

## 1.8000 VALVE OPERATING MECHANISM

| PART   |           | TYPES                                      |               |    |        |    |        |             |             |             |  |
|--------|-----------|--------------------------------------------|---------------|----|--------|----|--------|-------------|-------------|-------------|--|
| NUMBER |           | NAME AND DESCRIPTION                       |               |    |        |    |        |             |             |             |  |
|        |           |                                            | 6<br>2        |    | 7<br>2 |    | 7<br>6 | 1<br>2<br>2 | 1<br>2<br>9 | 1<br>4<br>5 |  |
|        |           |                                            | 6<br>5        |    | 7<br>4 |    |        |             |             |             |  |
|        |           | 1.8265 - ROLLER SET, CAM FOLLOWER          |               |    |        |    |        |             |             |             |  |
|        |           | INCLUDES ROLLER WITH BUSHING AND PIN.      |               |    |        |    |        |             |             |             |  |
|        |           | 5195220 ROLLER SET (STANDARD) .....        | 12            | 18 | 9      | 12 | 9      | 12          | 9           | 9           |  |
|        |           | 1.8300 - GUIDE, CAM FOLLOWER               |               |    |        |    |        |             |             |             |  |
| 9A     | 5116125   | GUIDE .....                                | 4             | 6  | 3      | 4  | 3      | 4           | 3           | 3           |  |
| 9A     | 443603    | BOLT, 1/4"-20X3/4"(12.9001) .....          | 8             | 12 | 6      | 8  | 6      | 8           | 6           | 6           |  |
| 9A     | 103319    | LOCKWASHER, 1/4"(12.9200) .....            | 8             | 12 | 6      | 8  |        | 8           | 6           | 6           |  |
| 9A     | 103321    | LOCKWASHER, 3/8"(12.9200) .....            |               |    |        |    | 6      |             |             |             |  |
|        |           | 1.8310 - VALVE, EXHAUST                    |               |    |        |    |        |             |             |             |  |
| 9B     | 5195948   | VALVE, 2,3,4-53 (INCLUDES LOCKS) .....     |               |    | 6      | 8  |        |             |             |             |  |
| 9C     | 5199323   | VALVE, 3,4,6,8V53 (INCLUDES LOCKS) .....   |               | 24 |        |    |        | 16          | 12          | 12          |  |
|        | 5197176   | VALVE, 3,4-53 (INCLUDES LOCKS) .....       | 16            |    |        |    | 12     |             |             |             |  |
|        |           | 1.8320 - GUIDE, EXHAUST VALVE              |               |    |        |    |        |             |             |             |  |
|        |           | A VALVE GUIDE KIT INCLUDES 1-5131961       |               |    |        |    |        |             |             |             |  |
|        |           | GUIDE AND 1-5131973 SEAL INSTALLER         |               |    |        |    |        |             |             |             |  |
|        |           | (PKG.) CONSISTS OF 100 PIECES.             |               |    |        |    |        |             |             |             |  |
| 2A,9B  | 5119992   | GUIDE .....                                |               |    | 6      | 8  |        |             |             |             |  |
| 9C     | 5131961   | GUIDE .....                                | 16            | 24 |        | 16 | 12     | 16          | 12          | 12          |  |
|        | 5198529   | KIT, VALVE GUIDE AND SEAL .....            | 16            | 24 |        |    | 12     | 16          | 12          | 12          |  |
|        | 5131973   | SEAL, VALVE GUIDE (USE WITH 5131961) ..... | 16            | 24 |        |    | 12     | 16          | 12          | 12          |  |
|        | 5129920   | SEAL, VALVE GUIDE (USE WITH 5119992) ..... |               |    | 6      | 8  |        |             |             |             |  |
|        | 5199912   | INSTALLER, EXHAUST VALVE SEAL (4           |               |    |        |    |        |             |             |             |  |
|        |           | VALVE) .....                               | AR            | AR |        |    | AR     | AR          | AR          | AR          |  |
|        | 5199913   | INSTALLER, EXHAUST VALVE SEAL (2           |               |    |        |    |        |             |             |             |  |
|        |           | VALVE) .....                               |               |    | AR     | AR |        |             |             |             |  |
|        |           | 1.8330 - INSERT, EXHAUST VALVE             |               |    |        |    |        |             |             |             |  |
| 9B     | 5116196   | INSERT (STANDARD) .....                    |               |    | 6      |    |        |             |             |             |  |
| 9C     | 5116361   | INSERT (STANDARD) .....                    | 16            | 24 |        | 16 | 12     | 16          | 12          | 12          |  |
| 9C     | 5196752   | INSERT (.010" OVERSIZE ON O.D.) .....      | AR            | AR | AR     | AR | AR     | AR          | AR          | AR          |  |
|        |           | 1.8340 - SPRING, EXHAUST VALVE             |               |    |        |    |        |             |             |             |  |
| 9B     | 5116140   | SPRING .....                               |               |    | 6      | 8  |        |             |             |             |  |
|        | 5147424   | SPRING (BLUE AND WHITE STRIPE) .....       | <del>16</del> |    |        |    |        | 16          |             | 12          |  |
| 9C     | 5144019 * | SPRING (RED AND GREEN STRIPE) .....        | 16            | 24 |        |    | 12     |             | 12          |             |  |

## 1.8000 VALVE OPERATING MECHANISM

| PART<br>NUMBER | NAME AND DESCRIPTION                                                                                                                                                      | TYPES  |        |        |        |        |             |             |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|-------------|-------------|
|                |                                                                                                                                                                           | 6<br>2 | 6<br>5 | 7<br>2 | 7<br>4 | 7<br>6 | 1<br>2<br>2 | 1<br>2<br>9 |
|                | 1.8340 - SPRING, EXHAUST VALVE<br>(CONT'D)                                                                                                                                |        |        |        |        |        |             |             |
|                | * THRU 6D-60776 FOR ENGINES EQUIPPED<br>WITH 5126933 AND 5126934<br>CAMSHAFTS (STAMPED "V-7") OR<br>5135902 AND 5135903 CAMSHAFTS<br>(STAMPED "V").                       |        |        |        |        |        |             |             |
|                | <del>70 EFFECTIVE WITH 4D-112278 FOR ENGINES EQUIPPED<br/>WITH 5119075 CAMSHAFTS (STAMPED "V-7")</del>                                                                    |        |        |        |        |        |             |             |
|                | 1.8343 - BRIDGE, EXHAUST VALVE                                                                                                                                            |        |        |        |        |        |             |             |
| 9C             | 5135282 BRIDGE .....                                                                                                                                                      | 8      | 12     |        |        | 6      | 8           | 6           |
|                | 1.8350 - CAP, EXHAUST VALVE SPRING                                                                                                                                        |        |        |        |        |        |             |             |
| 9B             | 5111338 CAP .....                                                                                                                                                         |        |        | 6      | 8      |        |             |             |
| 9C             | 5123330 CAP .....                                                                                                                                                         | 16     | 24     |        |        | 12     | 16          | 12          |
|                | 1.8360 - SEAT, EXHAUST VALVE SPRING                                                                                                                                       |        |        |        |        |        |             |             |
| 9B             | 5116243 SEAT .....                                                                                                                                                        |        |        | 6      | 8      |        |             |             |
| 9C             | 5111467 * SEAT (.060" THICK) .....                                                                                                                                        | 16     | 24     |        |        | 12     | 16          | 12          |
|                | * USE WHEN REPLACING SEAT ONLY IN 4<br>VALVE UNITS THRU 3D-056, 4D-317 AND<br>UNITS EFFECTIVE WITH 3D-160, 4D-614<br>OR WHENEVER REPLACING VALVES IN<br>ANY 4 VALVE UNIT. |        |        |        |        |        |             |             |
|                | 1.8370 - LOCK, EXHAUST VALVE SPRING                                                                                                                                       |        |        |        |        |        |             |             |
| 9B             | 5111337 LOCK (HALVES) .....                                                                                                                                               |        |        | 12     | 16     |        |             |             |
| 9C             | 5116341 LOCK (HALVES) .....                                                                                                                                               | 32     | 48     |        |        | 24     | 32          | 24          |

## DETROIT DIESEL

53 MPC ENGINES

## 1.8000A ROCKER COVER

PART  
..FIG ..NUMBER ..NAME AND DESCRIPTION ..

TYPES

## 1.8450 - COVER, ROCKER

| FIG | NUMBER  | NAME AND DESCRIPTION                       | 7 | 7 | 8 | 8 | 8 | 8 | 9 | 10 | 10 | 10 | 10 |
|-----|---------|--------------------------------------------|---|---|---|---|---|---|---|----|----|----|----|
|     |         |                                            | 7 | 8 | 0 | 2 | 6 | 7 | 7 | 3  | 6  | 7  | 8  |
| 9D  | 5162981 | COVER, 4.8V53 (ITEM 4)(Y-2.46", Z-16.82")  | 1 |   |   |   |   |   |   |    |    |    |    |
| 9D  | 5109383 | COVER, 3.6V53 (ITEM 2)(Y-6")               |   | 1 |   |   |   |   | 1 |    |    |    |    |
| 9D  | 5132442 | COVER, 3.6V53 (PLAIN)                      |   | 1 |   |   |   |   | 1 |    |    |    |    |
| 9D  | 5128372 | COVER, 3.6V53 (ITEM 4)(Y-8.72", Z-11.42")  |   |   | 1 |   |   |   |   |    |    |    |    |
| 9D  | 5125356 | COVER, 3.6V53 (PLAIN)                      |   |   | 1 |   | 1 | 1 |   |    |    |    |    |
| 9D  | 5170503 | COVER, 3.6V53 (ITEM 3, TOP OUTLET) (Z-6")  |   |   |   | 1 |   |   |   |    |    |    |    |
| 9D  | 5125355 | COVER, 3.6V53 (ITEM 2)(Y-6")               |   |   |   | 1 | 1 | 1 |   |    |    |    |    |
| 9D  | 5130408 | COVER, 3.6V53 (ITEM 3)(Z-11.42")           |   |   |   |   | 1 |   |   |    |    |    |    |
| 9D  | 5100519 | COVER, 3.6V53 (ITEM 4)(Y-8.72", Z-6")      |   |   |   |   |   | 1 |   |    |    |    |    |
| 9D  | 5125352 | COVER, 4.8V53 (ITEM 2)(Y-6")               |   |   |   |   |   |   |   | 1  |    |    |    |
| 9D  | 5125353 | COVER, 4.8V53 (PLAIN)                      |   |   |   |   |   |   |   | 1  |    |    | 1  |
| 9D  | 5128373 | COVER, 4.8V53 (ITEM 4)(Z-14.12", Z-16.82") |   |   |   |   |   |   |   |    | 1  | 1  | 1  |
| 9D  | 5128432 | COVER, 4.8V53 (ITEM 3)(Z-16.82")           |   |   |   |   |   |   |   |    |    | 1  |    |

## 1.8455 - GASKET, ROCKER COVER

|    |         |                |   |   |   |   |   |   |   |   |   |   |   |
|----|---------|----------------|---|---|---|---|---|---|---|---|---|---|---|
| 9D | 5147506 | GASKET, 4.8V53 | 1 |   |   |   |   |   |   | 2 | 1 | 2 | 2 |
| 9D | 5147994 | GASKET, 3.6V53 |   | 2 | 2 | 2 | 2 | 2 | 2 |   |   |   |   |

## 1.8460 - BOLT, ROCKER COVER

|    |         |             |   |   |   |   |   |   |   |    |   |    |    |
|----|---------|-------------|---|---|---|---|---|---|---|----|---|----|----|
| 9D | 5100104 | SCREW ASSY. | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 12 | 6 | 12 | 12 |
|----|---------|-------------|---|---|---|---|---|---|---|----|---|----|----|

## 1.8000A ROCKER COVER

| PART                                   |           |                                                                                  | TYPES |   |   |   |   |    |   |   |   |    |    |   |   |   |   |  |
|----------------------------------------|-----------|----------------------------------------------------------------------------------|-------|---|---|---|---|----|---|---|---|----|----|---|---|---|---|--|
| FIG                                    | NUMBER    | NAME AND DESCRIPTION                                                             | 1     | 0 | 1 | 1 | 1 | 2  | 1 | 3 | 1 | 7  | 1  | 8 | 1 | 8 | 5 |  |
| 1.8450 - COVER, ROCKER                 |           |                                                                                  |       |   |   |   |   |    |   |   |   |    |    |   |   |   |   |  |
| 9D                                     | 5132442   | COVER, 3,6V53 (PLAIN)                                                            | 1     |   |   |   |   |    |   |   |   |    |    |   |   |   |   |  |
| 9D                                     | 5125356   | COVER, 3,6V53 (PLAIN)                                                            |       | 1 |   |   |   |    |   |   |   | 2  |    |   |   |   |   |  |
| 9D                                     | 5125355   | COVER, 3,6V53 (ITEM 2)(Y-6")                                                     |       |   |   |   |   |    |   |   |   |    |    |   |   | 1 |   |  |
| 9D                                     | 5125352   | COVER, 4,8V53 (ITEM 2)(Y-6")                                                     |       |   |   |   |   | 1  |   |   |   |    |    |   |   |   |   |  |
| 9D                                     | 5125353   | COVER, 4,8V53 (PLAIN)                                                            |       |   |   |   |   |    |   | 1 |   |    |    |   |   | 1 |   |  |
| 9D                                     | 5128373   | COVER, 4,8V53 (ITEM 4)(Z-14.12", Z-16.82")                                       |       |   |   |   |   |    |   |   |   |    |    |   |   | 1 |   |  |
| 9D                                     | 5128432   | COVER, 4,8V53 (ITEM 3)(Z-16.82")                                                 |       |   |   |   |   | 1  | 1 |   |   |    |    |   | 1 |   |   |  |
| 9D                                     | 5100526   | COVER, 3,6V53 (ITEM 2)(Y-6.02")                                                  | 1     |   |   |   |   |    |   |   |   |    |    |   |   |   |   |  |
|                                        | 5136616 # | COVER, 3,6V53                                                                    |       |   |   |   |   |    |   | 1 |   |    |    |   |   |   |   |  |
|                                        | 5127779   | COVER, 4,8V53 (ITEM 4)(Y-3.32", Z-6.02")                                         |       |   |   |   |   |    |   |   |   |    |    |   | 1 |   |   |  |
| 9D                                     | 5140525   | COVER ASSY., 3,6V53 (INCLUDES PIN AND OIL FILLER CAP)(ITEM 4)(Y-8.72", Z-11.42") |       | 1 |   |   |   |    |   |   |   |    |    |   |   |   |   |  |
|                                        | 5134106 @ | COVER ASSY., 3,6V53 (INC. PIN AND OIL FILLER CAP)(Y-8.72", Z-16.82")             |       |   |   | 1 |   |    |   |   |   |    |    |   |   |   |   |  |
| 9D                                     | 5145916 & | COVER ASSY., 3,6V53 (INCLUDES PIN AND OIL FILLER CAP)(ITEM 4)(Y-8.72", Z-11.42") |       |   |   |   | 1 |    |   |   |   |    |    |   |   |   |   |  |
| 9D                                     | 5145917   | COVER ASSY., 3,6V53                                                              |       |   |   |   |   | 1  |   |   |   |    |    |   |   |   |   |  |
| 9D                                     | 5140259   | CAP (W/CHAIN)(4.5010)                                                            |       | 1 | 1 |   | 2 |    |   |   |   |    |    |   |   |   |   |  |
|                                        | 108630    | PIN, 1/8"X7/8" COTTER (12.9250)                                                  |       | 1 | 1 |   | 1 |    |   |   |   |    |    |   |   |   |   |  |
|                                        |           | # INCLUDES ITEMS IN 4.5000A TYPE 80.                                             |       |   |   |   |   |    |   |   |   |    |    |   |   |   |   |  |
|                                        |           | * NOT SERVICED, USE 5135046 COVER PLUS (1) 5140259 CAP                           |       |   |   |   |   |    |   |   |   |    |    |   |   |   |   |  |
|                                        |           | @ NOT SERVICED, USE 5134069 COVER PLUS (1) 5140259 CAP                           |       |   |   |   |   |    |   |   |   |    |    |   |   |   |   |  |
|                                        |           | & NOT SERVICED, USE 5145916 COVER PLUS (1) 5120098 CAP                           |       |   |   |   |   |    |   |   |   |    |    |   |   |   |   |  |
| 1.8455 - GASKET, ROCKER COVER          |           |                                                                                  |       |   |   |   |   |    |   |   |   |    |    |   |   |   |   |  |
| 9D                                     | 5147506   | GASKET, 4,8V53                                                                   |       |   |   |   |   | 1  | 2 |   | 1 |    |    | 2 | 2 |   |   |  |
| 9D                                     | 5147994   | GASKET, 3,6V53                                                                   | 2     | 2 | 1 | 2 |   |    |   | 1 |   | 2  |    |   |   | 1 |   |  |
| 1.8460 - BOLT, ROCKER COVER            |           |                                                                                  |       |   |   |   |   |    |   |   |   |    |    |   |   |   |   |  |
| 9D                                     | 5100104   | SCREW ASSY.                                                                      | 8     | 8 | 4 | 8 | 6 | 12 | 4 | 6 | 8 | 12 | 12 |   |   | 4 |   |  |
| 1.8500 PLATE, OPTION & ACCESSORY NAME  |           |                                                                                  |       |   |   |   |   |    |   |   |   |    |    |   |   |   |   |  |
| 5178347 RETAINER, ACCESSORY NAME PLATE |           |                                                                                  |       |   |   |   | 1 |    |   |   |   |    |    |   |   |   |   |  |

# GROUP NOMENCLATURE

## 1.0000

### ENGINE (less major assemblies)

- 1.1000 Cylinder Block
- 1.1000A Air Box Drains
- 1.2000 Cylinder Head
- 1.2000A Engine Lifter Bracket
- 1.3000 Crankshaft, Oil Seals and stabilizers
- 1.3000A Crankshaft Front Cover
- 1.3000B Vibration Damper
- 1.3000C Crankshaft Pulley
- 1.3000D Crankshaft Pulley Belt
- 1.4000A Flywheel
- 1.5000A Flywheel Housing
- 1.5000B Flywheel Housing Adaptor
- 1.6000 Connecting Rod and Piston
- 1.7000 Camshaft and Gear Train
- 1.7000A Balance Weight Cover
- 1.7000B Accessory Drive
- 1.8000 Valve and Injector Operating Mechanism
- 1.8000A Rocker Cover

## 2.0000

### FUEL SYSTEM

- 2.1000A Fuel Injector
- 2.2000 Fuel Pump
- 2.2000A Fuel Pump Drain
- 2.3000A Fuel Filter
- 2.4000 Fuel Manifold and/or Connections
- 2.4000A Dual Fuel System
- 2.5000A Fuel Lines and Fuel Cooler
- 2.6000A Fuel Tank
- 2.7000A Mechanical Governor
- 2.8000A Hydraulic Governor
- 2.9000 Injector Controls
- 2.9000A Throttle Controls

## 3.0000

### AIR SYSTEM

- 3.1000A Air Cleaner and/or Adaptor
- 3.2000A Air Silencer
- 3.3000A Air Inlet Housing
- 3.4000 Blower
- 3.4000A Blower Drive Shaft
- 3.4000B Blower End Plate Cover
- 3.5000A Turbocharger and Intercooler

## 4.0000

### LUBRICATING SYSTEM

- 4.1000A Oil Pump
- 4.1000B Oil Distribution System
- 4.1000C Oil Pressure Regulator
- 4.2000A Oil Filter
- 4.3000A Oil Filter Lines
- 4.4000A Oil Cooler and Marine Gear Lines
- 4.5000A Oil Filler
- 4.6000A Dipstick
- 4.7000A Oil Pan
- 4.8000A Ventilating System

## 5.0000

### COOLING SYSTEM

- 5.1000 Fresh Water Pump
- 5.1000A Fresh Water Pump Cover
- 5.2000A Water Outlet Manifold and/or Elbow
- 5.2000B Thermostat
- 5.2000C Water By-pass Tube
- 5.3000A Radiator
- 5.3000B Water Connections
- 5.4000A Fan
- 5.4000B Fan Shroud
- 5.5000A Heat Exchanger or Keel Cooling
- 5.6000A Raw Water Pump
- 5.7000A Water Filter

## 6.0000

### EXHAUST SYSTEM

- 6.1000A Exhaust Manifold
- 6.2000A Exhaust Muffler and/or Connections

## 7.0000

### ELECTRICAL—INSTRUMENTS

- 7.1000A Battery Charging Generator
- 7.2000A Battery Cables
- 7.2000B Automatic Starting
- 7.3000A Starting Motor
- 7.4000A Instruments
- 7.4000B Tachometer Drive
- 7.4000C Shut-off, Alarm and O.S. Governor
- 7.5000A Power Generator
- 7.6000A Control Cabinet
- 7.7000A Wiring Harness
- 7.8000A Air Heater
- 7.10000A Hydraulic Governor Solenoid

## 8.0000

### POWER TAKE-OFF

- 8.1000A Power Take-off and/or Clutch
- 8.3000A Torque Converter
- 8.3000B Transmission Lines

## 9.0000

### TRANSMISSION AND PROPULSION

- 9.1000A Hydraulic Marine Gear
- 9.2000A Reverse and Reduction Gear (mechanical)
- 9.3000A Power Transfer Gear
- 9.4000 Transmission—Highway
- 9.7000 Transmission—Off-highway
- 9.9000 Transmission—Rail Car

## 10.0000

### SHEET METAL

- 10.1000A Engine Hood

## 11.0000

### ENGINE MOUNTING

- 11.1000A Engine Mounting and Base

## 12.0000

### MISCELLANEOUS

- 12.2000A Bilge Pump
- 12.3000A Vacuum Pump
- 12.4000A Air Compressor
- 12.5000A Hydraulic Pump
- 12.6000A Gasoline Starter
- 12.6000B Air Starter
- 12.6000C Cold Weather Starting Aid
- 12.6000D Hydraulic Starter
- 12.6000E Hydraulic Starter Accessories
- 12.8000A Supplies
- 12.8000B Fabrication Material
- 12.8000C Service Kits

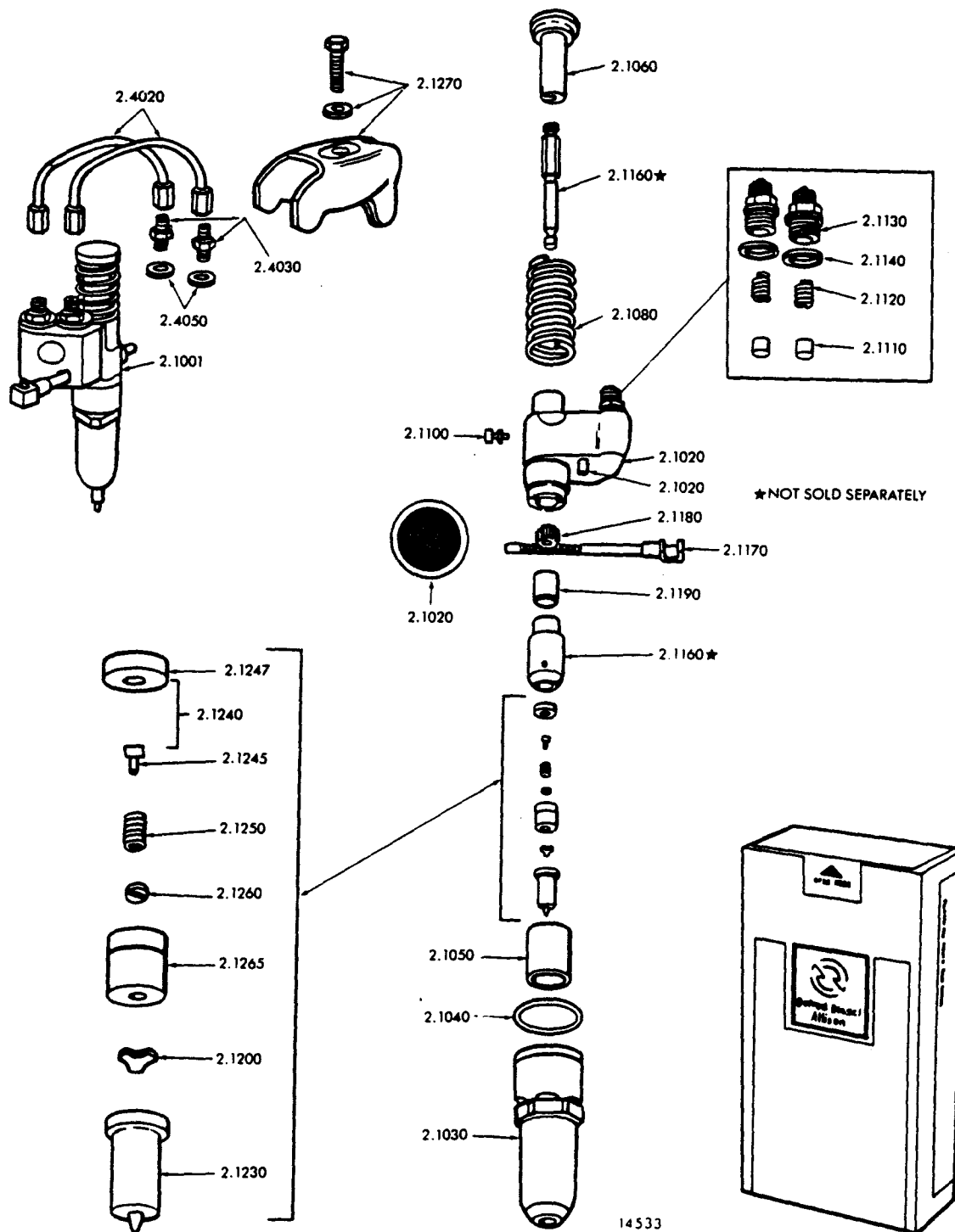


FIG. 1A FUEL INJECTOR

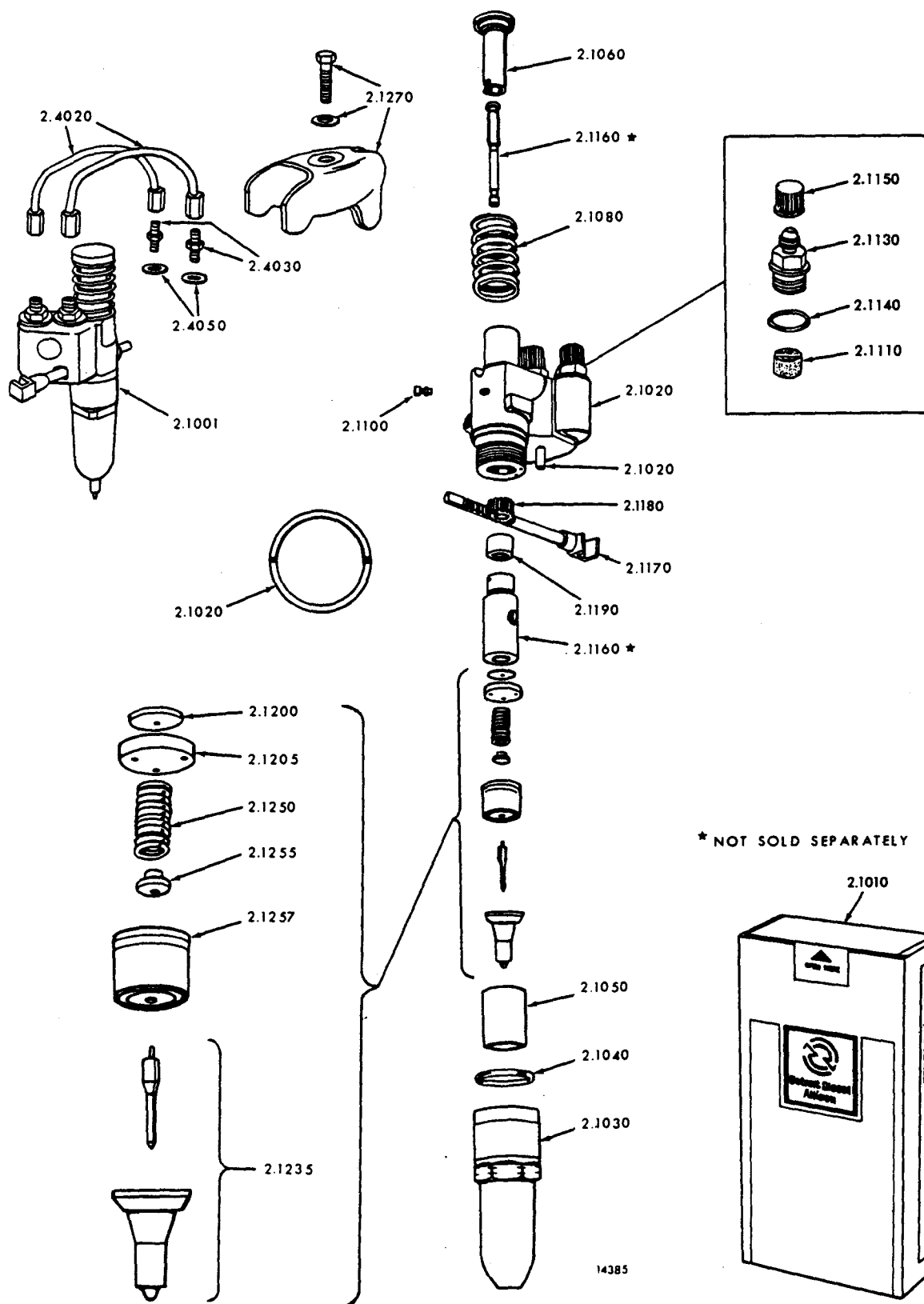


FIG. 1B FUEL INJECTOR

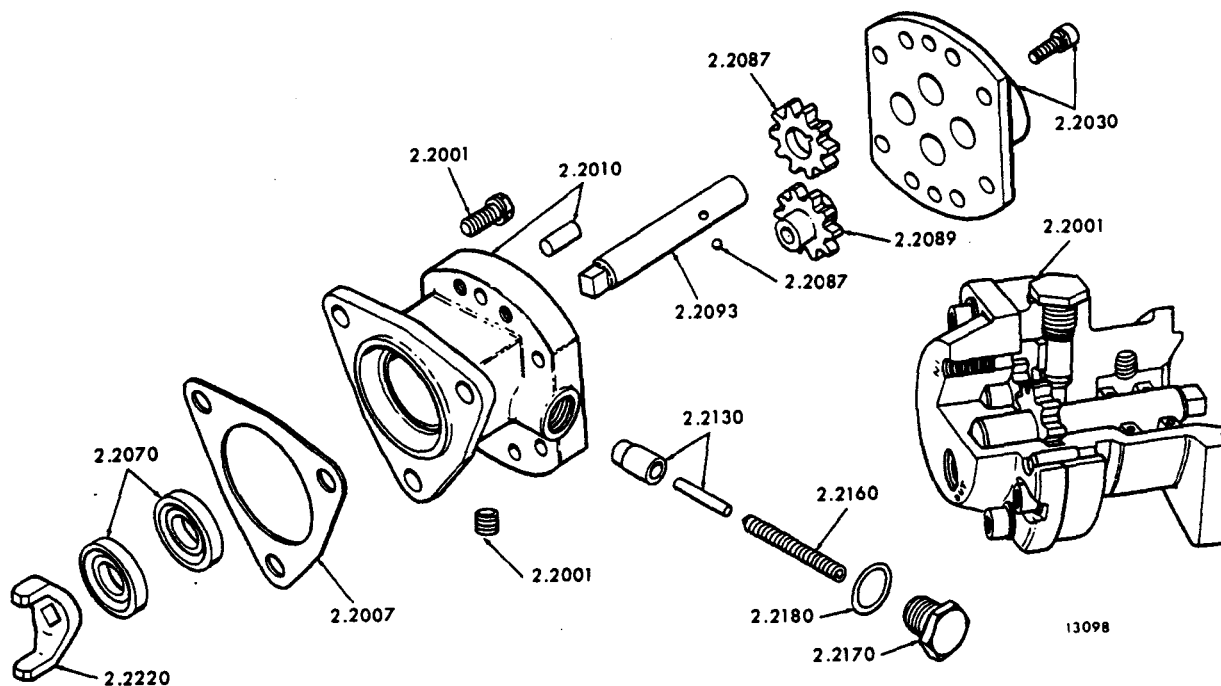


FIG. 2A FUEL PUMP

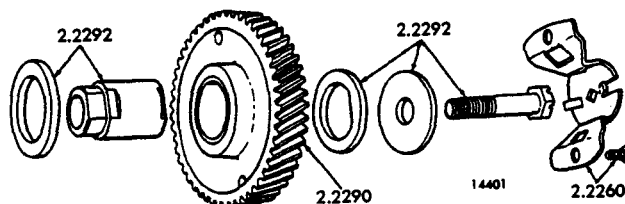


FIG. 2B FUEL PUMP DRIVE

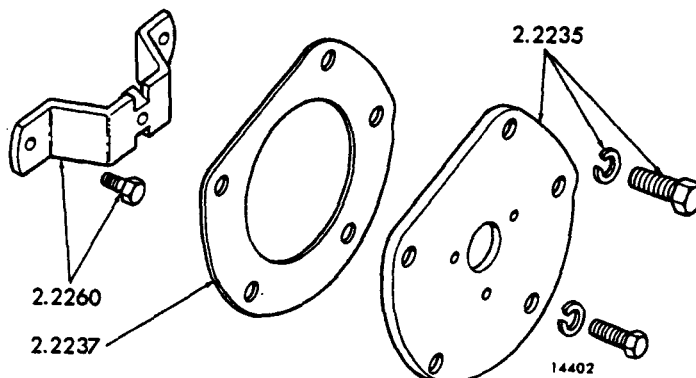


FIG. 2C - FUEL PUMP DRIVE

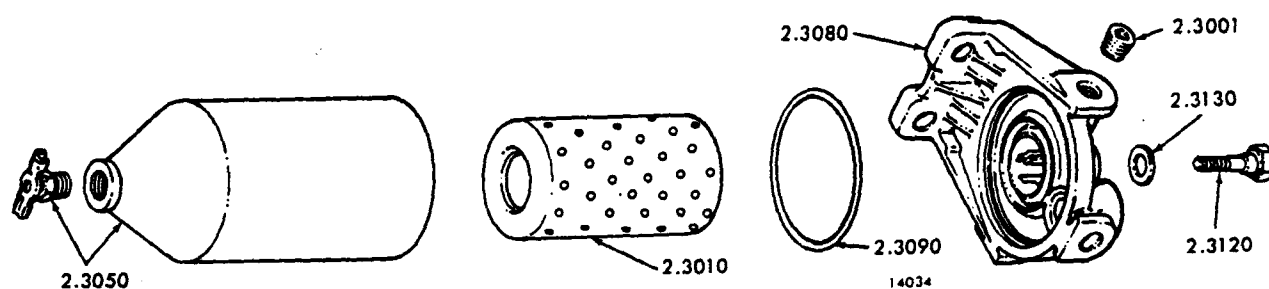


FIG. 3A FUEL STRAINER (Cotton Wound Element)

