 534  |
| CONNECTING ROD AND PISTON  | 1.6000    | 98   |
| CAMSHAFT AND GEAR TRAIN    | 1.7000    | 139  |
| VALVE OPERATING MECHANISM  | 1.8000    | 122  |
| ROCKER COVER               | 1.8000A   | 77   |
| FUEL INJECTOR              | 2.1000A   | 76   |
| FUEL PUMP                  | 2.2000    | 127  |
| FUEL FILTER                | 2.3000A   | 188  |
| FUEL MANIFOLD CONNECTIONS  | 2.4000    | 48   |
| FUEL LINES                 | 2.5000A   | 411  |
| MECHANICAL GOVERNOR        | 2.7000A   | 596  |
| INJECTOR CONTROLS          | 2.9000    | 120  |
| AIR INLET HOUSING          | 3.3000A   | 596  |
| BLOWER                     | 3.4000    | 116  |
| BLOWER DRIVE SHAFT         | 3.4000A   | 17   |
| OIL PUMP                   | 4.1000A   | 52   |
| OIL DISTRIBUTION SYSTEM    | 4.1000B   | 196  |
| OIL PRESSURE REGULATOR     | 4.1000C   | 9    |
| OIL FILTER                 | 4.2000A   | 224  |
| OIL COOLER                 | 4.4000A   | 239  |
| OIL FILLER                 | 4.5000A   | 18   |
| DIPSTICK                   | 4.6000A   | 261  |
| OIL PAN                    | 4.7000A   | 591  |
| VENTILATING SYSTEM         | 4.8000A   | 716  |
| FRESH WATER PUMP           | 5.1000    | 146  |
| WATER OUTLET MANIFOLD      | 5.2000A   | 102  |
| THERMOSTAT                 | 5.2000B   | 72   |
| WATER BY-PASS TUBE         | 5.2000C   | 318  |
| WATER CONNECTIONS          | 5.3000B   | 117  |
| FAN                        | 5.4000A   | 1041 |
| EXHAUST MANIFOLD           | 6.1000A   | 218  |
| BATTERY CHARGING GENERATOR | 7.1000A   | 1947 |
| STARTING MOTOR             | 7.3000A   | 180  |
| TACHOMETER DRIVE           | 7.4000B   | 226  |



## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                            | GROUP NO. | TYPE |
|---------------------------------------|-----------|------|
| CYLINDER BLOCK                        | 1.1000    | 163  |
| AIR BOX DRAINS                        | 1.1000A   | 63   |
| CYLINDER HEAD                         | 1.2000    | 25   |
| ENGINE LIFTER BRACKET                 | 1.2000A   | 175  |
| CRANKSHAFT                            | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER                | 1.3000A   | 48   |
| CRANKSHAFT PULLEY                     | 1.3000C   | 111  |
| FLYWHEEL                              | 1.4000A   | 296  |
| FLYWHEEL HOUSING                      | 1.5000A   | 178  |
| CONNECTING ROD AND PISTON             | 1.6000    | 98   |
| CAMSHAFT AND GEAR TRAIN               | 1.7000    | 138  |
| VALVE OPERATING MECHANISM             | 1.8000    | 122  |
| ROCKER COVER                          | 1.8000A   | 41   |
| FUEL INJECTOR                         | 2.1000A   | 76   |
| FUEL PUMP EFF. THRU 4D-172166         | 2.2000    | 127  |
| FUEL PUMP EFF. WITH 4D-172167         | 2.2000    | 180  |
| FUEL FILTER                           | 2.3000A   | 687  |
| FUEL MANIFOLD CONNECTIONS             | 2.4000    | 48   |
| FUEL LINES                            | 2.5000A   | 1518 |
| MECHANICAL GOVERNOR                   | 2.7000A   | 596  |
| INJECTOR CONTROLS THRU 4D-156694      | 2.9000    | 120  |
| INJECTOR CONTROLS EFF. WITH 4D-156695 | 2.9000    | 284  |
| THROTTLE CONTROLS                     | 2.9000A   | 504  |
| AIR INLET HOUSING                     | 3.3000A   | 141  |
| BLOWER                                | 3.4000    | 235  |
| BLOWER DRIVE SHAFT                    | 3.4000A   | 17   |
| OIL PUMP                              | 4.1000A   | 52   |
| OIL DISTRIBUTION SYSTEM               | 4.1000B   | 196  |
| OIL PRESSURE REGULATOR                | 4.1000C   | 9    |
| OIL FILTER                            | 4.2000A   | 350  |
| OIL COOLER                            | 4.4000A   | 849  |
| OIL FILLER                            | 4.5000A   | 18   |
| DIPSTICK                              | 4.6000A   | 261  |
| OIL PAN                               | 4.7000A   | 591  |
| VENTILATING SYSTEM                    | 4.8000A   | 195  |
| FRESH WATER PUMP                      | 5.1000    | 145  |
| WATER OUTLET MANIFOLD                 | 5.2000A   | 67   |
| THERMOSTAT                            | 5.2000B   | 72   |
| WATER BY-PASS TUBE                    | 5.2000C   | 318  |
| WATER CONNECTIONS                     | 5.3000B   | 117  |
| EXHAUST MANIFOLD                      | 6.1000A   | 218  |
| EXHAUST MUFFLER CONNECTIONS           | 6.2000A   | 243  |
| BATTERY CHARGING GENERATOR            | 7.1000A   | 1948 |
| STARTING MOTOR                        | 7.3000A   | 174  |
| INSTRUMENTS                           | 7.4000A   | 372  |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                               | GROUP NO. | TYPE |
|--------------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK                                                           | 1.1000    | 30   |
| AIR BOX DRAINS                                                           | 1.1000A   | 78   |
| CYLINDER HEAD                                                            | 1.2000    | 25   |
| ENGINE LIFTER BRACKET STD. EQUIP. PRIOR TO 4D-203934                     | 1.2000A   | 175  |
| CRANKSHAFT                                                               | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER THRU 4D-132578                                    | 1.3000A   | 59   |
| CRANKSHAFT FRONT COVER EFF. WITH 4D-132579 AND THRU 4D-200699            | 1.3000A   | 125  |
| CRANKSHAFT PULLEY                                                        | 1.3000C   | 131  |
| CRANKSHAFT PULLEY BELT                                                   | 1.3000D   | 229  |
| FLYWHEEL                                                                 | 1.4000A   | 334  |
| FLYWHEEL HOUSING THRU 4D-201961                                          | 1.5000A   | 491  |
| FLYWHEEL HOUSING EFF. WITH 4D-201962, STD. EQUIP. THRU 4D-204464         | 1.5000A   | 647  |
| CONNECTING ROD AND PISTON STD. EQUIP. PRIOR TO 4D-199015                 | 1.6000    | 61   |
| CAMSHAFT AND GEAR TRAIN THRU 4D-180938                                   | 1.7000    | 34   |
| CAMSHAFT AND GEAR TRAIN EFF. WITH 4D-180939                              | 1.7000    | 272  |
| BALANCE WEIGHT COVER EFF. WITH 4D-200700 AND THRU 4D-211727              | 1.7000A   | 60   |
| BALANCE WEIGHT COVER EFF. WITH 4D-211728                                 | 1.7000A   | 53   |
| VALVE OPERATING MECHANISM THRU 4D-180938                                 | 1.8000    | 32   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-180939                            | 1.8000    | 163  |
| ROCKER COVER                                                             | 1.8000A   | 167  |
| FUEL INJECTOR                                                            | 2.1000A   | 76   |
| FUEL PUMP THRU 4D-172166                                                 | 2.2000    | 152  |
| FUEL PUMP EFF. WITH 4D-172167                                            | 2.2000    | 180  |
| FUEL FILTER                                                              | 2.3000A   | 403  |
| FUEL MANIFOLD CONNECTIONS                                                | 2.4000    | 48   |
| FUEL LINES                                                               | 2.5000A   | 853  |
| MECHANICAL GOVERNOR                                                      | 2.7000A   | 1708 |
| INJECTOR CONTROLS THRU 4D-156694                                         | 2.9000    | 120  |
| INJECTOR CONTROLS EFF. WITH 4D-156695; STD. EQUIP. PRIOR TO 4D-204678    | 2.9000    | 284  |
| THROTTLE CONTROLS STD. EQUIP. PRIOR TO 4D-204614                         | 2.9000A   | 595  |
| AIR CLEANER                                                              | 3.1000A   | 340  |
| AIR INLET HOUSING                                                        | 3.3000A   | 596  |
| BLOWER THRU 4D-180938                                                    | 3.4000    | 116  |
| BLOWER EFF. WITH 4D-180939                                               | 3.4000    | 318  |
| BLOWER DRIVE SHAFT                                                       | 3.4000A   | 17   |
| OIL PUMP THRU 4D-200699                                                  | 4.1000A   | 52   |
| OIL PUMP EFF. WITH 4D-200700                                             | 4.1000A   | 170  |
| OIL DISTRIBUTION SYSTEM STD. EQUIP. PRIOR TO 4D-106733                   | 4.1000B   | 236  |
| OIL PRESSURE REGULATOR THRU 4D-200699                                    | 4.1000C   | 9    |
| OIL PRESSURE REGULATOR EFF. WITH 4D-200700                               | 4.1000C   | 29   |
| OIL FILTER                                                               | 4.2000A   | 130  |
| OIL FILTER LINES                                                         | 4.3000A   | 131  |
| OIL COOLER                                                               | 4.4000A   | 806  |
| OIL FILLER                                                               | 4.5000A   | 95   |
| DIPSTICK                                                                 | 4.6000A   | 756  |
| OIL PAN STD. EQUIP. PRIOR TO 4D-106733                                   | 4.7000A   | 492  |
| VENTILATING SYSTEM (ON ROCKER COVER)                                     | 4.8000A   | 491  |
| FRESH WATER PUMP THRU 4D-88302                                           | 5.1000    | 155  |
| FRESH WATER PUMP EFF. WITH 4D-88303 AND STD. EQUIP. PRIOR TO 4D-118187   | 5.1000    | 180  |
| WATER OUTLET MANIFOLD THRU 4D-25723                                      | 5.2000A   | 99   |
| WATER OUTLET MANIFOLD EFF. WITH 4D-25724; STD. EQUIP. PRIOR TO 4D-204634 | 5.2000A   | 93   |
| THERMOSTAT STD. EQUIP. PRIOR TO 4D-204603                                | 5.2000B   | 72   |
| WATER BY-PASS TUBE STD. EQUIP. PRIOR TO 4D-204634                        | 5.2000C   | 346  |
| WATER CONNECTIONS STD. EQUIP. PRIOR TO 4D-204582                         | 5.3000B   | 278  |
| FAN                                                                      | 5.4000A   | 280  |
| EXHAUST MANIFOLD STD. EQUIP. PRIOR TO 4D-204634                          | 6.1000A   | 218  |
| EXHAUST MUFFLER CONNECTIONS STD. EQUIP. PRIOR TO 4D-204614               | 6.2000A   | 243  |
| BATTERY CHARGING GENERATOR                                               | 7.1000A   | 1734 |
| STARTING MOTOR                                                           | 7.3000A   | 297  |
| ENGINE MOUNTS                                                            | 11.1000A  | 430  |
| COLD WEATHER STARTING AID STD. EQUIP. PRIOR TO 4D-110070                 | 12.6000C  | 56   |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                               | GROUP NO. | TYPE |
|--------------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK                                                           | 1.1000    | 30   |
| AIR BOX DRAINS THRU 4D-11690                                             | 1.1000A   | 32   |
| AIR BOX DRAINS EFF. WITH 4D-11691                                        | 1.1000A   | 63   |
| CYLINDER HEAD                                                            | 1.2000    | 24   |
| ENGINE LIFTER BRACKET                                                    | 1.2000A   | 30   |
| CRANKSHAFT                                                               | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER STD. EQUIP. PRIOR TO 4D-106207 AND THRU 4D-115677 | 1.3000A   | 48   |
| CRANKSHAFT FRONT COVER EFF. WITH 4D-115678                               | 1.3000A   | 119  |
| CRANKSHAFT PULLEY STD. EQUIP. PRIOR TO 4D-184                            | 1.3000C   | 111  |
| CRANKSHAFT PULLEY BELT                                                   | 1.3000D   | 176  |
| FLYWHEEL                                                                 | 1.4000A   | 296  |
| FLYWHEEL HOUSING                                                         | 1.5000A   | 178  |
| CONNECTING ROD AND PISTON THRU 4D-14985                                  | 1.6000    | 27   |
| CONNECTING ROD AND PISTON EFF. WITH 4D-14986                             | 1.6000    | 61   |
| CAMSHAFT AND GEAR TRAIN THRU 4D-180938                                   | 1.7000    | 85   |
| CAMSHAFT AND GEAR TRAIN EFF. WITH 4D-180939                              | 1.7000    | 269  |
| VALVE OPERATING MECHANISM THRU 4D-158185                                 | 1.8000    | 31   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-158186 AND THRU 4D-162840         | 1.8000    | 187  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-162841 AND THRU 4D-167110         | 1.8000    | 31   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-167111 AND THRU 4D-180938         | 1.8000    | 187  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-180939                            | 1.8000    | 171  |
| ROCKER COVER                                                             | 1.8000A   | 41   |
| FUEL INJECTOR EFF. WITH 4D-1610                                          | 2.1000A   | 40   |
| FUEL INJECTOR EFF. WITH 4D-1610                                          | 2.1000A   | 52   |
| FUEL PUMP THRU 4D-78175                                                  | 2.2000    | 33   |
| FUEL PUMP EFF. WITH 4D-78176 AND THRU 4D-172166                          | 2.2000    | 127  |
| FUEL PUMP EFF. WITH 4D-172167                                            | 2.2000    | 180  |
| FUEL FILTER                                                              | 2.3000A   | 157  |
| FUEL MANIFOLD CONNECTIONS                                                | 2.4000    | 48   |
| FUEL LINES                                                               | 2.5000A   | 361  |
| MECHANICAL GOVERNOR                                                      | 2.7000A   | 596  |
| INJECTOR CONTROLS THRU 4D-156694                                         | 2.9000    | 120  |
| INJECTOR CONTROLS EFF. WITH 4D-156695                                    | 2.9000    | 284  |
| THROTTLE CONTROLS                                                        | 2.9000A   | 504  |
| AIR INLET HOUSING                                                        | 3.3000A   | 596  |
| BLOWER THRU 4D-36456                                                     | 3.4000    | 63   |
| BLOWER EFF. WITH 4D-36457                                                | 3.4000    | 116  |
| BLOWER DRIVE SHAFT                                                       | 3.4000A   | 17   |
| OIL PUMP                                                                 | 4.1000A   | 52   |
| OIL DISTRIBUTION SYSTEM                                                  | 4.1000B   | 196  |
| OIL PRESSURE REGULATOR                                                   | 4.1000C   | 9    |
| OIL FILTER                                                               | 4.2000A   | 227  |
| OIL COOLER                                                               | 4.4000A   | 226  |
| OIL FILLER                                                               | 4.5000A   | 18   |
| DIPSTICK                                                                 | 4.6000A   | 261  |
| OIL PAN                                                                  | 4.7000A   | 591  |
| VENTILATING SYSTEM                                                       | 4.8000A   | 195  |
| FRESH WATER PUMP THRU 4D-66634                                           | 5.1000    | 38   |
| FRESH WATER PUMP EFF. WITH 4D-66635                                      | 5.1000    | 145  |
| WATER OUTLET MANIFOLD                                                    | 5.2000A   | 67   |
| THERMOSTAT                                                               | 5.2000B   | 72   |
| WATER BY-PASS TUBE THRU 4D-66634                                         | 5.2000C   | 130  |
| WATER BY-PASS TUBE EFF. WITH 4D-66635                                    | 5.2000C   | 318  |
| WATER CONNECTIONS                                                        | 5.3000B   | 117  |
| FAN                                                                      | 5.4000A   | 276  |
| EXHAUST MANIFOLD                                                         | 6.1000A   | 218  |
| EXHAUST MUFFLER CONNECTIONS                                              | 6.2000A   | 243  |
| BATTERY CHARGING GENERATOR                                               | 7.1000A   | 2061 |
| STARTING MOTOR                                                           | 7.3000A   | 174  |
| INSTRUMENTS                                                              | 7.4000A   | 372  |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                       | GROUP NO. | TYPE |
|------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK                                                   | 1.1000    | 30   |
| AIR BOX DRAINS                                                   | 1.1000A   | 63   |
| CYLINDER HEAD                                                    | 1.2000    | 24   |
| ENGINE LIFTER BRACKET                                            | 1.2000A   | 30   |
| CRANKSHAFT                                                       | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER THRU 4D-115677                            | 1.3000A   | 48   |
| CRANKSHAFT FRONT COVER EFF. WITH 4D-115678                       | 1.3000A   | 119  |
| CRANKSHAFT PULLEY                                                | 1.3000C   | 111  |
| CRANKSHAFT PULLEY BELT                                           | 1.3000D   | 91   |
| FLYWHEEL                                                         | 1.4000A   | 331  |
| FLYWHEEL HOUSING                                                 | 1.5000A   | 379  |
| CONNECTING ROD AND PISTON                                        | 1.6000    | 61   |
| CAMSHAFT AND GEAR TRAIN THRU 4D-180938                           | 1.7000    | 85   |
| CAMSHAFT AND GEAR TRAIN EFF. WITH 4D-180939                      | 1.7000    | 269  |
| VALVE OPERATING MECHANISM THRU 4D-158185                         | 1.8000    | 31   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-158186 AND THRU 4D-162840 | 1.8000    | 187  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-162841 AND THRU 4D-167110 | 1.8000    | 31   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-167111 AND THRU 4D-180938 | 1.8000    | 187  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-180939                    | 1.8000    | 171  |
| ROCKER COVER                                                     | 1.8000A   | 41   |
| FUEL INJECTOR                                                    | 2.1000A   | 76   |
| FUEL PUMP THRU 4D-172166                                         | 2.2000    | 127  |
| FUEL PUMP EFF. ITH 4D-172167                                     | 2.2000    | 180  |
| FUEL FILTER                                                      | 2.3000A   | 157  |
| FUEL MANIFOLD CONNECTIONS                                        | 2.4000    | 48   |
| FUEL LINES                                                       | 2.5000A   | 361  |
| HYDRAULIC GOVERNOR                                               | 2.8000A   | 998  |
| AIR INLET HOUSING                                                | 3.3000A   | 141  |
| BLOWER THRU 4D-180938                                            | 3.4000    | 116  |
| BLOWER EFF. WITH 4D-180939                                       | 3.4000    | 318  |
| BLOWER DRIVE SHAFT                                               | 3.4000A   | 17   |
| OIL PUMP                                                         | 4.1000A   | 52   |
| OIL DISTRIBUTION SYSTEM                                          | 4.1000B   | 196  |
| OIL PRESSURE REGULATOR                                           | 4.1000C   | 9    |
| OIL FILTER                                                       | 4.2000A   | 227  |
| OIL COOLER                                                       | 4.4000A   | 226  |
| OIL FILLER                                                       | 4.5000A   | 18   |
| DIPSTICK                                                         | 4.6000A   | 261  |
| OIL PAN                                                          | 4.7000A   | 591  |
| VENTILATING SYSTEM                                               | 4.8000A   | 195  |
| FRESH WATER PUMP                                                 | 5.1000    | 152  |
| WATER OUTLET MANIFOLD                                            | 5.2000A   | 67   |
| THERMOSTAT                                                       | 5.2000B   | 72   |
| WATER BY-PASS TUBE                                               | 5.2000C   | 325  |
| WATER CONNECTIONS                                                | 5.3000B   | 117  |
| FAN                                                              | 5.4000A   | 278  |
| EXHAUST MANIFOLD                                                 | 6.1000A   | 218  |
| EXHAUST MUFFLER CONNECTIONS                                      | 6.2000A   | 298  |
| STARTING MOTOR                                                   | 7.3000A   | 174  |
| INSTRUMENTS                                                      | 7.4000A   | 372  |