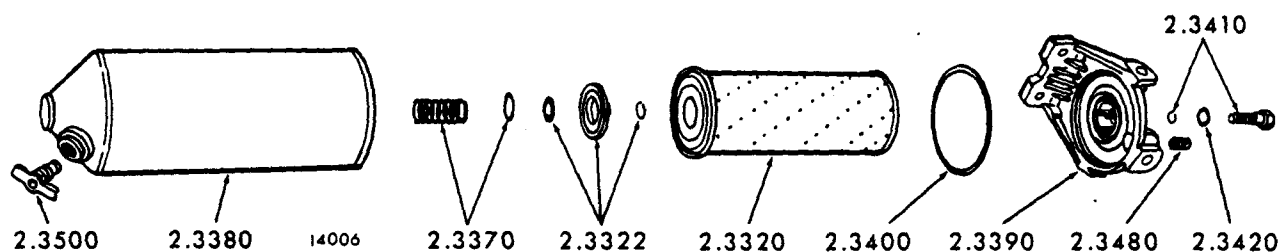


FIG. 3B FUEL FILTER (Canister Type Element)

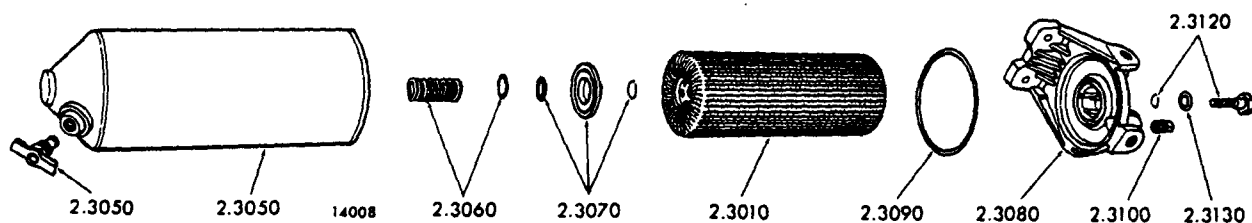


FIG. 3C FUEL STRAINER (Stock Type Element)

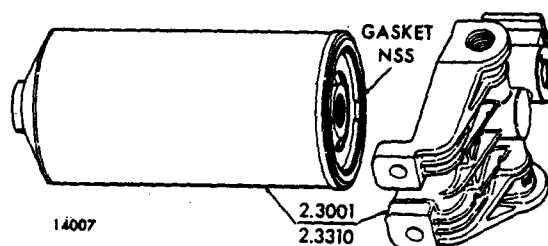


FIG. 3D FUEL STRAINER, FUEL FILTER (Spin-On)

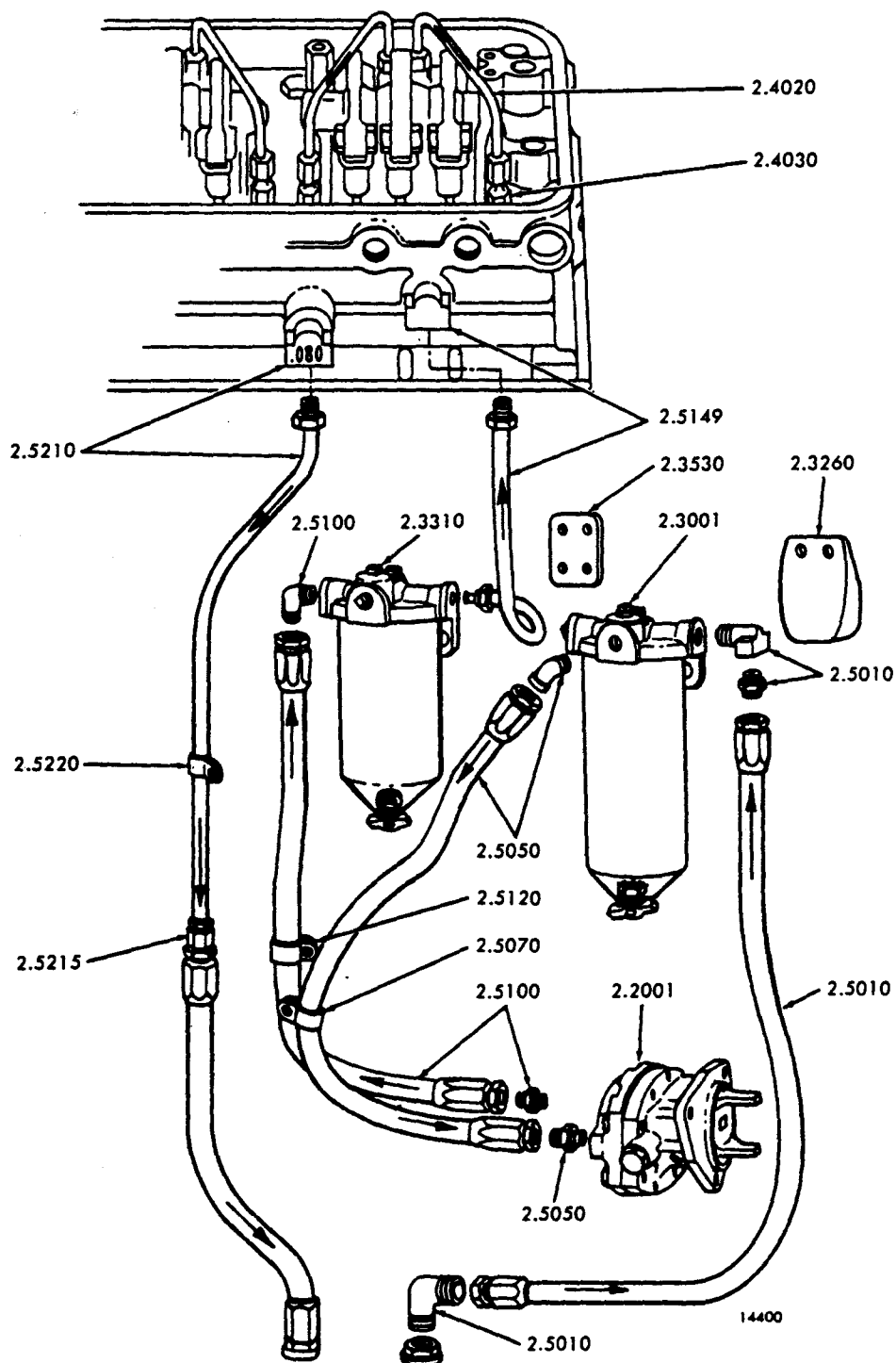


FIG. 4A TYPICAL FUEL SYSTEM (In-line Models)

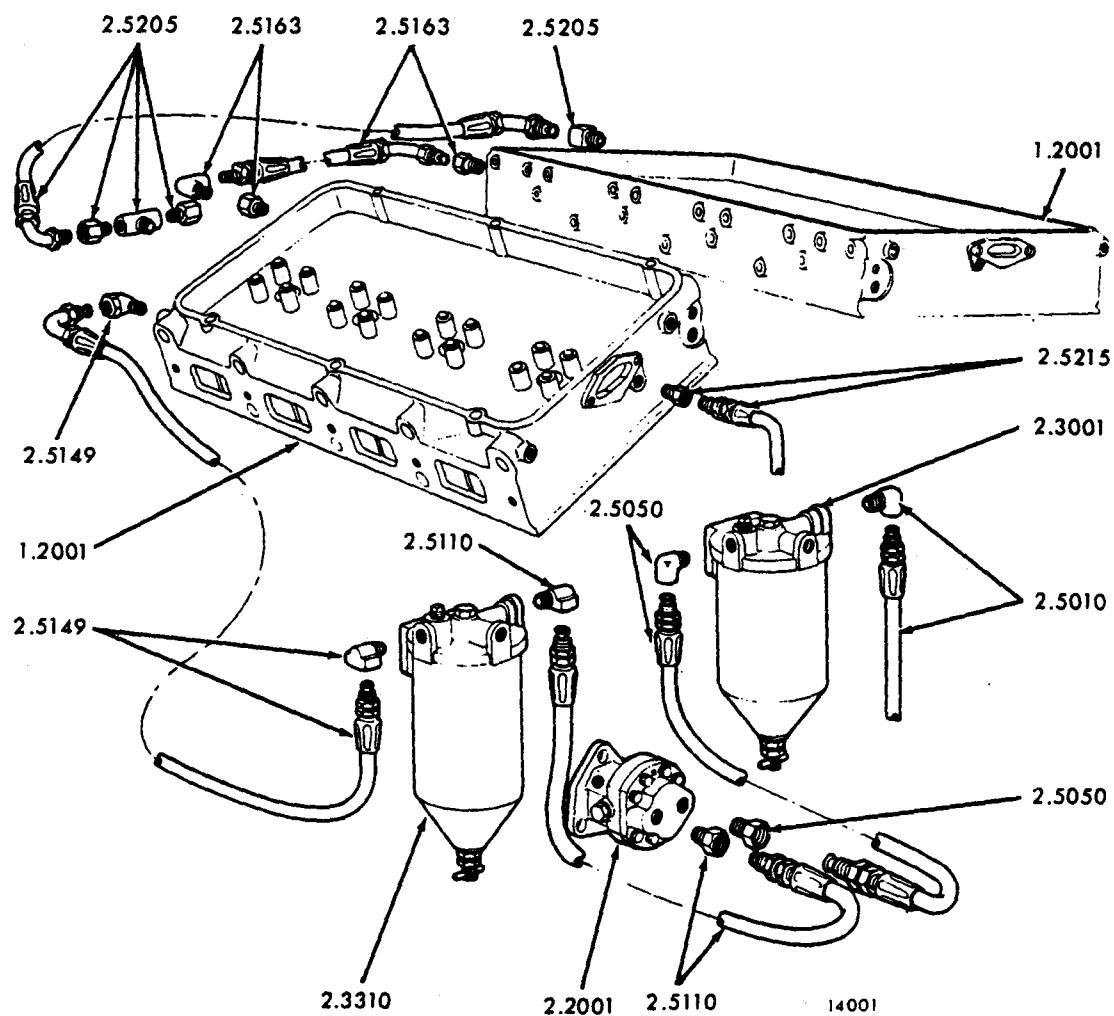


FIG. 4B TYPICAL FUEL SYSTEM (V-Models)

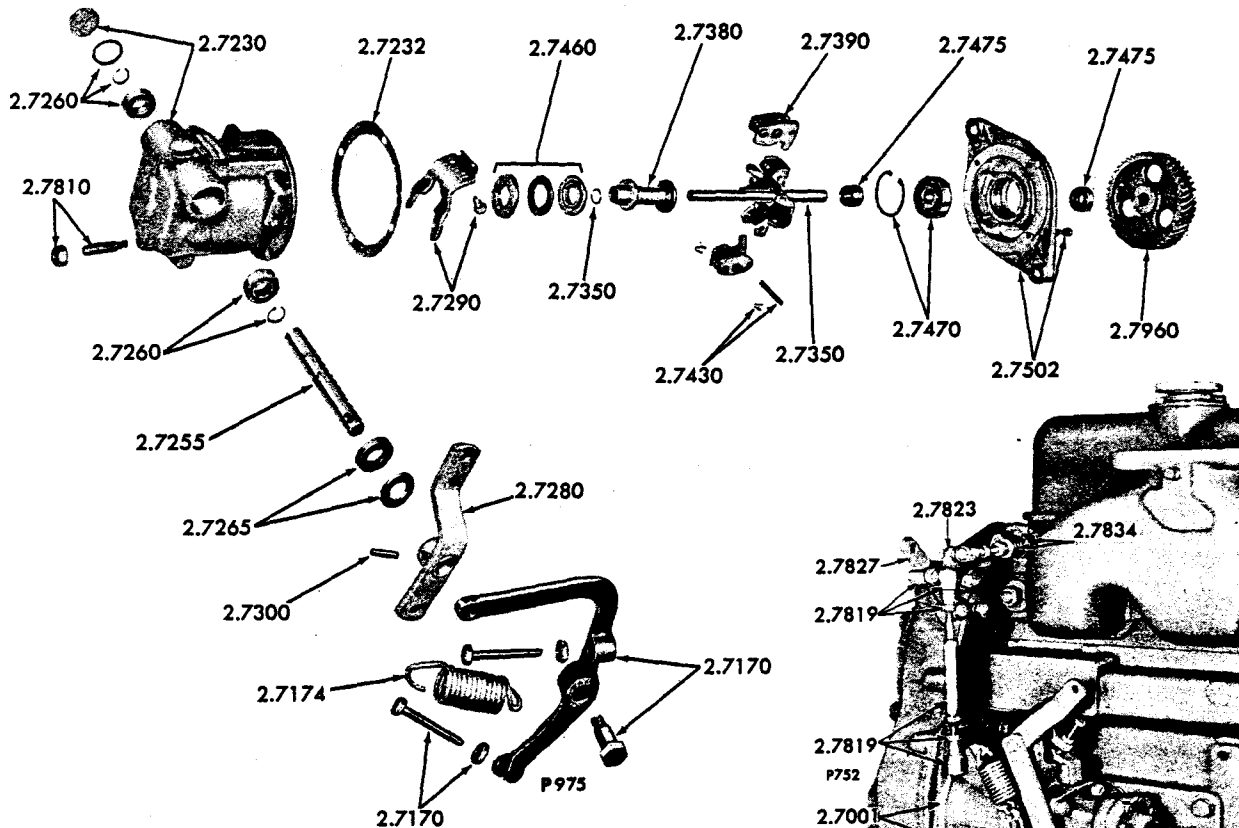


FIG. 5C GOVERNOR

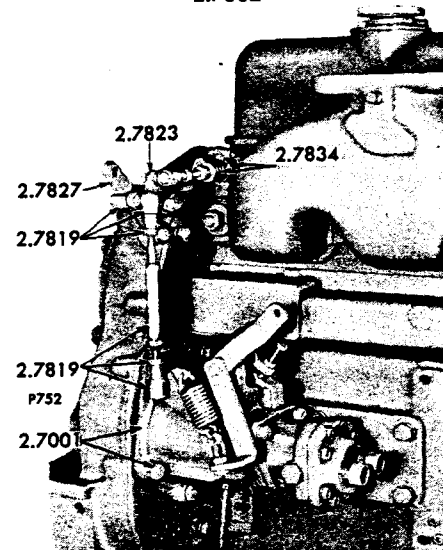


FIG. 5A GOVERNOR (PIERCE)

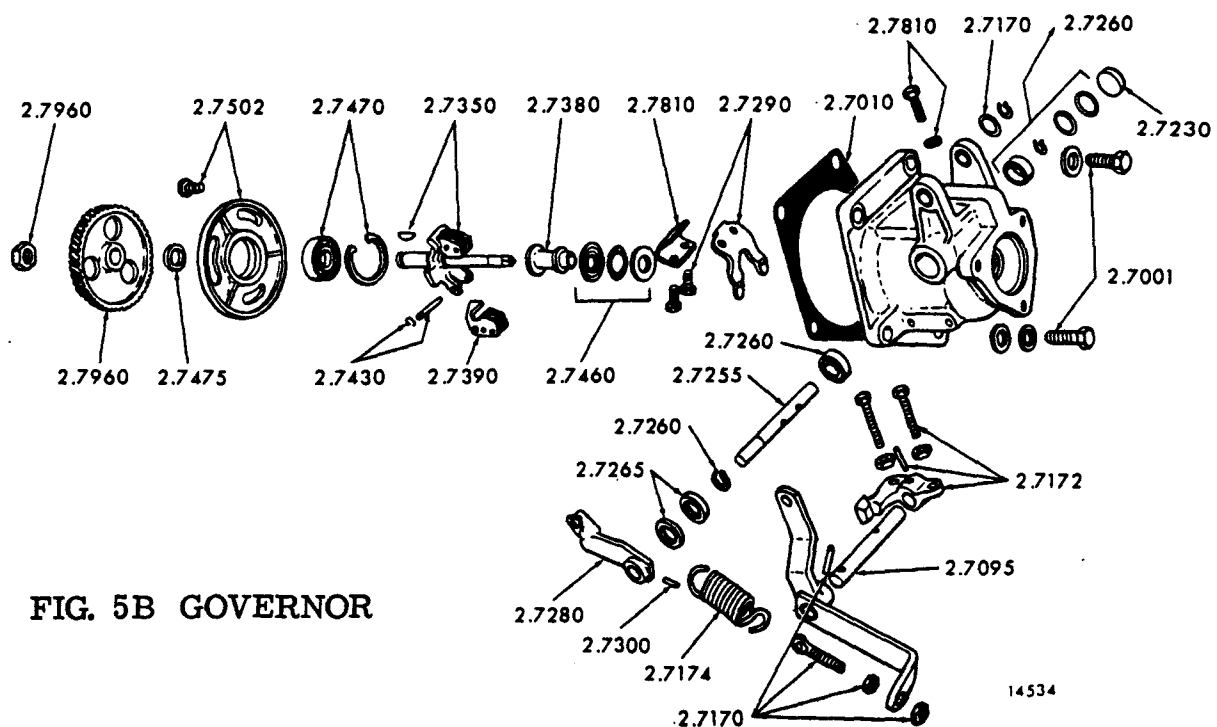
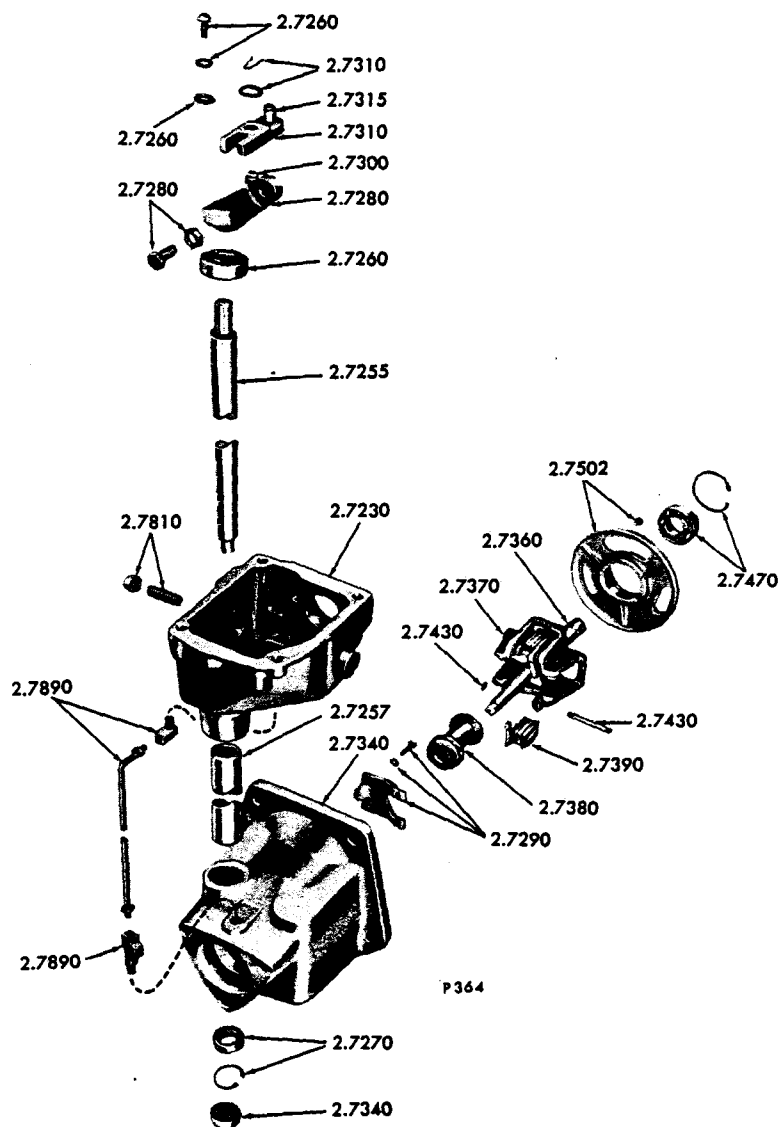
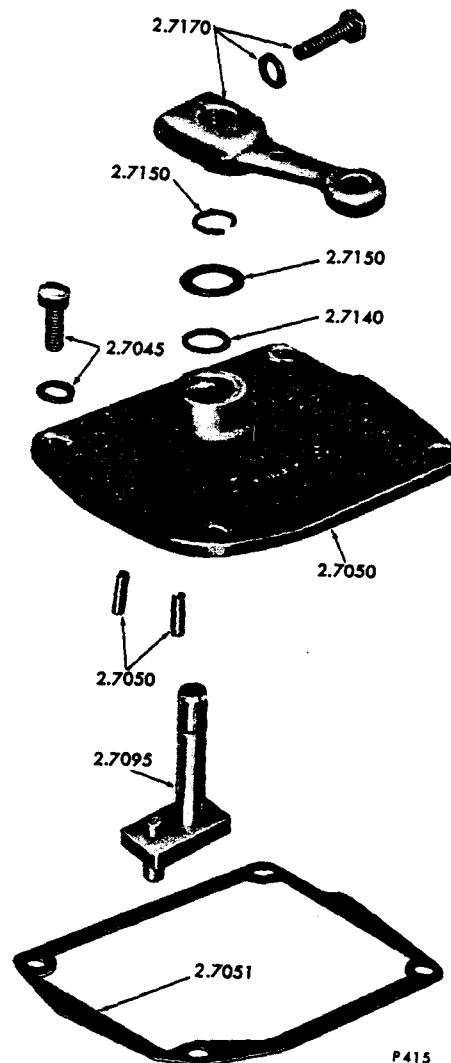


FIG. 5B GOVERNOR



**FIG. 5D - MECHANICAL GOVERNOR HOUSING  
WEIGHTS AND LEVER (CLOSED LINKAGE)**



**FIG. 5E - MECHANICAL GOVERNOR COVER  
(SINGLE LEVER)**

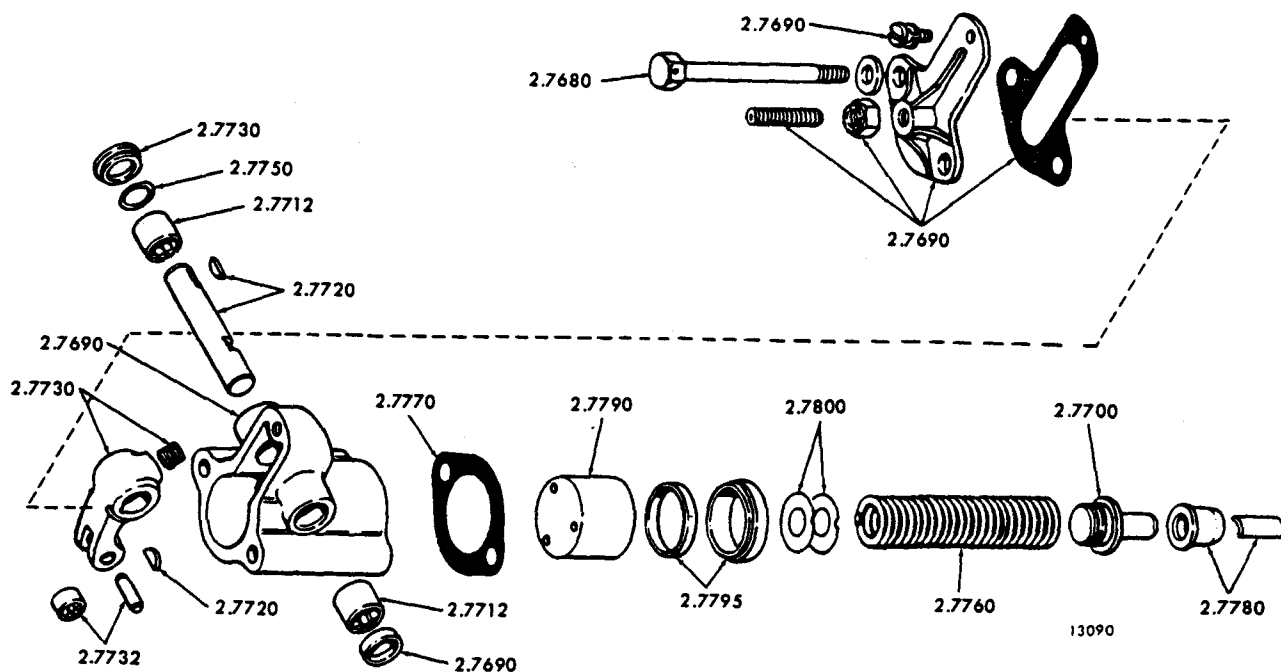


FIG. 5F VARIABLE SPEED GOVERNOR SPRING AND HOUSING

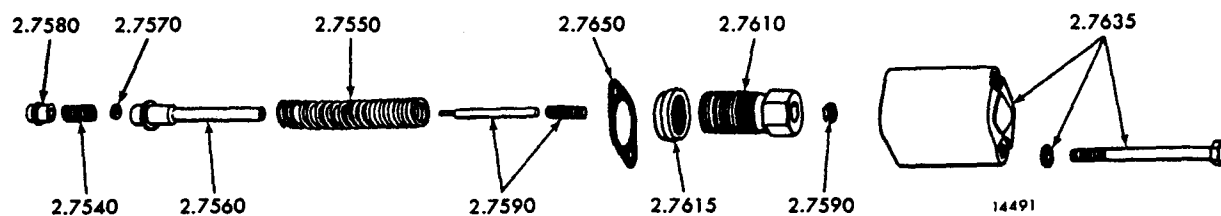


FIG. 5G LIMITING SPEED GOVERNOR SPRING AND HOUSING

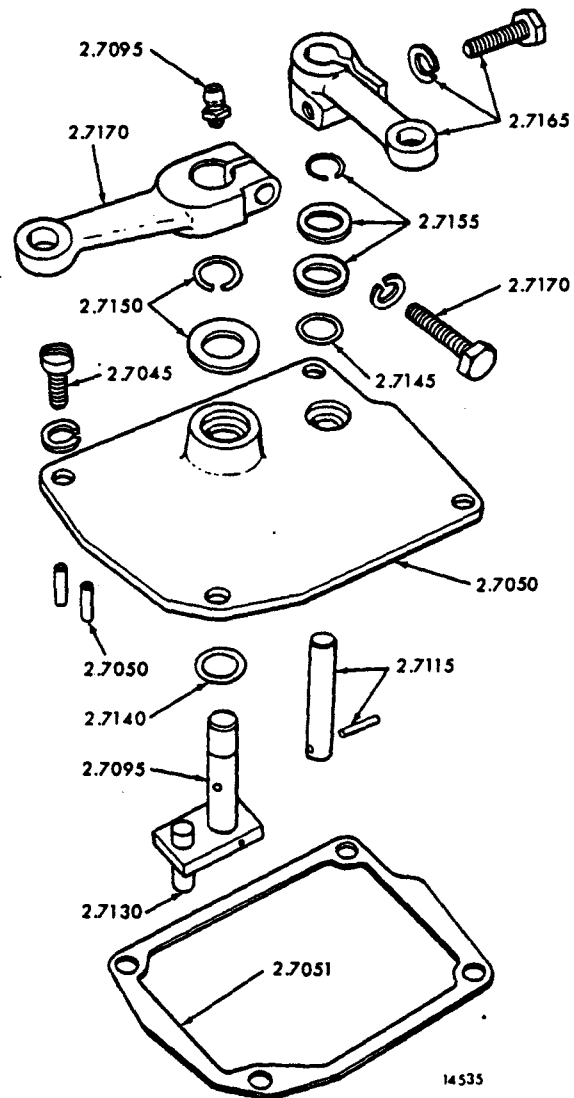


FIG. 5H MECHANICAL GOVERNOR COVER (Double Lever)