DETROIT DIESEL 53 MPC ENGINES  
STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                                 | GROUP NO. | TYPE |
|--------------------------------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK                                                                             | 1.1000    | 30   |
| AIR BOX DRAINS                                                                             | 1.1000A   | 63   |
| CYLINDER HEAD                                                                              | 1.2000    | 24   |
| ENGINE LIFTER BRACKET                                                                      | 1.2000A   | 30   |
| CRANKSHAFT                                                                                 | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER THRU 4D-124752                                                      | 1.3000A   | 48   |
| CRANKSHAFT FRONT COVER EFF. WITH 4D-124753                                                 | 1.3000A   | 119  |
| FLYWHEEL STD. EQUIP. PRIOR TO 4D-85205                                                     | 1.4000A   | 296  |
| FLYWHEEL HOUSING                                                                           | 1.5000A   | 178  |
| CONNECTING ROD AND PISTON                                                                  | 1.6000    | 61   |
| CAMSHAFT AND GEAR TRAIN THRU 4D-180938                                                     | 1.7000    | 85   |
| CAMSHAFT AND GEAR TRAIN EFF. WITH 4D-180939                                                | 1.7000    | 269  |
| VALVE OPERATING MECHANISM THRU 4D-158185                                                   | 1.8000    | 31   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-158186 AND THRU 4D-162840                           | 1.8000    | 187  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-162841 AND THRU 4D-167110                           | 1.8000    | 31   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-167111 AND THRU 4D-180938                           | 1.8000    | 187  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-180939                                              | 1.8000    | 171  |
| ROCKER COVER                                                                               | 1.8000A   | 41   |
| FUEL INJECTOR                                                                              | 2.1000A   | 76   |
| FUEL PUMP THRU 4D-172166                                                                   | 2.2000    | 127  |
| FUEL PUMP EFF. WITH 4D-172167                                                              | 2.2000    | 180  |
| FUEL FILTER                                                                                | 2.3000A   | 157  |
| FUEL MANIFOLD CONNECTIONS                                                                  | 2.4000    | 48   |
| FUEL LINES                                                                                 | 2.5000A   | 361  |
| MECHANICAL GOVERNOR                                                                        | 2.7000A   | 596  |
| INJECTOR CONTROLS THRU 4D-156694                                                           | 2.9000    | 120  |
| INJECTOR CONTROLS EFF. WITH 4D-156695                                                      | 2.9000    | 284  |
| AIR INLET HOUSING THRU 4D-158258                                                           | 3.3000A   | 141  |
| AIR INLET HOUSING EFF. WITH 4D-158259 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE | 3.3000A   | 596  |
| BLOWER THRU 4D-180938                                                                      | 3.4000    | 116  |
| BLOWER EFF. WITH 4D-180939                                                                 | 3.4000    | 318  |
| BLOWER DRIVE SHAFT                                                                         | 3.4000A   | 17   |
| OIL PUMP                                                                                   | 4.1000A   | 52   |
| OIL DISTRIBUTION SYSTEM                                                                    | 4.1000B   | 196  |
| OIL PRESSURE REGULATOR                                                                     | 4.1000C   | 9    |
| OIL FILTER                                                                                 | 4.2000A   | 227  |
| OIL COOLER                                                                                 | 4.4000A   | 226  |
| OIL FILLER                                                                                 | 4.5000A   | 18   |
| DIPSTICK                                                                                   | 4.6000A   | 261  |
| OIL PAN                                                                                    | 4.7000A   | 591  |
| VENTILATING SYSTEM STD. EQUIP. PRIOR TO 4D-95001                                           | 4.8000A   | 195  |
| FRESH WATER PUMP                                                                           | 5.1000    | 145  |
| WATER OUTLET ELBOW                                                                         | 5.2000A   | 67   |
| THERMOSTAT                                                                                 | 5.2000B   | 72   |
| WATER BY-PASS TUBE                                                                         | 5.2000C   | 318  |
| WATER CONNECTIONS                                                                          | 5.3000B   | 117  |
| EXHAUST MANIFOLD                                                                           | 6.1000A   | 218  |
| STARTING MOTOR                                                                             | 7.3000A   | 174  |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                       | GROUP NO. | TYPE |
|------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK                                                   | 1.1000    | 30   |
| AIR BOX DRAINS                                                   | 1.1000A   | 63   |
| CYLINDER HEAD                                                    | 1.2000    | 123  |
| ENGINE LIFTER BRACKET                                            | 1.2000A   | 148  |
| CRANKSHAFT                                                       | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER THRU 4D-115677                            | 1.3000A   | 48   |
| CRANKSHAFT FRONT COVER EFF. WITH 4D-115678                       | 1.3000A   | 119  |
| CRANKSHAFT PULLEY                                                | 1.3000C   | 111  |
| CRANKSHAFT PULLEY BELT                                           | 1.3000D   | 91   |
| FLYWHEEL                                                         | 1.4000A   | 744  |
| FLYWHEEL HOUSING                                                 | 1.5000A   | 454  |
| CONNECTING ROD AND PISTON                                        | 1.6000    | 61   |
| CAMSHAFT AND GEAR TRAIN THRU 4D-180938                           | 1.7000    | 85   |
| CAMSHAFT AND GEAR TRAIN EFF. WITH 4D-180939                      | 1.7000    | 269  |
| VALVE OPERATING MECHANISM THRU 4D-158185                         | 1.8000    | 31   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-158186 AND THRU 4D-162840 | 1.8000    | 188  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-162841 AND THRU 4D-167110 | 1.8000    | 31   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-167111 AND THRU 4D-180938 | 1.8000    | 188  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-180939                    | 1.8000    | 172  |
| ROCKER COVER                                                     | 1.8000A   | 40   |
| FUEL INJECTOR                                                    | 2.1000A   | 76   |
| FUEL PUMP THRU 4D-172166                                         | 2.2000    | 152  |
| FUEL PUMP EFF. WITH 4D-172167                                    | 2.2000    | 180  |
| FUEL PUMP AUXILIARY                                              | 2.2000    | 162  |
| FUEL MANIFOLD CONNECTIONS                                        | 2.4000    | 48   |
| HYDRAULIC GOVERNOR                                               | 2.8000A   | 1026 |
| INJECTOR CONTROLS                                                | 2.9000    | 224  |
| THROTTLE CONTROLS                                                | 2.9000A   | 856  |
| AIR CLEANER ADAPTOR                                              | 3.1000A   | 355  |
| AIR INLET HOUSING                                                | 3.3000A   | 514  |
| BLOWER THRU 4D-180938                                            | 3.4000    | 116  |
| BLOWER EFF. WITH 4D-180939                                       | 3.4000    | 318  |
| BLOWER DRIVE SHAFT                                               | 3.4000A   | 17   |
| OIL PUMP                                                         | 4.1000A   | 52   |
| OIL DISTRIBUTION SYSTEM                                          | 4.1000B   | 430  |
| OIL PRESSURE REGULATOR                                           | 4.1000C   | 9    |
| OIL FILTER                                                       | 4.2000A   | 313  |
| OIL COOLER                                                       | 4.4000A   | 226  |
| OIL FILLER STD. EQUIP. PRIOR TO 4D-29378                         | 4.5000A   | 50   |
| DIPSTICK                                                         | 4.6000A   | 777  |
| OIL PAN                                                          | 4.7000A   | 626  |
| VENTILATING SYSTEM                                               | 4.8000A   | 675  |
| FRESH WATER PUMP                                                 | 5.1000    | 151  |
| WATER OUTLET MANIFOLD                                            | 5.2000A   | 67   |
| THERMOSTAT                                                       | 5.2000B   | 72   |
| WATER BY-PASS TUBE                                               | 5.2000C   | 382  |
| WATER CONNECTIONS                                                | 5.3000B   | 117  |
| FAN STD. EQUIP. PRIOR TO 4D-135404                               | 5.4000A   | 479  |
| EXHAUST MANIFOLD                                                 | 6.1000A   | 224  |
| STARTING MOTOR                                                   | 7.3000A   | 299  |
| AUTOMATIC SHUTDOWN                                               | 7.4000C   | 918  |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                       | GROUP NO. | TYPE |
|------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK                                                   | 1.1000    | 30   |
| AIR BOX DRAINS                                                   | 1.1000A   | 63   |
| CYLINDER HEAD                                                    | 1.2000    | 25   |
| ENGINE LIFTER BRACKET                                            | 1.2000A   | 30   |
| CRANKSHAFT                                                       | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER THRU 4D-115677                            | 1.3000A   | 48   |
| CRANKSHAFT FRONT COVER EFF. WITH 4D-115678                       | 1.3000A   | 119  |
| CRANKSHAFT PULLEY                                                | 1.3000C   | 111  |
| CRANKSHAFT PULLEY BELT                                           | 1.3000D   | 91   |
| FLYWHEEL                                                         | 1.4000A   | 328  |
| FLYWHEEL HOUSING                                                 | 1.5000A   | 491  |
| CONNECTING ROD AND PISTON                                        | 1.6000    | 27   |
| CAMSHAFT AND GEAR TRAIN THRU 4D-180938                           | 1.7000    | 85   |
| CAMSHAFT AND GEAR TRAIN EFF. WITH 4D-180939                      | 1.7000    | 269  |
| ACCESSORY DRIVE                                                  | 1.7000B   | 218  |
| VALVE OPERATING MECHANISM THRU 4D-158185                         | 1.8000    | 32   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-158186 AND THRU 4D-162840 | 1.8000    | 122  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-162841 AND THRU 4D-167110 | 1.8000    | 32   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-167111 AND THRU 4D-180938 | 1.8000    | 122  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-180939                    | 1.8000    | 167  |
| ROCKER COVER                                                     | 1.8000A   | 63   |
| FUEL INJECTOR                                                    | 2.1000A   | 76   |
| FUEL PUMP THRU 4D-172166                                         | 2.2000    | 127  |
| FUEL PUMP EFF. ITH 4D-172167                                     | 2.2000    | 180  |
| FUEL FILTER                                                      | 2.3000A   | 188  |
| FUEL MANIFOLD CONNECTIONS                                        | 2.4000    | 48   |
| FUEL LINES                                                       | 2.5000A   | 411  |
| MECHANICAL GOVERNOR                                              | 2.7000A   | 1708 |
| INJECTOR CONTROLS THRU 4D-156694                                 | 2.9000    | 120  |
| INJECTOR CONTROLS EFF. WITH 4D-156695                            | 2.9000    | 284  |
| THROTTLE CONTROLS                                                | 2.9000A   | 595  |
| AIR INLET HOUSING                                                | 3.3000A   | 596  |
| BLOWER THRU 4D-180938                                            | 3.4000    | 116  |
| BLOWER EFF. WITH 4D-180939                                       | 3.4000    | 318  |
| BLOWER DRIVE SHAFT                                               | 3.4000A   | 17   |
| OIL PUMP                                                         | 4.1000A   | 52   |
| OIL DISTRIBUTION SYSTEM                                          | 4.1000B   | 392  |
| OIL PRESSURE REGULATOR                                           | 4.1000C   | 9    |
| OIL FILTER                                                       | 4.2000A   | 227  |
| OIL COOLER                                                       | 4.4000A   | 239  |
| OIL FILLER                                                       | 4.5000A   | 18   |
| DIPSTICK                                                         | 4.6000A   | 384  |
| OIL PAN                                                          | 4.7000A   | 410  |
| VENTILATING SYSTEM                                               | 4.8000A   | 246  |
| FRESH WATER PUMP                                                 | 5.1000    | 146  |
| WATER OUTLET MANIFOLD                                            | 5.2000A   | 102  |
| THERMOSTAT                                                       | 5.2000B   | 72   |
| WATER BY-PASS TUBE                                               | 5.2000C   | 318  |
| WATER CONNECTIONS                                                | 5.3000B   | 157  |
| FAN                                                              | 5.4000A   | 278  |
| EXHAUST MANIFOLD                                                 | 6.1000A   | 218  |
| EXHAUST MUFFLER CONNECTIONS                                      | 6.2000A   | 243  |
| BATTERY CHARGING GENERATOR                                       | 7.1000A   | 2064 |
| STARTING MOTOR                                                   | 7.3000A   | 188  |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                               | GROUP NO. | TYPE |
|--------------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK                                                           | 1.1000    | 30   |
| AIR BOX DRAINS THRU 4D-11689                                             | 1.1000A   | 32   |
| AIR BOX DRAINS EFF. WITH 4D-11690                                        | 1.1000A   | 63   |
| CYLINDER HEAD                                                            | 1.2000    | 25   |
| ENGINE LIFTER BRACKET                                                    | 1.2000A   | 30   |
| CRANKSHAFT                                                               | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER STD. EQUIP. PRIOR TO 4D-106207 AND THRU 4D-115677 | 1.3000A   | 48   |
| CRANKSHAFT FRONT COVER EFF. WITH 4D-115678                               | 1.3000A   | 119  |
| CRANKSHAFT PULLEY STD. EQUIP. PRIOR TO 4D-2886                           | 1.3000C   | 111  |
| CRANKSHAFT PULLEY BELT                                                   | 1.3000D   | 176  |
| FLYWHEEL                                                                 | 1.4000A   | 296  |
| FLYWHEEL HOUSING                                                         | 1.5000A   | 178  |
| CONNECTING ROD AND PISTON                                                | 1.6000    | 27   |
| CAMSHAFT AND GEAR TRAIN THRU 4D-180938                                   | 1.7000    | 34   |
| CAMSHAFT AND GEAR TRAIN EFF. WITH 4D-180939                              | 1.7000    | 269  |
| VALVE OPERATING MECHANISM THRU 4D-158185                                 | 1.8000    | 32   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-158186 AND THRU 4D-162840         | 1.8000    | 122  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-162841 AND THRU 4D-167110         | 1.8000    | 32   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-167111                            | 1.8000    | 122  |
| ROCKER COVER                                                             | 1.8000A   | 41   |
| FUEL INJECTOR                                                            | 2.1000A   | 76   |
| FUEL PUMP THRU 4D-78175                                                  | 2.2000    | 33   |
| FUEL PUMP EFF. WITH 4D-78176 AND THRU 4D-172166                          | 2.2000    | 127  |
| FUEL PUMP EFF. WITH 4D-172167                                            | 2.2000    | 180  |
| FUEL FILTER                                                              | 2.3000A   | 157  |
| FUEL MANIFOLD CONNECTIONS                                                | 2.4000    | 48   |
| FUEL LINES                                                               | 2.5000A   | 361  |
| MECHANICAL GOVERNOR                                                      | 2.7000A   | 596  |
| INJECTOR CONTROLS THRU 4D-156694                                         | 2.9000    | 120  |
| INJECTOR CONTROLS EFF. WITH 4D-156695                                    | 2.9000    | 284  |
| THROTTLE CONTROLS                                                        | 2.9000A   | 504  |
| AIR INLET HOUSING                                                        | 3.3000A   | 596  |
| BLOWER THRU 4D-36456                                                     | 3.4000    | 63   |
| BLOWER EFF. WITH 4D-36457 AND THRU 4D-180938                             | 3.4000    | 116  |
| BLOWER EFF. WITH 4D-180939                                               | 3.4000    | 318  |
| BLOWER DRIVE SHAFT                                                       | 3.4000A   | 17   |
| OIL PUMP                                                                 | 4.1000A   | 52   |
| OIL DISTRIBUTION SYSTEM                                                  | 4.1000B   | 196  |
| OIL PRESSURE REGULATOR                                                   | 4.1000C   | 9    |
| OIL FILTER                                                               | 4.2000A   | 227  |
| OIL COOLER                                                               | 4.4000A   | 226  |
| OIL FILLER                                                               | 4.5000A   | 18   |
| DIPSTICK                                                                 | 4.6000A   | 261  |
| OIL PAN                                                                  | 4.7000A   | 591  |
| VENTILATING SYSTEM                                                       | 4.8000A   | 195  |
| FRESH WATER PUMP                                                         | 5.1000    | 145  |
| WATER OUTLET MANIFOLD                                                    | 5.2000A   | 67   |
| THERMOSTAT                                                               | 5.2000B   | 72   |
| WATER BY-PASS TUBE                                                       | 5.2000C   | 318  |
| WATER CONNECTIONS                                                        | 5.3000B   | 117  |
| FAN                                                                      | 5.4000A   | 276  |
| EXHAUST MANIFOLD                                                         | 6.1000A   | 218  |
| EXHAUST MUFFLER CONNECTIONS                                              | 6.2000A   | 243  |
| BATTERY CHARGING GENERATOR                                               | 7.1000A   | 2061 |
| STARTING MOTOR                                                           | 7.3000A   | 174  |
| INSTRUMENTS                                                              | 7.4000A   | 372  |



## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                            | GROUP NO. | TYPE |
|-----------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK                                                        | 1.1000    | 69   |
| AIR BOX DRAINS                                                        | 1.1000A   | 78   |
| CYLINDER HEAD                                                         | 1.2000    | 86   |
| ENGINE LIFTER BRACKET                                                 | 1.2000A   | 30   |
| CRANKSHAFT                                                            | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER                                                | 1.3000A   | 48   |
| CRANKSHAFT PULLEY                                                     | 1.3000C   | 131  |
| CRANKSHAFT PULLEY BELT                                                | 1.3000D   | 229  |
| FLYWHEEL                                                              | 1.4000A   | 493  |
| FLYWHEEL HOUSING THRU 4D-87483                                        | 1.5000A   | 344  |
| FLYWHEEL HOUSING EFF. WITH 4D-87484                                   | 1.5000A   | 491  |
| CONNECTING ROD AND PISTON                                             | 1.6000    | 80   |
| CAMSHAFT AND GEAR TRAIN                                               | 1.7000    | 85   |
| VALVE OPERATING MECHANISM                                             | 1.8000    | 32   |
| ROCKER COVER                                                          | 1.8000A   | 167  |
| FUEL INJECTOR                                                         | 2.1000A   | 87   |
| FUEL PUMP THRU 4D-78175                                               | 2.2000    | 75   |
| FUEL PUMP EFF. WITH 4D-78176                                          | 2.2000    | 158  |
| FUEL PUMP, AUXILIARY                                                  | 2.2000    | 58   |
| FUEL FILTER                                                           | 2.3000A   | 403  |
| FUEL MANIFOLD CONNECTIONS                                             | 2.4000    | 48   |
| FUEL LINES                                                            | 2.5000A   | 873  |
| MECHANICAL GOVERNOR THRU 4D-52614                                     | 2.7000A   | 601  |
| MECHANICAL GOVERNOR EFF. WITH 4D-52615 AND THRU 4D-60435              | 2.7000A   | 665  |
| MECHANICAL GOVERNOR EFF. WITH 4D-60436, STD. EQUIP. PRIOR TO 4D-81927 | 2.7000A   | 1122 |
| INJECTOR CONTROLS                                                     | 2.9000    | 91   |
| THROTTLE CONTROLS                                                     | 2.9000A   | 595  |
| AIR CLEANER                                                           | 3.1000A   | 211  |
| AIR INLET HOUSING                                                     | 3.3000A   | 141  |
| BLOWER                                                                | 3.4000    | 116  |
| BLOWER DRIVE SHAFT                                                    | 3.4000A   | 17   |
| OIL PUMP                                                              | 4.1000A   | 52   |
| OIL DISTRIBUTION SYSTEM                                               | 4.1000B   | 236  |
| OIL PRESSURE REGULATOR                                                | 4.1000C   | 9    |
| OIL FILTER                                                            | 4.2000A   | 130  |
| OIL FILTER LINES EFF. WITH 4D-81661                                   | 4.3000A   | 131  |
| OIL COOLER                                                            | 4.4000A   | 444  |
| OIL FILLER                                                            | 4.5000A   | 95   |
| DIPSTICK                                                              | 4.6000A   | 580  |
| OIL PAN                                                               | 4.7000A   | 492  |
| VENTILATING SYSTEM                                                    | 4.8000A   | 491  |
| FRESH WATER PUMP THRU 4D-66996                                        | 5.1000    | 129  |
| FRESH WATER PUMP EFF. WITH 4D-66997                                   | 5.1000    | 146  |
| WATER OUTLET ELBOW                                                    | 5.2000A   | 99   |
| THERMOSTAT                                                            | 5.2000B   | 72   |
| WATER BY-PASS TUBE THRU 4D-66996                                      | 5.2000C   | 130  |
| WATER BY-PASS TUBE EFF. WITH 4D-66997                                 | 5.2000C   | 318  |
| WATER CONNECTIONS                                                     | 5.3000B   | 278  |
| FAN                                                                   | 5.4000A   | 280  |
| EXHAUST MANIFOLD                                                      | 6.1000A   | 218  |
| EXHAUST MUFFLER CONNECTIONS                                           | 6.2000A   | 243  |
| BATTERY CHARGING GENERATOR                                            | 7.1000A   | 1269 |
| STARTING MOTOR                                                        | 7.3000A   | 243  |
| INSTRUMENTS                                                           | 7.4000A   | 759  |
| TACHOMETER DRIVE                                                      | 7.4000B   | 454  |
| POWER TAKE-OFF ADAPTOR                                                | 8.1000A   | 271  |
| ENGINE MOUNTS                                                         | 11.1000A  | 430  |
| COLD WEATHER STARTING AID                                             | 12.6000C  | 45   |

## DETROIT DIESEL 53 MPC ENGINES

5043-8000

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                                 | GROUP NO. | TYPE |
|--------------------------------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK THRU 4D-75730                                                               | 1.1000    | 91   |
| CYLINDER BLOCK EFF. WITH 4D-75731                                                          | 1.1000    | 30   |
| AIR BOX DRAINS                                                                             | 1.1000A   | 78   |
| CYLINDER HEAD                                                                              | 1.2000    | 25   |
| ENGINE LIFTER BRACKET                                                                      | 1.2000A   | •    |
| CRANKSHAFT                                                                                 | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER STD. EQUIP. PRIOR TO 4D-106207 AND THRU 4D-115677                   | 1.3000A   | 48   |
| CRANKSHAFT FRONT COVER EFF. WITH 4D-115678                                                 | 1.3000A   | 119  |
| CRANKSHAFT FRONT COVER                                                                     | 1.3000A   | •    |
| CRANKSHAFT PULLEY                                                                          | 1.3000C   | •    |
| CRANKSHAFT PULLEY BELT                                                                     | 1.3000D   | •    |
| FLYWHEEL                                                                                   | 1.4000A   | •    |
| FLYWHEEL HOUSING                                                                           | 1.5000A   | •    |
| CONNECTING ROD AND PISTON STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                 | 1.6000    | 61   |
| CONNECTING ROD AND PISTON                                                                  | 1.6000    | •    |
| CAMSHAFT AND GEAR TRAIN THRU 4D-180938                                                     | 1.7000    | 34   |
| CAMSHAFT AND GEAR TRAIN EFF. WITH 4D-180939                                                | 1.7000    | 270  |
| BALANCE WEIGHT COVER                                                                       | 1.7000A   | •    |
| VALVE OPERATING MECHANISM THRU 4D-158185                                                   | 1.8000    | 32   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-158186 AND THRU 4D-162840                           | 1.8000    | 122  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-162841 AND THRU 4D-167110                           | 1.8000    | 32   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-167111 AND THRU 4D-180938                           | 1.8000    | 122  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-180939                                              | 1.8000    | 167  |
| ROCKER COVER                                                                               | 1.8000A   | •    |
| FUEL INJECTOR                                                                              | 2.1000A   | •    |
| FUEL PUMP THRU 4D-78175                                                                    | 2.2000    | 33   |
| FUEL PUMP EFF. WITH 4D-78176 AND THRU 4D-172166                                            | 2.2000    | 127  |
| FUEL PUMP EFF. WITH 4D-172167                                                              | 2.2000    | 180  |
| FUEL FILTER                                                                                | 2.3000A   | •    |
| FUEL MANIFOLD CONNECTIONS                                                                  | 2.4000    | 48   |
| FUEL LINES                                                                                 | 2.5000A   | •    |
| MECHANICAL GOVERNOR                                                                        | 2.7000A   | •    |
| INJECTOR CONTROLS THRU 4D-157398                                                           | 2.9000    | 102  |
| INJECTOR CONTROLS EFF. WITH 4D-157399 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE | 2.9000    | 286  |
| INJECTOR CONTROLS                                                                          | 2.9000    | •    |
| THROTTLE CONTROLS                                                                          | 2.9000A   | •    |
| AIR INLET HOUSING                                                                          | 3.3000A   | •    |
| BLOWER THRU 4D-180938                                                                      | 3.4000    | 116  |
| BLOWER EFF. WITH 4D-180939 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE            | 3.4000    | 318  |
| BLOWER                                                                                     | 3.4000    | •    |
| BLOWER DRIVE SHAFT                                                                         | 3.4000A   | 17   |
| OIL PUMP THRU 4D-200699                                                                    | 4.1000A   | 52   |
| OIL PUMP EFF. WITH 4D-200700                                                               | 4.1000A   | 170  |
| OIL DISTRIBUTION SYSTEM                                                                    | 4.1000B   | •    |
| OIL PRESSURE REGULATOR                                                                     | 4.1000C   | •    |
| OIL PRESSURE REGULATOR STD. EQUIP. EFF. WITH 4D-200700                                     | 4.1000C   | 29   |
| OIL FILTER                                                                                 | 4.2000A   | •    |
| OIL COOLER                                                                                 | 4.4000A   | •    |
| OIL FILLER                                                                                 | 4.5000A   | •    |
| DIPSTICK                                                                                   | 4.6000A   | •    |
| OIL PAN                                                                                    | 4.7000A   | •    |
| VENTILATING SYSTEM                                                                         | 4.8000A   | •    |
| FRESH WATER PUMP                                                                           | 5.1000    | •    |
| WATER OUTLET ELBOW                                                                         | 5.2000A   | •    |
| THERMOSTAT STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                                | 5.2000B   | 72   |
| THERMOSTAT                                                                                 | 5.2000B   | •    |
| WATER BY-PASS TUBE                                                                         | 5.2000C   | •    |
| WATER CONNECTIONS                                                                          | 5.3000B   | •    |
| FAN                                                                                        | 5.4000A   | •    |
| EXHAUST MANIFOLD                                                                           | 6.1000A   | •    |
| EXHAUST MUFFLER CONNECTIONS                                                                | 6.2000A   | •    |
| BATTERY CHARGING GENERATOR                                                                 | 7.1000A   | •    |
| STARTING MOTOR                                                                             | 7.3000A   | •    |
| INSTRUMENTS                                                                                | 7.4000A   | •    |

• STANDARD OPTION REFER TO OPTION PLATE.

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                       | GROUP NO. | TYPE |
|------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK                                                   | 1.1000    | 30   |
| AIR BOX DRAINS                                                   | 1.1000A   | 63   |
| CYLINDER HEAD                                                    | 1.2000    | 25   |
| ENGINE LIFTER BRACKET                                            | 1.2000A   | 175  |
| CRANKSHAFT                                                       | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER                                           | 1.3000A   | 119  |
| FLYWHEEL                                                         | 1.4000A   | 378  |
| FLYWHEEL HOUSING                                                 | 1.5000A   | 178  |
| CONNECTING ROD AND PISTON                                        | 1.6000    | 61   |
| CAMSHAFT AND GEAR TRAIN THRU 4D-180938                           | 1.7000    | 34   |
| CAMSHAFT AND GEAR TRAIN EFF. WITH 4D-180939                      | 1.7000    | 270  |
| VALVE OPERATING MECHANISM THRU 4D-158185                         | 1.8000    | 32   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-158186 AND THRU 4D-162840 | 1.8000    | 122  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-162841 AND THRU 4D-167110 | 1.8000    | 32   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-167111 AND THRU 4D-180938 | 1.8000    | 122  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-180939                    | 1.8000    | 167  |
| ROCKER COVER                                                     | 1.8000A   | 41   |
| FUEL INJECTOR                                                    | 2.1000A   | 74   |
| FUEL PUMP THRU 4D-172166                                         | 2.2000    | 127  |
| FUEL PUMP EFF. WITH 4D-172167                                    | 2.2000    | 180  |
| FUEL FILTER                                                      | 2.3000A   | 177  |
| FUEL MANIFOLD CONNECTIONS                                        | 2.4000    | 48   |
| FUEL LINES                                                       | 2.5000A   | NONE |
| MECHANICAL GOVERNOR                                              | 2.7000A   | 1710 |
| INJECTOR CONTROLS THRU 4D-157398                                 | 2.9000    | 102  |
| INJECTOR CONTROLS EFF. WITH 4D-157399                            | 2.9000    | 288  |
| BLOWER THRU 4D-180938                                            | 3.4000    | 116  |
| BLOWER EFF. WITH 4D-180939                                       | 3.4000    | 318  |
| OIL PUMP                                                         | 4.1000A   | 52   |
| OIL DISTRIBUTION SYSTEM THRU 4D-163133                           | 4.1000B   | 196  |
| OIL DISTRIBUTION SYSTEM EFF. WITH 4D-163134                      | 4.1000B   | 213  |
| OIL PRESSURE REGULATOR                                           | 4.1000C   | 9    |
| OIL FILTER                                                       | 4.2000A   | 227  |
| OIL COOLER                                                       | 4.4000A   | 226  |
| OIL FILLER                                                       | 4.5000A   | 18   |
| DIPSTICK THRU 4D-163133                                          | 4.6000A   | 261  |
| DIPSTICK EFF. WITH 4D-163134                                     | 4.6000A   | 281  |
| OIL PAN THRU 4D-163133                                           | 4.7000A   | 591  |
| OIL PAN EFF. WITH 4D-163134                                      | 4.7000A   | 535  |
| VENTILATING SYSTEM                                               | 4.8000A   | 195  |
| FRESH WATER PUMP                                                 | 5.1000    | 145  |
| WATER OUTLET MANIFOLD                                            | 5.2000A   | 102  |
| THERMOSTAT                                                       | 5.2000B   | 72   |
| WATER BY-PASS TUBE                                               | 5.2000C   | 318  |
| WATER CONNECTIONS                                                | 5.3000B   | 135  |
| STARTING MOTOR                                                   | 7.3000A   | 174  |
| TACHOMETER DRIVE                                                 | 7.4000C   | 280  |
| HYDRAULIC MARINE GEAR                                            | 9.1000A   | 928  |
| ENGINE MOUNTING                                                  | 11.1000A  | 506  |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                                      | GROUP NO. | TYPE |
|-------------------------------------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                                 | 1.1000    | 147  |
| CYLINDER BLOCK                                                                                  | 1.1000    | •    |
| AIR BOX DRAINS                                                                                  | 1.1000A   | 63   |
| CYLINDER HEAD STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                                  | 1.2000    | 131  |
| CYLINDER HEAD                                                                                   | 1.2000    | •    |
| ENGINE LIFTER BRACKET                                                                           | 1.2000A   | •    |
| CRANKSHAFT THRU 4D-132707                                                                       | 1.3000    | 21   |
| CRANKSHAFT EFF. WITH 4D-132708                                                                  | 1.3000    | 68   |
| CRANKSHAFT FRONT COVER                                                                          | 1.3000A   | •    |
| CRANKSHAFT PULLEY                                                                               | 1.3000C   | •    |
| CRANKSHAFT PULLEY BELT                                                                          | 1.3000D   | 176  |
| FLYWHEEL                                                                                        | 1.4000A   | •    |
| FLYWHEEL HOUSING                                                                                | 1.5000A   | •    |
| CONNECTING ROD AND PISTON THRU 4D-141552                                                        | 1.6000    | 172  |
| CONNECTING ROD AND PISTON EFF. WITH 4D-141553 AND THRU 4D-181763                                | 1.6000    | 180  |
| CONNECTING ROD AND PISTON EFF. WITH 4D-181764, STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE | 1.6000    | 206  |
| CONNECTING ROD AND PISTON                                                                       | 1.6000    | •    |
| CAMSHAFT AND GEAR TRAIN THRU 4D-180938                                                          | 1.7000    | 153  |
| CAMSHAFT AND GEAR TRAIN EFF. WITH 4D-180939, STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE   | 1.7000    | 427  |
| CAMSHAFT AND GEAR TRAIN                                                                         | 1.7000    | •    |
| BALANCE WEIGHT COVER                                                                            | 1.7000A   | •    |
| VALVE OPERATING MECHANISM THRU 4D-180938                                                        | 1.8000    | 62   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-180939, STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE | 1.8000    | 180  |
| VALVE OPERATING MECHANISM                                                                       | 1.8000    | •    |
| ROCKER COVER                                                                                    | 1.8000A   | •    |
| FUEL INJECTOR                                                                                   | 2.1000A   | •    |
| FUEL PUMP THRU 4D-172166                                                                        | 2.2000    | 127  |
| FUEL PUMP EFF. WITH 4D-172167, STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                 | 2.2000    | 180  |
| FUEL PUMP                                                                                       | 2.2000    | •    |
| FUEL FILTER                                                                                     | 2.3000A   | •    |
| FUEL MANIFOLD CONNECTIONS STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                      | 2.4000    | 48   |
| FUEL MANIFOLD CONNECTIONS                                                                       | 2.4000    | •    |
| FUEL LINES                                                                                      | 2.5000A   | •    |
| MECHANICAL GOVERNOR                                                                             | 2.7000A   | •    |
| INJECTOR CONTROLS THRU 4D-132707                                                                | 2.9000    | 102  |
| INJECTOR CONTROLS EFF. WITH 4D-132708 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE      | 2.9000    | 267  |
| INJECTOR CONTROLS                                                                               | 2.9000    | •    |
| THROTTLE CONTROLS                                                                               | 2.9000A   | •    |
| AIR INLET HOUSING                                                                               | 3.3000A   | •    |
| BLOWER THRU 4D-180938                                                                           | 3.4000    | 236  |
| BLOWER EFF. WITH 4D-180939 AND THRU 4D-204948                                                   | 3.4000    | 336  |
| BLOWER EFF. WITH 4D-204949                                                                      | 3.4000    | 437  |
| BLOWER DRIVE SHAFT                                                                              | 3.4000A   | 17   |
| TURBOCHARGER                                                                                    | 3.5000A   | •    |
| OIL PUMP THRU 4D-200699                                                                         | 4.1000A   | 143  |
| OIL PUMP EFF. WITH 4D-200700                                                                    | 4.1000A   | 162  |
| OIL DISTRIBUTION SYSTEM                                                                         | 4.1000B   | •    |
| OIL PRESSURE REGULATOR                                                                          | 4.1000C   | •    |
| OIL PRESSURE REGULATOR STD. EQUIP. EFF. WITH 4D-200700                                          | 4.1000C   | 9    |
| OIL FILTER                                                                                      | 4.2000A   | •    |
| OIL COOLER                                                                                      | 4.4000A   | •    |
| OIL FILLER                                                                                      | 4.5000A   | •    |
| DIPSTICK                                                                                        | 4.6000A   | •    |
| OIL PAN                                                                                         | 4.7000A   | •    |
| VENTILATING SYSTEM                                                                              | 4.8000A   | •    |
| FRESH WATER PUMP                                                                                | 5.1000    | •    |
| WATER OUTLET ELBOW                                                                              | 5.2000A   | •    |
| THERMOSTAT                                                                                      | 5.2000B   | •    |
| WATER BY-PASS TUBE                                                                              | 5.2000C   | •    |
| WATER CONNECTIONS                                                                               | 5.3000B   | •    |
| FAN                                                                                             | 5.4000A   | •    |
| EXHAUST MANIFOLD                                                                                | 6.1000A   | •    |
| EXHAUST MUFFLER CONNECTIONS                                                                     | 6.2000A   | •    |
| BATTERY CHARGING GENERATOR                                                                      | 7.1000A   | •    |

5043-8301

DETROIT DIESEL 53 MPC ENGINES  
STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                               | GROUP NO. | TYPE |
|------------------------------------------|-----------|------|
| STARTING MOTOR .....                     | 7.3000A   | •    |
| • STANDARD OPTION REFER TO OPTION PLATE. |           |      |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                 | GROUP NO. | TYPE |
|----------------------------|-----------|------|
| CYLINDER BLOCK             | 1.1000    | 147  |
| AIR BOX DRAINS             | 1.1000A   | 63   |
| CYLINDER HEAD              | 1.2000    | 131  |
| ENGINE LIFTER BRACKET      | 1.2000A   | •    |
| CRANKSHAFT                 | 1.3000    | 68   |
| CRANKSHAFT FRONT COVER     | 1.3000A   | •    |
| CRANKSHAFT PULLEY          | 1.3000C   | •    |
| CRANKSHAFT PULLEY BELT     | 1.3000D   | •    |
| FLYWHEEL                   | 1.4000A   | •    |
| FLYWHEEL HOUSING           | 1.5000A   | •    |
| CONNECTING ROD AND PISTON  | 1.6000    | 180  |
| CAMSHAFT AND GEAR TRAIN    | 1.7000    | 153  |
| VALVE OPERATING MECHANISM  | 1.8000    | 62   |
| ROCKER COVER               | 1.8000A   | •    |
| FUEL INJECTOR              | 2.1000A   | •    |
| FUEL PUMP                  | 2.2000    | 180  |
| FUEL FILTER                | 2.3000A   | •    |
| FUEL MANIFOLD CONNECTIONS  | 2.4000    | 48   |
| FUEL LINES                 | 2.5000A   | •    |
| MECHANICAL GOVERNOR        | 2.7000A   | •    |
| INJECTOR CONTROLS          | 2.9000    | 267  |
| AIR INLET HOUSING          | 3.3000A   | •    |
| BLOWER                     | 3.4000    | 236  |
| BLOWER DRIVE SHAFT         | 3.4000A   | 17   |
| TURBOCHARGER               | 3.5000A   | 374  |
| OIL PUMP                   | 4.1000A   | •    |
| OIL DISTRIBUTION SYSTEM    | 4.1000A   | •    |
| OIL PRESSURE REGULATOR     | 4.1000C   | •    |
| OIL FILTER                 | 4.2000A   | •    |
| OIL COOLER                 | 4.4000A   | •    |
| OIL FILLER                 | 4.5000A   | •    |
| DIPSTICK                   | 4.6000A   | •    |
| OIL PAN                    | 4.7000A   | •    |
| VENTILATING SYSTEM         | 4.8000A   | •    |
| FRESH WATER PUMP           | 5.1000    | •    |
| WATER OUTLET ELBOW         | 5.2000A   | •    |
| THERMOSTAT                 | 5.2000B   | •    |
| WATER BY-PASS TUBE         | 5.2000C   | •    |
| WATER CONNECTIONS          | 5.3000B   | •    |
| FAN                        | 5.4000A   | •    |
| EXHAUST MANIFOLD           | 6.1000A   | •    |
| BATTERY CHARGING GENERATOR | 7.1000A   | •    |
| STARTING MOTOR             | 7.3000A   | •    |
| AIR COMPRESSOR             | 12.4000A  | •    |

• STANDARD OPTION REFER TO OPTION PLATE.

## DETROIT DIESEL 53 MPC ENGINES

5043-8399

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                       | GROUP NO. | TYPE |
|----------------------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK STD. EQUIP. PRIOR TO 6D-210092                                    | 1.1000    | 147  |
| AIR BOX DRAINS                                                                   | 1.1000A   | 63   |
| CYLINDER HEAD                                                                    | 1.2000    | 131  |
| ENGINE LIFTER BRACKET STD. EQUIP. PRIOR TO 4D-204432                             | 1.2000A   | 203  |
| CRANKSHAFT                                                                       | 1.3000    | 68   |
| CRANKSHAFT FRONT COVER THRU 4D-200699                                            | 1.3000A   | 121  |
| CRANKSHAFT PULLEY                                                                | 1.3000C   | 111  |
| CRANKSHAFT PULLEY BELT                                                           | 1.3000D   | 113  |
| FLYWHEEL                                                                         | 1.4000A   | 803  |
| FLYWHEEL HOUSING                                                                 | 1.5000A   | 348  |
| CONNECTING ROD AND PISTON THRU 4D-181763                                         | 1.6000    | 205  |
| CONNECTING ROD AND PISTON EFF. WITH 4D-181764 AND STD. EQUIP. PRIOR TO 4D-199015 | 1.6000    | 208  |
| CONNECTING ROD AND PISTON                                                        | 1.6000    | 206  |
| CAMSHAFT AND GEAR TRAIN THRU 4D-180938                                           | 1.7000    | 153  |
| CAMSHAFT AND GEAR TRAIN EFF. WITH 4D-180939                                      | 1.7000    | 427  |
| BALANCE WEIGHT COVER EFF. WITH 4D-200700 AND THRU 4D-205775                      | 1.7000A   | 63   |
| BALANCE WEIGHT COVER EFF. WITH 4D-205775                                         | 1.7000A   | 53   |
| VALVE OPERATING MECHANISM THRU 4D-180938                                         | 1.8000    | 62   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-180939 STD. EQUIP. PRIOR TO 6D-210092     | 1.8000    | 180  |
| ROCKER COVER STD. EQUIP. PRIOR TO 4D-204614                                      | 1.8000A   | 301  |
| FUEL INJECTOR                                                                    | 2.1000A   | 161  |
| FUEL PUMP                                                                        | 2.2000    | 180  |
| FUEL FILTER                                                                      | 2.3000A   | 651  |
| FUEL MANIFOLD CONNECTIONS                                                        | 2.4000    | 48   |
| FUEL LINES                                                                       | 2.5000A   | 1439 |
| MECHANICAL GOVERNOR                                                              | 2.7000A   | 1696 |
| INJECTOR CONTROLS STD. EQUIP. PRIOR TO 4D-204678                                 | 2.9000    | 267  |
| AIR INLET HOUSING STD. EQUIP. PRIOR TO 4D-204614                                 | 3.3000A   | 547  |
| BLOWER THRU 4D-180938                                                            | 3.4000    | 236  |
| BLOWER EFF. WITH 4D-180939; STD. EQUIP. PRIOR TO 4D-204614                       | 3.4000    | 336  |
| BLOWER DRIVE SHAFT                                                               | 3.4000A   | 17   |
| TURBOCHARGER                                                                     | 3.5000A   | ENG  |
| OIL PUMP THRU 4D-200699                                                          | 4.1000A   | 143  |
| OIL PUMP EFF. WITH 4D-200700; STD. EQUIP. PRIOR TO 4D-211672                     | 4.1000A   | 162  |
| OIL DISTRIBUTION SYSTEM                                                          | 4.1000B   | 441  |
| OIL PRESSURE REGULATOR STD. EQUIP. PRIOR TO 4D-211672                            | 4.1000C   | 9    |
| OIL FILTER                                                                       | 4.2000A   | 227  |
| OIL COOLER                                                                       | 4.4000A   | 770  |
| OIL FILLER CAP STD. EQUIP. PRIOR TO 4D-204589                                    | 4.5000A   | 18   |
| DIPSTICK                                                                         | 4.6000A   | 808  |
| OIL PAN                                                                          | 4.7000A   | ENG  |
| VENTILATING SYSTEM (ON ROCKER COVER) STD. EQUIP. PRIOR TO 4D-204614              | 4.8000A   | 585  |
| WATER OUTLET MANIFOLD STD. EQUIP. PRIOR TO 4D-204634                             | 5.2000A   | 181  |
| THERMOSTAT STD. EQUIP. PRIOR TO 4D-204634                                        | 5.2000B   | 274  |
| WATER CONNECTIONS STD. EQUIP. PRIOR TO 4D-204582                                 | 5.3000B   | 117  |
| FAN                                                                              | 5.4000A   | 1018 |
| EXHAUST MANIFOLD                                                                 | 6.1000A   | 475  |
| BATTERY CHARGING GENERATOR                                                       | 7.1000A   | 1930 |
| STARTING MOTOR                                                                   | 7.3000A   | 297  |
| AIR COMPRESSOR                                                                   | 12.4000A  | 1102 |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                       | GROUP NO. | TYPE |
|----------------------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK                                                                   | 1.1000    | 30   |
| AIR BOX DRAINS PRIOR TO 4D-11690                                                 | 1.1000A   | 32   |
| AIR BOX DRAINS EFFECTIVE WITH 4D-11690                                           | 1.1000A   | 63   |
| CYLINDER HEAD (2 VALVE)                                                          | 1.2000    | 24   |
| ENGINE LIFTER BRACKET                                                            | 1.2000A   | 42   |
| CRANKSHAFT                                                                       | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER                                                           | 1.3000A   | 48   |
| CRANKSHAFT PULLEY                                                                | 1.3000C   | 111  |
| CRANKSHAFT PULLEY BELT (1:1 FAN, 12" HIGH WITH AIR COMPRESSOR)                   | 1.3000D   | 116  |
| CRANKSHAFT PULLEY BELT (1:1 FAN, 12" HIGH WITHOUT AIR COMPRESSOR OR VACUUM PUMP) | 1.3000D   | 176  |
| FLYWHEEL (TWIN DISC CLUTCH C110)                                                 | 1.4000A   | 372  |
| FLYWHEEL (TWIN DISC C110/ROCKFORD CLA-21025)                                     | 1.4000A   | 305  |
| FLYWHEEL HOUSING                                                                 | 1.5000A   | 205  |
| FLYWHEEL HOUSING                                                                 | 1.5000A   | 209  |
| CONNECTING ROD AND PISTON                                                        | 1.6000    | 27   |
| CAMSHAFT AND GEAR TRAIN                                                          | 1.7000    | 34   |
| VALVE OPERATING MECHANISM                                                        | 1.8000    | 31   |
| ROCKER COVER                                                                     | 1.8000A   | 40   |
| ROCKER COVER (WITH OIL FILLER)                                                   | 1.8000A   | 41   |
| FUEL INJECTOR                                                                    | 2.1000A   | 52   |
| FUEL PUMP                                                                        | 2.2000    | 34   |
| FUEL PUMP, AUXILIARY                                                             | 2.2000    | 58   |
| FUEL FILTER                                                                      | 2.3000A   | 157  |
| FUEL MANIFOLD CONNECTIONS                                                        | 2.4000    | 48   |
| FUEL LINES                                                                       | 2.5000A   | 502  |
| MECHANICAL GOVERNOR (VARIABLE SPEED, CLOSED LINKAGE)                             | 2.7000A   | 602  |
| MECHANICAL GOVERNOR (VARIABLE SPEED, OPEN LINKAGE WITH BOOSTER SPRING)           | 2.7000A   | 595  |
| INJECTOR CONTROL TUBE                                                            | 2.9000    | 90   |
| THROTTLE CONTROLS (OPEN LINKAGE GOVERNOR, WITHOUT HOODS)                         | 2.9000A   | 511  |
| THROTTLE CONTROLS (VARIABLE SPEED, CLOSED LINKAGE GOVERNOR, WITH HOODS)          | 2.9000A   | 603  |
| AIR INLET HOUSING (MANUAL SHUTDOWN)                                              | 3.3000A   | 142  |
| AIR INLET HOUSING (MECHANICAL SHUTDOWN, RESET LEVER)                             | 3.3000A   | 178  |
| BLOWER                                                                           | 3.4000    | 62   |
| BLOWER DRIVE SHAFT                                                               | 3.4000A   | 17   |
| OIL PUMP                                                                         | 4.1000A   | 52   |
| OIL DISTRIBUTION SYSTEM                                                          | 4.1000B   | 196  |
| OIL PRESSURE REGULATOR                                                           | 4.1000C   | 9    |
| OIL FILTER                                                                       | 4.2000A   | 108  |
| OIL COOLER                                                                       | 4.4000A   | 239  |
| OIL FILLER (IN ROCKER COVER)                                                     | 4.5000A   | 18   |
| OIL FILLER (ON BREATHER)                                                         | 4.5000A   | 54   |
| DIPSTICK PRIOR TO 4D-6760                                                        | 4.6000A   | 168  |
| DIPSTICK EFFECTIVE WITH 4D-6760                                                  | 4.6000A   | 261  |
| OIL PAN (STAMPED, SUMP TO REAR)                                                  | 4.7000A   | 245  |
| OIL PAN (STAMPED, BOTTOM OIL DRAIN)                                              | 4.7000A   | 157  |
| OIL PAN (STAMPED, SIDE OIL DRAIN)                                                | 4.7000A   | 145  |
| VENTILATING SYSTEM                                                               | 4.8000A   | 233  |
| VENTILATING SYSTEM (WITH OIL FILLER)                                             | 4.8000A   | 235  |
| FRESH WATER PUMP                                                                 | 5.1000    | 39   |
| WATER OUTLET ELBOW                                                               | 5.2000A   | 67   |
| THERMOSTAT                                                                       | 5.2000B   | 72   |
| WATER BY-PASS TUBE                                                               | 5.2000C   | 130  |
| RADIATOR (NORMAL TEMPERATURE)                                                    | 5.3000A   | 80   |
| WATER CONNECTIONS                                                                | 5.3000B   | 157  |
| FAN (SUCTION, 1:1 RATIO)                                                         | 5.4000A   | 290  |
| EXHAUST MANIFOLD (WITH MECHANICAL SHUTDOWN)                                      | 6.1000A   | 224  |
| EXHAUST MANIFOLD (WITH MANUAL OR ELECTRICAL SHUTDOWN)                            | 6.1000A   | 218  |
| EXHAUST MUFFLER CONNECTIONS                                                      | 6.2000A   | 243  |
| BATTERY CHARGING GENERATOR (12V., 25 AMP.)                                       | 7.1000A   | 697  |
| BATTERY CHARGING GENERATOR (24V., 40 AMP.)                                       | 7.1000A   | 993  |
| STARTING MOTOR (12V.)                                                            | 7.3000A   | 188  |
| STARTING MOTOR (24V.)                                                            | 7.3000A   | 212  |
| INSTRUMENT PANEL (ON SIDE OPPOSITE BLOWER) (WITH MANUAL SHUTDOWN)                | 7.4000A   | 246  |
| INSTRUMENT PANEL (ON SIDE OPPOSITE BLOWER) (WITH AUTOMATIC SHUTDOWN)             | 7.4000A   | 408  |
| INSTRUMENT PANEL (TACHOMETER ONLY)                                               | 7.4000A   | 416  |
| INSTRUMENT PANEL (MOUNTED ON BLOWER SIDE)                                        | 7.4000A   | 429  |
| TACHOMETER DRIVE (BALANCER SHAFT MOUNTED)                                        | 7.4000B   | 228  |



DETROIT DIESEL 53 MPC ENGINES  
STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                 | GROUP NO. | TYPE |
|------------------------------------------------------------|-----------|------|
| AUTOMATIC SHUTDOWN (WITHOUT OVERSPEED GOVERNOR) .....      | 7.4000C   | 380  |
| AUTOMATIC SHUTDOWN (WITH OVERSPEED GOVERNOR) .....         | 7.4000C   | 482  |
| WIRING HARNESS (INSTRUMENTS ON SIDE OPPOSITE BLOWER) ..... | 7.7000A   | 282  |
| ENGINE HOOD (COMPLETE) .....                               | 10.1000A  | 111  |
| ENGINE MOUNTING (PEDESTAL MOUNTS FOR SAE 2 HOUSING) .....  | 11.1000A  | 357  |
| ENGINE MOUNTING (PEDESTAL MOUNTS FOR SAE 4 HOUSING) .....  | 11.1000A  | 359  |
| AIR COMPRESSOR .....                                       | 12.4000A  | 368  |
| COLD WEATHER STARTING AID .....                            | 12.6000C  | 3    |
| COLD WEATHER STARTING AID .....                            | 12.6000C  | 8    |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                    | GROUP NO. | TYPE |
|---------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK                                                | 1.1000    | 30   |
| AIR BOX DRAINS THRU 4D-11689                                  | 1.1000A   | 32   |
| AIR BOX DRAINS EFF. WITH 4D-11690                             | 1.1000A   | 63   |
| CYLINDER HEAD                                                 | 1.2000    | 24   |
| ENGINE LIFTER BRACKET                                         | 1.2000A   | 41   |
| CRANKSHAFT                                                    | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER                                        | 1.3000A   | 48   |
| CRANKSHAFT PULLEY STD. EQUIP. PRIOR TO 4D-2725                | 1.3000C   | 111  |
| CRANKSHAFT PULLEY BELT                                        | 1.3000D   | 176  |
| FLYWHEEL                                                      | 1.4000A   | 305  |
| FLYWHEEL HOUSING                                              | 1.5000A   | 333  |
| CONNECTING ROD AND PISTON                                     | 1.6000    | 27   |
| CAMSHAFT AND GEAR TRAIN                                       | 1.7000    | 85   |
| VALVE OPERATING MECHANISM                                     | 1.8000    | 31   |
| ROCKER COVER                                                  | 1.8000A   | 41   |
| FUEL INJECTOR THRU 4D-1608                                    | 2.1000A   | 40   |
| FUEL INJECTOR EFF. WITH 4D-1609. STD. EQUIP. PRIOR TO 4D-3359 | 2.1000A   | 52   |
| FUEL PUMP THRU 4D-78175                                       | 2.2000    | 33   |
| FUEL PUMP EFF. WITH 4D-78176                                  | 2.2000    | 127  |
| FUEL FILTER                                                   | 2.3000A   | 157  |
| FUEL MANIFOLD CONNECTIONS                                     | 2.4000    | 48   |
| FUEL LINES THRU 4D-1488                                       | 2.5000A   | 361  |
| FUEL LINES EFF. WITH 4D-1489                                  | 2.5000A   | 500  |
| MECHANICAL GOVERNOR                                           | 2.7000A   | 596  |
| INJECTOR CONTROLS                                             | 2.9000    | 120  |
| THROTTLE CONTROLS                                             | 2.9000A   | 512  |
| AIR CLEANER                                                   | 3.1000A   | 149  |
| AIR INLET HOUSING                                             | 3.3000A   | 141  |
| BLOWER THRU 4D-36456                                          | 3.4000    | 63   |
| BLOWER EFF. WITH 4D-36457                                     | 3.4000    | 116  |
| BLOWER DRIVE SHAFT                                            | 3.4000A   | 17   |
| OIL PUMP                                                      | 4.1000A   | 52   |
| OIL DISTRIBUTION SYSTEM                                       | 4.1000B   | 196  |
| OIL PRESSURE REGULATOR                                        | 4.1000C   | 9    |
| OIL FILTER THRU 4D-21283                                      | 4.2000A   | 108  |
| OIL FILTER EFF. WITH 4D-21284                                 | 4.2000A   | 227  |
| OIL COOLER                                                    | 4.4000A   | 226  |
| OIL FILLER                                                    | 4.5000A   | 18   |
| DIPSTICK                                                      | 4.6000A   | 261  |
| OIL PAN                                                       | 4.7000A   | 591  |
| VENTILATING SYSTEM                                            | 4.8000A   | 234  |
| FRESH WATER PUMP THRU 4D-66634                                | 5.1000    | 38   |
| FRESH WATER PUMP EFF. WITH 4D-66635                           | 5.1000    | 145  |
| WATER OUTLET ELBOW                                            | 5.2000A   | 67   |
| THERMOSTAT                                                    | 5.2000B   | 72   |
| WATER BY-PASS TUBE THRU 4D-66634                              | 5.2000C   | 130  |
| WATER BY-PASS TUBE EFF. WITH 4D-66635                         | 5.2000C   | 318  |
| RADIATOR                                                      | 5.3000A   | 108  |
| WATER CONNECTIONS                                             | 5.3000B   | 135  |
| FAN                                                           | 5.4000A   | 290  |
| EXHAUST MANIFOLD                                              | 6.1000A   | 218  |
| EXHAUST MUFFLER CONNECTIONS                                   | 6.2000A   | 243  |
| BATTERY CHARGING GENERATOR 12V., 42 AMP., DC, CCW ROTATION    | 7.1000A   | 1777 |
| STARTING MOTOR                                                | 7.3000A   | 174  |
| INSTRUMENTS                                                   | 7.4000A   | 405  |
| WIRING HARNESS                                                | 7.7000A   | 280  |
| 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    | 30   |
| AIR BOX DRAINS THRU 4D-11689              | 1.1000A   | 32   |
| AIR BOX DRAINS EFF. WITH 4D-11690         | 1.1000A   | 63   |
| CYLINDER HEAD                             | 1.2000    | 25   |
| ENGINE LIFTER BRACKET                     | 1.2000A   | 41   |
| CRANKSHAFT                                | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER                    | 1.3000A   | 48   |
| CRANKSHAFT PULLEY                         | 1.3000C   | 111  |
| CRANKSHAFT PULLEY BELT                    | 1.3000D   | 176  |
| FLYWHEEL                                  | 1.4000A   | 305  |
| FLYWHEEL HOUSING                          | 1.5000A   | 333  |
| CONNECTING ROD AND PISTON                 | 1.6000    | 27   |
| CAMSHAFT AND GEAR TRAIN                   | 1.7000    | 34   |
| VALVE OPERATING MECHANISM                 | 1.8000    | 32   |
| ROCKER COVER                              | 1.8000A   | 41   |
| FUEL INJECTOR THRU 4D-1608                | 2.1000A   | 40   |
| FUEL INJECTOR EFF. WITH 4D-1609           | 2.1000A   | 52   |
| FUEL PUMP                                 | 2.2000    | 33   |
| FUEL FILTER STD. EQUIP. PRIOR TO 4D-73198 | 2.3000A   | 157  |
| FUEL MANIFOLD CONNECTIONS                 | 2.4000    | 48   |
| FUEL LINES THRU 4D-1488                   | 2.5000A   | 361  |
| FUEL LINES EFF. WITH 4D-1489              | 2.5000A   | 500  |
| MECHANICAL GOVERNOR                       | 2.7000A   | 596  |
| INJECTOR CONTROLS                         | 2.9000    | 120  |
| THROTTLE CONTROLS                         | 2.9000A   | 512  |
| AIR CLEANER                               | 3.1000A   | 149  |
| AIR INLET HOUSING                         | 3.3000A   | 141  |
| BLOWER THRU 4D-36456                      | 3.4000    | 63   |
| BLOWER EFF. WITH 4D-36457                 | 3.4000    | 116  |
| BLOWER DRIVE SHAFT                        | 3.4000A   | 17   |
| OIL PUMP                                  | 4.1000A   | 52   |
| OIL DISTRIBUTION SYSTEM                   | 4.1000B   | 196  |
| OIL PRESSURE REGULATOR                    | 4.1000C   | 9    |
| OIL FILTER THRU 4D-21283                  | 4.2000A   | 108  |
| OIL FILTER EFF. WITH 4D-21284             | 4.2000A   | 227  |
| OIL COOLER STD. EQUIP. PRIOR TO 4D-73198  | 4.4000A   | 226  |
| OIL FILLER                                | 4.5000A   | 18   |
| DIPSTICK                                  | 4.6000A   | 261  |
| OIL PAN                                   | 4.7000A   | 145  |
| VENTILATING SYSTEM                        | 4.8000A   | 234  |
| FRESH WATER PUMP                          | 5.1000    | 38   |
| WATER OUTLET MANIFOLD                     | 5.2000A   | 67   |
| THERMOSTAT                                | 5.2000B   | 72   |
| WATER BY-PASS TUBE                        | 5.2000C   | 130  |
| RADIATOR                                  | 5.3000A   | 108  |
| WATER CONNECTIONS                         | 5.3000B   | 135  |
| FAN                                       | 5.4000A   | 290  |
| EXHAUST MANIFOLD                          | 6.1000A   | 218  |
| EXHAUST MUFFLER CONNECTIONS               | 6.2000A   | 243  |
| BATTERY CHARGING GENERATOR                | 7.1000A   | 1777 |
| STARTING MOTOR                            | 7.3000A   | 174  |
| INSTRUMENTS                               | 7.4000A   | 405  |
| WIRING HARNESS                            | 7.7000A   | 280  |
| POWER TAKE-OFF                            | 8.1000A   | 180  |
| ENGINE MOUNTS                             | 11.1000A  | 359  |