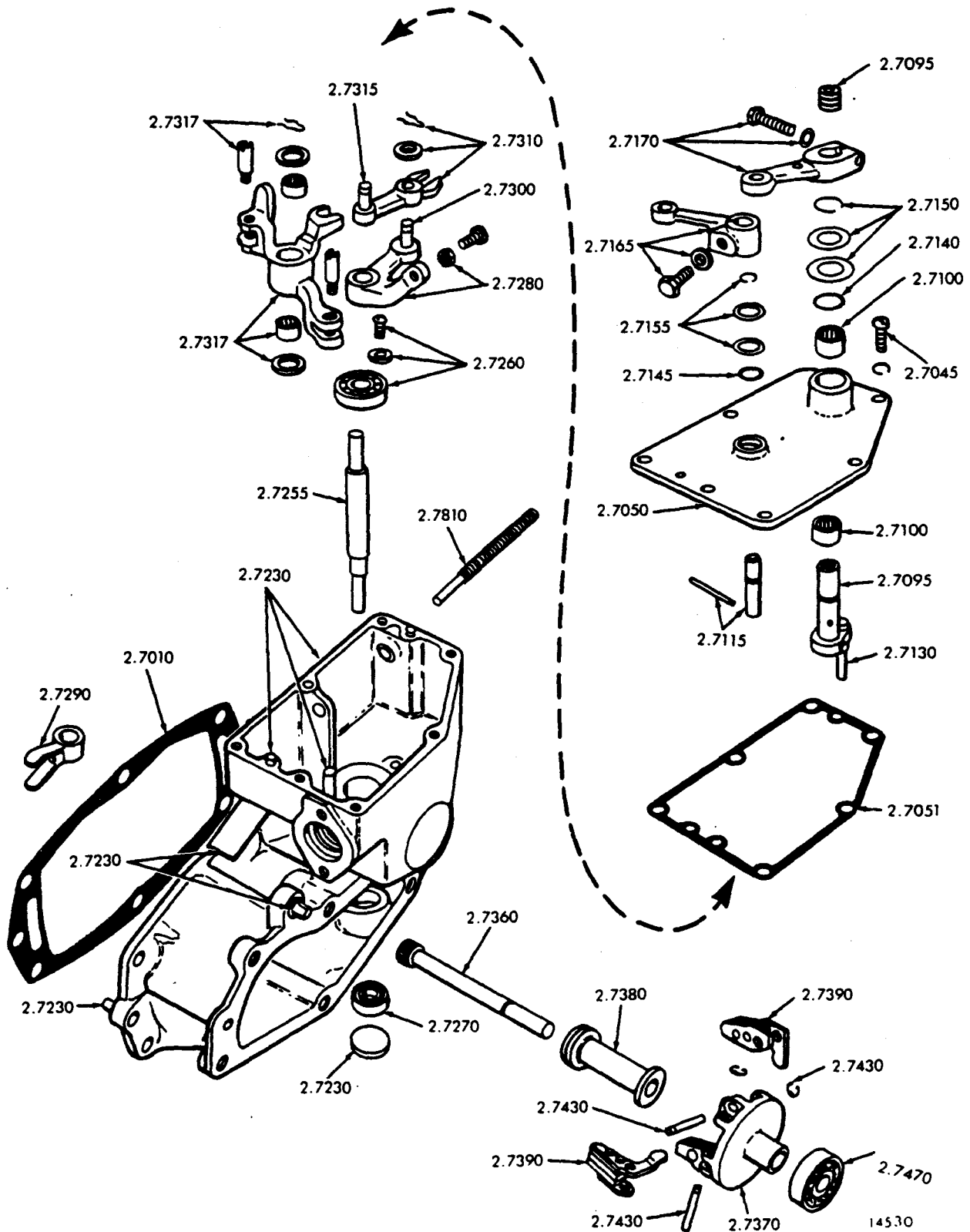
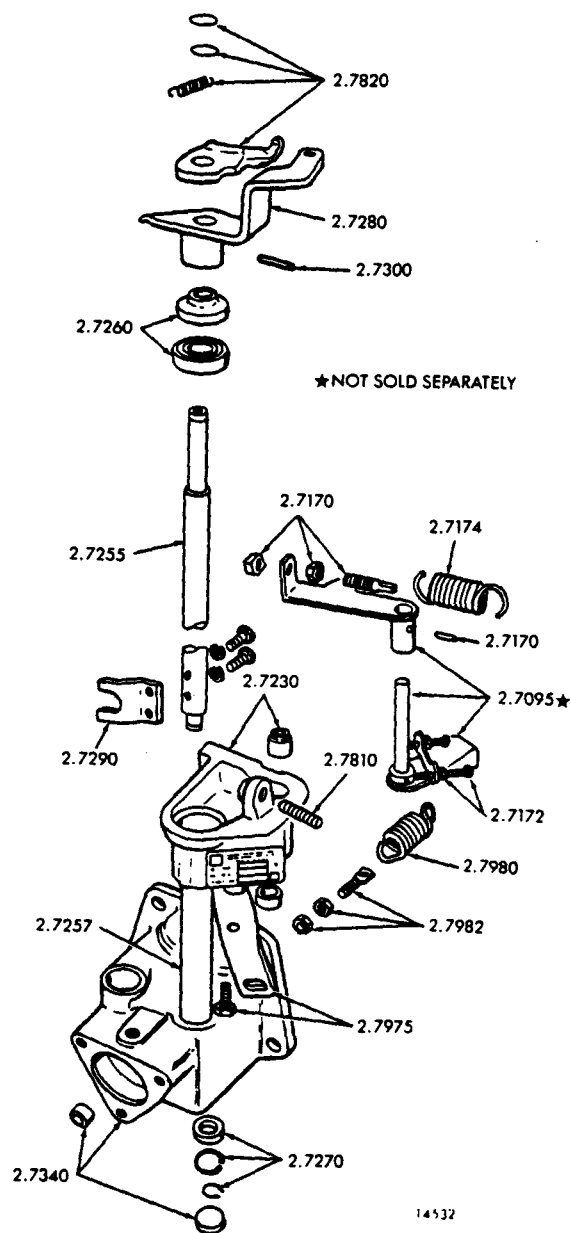
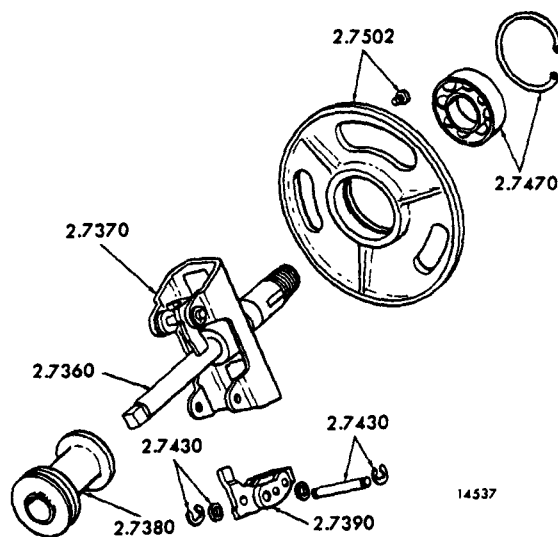


FIG. 5J MECHANICAL GOVERNOR (6V)



**FIG. 5K MECHANICAL GOVERNOR  
(Open Linkage)**



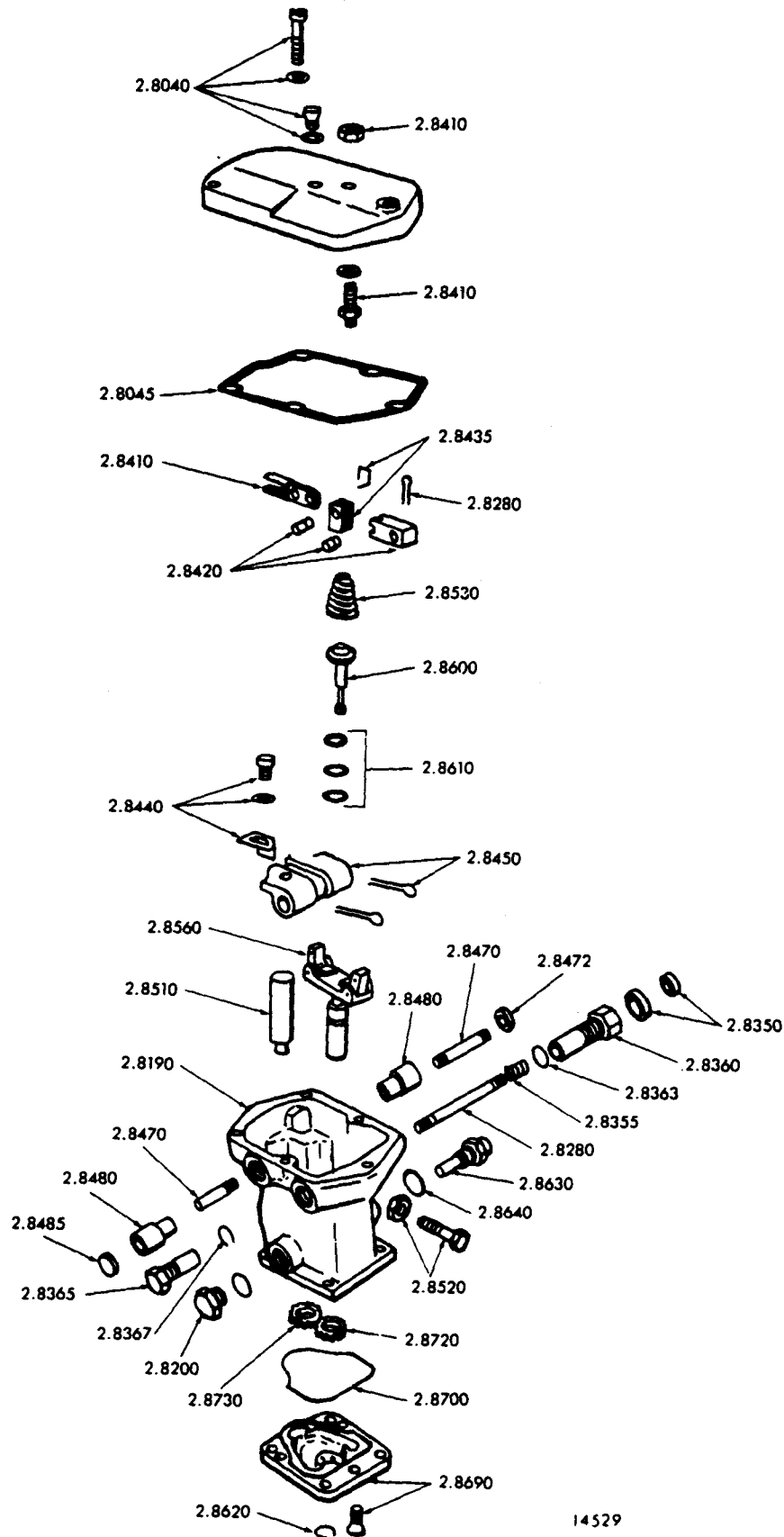
**FIG. 5L GOVERNOR WEIGHT  
SHAFT AND CARRIER**



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**Fig. 5M of 2.0000**

Sept., 1977



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FIG. 6A HYDRAULIC GOVERNOR

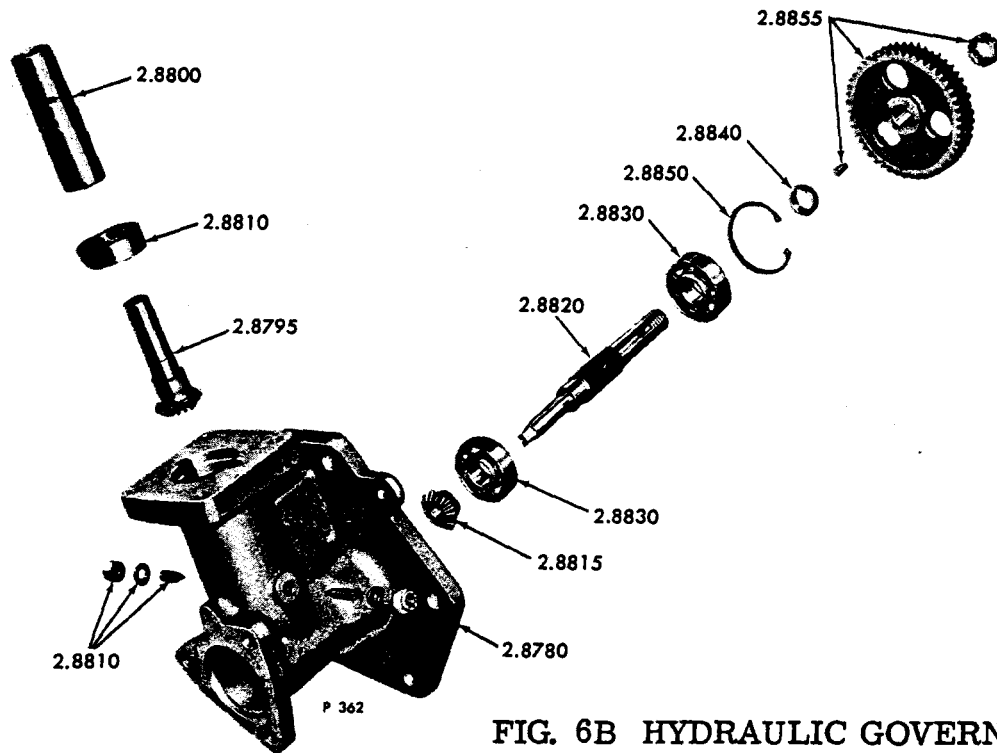
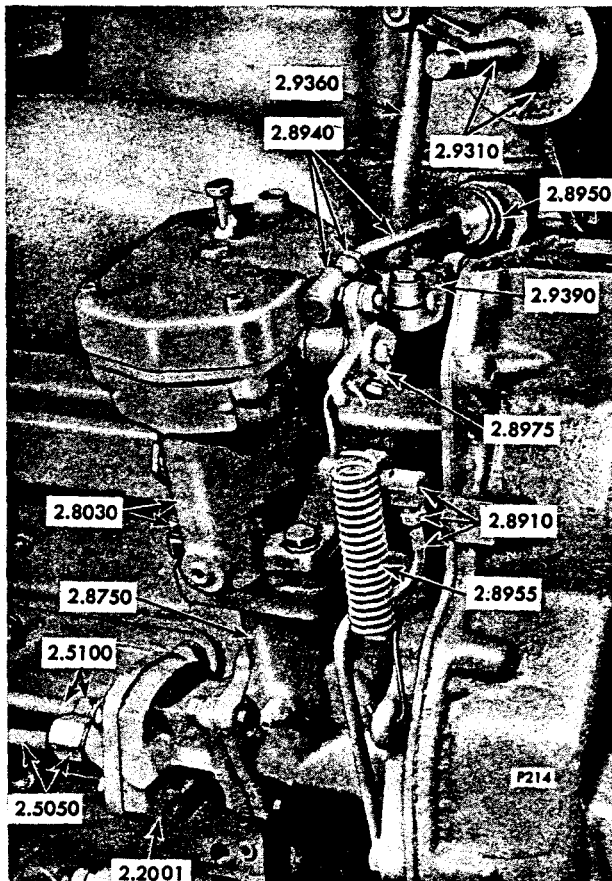
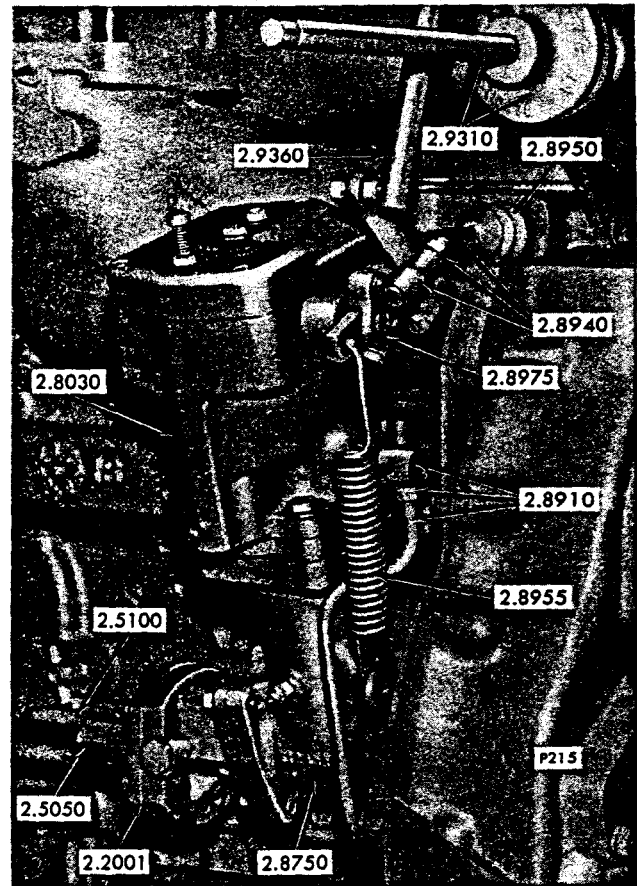


FIG. 6B HYDRAULIC GOVERNOR DRIVE



FORMER



CURRENT

FIG. 6C HYDRAULIC GOVERNOR

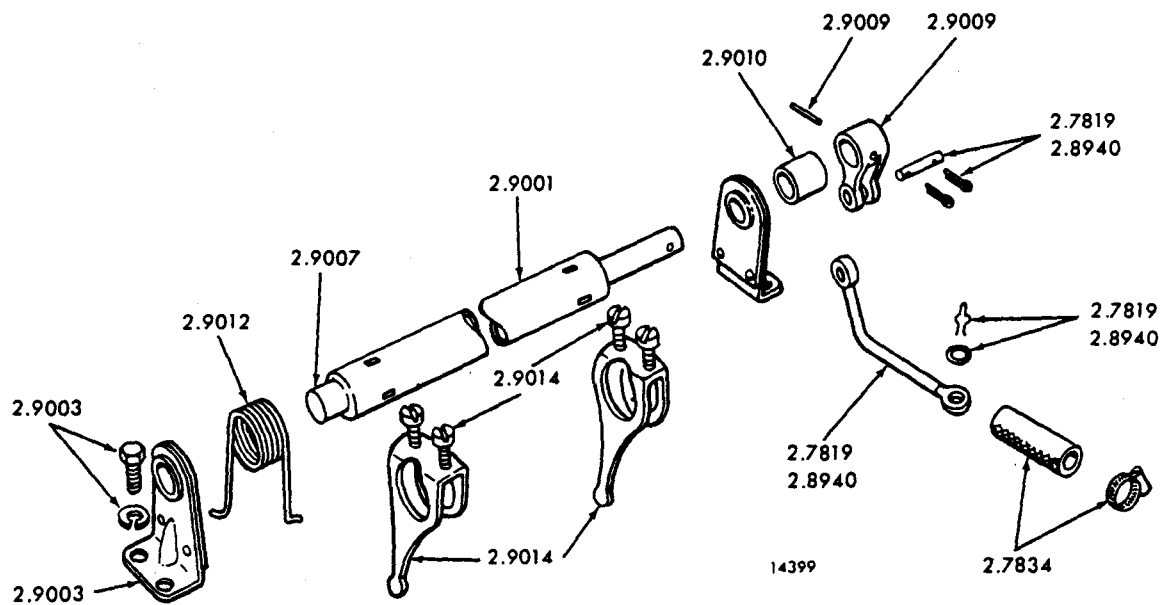


FIG. 7A INJECTOR CONTROL TUBE (In-line Models)

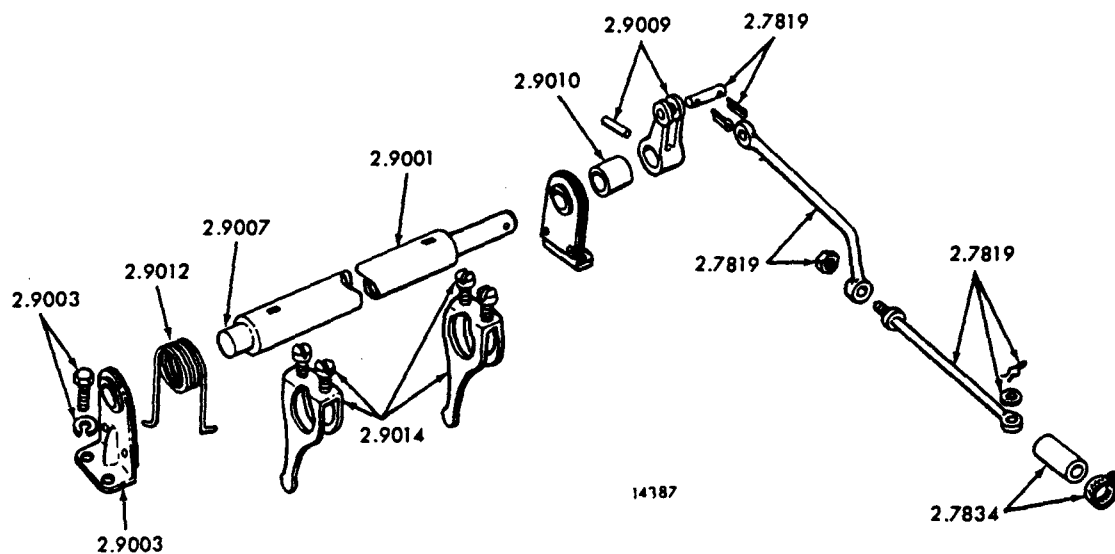
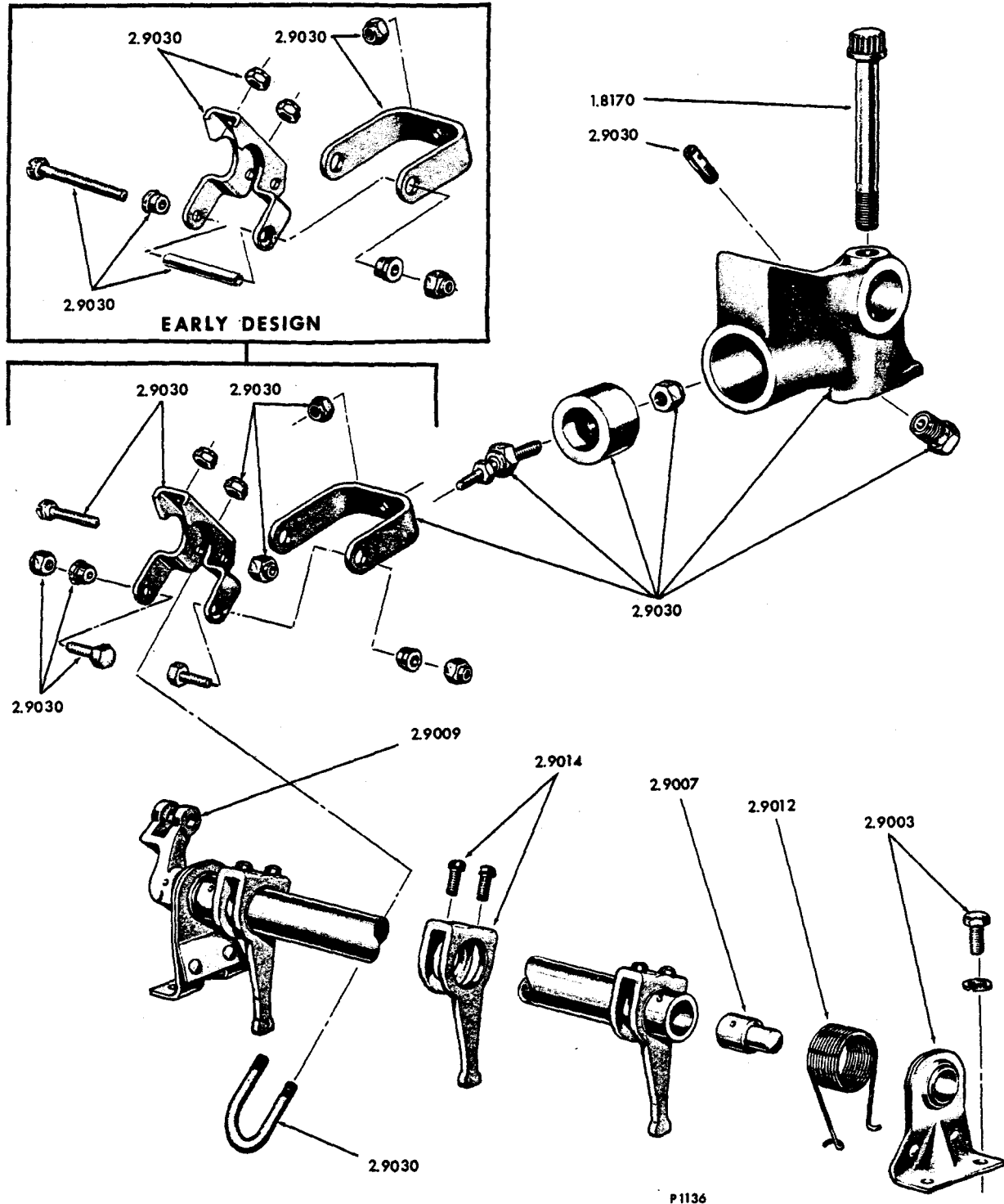


FIG. 7B INJECTOR CONTROL TUBE (V-Models)



**FIG. 7C INJECTOR CONTROL TUBE AND THROTTLE DELAY MECHANISM (8V)**

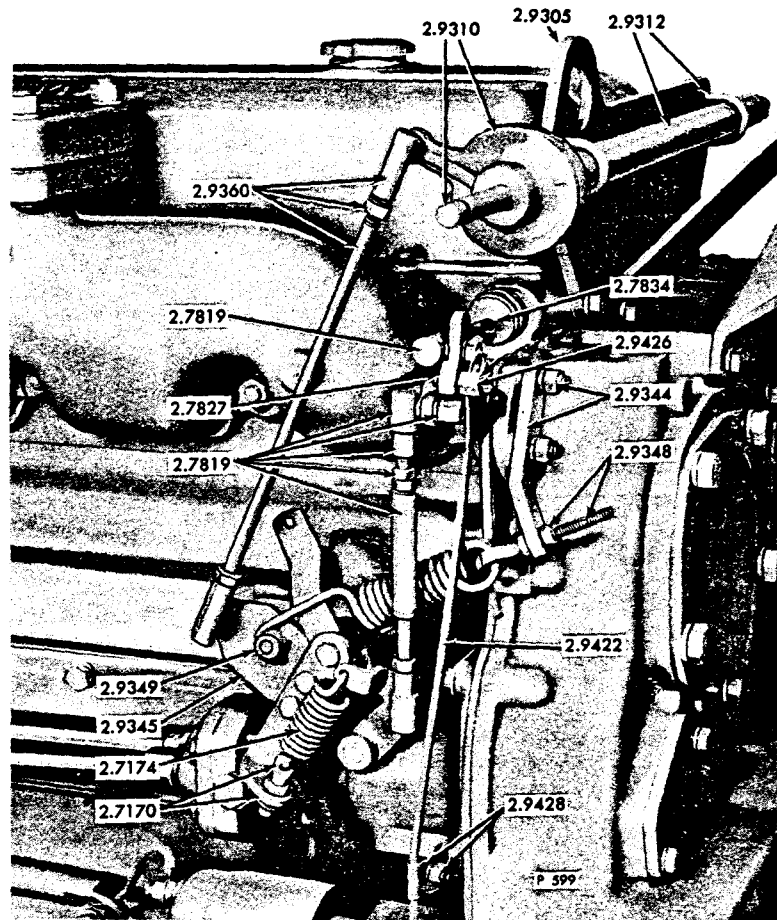


FIG. 8A THROTTLE CONTROL (PIERCE GOVERNOR)

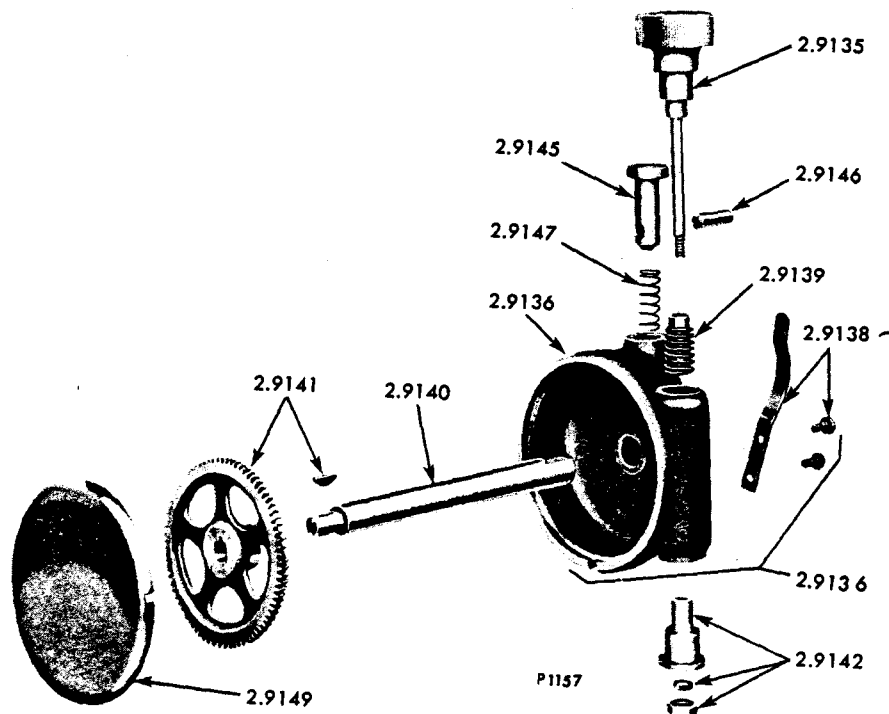


FIG. 8B VERNIER THROTTLE CONTROL

## 2.1000A FUEL INJECTOR

PART  
FIG . . . NUMBER . . . . . NAME AND DESCRIPTION . . . . .

TYPES

## 2.1001 - INJECTOR ASSY.

~~FOR TYPE 104 USE TYPE 80.~~  
QUANTITIES SHOWN ARE PER CYLINDER.  
INCLUDES ITEMS IN 2.1020 THRU  
2.1265.

1B 5228773 \* INJECTOR ASSY. (N45) . . . . . 1-  
1B 5228770 INJECTOR ASSY. (N70) . . . . . 1  
1B 5228774 \* @ INJECTOR ASSY. (M50)(USE TYPE 74) . . . . . 1  
1B 5228793 \* INJECTOR ASSY. (L40) . . . . . 1  
1B 5228814 \* INJECTOR ASSY. (M65) . . . . . 1  
1B 5228824 \* # INJECTOR ASSY. (M60) . . . . . 1  
1B 5228834 \* INJECTOR ASSY. (M55) . . . . . 1  
1B 5229185 \* INJECTOR ASSY. (M70) . . . . . 1

\* THESE INJECTORS HAVE FILTER  
ELEMENT AT FUEL INLET SIDE ONLY.

~~@ NOT SERVICED AS AN ASSY.~~

~~COMPONENTS AVAILABLE FOR COMPLETE~~

~~REPLACEMENT USE TYPE SHOWN.~~

~~# NOT SERVICED AS AN ASSY., USE~~

~~COMPONENTS.~~

## 2.1002 - OVERHAUL KIT, INJECTOR

OVERHAUL KIT CONSISTS OF ONE (1)  
SEAL RING, TWO (2) FILTER CAP  
GASKETS, TWO (2) FILTER ELEMENTS AND  
TWO (2) SHIPPING CAPS.

5229649

~~5228701~~ OVERHAUL KIT . . . . . AR AR AR AR AR AR AR AR AR AR

## 2.1010 - CONTAINER, INJECTOR SHIPPING

1A 5193171 CONTAINER (12.8050) . . . . . AR AR AR AR AR AR AR AR AR AR

## 2.1020 - BODY ASSY., INJECTOR

A BODY ASSY. INCLUDES DOWEL AND PLUG  
IN 2.1020.

1B 5228583 BODY ASSY. . . . . 1 1 1 1 1 1 1 1 1 1  
1A 5226416 DOWEL . . . . . 1 1 1 1 1 1 1 1 1 1  
5226912 PLUG, BODY . . . . . 2 2 2 2 2 2 2 2 2 2  
1A 5229191 TAG, NUMBER (BLANK & UNPAINTED) . . . . . 1 1 1 1 1 1 1 1 1 1  
1B 5228764 TAG, NUMBER (N45) . . . . . 1  
1B 5228782 TAG, NUMBER (M70) . . . . . 1 1

## 2.1000A FUEL INJECTOR

| PART |         |                                                                                       | TYPES  |        |        |        |        |        |        |        |        |             |
|------|---------|---------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| FIG  | NUMBER  | NAME AND DESCRIPTION                                                                  | 7<br>6 | 8<br>0 | 8<br>4 | 8<br>6 | 8<br>7 | 8<br>8 | 8<br>9 | 9<br>3 | 9<br>4 | 1<br>0<br>2 |
|      |         | 2.1030 - NUT, INJECTOR VALVE                                                          |        |        |        |        |        |        |        |        |        |             |
| 1B   | 5228601 | NUT .....                                                                             | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1           |
|      |         | 2.1040 - RING, INJECTOR SEAL                                                          |        |        |        |        |        |        |        |        |        |             |
| 1A   | 5229167 | RING .....                                                                            | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1           |
|      |         | 2.1050 - DEFLECTOR, INJECTOR SPILL                                                    |        |        |        |        |        |        |        |        |        |             |
| 1A   | 5228109 | DEFLECTOR .....                                                                       | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1           |
|      |         | 2.1060 - FOLLOWER, INJECTOR                                                           |        |        |        |        |        |        |        |        |        |             |
| 1A   | 5228104 | FOLLOWER .....                                                                        | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1           |
|      |         | 2.1080 - SPRING, INJECTOR PLUNGER                                                     |        |        |        |        |        |        |        |        |        |             |
| 1A   | 5228739 | SPRING .....                                                                          | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1           |
|      |         | 2.1100 - PIN, INJECTOR STOP                                                           |        |        |        |        |        |        |        |        |        |             |
| 1B   | 5228608 | PIN .....                                                                             | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1           |
|      |         | 2.1110 - ELEMENT, INJECTOR FILTER                                                     |        |        |        |        |        |        |        |        |        |             |
| 1B   | 5228587 | ELEMENT .....                                                                         | 1      | 2      | 1      | 1      | 1      | 2      | 1      | 1      | 1      | 1           |
|      |         | 2.1130 - CAP, INJECTOR FILTER                                                         |        |        |        |        |        |        |        |        |        |             |
| 1B   | 5228588 | CAP .....                                                                             | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 2           |
|      |         | 2.1140 - GASKET, INJECTOR FILTER CAP                                                  |        |        |        |        |        |        |        |        |        |             |
| 1A   | 5226186 | GASKET .....                                                                          | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 2           |
|      |         | 2.1150 - CAP, INJECTOR SHIPPING                                                       |        |        |        |        |        |        |        |        |        |             |
| 1B   | 5226414 | CAP .....                                                                             |        | AR     | AR     | AR     | AR     | AR     | AR     | AR     | AR     | AR          |
|      |         | 2.1160 - PLUNGER AND BUSHING ASSY., INJECTOR                                          |        |        |        |        |        |        |        |        |        |             |
|      |         | PLUNGERS AND BUSHINGS ARE NOT SOLD<br>SEPARATELY. AN ASSY. INCLUDES PIN IN<br>2.1165. |        |        |        |        |        |        |        |        |        |             |

## 2.1000A FUEL INJECTOR

| PART |         |                                                              | TYPES  |        |        |        |        |        |        |        |        |             |
|------|---------|--------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| .FIG | NUMBER  | NAME AND DESCRIPTION                                         | 7<br>6 | 8<br>0 | 8<br>4 | 8<br>6 | 8<br>7 | 8<br>8 | 8<br>9 | 9<br>3 | 9<br>4 | 1<br>0<br>2 |
|      |         | <b>2.1160 - PLUNGER AND BUSHING ASSY., INJECTOR (CONT'D)</b> |        |        |        |        |        |        |        |        |        |             |
| 1B   | 5228679 | PLUNGER AND BUSHING ASSY. (L40) .....                        |        |        |        | 1      |        |        |        |        |        |             |
| 1B   | 5228684 | PLUNGER AND BUSHING ASSY. (N45) .....                        | 1      |        | 1      |        |        |        | 1      |        |        |             |
| 1B   | 5228749 | PLUNGER AND BUSHING ASSY. (N50)(M60) .....                   |        |        |        |        |        | 1      |        |        |        |             |
| 1B   | 5228682 | PLUNGER AND BUSHING ASSY. (N70)(M70) .....                   |        | 1      |        |        | 1      |        |        |        |        | 1           |
| 1B   | 5228661 | PLUNGER AND BUSHING ASSY. (M65) .....                        |        |        |        |        | 1      |        |        |        | 1      |             |
| 1B   | 5228841 | PLUNGER AND BUSHING ASSY. (M55) .....                        |        |        |        |        |        |        |        | 1      |        |             |
|      |         | <b>2.1165 - PIN, BUSHING GUIDE</b>                           |        |        |        |        |        |        |        |        |        |             |
|      | 5226393 | PIN .....                                                    | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1           |
|      |         | <b>2.1170 - RACK, INJECTOR</b>                               |        |        |        |        |        |        |        |        |        |             |
| 1A   | 5226719 | RACK .....                                                   | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1           |
|      |         | <b>2.1180 - GEAR, INJECTOR</b>                               |        |        |        |        |        |        |        |        |        |             |
| 1A   | 5226400 | GEAR .....                                                   | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1           |
|      |         | <b>2.1190 - RETAINER, INJECTOR GEAR</b>                      |        |        |        |        |        |        |        |        |        |             |
| 1B   | 5228586 | RETAINER .....                                               | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1           |
|      |         | <b>2.1200 - VALVE, INJECTOR CHECK</b>                        |        |        |        |        |        |        |        |        |        |             |
| 1B   | 5228694 | VALVE .....                                                  | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1           |
|      |         | <b>2.1205 - CAGE, INJECTOR CHECK VALVE</b>                   |        |        |        |        |        |        |        |        |        |             |
| 1B   | 5228696 | CAGE .....                                                   | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1           |
|      |         | <b>2.1235 - TIP ASSY., INJECTOR SPRAY</b>                    |        |        |        |        |        |        |        |        |        |             |
|      |         | COMPONENTS OF TIP ASSY. ARE NOT SOLD SEPARATELY.             |        |        |        |        |        |        |        |        |        |             |
| 1B   | 5229034 | TIP ASSY. (M60,M65,M70,N40,N45,N50) .....                    | 1      |        | 1      |        | 1      |        |        | 1      | 1      |             |
| 1B   | 5229042 | TIP ASSY. (N70) .....                                        |        | 1      |        |        |        | 1      |        |        |        |             |
| 1B   | 5228768 | TIP ASSY. (L40) .....                                        |        |        |        | 1      |        |        |        |        |        |             |
| 1B   | 5229192 | TIP ASSY. (M60, M70) .....                                   |        |        |        |        |        |        | 1      |        |        | 1           |

## 2.1000A FUEL INJECTOR

| PART |                             |                                             | TYPES  |        |        |        |        |        |        |        |        |             |
|------|-----------------------------|---------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| FIG  | NUMBER                      | NAME AND DESCRIPTION                        | 7<br>6 | 8<br>0 | 8<br>4 | 8<br>6 | 8<br>7 | 8<br>8 | 8<br>9 | 9<br>3 | 9<br>4 | 1<br>0<br>2 |
|      |                             | <b>2.1238 - VALVE KIT, INJECTOR</b>         |        |        |        |        |        |        |        |        |        |             |
|      |                             | INCLUDES ITEMS IN 2.1250 AND 2.1255.        |        |        |        |        |        |        |        |        |        |             |
|      | 5228769                     | VALVE KIT (SHORT QUILL NEEDLE) .....        | AR     | AR     | AR     |        | AR     | AR     | AR     | AR     | AR     | AR          |
|      | 5228690                     | VALVE KIT .....                             |        |        |        | AR     |        |        |        |        |        |             |
|      |                             | <b>2.1250 - SPRING, INJECTOR VALVE</b>      |        |        |        |        |        |        |        |        |        |             |
| 1B   | 5228676                     | SPRING .....                                |        |        |        | 1      |        |        |        |        |        |             |
| 1B   | 5228596                     | SPRING .....                                | 1      | 1      | 1      |        | 1      | 1      | 1      | 1      | 1      | 1           |
|      |                             | <b>2.1255 - SEAT, INJECTOR VALVE SPRING</b> |        |        |        |        |        |        |        |        |        |             |
| 1B   | 5228766                     | SEAT .....                                  | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1           |
|      |                             | <b>2.1257 - CAGE, INJECTOR VALVE SPRING</b> |        |        |        |        |        |        |        |        |        |             |
| 1B   | 5228594                     | CAGE .....                                  | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1           |
|      |                             | <b>2.1270 - CLAMP, INJECTOR</b>             |        |        |        |        |        |        |        |        |        |             |
| 1A   | 5121259                     | CLAMP .....                                 | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1           |
| 1A   | 5150250                     | WASHER .....                                | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1           |
| 1A   | <del>160136</del><br>171247 | BOLT, 3/8"-16X2" (12.9001) .....            | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1           |

## TYPES

| PART |                                                | QUANTITY             |   |   |   |   |   |   |   |   |   |   |   |
|------|------------------------------------------------|----------------------|---|---|---|---|---|---|---|---|---|---|---|
| FIG  | NUMBER                                         | NAME AND DESCRIPTION |   |   |   |   |   |   |   |   |   |   |   |
|      |                                                | 8                    | 8 | 9 | 9 | 8 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|      |                                                | 6                    | 9 | 0 | 6 | 8 | 0 | 2 | 0 | 6 | 1 | 8 | 9 |
|      | <b>2.2228 - DISC, FUEL PUMP DRIVE (CONT'D)</b> |                      |   |   |   |   |   |   |   |   |   |   |   |
|      | 5177026 SPACER (12.5015)                       |                      |   |   |   |   |   |   |   |   | 1 |   |   |
|      | 5140814 SPACER (12.5015)                       |                      |   |   |   |   |   |   |   |   |   |   | 1 |
|      | 5125492 BOLT, 3/8"-24X1.12" (1.7630)           |                      |   |   |   |   |   |   |   |   | 3 |   |   |
|      | 5145091 BOLT, 3/8"-24X1.38" (12.5015)          |                      |   |   |   |   |   |   |   |   |   |   | 4 |
|      | 9413533 NUT, 3/8"-24 SELF-LOCKING (12.9120)    |                      |   |   |   |   |   |   |   |   | 1 |   | 1 |
|      | 5145431 NUT, 3/8"-24 HEX. (12.9120)            |                      |   |   |   |   |   |   |   |   | 1 |   | 1 |
|      | <b>2.2230 - COUPLING, FUEL PUMP DRIVE</b>      |                      |   |   |   |   |   |   |   |   |   |   |   |
|      | 5109676 COUPLING, 3,4-53                       |                      |   |   | 1 |   |   |   |   |   |   | 1 |   |
|      | 5143616 COUPLING, 2,3,4-53 (12.5010)           |                      |   |   |   |   |   |   |   |   | 1 |   | 1 |
|      | <b>2.2235 - PLATE, FUEL PUMP COUNTING</b>      |                      |   |   |   |   |   |   |   |   |   |   |   |
| 2C   | 5121050 PLATE, 4,6,8V53                        |                      |   |   |   |   | 1 |   | 1 |   |   |   |   |
| 2C   | 5125179 ADAPTOR, 2,3,4-53 (2.2260)             |                      |   |   |   |   |   |   |   |   | 1 |   | 1 |
| 2C   | 179858 BOLT, 7/16"-14X1" (12.9001)             |                      |   |   |   |   |   |   |   |   | 1 |   | 1 |
| 2C   | 454990 BOLT, 1/2"-13X1 1/8" (12.9001)          |                      |   |   |   |   |   |   |   |   | 4 |   | 4 |
|      | <b>2.2260 - ADAPTOR, FUEL PUMP DRIVE</b>       |                      |   |   |   |   |   |   |   |   |   |   |   |
| 2C   | 5125775 ADAPTOR, 6,8V53                        |                      | 1 | 1 |   |   |   | 1 |   | 1 |   |   |   |
| 2C   | 5127266 ADAPTOR, 4,6,8V53                      |                      |   |   |   |   | 1 |   | 1 |   |   |   |   |
| 2C   | 9409073 BOLT, 1/4"-20X5/8" (12.9001)           |                      | 2 | 2 |   |   | 2 |   | 2 |   |   |   |   |
| 2C   | 9409131 BOLT, 3/8"-24X3/4" (12.9001)           |                      |   |   |   |   |   |   |   |   |   |   |   |
| 2C   | 9409034 BOLT, 3/8"-24X7/8" (12.9001)           |                      |   |   |   |   |   |   | 2 |   |   |   |   |
|      | <b>2.2290 - GEAR, FUEL PUMP DRIVE</b>          |                      |   |   |   |   |   |   |   |   |   |   |   |
|      | A GEAR ASSY. INCLUDES BUSHING.                 |                      |   |   |   |   |   |   |   |   |   |   |   |
| 2B   | 5125767 GEAR ASSY., 6,8V53                     |                      | 1 | 1 |   |   |   | 1 |   | 1 |   |   |   |
|      | 5172916 GEAR, 2,3,4-53                         |                      |   |   |   |   |   |   |   |   | 1 |   | 1 |
|      | 106958 KEY, 1/16"X1/2" WOODRUFF (12.9350)      |                      |   |   |   |   |   |   |   |   | 1 |   | 1 |
|      | 140881 SCREW, #10-32X5/16" SET (12.9076)       |                      |   |   |   |   |   |   |   |   | 1 |   | 1 |
|      | 5196842 BUSHING                                |                      | 1 | 1 |   |   |   | 1 |   | 1 |   |   |   |
|      | <b>2.2292 - HUB, FUEL PUMP DRIVE GEAR</b>      |                      |   |   |   |   |   |   |   |   |   |   |   |
| 2B   | 5125774 HUB, 6,8V53                            |                      |   | 1 |   |   |   | 1 |   | 1 |   |   |   |
| 2B   | 9409203 BOLT, 1/2"-13X2 3/4" (12.9001)         |                      | 1 | 1 |   |   |   | 1 |   | 1 |   |   |   |
| 2B   | 5125771 WASHER, THRUST (INNER)                 |                      | 2 | 2 |   |   |   | 2 |   | 2 |   |   |   |
| 2B   | 5126672 WASHER, RETAINER                       |                      | 1 | 1 |   |   |   | 1 |   | 1 |   |   |   |

## 2.2000 FUEL PUMP

| PART |                | TYPES                                                                                                                        |             |             |             |             |             |             |             |             |             |             |             |
|------|----------------|------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| .FIG | NUMBER         | NAME AND DESCRIPTION                                                                                                         | 1<br>2<br>0 | 1<br>2<br>8 | 1<br>3<br>1 | 1<br>3<br>2 | 1<br>3<br>4 | 1<br>3<br>6 | 1<br>3<br>7 | 1<br>3<br>8 | 1<br>3<br>9 | 1<br>4<br>0 | 1<br>4<br>3 |
|      |                | <b>2.2001 - PUMP ASSY., FUEL</b>                                                                                             |             |             |             |             |             |             |             |             |             |             |             |
|      |                | SEE ASSEMBLY BREAKDOWN AS INDICATED BELOW.                                                                                   |             |             |             |             |             |             |             |             |             |             |             |
|      |                | A FUEL PUMP KIT INCLUDES A 3/8" INLET PUMP, GASKET IN 2.2007 AND REDUCING BUSHING IN 2.2030.                                 |             |             |             |             |             |             |             |             |             |             |             |
|      | <b>5131476</b> | * PUMP ASSY., 3,4-53 (TITAN #4101-B-63C)                                                                                     | 1           |             |             |             |             |             |             |             |             |             |             |
| 2A   | <b>5146341</b> | # PUMP ASSY., 4,6V53 (L.H.) (3/8" INLET) (PAGE A3) D1)                                                                       |             | 1           | 1           | 1           |             |             |             |             |             |             | 1           |
| 2A   | <b>5146340</b> | # PUMP ASSY., 2,3,4,6V53 (R.H.) (3/8" INLET) (PAGE A5)                                                                       |             |             | 1           |             |             | 1           | 1           |             |             |             |             |
| 2A   | <b>5146697</b> | PUMP ASSY., 6V53 (R.H.) (3/8" INLET) (PAGE A5)                                                                               |             |             |             |             | 1           |             |             |             |             |             |             |
| 2A   | <b>5146342</b> | # PUMP ASSY., 6V53 (R.H.) (3/8" INLET) (PAGE A5)                                                                             |             |             |             |             |             |             |             | 1           | 1           | 1           |             |
|      | <b>5199734</b> | PUMP KIT, FUEL 6,8V53 (R.H.) (3/8" INLET) (PAGE D1)                                                                          |             |             |             |             |             |             |             | 1           | 1           | 1           |             |
| 2A   | <b>5199560</b> | PUMP KIT, FUEL 6V53 (L.H.) (PAGE A7) D1)                                                                                     |             | 1           | 1           | 1           |             |             |             |             |             |             |             |
|      | <b>5199561</b> | PUMP KIT, FUEL 6V53 (R.H.) (PAGE A7)                                                                                         |             |             | 1           |             |             | 1           |             |             |             |             |             |
|      | <b>C-384</b>   | MOTOR, ELECTRIC FUEL BOOSTER PUMP DRIVE 3-53 (24 VOLT)                                                                       | 1           |             |             |             |             |             |             |             |             |             |             |
|      | <b>189060</b>  | BUSHING, 3/4"X1/4" RED. (12.9570)                                                                                            | 1           |             |             |             |             |             |             |             |             |             |             |
|      | <b>142767</b>  | BUSHING, 3/4"X3/8" RED. (12.9570)                                                                                            | 1           |             |             |             |             |             |             |             |             |             |             |
|      | <b>5145009</b> | PLUG, 1/8" PIPE (12.9550)                                                                                                    |             |             | 2           | 2           | 3           | 2           | 3           | 2           | 2           | 2           | 2           |
|      | <b>5131685</b> | BOLT, 5/16"-18X3/4" NYLOC                                                                                                    |             | 3           | 3           | 3           | 3           | 3           | 3           | 3           | 3           | 3           | 3           |
|      | <b>442862</b>  | NUT, 5/16"-24 CAD. (12.9120)                                                                                                 | 4           |             |             |             |             |             |             |             |             |             |             |
|      |                | <del>SERVICED AS ASSEMBLY ONLY. FOR COMPONENTS CONTACT TITAN PUMP AND ENGINE CORP., 43600 GRAND RIVER, NOVI, MICHIGAN.</del> |             |             |             |             |             |             |             |             |             |             |             |
|      |                | # NOT SERVICED; COMPONENTS ARE AVAILABLE. FOR COMPLETE REPLACEMENT USE PUMP KIT SHOWN IN SAME TYPE.                          |             |             |             |             |             |             |             |             |             |             |             |
|      | <b>444687</b>  | PLUG, 1/8" PIPE (12.9550)                                                                                                    |             | 2           |             |             |             |             |             |             |             |             |             |
|      |                | <b>2.2004 - OVERHAUL KIT, FUEL PUMP</b>                                                                                      |             |             |             |             |             |             |             |             |             |             |             |
|      | <b>5196938</b> | & OVERHAUL KIT, 6,8V53                                                                                                       |             | AR          | AR          | AR          | AR          | AR          |             | AR          | AR          | AR          | AR          |
|      | <b>5195078</b> | & OVERHAUL KIT, 2,3,4,6,8V53 & INCLUDES ITEMS IN 2.2007, 2.2070, 2.2089, 2.2093, 2.2130, 2.2160 AND 2.2180.                  |             |             |             |             |             |             |             |             |             |             |             |
|      |                | <b>2.2007 - GASKET, FUEL PUMP TO ENGINE</b>                                                                                  |             |             |             |             |             |             |             |             |             |             |             |
| 2A   | <b>5150193</b> | GASKET, 2,3,4,6,8V53 (5.1010)                                                                                                |             | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 1           |

## 2.2000 FUEL PUMP

PART  
..FIG ... NUMBER ..... NAME AND DESCRIPTION .....

| PART |                                        | TYPES                |             |             |             |             |             |             |             |             |             |             |  |
|------|----------------------------------------|----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| FIG  | NUMBER                                 | NAME AND DESCRIPTION |             |             |             |             |             |             |             |             |             |             |  |
|      |                                        | 1<br>2<br>0          | 1<br>2<br>8 | 1<br>3<br>1 | 1<br>3<br>2 | 1<br>3<br>4 | 1<br>3<br>6 | 1<br>3<br>7 | 1<br>3<br>8 | 1<br>3<br>9 | 1<br>4<br>0 | 1<br>4<br>3 |  |
|      | 2.2220 - FORK, FUEL PUMP COUPLING      |                      |             |             |             |             |             |             |             |             |             |             |  |
| 2A   | 5102257 FORK, 6,8V53                   |                      | 1           | 1           | 1           | 1           |             | 1           | 1           | 1           | 1           | 1           |  |
|      | 2.2230 - COUPLING, FUEL PUMP DRIVE     |                      |             |             |             |             |             |             |             |             |             |             |  |
|      | 5154216 COUPLING, 2,3,4-53             | 1                    |             |             |             |             | 1           |             |             |             |             |             |  |
|      | 2.2235 - PLATE, FUEL PUMP MOUNTING     |                      |             |             |             |             |             |             |             |             |             |             |  |
| 2C   | 5121050 PLATE, 4,6,8V53                |                      |             |             |             | 1           |             | 1           | 1           |             |             | 1           |  |
| 2C   | 5139332 PLATE, 8V53                    |                      |             |             |             |             |             |             |             |             | 1           |             |  |
|      | 2.2260 - ADAPTOR, FUEL PUMP DRIVE      |                      |             |             |             |             |             |             |             |             |             |             |  |
| 2C   | 5125775 ADAPTOR, 6,8V53                |                      | 1           | 1           | 1           |             |             |             |             |             |             |             |  |
| 2C   | 5127266 ADAPTOR, 4,6,8V53              |                      |             |             |             | 1           |             | 1           | 1           | 1           | 1           | 1           |  |
| 2C   | 9409073 BOLT, 1/4"-20X5/8" (12.9001)   |                      | 2           | 2           | 2           |             |             |             |             |             |             |             |  |
| 2C   | 9409035 BOLT, 3/8"-24X1" (12.9001)     |                      |             |             |             |             |             | 2           |             |             |             |             |  |
| 2C   | 9409034 BOLT, 3/8"-24X7/8" (12.9001)   |                      |             |             |             | 2           |             |             | 2           | 2           | 2           | 2           |  |
|      | 2.2290 - GEAR, FUEL PUMP DRIVE         |                      |             |             |             |             |             |             |             |             |             |             |  |
|      | A GEAR ASSY. INCLUDES BUSHING.         |                      |             |             |             |             |             |             |             |             |             |             |  |
| 2B   | 5125767 GEAR ASSY., 6,8V53             |                      |             | 1           | 1           |             |             |             |             |             |             |             |  |
| 2B   | 5125768 GEAR ASSY., 6V53               |                      | 1           |             |             |             |             |             |             |             |             |             |  |
|      | 5196842 BUSHING                        |                      | 1           | 1           | 1           |             |             |             |             |             |             |             |  |
|      | 2.2292 - HUB, FUEL PUMP DRIVE GEAR     |                      |             |             |             |             |             |             |             |             |             |             |  |
| 2B   | 5125774 HUB, 6,8V53                    |                      | 1           | 1           | 1           |             |             |             |             |             |             |             |  |
| 2B   | 9409203 BOLT, 1/2"-13X2 3/4" (12.9001) |                      | 1           | 1           | 1           |             |             |             |             |             |             |             |  |
| 2B   | 5125771 WASHER, THRUST (INNER)         |                      | 2           | 2           | 2           |             |             |             |             |             |             |             |  |
| 2B   | 5126672 WASHER, RETAINER               |                      | 1           | 1           | 1           |             |             |             |             |             |             |             |  |

| ..FIG | PART<br>NUMBER | NAME AND DESCRIPTION                                                                                               | TYPES       |             |             |             |             |             |             |             |             |             |             |             |
|-------|----------------|--------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|       |                |                                                                                                                    | 1<br>4<br>4 | 1<br>4<br>5 | 1<br>4<br>7 | 1<br>4<br>8 | 1<br>5<br>1 | 1<br>5<br>2 | 1<br>5<br>5 | 1<br>5<br>6 | 1<br>5<br>8 | 1<br>5<br>9 | 1<br>6<br>0 | 1<br>6<br>4 |
|       |                | <b>2.2001 - PUMP ASSY., FUEL</b>                                                                                   |             |             |             |             |             |             |             |             |             |             |             |             |
|       |                | SEE ASSEMBLY BREAKDOWN AS INDICATED BELOW.                                                                         |             |             |             |             |             |             |             |             |             |             |             |             |
|       |                | A PUMP KIT INCLUDES A 3/8" INLET PUMP, GASKET IN 2.2007, AND REDUCING BUSHING IN 2.2030.                           |             |             |             |             |             |             |             |             |             |             |             |             |
| 2A    | 5146341 #      | PUMP ASSY., 3.6V53 (L.H.) (3/8" INLET) (PAGE A3)                                                                   | 1           | 1           |             |             |             |             |             |             |             |             |             |             |
| 2A    | 5134714 #      | PUMP ASSY., 4.6V53 (R.H.) (3/8" INLET) (PAGE A1)                                                                   |             |             | 1           | 1           |             |             |             |             |             |             |             |             |
| 2A    | 5146344 #      | PUMP ASSY., 4.6, 8V53 (L.H.) (3/8" INLET) (PAGE A5)                                                                |             |             |             |             | 1           | 1           |             |             |             |             |             |             |
| 2A    | 5146698 #      | PUMP ASSY., 3.6V53 (R.H.) (3/8" INLET) (PAGE A5)                                                                   |             |             |             |             |             |             | 1           | 1           |             |             |             |             |
| 2A    | 5146699        | PUMP ASSY., 3.4, 8V53 (L.H.) (3/8" INLET) (PAGE A5)                                                                |             |             |             |             |             |             |             |             | 1           | 1           |             |             |
|       | 5172926 *      | PUMP ASSY., 2-53 (AUXILIARY) (TUTHILL #00L1, C. C. W.)                                                             |             |             |             |             |             |             |             |             |             |             |             | 1           |
|       | 5101092 @      | PUMP ASSY., 2-53 (AUXILIARY) (TUTHILL #00LA, C. C./C. C. W.)                                                       |             |             |             |             |             |             |             |             |             |             |             | 1           |
| 2A    | 5199560        | PUMP KIT, FUEL 6V53 (L.H.) (PAGE A7)                                                                               | 1           | 1           |             |             |             |             |             |             |             |             |             |             |
| 2A    | 5198875        | PUMP KIT, FUEL 4.6V53 (R.H.) (PAGE A7)                                                                             |             |             | 1           | 1           |             |             |             |             |             |             |             |             |
| 2A    | 5199562        | PUMP KIT, FUEL 8V53 (L.H.) (PAGE A7)                                                                               |             |             |             |             | 1           | 1           |             |             |             |             |             |             |
|       | 5199561        | PUMP KIT, FUEL 6V53 (R.H.) (PAGE A7)                                                                               |             |             |             |             |             |             |             |             |             |             | 1           |             |
|       | 5199734        | PUMP KIT, FUEL 3.6V53 (R.H.) (PAGE D1)                                                                             |             |             |             |             |             |             | 1           | 1           |             |             |             |             |
|       | 5146393        | BUSHING, 3/8"X1/2" RED. (INLET & OUTLET)                                                                           |             |             |             |             |             |             |             |             |             |             |             | 2           |
|       | 5145009        | PLUG, 1/8" PIPE (12.9550)                                                                                          | 2           | 2           | 2           | 2           | 2           | 2           | 1           |             | 1           | 1           | 2           |             |
|       | 5131685        | BOLT, 5/16"-18X7/8" (W/ NYLON INSERT)                                                                              | 3           | 3           | 3           | 3           | 3           | 3           | 3           | 3           | 3           | 3           | 3           |             |
|       | 179860         | BOLT, 7/16"-14X1 1/4" (12.9001)                                                                                    |             |             |             |             |             |             |             |             |             |             |             | 2           |
|       | 103322         | LOCKWASHER, 7/16" (12.9200)                                                                                        |             |             |             |             |             |             |             |             |             |             |             | 2           |
|       |                | # NOT SERVICED, COMPONENTS ARE AVAILABLE. FOR COMPLETE REPLACEMENT USE PUMP KIT SHOWN IN SAME TYPE.                |             |             |             |             |             |             |             |             |             |             |             |             |
|       |                | * REPLACED BY 5101092 PLUS (2) 5146393 BUSHINGS IN 2.2001.                                                         |             |             |             |             |             |             |             |             |             |             |             |             |
|       |                | @ SERVICE AS AN ASSY. ONLY. FOR COMPONENTS CONTACT TUTHILL PUMP CO., CHICAGO, ILLINOIS. FURNISH THEIR PART NUMBER. |             |             |             |             |             |             |             |             |             |             |             |             |
|       |                | <b>2.2004 - OVERHAUL KIT, FUEL PUMP</b>                                                                            |             |             |             |             |             |             |             |             |             |             |             |             |
|       | 5195078        | OVERHAUL KIT, 2,3,4,6,8V53                                                                                         | AR          | AR          | AR          | AR          | AR          | AR          | AR          | AR          | AR          | AR          | AR          |             |

## 2.2000 FUEL PUMP

| PART<br>FIG NUMBER NAME AND DESCRIPTION                                                                                                                                                                                                                             |           |                                                                                                                                                                                                                                                                                                                                            | COLUMN |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                                                                                                                                                                                                                                                                     |           |                                                                                                                                                                                                                                                                                                                                            | A      | B | C | D | E | F | G | H | I | J | K | L | M | N |
| <b>2.2001 - PUMP ASSY., FUEL</b>                                                                                                                                                                                                                                    |           |                                                                                                                                                                                                                                                                                                                                            |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2A                                                                                                                                                                                                                                                                  | 5111386   | * PUMP ASSY., 2,3,4-53 (C,D ENG.)<br>GEAR TYPE (1/4" INLET) (5199562)                                                                                                                                                                                                                                                                      | 1      |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2A                                                                                                                                                                                                                                                                  | 5134715   | * PUMP ASSY., 2,3,4-53 (C,D ENG.)<br>GEAR TYPE (3/8" INLET) (5199562)                                                                                                                                                                                                                                                                      |        | 1 |   |   |   |   |   |   |   |   |   |   |   |   |
| 2A                                                                                                                                                                                                                                                                  | 5128212   | * PUMP ASSY., 6V53 (R.H.) (3/8" INLET)<br>(5146704) (1)                                                                                                                                                                                                                                                                                    |        |   | 1 |   |   |   |   |   |   |   |   |   |   |   |
| 2A                                                                                                                                                                                                                                                                  | 5108519   | * PUMP ASSY., 6V53 (R.H.) (1/4" INLET)<br>(HIGH CAPACITY) (5199734)                                                                                                                                                                                                                                                                        |        |   |   | 1 |   |   |   |   |   |   |   |   |   |   |
| 2A                                                                                                                                                                                                                                                                  | 5134703   | * PUMP ASSY., 6,8V53 (R.H.)<br>(3/8" INLET) (5199734)                                                                                                                                                                                                                                                                                      |        |   |   |   | 1 |   |   |   |   |   |   |   |   |   |
| 2A                                                                                                                                                                                                                                                                  | 5136276   | * PUMP ASSY., 8V53 (L.H.) (3/8" INLET)<br>(5199562)                                                                                                                                                                                                                                                                                        |        |   |   |   |   | 1 |   |   |   |   |   |   |   |   |
|                                                                                                                                                                                                                                                                     | 5140102 @ | * PUMP ASSY., 6V53 (R.H.)<br>(3/8" INLET) (5146697) (1)                                                                                                                                                                                                                                                                                    |        |   |   |   |   |   | 1 |   |   |   |   |   |   |   |
| 2A                                                                                                                                                                                                                                                                  | 5134701 @ | * PUMP ASSY., 6V53 (L.H.)<br>(3/8" INLET) (5146699)                                                                                                                                                                                                                                                                                        |        |   |   |   |   |   |   | 1 |   |   |   |   |   |   |
| 2A                                                                                                                                                                                                                                                                  | 5134702 @ | * PUMP ASSY., 3,6V53 (R.H.)<br>(3/8" INLET) (5146698) (1)                                                                                                                                                                                                                                                                                  |        |   |   |   |   |   |   |   | 1 |   |   |   |   |   |
| 2A                                                                                                                                                                                                                                                                  | 5146341   | * PUMP ASSY., 4,6V53 (L.H.)<br>(3/8" INLET) (5199560)<br>* NOT SERVICED; USE PART NUMBER IN<br>PARENTHESES.<br><del>* NOT SERVICED; USE PART NUMBER IN</del><br><del>PARENTHESES AND QUANTITY OF 5145000</del><br><del>PLUG SHOWN IN PARENTHESES.</del><br><del>* USE WHEN FUEL TANK IS MOUNTED</del><br><del>HIGHER THAN FUEL PUMP.</del> |        |   |   |   |   |   |   |   |   | 1 |   |   |   |   |
| <b>2.2010 - BODY, FUEL PUMP</b>                                                                                                                                                                                                                                     |           |                                                                                                                                                                                                                                                                                                                                            |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2A                                                                                                                                                                                                                                                                  | 5128826 # | BODY ASSY., 6V53 (INCLUDES DRIVEN<br>GEAR SHAFT WHICH IS NOT SOLD<br>SEPARATELY)                                                                                                                                                                                                                                                           |        |   | 1 |   |   |   |   |   |   |   |   |   |   |   |
| 2A                                                                                                                                                                                                                                                                  | 5177293   | * BODY, 2,3,4-53 (5146337) (1)                                                                                                                                                                                                                                                                                                             | 1      | 1 |   |   |   |   |   |   |   |   |   |   |   |   |
| 2A                                                                                                                                                                                                                                                                  | 5100310   | * BODY, 6,8V53 (5146338) (1)                                                                                                                                                                                                                                                                                                               |        |   |   | 1 | 1 |   | 1 |   |   |   |   |   |   |   |
| 2A                                                                                                                                                                                                                                                                  | 5126528   | * BODY, 8V53 (5146337) (3)                                                                                                                                                                                                                                                                                                                 |        |   |   |   |   | 1 |   |   |   |   |   |   |   |   |
| 2A                                                                                                                                                                                                                                                                  | 5135049   | * BODY, 6V53 (LUBRITED) (5146681) (1)                                                                                                                                                                                                                                                                                                      |        |   |   |   |   |   |   | 1 |   |   |   |   |   |   |
| 2A                                                                                                                                                                                                                                                                  | 5135048   | * BODY, 3,6V53 (LUBRITED) (5146682) (1)                                                                                                                                                                                                                                                                                                    |        |   |   |   |   |   |   |   | 1 |   |   |   |   |   |
| 2A                                                                                                                                                                                                                                                                  | 5146337   | BODY, 4,6V53                                                                                                                                                                                                                                                                                                                               |        |   |   |   |   |   |   |   |   | 1 |   |   |   |   |
| 2A                                                                                                                                                                                                                                                                  | 141195    | PIN, 1/4"X5/8" DOWEL (12.9290)                                                                                                                                                                                                                                                                                                             | 2      | 2 |   | 2 | 2 | 2 | 2 | 2 | 2 | 2 |   |   |   |   |
| <del>* NOT SERVICED; SUPERSEDED BY</del><br><del>5146342 PLUS 1 5145000 PLUG AND</del><br><del>1 5109550 BUSHING.</del><br><del>* NOT SERVICED; USE PART NUMBER IN</del><br><del>PARENTHESES AND QUANTITY OF 5145000</del><br><del>PLUG SHOWN IN PARENTHESES.</del> |           |                                                                                                                                                                                                                                                                                                                                            |        |   |   |   |   |   |   |   |   |   |   |   |   |   |