## DETROIT DIESEL 53 MPC ENGINES

5044-7203

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                  | GROUP NO. | TYPE |
|---------------------------------------------|-----------|------|
| CYLINDER BLOCK                              | 1.1000    | 30   |
| AIR BOX DRAINS THRU 4D-11689                | 1.1000A   | 32   |
| AIR BOX DRAINS EFF. WITH 4D-11690           | 1.1000A   | 63   |
| CYLINDER HEAD                               | 1.2000    | 25   |
| ENGINE LIFTER BRACKET                       | 1.2000A   | 41   |
| CRANKSHAFT                                  | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER                      | 1.3000A   | 48   |
| CRANKSHAFT PULLEY                           | 1.3000C   | 111  |
| CRANKSHAFT PULLEY BELT                      | 1.3000D   | 176  |
| FLYWHEEL                                    | 1.4000A   | 336  |
| FLYWHEEL HOUSING                            | 1.5000A   | 349  |
| CONNECTING ROD AND PISTON                   | 1.6000    | 27   |
| CAMSHAFT AND GEAR TRAIN                     | 1.7000    | 34   |
| VALVE OPERATING MECHANISM                   | 1.8000    | 32   |
| ROCKER COVER                                | 1.8000A   | 41   |
| FUEL INJECTOR STD. EQUIP. PRIOR TO 4D-3229  | 2.1000A   | 52   |
| FUEL PUMP                                   | 2.2000    | 33   |
| FUEL FILTER                                 | 2.3000A   | 181  |
| FUEL MANIFOLD CONNECTIONS                   | 2.4000    | 48   |
| FUEL LINES                                  | 2.5000A   | 503  |
| MECHANICAL GOVERNOR                         | 2.7000A   | 596  |
| INJECTOR CONTROLS                           | 2.9000    | 120  |
| THROTTLE CONTROLS                           | 2.9000A   | 512  |
| AIR CLEANER                                 | 3.1000A   | 149  |
| AIR INLET HOUSING                           | 3.3000A   | 141  |
| BLOWER THRU 4D-36456                        | 3.4000    | 63   |
| BLOWER EFF. WITH 4D-36457                   | 3.4000    | 116  |
| BLOWER DRIVE SHAFT                          | 3.4000A   | 17   |
| OIL PUMP                                    | 4.1000A   | 52   |
| OIL DISTRIBUTION SYSTEM                     | 4.1000B   | 196  |
| OIL PRESSURE REGULATOR                      | 4.1000C   | 9    |
| OIL FILTER THRU 4D-21283                    | 4.2000A   | 108  |
| OIL FILTER EFF. WITH 4D-21284               | 4.2000A   | 227  |
| OIL COOLER                                  | 4.4000A   | 268  |
| OIL FILLER                                  | 4.5000A   | 18   |
| DIPSTICK THRU 4D-1481                       | 4.6000A   | 107  |
| DIPSTICK EFF. WITH 4D-1482 AND THRU 4D-6748 | 4.6000A   | 168  |
| DIPSTICK EFF. WITH 4D-6749                  | 4.6000A   | 261  |
| OIL PAN                                     | 4.7000A   | 145  |
| VENTILATING SYSTEM                          | 4.8000A   | 234  |
| FRESH WATER PUMP                            | 5.1000    | 38   |
| WATER OUTLET ELBOW                          | 5.2000A   | 67   |
| THERMOSTAT                                  | 5.2000B   | 72   |
| WATER BY-PASS TUBE                          | 5.2000C   | 130  |
| RADIATOR                                    | 5.3000A   | 110  |
| WATER CONNECTIONS                           | 5.3000B   | 135  |
| FAN                                         | 5.4000A   | 290  |
| EXHAUST MANIFOLD                            | 6.1000A   | 218  |
| EXHAUST MUFFLER CONNECTIONS                 | 6.2000A   | 243  |
| BATTERY CHARGING GENERATOR                  | 7.1000A   | 825  |
| STARTING MOTOR                              | 7.3000A   | 174  |
| INSTRUMENTS                                 | 7.4000A   | 405  |
| WIRING HARNESS                              | 7.7000A   | 280  |
| TORQUE CONVERTER                            | 8.3000A   | 394  |
| TORQUE CONVERTER LINES                      | 8.3000B   | 123  |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                                 | GROUP NO. | TYPE |
|--------------------------------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK .....                                                                       | 1.1000    | 30   |
| AIR BOX DRAINS .....                                                                       | 1.1000A   | 63   |
| CYLINDER HEAD .....                                                                        | 1.2000    | 25   |
| ENGINE LIFTER BRACKET STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE .....               | 1.2000A   | 53   |
| ENGINE LIFTER BRACKET .....                                                                | 1.2000A   | •    |
| CRANKSHAFT .....                                                                           | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE .....              | 1.3000A   | 119  |
| CRANKSHAFT FRONT COVER .....                                                               | 1.3000A   | •    |
| CRANKSHAFT PULLEY .....                                                                    | 1.3000C   | 111  |
| FLYWHEEL .....                                                                             | 1.4000A   | •    |
| FLYWHEEL HOUSING .....                                                                     | 1.5000A   | •    |
| CONNECTING ROD AND PISTON STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE .....           | 1.6000    | 61   |
| CONNECTING ROD AND PISTON .....                                                            | 1.6000    | •    |
| CAMSHAFT AND GEAR TRAIN THRU 4D-180938 .....                                               | 1.7000    | 153  |
| CAMSHAFT AND GEAR TRAIN EFF. WITH 4D-180939 .....                                          | 1.7000    | 270  |
| BALANCE WEIGHT COVER .....                                                                 | 1.7000A   | •    |
| VALVE OPERATING MECHANISM THRU 4D-158185 .....                                             | 1.8000    | 32   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-158186 AND THRU 4D-162840 .....                     | 1.8000    | 122  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-162841 AND THRU 4D-167110 .....                     | 1.8000    | 32   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-167111 AND THRU 4D-180938 .....                     | 1.8000    | 122  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-180939 .....                                        | 1.8000    | 167  |
| ROCKER COVER .....                                                                         | 1.8000A   | •    |
| FUEL INJECTOR .....                                                                        | 2.1000A   | •    |
| FUEL PUMP EFF. THRU 4D-172166 .....                                                        | 2.2000    | 127  |
| FUEL PUMP EFF. WITH 4D-172167 .....                                                        | 2.2000    | 180  |
| FUEL FILTER THRU 4D-175672 .....                                                           | 2.3000A   | 157  |
| FUEL FILTER EFF. WITH 4D-175673 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE ..... | 2.3000A   | 720  |
| FUEL FILTER .....                                                                          | 2.3000A   | •    |
| FUEL MANIFOLD CONNECTIONS .....                                                            | 2.4000    | 48   |
| FUEL LINES STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE .....                          | 2.5000A   | 456  |
| FUEL LINES .....                                                                           | 2.5000A   | •    |
| MECHANICAL GOVERNOR .....                                                                  | 2.7000A   | •    |
| INJECTOR CONTROLS STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE .....                   | 2.9000    | 286  |
| INJECTOR CONTROLS .....                                                                    | 2.9000    | •    |
| THROTTLE CONTROLS .....                                                                    | 2.9000A   | •    |
| AIR CLEANER .....                                                                          | 3.1000A   | •    |
| AIR INLET HOUSING .....                                                                    | 3.3000A   | •    |
| BLOWER THRU 4D-180938 .....                                                                | 3.4000    | 116  |
| BLOWER EFF. WITH 4D-180939 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE .....      | 3.4000    | 318  |
| BLOWER .....                                                                               | 3.4000    | •    |
| BLOWER DRIVE SHAFT .....                                                                   | 3.4000A   | 17   |
| OIL PUMP THRU 4D-200699 .....                                                              | 4.1000A   | 52   |
| OIL PUMP EFF. WITH 4D-200700 .....                                                         | 4.1000A   | 170  |
| OIL DISTRIBUTION SYSTEM STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE .....             | 4.1000B   | 196  |
| OIL DISTRIBUTION SYSTEM .....                                                              | 4.1000B   | •    |
| OIL PRESSURE REGULATOR THRU 4D-200699 .....                                                | 4.1000C   | 9    |
| OIL PRESSURE REGULATOR EFF. WITH 4D-200700 .....                                           | 4.1000C   | 29   |
| OIL FILTER .....                                                                           | 4.2000A   | •    |
| OIL COOLER STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE .....                          | 4.4000A   | 239  |
| OIL COOLER .....                                                                           | 4.4000A   | •    |
| OIL FILLER .....                                                                           | 4.5000A   | •    |
| DIPSTICK STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE .....                            | 4.6000A   | 261  |
| DIPSTICK .....                                                                             | 4.6000A   | •    |
| OIL PAN STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE .....                             | 4.7000A   | 591  |
| OIL PAN .....                                                                              | 4.7000A   | •    |
| VENTILATING SYSTEM .....                                                                   | 4.8000A   | •    |
| FRESH WATER PUMP .....                                                                     | 5.1000    | •    |
| THERMOSTAT STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE .....                          | 5.2000B   | 72   |
| THERMOSTAT .....                                                                           | 5.2000B   | •    |
| WATER BY-PASS TUBE .....                                                                   | 5.2000C   | •    |
| WATER CONNECTIONS .....                                                                    | 5.3000B   | •    |
| HEAT EXCHANGER .....                                                                       | 5.5000A   | •    |
| EXHAUST MANIFOLD STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE .....                    | 6.1000A   | 397  |
| EXHAUST MANIFOLD .....                                                                     | 6.1000A   | •    |
| EXHAUST MUFFLER CONNECTIONS .....                                                          | 6.2000A   | •    |
| BATTERY CHARGING GENERATOR .....                                                           | 7.1000A   | •    |
| STARTING MOTOR .....                                                                       | 7.3000A   | •    |

## DETROIT DIESEL 53 MPC ENGINES

5044-8000

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                               | GROUP NO. | TYPE |
|------------------------------------------|-----------|------|
| INSTRUMENTS .....                        | 7.4000A   | •    |
| POWER TAKE-OFF .....                     | 8.1000A   | •    |
| ENGINE MOUNTS .....                      | 11.1000A  | •    |
| • STANDARD OPTION REFER TO OPTION PLATE. |           |      |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                       | GROUP NO. | TYPE |
|------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK                                                   | 1.1000    | 30   |
| AIR BOX DRAINS THRU 4D-11689                                     | 1.1000A   | 32   |
| AIR BOX DRAINS EFF. WITH 4D-11690                                | 1.1000A   | 63   |
| CYLINDER HEAD                                                    | 1.2000    | 24   |
| ENGINE LIFTER BRACKET                                            | 1.2000A   | 40   |
| CRANKSHAFT                                                       | 1.3000    | 21   |
| CRANKSHAFT FRONT COVER THRU 4D-106480                            | 1.3000A   | 48   |
| CRANKSHAFT FRONT COVER EFF. WITH 4D-106481                       | 1.3000A   | 119  |
| CRANKSHAFT PULLEY STD. EQUIP. PRIOR TO 4D-3710                   | 1.3000C   | 111  |
| FLYWHEEL                                                         | 1.4000A   | 305  |
| FLYWHEEL HOUSING                                                 | 1.5000A   | 330  |
| CONNECTING ROD AND PISTON THRU 4D-14985                          | 1.6000    | 27   |
| CONNECTING ROD AND PISTON EFF. WITH 4D-14986                     | 1.6000    | 61   |
| CAMSHAFT AND GEAR TRAIN THRU 4D-180938                           | 1.7000    | 34   |
| CAMSHAFT AND GEAR TRAIN EFF. WITH 4D-180939                      | 1.7000    | 270  |
| VALVE OPERATING MECHANISM THRU 4D-158185                         | 1.8000    | 31   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-158186 AND THRU 4D-182840 | 1.8000    | 186  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-182841 AND THRU 4D-187110 | 1.8000    | 31   |
| VALVE OPERATING MECHANISM EFF. WITH 4D-167111 AND THRU 4D-180938 | 1.8000    | 186  |
| VALVE OPERATING MECHANISM EFF. WITH 4D-180939                    | 1.8000    | 171  |
| ROCKER COVER                                                     | 1.8000A   | 41   |
| FUEL INJECTOR                                                    | 2.1000A   | 78   |
| FUEL PUMP THRU 4D-78175                                          | 2.2000    | 33   |
| FUEL PUMP EFF. WITH 4D-78176 AND THRU 4D-172166                  | 2.2000    | 127  |
| FUEL PUMP EFF. WITH 4D-172167                                    | 2.2000    | 180  |
| FUEL FILTER                                                      | 2.3000A   | 157  |
| FUEL MANIFOLD CONNECTIONS                                        | 2.4000    | 48   |
| FUEL LINES                                                       | 2.5000A   | 456  |
| MECHANICAL GOVERNOR                                              | 2.7000A   | 596  |
| INJECTOR CONTROLS THRU 4D-157398                                 | 2.9000    | 102  |
| INJECTOR CONTROLS EFF. WITH 4D-157399                            | 2.9000    | 286  |
| THROTTLE CONTROLS                                                | 2.9000A   | 504  |
| AIR CLEANER                                                      | 3.1000A   | 238  |
| AIR INLET HOUSING                                                | 3.3000A   | 599  |
| BLOWER THRU 4D-36456                                             | 3.4000    | 63   |
| BLOWER EFF. WITH 4D-36457 AND THRU 4D-180938                     | 3.4000    | 116  |
| BLOWER EFF. WITH 4D-180939                                       | 3.4000    | 318  |
| BLOWER DRIVE SHAFT                                               | 3.4000A   | 17   |
| OIL PUMP                                                         | 4.1000A   | 52   |
| OIL DISTRIBUTION SYSTEM THRU 4D-1002                             | 4.1000B   | 166  |
| OIL DISTRIBUTION SYSTEM EFF. WITH 4D-1003                        | 4.1000B   | 196  |
| OIL PRESSURE REGULATOR                                           | 4.1000C   | 9    |
| OIL FILTER                                                       | 4.2000A   | 227  |
| OIL COOLER                                                       | 4.4000A   | 239  |
| OIL FILLER                                                       | 4.5000A   | 18   |
| DIPSTICK THRU 4D-1481                                            | 4.6000A   | 107  |
| DIPSTICK EFF. WITH 4D-1482 AND THRU 4D-7223                      | 4.6000A   | 168  |
| DIPSTICK EFF. WITH 4D-7224                                       | 4.6000A   | 261  |
| OIL PAN THRU 4D-1002                                             | 4.7000A   | 106  |
| OIL PAN EFF. WITH 4D-1003                                        | 4.7000A   | 145  |
| VENTILATING SYSTEM                                               | 4.8000A   | 195  |
| FRESH WATER PUMP                                                 | 5.1000    | 158  |
| THERMOSTAT                                                       | 5.2000B   | 72   |
| WATER BY-PASS TUBE                                               | 5.2000C   | 319  |
| WATER CONNECTIONS                                                | 5.3000B   | 208  |
| HEAT EXCHANGER                                                   | 5.5000A   | 303  |
| EXHAUST MANIFOLD THRU 4D-62198                                   | 6.1000A   | 126  |
| EXHAUST MANIFOLD EFF. WITH 4D-62199                              | 6.1000A   | 397  |
| EXHAUST MUFFLER CONNECTIONS                                      | 6.2000A   | 176  |
| BATTERY CHARGING GENERATOR 12V., 42 AMP., DC, CW ROTATION        | 7.1000A   | 2059 |
| STARTING MOTOR                                                   | 7.3000A   | 302  |
| INSTRUMENTS                                                      | 7.4000A   | 510  |
| WIRING HARNESS                                                   | 7.7000A   | 303  |
| POWER TAKE-OFF                                                   | 8.1000A   | 180  |
| ENGINE MOUNTS                                                    | 11.1000A  | 353  |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                  | GROUP NO. | TYPE |
|-----------------------------|-----------|------|
| CYLINDER BLOCK              | 1.1000    | 145  |
| AIR BOX DRAINS              | 1.1000A   | 63   |
| CYLINDER HEAD               | 1.2000    | 25   |
| ENGINE LIFTER BRACKET       | 1.2000A   | 204  |
| CRANKSHAFT                  | 1.3000    | 70   |
| CRANKSHAFT FRONT COVER      | 1.3000A   | 48   |
| CRANKSHAFT PULLEY           | 1.3000C   | 365  |
| FLYWHEEL                    | 1.4000A   | •    |
| FLYWHEEL HOUSING            | 1.5000A   | •    |
| CONNECTING ROD AND PISTON   | 1.6000    | 98   |
| CAMSHAFT AND GEAR TRAIN     | 1.7000    | 182  |
| VALVE OPERATING MECHANISM   | 1.8000    | 122  |
| ROCKER COVER                | 1.8000A   | 404  |
| FUEL INJECTOR               | 2.1000A   | •    |
| FUEL PUMP                   | 2.2000    | 136  |
| FUEL FILTER                 | 2.3000A   | 181  |
| FUEL MANIFOLD CONNECTIONS   | 2.4000    | 48   |
| FUEL LINES                  | 2.5000A   | 1467 |
| MECHANICAL GOVERNOR         | 2.7000A   | •    |
| INJECTOR CONTROLS           | 2.9000    | 270  |
| AIR INLET HOUSING           | 3.3000A   | 578  |
| BLOWER                      | 3.4000    | 306  |
| BLOWER DRIVE SHAFT          | 3.4000A   | 17   |
| OIL PUMP                    | 4.1000A   | 52   |
| OIL DISTRIBUTION SYSTEM     | 4.1000B   | 346  |
| OIL PRESSURE REGULATOR      | 4.1000C   | 9    |
| OIL FILTER                  | 4.2000A   | 338  |
| OIL COOLER                  | 4.4000A   | •    |
| OIL FILLER                  | 4.5000A   | 118  |
| DIPSTICK                    | 4.6000A   | 856  |
| OIL PAN                     | 4.7000A   | 655  |
| FRESH WATER PUMP            | 5.1000    | 145  |
| WATER OUTLET ELBOW          | 5.2000A   | 70   |
| THERMOSTAT                  | 5.2000B   | 274  |
| WATER BY-PASS TUBE          | 5.2000C   | 403  |
| WATER CONNECTIONS           | 5.3000B   | 351  |
| EXHAUST MANIFOLD            | 6.1000A   | •    |
| EXHAUST MUFFLER CONNECTIONS | 6.2000A   | •    |
| CLUTCH HOUSING              | 8.1000A   | •    |

• STANDARD OPTION REFER TO OPTION PLATE.