5 3 M P C E N G I N E S  
2.2000 FUEL PUMP

DETROIT DIESEL

|     |             |                                                             | COLUMN |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
|-----|-------------|-------------------------------------------------------------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| FIG | PART NUMBER | NAME AND DESCRIPTION                                        | A      | B | C | D | E | F | G | H | I | J | K | L | M | N |  |  |
|     | 2.2070      | SEAL, FUEL PUMP OIL                                         |        |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| 2A  | 5230007     | SEAL                                                        | 2      | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |   |   |  |  |
|     | 2.2087      | GEAR, FUEL PUMP (DRIVE)                                     |        |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
|     | 5174975     | GEAR                                                        | 1      | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |   |  |  |
|     | 147481      | BALL, 1/8" DIA. STEEL (12.9670)                             | 1      | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |   |  |  |
|     | 2.2089      | SHAFT, FUEL PUMP DRIVEN                                     |        |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
|     |             | A SHAFT ASSY. INCLUDES GEAR WHICH IS NOT SOLD SEPARATELY.   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| 2A  | 5181747     | SHAFT                                                       | 1      | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |   |  |  |
|     | 2.2093      | SHAFT, FUEL PUMP                                            |        |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
|     |             | A SHAFT ASSY. INCLUDES SHAFT IN 2.2093 AND ITEMS IN 2.2087. |        |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| 2A  | 5181746     | SHAFT ASSY. (DRIVE)                                         | 1      | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |   |  |  |
|     | 5178700     | SHAFT (DRIVE)                                               | 1      | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |   |  |  |
|     | 2.2130      | VALVE, FUEL PUMP                                            |        |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| 2A  | 5174973     | VALVE                                                       | 1      | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |   |  |  |
| 2A  | 103709      | PIN, 5/32"x1" STRAIGHT (12.9300)                            | 1      | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |   |  |  |
|     | 2.2160      | SPRING, FUEL PUMP VALVE RETAINING                           |        |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| 2A  | 5184530     | SPRING                                                      | 1      | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |   |  |  |
|     | 2.2170      | PLUG, FUEL PUMP VALVE                                       |        |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| 2A  | 5174971     | PLUG                                                        | 1      | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |   |  |  |
|     | 2.2180      | GASKET, FUEL PUMP VALVE PLUG                                |        |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| 2A  | 5161003     | GASKET                                                      | 1      | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |   |  |  |

## 2.2000 FUEL PUMP

| PART                                                        |         |                                   | COLUMN |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------------------------------------------|---------|-----------------------------------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FIG                                                         | NUMBER  | NAME AND DESCRIPTION              | A      | B | C | D | E | F | G | H | I | J | K | L | M | N |
| 2.2089 - SHAFT, FUEL PUMP DRIVEN (CONT'D)                   |         |                                   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2A                                                          | 5100313 | SHAFT ASSY., 6,8V53               |        |   |   | 1 | 1 |   | 1 |   |   |   |   |   |   |   |
| 2A                                                          | 5135040 | SHAFT ASSY., 3,6V53               |        |   |   |   |   |   |   | 1 | 1 |   |   |   |   |   |
| 2.2093 - SHAFT, FUEL PUMP                                   |         |                                   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
| A SHAFT ASSY. INCLUDES SHAFT IN 2.2093 AND ITEMS IN 2.2087. |         |                                   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2A                                                          | 5181746 | SHAFT ASSY., 2,3,4,6,8V53 (DRIVE) | 1      | 1 |   |   |   | 1 |   |   |   | 1 |   |   |   |   |
| 2A                                                          | 5128216 | SHAFT ASSY., 6V53 (DRIVE)         |        |   | 1 |   |   |   |   |   |   |   |   |   |   |   |
| 2A                                                          | 5100314 | SHAFT ASSY., 6,8V53 (DRIVE)       |        |   |   | 1 | 1 |   | 1 |   |   |   |   |   |   |   |
| 2A                                                          | 5135039 | SHAFT ASSY., 3,6V53 (DRIVE)       |        |   |   |   |   |   |   | 1 | 1 |   |   |   |   |   |
|                                                             | 5178700 | SHAFT, 2,3,4,8V53 (DRIVE)         | 1      | 1 |   |   |   | 1 |   |   |   |   |   |   |   |   |
|                                                             | 5108444 | SHAFT, 3,6,8V53 (DRIVE)           |        |   | 1 | 1 | 1 |   | 1 | 1 | 1 |   |   |   |   |   |
| 2.2130 - VALVE, FUEL PUMP                                   |         |                                   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2A                                                          | 5174973 | VALVE                             | 1      | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |   |   |   |
| 2A                                                          | 103709  | PIN, 5/32"X1" STRAIGHT (12.9300)  | 1      | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |   |   |   |
| 2.2160 - SPRING, FUEL PUMP VALVE RETAINING                  |         |                                   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2A                                                          | 5184530 | SPRING                            | 1      | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |   |   |   |
| 2.2170 - PLUG, FUEL PUMP VALVE                              |         |                                   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2A                                                          | 5174971 | PLUG                              | 1      | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |   |   |   |
| 2.2180 - GASKET, FUEL PUMP VALVE PLUG                       |         |                                   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2A                                                          | 5161003 | GASKET                            | 1      | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |   |   |   |

## 2.2000 FUEL PUMP

FIG . . . PART  
NUMBER . . . NAME AND DESCRIPTION . . .

COLUMN

## 2.2030 - COVER, FUEL PUMP

2A 5174962 \* COVER, 2,3,4,6,8V53 . . . . .  
2A 5134560 COVER, 2,3,4,6,8V53 . . . . .  
2A 5128219 @ COVER, 6V53 . . . . .  
2A 5134628 COVER, 6,8V53 . . . . .  
2A 5134708 COVER, 6V53 . . . . .  
2A 5134707 + COVER, 3,6V53 . . . . .  
2A 3719219 BOLT, 1/4"-20X3/4" (WITH LOCKWASHER) . . . . .  
2A 179803 BOLT, 1/4"-20X1 3/4" (12.9001) . . . . .  
2A 103319 LOCKWASHER, 1/4" (12.9200) . . . . .

| A | B | C | D | E | F | G | H | I | J | K | L | M | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 |   |   | 1 |   | 1 |   |   |   | 1 |   |   |   |   |
|   | 1 |   |   |   | 1 |   |   |   |   |   |   |   |   |
|   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |
|   |   |   |   | 1 |   | 1 |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |
| 8 | 8 | 4 | 8 | 8 | 8 |   |   |   | 8 |   |   |   |   |
|   |   | 4 |   |   |   |   |   |   |   |   |   |   |   |
|   |   | 4 |   |   |   |   |   |   |   |   |   |   |   |

~~NOT SERVICED, USE 5134560 FOR L.H.~~  
~~ROTATING PUMPS OR 5134628 FOR R.H.~~  
~~ROTATING PUMPS AND INCLUDE 5134560~~  
~~REDUCING BUSHING IN 2.2030.~~  
~~NOT SERVICED, USE PART NUMBER IN~~  
~~PARENTHESES AND QUANTITY OF 5145003~~  
~~PLUG SHOWN IN PARENTHESES.~~  
~~OBsolete~~

## 2.2035 - VALVE ASSY., FUEL PUMP CHECK

9417463 PIN (12.9275) . . . . .  
5134674 PLUG, 3/8" SPECIAL (2.2170) . . . . .  
5134673 BALL, 1/4" NYLON (2.2130) . . . . .  
5152148 WASHER, 3/8"X9/16" SEAL (2.4050) . . . . .

|  |  |  |  |  |  |  |   |   |  |  |  |  |  |
|--|--|--|--|--|--|--|---|---|--|--|--|--|--|
|  |  |  |  |  |  |  | 1 | 1 |  |  |  |  |  |
|  |  |  |  |  |  |  | 1 | 1 |  |  |  |  |  |
|  |  |  |  |  |  |  | 1 | 1 |  |  |  |  |  |
|  |  |  |  |  |  |  | 1 | 1 |  |  |  |  |  |

## 2.2070 - SEAL, FUEL PUMP OIL

2A 5230007 SEAL . . . . .

|   |   |   |   |   |   |   |   |   |   |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|--|--|--|--|
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|--|--|--|--|

## 2.2087 - GEAR, FUEL PUMP (DRIVE)

5174975 GEAR . . . . .  
5128217 GEAR . . . . .  
147481 BALL, 1/8" DIA. STEEL (12.9670) . . . . .

|   |   |   |   |   |   |   |   |   |   |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|--|--|--|--|
| 1 | 1 |   |   |   | 1 |   |   |   | 1 |  |  |  |  |
|   |   | 1 | 1 | 1 |   | 1 | 1 | 1 |   |  |  |  |  |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |  |  |  |  |

## 2.2088 - GEAR, FUEL PUMP DRIVEN

5124529 + GEAR . . . . .  
~~OBsolete CONVERT TO 5146342 PUMP~~  
~~ASSY.~~

|  |  |   |  |  |  |  |  |  |  |  |  |  |  |
|--|--|---|--|--|--|--|--|--|--|--|--|--|--|
|  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |
|--|--|---|--|--|--|--|--|--|--|--|--|--|--|

## 2.2089 - SHAFT, FUEL PUMP DRIVEN

A SHAFT ASSY. INCLUDES GEAR WHICH IS  
NOT SOLD SEPARATELY.

2A 5181747 SHAFT ASSY., 2,3,4,6,8V53 . . . . .

|   |   |  |  |  |   |  |  |  |   |  |  |  |  |
|---|---|--|--|--|---|--|--|--|---|--|--|--|--|
| 1 | 1 |  |  |  | 1 |  |  |  | 1 |  |  |  |  |
|---|---|--|--|--|---|--|--|--|---|--|--|--|--|

## 2.2000 FUEL PUMP

|                                       |                |                      | COLUMN |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------------|----------------|----------------------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FIG                                   | PART<br>NUMBER | NAME AND DESCRIPTION | A      | B | C | D | E | F | G | H | I | J | K | L | M | N |
| 2.2170 - PLUG, FUEL PUMP VALVE        |                |                      |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2A                                    | 5174971        | PLUG                 | 1      | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |   |   |   |
| 2.2180 - GASKET, FUEL PUMP VALVE PLUG |                |                      |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2A                                    | 5161003        | GASKET               | 1      | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |   |   |   |

## 2.2000 FUEL PUMP

| PART                                                      |                               | COLUMN                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------------------------------|-------------------------------|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FIG                                                       | NUMBER                        | NAME AND DESCRIPTION                 | A | B | C | D | E | F | G | H | I | J | K | L | M | N |
| 2.2001 - PUMP ASSY., FUEL                                 |                               |                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                           | 5198874                       | PUMP KIT, FUEL 2,3,4,6V53            | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                           | 5199561                       | PUMP KIT, FUEL 6V53                  |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                           | 5199560                       | PUMP KIT, FUEL 6V53                  |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |
|                                                           | 5198875                       | PUMP KIT, FUEL 2,3,4-53              |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |
|                                                           | 5199562                       | PUMP KIT, FUEL 8V53                  |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |
|                                                           | 5199734                       | PUMP KIT, FUEL 6,8V53                |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |
| 2.2007 - GASKET, FUEL PUMP TO ENGINE                      |                               |                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2A                                                        | 5150193                       | GASKET                               | 1 | 1 | 1 | 1 | 1 | 1 |   |   |   |   |   |   |   |   |
| 2.2010 - BODY, FUEL PUMP                                  |                               |                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2A                                                        | 5146337                       | BODY, 2,3,4,6,8V53                   | 1 |   | 1 |   | 1 |   |   |   |   |   |   |   |   |   |
| 2A                                                        | 5113776                       | BODY, 2,3,4,6V53                     |   | 1 |   | 1 |   |   |   |   |   |   |   |   |   |   |
| 2A                                                        | 5146338                       | BODY, 8V53                           |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |
| 2A                                                        | 5145009                       | PLUG, 1/8" PIPE (12.9550)            | 2 | 2 | 2 | 2 | 2 | 2 |   |   |   |   |   |   |   |   |
| 2A                                                        | 141195                        | PIN, 1/4"X5/8" DOWEL (12.9290)       | 2 | 2 | 2 | 2 | 2 | 2 |   |   |   |   |   |   |   |   |
| 2.2030 - COVER, FUEL PUMP                                 |                               |                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2A                                                        | 5134560                       | COVER, 2,3,4,6,8V53                  | 1 |   | 1 |   | 1 |   |   |   |   |   |   |   |   |   |
| 2A                                                        | 5134628                       | COVER, 2,3,4,6,8V53                  |   | 1 |   | 1 |   | 1 |   |   |   |   |   |   |   |   |
| 2A                                                        | 5198558                       | BUSHING, 3/8"X3/4"                   | 1 | 1 | 1 | 1 | 1 | 1 |   |   |   |   |   |   |   |   |
| 2A                                                        | 3719219                       | BOLT, 1/4"-20X3/4" (WITH LOCKWASHER) | 8 | 8 | 8 | 8 | 8 | 8 |   |   |   |   |   |   |   |   |
| 2.2070 - SEAL, FUEL PUMP OIL                              |                               |                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2A                                                        | <del>5230007</del><br>5107223 | SEAL                                 | 2 | 2 | 2 | 2 | 2 | 2 |   |   |   |   |   |   |   |   |
| 2.2087 - GEAR, FUEL PUMP (DRIVE)                          |                               |                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2A                                                        | 5174975                       | GEAR, 2,3,4,6,8V53                   | 1 | 1 | 1 | 1 | 1 |   |   |   |   |   |   |   |   |   |
| 2A                                                        | 5128217                       | GEAR, 8V53                           |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |
| 2A                                                        | 147481                        | BALL, 1/8" DIA. STEEL (12.9670)      | 1 | 1 | 1 | 1 | 1 |   |   |   |   |   |   |   |   |   |
| 2.2089 - SHAFT, FUEL PUMP DRIVEN                          |                               |                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| A SHAFT ASSY. INCLUDES GEAR WHICH IS NOT SOLD SEPARATELY. |                               |                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2A                                                        | 5181747                       | SHAFT ASSY., 2,3,4,6,8V53            | 1 | 1 | 1 | 1 | 1 |   |   |   |   |   |   |   |   |   |
| 2A                                                        | 5100313                       | SHAFT ASSY., 8V53                    |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |

~~2.2000A FUEL PUMP DRAIN~~

| PART    |        | NAME AND DESCRIPTION                                                                                      | 1<br>0 | TYPES |  |  |  |  |  |  |  |  |  |  |  |
|---------|--------|-----------------------------------------------------------------------------------------------------------|--------|-------|--|--|--|--|--|--|--|--|--|--|--|
| FIG     | NUMBER |                                                                                                           |        |       |  |  |  |  |  |  |  |  |  |  |  |
|         | 2.2300 | TUBE, FUEL PUMP DRAIN                                                                                     |        |       |  |  |  |  |  |  |  |  |  |  |  |
| 5132105 | *      | TUBE ASSY., 2-53 (DEV. L. 14.38")                                                                         | 1      |       |  |  |  |  |  |  |  |  |  |  |  |
| 137404  |        | CONNECTOR, 3/16" INV. FL. TUBE 1/8"<br>P.T. (12.9460)<br>* NO LONGER AVAILABLE. CUSTOMER TO<br>FABRICATE. | 1      |       |  |  |  |  |  |  |  |  |  |  |  |
|         | 2.2320 | CLIP, FUEL PUMP DRAIN TUBE                                                                                |        |       |  |  |  |  |  |  |  |  |  |  |  |
| 5176668 |        | CLIP (1.1100)                                                                                             | 1      |       |  |  |  |  |  |  |  |  |  |  |  |

5 3 M P C E N G I N E S  
2.2000 FUEL PUMP

DETROIT DIESEL

|     |                |                                                                | COLUMN |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----|----------------|----------------------------------------------------------------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FIG | PART<br>NUMBER | NAME AND DESCRIPTION                                           | A      | B | C | D | E | F | G | H | I | J | K | L | M | N |
|     |                | <b>2.2093 - SHAFT, FUEL PUMP</b>                               |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
|     |                | A SHAFT ASSY. INCLUDES SHAFT IN<br>2.2093 AND ITEMS IN 2.2087. |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2A  | 5181746        | SHAFT ASSY., 2,3,4,6,8V53 (DRIVE)                              | 1      | 1 | 1 | 1 | 1 |   |   |   |   |   |   |   |   |   |
| 2A  | 5178700        | SHAFT, 2,3,4,6,8V53 (DRIVE)                                    | 1      | 1 | 1 | 1 | 1 | 1 |   |   |   |   |   |   |   |   |
| 2A  | 5146705        | SHAFT ASSY., 8V53 (DRIVE)                                      |        |   |   |   |   | 1 |   |   |   |   |   |   |   |   |
|     |                | <b>2.2130 - VALVE, FUEL PUMP</b>                               |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2A  | 5174973        | VALVE                                                          | 1      | 1 | 1 | 1 | 1 | 1 |   |   |   |   |   |   |   |   |
| 2A  | 103709         | PIN, 5/32"X1" STRAIGHT (12.9300)                               | 1      | 1 | 1 | 1 | 1 | 1 |   |   |   |   |   |   |   |   |
|     |                | <b>2.2160 - SPRING, FUEL PUMP VALVE RETAINING</b>              |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2A  | 5184530        | SPRING                                                         | 1      | 1 | 1 | 1 | 1 | 1 |   |   |   |   |   |   |   |   |
|     |                | <b>2.2170 - PLUG, FUEL PUMP VALVE</b>                          |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2A  | 5174971        | PLUG                                                           | 1      | 1 | 1 | 1 | 1 | 1 |   |   |   |   |   |   |   |   |
|     |                | <b>2.2180 - GASKET, FUEL PUMP VALVE PLUG</b>                   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2A  | 5161003        | GASKET                                                         | 1      | 1 | 1 | 1 | 1 | 1 |   |   |   |   |   |   |   |   |

## 2.3000A FUEL FILTER

| PART                                       |         | TYPES                                       |     |     |     |     |     |     |     |     |     |     |     |     |
|--------------------------------------------|---------|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| FIG                                        | NUMBER  | NAME AND DESCRIPTION                        | 352 | 357 | 358 | 362 | 364 | 371 | 376 | 397 | 400 | 403 | 408 | 412 |
| 2.3001 - STRAINER ASSY., FUEL              |         |                                             |     |     |     |     |     |     |     |     |     |     |     |     |
| SEE ASSEMBLY BREAKDOWN PAGE A1.            |         |                                             |     |     |     |     |     |     |     |     |     |     |     |     |
| 3C                                         | 6436075 | STRAINER ASSY. (8") (T-74)                  | 1   |     | 1   |     |     | 1   |     |     |     |     |     |     |
|                                            | 5577342 | STRAINER ASSY. (TL-70)                      |     |     |     |     |     |     | 1   |     |     | 1   |     | 1   |
| 3C                                         | 5575568 | STRAINER ASSY. (6") (T-60)                  |     |     |     |     |     |     |     |     | 1   |     | 1   |     |
|                                            | 5575824 | STRAINER ASSY. (8") (T-552)                 |     | 1   |     |     |     |     |     |     |     |     |     |     |
|                                            | 5136560 | STRAINER ASSY.                              |     |     |     |     | 1   |     |     |     |     |     |     |     |
| 3D                                         | 6438839 | CARTRIDGE (SPIN ON) (T-815)                 | 1   |     | 1   |     |     | 1   |     |     |     |     |     |     |
| 3D                                         | 5148023 | COVER (SPIN ON)                             | 1   |     | 1   |     |     | 1   |     |     |     |     |     |     |
| 3D                                         | 6439603 | DECAL (SPIN ON)                             | 1   |     | 1   |     |     | 1   |     |     |     |     |     |     |
|                                            | 6436060 | DECAL                                       | 1   |     | 1   |     |     | 1   |     |     |     |     |     |     |
|                                            | 5577249 | DECAL                                       |     |     |     |     |     |     | 1   |     |     | 1   |     | 1   |
|                                            | 5575197 | DECAL                                       |     |     |     |     |     |     |     | 1   |     |     | 1   |     |
|                                            | 5575062 | DECAL                                       |     | 1   |     |     |     |     |     | 1   |     |     |     |     |
|                                            | 5105047 | DECAL (PORTUGUESE)                          |     |     |     |     |     |     |     | 1   |     |     | 1   |     |
|                                            | 5118896 | SPACER, 1 1/4" O.D. X 3/8" I.D. X 3 3/16" L |     |     |     |     |     |     | 1   |     |     |     |     |     |
|                                            | 5121182 | PLUG, 1/4" PIPE (2.4015)                    |     |     |     |     |     |     |     |     |     | 2   |     |     |
|                                            | 114674  | SCREW, 3/8"-16X1 1/4" (12.9030)             |     |     |     |     |     |     |     |     | 2   |     | 2   | 2   |
|                                            | 186679  | BOLT, 3/8"-16X1 1/4" (12.9001)              |     |     | 2   |     |     |     |     |     |     |     |     |     |
|                                            | 186619  | BOLT, 3/8"-16X1 1/8" (12.9001)              |     |     |     |     |     |     |     | 2   |     |     |     |     |
|                                            | 179846  | BOLT, 3/8"-16X1 7/8" (12.9001)              |     |     |     |     |     |     | 2   |     |     |     |     |     |
|                                            | 103321  | LOCKWASHER, 3/8" (12.9200)                  |     |     | 2   |     |     |     | 2   | 2   | 2   |     | 2   |     |
|                                            | 102635  | NUT, 3/8"-16 HEX. (12.9120)                 |     |     |     |     |     |     | 2   |     | 2   |     | 2   | 2   |
| <del>* EFFECTIVE WITH 3D 100720.</del>     |         |                                             |     |     |     |     |     |     |     |     |     |     |     |     |
| <del>4D 98702, 6D 91862 AND 8D 5550.</del> |         |                                             |     |     |     |     |     |     |     |     |     |     |     |     |
| 2.3260 - BRACKET, FUEL STRAINER MOUNTING   |         |                                             |     |     |     |     |     |     |     |     |     |     |     |     |
|                                            | 5167429 | BRACKET                                     |     |     | 1   |     |     |     |     |     |     |     |     |     |
|                                            | 5138051 | BRACKET                                     |     |     |     |     |     |     |     |     | 1   |     | 1   |     |
|                                            | 5121173 | BRACKET                                     |     |     |     |     |     |     |     |     |     |     |     | 1   |
|                                            | 5121182 | PLUG, 1/4" PIPE (2.4015)                    |     |     |     |     |     |     |     |     |     |     |     | 1   |
|                                            | 5145014 | PLUG, 3/8" PIPE (12.9550)                   |     |     |     |     |     |     |     |     | 1   |     | 1   |     |
|                                            | 179816  | BOLT, 5/16"-18X3/4" (12.9001)               |     |     |     |     |     |     |     |     |     |     |     | 2   |
|                                            | 186625  | BOLT, 5/16"-18X7/8" (12.9001)               |     |     |     |     |     |     |     |     | 2   |     | 2   |     |
|                                            | 179839  | BOLT, 3/8"-16X1" (12.9001)                  |     |     | 2   |     |     |     |     |     |     |     |     |     |
|                                            | 103321  | LOCKWASHER, 3/8" (12.9200)                  |     |     | 2   |     |     |     |     |     |     |     |     |     |
| 2.3310 - FILTER ASSY., FUEL                |         |                                             |     |     |     |     |     |     |     |     |     |     |     |     |
| SEE ASSEMBLY BREAKDOWN PAGE B1.            |         |                                             |     |     |     |     |     |     |     |     |     |     |     |     |
| 3B                                         | 5574533 | FILTER ASSY. (8") (T-65)                    | 1   | 1   | 1   | 1   |     | 1   |     | 1   |     |     |     |     |
| 3B                                         | 5573949 | FILTER ASSY. (4") (T-58)                    |     |     |     |     | 1   |     |     |     | 1   |     | 1   |     |
|                                            | 5578475 | FILTER ASSY. (4") (T-71MS)                  |     |     |     |     |     |     | 1   |     |     | 1   |     | 1   |
| 3D                                         | 6438840 | CARTRIDGE (SPIN ON)                         | 1   | 1   | 1   | 1   |     | 1   |     | 1   |     |     |     |     |

## 2.3000A FUEL FILTER

FIG . . . PART  
NUMBER . . . NAME AND DESCRIPTION . . .

| PART   |                                         | TYPES                              |             |             |             |             |             |             |             |             |             |             |             |
|--------|-----------------------------------------|------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| FIG    | NUMBER                                  | NAME AND DESCRIPTION               |             |             |             |             |             |             |             |             |             |             |             |
|        |                                         | 3<br>5<br>2                        | 3<br>5<br>7 | 3<br>5<br>8 | 3<br>6<br>2 | 3<br>6<br>4 | 3<br>7<br>1 | 3<br>7<br>6 | 3<br>9<br>7 | 4<br>0<br>0 | 4<br>0<br>3 | 4<br>0<br>8 | 4<br>1<br>2 |
|        | 2.3310 - FILTER ASSY., FUEL<br>(CONT'D) |                                    |             |             |             |             |             |             |             |             |             |             |             |
| 3D     | 5148171                                 | COVER (SPIN ON)                    | 1           | 1           | 1           | 1           | 1           |             | 1           |             |             |             |             |
|        | 6439604                                 | DECAL (SPIN ON)                    | 1           | 1           | 1           | 1           | 1           |             | 1           |             |             |             |             |
|        | 5574516                                 | DECAL                              | 1           | 1           | 1           | 1           | 1           |             | 1           |             |             |             |             |
|        | 5574083                                 | DECAL                              |             |             |             | 1           |             |             |             | 1           |             | 1           |             |
|        | 5147408                                 | DECAL                              |             |             |             |             |             | 1           |             |             | 1           |             | 1           |
|        | 5105046                                 | DECAL (PORTUGUESE)                 |             |             |             | 1           |             |             |             | 1           |             | 1           |             |
|        | 5121182                                 | PLUG, 1/4" PIPE (2.4015)           |             |             |             |             |             |             | 2           | 2           | 1           |             |             |
|        | 180121                                  | BOLT, 3/8"-16X7/8" (12.9001)       |             |             |             |             |             |             |             | 2           |             | 2           |             |
|        | 179838                                  | BOLT, 3/8"-16X7/8" (12.9001)       |             | 2           |             |             |             |             |             |             |             |             |             |
| 186622 | <del>186679</del>                       | BOLT, 3/8"-16X1 1/4" (12.9001)     | 2           | 2           | 2           |             |             | 2           |             |             |             |             |             |
|        | 181370                                  | BOLT, 3/8"-24X1 1/4" (12.9001)     |             |             | 2           | 2           |             |             |             |             |             |             |             |
|        | 181371                                  | BOLT, 3/8"-24X1 3/8" (12.9001)     |             |             |             |             |             |             |             |             |             |             |             |
|        | 181374                                  | BOLT, 3/8"-24X1 1/2" (12.9001)     |             |             |             |             |             |             |             |             |             | 2           |             |
|        | 103321                                  | LOCKWASHER, 3/8" (12.9200)         | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           |             | 2           |             |
|        | 102635                                  | NUT, 3/8"-16 HEX. (12.9120)        | 2           |             | 2           | 2           | 2           | 2           |             |             |             |             |             |
|        | 123321                                  | NUT, 3/8"-16 HEX. (CAD.) (12.9120) |             |             |             |             |             |             | 2           |             |             |             |             |
|        | 117049                                  | NUT, 3/8"-24 HEX. (12.9120)        |             |             | 2           | 2           | 2           |             |             |             |             | 2           |             |
|        | 2.3530 - BRACKET, FUEL FILTER MOUNTING  |                                    |             |             |             |             |             |             |             |             |             |             |             |
|        | 5100953                                 | BRACKET                            |             |             |             | 1           | 1           |             |             |             |             |             |             |
|        | 5127825                                 | BRACKET                            |             |             |             |             | 1           |             |             |             |             |             |             |
|        | 5129229                                 | BRACKET                            | 1           |             | 1           |             |             |             |             |             |             |             |             |
|        | 5122568                                 | BRACKET                            |             | 1           |             |             |             |             |             |             |             |             |             |
|        | 5136303                                 | BRACKET                            |             |             |             |             |             | 1           |             |             |             |             |             |
|        | 5138175                                 | BRACKET                            |             |             |             |             |             |             | 1           |             |             |             |             |
|        | 5109645                                 | BRACKET                            |             |             |             |             |             |             |             | 1           |             | 1           |             |
|        | 180121                                  | BOLT, 3/8"-16X7/8" (12.9001)       |             |             |             | 2           |             |             |             | 2           |             | 2           |             |
|        | 179839                                  | BOLT, 3/8"-16X1" (12.9001)         |             | 2           |             | 2           |             | 2           |             |             |             |             |             |
|        | 181371                                  | BOLT, 3/8"-24X1 3/8" (12.9001)     |             |             |             |             |             |             | 2           |             |             |             |             |
|        | 180176                                  | BOLT, 1/2"-13X1 3/8" (12.9001)     | 2           |             | 2           |             |             |             |             |             |             |             |             |
|        | 103321                                  | LOCKWASHER, 3/8" (12.9200)         |             | 2           |             | AR          | AR          | 2           | 2           | 2           |             | 2           |             |
|        | 117049                                  | NUT, 3/8"-24 HEX. (12.9120)        |             |             |             |             |             |             | 2           |             |             |             |             |
|        | * WITH AIR COMPRESSOR TYPE 376          |                                    |             |             |             |             |             |             |             |             |             |             |             |