## DETROIT DIESEL 53 MPC ENGINES

5060-5000

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                      | GROUP NO. | TYPE |
|---------------------------------|-----------|------|
| CYLINDER BLOCK .....            | 1.1000    | 31   |
| AIR BOX DRAINS .....            | 1.1000A   | 62   |
| CYLINDER HEAD .....             | 1.2000    | 26   |
| ENGINE LIFTER BRACKET .....     | 1.2000A   | 44   |
| CRANKSHAFT .....                | 1.3000    | 22   |
| CRANKSHAFT FRONT COVER .....    | 1.3000A   | 65   |
| FLYWHEEL HOUSING .....          | 1.5000A   | 212  |
| CONNECTING ROD AND PISTON ..... | 1.6000    | 62   |
| CAMSHAFT AND GEAR TRAIN .....   | 1.7000    | 35   |
| VALVE OPERATING MECHANISM ..... | 1.8000    | 33   |
| ROCKER COVER .....              | 1.8000A   | 64   |
| FUEL INJECTOR .....             | 2.1000A   | 76   |
| FUEL PUMP .....                 | 2.2000    | 50   |
| FUEL MANIFOLD CONNECTIONS ..... | 2.4000    | 48   |
| FUEL LINES .....                | 2.5000A   | 860  |
| MECHANICAL GOVERNOR .....       | 2.7000A   | 515  |
| INJECTOR CONTROLS .....         | 2.9000    | 110  |
| BLOWER .....                    | 3.4000    | 73   |
| BLOWER DRIVE SHAFT .....        | 3.4000A   | 17   |
| OIL PUMP .....                  | 4.1000A   | 51   |
| OIL DISTRIBUTION SYSTEM .....   | 4.1000B   | 238  |
| OIL PRESSURE REGULATOR .....    | 4.1000C   | 12   |
| OIL COOLER .....                | 4.4000A   | 297  |
| OIL FILLER .....                | 4.5000A   | 18   |
| DIPSTICK .....                  | 4.6000A   | 257  |
| OIL PAN .....                   | 4.7000A   | 272  |
| VENTILATING SYSTEM .....        | 4.8000A   | 248  |
| FRESH WATER PUMP .....          | 5.1000    | 74   |
| WATER OUTLET ELBOW .....        | 5.2000A   | 86   |
| THERMOSTAT .....                | 5.2000B   | 86   |
| WATER BY-PASS TUBE .....        | 5.2000C   | 164  |
| WATER CONNECTIONS .....         | 5.3000B   | 156  |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                                 | GROUP NO. | TYPE |
|--------------------------------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK THRU 6D-233419                                                              | 1.1000    | 31   |
| CYLINDER BLOCK EFF. WITH 6D-233420                                                         | 1.1000    | 146  |
| AIR BOX DRAINS                                                                             | 1.1000A   | 62   |
| CYLINDER HEAD                                                                              | 1.2000    | 26   |
| ENGINE LIFTER BRACKET THRU 6D-14545                                                        | 1.2000A   | 48   |
| ENGINE LIFTER BRACKET EFF. WITH 6D-14546 AND THRU 6D-20390                                 | 1.2000A   | 114  |
| ENGINE LIFTER BRACKET EFF. WITH 6D-20391, STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE | 1.2000A   | 48   |
| ENGINE LIFTER BRACKET                                                                      | 1.2000A   | •    |
| CRANKSHAFT THRU 6D-11073                                                                   | 1.3000    | 22   |
| CRANKSHAFT EFF. WITH 6D-11074                                                              | 1.3000    | 44   |
| CRANKSHAFT FRONT COVER THRU 6D-218704                                                      | 1.3000A   | 66   |
| CRANKSHAFT PULLEY                                                                          | 1.3000C   | •    |
| FLYWHEEL                                                                                   | 1.4000A   | •    |
| FLYWHEEL HOUSING                                                                           | 1.5000A   | •    |
| FLYWHEEL HOUSING ADAPTOR                                                                   | 1.5000B   | •    |
| CONNECTING ROD AND PISTON STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                 | 1.6000    | 68   |
| CONNECTING ROD AND PISTON                                                                  | 1.6000    | •    |
| CAMSHAFT AND GEAR TRAIN                                                                    | 1.7000    | 35   |
| BALANCE WEIGHT COVER EFF. WITH 6D-218705                                                   | 1.7000A   | 54   |
| VALVE OPERATING MECHANISM THRU 6D-196534                                                   | 1.8000    | 33   |
| VALVE OPERATING MECHANISM EFF. WITH 6D-196535                                              | 1.8000    | 164  |
| ROCKER COVER                                                                               | 1.8000A   | •    |
| FUEL INJECTOR                                                                              | 2.1000A   | •    |
| FUEL PUMP THRU 6D-8894                                                                     | 2.2000    | 42   |
| FUEL PUMP EFF. WITH 6D-8895 AND THRU 6D-78448                                              | 2.2000    | 80   |
| FUEL PUMP EFF. WITH 6D-78449 AND THRU 6D-188153 AND THRU 6D-188810                         | 2.2000    | 144  |
| FUEL PUMP EFF. WITH 6D-188811 AND THRU 6D-196534                                           | 2.2000    | 183  |
| FUEL PUMP EFF. WITH 6D-196535, STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE            | 2.2000    | 192  |
| FUEL PUMP                                                                                  | 2.2000    | •    |
| FUEL FILTER THRU 6D-8894                                                                   | 2.3000A   | 190  |
| FUEL FILTER EFF. WITH 6D-8895                                                              | 2.3000A   | 328  |
| FUEL PUMP EFF. WITH 6D-188154                                                              | 2.2000    | 182  |
| FUEL MANIFOLD CONNECTIONS                                                                  | 2.4000    | 48   |
| FUEL LINES THRU 6D-8894                                                                    | 2.5000A   | 462  |
| FUEL LINES EFF. WITH 6D-8895 AND THRU 6D-27019                                             | 2.5000A   | 917  |
| FUEL LINES EFF. WITH 6D-27020                                                              | 2.5000A   | 1014 |
| MECHANICAL GOVERNOR                                                                        | 2.7000A   | •    |
| INJECTOR CONTROLS THRU 6D-171833                                                           | 2.9000    | 122  |
| INJECTOR CONTROLS EFF. WITH 6D-171834 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE | 2.9000    | 273  |
| INJECTOR CONTROLS                                                                          | 2.9000    | •    |
| THROTTLE CONTROLS                                                                          | 2.9000A   | •    |
| AIR SILENCER                                                                               | 3.2000A   | •    |
| AIR INLET HOUSING                                                                          | 3.3000A   | •    |
| BLOWER THRU 6D-24898                                                                       | 3.4000    | 98   |
| BLOWER EFF. WITH 6D-24899 AND THRU 6D-158288                                               | 3.4000    | 129  |
| BLOWER EFF. WITH 6D-158289 AND THRU 6D-196534                                              | 3.4000    | 304  |
| BLOWER EFF. WITH 6D-196535, STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE               | 3.4000    | 326  |
| BLOWER                                                                                     | 3.4000    | •    |
| BLOWER DRIVE SHAFT                                                                         | 3.4000A   | 17   |
| OIL PUMP THRU 6D-218704                                                                    | 4.1000A   | 51   |
| OIL PUMP EFF. WITH 6D-218705                                                               | 4.1000A   | 174  |
| OIL DISTRIBUTION SYSTEM                                                                    | 4.1000B   | •    |
| OIL PRESSURE REGULATOR                                                                     | 4.1000C   | 12   |
| OIL FILTER                                                                                 | 4.2000A   | •    |
| OIL FILTER LINES                                                                           | 4.3000A   | •    |
| OIL COOLER (ENGINE)                                                                        | 4.4000A   | •    |
| OIL COOLER (MARINE GEAR)                                                                   | 4.4000A   | •    |
| OIL FILLER                                                                                 | 4.5000A   | •    |
| DIPSTICK                                                                                   | 4.6000A   | •    |
| OIL PAN                                                                                    | 4.7000A   | •    |
| VENTILATING SYSTEM                                                                         | 4.8000A   | •    |
| FRESH WATER PUMP THRU 6D-66882                                                             | 5.1000    | 71   |
| FRESH WATER PUMP EFF. WITH 6D-66883                                                        | 5.1000    | 159  |
| THERMOSTAT                                                                                 | 5.2000B   | •    |
| WATER BY-PASS TUBE                                                                         | 5.2000C   | •    |
| WATER CONNECTIONS                                                                          | 5.3000B   | •    |
| HEAT EXCHANGER                                                                             | 5.5000A   | •    |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                                  | GROUP NO. | TYPE |
|---------------------------------------------------------------------------------------------|-----------|------|
| RAW WATER PUMP .....                                                                        | 5.6000A   | •    |
| EXHAUST MANIFOLD THRU 6D-67449 .....                                                        | 6.1000A   | 125  |
| EXHAUST MANIFOLD EFF. WITH 6D-67450 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE .. | 6.1000A   | 404  |
| EXHAUST MANIFOLD .....                                                                      | 6.1000A   | •    |
| EXHAUST MUFFLER CONNECTIONS STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE .....          | 6.2000A   | 187  |
| EXHAUST MUFFLER CONNECTIONS .....                                                           | 6.2000A   | •    |
| BATTERY CHARGING GENERATOR .....                                                            | 7.1000A   | •    |
| STARTING MOTOR .....                                                                        | 7.3000A   | •    |
| HYDRAULIC MARINE GEAR .....                                                                 | 9.1000A   | •    |
| ENGINE MOUNTS .....                                                                         | 11.1000A  | •    |
| • STANDARD OPTION REFER TO OPTION PLATE.                                                    |           |      |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                 | GROUP NO. | TYPE |
|------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK                                             | 1.1000    | 31   |
| AIR BOX DRAINS THRU 6D-4948                                | 1.1000A   | 48   |
| AIR BOX DRAINS EFF. WITH 6D-4949                           | 1.1000A   | 62   |
| CYLINDER HEAD                                              | 1.2000    | 26   |
| ENGINE LIFTER BRACKET THRU 6D-14595                        | 1.2000A   | 48   |
| ENGINE LIFTER BRACKET EFF. WITH 6D-14596 AND THRU 6D-20152 | 1.2000A   | 114  |
| ENGINE LIFTER BRACKET EFF. WITH 6D-20153                   | 1.2000A   | 47   |
| CRANKSHAFT THRU 6D-11073                                   | 1.3000    | 22   |
| CRANKSHAFT EFF. WITH 6D-11074                              | 1.3000    | 44   |
| CRANKSHAFT FRONT COVER                                     | 1.3000A   | 66   |
| CRANKSHAFT PULLEY                                          | 1.3000C   | 171  |
| FLYWHEEL                                                   | 1.4000A   | 350  |
| FLYWHEEL HOUSING                                           | 1.5000A   | 369  |
| FLYWHEEL HOUSING ADAPTOR                                   | 1.5000B   | 28   |
| CONNECTING ROD AND PISTON THRU 6D-4479                     | 1.6000    | 35   |
| CONNECTING ROD AND PISTON EFF. WITH 6D-4480                | 1.6000    | 60   |
| CAMSHAFT AND GEAR TRAIN                                    | 1.7000    | 35   |
| VALVE OPERATING MECHANISM                                  | 1.8000    | 33   |
| ROCKER COVER                                               | 1.8000A   | 65   |
| FUEL INJECTOR                                              | 2.1000A   | 52   |
| FUEL PUMP THRU 6D-8894                                     | 2.2000    | 42   |
| FUEL PUMP EFF. WITH 6D-8895 AND THRU 6D-78448              | 2.2000    | 80   |
| FUEL PUMP EFF. WITH 6D-78449                               | 2.2000    | 144  |
| FUEL FILTER THRU 6D-8894                                   | 2.3000A   | 190  |
| FUEL FILTER EFF. WITH 6D-8895                              | 2.3000A   | 328  |
| FUEL MANIFOLD CONNECTIONS                                  | 2.4000    | 48   |
| FUEL LINES THRU 6D-8994                                    | 2.5000A   | 462  |
| FUEL LINES EFF. WITH 6D-8995 AND THRU 6D-27019             | 2.5000A   | 917  |
| FUEL LINES EFF. WITH 6D-27020                              | 2.5000A   | 1014 |
| MECHANICAL GOVERNOR                                        | 2.7000A   | 805  |
| INJECTOR CONTROLS                                          | 2.9000    | 110  |
| THROTTLE CONTROLS                                          | 2.9000A   | 695  |
| AIR SILENCER                                               | 3.2000A   | 29   |
| AIR INLET HOUSING                                          | 3.3000A   | 233  |
| BLOWER STD. EQUIP. PRIOR TO 6D-24898                       | 3.4000    | 73   |
| BLOWER                                                     | 3.4000    | 129  |
| BLOWER DRIVE SHAFT                                         | 3.4000A   | 17   |
| OIL PUMP                                                   | 4.1000A   | 51   |
| OIL DISTRIBUTION SYSTEM                                    | 4.1000B   | 303  |
| OIL PRESSURE REGULATOR                                     | 4.1000C   | 12   |
| OIL FILTER                                                 | 4.2000A   | 229  |
| OIL FILTER LINES                                           | 4.3000A   | 133  |
| OIL COOLER                                                 | 4.4000A   | 481  |
| OIL FILLER                                                 | 4.5000A   | 18   |
| DIPSTICK                                                   | 4.6000A   | 259  |
| OIL PAN                                                    | 4.7000A   | 231  |
| VENTILATING SYSTEM                                         | 4.8000A   | 264  |
| FRESH WATER PUMP THRU 6D-072                               | 5.1000    | 57   |
| FRESH WATER PUMP EFF. WITH 6D-073 AND THRU 6D-760          | 5.1000    | 67   |
| FRESH WATER PUMP EFF. WITH 6D-761 AND THRU 6D-66882        | 5.1000    | 71   |
| FRESH WATER PUMP EFF. WITH 6D-66883                        | 5.1000    | 159  |
| THERMOSTAT                                                 | 5.2000B   | 88   |
| WATER BY-PASS TUBE                                         | 5.2000C   | 222  |
| WATER CONNECTIONS                                          | 5.3000B   | 245  |
| HEAT EXCHANGER                                             | 5.5000A   | 380  |
| RAW WATER PUMP                                             | 5.6000A   | 40   |
| EXHAUST MANIFOLD                                           | 6.1000A   | 125  |
| EXHAUST MUFFLER CONNECTIONS                                | 6.2000A   | 187  |
| BATTERY CHARGING GENERATOR 12V., 25 AMP., NEG. RETURN      | 7.1000A   | 831  |
| STARTING MOTOR                                             | 7.3000A   | 205  |
| HYDRAULIC MARINE GEAR                                      | 9.1000A   | 593  |
| ENGINE MOUNTS                                              | 11.1000A  | 476  |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                                 | GROUP NO. | TYPE |
|--------------------------------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK THRU 6D-233419                                                              | 1.1000    | 31   |
| CYLINDER BLOCK EFF. WITH 6D-233420                                                         | 1.1000    | 146  |
| AIR BOX DRAINS                                                                             | 1.1000A   | 62   |
| CYLINDER HEAD                                                                              | 1.2000    | 26   |
| ENGINE LIFTER BRACKET THRU 6D-14545                                                        | 1.2000A   | 48   |
| ENGINE LIFTER BRACKET EFF. WITH 6D-14546 AND THRU 6D-20390                                 | 1.2000A   | 114  |
| ENGINE LIFTER BRACKET EFF. WITH 6D-20391, STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE | 1.2000A   | 48   |
| ENGINE LIFTER BRACKET                                                                      | 1.2000A   | •    |
| CRANKSHAFT THRU 6D-11073                                                                   | 1.3000    | 22   |
| CRANKSHAFT EFF. WITH 6D-11074                                                              | 1.3000    | 44   |
| CRANKSHAFT FRONT COVER THRU 6D-218704                                                      | 1.3000A   | 66   |
| CRANKSHAFT PULLEY                                                                          | 1.3000C   | •    |
| FLYWHEEL                                                                                   | 1.4000A   | •    |
| FLYWHEEL HOUSING                                                                           | 1.5000A   | •    |
| FLYWHEEL HOUSING ADAPTOR                                                                   | 1.5000B   | •    |
| CONNECTING ROD AND PISTON STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                 | 1.6000    | 68   |
| CONNECTING ROD AND PISTON                                                                  | 1.6000    | •    |
| CAMSHAFT AND GEAR TRAIN                                                                    | 1.7000    | 35   |
| BALANCE WEIGHT COVER EFF. WITH 6D-218705                                                   | 1.7000A   | 54   |
| VALVE OPERATING MECHANISM THRU 6D-196534                                                   | 1.8000    | 33   |
| VALVE OPERATING MECHANISM EFF. WITH 6D-196535                                              | 1.8000    | 164  |
| ROCKER COVER                                                                               | 1.8000A   | •    |
| FUEL INJECTOR                                                                              | 2.1000A   | •    |
| FUEL PUMP THRU 6D-8894                                                                     | 2.2000    | 43   |
| FUEL PUMP EFF. WITH 6D-8895 AND THRU 6D-78156                                              | 2.2000    | 72   |
| FUEL PUMP EFF. WITH 6D-78157 AND THRU 6D-188153                                            | 2.2000    | 131  |
| FUEL PUMP EFF. WITH 6D-188154 AND THRU 6D-196534                                           | 2.2000    | 181  |
| FUEL PUMP EFF. WITH 6D-196535, STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE            | 2.2000    | 191  |
| FUEL PUMP                                                                                  | 2.2000    | •    |
| FUEL FILTER THRU 6D-8894                                                                   | 2.3000A   | 190  |
| FUEL FILTER EFF. WITH 6D-8895 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE         | 2.3000A   | 328  |
| FUEL FILTER                                                                                | 2.3000A   | •    |
| FUEL MANIFOLD CONNECTIONS                                                                  | 2.4000    | 48   |
| FUEL LINES THRU 6D-8894                                                                    | 2.5000A   | 462  |
| FUEL LINES EFF. WITH 6D-8895 AND THRU 6D-85953                                             | 2.5000A   | 917  |
| FUEL LINES EFF. WITH 6D-85954 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE         | 2.5000A   | 1338 |
| FUEL LINES                                                                                 | 2.5000A   | •    |
| MECHANICAL GOVERNOR                                                                        | 2.7000A   | •    |
| INJECTOR CONTROLS THRU 6D-171833                                                           | 2.9000    | 122  |
| INJECTOR CONTROLS EFF. WITH 6D-171834 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE | 2.9000    | 273  |
| INJECTOR CONTROLS                                                                          | 2.9000    | •    |
| THROTTLE CONTROLS                                                                          | 2.9000A   | •    |
| AIR SILENCER                                                                               | 3.2000A   | •    |
| AIR INLET HOUSING                                                                          | 3.3000A   | •    |
| BLOWER THRU 6D-24898                                                                       | 3.4000    | 73   |
| BLOWER EFF. WITH 6D-24899 AND THRU 6D-158288                                               | 3.4000    | 127  |
| BLOWER EFF. WITH 6D-158289 AND THRU 6D-196534                                              | 3.4000    | 346  |
| BLOWER EFF. WITH 6D-196535 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE            | 3.4000    | 327  |
| BLOWER                                                                                     | 3.4000    | •    |
| BLOWER DRIVE SHAFT                                                                         | 3.4000A   | 17   |
| OIL PUMP THRU 6D-218704                                                                    | 4.1000A   | 51   |
| OIL PUMP EFF. WITH 6D-218705                                                               | 4.1000A   | 163  |
| OIL DISTRIBUTION SYSTEM                                                                    | 4.1000B   | •    |
| OIL PRESSURE REGULATOR                                                                     | 4.1000C   | 12   |
| OIL FILTER                                                                                 | 4.2000A   | •    |
| OIL FILTER LINES                                                                           | 4.3000A   | •    |
| OIL COOLER (ENGINE)                                                                        | 4.4000A   | •    |
| OIL COOLER (MARINE GEAR)                                                                   | 4.4000A   | •    |
| OIL FILLER                                                                                 | 4.5000A   | •    |
| DIPSTICK                                                                                   | 4.6000A   | •    |
| OIL PAN                                                                                    | 4.7000A   | •    |
| VENTILATING SYSTEM                                                                         | 4.8000A   | •    |
| FRESH WATER PUMP THRU 6D-66882                                                             | 5.1000    | 71   |
| FRESH WATER PUMP EFF. WITH 6D-66883                                                        | 5.1000    | 159  |
| THERMOSTAT                                                                                 | 5.2000B   | •    |
| WATER BY-PASS TUBE                                                                         | 5.2000C   | •    |
| WATER CONNECTIONS                                                                          | 5.3000B   | •    |

## DETROIT DIESEL 53 MPC ENGINES

5062-7000

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                                  | GROUP NO. | TYPE |
|---------------------------------------------------------------------------------------------|-----------|------|
| HEAT EXCHANGER .....                                                                        | 5.5000A   | •    |
| RAW WATER PUMP .....                                                                        | 5.6000A   | •    |
| EXHAUST MANIFOLD THRU 6D-67449 .....                                                        | 6.1000A   | 125  |
| EXHAUST MANIFOLD EFF. WITH 6D-67450 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE .. | 6.1000A   | 404  |
| EXHAUST MANIFOLD .....                                                                      | 6.1000A   | •    |
| EXHAUST MUFFLER CONNECTIONS STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE .....          | 6.2000A   | 187  |
| EXHAUST MUFFLER CONNECTIONS .....                                                           | 6.2000A   | •    |
| BATTERY CHARGING GENERATOR .....                                                            | 7.1000A   | •    |
| STARTING MOTOR .....                                                                        | 7.3000A   | •    |
| HYDRAULIC MARINE GEAR .....                                                                 | 9.1000A   | •    |
| ENGINE MOUNTS .....                                                                         | 11.1000A  | •    |
| • STANDARD OPTION REFER TO OPTION PLATE.                                                    |           |      |

## DETROIT DIESEL 53 MPC ENGINES

5062-7050

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                        | GROUP NO. | TYPE |
|-----------------------------------|-----------|------|
| CYLINDER BLOCK .....              | 1.1000    | 146  |
| AIR BOX DRAINS .....              | 1.1000A   | 62   |
| CYLINDER HEAD .....               | 1.2000    | 26   |
| ENGINE LIFTER BRACKET .....       | 1.2000A   | 48   |
| CRANKSHAFT .....                  | 1.3000    | 44   |
| CRANKSHAFT FRONT COVER .....      | 1.3000A   | 66   |
| CRANKSHAFT PULLEY .....           | 1.3000C   | 171  |
| FLYWHEEL .....                    | 1.4000A   | 325  |
| FLYWHEEL HOUSING .....            | 1.5000A   | 208  |
| FLYWHEEL HOUSING ADAPTOR .....    | 1.5000B   | 28   |
| CONNECTING ROD AND PISTON .....   | 1.6000    | 96   |
| CAMSHAFT AND GEAR TRAIN .....     | 1.7000    | 35   |
| VALVE OPERATING MECHANISM .....   | 1.8000    | 33   |
| ROCKER COVER .....                | 1.8000A   | 65   |
| FUEL INJECTOR .....               | 2.1000A   | 74   |
| FUEL PUMP .....                   | 2.2000    | 131  |
| FUEL FILTER .....                 | 2.3000A   | 694  |
| FUEL MANIFOLD CONNECTIONS .....   | 2.4000    | 48   |
| FUEL LINES .....                  | 2.5000A   | 1527 |
| MECHANICAL GOVERNOR .....         | 2.7000A   | 805  |
| INJECTOR CONTROLS .....           | 2.9000    | 273  |
| THROTTLE CONTROLS .....           | 2.9000A   | 695  |
| AIR INLET HOUSING .....           | 3.3000A   | 601  |
| BLOWER .....                      | 3.4000    | 129  |
| BLOWER DRIVE SHAFT .....          | 3.4000A   | 17   |
| OIL PUMP .....                    | 4.1000A   | 51   |
| OIL DISTRIBUTION SYSTEM .....     | 4.1000B   | 323  |
| OIL PRESSURE REGULATOR .....      | 4.1000C   | 14   |
| OIL FILTER .....                  | 4.2000A   | 356  |
| OIL COOLER .....                  | 4.4000A   | 850  |
| OIL COOLER (MARINE GEAR) .....    | 4.4000A   | 675  |
| OIL FILLER .....                  | 4.5000A   | 55   |
| DIPSTICK .....                    | 4.6000A   | 581  |
| OIL PAN .....                     | 4.7000A   | 231  |
| VENTILATING SYSTEM .....          | 4.8000A   | 264  |
| FRESH WATER PUMP .....            | 5.1000    | 159  |
| THERMOSTAT .....                  | 5.2000B   | 88   |
| WATER BY-PASS TUBE .....          | 5.2000C   | 401  |
| WATER CONNECTIONS .....           | 5.3000B   | 245  |
| HEAT EXCHANGER .....              | 5.5000A   | 380  |
| RAW WATER PUMP .....              | 5.6000A   | 54   |
| EXHAUST MANIFOLD .....            | 6.1000A   | 404  |
| EXHAUST MUFFLER CONNECTIONS ..... | 6.2000A   | 187  |
| BATTERY CHARGING GENERATOR .....  | 7.1000A   | 2019 |
| STARTING MOTOR .....              | 7.3000A   | 204  |
| HYDRAULIC MARINE GEAR .....       | 9.1000A   | 848  |
| ENGINE MOUNTING .....             | 11.1000A  | 633  |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                 | GROUP NO. | TYPE |
|------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK                                             | 1.1000    | 31   |
| AIR BOX DRAINS THRU 6D-4948                                | 1.1000A   | 48   |
| AIR BOX DRAINS EFF. WITH 6D-4949                           | 1.1000A   | 62   |
| CYLINDER HEAD                                              | 1.2000    | 26   |
| ENGINE LIFTER BRACKET THRU 6D-14545                        | 1.2000A   | 48   |
| ENGINE LIFTER BRACKET EFF. WITH 6D-14546 AND THRU 6D-20152 | 1.2000A   | 114  |
| ENGINE LIFTER BRACKET EFF. WITH 6D-21053                   | 1.2000A   | 47   |
| CRANKSHAFT THRU 6D-11073                                   | 1.3000    | 22   |
| CRANKSHAFT EFF. WITH 6D-11074                              | 1.3000    | 44   |
| CRANKSHAFT FRONT COVER                                     | 1.3000A   | 66   |
| CRANKSHAFT PULLEY                                          | 1.3000C   | 171  |
| FLYWHEEL                                                   | 1.4000A   | 350  |
| FLYWHEEL HOUSING                                           | 1.5000A   | 368  |
| FLYWHEEL HOUSING ADAPTOR                                   | 1.5000B   | 28   |
| CONNECTING ROD AND PISTON THRU 6D-4479                     | 1.6000    | 35   |
| CONNECTING ROD AND PISTON EFF. WITH 6D-4480                | 1.6000    | 60   |
| CAMSHAFT AND GEAR TRAIN                                    | 1.7000    | 35   |
| VALVE OPERATING MECHANISM                                  | 1.8000    | 33   |
| ROCKER COVER                                               | 1.8000A   | 65   |
| FUEL INJECTOR S45                                          | 2.1000A   | 52   |
| FUEL PUMP THRU 6D-8894                                     | 2.2000    | 43   |
| FUEL PUMP EFF. WITH 6D-8895                                | 2.2000    | 72   |
| FUEL FILTER THRU 6D-8894                                   | 2.3000A   | 190  |
| FUEL FILTER EFF. WITH 6D-8895                              | 2.3000A   | 328  |
| FUEL MANIFOLD CONNECTIONS                                  | 2.4000    | 48   |
| FUEL LINES THRU 6D-8894                                    | 2.5000A   | 462  |
| FUEL LINES EFF. WITH 6D-8895                               | 2.5000A   | 917  |
| MECHANICAL GOVERNOR                                        | 2.7000A   | 805  |
| INJECTOR CONTROLS                                          | 2.9000    | 110  |
| THROTTLE CONTROLS                                          | 2.9000A   | 695  |
| AIR SILENCER                                               | 3.2000A   | 29   |
| AIR INLET HOUSING                                          | 3.3000A   | 233  |
| BLOWER THRU 6D-24898                                       | 3.4000    | 73   |
| BLOWER EFF. WITH 6D-24899                                  | 3.4000    | 129  |
| BLOWER DRIVE SHAFT                                         | 3.4000A   | 17   |
| OIL PUMP                                                   | 4.1000A   | 51   |
| OIL DISTRIBUTION SYSTEM                                    | 4.1000B   | 303  |
| OIL PRESSURE REGULATOR                                     | 4.1000C   | 12   |
| OIL FILTER                                                 | 4.2000A   | 229  |
| OIL FILTER LINES                                           | 4.3000A   | 133  |
| OIL COOLER                                                 | 4.4000A   | 481  |
| OIL FILLER                                                 | 4.5000A   | 18   |
| DIPSTICK                                                   | 4.6000A   | 259  |
| OIL PAN                                                    | 4.7000A   | 231  |
| VENTILATING SYSTEM                                         | 4.8000A   | 264  |
| FRESH WATER PUMP THRU 6D-072                               | 5.1000    | 57   |
| FRESH WATER PUMP EFF. WITH 6D-073 AND THRU 6D-760          | 5.1000    | 67   |
| FRESH WATER PUMP EFF. WITH 6D-761                          | 5.1000    | 71   |
| THERMOSTAT                                                 | 5.2000B   | 88   |
| WATER BY-PASS TUBE                                         | 5.2000C   | 222  |
| WATER CONNECTIONS                                          | 5.3000B   | 245  |
| HEAT EXCHANGER                                             | 5.5000A   | 380  |
| RAW WATER PUMP                                             | 5.6000A   | 40   |
| EXHAUST MANIFOLD                                           | 6.1000A   | 125  |
| EXHAUST MUFFLER CONNECTIONS                                | 6.2000A   | 187  |
| BATTERY CHARGING GENERATOR                                 | 7.1000A   | 831  |
| STARTING MOTOR                                             | 7.3000A   | 204  |
| HYDRAULIC MARINE GEAR                                      | 9.1000A   | 598  |
| ENGINE MOUNTS                                              | 11.1000A  | 476  |



## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                         | GROUP NO. | TYPE |
|------------------------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK THRU 6D-233419                                                      | 1.1000    | 31   |
| CYLINDER BLOCK EFF. WITH 6D-233420                                                 | 1.1000    | 237  |
| AIR BOX DRAINS                                                                     | 1.1000A   | 62   |
| CYLINDER HEAD THRU 6D-217595                                                       | 1.2000    | 26   |
| CYLINDER HEAD EFF. WITH 6D-217596 AND THRU 6D-223461                               | 1.2000    | 151  |
| CYLINDER HEAD EFF. WITH 6D-223462                                                  | 1.2000    | 132  |
| ENGINE LIFTER BRACKET                                                              | 1.2000A   | •    |
| CRANKSHAFT                                                                         | 1.3000    | 44   |
| CRANKSHAFT FRONT COVER THRU 6D-218704                                              | 1.3000A   | 66   |
| CRANKSHAFT PULLEY                                                                  | 1.3000C   | •    |
| FLYWHEEL                                                                           | 1.4000A   | •    |
| FLYWHEEL HOUSING                                                                   | 1.5000A   | •    |
| CONNECTING ROD AND PISTON STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE         | 1.6000    | 181  |
| CONNECTING ROD AND PISTON                                                          | 1.6000    | •    |
| CAMSHAFT AND GEAR TRAIN                                                            | 1.7000    | 299  |
| BALANCE WEIGHT COVER EFF. WITH 6D-218705                                           | 1.7000A   | 54   |
| VALVE OPERATING MECHANISM THRU 6D-196534                                           | 1.8000    | 46   |
| VALVE OPERATING MECHANISM EFF. WITH 6D-196535                                      | 1.8000    | 165  |
| ROCKER COVER                                                                       | 1.8000A   | •    |
| FUEL INJECTOR                                                                      | 2.1000A   | •    |
| FUEL PUMP THRU 6D-188153                                                           | 2.2000    | 128  |
| FUEL PUMP EFF. WITH 6D-188184 AND THRU 6D-196534                                   | 2.2000    | 179  |
| FUEL PUMP EFF. WITH 6D-196535 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE | 2.2000    | 190  |
| FUEL PUMP                                                                          | 2.2000    | •    |
| FUEL FILTER                                                                        | 2.3000A   | •    |
| FUEL MANIFOLD CONNECTIONS                                                          | 2.4000    | 48   |
| FUEL LINES                                                                         | 2.5000A   | •    |
| MECHANICAL GOVERNOR                                                                | 2.7000A   | •    |
| INJECTOR CONTROLS STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                 | 2.9000    | 291  |
| INJECTOR CONTROLS                                                                  | 2.9000    | •    |
| THROTTLE CONTROLS                                                                  | 2.9000A   | •    |
| AIR SILENCER                                                                       | 3.2000A   | •    |
| AIR INLET HOUSING                                                                  | 3.3000A   | •    |
| BLOWER THRU 6D-196534                                                              | 3.4000    | 298  |
| BLOWER EFF. WITH 6D-196535 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE    | 3.4000    | 321  |
| BLOWER                                                                             | 3.4000    | •    |
| BLOWER DRIVE SHAFT                                                                 | 3.4000A   | 17   |
| TURBOCHARGER                                                                       | 3.5000A   | •    |
| OIL PUMP THRU 6D-218704                                                            | 4.1000A   | 51   |
| OIL PUMP EFF. WITH 6D-218705                                                       | 4.1000A   | 163  |
| OIL DISTRIBUTION SYSTEM                                                            | 4.1000B   | •    |
| OIL PRESSURE REGULATOR THRU 6D-218704                                              | 4.1000C   | 14   |
| OIL PRESSURE REGULATOR EFF. WITH 6D-218705                                         | 4.1000C   | 12   |
| OIL FILTER                                                                         | 4.2000A   | •    |
| OIL FILTER LINES                                                                   | 4.3000A   | •    |
| OIL COOLER                                                                         | 4.4000A   | •    |
| OIL COOLER-MARINE GEAR                                                             | 4.4000A   | •    |
| OIL FILLER                                                                         | 4.5000A   | •    |
| DIPSTICK                                                                           | 4.6000A   | •    |
| OIL PAN                                                                            | 4.7000A   | •    |
| VENTILATING SYSTEM                                                                 | 4.8000A   | •    |
| VENTILATING SYSTEM (ON ROCKER COVER)                                               | 4.8000A   | •    |
| FRESH WATER PUMP                                                                   | 5.1000    | 208  |
| THERMOSTAT                                                                         | 5.2000B   | •    |
| WATER BY-PASS TUBE                                                                 | 5.2000C   | •    |
| WATER CONNECTIONS                                                                  | 5.3000B   | •    |
| HEAT EXCHANGER                                                                     | 5.5000A   | •    |
| RAW WATER PUMP                                                                     | 5.6000A   | •    |
| EXHAUST MANIFOLD                                                                   | 6.1000A   | •    |
| BATTERY CHARGING GENERATOR                                                         | 7.1000A   | •    |
| STARTING MOTOR                                                                     | 7.3000A   | •    |
| HYDRAULIC MARINE GEAR                                                              | 9.1000A   | •    |
| ENGINE MOUNTS                                                                      | 11.1000A  | •    |

• STANDARD OPTION REFER TO OPTION PLATE.

## DETROIT DIESEL 53 MPC ENGINES

5062-7301

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                           | GROUP NO. | TYPE |
|--------------------------------------|-----------|------|
| CYLINDER BLOCK                       | 1.1000    | 237  |
| AIR BOX DRAINS                       | 1.1000A   | 62   |
| CYLINDER HEAD                        | 1.2000    | 132  |
| ENGINE LIFTER BRACKET                | 1.2000A   | •    |
| CRANKSHAFT                           | 1.3000    | 44   |
| CRANKSHAFT PULLEY                    | 1.3000C   | •    |
| FLYWHEEL                             | 1.4000A   | •    |
| FLYWHEEL HOUSING                     | 1.5000A   | •    |
| CONNECTING ROD AND PISTON            | 1.6000    | 288  |
| CAMSHAFT AND GEAR TRAIN              | 1.7000    | •    |
| BALANCE WEIGHT COVER                 | 1.7000A   | 54   |
| VALVE OPERATING MECHANISM            | 1.8000    | 181  |
| ROCKER COVER                         | 1.8000A   | •    |
| FUEL INJECTOR                        | 2.1000A   | •    |
| FUEL PUMP                            | 2.2000    | •    |
| FUEL FILTER                          | 2.3000A   | •    |
| FUEL MANIFOLD CONNECTIONS            | 2.4000    | 48   |
| FUEL LINES                           | 2.5000A   | •    |
| MECHANICAL GOVERNOR                  | 2.7000A   | •    |
| INJECTOR CONTROLS                    | 2.9000    | •    |
| THROTTLE CONTROLS                    | 2.9000A   | •    |
| AIR SILENCER                         | 3.2000A   | •    |
| AIR INLET HOUSING                    | 3.3000A   | •    |
| BLOWER                               | 3.4000    | 552  |
| BLOWER DRIVE SHAFT                   | 3.4000A   | 17   |
| TURBOCHARGER                         | 3.5000A   | •    |
| OIL PUMP                             | 4.1000A   | •    |
| OIL DISTRIBUTION SYSTEM              | 4.1000B   | •    |
| OIL FILTER                           | 4.2000A   | •    |
| OIL LINES                            | 4.3000A   | •    |
| OIL COOLER                           | 4.4000A   | •    |
| OIL COOLER MARINE GEAR               | 4.4000A   | •    |
| OIL FILLER                           | 4.5000A   | •    |
| DIPSTICK                             | 4.6000A   | •    |
| OIL PAN                              | 4.7000A   | •    |
| VENTILATING SYSTEM                   | 4.8000A   | •    |
| VENTILATING SYSTEM (ON ROCKER COVER) | 4.8000A   | •    |
| FRESH WATER PUMP                     | 5.1000    | 208  |
| THERMOSTAT                           | 5.2000B   | •    |
| WATER BYPASS TUBE                    | 5.2000C   | •    |
| WATER CONNECTIONS                    | 5.3000B   | •    |
| HEAT EXCHANGER                       | 5.5000A   | •    |
| RAW WATER PUMP                       | 5.6000A   | •    |
| EXHAUST MANIFOLD                     | 6.1000A   | •    |
| BATTERY CHARGING GENERATOR           | 7.1000A   | •    |
| STARTING MOTOR                       | 7.3000A   | •    |
| SHUT-OFF OR ALARM SYSTEM             | 7.4000C   | •    |
| MARINE GEAR                          | 9.1000A   | •    |
| ENGINE MOUNTING                      | 11.1000A  | •    |

• STANDARD OPTION REFER TO OPTION PLATE.

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                 | GROUP NO. | TYPE |
|----------------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK THRU 6D-233419                                              | 1.1000    | 31   |
| CYLINDER BLOCK EFF. WITH 6D-233420                                         | 1.1000    | 237  |
| AIR BOX DRAINS                                                             | 1.1000A   | 62   |
| CYLINDER HEAD THRU 6D-223461                                               | 1.2000    | 151  |
| CYLINDER HEAD EFF. WITH 6D-223462                                          | 1.2000    | 132  |
| ENGINE LIFTER BRACKET                                                      | 1.2000A   | •    |
| CRANKSHAFT                                                                 | 1.3000    | 44   |
| CRANKSHAFT PULLEY                                                          | 1.3000C   | •    |
| FLYWHEEL                                                                   | 1.4000A   | •    |
| FLYWHEEL HOUSING                                                           | 1.5000A   | •    |
| CONNECTING ROD AND PISTON                                                  | 1.6000    | •    |
| CAMSHAFT AND GEAR TRAIN                                                    | 1.7000    | •    |
| BALANCE WEIGHT COVER                                                       | 1.7000A   | 54   |
| VALVE OPERATING MECHANISM STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE | 1.8000    | 165  |
| VALVE OPERATING MECHANISM                                                  | 1.8000    | •    |
| ROCKER COVER                                                               | 1.8000A   | •    |
| FUEL INJECTOR                                                              | 2.1000A   | •    |
| FUEL PUMP                                                                  | 2.2000    | •    |
| FUEL FILTER                                                                | 2.3000A   | •    |
| FUEL MANIFOLD CONNECTIONS                                                  | 2.4000    | 48   |
| FUEL LINES                                                                 | 2.5000A   | •    |
| MECHANICAL GOVERNOR                                                        | 2.7000A   | •    |
| INJECTOR CONTROLS STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE         | 2.9000A   | 291  |
| INJECTOR CONTROLS                                                          | 2.9000    | •    |
| THROTTLE CONTROLS                                                          | 2.9000A   | •    |
| AIR INLET HOUSING                                                          | 3.3000A   | •    |
| BLOWER STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                    | 3.4000    | 434  |
| BLOWER                                                                     | 3.4000    | •    |
| BLOWER DRIVE SHAFT                                                         | 3.4000A   | 17   |
| TURBOCHARGER                                                               | 3.5000A   | •    |
| OIL PUMP STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                  | 4.1000A   | 163  |
| OIL PUMP                                                                   | 4.1000A   | •    |
| OIL DISTRIBUTION SYSTEM                                                    | 4.1000B   | •    |
| OIL PRESSURE REGULATOR STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE    | 4.1000C   | 12   |
| OIL PRESSURE REGULATOR                                                     | 4.1000C   | •    |
| OIL FILTER                                                                 | 4.2000A   | •    |
| OIL FILTER LINES                                                           | 4.3000A   | •    |
| OIL COOLER                                                                 | 4.4000A   | •    |
| OIL FILLER                                                                 | 4.5000A   | •    |
| DIPSTICK                                                                   | 4.6000A   | •    |
| OIL PAN                                                                    | 4.7000A   | •    |
| VENTILATING SYSTEM                                                         | 4.8000A   | •    |
| VENTILATING SYSTEM (ON ROCKER COVER)                                       | 4.8000A   | •    |
| FRESH WATER PUMP                                                           | 5.1000    | 208  |
| THERMOSTAT                                                                 | 5.2000B   | •    |
| WATER BY-PASS TUBE                                                         | 5.2000C   | •    |
| WATER CONNECTIONS                                                          | 5.3000B   | •    |
| RAW WATER PUMP                                                             | 5.6000A   | •    |
| EXHAUST MANIFOLD                                                           | 6.1000A   | •    |
| STARTING MOTOR                                                             | 7.3000A   | •    |
| HYDRAULIC MARINE GEAR                                                      | 9.1000A   | •    |
| ENGINE MOUNTING                                                            | 11.1000A  | •    |

• STANDARD OPTION REFER TO OPTION PLATE.

## DETROIT DIESEL 53 MPC ENGINES

5063-5000

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                                      | GROUP NO. | TYPE |
|-------------------------------------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                                 | 1.1000    | 31   |
| CYLINDER BLOCK                                                                                  | 1.1000    | •    |
| AIR BOX DRAINS STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                                 | 1.1000A   | 62   |
| AIR BOX DRAINS                                                                                  | 1.1000A   | •    |
| CYLINDER HEAD STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                                  | 1.2000    | 26   |
| CYLINDER HEAD                                                                                   | 1.2000    | •    |
| ENGINE LIFTER BRACKET STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                          | 1.2000A   | 44   |
| ENGINE LIFTER BRACKET                                                                           | 1.2000A   | •    |
| CRANKSHAFT STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                                     | 1.3000    | 44   |
| CRANKSHAFT                                                                                      | 1.3000    | •    |
| CRANKSHAFT FRONT COVER                                                                          | 1.3000A   | •    |
| CRANKSHAFT PULLEY                                                                               | 1.3000C   | •    |
| CRANKSHAFT PULLEY BELT                                                                          | 1.3000D   | •    |
| FLYWHEEL                                                                                        | 1.4000A   | •    |
| FLYWHEEL HOUSING                                                                                | 1.5000A   | •    |
| CONNECTING ROD AND PISTON STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                      | 1.6000    | 68   |
| CONNECTING ROD AND PISTON                                                                       | 1.6000    | •    |
| CAMSHAFT AND GEAR TRAIN                                                                         | 1.7000    | 35   |
| VALVE OPERATING MECHANISM THRU 6D-196534                                                        | 1.8000    | 33   |
| VALVE OPERATING MECHANISM EFF. WITH 6D-196535, STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE | 1.8000    | 164  |
| VALVE OPERATING MECHANISM                                                                       | 1.8000    | •    |
| ROCKER COVER                                                                                    | 1.8000A   | •    |
| FUEL INJECTOR                                                                                   | 2.1000A   | •    |
| FUEL PUMP                                                                                       | 2.2000    | •    |
| FUEL FILTER                                                                                     | 2.3000A   | •    |
| FUEL MANIFOLD CONNECTIONS                                                                       | 2.4000    | 48   |
| FUEL LINES                                                                                      | 2.5000A   | •    |
| MECHANICAL GOVERNOR                                                                             | 2.7000A   | •    |
| INJECTOR CONTROLS THRU 6D-171833                                                                | 2.9000    | 122  |
| INJECTOR CONTROLS EFF. WITH 6D-171834 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE      | 2.9000    | 273  |
| INJECTOR CONTROLS                                                                               | 2.9000    | •    |
| THROTTLE CONTROLS                                                                               | 2.9000A   | •    |
| AIR INLET HOUSING                                                                               | 3.3000A   | •    |
| BLOWER THRU 6D-196534                                                                           | 3.4000    | 127  |
| BLOWER EFF. WITH 6D-196535, STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE                    | 3.4000    | 325  |
| BLOWER                                                                                          | 3.4000    | •    |
| BLOWER DRIVE SHAFT                                                                              | 3.4000A   | 17   |
| OIL PUMP                                                                                        | 4.1000A   | 51   |
| OIL DISTRIBUTION SYSTEM                                                                         | 4.1000B   | •    |
| OIL PRESSURE REGULATOR                                                                          | 4.1000C   | •    |
| OIL FILTER                                                                                      | 4.2000A   | •    |
| OIL COOLER                                                                                      | 4.4000A   | •    |
| OIL FILLER                                                                                      | 4.5000A   | •    |
| DIPSTICK                                                                                        | 4.6000A   | •    |
| OIL PAN                                                                                         | 4.7000A   | •    |
| VENTILATING SYSTEM                                                                              | 4.8000A   | •    |
| FRESH WATER PUMP                                                                                | 5.1000    | •    |
| WATER OUTLET ELBOW                                                                              | 5.2000A   | •    |
| THERMOSTAT                                                                                      | 5.2000B   | •    |
| WATER BY-PASS TUBE THRU TO 6D-80610                                                             | 5.2000C   | 352  |
| WATER BY-PASS TUBE EFF. WITH 6D-80611                                                           | 5.2000C   | 360  |
| WATER BY-PASS TUBE                                                                              | 5.2000C   | •    |
| WATER CONNECTIONS                                                                               | 5.3000B   | •    |
| FAN                                                                                             | 5.4000A   | •    |
| EXHAUST MANIFOLD                                                                                | 6.1000A   | •    |
| EXHAUST MUFFLER CONNECTIONS                                                                     | 6.2000A   | •    |
| BATTERY CHARGING GENERATOR                                                                      | 7.1000A   | •    |
| STARTING MOTOR                                                                                  | 7.3000A   | •    |

• STANDARD OPTION REFER TO OPTION PLATE.

## DETROIT DIESEL 53 MPC ENGINES

5063-5001

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                    | GROUP NO. | TYPE |
|-----------------------------------------------|-----------|------|
| CYLINDER BLOCK                                | 1.1000    | 31   |
| AIR BOX DRAINS                                | 1.1000A   | 62   |
| CYLINDER HEAD                                 | 1.2000    | 26   |
| ENGINE LIFTER BRACKET                         | 1.2000A   | 44   |
| CRANKSHAFT                                    | 1.3000    | 44   |
| CRANKSHAFT FRONT COVER                        | 1.3000A   | 66   |
| CRANKSHAFT PULLEY                             | 1.3000C   | 171  |
| FLYWHEEL                                      | 1.4000A   | 350  |
| FLYWHEEL HOUSING                              | 1.5000A   | 350  |
| CONNECTING ROD AND PISTON                     | 1.6000    | 62   |
| CAMSHAFT AND GEAR TRAIN THRU 6D-196534        | 1.7000    | 35   |
| CAMSHAFT AND GEAR TRAIN EFF. WITH 6D-196535   | 1.7000    | 276  |
| VALVE OPERATING MECHANISM THRU 6D-196534      | 1.8000    | 33   |
| VALVE OPERATING MECHANISM EFF. WITH 6D-196535 | 1.8000    | 164  |
| ROCKER COVER                                  | 1.8000A   | 281  |
| FUEL INJECTOR                                 | 2.1000A   | 74   |
| FUEL PUMP THRU 6D-188153                      | 2.2000    | 138  |
| FUEL PUMP EFF. WITH 6D-188154                 | 2.2000    | 182  |
| FUEL FILTER                                   | 2.3000A   | 325  |
| FUEL MANIFOLD CONNECTIONS                     | 2.4000    | 48   |
| FUEL LINES                                    | 2.5000A   | 1327 |
| MECHANICAL GOVERNOR                           | 2.7000A   | 1565 |
| INJECTOR CONTROLS THRU 6D-171833              | 2.9000    | 122  |
| INJECTOR CONTROLS EFF. WITH 6D-171834         | 2.9000    | 273  |
| BLOWER THRU 6D-196534                         | 3.4000    | 127  |
| BLOWER EFF. WITH 6D-196535                    | 3.4000    | 325  |
| BLOWER DRIVE SHAFT                            | 3.4000A   | 17   |
| OIL PUMP                                      | 4.1000A   | 51   |
| OIL DISTRIBUTION SYSTEM THRU 6D-177378        | 4.1000B   | 324  |
| OIL DISTRIBUTION SYSTEM EFF. WITH 6D-177379   | 4.1000B   | 323  |
| OIL PRESSURE REGULATOR                        | 4.1000C   | 14   |
| OIL FILTER                                    | 4.2000A   | 252  |
| OIL COOLER                                    | 4.4000A   | 447  |
| OIL FILLER                                    | 4.5000A   | 18   |
| OIL FILLER (ON ROCKER COVER)                  | 4.5000A   | 86   |
| DIPSTICK THRU 6D-177378                       | 4.6000A   | 553  |
| DIPSTICK EFF. WITH 6D-177379                  | 4.6000A   | 581  |
| OIL PAN THRU 6D-177378                        | 4.7000A   | 606  |
| OIL PAN EFF. WITH 6D-177379                   | 4.7000A   | 231  |
| VENTILATING SYSTEM                            | 4.8000A   | 585  |
| FRESH WATER PUMP                              | 5.1000    | 153  |
| THERMOSTAT                                    | 5.2000B   | 88   |
| WATER BY-PASS TUBE                            | 5.2000C   | 360  |
| WATER CONNECTIONS                             | 5.3000B   | 242  |
| EXHAUST MANIFOLD                              | 6.1000A   | 162  |
| STARTING MOTOR                                | 7.3000A   | 204  |
| TACHOMETER DRIVE                              | 7.4000B   | 1    |
| HYDRAULIC MARINE GEAR                         | 9.1000A   | 926  |
| ENGINE MOUNTS THRU 6D-177378                  | 11.1000A  | 616  |
| ENGINE MOUNTS EFF. WITH 6D-177379             | 11.1000A  | 578  |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                   | GROUP NO. | TYPE |
|------------------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK THRU 6D-233419                                                | 1.1000    | 31   |
| CYLINDER BLOCK EFF. WITH 6D-233420                                           | 1.1000    | 146  |
| AIR BOX DRAINS                                                               | 1.1000A   | 62   |
| CYLINDER HEAD                                                                | 1.2000    | 26   |
| ENGINE LIFTER BRACKET STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE       | 1.2000A   | 44   |
| ENGINE LIFTER BRACKET                                                        | 1.2000A   | •    |
| CRANKSHAFT                                                                   | 1.3000    | 44   |
| CRANKSHAFT FRONT COVER                                                       | 1.3000A   | •    |
| CRANKSHAFT PULLEY                                                            | 1.3000C   | •    |
| CRANKSHAFT PULLEY BELT                                                       | 1.3000D   | •    |
| FLYWHEEL                                                                     | 1.4000A   | •    |
| FLYWHEEL HOUSING                                                             | 1.5000A   | •    |
| CONNECTING ROD AND PISTON STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE   | 1.6000    | 96   |
| CONNECTING ROD AND PISTON                                                    | 1.6000    | •    |
| CAMSHAFT AND GEAR TRAIN                                                      | 1.7000    | 35   |
| VALVE OPERATING MECHANISM                                                    | 1.8000    | 164  |
| ROCKER COVER                                                                 | 1.8000A   | •    |
| FUEL INJECTOR                                                                | 2.1000A   | •    |
| FUEL PUMP                                                                    | 2.2000    | •    |
| FUEL FILTER                                                                  | 2.3000A   | •    |
| FUEL MANIFOLD CONNECTIONS                                                    | 2.4000    | 48   |
| FUEL LINES                                                                   | 2.5000A   | •    |
| MECHANICAL GOVERNOR                                                          | 2.7000A   | •    |
| INJECTOR CONTROLS                                                            | 2.9000    | •    |
| AIR INLET HOUSING                                                            | 3.3000A   | •    |
| BLOWER THRU 6D-196534                                                        | 3.4000    | 127  |
| BLOWER EFF. WITH 6D-196535, STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE | 3.4000A   | 325  |
| BLOWER                                                                       | 3.4000    | •    |
| BLOWER DRIVE SHAFT                                                           | 3.4000A   | 17   |
| OIL PUMP                                                                     | 4.1000A   | •    |
| OIL DISTRIBUTION SYSTEM                                                      | 4.1000B   | •    |
| OIL PRESSURE REGULATOR                                                       | 4.1000C   | •    |
| OIL FILTER                                                                   | 4.2000A   | •    |
| OIL COOLER                                                                   | 4.4000A   | •    |
| OIL FILLER                                                                   | 4.5000A   | •    |
| DIPSTICK                                                                     | 4.6000A   | •    |
| OIL PAN                                                                      | 4.7000A   | •    |
| VENTILATING SYSTEM                                                           | 4.8000A   | •    |
| FRESH WATER PUMP                                                             | 5.1000    | 153  |
| WATER OUTLET ELBOW                                                           | 5.2000A   | •    |
| THERMOSTAT                                                                   | 5.2000B   | •    |
| WATER BY-PASS TUBE STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE          | 5.2000C   | 360  |
| WATER BY-PASS TUBE                                                           | 5.2000C   | •    |
| WATER CONNECTIONS                                                            | 5.3000B   | •    |
| FAN                                                                          | 5.4000A   | •    |
| EXHAUST MANIFOLD                                                             | 6.1000A   | •    |
| BATTERY CHARGING GENERATOR                                                   | 7.1000A   | •    |
| STARTING MOTOR                                                               | 7.3000A   | •    |
| AIR COMPRESSOR                                                               | 12.4000A  | •    |

• STANDARD OPTION REFER TO OPTION PLATE.

## DETROIT DIESEL 53 MPC ENGINES

5063-5030

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                        | GROUP NO. | TYPE |
|-----------------------------------|-----------|------|
| CYLINDER BLOCK                    | 1.1000    | 31   |
| AIR BOX DRAINS                    | 1.1000A   | 62   |
| CYLINDER HEAD                     | 1.2000    | 26   |
| ENGINE LIFTER BRACKET             | 1.2000A   | 44   |
| CRANKSHAFT THRU 6D-194048         | 1.3000    | 22   |
| CRANKSHAFT EFF. WITH 6D-19049     | 1.3000    | 44   |
| CRANKSHAFT FRONT COVER            | 1.3000A   | 65   |
| CRANKSHAFT PULLEY                 | 1.3000C   | 207  |
| CRANKSHAFT PULLEY BELT            | 1.3000D   | 164  |
| FLYWHEEL                          | 1.4000A   | 599  |
| FLYWHEEL HOUSING                  | 1.5000A   | 374  |
| CONNECTING ROD AND PISTON         | 1.6000    | 62   |
| CAMSHAFT AND GEAR TRAIN           | 1.7000    | 35   |
| VALVE OPERATING MECHANISM         | 1.8000    | 33   |
| ROCKER COVER                      | 1.8000A   | 64   |
| FUEL INJECTOR                     | 2.1000A   | 76   |
| FUEL PUMP                         | 2.2000    | 73   |
| FUEL FILTER                       | 2.3000A   | 358  |
| FUEL MANIFOLD CONNECTIONS         | 2.4000    | 48   |
| FUEL LINES                        | 2.5000A   | 786  |
| MECHANICAL GOVERNOR               | 2.7000A   | 944  |
| INJECTOR CONTROLS                 | 2.9000    | 110  |
| AIR CLEANER                       | 3.1000A   | 265  |
| AIR INLET HOUSING                 | 3.3000A   | 186  |
| BLOWER THRU 6D-24898              | 3.4000    | 73   |
| BLOWER EFF. WITH 6D-24899         | 3.4000    | 127  |
| BLOWER DRIVE SHAFT                | 3.4000A   | 17   |
| OIL PUMP                          | 4.1000A   | 51   |
| OIL DISTRIBUTION SYSTEM           | 4.1000B   | 300  |
| OIL PRESSURE REGULATOR            | 4.1000C   | 12   |
| OIL FILTER                        | 4.2000A   | 236  |
| OIL COOLER                        | 4.4000A   | 352  |
| OIL FILLER                        | 4.5000A   | 18   |
| DIPSTICK                          | 4.6000A   | 490  |
| OIL PAN                           | 4.7000A   | 353  |
| VENTILATING SYSTEM                | 4.8000A   | 248  |
| FRESH WATER PUMP                  | 5.1000    | 115  |
| WATER OUTLET ELBOW                | 5.2000A   | 86   |
| THERMOSTAT                        | 5.2000B   | 86   |
| WATER BY-PASS TUBE                | 5.2000C   | 243  |
| WATER CONNECTIONS                 | 5.3000B   | 167  |
| FAN                               | 5.4000A   | 632  |
| EXHAUST MANIFOLD                  | 6.1000A   | 254  |
| BATTERY CHARGING GENERATOR MOUNTS | 7.1000A   | 860  |
| TACHOMETER DRIVE                  | 7.4000B   | 131  |
| ENGINE MOUNTS                     | 11.1000A  | 380  |
| AIR COMPRESSOR                    | 12.4000A  | 466  |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                       | GROUP NO. | TYPE |
|----------------------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK .....                                                             | 1.1000    | 146  |
| AIR BOX DRAINS .....                                                             | 1.1000A   | 62   |
| CYLINDER HEAD .....                                                              | 1.2000    | 26   |
| ENGINE LIFTER BRACKET .....                                                      | 1.2000A   | 44   |
| CRANKSHAFT .....                                                                 | 1.3000    | 44   |
| CRANKSHAFT FRONT COVER .....                                                     | 1.3000A   | •    |
| CRANKSHAFT PULLEY .....                                                          | 1.3000C   | •    |
| CRANKSHAFT PULLEY BELT .....                                                     | 1.3000D   | •    |
| FLYWHEEL .....                                                                   | 1.4000A   | •    |
| FLYWHEEL HOUSING .....                                                           | 1.5000A   | •    |
| CONNECTING ROD AND PISTON STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE ..... | 1.6000    | 96   |
| CONNECTING ROD AND PISTON .....                                                  | 1.6000    | •    |
| CAMSHAFT AND GEAR TRAIN .....                                                    | 1.7000    | 109  |
| VALVE OPERATING MECHANISM .....                                                  | 1.8000    | 33   |
| ROCKER COVER .....                                                               | 1.8000A   | •    |
| FUEL INJECTOR .....                                                              | 2.1000A   | •    |
| FUEL PUMP .....                                                                  | 2.2000    | •    |
| FUEL FILTER .....                                                                | 2.3000A   | •    |
| FUEL MANIFOLD CONNECTIONS .....                                                  | 2.4000    | 48   |
| FUEL LINES .....                                                                 | 2.5000A   | •    |
| MECHANICAL GOVERNOR .....                                                        | 2.7000A   | •    |
| INJECTOR CONTROLS STD. EQUIP. PRIOR TO 6D-148163 .....                           | 2.9000    | 122  |
| INJECTOR CONTROLS .....                                                          | 2.9000    | •    |
| THROTTLE CONTROLS .....                                                          | 2.9000A   | •    |
| AIR INLET HOUSING .....                                                          | 3.3000A   | •    |
| BLOWER .....                                                                     | 3.4000    | 127  |
| BLOWER DRIVE SHAFT .....                                                         | 3.4000A   | 17   |
| OIL PUMP .....                                                                   | 4.1000A   | 51   |
| OIL DISTRIBUTION SYSTEM .....                                                    | 4.1000B   | •    |
| OIL PRESSURE REGULATOR .....                                                     | 4.1000C   | •    |
| OIL FILTER .....                                                                 | 4.2000A   | •    |
| OIL COOLER .....                                                                 | 4.4000A   | •    |
| OIL FILLER .....                                                                 | 4.5000A   | •    |
| DIPSTICK .....                                                                   | 4.6000A   | •    |
| OIL PAN .....                                                                    | 4.7000A   | •    |
| VENTILATING SYSTEM .....                                                         | 4.8000A   | •    |
| FRESH WATER PUMP .....                                                           | 5.1000    | •    |
| WATER OUTLET MANIFOLD .....                                                      | 5.2000A   | •    |
| THERMOSTAT .....                                                                 | 5.2000B   | •    |
| WATER BY-PASS TUBE .....                                                         | 5.2000C   | •    |
| WATER CONNECTIONS .....                                                          | 5.3000B   | •    |
| FAN .....                                                                        | 5.4000A   | •    |
| EXHAUST MANIFOLD .....                                                           | 6.1000A   | •    |
| EXHAUST MUFFLER CONNECTIONS .....                                                | 6.2000A   | •    |
| BATTERY CHARGING GENERATOR .....                                                 | 7.1000A   | •    |
| STARTING MOTOR .....                                                             | 7.3000A   | •    |
| AIR COMPRESSOR .....                                                             | 12.4000A  | •    |

• STANDARD OPTION REFER TO OPTION PLATE.



## DETROIT DIESEL 53 MPC ENGINES

5063-5080

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                       | GROUP NO. | TYPE |
|----------------------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK .....                                                             | 1.1000    | 146  |
| AIR BOX DRAINS .....                                                             | 1.1000A   | 62   |
| CYLINDER HEAD .....                                                              | 1.2000    | 26   |
| ENGINE LIFTER BRACKET .....                                                      | 1.2000A   | 44   |
| CRANKSHAFT .....                                                                 | 1.3000    | 44   |
| CRANKSHAFT FRONT COVER .....                                                     | 1.3000A   | 65   |
| CRANKSHAFT PULLEY .....                                                          | 1.3000C   | 207  |
| CRANKSHAFT PULLEY BELT .....                                                     | 1.3000D   | 111  |
| FLYWHEEL .....                                                                   | 1.4000A   | 872  |
| FLYWHEEL HOUSING .....                                                           | 1.5000A   | 393  |
| CONNECTING ROD AND PISTON STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE ..... | 1.6000    | 96   |
| CONNECTING ROD AND PISTON .....                                                  | 1.6000    | •    |
| CAMSHAFT AND GEAR TRAIN .....                                                    | 1.7000    | 35   |
| VALVE OPERATING MECHANISM .....                                                  | 1.8000    | 33   |
| ACCESSORY DRIVE .....                                                            | 1.7000B   | 292  |
| ROCKER COVER .....                                                               | 1.8000A   | 97   |
| FUEL INJECTOR .....                                                              | 2.1000A   | •    |
| FUEL PUMP .....                                                                  | 2.2000    | 128  |
| FUEL FILTER .....                                                                | 2.3000A   | 665  |
| FUEL MANIFOLD CONNECTIONS .....                                                  | 2.4000    | 48   |
| FUEL LINES .....                                                                 | 2.5000A   | 1478 |
| GOVERNOR, MECHANICAL .....                                                       | 2.7000A   | •    |
| INJECTOR CONTROLS .....                                                          | 2.9000    | 273  |
| AIR INLET HOUSING .....                                                          | 3.3000A   | 600  |
| BLOWER .....                                                                     | 3.4000    | 127  |
| BLOWER DRIVE SHAFT .....                                                         | 3.4000A   | 17   |
| OIL PUMP .....                                                                   | 4.1000A   | 51   |
| OIL DISTRIBUTION SYSTEM .....                                                    | 4.1000B   | •    |
| OIL PRESSURE REGULATOR .....                                                     | 4.1000C   | 14   |
| OIL FILTER .....                                                                 | 4.2000A   | 333  |
| OIL COOLER .....                                                                 | 4.4000A   | 489  |
| OIL FILLER .....                                                                 | 4.5000A   | 18   |
| DIPSTICK .....                                                                   | 4.6000A   | 831  |
| OIL PAN .....                                                                    | 4.7000A   | 332  |
| VENTILATING SYSTEM .....                                                         | 4.8000A   | 248  |
| FRESH WATER PUMP .....                                                           | 5.1000    | 153  |
| WATER OUTLET ELBOW .....                                                         | 5.2000A   | 86   |
| THERMOSTAT .....                                                                 | 5.2000B   | 159  |
| WATER BY-PASS TUBE .....                                                         | 5.2000C   | 360  |
| WATER CONNECTIONS .....                                                          | 5.3000B   | 242  |
| FAN .....                                                                        | 5.4000A   | 1345 |
| EXHAUST MANIFOLD .....                                                           | 6.1000A   | 483  |
| BATTERY CHARGING GENERATOR .....                                                 | 7.1000A   | 1858 |
| STARTING MOTOR .....                                                             | 7.3000A   | 204  |
| ENGINE MOUNTS .....                                                              | 11.1000A  | 650  |
| AIR COMPRESSOR .....                                                             | 12.4000A  | 1043 |

• STANDARD OPTION REFER TO OPTION PLATE.

## DETROIT DIESEL 53 MPC ENGINES

5063-5096

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                             | GROUP NO. | TYPE |
|------------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK THRU 6D-233419 .....                                    | 1.1000    | 31   |
| CYLINDER BLOCK EFF. WITH 6D-233420 .....                               | 1.1000    | 146  |
| AIR BOX DRAINS .....                                                   | 1.1000A   | 62   |
| CYLINDER HEAD .....                                                    | 1.2000    | 26   |
| ENGINE LIFTER BRACKET STD. EQUIP. PRIOR TO 6D-225137 .....             | 1.2000A   | 44   |
| CRANKSHAFT .....                                                       | 1.3000    | 44   |
| CRANKSHAFT FRONT COVER .....                                           | 1.3000A   | 65   |
| CRANKSHAFT PULLEY STD. EQUIP. PRIOR TO 6D-213393 .....                 | 1.3000C   | 207  |
| FLYWHEEL .....                                                         | 1.4000A   | 582  |
| FLYWHEEL HOUSING .....                                                 | 1.5000A   | 350  |
| CONNECTING ROD AND PISTON STD. EQUIP. PRIOR TO 6D-214999 .....         | 1.6000    | 96   |
| CAMSHAFT AND GEAR TRAIN .....                                          | 1.7000    | 276  |
| ACCESSORY DRIVE .....                                                  | 1.7000B   | 209  |
| VALVE OPERATING MECHANISM .....                                        | 1.8000    | 164  |
| ROCKER COVER STD. EQUIP. PRIOR TO 6D-225521 .....                      | 1.8000A   | 97   |
| FUEL INJECTOR .....                                                    | 2.1000A   | 74   |
| FUEL PUMP THRU 6D-205210 .....                                         | 2.2000    | 190  |
| FUEL PUMP EFF. WITH 6D-205211 AND STD. EQUIP. PRIOR TO 6D-220026 ..... | 2.2000    | 196  |
| FUEL FILTER .....                                                      | 2.3000A   | 319  |
| FUEL MANIFOLD CONNECTIONS .....                                        | 2.4000    | 48   |
| FUEL LINES .....                                                       | 2.5000A   | 1328 |
| MECHANICAL GOVERNOR .....                                              | 2.7000A   | 1574 |
| INJECTOR CONTROLS STD. EQUIP. PRIOR TO 6D-225620 .....                 | 2.9000    | 266  |
| BLOWER STD. EQUIP. PRIOR TO 6D-225521 .....                            | 3.4000    | 322  |
| BLOWER DRIVE SHAFT .....                                               | 3.4000A   | 17   |
| OIL PUMP .....                                                         | 4.1000A   | 51   |
| OIL DISTRIBUTION SYSTEM STD. EQUIP. PRIOR TO 6D-225471 .....           | 4.1000B   | 328  |
| OIL PRESSURE REGULATOR .....                                           | 4.1000C   | 14   |
| OIL FILTER STD. EQUIP. PRIOR TO 6D-225471 .....                        | 4.2000A   | 242  |
| OIL LINES STD. EQUIP. PRIOR TO 6D-225471 .....                         | 4.3000A   | 149  |
| OIL COOLER STD. EQUIP. PRIOR TO 6D-225471 .....                        | 4.4000A   | 489  |
| OIL FILLER CAP STD. EQUIP. PRIOR TO 6D-225471 .....                    | 4.5000A   | 18   |
| DIPSTICK STD. EQUIP. PRIOR TO 6D-224661 .....                          | 4.6000A   | 569  |
| OIL PAN STD. EQUIP. PRIOR TO 6D-225454 .....                           | 4.7000A   | 332  |
| VENTILATING SYSTEM STD. EQUIP. PRIOR TO 6D-225471 .....                | 4.8000A   | 248  |
| FRESH WATER PUMP .....                                                 | 5.1000    | 153  |
| WATER OUTLET MANIFOLD .....                                            | 5.2000A   | 67   |
| THERMOSTAT .....                                                       | 5.2000B   | 284  |
| WATER CONNECTIONS STD. EQUIP. PRIOR TO 6D-225471 .....                 | 5.3000B   | 242  |
| EXHAUST MANIFOLD STD. EQUIP. PRIOR TO 6D-225504 .....                  | 6.1000A   | 239  |
| EXHAUST MUFFLER STD. EQUIP. PRIOR TO 6D-225521 .....                   | 6.2000A   | 219  |
| BATTERY CHARGING GENERATOR STD. EQUIP. PRIOR TO 6D-225521 .....        | 7.1000A   | 2021 |
| STARTING MOTOR STD. EQUIP. PRIOR TO 6D-225521 .....                    | 7.3000A   | 206  |
| ENGINE MOUNTING STD. EQUIP. PRIOR TO 6D-225521 .....                   | 11.1000A  | 380  |
| AIR COMPRESSOR STD. EQUIP. PRIOR TO 6D-220026 .....                    | 12.4000A  | 801  |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                            | GROUP NO. | TYPE |
|-----------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK THRU 6D-233384                                         | 1.1000    | 59   |
| CYLINDER BLOCK EFF. WITH 6D-233385                                    | 1.1000    | 237  |
| AIR BOX DRAINS                                                        | 1.1000A   | 62   |
| CYLINDER HEAD STD. EQUIP. PRIOR TO 6D-222994                          | 1.2000    | 26   |
| ENGINE LIFTER BRACKET STD. EQUIP. PRIOR TO 6D-225236                  | 1.2000A   | 44   |
| CRANKSHAFT                                                            | 1.3000    | 44   |
| CRANKSHAFT FRONT COVER                                                | 1.3000A   | 118  |
| CRANKSHAFT PULLEY STD. EQUIP. PRIOR TO 6D-225471                      | 1.3000C   | 180  |
| CRANKSHAFT PULLEY BELT                                                | 1.3000D   | 245  |
| FLYWHEEL STD. EQUIP. PRIOR TO 6D-225454                               | 1.4000A   | 808  |
| FLYWHEEL HOUSING STD. EQUIP. PRIOR TO 6D-225236                       | 1.5000A   | 431  |
| CONNECTING ROD AND PISTON                                             | 1.6000    | 96   |
| CAMSHAFT AND GEAR TRAIN THRU 6D-196534                                | 1.7000    | 35   |
| CAMSHAFT AND GEAR TRAIN EFF. WITH 6D-196535                           | 1.7000    | 276  |
| VALVE OPERATING MECHANISM THRU 6D-196534                              | 1.8000    | 33   |
| VALVE OPERATING MECHANISM EFF. WITH 6D-196535                         | 1.8000    | 164  |
| ROCKER COVER STD. EQUIP. PRIOR TO 6D-225521                           | 1.8000A   | 279  |
| FUEL INJECTOR                                                         | 2.1000A   | 134  |
| FUEL PUMP                                                             | 2.2000    | 190  |
| FUEL FILTER STD. EQUIP. PRIOR TO 6D-225521                            | 2.3000A   | 316  |
| FUEL MANIFOLD-CONNECTIONS                                             | 2.4000    | 48   |
| FUEL LINES STD. EQUIP. PRIOR TO 6D-225521                             | 2.5000A   | 1410 |
| MECHANICAL GOVERNOR                                                   | 2.7000A   | 1566 |
| INJECTOR CONTROLS THRU 6D-164923                                      | 2.9000    | 266  |
| INJECTOR CONTROLS EFF. WITH 6D-164924; STD. EQUIP. PRIOR TO 6D-225620 | 2.9000    | 273  |
| AIR INLET HOUSING STD. EQUIP. PRIOR TO 6D-225521                      | 3.3000A   | 536  |
| BLOWER THRU 6D-196534                                                 | 3.4000    | 137  |
| BLOWER EFF. WITH 6D-196535; STD. EQUIP. PRIOR TO 6D-225521            | 3.4000    | 320  |
| BLOWER DRIVE SHAFT                                                    | 3.4000A   | 35   |
| OIL PUMP THRU 6D-218704                                               | 4.1000A   | 51   |
| OIL PUMP EFF. WITH 6D-218705                                          | 4.1000A   | 165  |
| OIL DISTRIBUTION SYSTEM STD. EQUIP. PRIOR TO 6D-225471                | 4.1000B   | 368  |
| OIL PRESSURE REGULATOR THRU 6D-218704                                 | 4.1000C   | 14   |
| OIL PRESSURE REGULATOR EFF. WITH 6D-218705                            | 4.1000C   | 12   |
| OIL FILTER STD. EQUIP. PRIOR TO 6D-225471                             | 4.2000A   | 242  |
| OIL FILTER LINES STD. EQUIP. PRIOR TO 6D-225471                       | 4.3000A   | 149  |
| OIL COOLER STD. EQUIP. PRIOR TO 6D-203401                             | 4.4000A   | 335  |
| OIL COOLER                                                            | 4.4000A   | 793  |
| OIL FILLER STD. EQUIP. PRIOR TO 6D-225471                             | 4.5000A   | 117  |
| DIPSTICK STD. EQUIP. PRIOR TO 6D-224661                               | 4.6000A   | 813  |
| OIL PAN STD. EQUIP. PRIOR TO 6D-225471                                | 4.7000A   | 638  |
| VENTILATING SYSTEM (ON ROCKER COVER) STD. EQUIP. PRIOR TO 6D-225521   | 4.8000A   | 585  |
| FRESH WATER PUMP                                                      | 5.1000    | 192  |
| THERMOSTAT STD. EQUIP. PRIOR TO 6D-225504                             | 5.2000B   | 277  |
| WATER CONNECTIONS STD. EQUIP. PRIOR TO 6D-225471                      | 5.3000B   | 167  |
| FAN                                                                   | 5.4000A   | 1189 |
| EXHAUST MANIFOLD STD. EQUIP. PRIOR TO 6D-225504                       | 6.1000A   | 465  |
| STARTING MOTOR STD. EQUIP. PRIOR TO 6D-225521                         | 7.3000A   | 260  |
| ENGINE MOUNTS STD. EQUIP. PRIOR TO 6D-225521                          | 11.1000A  | 625  |