## 2.3000A FUEL FILTER

| PART |         | COLUMN                                                                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------|---------|--------------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FIG  | NUMBER  | NAME AND DESCRIPTION                                                                 | A | B | C | D | E | F | G | H | I | J | K | L | M | N |
|      |         | <b>2.3001 - STRAINER ASSY., FUEL</b>                                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|      | 5111605 | STRAINER ASSY. (PUROLATOR TYPE C-17J-30)                                             |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |
|      | 5136560 | STRAINER ASSY. (FILTER-SEPARATOR)                                                    |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |
| 3C   | 5182041 | STRAINER ASSY. (6")                                                                  | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3C   | 5575568 | STRAINER ASSY. (6" SOCK TYPE) (T-60)                                                 |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |
| 3C   | 5575824 | STRAINER ASSY. (8") (T-67)                                                           |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |
|      | 5577342 | STRAINER ASSY. (TL-70)                                                               |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |
| 3C   | 6436075 | STRAINER ASSY. (T-74) (2.3310)                                                       |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |
|      | 5129449 | FILTER ASSY. (FRAM TYPE FCS 1133 PLM)                                                |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |
|      |         | <del>NOT SERVICED, COMPONENTS ARE AVAILABLE</del>                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|      |         | <b>2.3010 - ELEMENT, FUEL STRAINER (PRIMARY)</b>                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3C   | 5574961 | ELEMENT (6", FELT SOCK TYPE, T-553) (INCLUDES GASKETS IN 2.3090 AND 2.3130)          | 1 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |
| 3C   | 5575032 | ELEMENT (8", FELT SOCK TYPE, T-552) (INCLUDES GASKETS IN 2.3090 AND 2.3130)          |   |   | 1 |   | 1 |   |   |   |   |   |   |   |   |   |
|      | 5198731 | ELEMENT (METAL) (BOWSER)                                                             |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |
|      | 1595655 | ELEMENT (METAL DISC TYPE TL-12) (INCLUDES GASKET IN 2.3090)                          |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |
|      | 5196878 | ELEMENT (COALESCER)                                                                  |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |
|      | 5196879 | ELEMENT, SEPARATOR                                                                   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |
|      | 5194834 | ELEMENT & KNIFE ASSY. (4" METAL)                                                     |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |
|      |         | <b>2.3050 - SHELL, FUEL STRAINER (PRIMARY)</b>                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3A   | 5192916 | SHELL (6")                                                                           | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3C   | 5577586 | SHELL (2.3380)                                                                       |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |
| 3C   | 5575893 | SHELL ASSY. (COMPONENTS N.S.S.) (2.3380)                                             |   |   | 1 |   | 1 |   |   |   |   |   |   |   |   |   |
|      | 6435007 | SHELL ASSY. (COMPONENTS N.S.S.)                                                      |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |
| 3A,C | 103647  | DRAINCOCK, 1/4" (12.9510)                                                            | 1 | 1 | 1 |   | 1 | 1 |   |   |   |   |   |   |   |   |
|      |         | <b>2.3060 - SPRING, FUEL STRAINER</b>                                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|      | 6435048 | SPRING                                                                               |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |
|      |         | <b>2.3080 - COVER, FUEL STRAINER (PRIMARY)</b>                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3C   | 6436253 | COVER ASSY. (IDENTIFIED WITH CAST "P") (INCLUDES ITEMS IN 2.3090, 2.3120 AND 2.3130) |   | 1 |   |   | 1 |   |   |   |   |   |   |   |   |   |

## 2.3000A FUEL FILTER

| PART                                    |                                | TYPES                |             |             |             |             |             |             |             |             |             |             |             |             |
|-----------------------------------------|--------------------------------|----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| FIG                                     | NUMBER                         | NAME AND DESCRIPTION | 5<br>2<br>7 | 5<br>2<br>9 | 5<br>3<br>0 | 5<br>6<br>9 | 5<br>7<br>5 | 5<br>9<br>3 | 5<br>9<br>6 | 6<br>0<br>5 | 6<br>0<br>6 | 6<br>2<br>1 | 6<br>4<br>0 | 6<br>4<br>4 |
| 2.3310 - FILTER ASSY., FUEL<br>(CONT'D) |                                |                      |             |             |             |             |             |             |             |             |             |             |             |             |
| 5121182                                 | PLUG, 1/4" PIPE (2.4015)       |                      | 2           | 2           | 2           |             | 2           | 2           | 2           |             |             | 2           | 2           | 2           |
| 180121                                  | BOLT, 3/8"-16X7/8" (12.9001)   |                      |             | 2           |             |             |             |             |             |             |             |             |             |             |
| 186622                                  | BOLT, 3/8"-16X1 1/4" (12.9001) |                      |             |             |             |             |             |             |             |             |             | 2           |             |             |
| 181370                                  | BOLT, 3/8"-24X1 1/4" (12.9001) |                      | 2           |             |             |             |             |             |             | 2           | 2           |             |             |             |
| 181374                                  | BOLT, 3/8"-24X1 1/2" (12.9001) |                      |             |             |             |             | 2           | 2           | 2           |             |             |             |             |             |
| 103321                                  | LOCKWASHER, 3/8" (12.9200)     |                      | 2           | 2           | 2           |             | 2           | 2           | 2           | 2           | 2           | 2           |             |             |
| 123221                                  | NUT, 3/8"-16 HEX. (12.9120)    |                      |             | 2           | 2           |             |             |             |             |             |             | 2           |             |             |
| 117049                                  | NUT, 3/8"-24 HEX. (12.9120)    |                      | 2           |             |             |             | 2           | 2           | 2           | 2           | 2           |             |             |             |
| 2.3530 - BRACKET, FUEL FILTER MOUNTING  |                                |                      |             |             |             |             |             |             |             |             |             |             |             |             |
| 5100953                                 | BRACKET                        |                      | 1           |             |             |             |             |             |             |             |             |             |             |             |
| 5142635                                 | BRACKET                        |                      | 1           |             |             |             |             |             |             |             |             |             |             |             |
| 5109645                                 | BRACKET                        |                      |             | 1           |             |             |             |             |             |             |             |             |             |             |
| 5133288                                 | BRACKET                        |                      |             |             | 1           |             |             |             |             |             |             |             |             |             |
| 5139558                                 | BRACKET                        |                      |             |             |             |             |             |             |             | 1           |             |             |             |             |
| 5131411                                 | BRACKET                        |                      |             |             |             |             |             |             |             |             |             | 1           |             |             |
| 5129929                                 | BRACKET                        |                      |             |             |             |             |             |             |             |             |             |             | 1           |             |
| 5121182                                 | PLUG, 1/4" PIPE (2.4015)       |                      |             |             | 2           |             |             |             |             |             |             |             |             |             |
| 186274                                  | BOLT, 5/16"-18X5" (12.9001)    |                      |             |             | 4           |             |             |             |             |             |             |             |             |             |
| 179837                                  | BOLT, 3/8"-16X3/4" (12.9001)   |                      |             |             |             |             |             |             |             |             |             | 1           |             |             |
| 180121                                  | BOLT, 3/8"-16X7/8" (12.9001)   |                      |             | 2           |             |             |             |             |             |             |             |             |             |             |
| 186619                                  | BOLT, 3/8"-16X1 1/8" (12.9001) |                      |             |             |             |             |             |             |             |             |             |             | 2           |             |
| 186679                                  | BOLT, 3/8"-16X1 1/4" (12.9001) |                      |             |             | 2           |             |             |             |             |             |             | 2           |             |             |
| 186627                                  | BOLT, 3/8"-24X1" (12.9001)     |                      |             |             |             |             |             |             |             | 2           |             |             |             |             |
| 189330                                  | BOLT, 3/8"-24X3 3/4" (12.9001) |                      | 2           |             |             |             |             |             |             |             |             |             |             |             |
| 186312                                  | BOLT, 3/8"-24X4" (12.9001)     |                      |             |             |             |             |             |             |             | 2           |             |             |             |             |
| 179844                                  | BOLT, 1/2"-13X1 3/8" (12.9001) |                      |             |             |             |             |             |             |             |             |             |             | 2           |             |
| 103340                                  | WASHER, 5/16" (12.9190)        |                      |             |             | 4           |             |             |             |             |             |             |             |             |             |
| 103341                                  | WASHER, 3/8" (12.9010)         |                      |             |             |             |             |             |             |             |             |             | 2           |             |             |
| 106265                                  | WASHER, 9/16" (12.9190)        |                      |             |             |             |             |             |             |             |             |             |             | 2           |             |
| 103321                                  | LOCKWASHER, 3/8" (12.9200)     |                      |             | AR          | AR          |             |             |             |             | AR          |             | AR          |             |             |
| 123221                                  | NUT, 3/8"-16 (12.9120)         |                      |             |             | 2           |             |             |             |             |             |             |             |             |             |
| 117049                                  | NUT, 3/8"-24 CAD. (12.9120)    |                      |             |             |             |             |             |             |             | 2           |             |             |             |             |

## 2.3000A FUEL FILTER

|                                                  |                               | COLUMN                                                                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------------------|-------------------------------|----------------------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PART                                             | NUMBER                        | NAME AND DESCRIPTION                                                                         | A | B | C | E | F | G | H | I | J | K | L | M | N |
| <b>2.3310 - FILTER ASSY., FUEL</b>               |                               |                                                                                              |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3B                                               | 5121370                       | FILTER ASSY. (5")                                                                            |   |   | 1 |   |   |   |   |   |   |   |   |   |   |
| 3B                                               | 5573949                       | FILTER ASSY. (4") (T-58)                                                                     | 1 |   |   |   |   |   |   |   |   |   |   |   |   |
| 3B                                               | 5574533                       | FILTER ASSY. (8") (T-65)                                                                     |   | 1 |   |   |   |   |   |   |   |   |   |   |   |
| 3B                                               | 5575009                       | FILTER ASSY. (8") (T-67)                                                                     |   |   | 1 |   |   |   |   |   |   |   |   |   |   |
| 3B                                               | 5578475                       | FILTER ASSY. (4") (T-71MS)                                                                   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |
| <b>2.3320 - ELEMENT, FUEL FILTER (SECONDARY)</b> |                               |                                                                                              |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3B                                               | 5573261                       | ELEMENT (4", TP-509) (INCLUDES GASKETS IN 2.3400, 2.3420)                                    | 1 |   |   |   |   |   |   |   |   |   |   |   |   |
| 3B                                               | 5574508                       | ELEMENT (8", TP-540X) (VERTICAL PLEAT) (INCLUDES GASKETS IN 2.3400, 2.3420)                  |   | 1 |   |   |   |   |   |   |   |   |   |   |   |
| 3B                                               | 5196048                       | ELEMENT (5") (INCLUDES GASKET IN 2.3400)                                                     |   |   | 1 |   |   |   |   |   |   |   |   |   |   |
|                                                  | 5575032                       | ELEMENT (8", T-552 FELT SOCK TYPE) (INCLUDES GASKET IN 2.3400)                               |   |   |   | 1 |   |   |   |   |   |   |   |   |   |
| 3B                                               | <del>5578168</del><br>5193829 | ELEMENT (LESS GASKET IN 2.3400)                                                              |   |   |   |   | 1 |   |   |   |   |   |   |   |   |
| <b>2.3322 - SEAT, FUEL FILTER ELEMENT</b>        |                               |                                                                                              |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3B                                               | 5574123                       | SEAT                                                                                         | 1 | 1 |   | 1 |   |   |   |   |   |   |   |   |   |
| 3B                                               | 5574126                       | SEAL                                                                                         | 1 | 1 |   | 1 |   |   |   |   |   |   |   |   |   |
| 3B                                               | 5574120                       | RETAINER (RING)                                                                              | 1 | 1 |   | 1 |   |   |   |   |   |   |   |   |   |
| 3B                                               | 5196066                       | RETAINER                                                                                     |   |   | 1 |   |   |   |   |   |   |   |   |   |   |
| <b>2.3370 - SPRING, FUEL FILTER ELEMENT</b>      |                               |                                                                                              |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3B                                               | 5574124                       | SPRING                                                                                       | 1 | 1 |   | 1 |   |   |   |   |   |   |   |   |   |
| 3B                                               | 5196063                       | SPRING (GUIDE)                                                                               |   |   | 1 |   |   |   |   |   |   |   |   |   |   |
| 3B                                               | 5574122                       | SEAT, SPRING (WASHER)                                                                        | 1 | 1 |   | 1 |   |   |   |   |   |   |   |   |   |
| <b>2.3380 - SHELL, FUEL FILTER (SECONDARY)</b>   |                               |                                                                                              |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3B                                               | 5574125                       | SHELL ASSY. (INCLUDES ITEMS IN 2.3322 AND 2.3370)                                            | 1 |   |   | 1 |   |   |   |   |   |   |   |   |   |
| 3B                                               | 5575169                       | SHELL ASSY. (INCLUDES ITEMS IN 2.3322 AND 2.3370)                                            |   | 1 |   |   |   |   |   |   |   |   |   |   |   |
| 3B                                               | 5196062                       | SHELL ASSY. (INCLUDES SPRING IN 2.3370)                                                      |   |   | 1 |   |   |   |   |   |   |   |   |   |   |
| 3B                                               | 5575056                       | SHELL ASSY. (COMPONENTS N.S.S.)                                                              |   |   |   | 1 |   |   |   |   |   |   |   |   |   |
| <b>2.3390 - COVER, FUEL FILTER (SECONDARY)</b>   |                               |                                                                                              |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3B                                               | 6436254                       | COVER ASSY. (IDENTIFIED WITH CAST "S") (INCLUDES ITEMS IN 2.3400, 2.3410, 2.3420 AND 2.3480) | 1 | 1 |   | 1 |   |   |   |   |   |   |   |   |   |

## 2.3000A FUEL FILTER

| PART<br>..FIG .. NUMBER .. NAME AND DESCRIPTION ..          |                |                                                  | COLUMN |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------------------------------------------|----------------|--------------------------------------------------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                                                             |                |                                                  | A      | B | C | D | E | F | G | H | I | J | K | L | M | N |
| <b>2.3080 - COVER, FUEL STRAINER (PRIMARY)<br/>(CONT'D)</b> |                |                                                  |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | <b>6436746</b> | COVER (IDENTIFIED WITH CAST "P") .....           |        |   | 1 |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | <b>6435045</b> | + COVER .....                                    |        |   |   |   |   | 1 |   |   |   |   |   |   |   |   |
|                                                             |                | + OBSOLETE .....                                 |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>2.3090 - GASKET, FUEL STRAINER COVER</b>                 |                |                                                  |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3A                                                          | <b>5193801</b> | GASKET (2.3400) .....                            | 1      |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3C                                                          | <b>5574181</b> | GASKET (2.3400) .....                            |        | 1 | 1 |   | 1 |   |   |   |   |   |   |   |   |   |
|                                                             | <b>5198733</b> | GASKET .....                                     |        |   |   | 1 |   |   |   |   |   |   |   |   |   |   |
|                                                             | <b>5193704</b> | GASKET .....                                     |        |   |   |   |   |   |   | 2 |   |   |   |   |   |   |
|                                                             | <b>1503541</b> | GASKET .....                                     |        |   |   |   |   | 1 |   |   |   |   |   |   |   |   |
| <b>2.3100 - PLUG, FUEL STRAINER COVER</b>                   |                |                                                  |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | <b>6435047</b> | PLUG .....                                       |        |   |   |   |   | 1 |   |   |   |   |   |   |   |   |
| 3C                                                          | <b>5121182</b> | PLUG, 1/4" PIPE (2.4015) .....                   | 1      | 2 |   |   | 2 |   |   |   |   |   |   |   |   |   |
| 3C                                                          | <b>444577</b>  | PLUG, 1/4" PIPE (12.9550) .....                  |        |   |   |   | 2 |   |   |   |   |   |   |   |   |   |
| 3C                                                          | <b>5145011</b> | PLUG, 3/8" PIPE (12.9550) .....                  | 1      | 2 |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>2.3120 - SCREW, FUEL STRAINER COVER</b>                  |                |                                                  |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3A                                                          | <b>5192913</b> | NUT (2.3410) .....                               | 1      |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3C                                                          | <b>5575790</b> | BOLT (USE WITH EARLY COVERS)<br>(2.3410) .....   |        | 1 |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | <b>6435793</b> | BOLT (USE WITH COVER MARKED "P") .....           |        | 1 | 1 |   | 1 |   |   |   |   |   |   |   |   |   |
|                                                             | <b>6435048</b> | BOLT .....                                       |        |   |   |   |   | 1 |   |   |   |   |   |   |   |   |
| <b>2.3130 - GASKET, FUEL STRAINER COVER SCREW</b>           |                |                                                  |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3A                                                          | <b>2243465</b> | GASKET (2.3420) .....                            | 1      |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3C                                                          | <b>1503536</b> | GASKET (USE WITH EARLY COVERS)<br>(2.3110) ..... |        | 1 |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | <b>6435794</b> | GASKET (USE WITH COVER MARKED "P") .....         |        | 1 | 1 |   | 1 |   |   |   |   |   |   |   |   |   |
|                                                             | <b>5198732</b> | GASKET .....                                     |        |   |   | 1 |   |   |   |   |   |   |   |   |   |   |
|                                                             | <b>853562</b>  | GASKET .....                                     | 1      |   |   |   |   |   |   |   |   |   |   |   |   |   |

## 2.4000 FUEL MANIFOLD CONNECTIONS

| PART |         | TYPES                                     |   |   |  |  |  |  |  |  |  |  |
|------|---------|-------------------------------------------|---|---|--|--|--|--|--|--|--|--|
| FIG  | NUMBER  | NAME AND DESCRIPTION                      | 4 | 8 |  |  |  |  |  |  |  |  |
|      | 2.4020  | PIPE, FUEL                                |   |   |  |  |  |  |  |  |  |  |
|      | 5116204 | PIPE ASSY. (INLET AND OUTLET)             | 8 |   |  |  |  |  |  |  |  |  |
|      |         | <del>QUANTITY IS TWO TIMES CYLINDER</del> |   |   |  |  |  |  |  |  |  |  |
|      |         | <del>COUNT.</del>                         |   |   |  |  |  |  |  |  |  |  |
|      | 2.4030  | CONNECTOR, FUEL PIPE                      |   |   |  |  |  |  |  |  |  |  |
|      | 5152138 | CONNECTOR                                 | 8 |   |  |  |  |  |  |  |  |  |
|      |         | <del>QUANTITY IS TWO TIMES CYLINDER</del> |   |   |  |  |  |  |  |  |  |  |
|      |         | <del>COUNT.</del>                         |   |   |  |  |  |  |  |  |  |  |
|      | 2.4050  | WASHER, FUEL PIPE CONNECTOR               |   |   |  |  |  |  |  |  |  |  |
|      | 5152148 | WASHER                                    | 8 |   |  |  |  |  |  |  |  |  |
|      |         | <del>QUANTITY IS TWO TIMES CYLINDER</del> |   |   |  |  |  |  |  |  |  |  |
|      |         | <del>COUNT.</del>                         |   |   |  |  |  |  |  |  |  |  |

## 2.3000A FUEL FILTER

| PART |         |                                                              | COLUMN |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------|---------|--------------------------------------------------------------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FIG  | NUMBER  | NAME AND DESCRIPTION                                         | A      | B | C | D | E | F | G | H | I | J | K | L | M | N |
|      |         | <b>2.3390 - COVER, FUEL FILTER (SECONDARY)<br/>(CONT'D)</b>  |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3B   | 5575789 | COVER ASSY. (INCLUDES ITEMS IN<br>2.3400, 2.3410 AND 2.3420) |        |   |   | 1 |   |   |   |   |   |   |   |   |   |   |
|      |         | <b>2.3400 - GASKET, FUEL FILTER COVER TO SHELL</b>           |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3B   | 5574161 | GASKET                                                       | 1      | 1 |   | 1 | 1 |   |   |   |   |   |   |   |   |   |
| 3B   | 5192801 | GASKET                                                       |        |   | 1 |   |   |   |   |   |   |   |   |   |   |   |
|      |         | <b>2.3410 - SCREW, FUEL FILTER COVER</b>                     |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3B   | 5574118 | SCREW                                                        | 1      | 1 |   |   | 1 |   |   |   |   |   |   |   |   |   |
| 3B   | 131375  | SCREW (VENT, IN NUT)                                         |        |   | 1 |   |   |   |   |   |   |   |   |   |   |   |
| 3B   | 5575790 | BOLT                                                         |        |   |   | 1 |   |   |   |   |   |   |   |   |   |   |
|      | 5196065 | NUT                                                          |        |   | 1 |   |   |   |   |   |   |   |   |   |   |   |
|      | 5196066 | RETAINER, NUT                                                |        |   | 1 |   |   |   |   |   |   |   |   |   |   |   |
|      |         | <b>2.3420 - GASKET, FUEL FILTER COVER SCREW</b>              |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3B   | 1503536 | GASKET (2.3110)                                              | 1      | 1 |   | 1 | 1 |   |   |   |   |   |   |   |   |   |
| 3B   | 5193710 | GASKET (VENT SCREW)                                          |        |   | 1 |   |   |   |   |   |   |   |   |   |   |   |
|      | 2243465 | GASKET (COVER NUT)                                           |        |   | 1 |   |   |   |   |   |   |   |   |   |   |   |
|      |         | <b>2.3480 - PLUG, FUEL FILTER</b>                            |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
|      | 5121182 | PLUG, 1/4" PIPE (2.4015)                                     | 2      | 2 |   | 2 | 2 |   |   |   |   |   |   |   |   |   |
|      |         | <b>2.3500 - DRAINCOCK, FUEL FILTER</b>                       |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3B   | 103647  | DRAINCOCK, 1/4" (12.9510)                                    | 1      | 1 | 1 | 1 | 1 |   |   |   |   |   |   |   |   |   |

## 2.5000A FUEL LINES

| PART |         | TYPES                                                                  |        |        |        |             |             |             |             |             |             |             |             |
|------|---------|------------------------------------------------------------------------|--------|--------|--------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| FIG. | NUMBER  | NAME AND DESCRIPTION                                                   | 9<br>4 | 9<br>6 | 9<br>7 | 1<br>0<br>3 | 1<br>0<br>4 | 1<br>0<br>7 | 1<br>0<br>1 | 1<br>0<br>2 | 1<br>0<br>3 | 1<br>0<br>4 | 1<br>0<br>5 |
|      | 2.5215  | TUBE, FUEL DRAIN FLEXIBLE (CONT'D)                                     |        |        |        |             |             |             |             |             |             |             |             |
| 4A   | 5138287 | * HOSE ASSY. (#5X17 1/2" L.) (CROSSOVER)                               |        |        |        |             |             | 1           |             |             |             | 1           | 1           |
| 4A   | 5137868 | HOSE ASSY. (#5X24" L.)                                                 |        |        |        |             |             |             |             |             |             | 1           |             |
|      | 9432264 | CONNECTOR, 5/16" INV. FL TUBE (12.9460)                                |        |        |        |             |             | 1           |             |             |             |             | 1           |
|      | 118752  | CONNECTOR, 3/8" INV. FL TUBE (12.9445)                                 |        |        |        |             | 1           |             |             |             |             |             |             |
|      | 111644  | COUPLING, 3/8"X1/4" (12.9580)                                          |        |        |        |             | 1           |             |             |             |             |             |             |
|      | 5129843 | TEE, 5/16" INV. FL TUBE (RESTRICTED)                                   |        |        |        |             |             | 1           |             |             |             |             | 1           |
|      | 143337  | ELBOW, 5/16" INV. FL TUBE 45 DEG. (12.9480)                            |        |        |        |             |             |             |             |             |             | 2           |             |
|      | 193004  | ELBOW, 3/8" INV. FL TUBE 90 DEG. (12.9480)                             |        |        |        |             |             | 1           |             |             |             |             | 1           |
|      |         | * OBSOLETE: CUSTOMER TO FABRICATE FROM BULK MATERIAL SHOWN IN 12.8550. |        |        |        |             |             |             |             |             |             |             |             |
|      | 2.5220  | CLIP, FUEL DRAIN TUBE                                                  |        |        |        |             |             |             |             |             |             |             |             |
| 4A   | 5168001 | CLIP (1/2" TUBE) (12.4095)                                             |        |        |        |             |             | 1           |             |             |             |             | 1           |
| 4A   | 5170860 | CLIP (1/2" TUBE) (4.6040)                                              |        |        |        |             |             |             |             |             |             | 1           |             |
| 4A   | 5171509 | CLIP (5/8" TUBE) (9.1591)                                              |        |        |        |             | 1           |             |             |             |             | 1           |             |
|      | 5124849 | SPACER (7.4538)                                                        |        |        |        |             |             |             |             |             |             | 1           |             |
|      | 186282  | BOLT, 3/8"-16X3 1/4" (12.9001)                                         |        |        |        |             |             |             |             |             |             | 1           |             |
|      | 2.5260  | VALVE, FUEL SYSTEM SHUT-OFF                                            |        |        |        |             |             |             |             |             |             |             |             |
|      | 5138989 | * VALVE ASSY. (6 PORT - 3 WAY) (2.6090)                                | 1      | 1      |        |             |             |             |             |             |             |             |             |
|      | 180120  | BOLT, 7/8"-16X3/4" (12.9001)                                           | 2      |        |        |             |             |             |             |             |             |             |             |
|      | 103321  | LOCKWASHER, 3/8" (12.9200)                                             | 2      |        |        |             |             |             |             |             |             |             |             |
|      |         | * OBSOLETE                                                             |        |        |        |             |             |             |             |             |             |             |             |
|      | 2.5270  | SUPPORT, FUEL SYSTEM SHUT-OFF VALVE                                    |        |        |        |             |             |             |             |             |             |             |             |
|      | 5139496 | BRACKET                                                                | 1      | 1      |        |             |             |             |             |             |             |             |             |
|      | 180120  | BOLT, 3/8"-16X3/4" (12.9001)                                           | 2      | 2      |        |             |             |             |             |             |             |             |             |

## 2.5000A FUEL LINES

| FIG     | PART<br>NUMBER     | NAME AND DESCRIPTION                                   | TYPES            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|---------|--------------------|--------------------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|         |                    |                                                        | 1<br>0<br>2<br>2 | 1<br>0<br>2<br>3 | 1<br>0<br>2<br>4 | 1<br>0<br>3<br>3 | 1<br>0<br>4<br>0 | 1<br>0<br>4<br>5 | 1<br>0<br>7<br>0 | 1<br>0<br>7<br>4 | 1<br>0<br>8<br>6 | 1<br>0<br>9<br>7 | 1<br>1<br>0<br>1 | 1<br>1<br>0<br>3 |
|         |                    | <b>2.5010 - TUBE, FUEL SUPPLY TO STRAINER FLEXIBLE</b> |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 4A      | 5171337            | HOSE (#.38X300") (FLEX.)                               |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |
| 4A      | 5143364            | HOSE (#8X11") (FLEX.) (2.5001)                         |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |
|         | 225828             | ELBOW, 1/2" INV. FL TUBE 90 DEG. (12.9480)             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |
|         | 188947             | ELBOW, 1/2" INV. FL TUBE 90 DEG. (4.3020)              |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |
|         |                    | <del>OBsolete, CUSTOMER TO FABRICATE</del>             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|         |                    | <del>FROM BULK MATERIAL SHOWN IN 12.9550</del>         |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|         |                    | <b>2.5050 - TUBE, STRAINER TO FUEL PUMP</b>            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 4A      | 5133829            | HOSE (#6X50" L)                                        | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 4A      | 5137959            | HOSE (#8X10" L)                                        |                  | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 4A      | 5136633            | HOSE (#8X18 1/2" L) (FLEX.)                            |                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  |                  |                  |
| 4A      | 5136232            | HOSE (#6X14" L) (2.5149)                               |                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  |                  |
| 4A      | 5143372            | HOSE (#8X43 3/4" L)                                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |
| 4A      | 5142945            | TUBE (DEV. L 9.70")                                    |                  |                  |                  | 1                | 1                |                  |                  |                  |                  |                  |                  |                  |
| 4A      | 5121151            | TUBE (DEV. L 45.16")                                   |                  |                  | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|         | 2310225            | CONNECTOR, 1/4" PIPE (2.8910)                          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |
|         | 442323             | CONNECTOR, 3/8" INV. FL TUBE (12.9480)                 | 1                |                  | 1                | 1                |                  |                  |                  |                  |                  |                  |                  |                  |
|         | 118750             | CONNECTOR, 3/8" INV. FL TUBE (12.9480)                 |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  |
|         | 431538             | CONNECTOR, 1/2" INV. FL TUBE (12.9460)                 |                  | 1                |                  |                  |                  |                  | 2                |                  |                  | 1                |                  |                  |
|         | 444054             | ELBOW, 1/4" PIPE 45 DEG. (12.9490)                     |                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  |                  |
|         | 143338             | ELBOW, 3/8" INV. FL TUBE 45 DEG. (12.9480)             |                  |                  | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|         | 193004             | ELBOW, 3/8" INV. FL TUBE 90 DEG. (12.9480)             |                  |                  |                  | 1                |                  |                  |                  |                  |                  |                  |                  |                  |
|         | 118755             | ELBOW, 3/8" FL TUBE 90 DEG. (12.9390)                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  |                  |                  |                  |
|         | 225828             | ELBOW, 1/2" INV. FL TUBE 90 DEG. (12.9480)             |                  | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 5121182 | <del>5145010</del> | <del>PLUG, 1/4" PIPE (12.9550)</del>                   |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  |
|         |                    | <del>OBsolete, CUSTOMER TO FABRICATE</del>             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|         |                    | <del>FROM BULK MATERIAL SHOWN IN 12.9550</del>         |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|         | 5198558            | BUSHING, RED 3/8" x 1/4" (2.2030)                      |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  |
|         |                    | <b>2.5070 - CLIP, STRAINER TO FUEL PUMP TUBE</b>       |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 4A      | 5177623            | CLIP, 3/8" TUBE (2.5120)                               |                  |                  | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 4A      | 5160388            | CLIP, 3/8" TUBE                                        |                  |                  | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 4A      | 5151189            | CLIP, 3/4" TUBE (4.8040)                               |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 2                |                  |
|         | 5127861            | BRACKET (7.1587)                                       |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |
|         | 180120             | BOLT, 3/8"-16X3/4" (12.9001)                           |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |
|         | 272473             | BOLT, 3/8"-16X3 7/8" (12.9001)                         |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |

## 2.5000A FUEL LINES

| FIG    | PART<br>NUMBER    | NAME AND DESCRIPTION                                                            | TYPES            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|--------|-------------------|---------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|        |                   |                                                                                 | 1<br>0<br>2<br>2 | 1<br>0<br>2<br>3 | 1<br>0<br>2<br>4 | 1<br>0<br>3<br>3 | 1<br>0<br>4<br>0 | 1<br>0<br>4<br>5 | 1<br>0<br>7<br>0 | 1<br>0<br>7<br>4 | 1<br>0<br>8<br>6 | 1<br>0<br>9<br>7 | 1<br>1<br>0<br>1 | 1<br>1<br>0<br>3 |
|        |                   | <b>2.5070 - CLIP, STRAINER TO FUEL PUMP TUBE (CONT'D)</b>                       |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|        | 192883            | BOLT, 3/8"-16X5" (12.9001)                                                      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |
|        | 103321            | LOCKWASHER, 3/8" FLAT (12.9200)                                                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 2                |                  |
|        | 123221            | NUT, 3/8"-16 HEX. (12.9120)                                                     |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |
|        |                   | <b>2.5100 - TUBE, FUEL PUMP TO FILTER</b>                                       |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 4A     | 5127817           | TUBE (DEV. L. 9.24")                                                            |                  | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 4A     | 5137939           | TUBE (DEV. L. 15.50")                                                           |                  |                  | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 4A     | 5142944           | TUBE (DEV. L. 19.26")                                                           |                  |                  |                  | 1                |                  |                  |                  |                  |                  |                  |                  |                  |
| 4A     | 5121081           | TUBE (DEV. L. 21.28")                                                           |                  |                  |                  |                  |                  | 1                |                  |                  |                  |                  |                  |                  |
| 4A     | 5109488           | TUBE (DEV. L. 41.30")                                                           | 1                |                  |                  | 1                |                  |                  |                  |                  |                  |                  |                  |                  |
|        | 5130688           | HOSE ASSY., FLEX. (#6X17 1/4") (2.5215)                                         |                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  |                  |
|        | 5137321           | HOSE ASSY., FLEX. (#6X39 1/8")                                                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  |
|        | 5136632           | HOSE, 5/16"X25 3/4" L                                                           |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  |
|        | 442323            | CONNECTOR, 3/8" INV. FL. TUBE (12.9460)                                         | 1                |                  |                  | 1                | 1                |                  | 1                |                  |                  |                  |                  |                  |
|        | 118750            | CONNECTOR, 3/8" INV. FL. TUBE (12.9460)                                         |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  |
|        | 193004            | ELBOW, 3/8" INV. FL. TUBE 90 DEG. (12.9480)                                     | 2                | 2                | 2                | 1                | 1                |                  | 1                | 2                |                  | 2                | 2                |                  |
|        | 118755            | ELBOW, 3/8" TUBE 90 DEG. (12.9390)                                              |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  |
|        | 5121182           | PLUG, 1/4" PIPE (2.4015)                                                        |                  |                  |                  |                  |                  |                  |                  |                  | 2                |                  |                  |                  |
|        |                   | <del>OBsolete, CUSTOMER TO FABRICATE FROM BULK MATERIAL SHOWN IN 12.5550.</del> |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|        |                   | <b>2.5120 - CLIP, FUEL PUMP TO FILTER TUBE</b>                                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 4A     | 5169119           | CLIP, 3/8" TUBE                                                                 |                  |                  |                  |                  |                  |                  |                  |                  |                  | 2                |                  |                  |
| 4A     | 5177623           | CLIP, 3/8" TUBE (2.5120)                                                        | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 4A     | 5160388           | CLIP, 3/8" TUBE (2.5070)                                                        | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 4A     | 5138090           | CLIP, 3/8" TUBE (2.5220)                                                        |                  |                  |                  |                  | 2                |                  |                  |                  |                  |                  |                  |                  |
| 4A     | 5133108           | CLIP, 3/8" TUBE (2.5120)                                                        |                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  |                  |                  |
| 4A     | 5153473           | CLIP, 1/2" TUBE (4.6040)                                                        |                  |                  |                  |                  |                  |                  |                  |                  | 3                |                  |                  |                  |
|        | 5112241           | CLAMP (2.5070)                                                                  |                  |                  |                  | 6                |                  |                  |                  |                  |                  |                  |                  |                  |
|        | 5196119           | SPACER, 13/32"X7/8" (3.4001)                                                    |                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  |                  |                  |
|        | 5173022           | SUPPORT, DIP (5.5379)                                                           |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  |
|        | 110502            | BOLT, #10-24X3/4" (12.9025)                                                     |                  |                  |                  | 3                |                  |                  |                  |                  |                  |                  |                  |                  |
|        | 438574            | BOLT, #10-24X1" (12.9001)                                                       |                  |                  |                  |                  | 1                |                  |                  |                  |                  |                  |                  |                  |
| 179938 | <del>186121</del> | BOLT, 3/8"-16X7/8" (12.9001)                                                    |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  |
|        | 186612            | BOLT, 3/8"-16X1 3/8" (12.9001)                                                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  | 1                |                  |                  |
|        | 181370            | BOLT, 3/8"-24X1 1/4" (12.9001)                                                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  |
|        | 120391            | WASHER, 7/32"X1/2" PLAIN (12.9190)                                              |                  |                  |                  |                  | 1                |                  |                  |                  |                  |                  |                  |                  |
|        | 103341            | WASHER, 3/8" (12.9190)                                                          |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                | 1                |                  |
|        | 120217            | LOCKWASHER, #10 MED. (12.9200)                                                  |                  |                  |                  | 3                | 1                |                  |                  |                  |                  |                  |                  |                  |
|        | 103321            | LOCKWASHER, 3/8" (12.9200)                                                      |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                | 1                |                  |

## 2.5000A FUEL LINES

| FIG | PART<br>NUMBER | NAME AND DESCRIPTION                                                            | TYPES            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|-----|----------------|---------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|     |                |                                                                                 | 1<br>0<br>2<br>2 | 1<br>0<br>2<br>3 | 1<br>0<br>2<br>4 | 1<br>0<br>3<br>3 | 1<br>0<br>4<br>0 | 1<br>0<br>4<br>5 | 1<br>0<br>7<br>0 | 1<br>0<br>7<br>4 | 1<br>0<br>8<br>6 | 1<br>0<br>9<br>7 | 1<br>1<br>0<br>1 | 1<br>1<br>0<br>3 |
|     |                | <b>2.5120 - CLIP, FUEL PUMP TO FILTER TUBE (CONT'D)</b>                         |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|     | 110633         | NUT, #10-24 HEX. (12.9120) .....                                                |                  |                  |                  | 3                | 1                |                  |                  |                  |                  |                  |                  |                  |
|     | 117049         | NUT, 3/8"-24 HEX. (12.9120) .....                                               |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  |
|     |                | <b>2.5151 - TUBE, FILTER OUTLET</b>                                             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 4A  | 5134070        | TUBE (DEV. L. 10.15") .....                                                     |                  |                  |                  | 1                |                  |                  |                  |                  |                  |                  |                  |                  |
| 4A  | 5129176        | TUBE (DEV. L. 12.18") .....                                                     |                  | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|     | 5128282        | TUBE (DEV. L. 12.25") (CROSSOVER) .....                                         |                  |                  | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 4A  | 5129623        | TUBE (DEV. L. 12.68") .....                                                     | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|     | 5132698        | TUBE (DEV. L. 5/16"X10.12") (CROSSOVER) .....                                   |                  | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 4A  | 5125318        | TUBE (DEV. L. 19.50") .....                                                     |                  |                  |                  |                  |                  | 1                |                  |                  |                  |                  |                  |                  |
|     | 5125447        | ELBOW, 3/8" TUBE SEALASTIC 45 DEG. (12.9425) .....                              |                  | 1                | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|     | 143338         | ELBOW, 3/8" INV. FL. TUBE 45 DEG. (12.9480) .....                               |                  |                  |                  |                  |                  | 2                |                  |                  |                  |                  |                  |                  |
|     | 193004         | ELBOW, 3/8" INV. FL. TUBE 90 DEG. (12.9480) .....                               | 1                |                  |                  | 2                |                  |                  |                  |                  |                  | 2                |                  |                  |
|     | 442323         | CONNECTOR, 3/8" INV. FL. TUBE (12.9415) .....                                   | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|     | 5179938        | SEAL RING, 3/8" TUBE SEALASTIC (12.9435) .....                                  |                  |                  | 2                |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|     | 5179937        | NUT, 3/8" TUBE SEALASTIC (12.9445) .....                                        |                  |                  | 2                |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|     |                | <del>OBSCLETE, CUSTOMER TO FABRICATE FROM BULK MATERIAL SHOWN IN 12.9550.</del> |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|     |                | <b>2.5160 - TUBE, FILTER TO CYLINDER HEAD FLEXIBLE</b>                          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 4B  | 5141266        | TUBE (DEV. L. 23.52") (2.5100) .....                                            |                  |                  |                  |                  | 1                |                  |                  |                  |                  |                  |                  |                  |
| 4B  | 5131558        | HOSE (9.75" L.) .....                                                           |                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  |                  |                  |
| 4B  | 5133802        | HOSE (#6X10.50" L.) .....                                                       |                  |                  | 1                |                  |                  | 1                |                  |                  |                  |                  |                  |                  |
| 4A  | 5136331        | HOSE (#6X13" L.) (2.5050) .....                                                 |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  |
| 4B  | 5118782        | HOSE (1/4"X14" L.) .....                                                        |                  | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|     | 5186063        | HOSE (1/4"X14" L.) .....                                                        |                  |                  | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|     | 5143371        | HOSE (#6X32" L.) .....                                                          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |
|     | 5138050        | HOSE ASSY. (#6X8.50" L.) .....                                                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  |
|     | 9432264        | CONNECTOR, 5/16" INV. FL. TUBE (12.9460) .....                                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  |                  |                  |                  |
|     | 442323         | CONNECTOR, 3/8" INV. FL. TUBE 90 DEG. (12.9460) .....                           |                  |                  |                  |                  |                  | 2                |                  |                  |                  |                  | 1                |                  |
|     | 118750         | CONNECTOR, 3/8" INV. FL. TUBE (12.9460) .....                                   |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  |
|     | 190367         | ELBOW, 1/4" STREET 90 DEG. (12.9550) .....                                      |                  |                  | 1                |                  |                  |                  | 1                |                  |                  |                  |                  |                  |
|     | 9432245        | ELBOW, 5/16" INV. FL. TUBE 90 DEG. (12.9490) .....                              |                  |                  | 1                |                  |                  | 1                |                  |                  |                  |                  |                  |                  |
|     | 118755         | ELBOW, 3/8" FL. TUBE 90 DEG. (12.9390)                                          |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  |

## 5 3 M P C E N G I N E S

..... NAME AND DESCRIPTION .....

4A 5139819 TUBE (DEV. L 4.36") .....  
4A 5139814 TUBE (DEV. L 8.36") .....  
4A 5128016 \* TUBE (DEV. L 10.12") .....

## 2.5000A FUEL LINES

FIG . . . PART  
NUMBER . . . . . NAME AND DESCRIPTION . . . . .

|                                           |         | TYPES |                                                 |   |   |   |   |   |   |   |   |   |   |
|-------------------------------------------|---------|-------|-------------------------------------------------|---|---|---|---|---|---|---|---|---|---|
|                                           |         | 1     | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|                                           |         | 0     | 0                                               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                           |         | 2     | 2                                               | 2 | 3 | 4 | 4 | 7 | 7 | 8 | 9 | 1 | 1 |
|                                           |         | 2     | 3                                               | 4 | 3 | 0 | 5 | 0 | 4 | 6 | 7 | 1 | 3 |
| <b>2.5210 - TUBE, FUEL DRAIN</b>          |         |       |                                                 |   |   |   |   |   |   |   |   |   |   |
| <b>(CONT'D)</b>                           |         |       |                                                 |   |   |   |   |   |   |   |   |   |   |
| 4A                                        | 5128283 | *     | TUBE (DEV. L. 25.82") (CROSSOVER) . . . . .     | 1 | 1 |   |   |   | 1 |   |   |   |   |
|                                           | 5133830 | *     | HOSE (#5X10.25" L) . . . . .                    |   |   |   | 1 |   |   |   |   |   |   |
|                                           | 5134531 | *     | HOSE, 5/16"X27" L (3.5500) . . . . .            |   |   |   | 1 |   |   |   |   |   |   |
|                                           | 5127911 |       | ELBOW, 1/4", .070" RESTRICTED . . . . .         |   |   |   |   | 1 |   | 1 |   |   |   |
|                                           | 5118440 |       | ELBOW, 5/16", .070" RESTRICTED . . . . .        | 1 | 1 | 1 | 1 |   | 1 |   | 1 | 1 |   |
|                                           | 5128927 |       | ELBOW, 5/16", .080" RESTRICTED . . . . .        |   |   |   | 1 |   |   |   |   |   |   |
|                                           | 9432245 |       | ELBOW, 5/16" INV. FL. TUBE 90 DEG. . . . .      |   |   |   | 1 |   |   |   |   |   |   |
|                                           |         |       | (12.9460)                                       |   |   |   |   |   |   |   |   |   |   |
|                                           | 5125447 |       | ELBOW, 3/8" TUBE SEALASTIC 45 DEG. . . . .      | 1 | 1 |   |   |   | 2 |   |   |   |   |
|                                           |         |       | (12.9425)                                       |   |   |   |   |   |   |   |   |   |   |
|                                           | 579969  |       | ELBOW, 3/8" TUBE SEALASTIC 90 DEG. . . . .      | 1 | 1 |   |   |   | 1 |   |   |   |   |
|                                           |         |       | (12.9425)                                       |   |   |   |   |   |   |   |   |   |   |
|                                           | 5179938 |       | SEAL RING, 3/8" TUBE SEALASTIC . . . . .        | 2 | 2 |   |   |   | 4 |   |   |   |   |
|                                           |         |       | (12.9435)                                       |   |   |   |   |   |   |   |   |   |   |
|                                           | 5128522 |       | EXTENSION, 3/8" INV. FL. TUBE 2" L . . . . .    |   |   |   | 1 |   |   |   |   |   |   |
|                                           | 444000  |       | ADAPTOR, 1/4"X1/4" (.070" . . . . .             |   |   |   |   |   |   | 1 |   |   |   |
|                                           |         |       | RESTRICTED)                                     |   |   |   |   |   |   |   |   |   |   |
|                                           | 5114551 |       | TAG, CABLE (7.4545) . . . . .                   |   |   |   |   |   | 2 |   |   |   |   |
|                                           | 9432264 |       | CONNECTOR, 5/16" INV. FL. TUBE . . . . .        |   |   |   | 1 |   |   |   |   |   |   |
|                                           |         |       | (12.9460)                                       |   |   |   |   |   |   |   |   |   |   |
|                                           | 425250  |       | CONNECTOR, 5/16" PIPE (12.9460) . . . . .       |   |   |   |   |   | 1 |   |   |   |   |
|                                           | 442323  |       | CONNECTOR, 3/8" INV. FL. TUBE 90 . . . . .      |   |   |   |   |   | 1 |   |   |   |   |
|                                           |         |       | DEG. (12.9460)                                  |   |   |   |   |   |   |   |   |   |   |
|                                           | 5179936 |       | CONNECTOR, 3/8" TUBE SEALASTIC . . . . .        |   |   |   |   |   | 1 |   |   |   |   |
|                                           |         |       | (12.9415)                                       |   |   |   |   |   |   |   |   |   |   |
|                                           | 5179937 |       | NUT, 3/8" TUBE SEALASTIC (12.9445) . . . . .    | 2 | 2 |   |   |   | 4 |   |   |   |   |
|                                           |         |       | <del>OBSCLETE, CUSTOMER TO FABRICATE</del>      |   |   |   |   |   |   |   |   |   |   |
|                                           |         |       | <del>FROM BULK MATERIAL SHOWN IN 12.9550.</del> |   |   |   |   |   |   |   |   |   |   |
| <b>2.5215 - TUBE, FUEL DRAIN FLEXIBLE</b> |         |       |                                                 |   |   |   |   |   |   |   |   |   |   |
| 4A                                        | 5171337 |       | HOSE (.38"X300") (2.5010) . . . . .             |   |   |   |   |   |   |   |   |   | 1 |
| 4A                                        | 5143365 |       | HOSE (#5X60") (2.5210) . . . . .                |   |   |   |   |   |   |   |   |   | 1 |
|                                           | 5169856 |       | ELBOW, 5/16" INV. FL. TUBE (1.1100) . . . . .   |   |   |   |   |   |   |   |   |   | 1 |
|                                           |         |       | <del>OBSCLETE, CUSTOMER TO FABRICATE</del>      |   |   |   |   |   |   |   |   |   |   |
|                                           |         |       | <del>FROM BULK MATERIAL SHOWN IN 12.9550.</del> |   |   |   |   |   |   |   |   |   |   |
| <b>2.5220 - CLIP, FUEL DRAIN TUBE</b>     |         |       |                                                 |   |   |   |   |   |   |   |   |   |   |
| 4A                                        | 5110070 |       | CLIP, 3/8" TUBE (2.5120) . . . . .              | 1 |   |   |   |   |   |   |   | 1 |   |
| 4A                                        | 5170860 |       | CLIP, 1/2" TUBE (4.6040) . . . . .              |   | 1 |   |   |   |   |   |   |   |   |
| 4A                                        | 5153473 |       | CLIP, 1/2" TUBE (4.6040) . . . . .              |   |   |   | 1 |   |   |   |   |   |   |
| 4A                                        | 140571  |       | CLIP, 1/2" CLOSED (12.9630) . . . . .           |   |   |   |   |   |   |   |   | 2 |   |
| 4A                                        | 5171509 |       | CLIP, 5/8" TUBE (9.1591) . . . . .              |   |   |   |   |   | 1 |   |   |   |   |
|                                           | 179835  |       | BOLT, 3/8"-16X5/8" (12.9001) . . . . .          |   |   |   | 1 |   |   |   |   |   |   |
|                                           | 180121  |       | BOLT, 3/8"-16X7/8" (12.9001) . . . . .          |   |   |   |   |   | 1 |   |   |   |   |

## 2.7000A MECHANICAL GOVERNOR

| ..FIG | PART<br>NUMBER | NAME AND DESCRIPTION                                                                                                                                | TYPES       |             |             |             |             |                  |                  |                  |                  |                  |                  |                  |
|-------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|       |                |                                                                                                                                                     | 9<br>4<br>5 | 9<br>4<br>6 | 9<br>4<br>8 | 9<br>6<br>0 | 9<br>8<br>4 | 1<br>0<br>3<br>4 | 1<br>0<br>4<br>8 | 1<br>0<br>5<br>9 | 1<br>0<br>7<br>0 | 1<br>0<br>7<br>3 | 1<br>0<br>7<br>4 | 1<br>0<br>7<br>6 |
|       |                | <b>2.7890 - TUBE ASSY., GOVERNOR LUBRICATION (CONT'D)</b>                                                                                           |             |             |             |             |             |                  |                  |                  |                  |                  |                  |                  |
| 5D    | 5143991        | ADAPTOR .....                                                                                                                                       |             |             |             |             |             |                  | 1                |                  |                  |                  |                  |                  |
|       | 5166265        | * ELBOW, 1/4" TUBE X 1/8" PIPE, 90<br>DEG. (7.4074) .....                                                                                           |             | 1           | 1           |             |             | 1                |                  |                  |                  |                  |                  |                  |
|       | 137421         | ELBOW, 1/4" PIPE X 7/16"-14, 90<br>DEG. (12.9460) .....                                                                                             |             |             |             |             |             |                  | 1                |                  |                  |                  |                  |                  |
|       | 5145009 #      | PLUG, 1/4" PIPE (12.9550) .....                                                                                                                     |             |             | 1           | 1           |             |                  |                  | 1                | 1                | 1                | 1                | 1                |
|       | 137405 @       | CONNECTOR, 1/4" TUBE X 1/8" PIPE<br>(12.9460) .....                                                                                                 |             | 1           | 1           |             |             | 1                | 1                |                  | 1                | 1                | 1                | 1                |
|       | 113699         | BOLT, 3/8"-24X1/2" (12.9001) .....                                                                                                                  |             |             |             |             |             |                  | 1                |                  |                  |                  |                  |                  |
|       |                | * PART OF GOVERNOR ASSY. USED TO<br>LUBRICATE UPPER CONTROL HOUSING.<br>@ NOT PART OF GOVERNOR ASSY.<br># IN CONTROL HOUSING, NOT REQUIRED<br>TUBE. |             |             |             |             |             |                  |                  |                  |                  |                  |                  |                  |
|       |                | <b>2.7910 - SPRING, GOVERNOR THROTTLE LEVER<br/>RETURN</b>                                                                                          |             |             |             |             |             |                  |                  |                  |                  |                  |                  |                  |
|       | 5146132        | SPRING, 2-53 (TORSION) (C & D ENG.) .....                                                                                                           |             |             | 1           |             |             |                  |                  | 1                |                  |                  |                  |                  |
|       | 5129711        | SPRING, 6V53 (TORSION) .....                                                                                                                        |             |             |             | 1           |             |                  |                  |                  |                  |                  |                  |                  |
|       |                | <b>2.7960 - GEAR, GOVERNOR DRIVE</b>                                                                                                                |             |             |             |             |             |                  |                  |                  |                  |                  |                  |                  |
|       | 5116025        | GEAR, 2,3,4-53 (R.H. HELIX) .....                                                                                                                   | 1           | 1           | 1           |             |             | 1                | 1                | 1                | 1                | 1                | 1                | 1                |
|       |                | (RA-RB-LC-LD)                                                                                                                                       |             |             |             |             |             |                  |                  |                  |                  |                  |                  |                  |
|       | 5116026        | GEAR, 2,3,4-53 (L.H. HELIX) .....                                                                                                                   | 1           | 1           | 1           |             |             | 1                | 1                | 1                | 1                | 1                | 1                | 1                |
|       |                | (RC-RD-LA-LB)                                                                                                                                       |             |             |             |             |             |                  |                  |                  |                  |                  |                  |                  |
|       | 124546         | KEY, 5/32"X5/8" WOODRUFF (12.9350) .....                                                                                                            | 1           | 1           | 1           |             |             | 1                | 1                | 1                | 1                | 1                | 1                | 1                |
|       | 9434177        | NUT, 5/16"-18 LOCK (12.9140) .....                                                                                                                  | 1           | 1           | 1           |             |             | 1                | 1                | 1                | 1                | 1                | 1                | 1                |

## 2.7000A MECHANICAL GOVERNOR

## TYPES

**2.7001 - GOVERNOR ASSY.**

~~FOR TYPE 1100 USE TYPE 1122.~~

A GOVERNOR ASSY. INCLUDES ITEMS IN 2.7002, 2.7045 THRU 2.7810 EXCEPT 2.7165, 2.7520, 2.7530, 2.7740 AND 2.7890. CLOSED LINKAGE GOVERNORS DO NOT INCLUDE ITEMS IN 2.7170. 6V-53 GOVERNORS DO NOT INCLUDE ITEMS IN 2.7470.

|                   |                                     |       |
|-------------------|-------------------------------------|-------|
| 5147138           | GOVERNOR ASSY., 8V53 (LIMITING)     | ..... |
| 5137430           | GOVERNOR ASSY., 3-53 (VARIABLE)     | ..... |
| 5129815 #         | GOVERNOR ASSY., 3,4-53 (VARIABLE)   | ..... |
|                   | (5138851)                           | ..... |
| 5129816           | GOVERNOR ASSY., 3,4-53 (VARIABLE)   | ..... |
|                   | (5138852)                           | ..... |
| 5129813 #         | GOVERNOR ASSY., 3-53 (VARIABLE)     | ..... |
|                   | (5138851)                           | ..... |
| 5143809           | GOVERNOR ASSY., 3-53 (SINGLE RANGE  | ..... |
|                   | CONSTANT SPEED)                     | ..... |
| 5138851           | GOVERNOR ASSY., 3-53 (VARIABLE)     | ..... |
| 5139676           | GOVERNOR ASSY., 3-53 (LIMITING)     | ..... |
| 5144317           | GOVERNOR ASSY., 8V53 (LIMITING)     | ..... |
| 5145924           | GOVERNOR ASSY., 6V53 (LIMITING)     | ..... |
| 225529            | SCREW, 3/8"-24X7/8" FIL HD.         | ..... |
|                   | (12.9010)                           | ..... |
| 9428477           | PLUG, 15/16" CUP                    | ..... |
| 186629            | BOLT, 5/16"-18X1" (12.9001)         | ..... |
| <del>180083</del> | BOLT, 5/16"-18X1 1/2" (12.9001)     | ..... |
| <del>186679</del> | BOLT, 3/8"-16X1 1/4" (12.9001)      | ..... |
| 186612            | BOLT, 3/8"-16X1 3/8" (12.9001)      | ..... |
| 427588            | BOLT, 3/8"-16X2 1/2" (12.9001)      | ..... |
| 179850            | BOLT, 3/8"-16X2 3/4" (12.9001)      | ..... |
| 450517            | BOLT, 3/8"-16X4 3/4" (12.9001)      | ..... |
| 9423447           | BOLT, 3/8"-16X5 1/2" (12.9001)      | ..... |
| 215510            | BOLT, 3/8"-16X5 3/4" (12.9001)      | ..... |
| 9414285           | BOLT, 3/8"-24X7/8" 12 PT. HD.       | ..... |
|                   | (12.9001)                           | ..... |
| 179858            | BOLT, 7/16"-14X1" (12.9001)         | ..... |
| 5152148           | WASHER, 3/8"X9/16" COPPER (12.9190) | ..... |
| 5151487           | WASHER (2.7430)                     | ..... |
| 103340            | WASHER, 5/16" FLAT (12.9190)        | ..... |
| 5145225           | WASHER, 3/8" COPPER (12.9190)       | ..... |
| 9414322           | WASHER, 3/8" FLAT (12.9190)         | ..... |
| 5150568           | WASHER, 7/16"X3/4" COPPER (12.9190) | ..... |
| 103320            | LOCKWASHER, 5/16" (12.9200)         | ..... |
| 103321            | LOCKWASHER, 3/8" (12.9200)          | ..... |

~~## NOT SERVICED, COMPONENTS ARE~~

~~AVAILABLE FOR A COMPLETE~~

~~REPLACEMENT USE ASSEMBLY SHOWN IN~~

## 2.7000A MECHANICAL GOVERNOR

| PART |                                                                                  | TYPES                |   |   |   |   |   |   |   |   |   |
|------|----------------------------------------------------------------------------------|----------------------|---|---|---|---|---|---|---|---|---|
| FIG  | NUMBER                                                                           | NAME AND DESCRIPTION |   |   |   |   |   |   |   |   |   |
|      |                                                                                  | 1                    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|      |                                                                                  | 0                    | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|      |                                                                                  | 8                    | 8 | 2 | 4 | 5 | 5 | 5 | 6 | 2 | 2 |
|      |                                                                                  | 0                    | 5 | 2 | 4 | 3 | 4 | 5 | 7 | 8 | 4 |
|      | 2.7001 - GOVERNOR ASSY.<br>(CONT'D)                                              |                      |   |   |   |   |   |   |   |   |   |
|      | <del>PARENTHESIZED</del>                                                         |                      |   |   |   |   |   |   |   |   |   |
|      | 2.7002 - NAME PLATE, GOVERNOR                                                    |                      |   |   |   |   |   |   |   |   |   |
|      | 5122186 NAME PLATE                                                               | 1                    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|      | 145369 SCREW, #4X3/16 RED. HD. DR.                                               | 2                    | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
|      | 2.7010 - GASKET, GOVERNOR TO ENGINE                                              |                      |   |   |   |   |   |   |   |   |   |
| 5B   | 5116336 GASKET, 3,4-53                                                           | 1                    | 1 | 1 | 1 | 1 | 1 |   |   | 1 |   |
|      | 5121345 GASKET, 6V53 (TO END PLATE)                                              |                      |   |   |   |   |   |   | 1 |   |   |
|      | 5132765 GASKET, 8V53 (3.4190)                                                    |                      |   |   |   |   |   |   | 1 |   | 1 |
|      | 2.7045 - COVER ASSY., GOVERNOR COMPLETE                                          |                      |   |   |   |   |   |   |   |   |   |
|      | SEE ASSEMBLY BREAKDOWN AS<br>INDICATED BELOW.                                    |                      |   |   |   |   |   |   |   |   |   |
|      | 5126429 COVER ASSY., 3-53 (LIMITING)<br>(A & B ENG.) (PAGE B1)                   |                      |   |   |   | 1 |   |   |   |   |   |
|      | 5126432 COVER ASSY., 3,4-53 (VARIABLE)<br>(C & D ENG.) (PAGE A1)                 | 1                    | 1 | 1 | 1 |   | 1 |   |   |   |   |
|      | 5126433 COVER ASSY., 3,4-53 (VARIABLE &<br>CONSTANT) (A & B ONLY) (PAGE A1)      |                      |   |   |   |   |   | 1 |   | 1 |   |
| 5M   | 5132809 COVER ASSY., 8V53 (LIMITING)<br>(A ENG.) (PAGE B1)                       |                      |   |   |   |   |   |   | 1 |   | 1 |
|      | 5129682 COVER ASSY., 6V53 (LIMITING)<br>(A ENG.) (PAGE B1)                       |                      |   |   |   |   |   |   |   | 1 |   |
| 5M   | 5183701 SCREW, 1/4"-20X5/8" FIL. HD.<br>(2.7812)                                 |                      |   |   |   |   |   |   | 1 | 1 | 1 |
| 5E,H | 456742 SCREW, 1/4"-20X5/8" FIL. HD. (WITH<br>LOCKWASHER) (12.9010)               | 3                    | 4 |   | 3 | 4 |   |   |   |   |   |
| 5J,M | 9417926 SCREW, 1/4"-20X3/4" FIL. HD. (WITH<br>LOCKWASHER) (12.9010)              |                      |   | 3 |   |   |   | 3 | 7 | 6 | 3 |
|      | 5126792 SCREW, 1/4"-20X3/4" FIL. HD.<br>(GROOVED FOR TORSION SPRING)             | 1                    | 1 | 1 | 1 |   | 1 | 1 |   | 1 |   |
| 5E,J | 120380 LOCKWASHER, 1/4" (12.9200)<br>* NOT SERVICED, USE 453007 PLUS<br>5101768. | 1                    |   |   | 1 |   | 1 | 1 | 1 | 1 | 1 |
|      | 2.7051 - GASKET, GOVERNOR COVER                                                  |                      |   |   |   |   |   |   |   |   |   |
| 5E,H | 5122742 GASKET, 3,4-53                                                           | 1                    | 1 | 1 | 1 | 1 | 1 |   |   | 1 |   |
| 5J   | 5121342 GASKET, 6V53                                                             |                      |   |   |   |   |   |   | 1 |   |   |
| 5M   | 5132783 GASKET, 8V53                                                             |                      |   |   |   |   |   |   | 1 |   | 1 |

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## 2.7000A MECHANICAL GOVERNOR

| PART                                                      |         |                                                 | TYPES |   |   |   |   |   |   |   |   |   |
|-----------------------------------------------------------|---------|-------------------------------------------------|-------|---|---|---|---|---|---|---|---|---|
| FIG                                                       | NUMBER  | NAME AND DESCRIPTION                            | 1     | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|                                                           |         |                                                 | 8     | 8 | 2 | 4 | 5 | 5 | 5 | 5 | 6 | 2 |
|                                                           |         |                                                 | 0     | 5 | 2 | 4 | 3 | 4 | 5 | 7 | 8 | 0 |
|                                                           |         |                                                 |       |   |   |   |   |   |   |   |   | 4 |
| <b>2.7255 - SHAFT, GOVERNOR OPERATING</b>                 |         |                                                 |       |   |   |   |   |   |   |   |   |   |
| 5D                                                        | 5122751 | SHAFT, 3,4-53                                   | 1     | 1 | 1 | 1 | 1 | 1 | 1 |   | 1 |   |
| 5J                                                        | 5121339 | SHAFT, 6V53                                     |       |   |   |   |   |   |   |   | 1 |   |
| 5M                                                        | 5133437 | SHAFT, 8V53 (INCLUDES INTEGRAL BEARINGS)        |       |   |   |   |   |   |   | 1 |   | 1 |
| <b>2.7257 - TUBE, GOVERNOR OPERATING SHAFT</b>            |         |                                                 |       |   |   |   |   |   |   |   |   |   |
| 5D,K                                                      | 5122754 | TUBE, 3,4-53                                    | 1     |   | 1 | 1 | 1 | 1 |   |   |   | 1 |
| <b>2.7260 - BEARING, GOVERNOR OPERATING SHAFT (UPPER)</b> |         |                                                 |       |   |   |   |   |   |   |   |   |   |
| 5D,J                                                      | 9431894 | BEARING                                         | 1     | 1 | 1 | 1 | 1 | 1 | 1 |   | 1 | 1 |
| 5D,J                                                      | 9421917 | SCREW & LOCKWASHER ASSY. #10-24X7/16" (12.9025) | 1     | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5D,J                                                      | 120391  | WASHER, #10 FLAT (12.9190)                      |       | 1 |   |   |   | 1 |   | 1 |   | 1 |
| <b>2.7270 - BEARING, GOVERNOR OPERATING SHAFT (LOWER)</b> |         |                                                 |       |   |   |   |   |   |   |   |   |   |
| 5D,K                                                      | 9431887 | BEARING, 3,4-53                                 | 1     | 1 | 1 | 1 | 1 | 1 | 1 |   |   | 1 |
| 5J                                                        | 954987  | BEARING, 6V53                                   |       |   |   |   |   |   |   |   | 1 |   |
| 5D,K                                                      | 9413284 | RING, SNAP (TO HOUSING)                         | 1     | 1 | 1 | 1 | 1 | 1 | 1 |   |   | 1 |
| <b>2.7280 - LEVER, GOVERNOR OPERATING SHAFT</b>           |         |                                                 |       |   |   |   |   |   |   |   |   |   |
| A LEVER ASSY. INCLUDES PIN IN 2.7300.                     |         |                                                 |       |   |   |   |   |   |   |   |   |   |
| 5D                                                        | 5122750 | LEVER ASSY., 3,4-53 (A & B ENG.)                |       |   |   |   |   |   | 1 |   |   | 1 |
| 5D                                                        | 5122749 | LEVER ASSY., 3,4-53 (C & D ENG.)                | 1     | 1 | 1 | 1 |   | 1 |   |   |   |   |
| 5J                                                        | 5116011 | LEVER ASSY., 6V53                               |       |   |   |   |   |   |   |   | 1 |   |
| 5M                                                        | 5132747 | LEVER ASSY., 8V53 (A ENG.)                      |       |   |   |   |   |   |   | 1 |   | 1 |
| 5M                                                        | 5150898 | SCREW, 3,4-53 (GAP ADJUSTING)                   | 1     | 1 | 1 | 1 | 1 | 1 |   |   |   |   |
| 5M                                                        | 5132962 | SCREW, 6,8V53 (GAP ADJUSTING)                   |       |   |   |   |   |   |   |   | 1 |   |
| 5J                                                        | 5145007 | SCREW, 8V53 (GAP ADJUSTING)                     |       |   |   |   |   |   |   | 1 |   | 1 |
| 5J                                                        | 5145008 | SCREW, 8V53 (GAP ADJUSTING STOP)                |       |   |   |   |   |   |   | 1 |   | 1 |
|                                                           | 114492  | NUT, 1/4"-28 HEX. (12.9120)                     | 1     | 1 | 1 | 1 | 1 | 1 |   |   | 1 | 1 |
| <b>2.7290 - FORK, GOVERNOR OPERATING LEVER</b>            |         |                                                 |       |   |   |   |   |   |   |   |   |   |
| 5D                                                        | 5122741 | FORK, 3,4-53                                    | 1     | 1 | 1 | 1 | 1 | 1 | 1 |   |   | 1 |
| 5J                                                        | 5138335 | FORK, 6V53                                      |       |   |   |   |   |   |   |   | 1 |   |
| 5M                                                        | 5133024 | FORK, 8V53                                      |       |   |   |   |   |   |   | 1 |   | 1 |