## DETROIT DIESEL 53 MPC ENGINES

5063-5098

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                            | GROUP NO. | TYPE |
|-----------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK THRU 6D-233384                                         | 1.1000    | 59   |
| CYLINDER BLOCK EFF. WITH 6D-233385                                    | 1.1000    | 237  |
| AIR BOX DRAINS                                                        | 1.1000A   | 62   |
| CYLINDER HEAD                                                         | 1.2000    | 26   |
| ENGINE LIFTER BRACKET STD. EQUIP. PRIOR TO 6D-225236                  | 1.2000A   | 44   |
| CRANKSHAFT                                                            | 1.3000    | 44   |
| CRANKSHAFT FRONT COVER                                                | 1.3000A   | 118  |
| CRANKSHAFT PULLEY STD. EQUIP. PRIOR TO 6D-213393                      | 1.3000C   | 180  |
| CRANKSHAFT PULLEY BELT                                                | 1.3000D   | 245  |
| FLYWHEEL STD. EQUIP. PRIOR TO 6D-225454                               | 1.4000A   | 843  |
| FLYWHEEL HOUSING STD. EQUIP. PRIOR TO 6D-225236                       | 1.5000A   | 340  |
| CONNECTING ROD AND PISTON-STD. EQUIP. PRIOR TO 6D-214999              | 1.6000    | 68   |
| CAMSHAFT AND GEAR TRAIN THRU 6D-196534                                | 1.7000    | 35   |
| CAMSHAFT AND GEAR TRAIN EFF. WITH 6D-196535                           | 1.7000    | 276  |
| VALVE OPERATING MECHANISM THRU 6D-196534                              | 1.8000    | 33   |
| VALVE OPERATING MECHANISM EFF. WITH 6D-196535                         | 1.8000    | 164  |
| ROCKER COVER STD. EQUIP. PRIOR TO 6D-225521                           | 1.8000A   | 279  |
| FUEL INJECTOR THRU 6D-134977                                          | 2.1000A   | 75   |
| FUEL INJECTOR EFF. WITH 6D-134978                                     | 2.1000A   | 134  |
| FUEL PUMP                                                             | 2.2000    | 196  |
| FUEL FILTER STD. EQUIP. PRIOR TO 6D-225521                            | 2.3000A   | 316  |
| FUEL MANIFOLD CONNECTIONS                                             | 2.4000    | 48   |
| FUEL LINES STD. EQUIP. PRIOR TO 6D-225521                             | 2.5000A   | 1410 |
| MECHANICAL GOVERNOR                                                   | 2.7000A   | 1566 |
| INJECTOR CONTROLS THRU 6D-171833                                      | 2.9000    | 122  |
| INJECTOR CONTROLS EFF. WITH 6D-171834; STD. EQUIP. PRIOR TO 6D-225620 | 2.9000    | 273  |
| AIR INLET HOUSING STD. EQUIP. PRIOR TO 6D-225521                      | 3.3000A   | 535  |
| BLOWER THRU 6D-196534                                                 | 3.4000    | 137  |
| BLOWER EFF. WITH 6D-196535 STD. EQUIP. PRIOR TO 6D-225521             | 3.4000    | 320  |
| BLOWER DRIVE SHAFT                                                    | 3.4000A   | 35   |
| OIL PUMP THRU 6D-218704                                               | 4.1000A   | 51   |
| OIL PUMP EFF. WITH 6D-218705                                          | 4.1000A   | 165  |
| OIL DISTRIBUTION SYSTEM STD. EQUIP. PRIOR TO 6D-225471                | 4.1000B   | 368  |
| OIL PRESSURE REGULATOR THRU 6D-218704                                 | 4.1000C   | 14   |
| OIL PRESSURE REGULATOR EFF. WITH 6D-218705                            | 4.1000C   | 12   |
| OIL FILTER STD. EQUIP. PRIOR TO 6D-225471                             | 4.2000A   | 242  |
| OIL FILTER LINES STD. EQUIP. PRIOR TO 6D-225471                       | 4.3000A   | 149  |
| OIL COOLER STD. EQUIP. PRIOR TO 6D-225471                             | 4.4000A   | 489  |
| OIL FILLER STD. EQUIP. PRIOR TO 6D-225471                             | 4.5000A   | 117  |
| DIPSTICK THRU 6D-122861                                               | 4.6000A   | 414  |
| DIPSTICK EFF. WITH 6D-122862                                          | 4.6000A   | 813  |
| OIL PAN THRU 6D-112952                                                | 4.7000A   | 344  |
| OIL PAN EFF. WITH 6D-112953 AND THRU 6D-122861                        | 4.7000A   | 568  |
| OIL PAN EFF. WITH 6D-122662 STD. EQUIP. PRIOR TO 6D-225471            | 4.7000A   | 638  |
| VENTILATING SYSTEM (ON ROCKER COVER) STD. EQUIP. PRIOR TO 6D-225521   | 4.8000A   | 585  |
| FRESH WATER PUMP THRU 6D-117050                                       | 5.1000    | 108  |
| FRESH WATER PUMP EFF. WITH 6D-117051                                  | 5.1000    | 192  |
| WATER OUTLET ELBOW STD. EQUIP. PRIOR TO 6D-225504                     | 5.2000A   | 98   |
| THERMOSTAT STD. EQUIP. PRIOR TO 6D-225504                             | 5.2000B   | 153  |
| WATER BY-PASS TUBE THRU 6D-117050                                     | 5.2000C   | 212  |
| WATER BY-PASS TUBE EFF. WITH 6D-117051                                | 5.2000C   | 387  |
| WATER CONNECTIONS STD. EQUIP. PRIOR TO 6D-225471                      | 5.3000B   | 242  |
| FAN                                                                   | 5.4000A   | 1189 |
| EXHAUST MANIFOLD STD. EQUIP. PRIOR TO 6D-225504                       | 6.1000A   | 465  |
| STARTING MOTOR STD. EQUIP. PRIOR TO 6D-225521                         | 7.3000A   | 300  |
| ENGINE MOUNTS STD. EQUIP. PRIOR TO 6D-225521                          | 11.1000A  | 625  |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                | GROUP NO. | TYPE |
|---------------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK THRU 6D-233419                                             | 1.1000    | 31   |
| CYLINDER BLOCK EFF. WITH 6D-233420                                        | 1.1000    | 237  |
| AIR BOX DRAINS                                                            | 1.1000A   | 62   |
| CYLINDER HEAD                                                             | 1.2000    | 26   |
| ENGINE LIFTER BRACKET STD. EQUIP. PRIOR TO 6D-225236                      | 1.2000A   | 44   |
| CRANKSHAFT                                                                | 1.3000    | 44   |
| CRANKSHAFT FRONT COVER THRU 6D-218704                                     | 1.3000A   | 66   |
| CRANKSHAFT PULLEY STD. EQUIP. THRU 6D-213393                              | 1.3000C   | 171  |
| CRANKSHAFT PULLEY BELT THRU 6D-112952                                     | 1.3000D   | 172  |
| CRANKSHAFT PULLEY BELT EFF. WITH 6D-112953 AND STD. EQUIP. THRU 6D-213393 | 1.3000D   | 245  |
| FLYWHEEL STD. EQUIP. PRIOR TO 6D-225454                                   | 1.4000A   | 334  |
| FLYWHEEL HOUSING STD. EQUIP. PRIOR TO 6D-225236                           | 1.5000A   | 350  |
| CONNECTING ROD AND PISTON STD. EQUIP. THRU 6D-214999                      | 1.6000    | 68   |
| CONNECTING ROD AND PISTON                                                 | 1.6000    | 62   |
| CAMSHAFT AND GEAR TRAIN THRU 6D-196534                                    | 1.7000    | 35   |
| CAMSHAFT AND GEAR TRAIN EFF. WITH 6D-196535                               | 1.7000    | 276  |
| BALANCE WEIGHT COVER EFF. WITH 6D-218705                                  | 1.7000A   | 54   |
| VALVE OPERATING MECHANISM THRU 6D-196534                                  | 1.8000    | 33   |
| VALVE OPERATING MECHANISM EFF. WITH 6D-196535                             | 1.8000    | 164  |
| ROCKER COVER STD. EQUIP. PRIOR TO 6D-225521                               | 1.8000A   | 82   |
| FUEL INJECTOR STD. EQUIP. THRU 6D-93872                                   | 2.1000A   | 74   |
| FUEL PUMP THRU 6D-188153                                                  | 2.2000    | 138  |
| FUEL PUMP EFF. WITH 6D-188154 AND STD. EQUIP. PRIOR TO 6D-220648          | 2.2000    | 182  |
| FUEL FILTER STD. EQUIP. PRIOR TO 6D-225521                                | 2.3000A   | 325  |
| FUEL MANIFOLD CONNECTIONS                                                 | 2.4000    | 48   |
| FUEL LINES STD. EQUIP. PRIOR TO 6D-225521                                 | 2.5000A   | 1327 |
| MECHANICAL GOVERNOR STD. EQUIP. PRIOR TO 6D-93652                         | 2.7000A   | 1565 |
| INJECTOR CONTROLS THRU 6D-171833                                          | 2.9000    | 122  |
| INJECTOR CONTROLS EFF. WITH 6D-171834; STD. EQUIP. PRIOR TO 6D-225620     | 2.9000    | 273  |
| AIR INLET HOUSING THRU 6D-171132                                          | 3.3000A   | 186  |
| AIR INLET HOUSING EFF. WITH 6D-171133; STD. EQUIP. PRIOR TO 6D-225521     | 3.3000A   | 600  |
| BLOWER THRU 6D-196534                                                     | 3.4000    | 127  |
| BLOWER EFF. WITH 6D-196535 STD. EQUIP. PRIOR TO 6D-225521                 | 3.4000    | 325  |
| BLOWER DRIVE SHAFT                                                        | 3.4000A   | 17   |
| OIL PUMP THRU 6D-218704                                                   | 4.1000A   | 51   |
| OIL PUMP EFF. WITH 6D-218705                                              | 4.1000A   | 163  |
| OIL DISTRIBUTION SYSTEM STD. EQUIP. PRIOR TO 6D-225471                    | 4.1000B   | 368  |
| OIL PRESSURE REGULATOR THRU 6D-218704                                     | 4.1000C   | 14   |
| OIL PRESSURE REGULATOR EFF. WITH 6D-218705                                | 4.1000C   | 12   |
| OIL FILTER STD. EQUIP. PRIOR TO 6D-225471                                 | 4.2000A   | 242  |
| OIL FILTER LINES STD. EQUIP. PRIOR TO 6D-225471                           | 4.3000A   | 149  |
| OIL COOLER STD. EQUIP. PRIOR TO 6D-225471                                 | 4.4000A   | 447  |
| OIL FILLER CAP STD. EQUIP. PRIOR TO 6D-225471                             | 4.5000A   | 18   |
| DIPSTICK                                                                  | 4.6000A   | 770  |
| OIL PAN THRU 6D-93740                                                     | 4.7000A   | 344  |
| OIL PAN EFF. WITH 6D-93741; STD. EQUIP. PRIOR TO 6D-225471                | 4.7000A   | 568  |
| VENTILATING SYSTEM STD. EQUIP. PRIOR TO 6D-225471                         | 4.8000A   | 296  |
| FRESH WATER PUMP THRU 6D-112952                                           | 5.1000    | 160  |
| FRESH WATER PUMP EFF. WITH 6D-112953                                      | 5.1000    | 153  |
| WATER OUTLET ELBOW STD. EQUIP. PRIOR TO 6D-225504                         | 5.2000A   | 86   |
| THERMOSTAT STD. EQUIP. PRIOR TO 6D-225504                                 | 5.2000B   | 86   |
| WATER BY-PASS TUBE STD. EQUIP. PRIOR 6D-225504                            | 5.2000C   | 360  |
| WATER CONNECTIONS STD. EQUIP. PRIOR TO 6D-225471                          | 5.3000B   | 242  |
| FAN THRU 6D-164384                                                        | 5.4000A   | 981  |
| FAN EFF. WITH 6D-164385 AND STD. EQUIP. THRU 6D-213393                    | 5.4000A   | 1164 |
| EXHAUST MANIFOLD STD. EQUIP. PRIOR TO 6D-225504                           | 6.1000A   | 239  |
| EXHAUST MUFFLER CONNECTIONS STD. EQUIP. PRIOR TO 6D-225521                | 6.2000A   | 190  |
| BATTERY CHARGING GENERATOR MOUNTS STD. EQUIP. PRIOR TO 6D-225521          | 7.1000A   | 1348 |
| STARTING MOTOR THRU 6D-93127                                              | 7.3000A   | 260  |
| STARTING MOTOR EFF. WITH 6D-93128; STD. EQUIP. PRIOR TO 6D-225521         | 7.3000A   | 300  |
| TACHOMETER DRIVE STD. EQUIP. PRIOR TO 6D-93872                            | 7.4000B   | 1    |
| ENGINE MOUNTS STD. EQUIP. PRIOR TO 6D-225521                              | 11.1000A  | 380  |

## DETROIT DIESEL 53 MPC ENGINES

5063-5200

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                  | GROUP NO. | TYPE |
|---------------------------------------------|-----------|------|
| CYLINDER BLOCK                              | 1.1000    | 31   |
| AIR BOX DRAINS THRU 6D-4948                 | 1.1000A   | 48   |
| AIR BOX DRAINS EFF. WITH 6D-4949            | 1.1000A   | 62   |
| CYLINDER HEAD                               | 1.2000    | 26   |
| ENGINE LIFTER BRACKET                       | 1.2000A   | 44   |
| CRANKSHAFT THRU 6D-19048                    | 1.3000    | 22   |
| CRANKSHAFT EFF. WITH 6D-19049               | 1.3000    | 44   |
| CRANKSHAFT FRONT COVER                      | 1.3000A   | 65   |
| CRANKSHAFT PULLEY                           | 1.3000C   | 171  |
| CRANKSHAFT PULLEY BELT                      | 1.3000D   | 121  |
| FLYWHEEL                                    | 1.4000A   | 328  |
| FLYWHEEL HOUSING                            | 1.5000A   | 350  |
| CONNECTING ROD AND PISTON THRU 6D-4479      | 1.6000    | 35   |
| CONNECTING ROD AND PISTON EFF. WITH 6D-4480 | 1.6000    | 60   |
| CAMSHAFT AND GEAR TRAIN                     | 1.7000    | 35   |
| VALVE OPERATING MECHANISM                   | 1.8000    | 33   |
| ROCKER COVER                                | 1.8000A   | 64   |
| FUEL INJECTOR                               | 2.1000A   | 76   |
| FUEL PUMP                                   | 2.2000    | 73   |
| FUEL FILTER                                 | 2.3000A   | 358  |
| FUEL MANIFOLD CONNECTIONS                   | 2.4000    | 48   |
| FUEL LINES                                  | 2.5000A   | 1329 |
| MECHANICAL GOVERNOR                         | 2.7000A   | 514  |
| INJECTOR CONTROLS                           | 2.9000    | 110  |
| THROTTLE CONTROLS                           | 2.9000A   | 553  |
| AIR INLET HOUSING                           | 3.3000A   | 186  |
| BLOWER THRU 6D-24898                        | 3.4000    | 73   |
| BLOWER EFF. WITH 6D-24899                   | 3.4000    | 127  |
| BLOWER DRIVE SHAFT                          | 3.4000A   | 17   |
| OIL PUMP                                    | 4.1000A   | 51   |
| OIL DISTRIBUTION SYSTEM                     | 4.1000B   | 324  |
| OIL PRESSURE REGULATOR                      | 4.1000C   | 12   |
| OIL FILTER                                  | 4.2000A   | 236  |
| OIL COOLER                                  | 4.4000A   | 447  |
| OIL FILLER                                  | 4.5000A   | 18   |
| DIPSTICK                                    | 4.6000A   | 553  |
| OIL PAN                                     | 4.7000A   | 606  |
| VENTILATING SYSTEM                          | 4.8000A   | 248  |
| FRESH WATER PUMP THRU 6D-66896              | 5.1000    | 58   |
| FRESH WATER PUMP EFF. WITH 6D-66897         | 5.1000    | 153  |
| WATER OUTLET ELBOW                          | 5.2000A   | 86   |
| THERMOSTAT                                  | 5.2000B   | 86   |
| WATER BY-PASS TUBE THRU 6D-66896            | 5.2000C   | 164  |
| WATER BY-PASS TUBE EFF. WITH 6D-66897       | 5.2000C   | 360  |
| WATER CONNECTIONS                           | 5.3000B   | 242  |
| FAN                                         | 5.4000A   | 503  |
| EXHAUST MANIFOLD                            | 6.1000A   | 217  |
| EXHAUST MUFFLER CONNECTIONS                 | 6.2000A   | 234  |
| BATTERY CHARGING GENERATOR                  | 7.1000A   | 1857 |
| STARTING MOTOR                              | 7.3000A   | 204  |
| INSTRUMENTS                                 | 7.4000A   | 372  |

## DETROIT DIESEL 53 MPC ENGINES

5063-5296

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                        | GROUP NO. | TYPE |
|---------------------------------------------------|-----------|------|
| CYLINDER BLOCK                                    | 1.1000    | 31   |
| AIR BOX DRAINS                                    | 1.1000A   | 118  |
| CYLINDER HEAD                                     | 1.2000    | 26   |
| ENGINE LIFTER BRACKET                             | 1.2000A   | 44   |
| CRANKSHAFT                                        | 1.3000    | 44   |
| CRANKSHAFT FRONT COVER                            | 1.3000A   | 66   |
| CRANKSHAFT PULLEY                                 | 1.3000C   | 207  |
| CRANKSHAFT PULLEY BELT                            | 1.3000D   | 256  |
| FLYWHEEL                                          | 1.4000A   | 626  |
| FLYWHEEL HOUSING                                  | 1.5000A   | 350  |
| CONNECTING ROD AND PISTON                         | 1.6000    | 60   |
| CAMSHAFT AND GEAR TRAIN                           | 1.7000    | 35   |
| ACCESSORY DRIVE STD. EQUIP. PRIOR TO 6D-93872     | 1.7000B   | 225  |
| VALVE OPERATING MECHANISM                         | 1.8000    | 33   |
| ROCKER COVER                                      | 1.8000A   | 86   |
| FUEL INJECTOR STD. EQUIP. PRIOR TO 6D-93872       | 2.1000A   | 56   |
| FUEL PUMP STD. EQUIP. PRIOR TO 6D-93872           | 2.2000    | 132  |
| FUEL FILTER                                       | 2.3000A   | 362  |
| FUEL MANIFOLD CONNECTIONS                         | 2.4000    | 48   |
| FUEL LINES                                        | 2.5000A   | 845  |
| MECHANICAL GOVERNOR STD. EQUIP. PRIOR TO 6D-93872 | 2.7000A   | 889  |
| INJECTOR CONTROLS                                 | 2.9000    | 122  |
| AIR INLET HOUSING                                 | 3.3000A   | 186  |
| BLOWER                                            | 3.4000    | 127  |
| BLOWER DRIVE SHAFT                                | 3.4000A   | 17   |
| OIL PUMP                                          | 4.1000A   | 51   |
| OIL DISTRIBUTION SYSTEM                           | 4.1000B   | 330  |
| OIL PRESSURE REGULATOR                            | 4.1000C   | 12   |
| OIL FILTER                                        | 4.2000A   | 236  |
| OIL COOLER                                        | 4.4000A   | 463  |
| OIL FILLER                                        | 4.5000A   | 18   |
| DIPSTICK                                          | 4.6000A   | 484  |
| OIL PAN                                           | 4.7000A   | 274  |
| FRESH WATER PUMP                                  | 5.1000    | 160  |
| WATER OUTLET ELBOW                                | 5.2000A   | 86   |
| THERMOSTAT                                        | 5.2000B   | 86   |
| WATER BY-PASS TUBE                                | 5.2000C   | 360  |
| WATER CONNECTIONS                                 | 5.3000B   | 167  |
| FAN                                               | 5.4000A   | 646  |
| EXHAUST MANIFOLD                                  | 6.1000A   | 217  |
| BATTERY CHARGING GENERATOR                        | 7.1000A   | 1509 |
| STARTING MOTOR                                    | 7.3000A   | 270  |
| POWER TAKE-OFF SUPPORT                            | 8.1000A   | 275  |
| ENGINE MOUNTS                                     | 11.1000A  | 380  |
| COLD WEATHER STARTING AID                         | 12.6000C  | 45   |

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                     | GROUP NO. | TYPE |
|--------------------------------------------------------------------------------|-----------|------|
| CYLINDER BLOCK THRU 6D-233384                                                  | 1.1000    | 59   |
| CYLINDER BLOCK EFF. WITH 6D-233385                                             | 1.1000    | 237  |
| AIR BOX DRAINS THRU 6D-6427                                                    | 1.1000A   | 62   |
| AIR BOX DRAINS EFF. WITH 6D-6428 AND STD. EQUIP. PRIOR TO 6D-72628             | 1.1000A   | 71   |
| AIR BOX DRAINS                                                                 | 1.1000A   | 114  |
| CYLINDER HEAD                                                                  | 1.2000    | 26   |
| ENGINE LIFTER BRACKET STD. EQUIP. PRIOR TO 6D-225236                           | 1.2000A   | 44   |
| CRANKSHAFT THRU 6D-11886                                                       | 1.3000    | 22   |
| CRANKSHAFT EFF. WITH 6D-11887                                                  | 1.3000    | 44   |
| CRANKSHAFT FRONT COVER THRU 6D-6427                                            | 1.3000A   | 76   |
| CRANKSHAFT FRONT COVER EFF. WITH 6D-6428 AND STD. EQUIP. PRIOR TO 6D-157189    | 1.3000A   | 78   |
| FLYWHEEL STD. EQUIP. PRIOR TO 6D-225454                                        | 1.4000A   | 540  |
| FLYWHEEL HOUSING THRU 6D-5190                                                  | 1.5000A   | 308  |
| FLYWHEEL HOUSING EFF. WITH 6D-5191 STD. EQUIP. PRIOR TO 6D-225236              | 1.5000A   | 325  |
| CONNECTING ROD AND PISTON THRU 6D-5190                                         | 1.6000    | 60   |
| CONNECTING ROD AND PISTON EFF. WITH 6D-5191 AND STD. EQUIP. PRIOR TO 6D-214999 | 1.6000    | 63   |
| CAMSHAFT AND GEAR TRAIN THRU 6D-196534                                         | 1.7000    | 60   |
| CAMSHAFT AND GEAR TRAIN EFF. WITH 6D-196535                                    | 1.7000    | 277  |
| BALANCE WEIGHT COVER                                                           | 1.7000A   | 55   |
| VALVE OPERATING MECHANISM THRU 6D-196534                                       | 1.8000    | 46   |
| VALVE OPERATING MECHANISM EFF. WITH 6D-196535                                  | 1.8000    | 165  |
| ROCKER COVER THRU 6D-6427                                                      | 1.8000A   | 98   |
| ROCKER COVER EFF. WITH 6D-6428; STD. EQUIP. PRIOR TO 6D-225521                 | 1.8000A   | 110  |
| FUEL INJECTOR THRU 6D-5451                                                     | 2.1000A   | 59   |
| FUEL INJECTOR EFF. WITH 6D-5452; STD. EQUIP. THRU 6D-93872                     | 2.1000A   | 84   |
| FUEL INJECTOR                                                                  | 2.1000A   | 74   |
| FUEL PUMP THRU 6D-78448                                                        | 2.2000    | 66   |
| FUEL PUMP EFF. WITH 6D-78449 AND THRU 6D-188447                                | 2.2000    | 148  |
| FUEL PUMP EFF. WITH 6D-188448 AND THRU 6D-196534                               | 2.2000    | 179  |
| FUEL PUMP EFF. WITH 6D-196535 AND STD. EQUIP. PRIOR TO 6D-219888               | 2.2000    | 190  |
| FUEL FILTER THRU 6D-5451                                                       | 2.3000A   | 294  |
| FUEL FILTER EFF. WITH 6D-5452 AND STD. EQUIP. PRIOR TO 6D-122862               | 2.3000A   | 316  |
| FUEL MANIFOLD CONNECTIONS                                                      | 2.4000    | 48   |
| FUEL LINES THRU 6D-5451                                                        | 2.5000A   | 658  |
| FUEL LINES EFF. WITH 6D-5452 AND STD. EQUIP. PRIOR TO 6D-122862                | 2.5000A   | 695  |
| MECHANICAL GOVERNOR THRU 6D-33701                                              | 2.7000A   | 710  |
| MECHANICAL GOVERNOR EFF. WITH 6D-33702, STD. EQUIP. PRIOR TO 6D-83965          | 2.7000A   | 1566 |
| INJECTOR CONTROLS THRU 6D-171833                                               | 2.9000    | 122  |
| INJECTOR CONTROLS EFF. WITH 6D-171834; STD. EQUIP. PRIOR TO 6D-225620          | 2.9000    | 273  |
| AIR CLEANER ADAPTOR STD. EQUIP. PRIOR TO 6D-181888                             | 3.1000A   | 265  |
| AIR INLET HOUSING STD. EQUIP. PRIOR TO 6D-181888                               | 3.3000A   | 282  |
| BLOWER THRU 6D-36860                                                           | 3.4000    | 90   |
| BLOWER EFF. WITH 6D-36861 AND THRU 6D-196534                                   | 3.4000    | 137  |
| BLOWER EFF. WITH 6D-196535; STD. EQUIP. PRIOR TO 6D-225521                     | 3.4000    | 320  |
| BLOWER DRIVE SHAFT                                                             | 3.4000A   | 35   |
| OIL PUMP THRU 6D-218704                                                        | 4.1000A   | 51   |
| OIL PUMP EFF. WITH 6D-218705                                                   | 4.1000A   | 165  |
| OIL DISTRIBUTION SYSTEM THRU 6D-51944                                          | 4.1000B   | 275  |
| OIL DISTRIBUTION SYSTEM EFF. WITH 6D-51945; STD. EQUIP. PRIOR TO 6D-225471     | 4.1000B   | 368  |
| OIL PRESSURE REGULATOR STD. EQUIP. PRIOR TO 6D-157189                          | 4.1000C   | 14   |
| OIL PRESSURE REGULATOR STD. EQUIP. EFF. WITH 6D-218705                         | 4.1000C   | 12   |
| OIL FILTER STD. EQUIP. PRIOR TO 6D-210953                                      | 4.2000A   | 194  |
| OIL FILTER LINES STD. EQUIP. PRIOR TO 6D-210953                                | 4.3000A   | 114  |
| OIL COOLER THRU 6D-5451                                                        | 4.4000A   | 412  |
| OIL COOLER EFF. WITH 6D-5452; STD. EQUIP. PRIOR TO 6D-225521                   | 4.4000A   | 413  |
| OIL COOLER                                                                     | 4.4000A   | 1018 |
| OIL FILLER THRU 6D-6427                                                        | 4.5000A   | 55   |
| OIL FILLER EFF. WITH 6D-6428 STD. EQUIP. PRIOR TO 6D-225471                    | 4.5000A   | 74   |
| DIPSTICK THRU 6D-5957                                                          | 4.6000A   | 387  |
| DIPSTICK EFF. WITH 6D-5958 AND STD. EQUIP. PRIOR TO 6D-116684                  | 4.6000A   | 414  |
| OIL PAN THRU 6D-5957                                                           | 4.7000A   | 299  |
| OIL PAN EFF. WITH 6D-5958 AND THRU 6D-6427                                     | 4.7000A   | 319  |
| OIL PAN EFF. WITH 6D-6428 AND THRU 6D-22223                                    | 4.7000A   | 322  |
| OIL PAN EFF. WITH 6D-22224; STD. EQUIP. PRIOR TO 6D-225454                     | 4.7000A   | 344  |
| FRESH WATER PUMP THRU 6D-4617                                                  | 5.1000    | 93   |
| FRESH WATER PUMP EFF. WITH 6D-4618 AND THRU 6D-6434                            | 5.1000    | 94   |
| FRESH WATER PUMP EFF. WITH 6D-6435 AND THRU 6D-117050                          | 5.1000    | 108  |



## DETROIT DIESEL 53 MPC ENGINES

5063-5299

## STANDARD AND STANDARD OPTION EQUIPMENT

| GROUP NAME                                                                      | GROUP NO. | TYPE |
|---------------------------------------------------------------------------------|-----------|------|
| FRESH WATER PUMP EFF. WITH 6D-117051 .....                                      | 5.1000    | 192  |
| WATER OUTLET ELBOW .....                                                        | 5.2000A   | 98   |
| THERMOSTAT THRU 6D-6434 .....                                                   | 5.2000B   | 126  |
| THERMOSTAT EFF. WITH 6D-6435 AND THRU 6D-117050 .....                           | 5.2000B   | 153  |
| THERMOSTAT EFF. WITH 6D-117051 AND STD. EQUIP. PRIOR TO 6D-192789 .....         | 5.2000B   | 244  |
| THERMOSTAT .....                                                                | 5.2000B   | 153  |
| WATER BY-PASS TUBE THRU 6D-117050 .....                                         | 5.2000C   | 212  |
| WATER BY-PASS TUBE EFF. WITH 6D-117051 AND STD. EQUIP. PRIOR TO 6D-192789 ..... | 5.2000C   | 387  |
| WATER CONNECTIONS THRU 6D-5451 .....                                            | 5.3000B   | 217  |
| WATER CONNECTIONS EFF. WITH 6D-5452 AND STD. EQUIP. PRIOR TO 6D-192789 .....    | 5.3000B   | 219  |
| EXHAUST MANIFOLD STD. EQUIP. PRIOR TO 6D-225504 .....                           | 6.1000A   | 257  |
| STARTING MOTOR THRU 6D-6169 .....                                               | 7.3000A   | 206  |
| STARTING MOTOR EFF. WITH 6D-6170; STD. EQUIP. PRIOR TO 6D-225521 .....          | 7.3000A   | 300  |
| TACHOMETER DRIVE THRU 6D-6169 .....                                             | 7.4000B   | 323  |
| TACHOMETER DRIVE EFF. WITH 6D-6170 AND STD. EQUIP. PRIOR TO 6D-217823 .....     | 7.4000B   | 364  |
| AIR HEATER THRU 6D-22268 .....                                                  | 7.8000A   | 159  |
| AIR HEATER EFF. WITH 6D-22269 AND THRU 6D-76394 .....                           | 7.8000A   | 165  |
| AIR HEATER EFF. WITH 6D-76395 AND STD. EQUIP. PRIOR TO 6D-157189 .....          | 7.8000A   | 182  |
| ENGINE MOUNTS .....                                                             | 11.1000A  | 502  |