## TYPES

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## 2.7000A MECHANICAL GOVERNOR

| PART                                                           |                                            | TYPES                |   |   |   |   |   |   |   |   |   |
|----------------------------------------------------------------|--------------------------------------------|----------------------|---|---|---|---|---|---|---|---|---|
| FIG                                                            | NUMBER                                     | NAME AND DESCRIPTION |   |   |   |   |   |   |   |   |   |
|                                                                |                                            | 1                    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|                                                                |                                            | 0                    | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|                                                                |                                            | 8                    | 8 | 2 | 4 | 5 | 5 | 5 | 6 | 2 | 2 |
|                                                                |                                            | 0                    | 5 | 2 | 4 | 3 | 4 | 5 | 7 | 8 | 4 |
| 2.7317 - LEVER ASSY., GOVERNOR CONTROL OPERATION LINK (CONT'D) |                                            |                      |   |   |   |   |   |   |   |   |   |
|                                                                |                                            | BEARINGS)            |   |   |   |   |   |   |   |   |   |
| 5J,M                                                           | 447196                                     |                      |   |   |   |   |   |   | 2 | 2 | 2 |
| 5M                                                             | 5143866                                    |                      |   |   |   |   |   |   | 1 |   |   |
| 5M                                                             | 5127375                                    |                      |   |   |   |   |   |   | 1 |   | 1 |
| 5J,M                                                           | 5117693                                    |                      |   |   |   |   |   |   |   | 2 | 2 |
| 5J                                                             | 142583                                     |                      | 1 |   |   |   |   |   |   |   |   |
| 5J                                                             | 148148                                     |                      |   |   |   |   |   |   |   | 1 |   |
| 5M                                                             | 5143865                                    |                      |   |   |   |   |   |   | 1 |   |   |
| 5M                                                             | 5122263                                    |                      |   |   |   |   |   |   | 1 |   | 1 |
| 5M                                                             | 9421917                                    |                      |   |   |   |   |   |   | 1 |   | 1 |
|                                                                |                                            |                      |   |   |   |   |   |   |   | 2 |   |
| 5J                                                             | 5151487                                    |                      |   |   |   |   |   |   |   |   | 1 |
| 5M                                                             | 5150855                                    |                      |   |   |   |   |   |   | 1 |   |   |
| 2.7340 - HOUSING, GOVERNOR WEIGHT                              |                                            |                      |   |   |   |   |   |   |   |   |   |
| 5D,K                                                           | 5129731                                    |                      |   |   |   | 1 |   | 1 |   |   | 1 |
| 5D,K                                                           | 5129730                                    | 1                    |   | 1 | 1 |   | 1 |   |   |   |   |
| 5K                                                             | 5119127                                    | 1                    | 1 | 1 | 1 | 1 | 1 | 1 |   |   | 1 |
| 5D,K                                                           | 9428477                                    | 1                    |   | 1 | 1 | 1 |   | 1 |   |   | 1 |
| 2.7350 - SHAFT & CARRIER ASSY., GOVERNOR WEIGHT                |                                            |                      |   |   |   |   |   |   |   |   |   |
| SEE ASSEMBLY BREAKDOWN AS INDICATED BELOW.                     |                                            |                      |   |   |   |   |   |   |   |   |   |
| 5100061                                                        | SHAFT & CARRIER ASSY., 3-53 (PAGE B1)      |                      |   |   |   | 1 |   |   |   |   |   |
| 5125042                                                        | SHAFT & CARRIER ASSY., 3-53 (PAGE B1)      | 1                    |   |   |   |   |   |   |   |   |   |
| 5125043                                                        | SHAFT & CARRIER ASSY., 3,4-53 (PAGE B1 C1) |                      |   | 1 | 1 |   |   | 1 |   |   | 1 |
| 5144103                                                        | SHAFT & CARRIER ASSY., 3-53 (PAGE B3)      |                      | 1 |   |   |   | 1 |   |   |   |   |
| 5144315                                                        | SHAFT & CARRIER ASSY., 8V53 (PAGE B3)      |                      |   |   |   |   |   |   | 1 |   |   |
| 5133819                                                        | SHAFT & CARRIER ASSY., 6V53 (PAGE B1)      |                      |   |   |   |   |   |   |   | 1 |   |
| 5133590                                                        | SHAFT & CARRIER ASSY., 8V53 (PAGE B1)      |                      |   |   |   |   |   |   |   |   | 1 |
| 110529                                                         | SCREW, #10-24X1/4" (12.9300)               | 1                    | 1 | 1 | 1 | 1 | 1 | 1 |   | 1 |   |
| * NOT SERVICED, COMPONENTS ARE AVAILABLE.                      |                                            |                      |   |   |   |   |   |   |   |   |   |

## 2.7000A MECHANICAL GOVERNOR

| PART                                                   |           |                                             | TYPES |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------------------------|-----------|---------------------------------------------|-------|---|---|---|---|---|---|---|---|---|---|---|
| FIG                                                    | NUMBER    | NAME AND DESCRIPTION                        | 1     | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|                                                        |           |                                             | 0     | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 0 |
|                                                        |           |                                             | 8     | 8 | 2 | 4 | 5 | 5 | 5 | 5 | 6 | 0 | 0 | 4 |
|                                                        |           |                                             | 0     | 5 | 2 | 4 | 3 | 4 | 5 | 7 | 8 | 2 | 4 |   |
| <b>2.7380 - RISER, GOVERNOR</b>                        |           |                                             |       |   |   |   |   |   |   |   |   |   |   |   |
| 5M                                                     | 5132840   | RISER, 8V53 .....                           |       |   |   |   |   |   |   |   |   |   | 1 |   |
| <b>2.7460 - BEARING, GOVERNOR WEIGHT RISER THRUST</b>  |           |                                             |       |   |   |   |   |   |   |   |   |   |   |   |
| 5M                                                     | 451905    | BEARING .....                               | 1     |   |   | 1 | 1 |   | 1 | 1 | 1 | 1 | 1 |   |
| <b>2.7470 - BEARING, GOVERNOR WEIGHT CARRIER SHAFT</b> |           |                                             |       |   |   |   |   |   |   |   |   |   |   |   |
| 5L                                                     | 907045    | BEARING, 3,4-53 (N.D. #3203L1A) .....       | 1     |   |   |   | 1 |   | 1 |   |   |   |   |   |
| 5J                                                     | 907674    | BEARING, 6V53 .....                         |       |   |   |   |   |   |   |   | 1 |   |   |   |
| 5M                                                     | 907681    | BEARING, 8V53 (N.D. #3303FXR1A) .....       |       |   |   |   |   |   |   |   | 1 |   | 1 |   |
| 5L                                                     | 9411502   | RETAINER .....                              | 1     |   |   |   | 1 |   |   |   |   |   |   |   |
|                                                        | 5150884   | SCREW .....                                 |       |   |   |   |   |   |   | 1 |   |   | 1 |   |
|                                                        | 5152462   | PLUG, 1 1/8" EXPANSION (2.7230) .....       |       |   |   |   |   |   |   |   | 1 |   |   |   |
| 5M                                                     | 5150941   | WASHER (2.7310) .....                       |       |   |   |   |   |   |   | 1 |   |   | 1 |   |
| 5M                                                     | 5150897   | LOCKWASHER .....                            |       |   |   |   |   |   |   | 1 |   |   | 1 |   |
| <b>2.7475 - SPACER, GOVERNOR WEIGHT CARRIER SHAFT</b>  |           |                                             |       |   |   |   |   |   |   |   |   |   |   |   |
| 5B                                                     | 5122738   | SPACER (BETWEEN GEAR AND BEARING) .....     | 1     | 1 | 1 | 1 | 1 | 1 | 1 |   |   | 1 |   |   |
| <b>2.7510 - CAP, GOVERNOR WEIGHT HOUSING</b>           |           |                                             |       |   |   |   |   |   |   |   |   |   |   |   |
| 5M                                                     | 5140533   | CAP, 3,4-53 .....                           |       |   |   |   |   |   | 1 |   |   |   | 1 |   |
| <b>2.7515 - GASKET, GOVERNOR WEIGHT HOUSING CAP</b>    |           |                                             |       |   |   |   |   |   |   |   |   |   |   |   |
| 5M                                                     | 5134092   | GASKET, 3,4-53 .....                        |       |   |   |   |   |   | 1 |   |   |   | 1 |   |
| <b>2.7520 - COVER, GOVERNOR WEIGHT HOUSING</b>         |           |                                             |       |   |   |   |   |   |   |   |   |   |   |   |
|                                                        | 5152716 # | COVER, 3,4-53 (3.4223) .....                |       |   |   | 1 | 1 |   | 1 |   |   |   |   |   |
|                                                        | 179816 #  | BOLT, 5/16"-18X3/4" (12.9001) .....         |       |   |   | 3 |   |   | 3 |   |   |   |   |   |
|                                                        | 186625 #  | BOLT, 5/16"-18X7/8" (12.9001) .....         |       |   |   |   | 3 |   |   |   |   |   |   |   |
|                                                        | 103320 #  | LOCKWASHER, 5/16" (12.9200) .....           |       |   |   | 3 |   |   | 3 |   |   |   |   |   |
|                                                        |           | <del># REQUIRED WHEN FUEL PUMP IS NOT</del> |       |   |   |   |   |   |   |   |   |   |   |   |
|                                                        |           | <del>DRIVEN FROM GOVERNOR.</del>            |       |   |   |   |   |   |   |   |   |   |   |   |
| <b>2.7530 - GASKET, GOVERNOR WEIGHT HOUSING COVER</b>  |           |                                             |       |   |   |   |   |   |   |   |   |   |   |   |
|                                                        | 5150193 # | GASKET, 3,4-53 (5.5010) .....               |       |   |   | 1 | 1 |   | 1 |   |   |   |   |   |
|                                                        |           | <del># REQUIRED WHEN FUEL PUMP IS NOT</del> |       |   |   |   |   |   |   |   |   |   |   |   |
|                                                        |           | <del>DRIVEN FROM GOVERNOR.</del>            |       |   |   |   |   |   |   |   |   |   |   |   |

## 2.7000A MECHANICAL GOVERNOR

| PART                                                |           | TYPES                                               |   |   |   |   |   |   |   |   |   |
|-----------------------------------------------------|-----------|-----------------------------------------------------|---|---|---|---|---|---|---|---|---|
| FIG                                                 | NUMBER    | NAME AND DESCRIPTION                                |   |   |   |   |   |   |   |   |   |
|                                                     |           | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|                                                     |           | 0                                                   | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|                                                     |           | 8                                                   | 8 | 2 | 4 | 5 | 5 | 5 | 6 | 2 | 2 |
|                                                     |           | 0                                                   | 5 | 2 | 4 | 3 | 4 | 5 | 7 | 8 | 4 |
| 2.7540 - SPRING, GOVERNOR LOW SPEED                 |           |                                                     |   |   |   |   |   |   |   |   |   |
| 5G                                                  | 5183704   | SPRING, 3,8V53 (TWO YELLOW STRIPES) . . . . .       |   |   |   |   |   |   |   |   |   |
|                                                     | 5122165   | SPRING, 6V53 (TWO YELLOW STRIPES) . . . . .         |   |   |   |   |   |   |   |   |   |
|                                                     | 5151604   | SPRING, 8V53 (NARROW GREEN STRIPES) . . . . .       |   |   |   |   |   |   |   |   |   |
| 2.7550 - SPRING, GOVERNOR HIGH SPEED                |           |                                                     |   |   |   |   |   |   |   |   |   |
|                                                     | 5132859   | SPRING, 8V53 (ALUMINUM STRIPE) . . . . .            |   |   |   |   |   |   |   |   |   |
|                                                     | 5126272   | SPRING, 6V53 (ONE ORANGE STRIPE) . . . . .          |   |   |   |   |   |   |   |   |   |
|                                                     | 5124201   | SPRING, 3-53 (TWO WHITE STRIPES) . . . . .          |   |   |   |   |   |   |   |   |   |
|                                                     | 5132444   | SPRING, 3-53 (TWO GREEN STRIPES) . . . . .          |   |   |   |   |   |   |   |   |   |
|                                                     | 5129071 & | SPRING, 3,4-53 (THREE BLUE STRIPES) . . . . .       |   |   |   |   |   |   |   |   |   |
|                                                     | 5136160   | SPRING, 8V53 (TWO PINK STRIPES) . . . . .           |   |   |   |   |   |   |   |   |   |
|                                                     |           | <del>&amp; REQUIRED TO CONVERT LIMITING SPEED</del> |   |   |   |   |   |   |   |   |   |
|                                                     |           | <del>TO DUAL SPEED.</del>                           |   |   |   |   |   |   |   |   |   |
| 2.7560 - PLUNGER, GOVERNOR LOW SPEED SPRING         |           |                                                     |   |   |   |   |   |   |   |   |   |
| 5G                                                  | 5126135   | PLUNGER, 3,6V53 . . . . .                           |   |   |   |   |   |   |   |   |   |
|                                                     | 5125418   | PLUNGER, 3-53 . . . . .                             |   |   |   |   |   |   |   |   |   |
| 5G                                                  | 5132854   | PLUNGER, 8V53 (4.74 L.) . . . . .                   |   |   |   |   |   |   |   |   |   |
|                                                     | 5182555   | PLUNGER, 8V53 . . . . .                             |   |   |   |   |   |   |   |   |   |
| 2.7570 - SEAT, GOVERNOR LOW SPEED SPRING            |           |                                                     |   |   |   |   |   |   |   |   |   |
| 5G,M                                                | 5150892   | SEAT, 3,6,8V53 . . . . .                            |   |   |   |   |   |   |   |   |   |
| 2.7580 - CAP, GOVERNOR LOW SPEED SPRING             |           |                                                     |   |   |   |   |   |   |   |   |   |
| 5G                                                  | 5150899   | CAP, 3,6V53 . . . . .                               |   |   |   |   |   |   |   |   |   |
| 5G                                                  | 5117931   | CAP, 8V53 . . . . .                                 |   |   |   |   |   |   |   |   |   |
| 2.7590 - SCREW, GOVERNOR LOW SPEED SPRING ADJUSTING |           |                                                     |   |   |   |   |   |   |   |   |   |
|                                                     | 5101432   | PIN . . . . .                                       |   |   |   |   |   |   |   |   |   |
|                                                     | 222449    | SCREW, 1/4"-28X1" HEX. SOC.(12.9076) . . . . .      |   |   |   |   |   |   |   |   |   |
|                                                     | 5130034   | SCREW, 3-53 . . . . .                               |   |   |   |   |   |   |   |   |   |
|                                                     | 5101770   | SCREW, 8V53 (4.36 L.) . . . . .                     |   |   |   |   |   |   |   |   |   |
|                                                     | 5150891   | SCREW, 8V53 . . . . .                               |   |   |   |   |   |   |   |   |   |
|                                                     | 114492    | NUT, 1/4"-28 HEX. (12.9120) . . . . .               |   |   |   |   |   |   |   |   |   |
|                                                     |           | <del>NOT SERVICED, USE 5102250 PLUG</del>           |   |   |   |   |   |   |   |   |   |
|                                                     |           | <del>5101798.</del>                                 |   |   |   |   |   |   |   |   |   |

## 2.7000A MECHANICAL GOVERNOR

| PART                                                         |         | NAME AND DESCRIPTION                      | TYPES |    |   |   |    |    |   |    |    |   |   |   |
|--------------------------------------------------------------|---------|-------------------------------------------|-------|----|---|---|----|----|---|----|----|---|---|---|
| FIG                                                          | NUMBER  |                                           | 1     | 1  | 1 | 1 | 1  | 1  | 1 | 1  | 1  | 1 | 1 | 1 |
|                                                              |         |                                           | 0     | 0  | 1 | 1 | 1  | 1  | 1 | 1  | 1  | 1 | 1 | 1 |
|                                                              |         |                                           | 8     | 8  | 2 | 4 | 5  | 5  | 5 | 5  | 6  | 2 | 2 | 4 |
|                                                              |         |                                           | 0     | 5  | 2 | 4 | 3  | 4  | 5 | 7  | 8  | 2 | 4 |   |
| 2.7600 - SHIM, GOVERNOR HIGH SPEED SPRING                    |         |                                           |       |    |   |   |    |    |   |    |    |   |   |   |
| 5G                                                           | 5150947 | SHIM (.010")                              |       | AR |   |   | AR | AR |   |    | AR |   |   |   |
| 5G                                                           | 5133008 | SHIM (.010")                              |       |    |   |   |    |    |   | AR |    |   |   |   |
|                                                              | 5133009 | SHIM (.0538")                             |       |    |   |   |    |    |   | AR |    |   |   |   |
| 5G                                                           | 5151249 | SHIM (.078")                              |       | AR |   |   | AR | AR |   |    | AR |   |   |   |
| 2.7610 - RETAINER, GOVERNOR HIGH SPEED SPRING                |         |                                           |       |    |   |   |    |    |   |    |    |   |   |   |
| 5G                                                           | 5174436 | RETAINER                                  |       |    |   |   |    | 1  |   |    | 1  |   |   |   |
| 5G                                                           | 5132856 | RETAINER (2.60"L)                         |       | 1  |   |   |    |    |   | 1  |    |   |   |   |
| 5G                                                           | 5182557 | RETAINER                                  |       |    |   |   |    |    |   |    |    |   | 1 |   |
| 2.7612 - PISTON, GOVERNOR SPEED ADJUSTING                    |         |                                           |       |    |   |   |    |    |   |    |    |   |   |   |
|                                                              | 5178857 | PISTON, 8V53                              |       |    |   |   |    |    |   | 1  |    |   |   |   |
|                                                              | 5133752 | SEAL RING                                 |       |    |   |   |    |    |   | 1  |    |   |   |   |
|                                                              | 5132857 | SPACER                                    |       |    |   |   |    |    |   | 1  |    |   |   |   |
| 2.7615 - LOCKNUT, GOVERNOR HIGH SPEED SPRING                 |         |                                           |       |    |   |   |    |    |   |    |    |   |   |   |
|                                                              | 5182558 | LOCKNUT                                   |       |    |   |   |    |    |   |    |    |   | 1 |   |
| 2.7620 - GUIDE, GOVERNOR SPRING                              |         |                                           |       |    |   |   |    |    |   |    |    |   |   |   |
|                                                              | 5124551 | GUIDE                                     |       |    |   |   |    |    |   | 1  |    |   |   |   |
| 2.7630 - COVER, GOVERNOR HIGH SPEED SPRING                   |         |                                           |       |    |   |   |    |    |   |    |    |   |   |   |
|                                                              | 5131132 | COVER, 3.6V53                             |       |    |   |   | 1  |    |   |    | 1  |   |   |   |
|                                                              | 5153141 | COVER, 3-53                               |       | 1  |   |   |    | 1  |   |    |    |   |   |   |
|                                                              | 5113869 | @ COVER, 8V53                             |       |    |   |   |    |    |   | 1  |    |   |   |   |
|                                                              | 5153408 | + BOLT, 5/16"-18X1/2" (12.9001)           |       | 2  |   |   |    | 2  |   |    |    |   |   |   |
|                                                              | 220623  | BOLT, 5/16"-18X3/4" (12.9001)             |       |    |   |   | 2  |    |   |    | 2  |   |   |   |
|                                                              | 186274  | BOLT, 5/16"-18X5" (12.9001)               |       |    |   |   |    |    |   | 2  |    |   |   |   |
|                                                              | 5155596 | WASHER, 5/16" FLAT (COPPER)               |       | 2  |   |   |    | 2  |   |    | 2  |   |   |   |
|                                                              |         | (12.9190)                                 |       |    |   |   |    |    |   |    |    |   |   |   |
|                                                              | 103320  | LOCKWASHER, 5/16" (12.9200)               |       |    |   |   | 2  |    |   | 2  |    |   |   |   |
|                                                              |         | <del>NOT SERVICED, USE 5131132 PLUS</del> |       |    |   |   |    |    |   |    |    |   |   |   |
|                                                              |         | <del>(2) 5153408 BOLTS</del>              |       |    |   |   |    |    |   |    |    |   |   |   |
|                                                              |         | <del>@ NOT SERVICED, USE 5123040</del>    |       |    |   |   |    |    |   |    |    |   |   |   |
|                                                              |         | <del>COMPLETE</del>                       |       |    |   |   |    |    |   |    |    |   |   |   |
| 2.7635 - HOUSING, GOVERNOR HIGH SPEED SPRING ADJUSTING SCREW |         |                                           |       |    |   |   |    |    |   |    |    |   |   |   |
|                                                              | 5132858 | HOUSING, 8V53 (4.08 L)                    |       |    |   |   |    |    |   | 1  |    |   |   |   |
|                                                              | 5182559 | HOUSING, 8V53                             |       |    |   |   |    |    |   |    |    |   | 1 |   |
|                                                              | 445520  | BOLT, 5/16"-18X3 1/2" (12.9001)           |       |    |   |   |    |    |   |    |    |   | 2 |   |

## 2.7000A MECHANICAL GOVERNOR

| PART   |                   | TYPES                                                                                                                                                          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|--------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| FIG    | NUMBER            | NAME AND DESCRIPTION                                                                                                                                           | 1<br>0<br>8<br>0 | 1<br>0<br>8<br>5 | 1<br>1<br>2<br>2 | 1<br>1<br>4<br>4 | 1<br>1<br>5<br>3 | 1<br>1<br>5<br>4 | 1<br>1<br>5<br>5 | 1<br>1<br>5<br>7 | 1<br>1<br>6<br>8 | 1<br>2<br>0<br>2 | 1<br>2<br>0<br>4 |
|        | 2.7635            | HOUSING, GOVERNOR HIGH SPEED SPRING<br>ADJUSTING SCREW (CONT'D)                                                                                                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|        | 5155596           | WASHER, 5/16" FLAT COPPER (12.9190) . . . . .                                                                                                                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 2                |
|        | 2.7650            | GASKET, GOVERNOR HIGH SPEED SPRING                                                                                                                             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 5G,M   | 5152944           | GASKET . . . . .                                                                                                                                               |                  | 1                |                  |                  | 1                | 1                |                  | 1                | 1                |                  | 1                |
|        | 2.7655            | SCREW, GOVERNOR HIGH SPEED CONTROL                                                                                                                             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|        | 9414499           | SCREW, 5/16"-24X1 1/2" HEX. SOCKET . . . . .<br>SET (12.9076)                                                                                                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  |
|        | 5155596           | WASHER, 5/16" FLAT COPPER (12.9190) . . . . .                                                                                                                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  |
|        | 214279            | NUT, 5/16"-24 SELF LOCKING (12.9120) . . . . .                                                                                                                 |                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  |
|        | 2.7680            | HOUSING ASSY., GOVERNOR VARIABLE<br>SPEED SPRING                                                                                                               |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|        |                   | SEE ASSEMBLY BREAKDOWN AS<br>INDICATED BELOW.                                                                                                                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|        | 5139262           | HOUSING ASSY., 3-53 (PAGE F1) . . . . .                                                                                                                        | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|        | 5126841           | HOUSING ASSY., 3,4-53 (PAGE E1) . . . . .<br>(5139262)                                                                                                         |                  |                  |                  | 1                |                  |                  |                  |                  |                  |                  |                  |
|        | 5139662           | HOUSING ASSY., 3,4-53 (PAGE F1) . . . . .                                                                                                                      |                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  |                  |
|        | 5127654           | HOUSING ASSY., 3-53 (PAGE E1) . . . . .<br>(5139262)                                                                                                           |                  |                  | 1                |                  |                  |                  |                  |                  |                  |                  |                  |
| 186270 | 5144096           | HOUSING ASSY., 3-53 (PAGE F1) . . . . .                                                                                                                        |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |
|        | <del>455520</del> | BOLT, 5/16"-18X3 1/2" (12.9001) . . . . .                                                                                                                      | 2                |                  | 2                | 2                |                  |                  | 2                |                  |                  | 2                |                  |
|        | 103320            | LOCKWASHER, 5/16" (12.9200) . . . . .                                                                                                                          | 2                |                  |                  | 2                |                  |                  | 2                |                  |                  | 2                |                  |
|        |                   | * NOT SERVICED, COMPONENTS ARE<br>AVAILABLE FOR COMPLETE REPLACEMENT<br>USE ASSEMBLY SHOWN IN PARENTHESES<br>WHICH INCORPORATES A NEW WIDER<br>ROLLER BEARING. |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|        | 5155596           | WASHER, 5/16" FLAT COPPER (12.9190) . . . . .                                                                                                                  |                  |                  | 2                |                  |                  |                  |                  |                  |                  |                  |                  |
|        | 2.7700            | GASKET, GOVERNOR VARIABLE SPEED<br>SPRING HOUSING                                                                                                              |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 5F     | 5152944           | GASKET, 3,4-53 (2.7650) . . . . .                                                                                                                              | 1                |                  | 1                | 1                |                  |                  | 1                |                  |                  | 1                |                  |
|        | 2.7760            | SPRING, GOVERNOR VARIABLE SPEED                                                                                                                                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 5F     | 5127397           | SPRING, 3-53 (TWO LIGHT BLUE<br>STRIPES)                                                                                                                       | 1                |                  | 1                | 1                |                  |                  | 1                |                  |                  | 1                |                  |

## 2.7000A MECHANICAL GOVERNOR

| PART |         | TYPES                                                  |    |   |   |    |   |    |   |    |   |
|------|---------|--------------------------------------------------------|----|---|---|----|---|----|---|----|---|
| FIG  | NUMBER  | NAME AND DESCRIPTION                                   | 1  | 1 | 1 | 1  | 1 | 1  | 1 | 1  | 1 |
|      |         |                                                        | 0  | 0 | 1 | 1  | 1 | 1  | 1 | 1  | 1 |
|      |         |                                                        | 8  | 8 | 2 | 4  | 5 | 5  | 5 | 6  | 2 |
|      |         |                                                        | 0  | 5 | 2 | 4  | 3 | 4  | 5 | 8  | 4 |
|      |         |                                                        |    |   |   |    |   |    |   |    |   |
|      |         | 2.7770 - PLUNGER, GOVERNOR VARIABLE SPEED SPRING       |    |   |   |    |   |    |   |    |   |
|      | 5162661 | PLUNGER                                                | 1  |   | 1 | 1  |   | 1  |   | 1  |   |
|      |         | 2.7780 - GUIDE, GOVERNOR VARIABLE SPEED SPRING PLUNGER |    |   |   |    |   |    |   |    |   |
| 5F   | 5130093 | GUIDE                                                  | 1  |   | 1 | 1  |   | 1  |   | 1  |   |
|      | 5130094 | BUSHING (PLASTIC)                                      | 1  |   | 1 | 1  |   | 1  |   | 1  |   |
|      |         | 2.7790 - RETAINER, GOVERNOR VARIABLE SPEED SPRING      |    |   |   |    |   |    |   |    |   |
| 5F   | 5137276 | RETAINER                                               | 1  |   | 1 | 1  |   | 1  |   | 1  |   |
|      |         | 2.7795 - STOP, GOVERNOR VARIABLE SPEED SPRING RETAINER |    |   |   |    |   |    |   |    |   |
| 5F   | 5171784 | STOP, 3,4-53 (WITH STEP)                               | 1  |   | 1 | 1  |   | 1  |   | 1  |   |
| 5F   | 5174430 | STOP, 3,4-53 (WITH GAP)                                | 1  |   | 1 | 1  |   | 1  |   | 1  |   |
|      |         | 2.7800 - SHIM, GOVERNOR VARIABLE SPEED SPRING          |    |   |   |    |   |    |   |    |   |
| 5F   | 5136590 | SHIM (.010")                                           | AR |   | 6 | AR |   | AR |   | AR |   |
| 5F   | 5136591 | SHIM (.078")                                           | AR |   | 3 | AR |   | AR |   | AR |   |
|      |         | 2.7810 - SCREW ASSY., GOVERNOR BUFFER                  |    |   |   |    |   |    |   |    |   |
| 5D   | 5139678 | SCREW ASSY., 3-53 (INCLUDES SPRING) (HEX. HD.)         |    |   |   | 1  |   |    |   |    |   |
|      | 5183773 | SCREW ASSY., 3,4-53 (INCLUDES SPRING)                  | 1  |   | 1 |    |   | 1  |   | 1  |   |
| 5D   | 5177083 | SCREW ASSY., 3,4-53 (INCLUDES SPRING)                  |    |   | X | 1  |   |    |   | 1  |   |
| 5M   | 5132757 | SCREW ASSY., 8V53 (INCLUDES SPRING)                    |    |   |   |    |   | 1  |   |    | 1 |
|      | 5172383 | SCREW ASSY., 6V53 (INCLUDES SPRING)                    |    |   |   |    |   |    | 1 |    |   |
|      | 5174286 | NUT, 3/8"-24 (12.9140)                                 | 1  |   | 1 |    |   | 1  | 1 | 1  | 1 |
|      | 122236  | NUT, 3/8"-24 HEX. (12.9120)                            |    |   | X | 1  | 1 |    |   |    |   |
|      |         | 2.7819 - ROD ASSY., GOVERNOR TO INJECTOR               |    |   |   |    |   |    |   |    |   |
| 7A   | 5122797 | LINK, 3-53                                             |    |   | 1 |    |   |    |   | 1  |   |
|      | 5121472 | LINK, 8V53 (LOWER)                                     |    |   |   |    |   | 2  |   |    | 2 |
|      | 5121472 | LINK, 6V53 (LOWER)                                     |    |   |   |    |   |    | 2 |    |   |

## 2.7000A MECHANICAL GOVERNOR

| PART   |                   | TYPES                                                                   |   |   |   |   |   |   |   |   |   |   |   |
|--------|-------------------|-------------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|
| ..FIG  | NUMBER            | NAME AND DESCRIPTION                                                    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|        |                   |                                                                         | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|        |                   |                                                                         | 8 | 8 | 2 | 4 | 5 | 5 | 5 | 5 | 6 | 2 | 2 |
|        |                   |                                                                         | 0 | 5 | 2 | 4 | 3 | 4 | 5 | 7 | 8 | 2 | 4 |
|        |                   | <b>2.7819 - ROD ASSY., GOVERNOR TO INJECTOR (CONT'D)</b>                |   |   |   |   |   |   |   |   |   |   |   |
|        | 5121453           | LINK, 6V53 (LEFT BANK UPPER)                                            |   |   |   |   |   |   |   |   | 1 |   |   |
|        | 5121452           | LINK, 6V53 (RIGHT BANK UPPER)                                           |   |   |   |   |   |   |   |   | 1 |   |   |
| 7A     | 5122798           | LINK, 3,4-53                                                            | 1 | 1 |   | 1 | 1 | 1 | 1 |   |   |   |   |
|        | 5132784           | LINK, 8V53 (LEFT BANK UPPER)                                            |   |   |   |   |   |   |   | 1 |   | 1 |   |
|        | 5132785           | LINK, 8V53 (RIGHT BANK UPPER)                                           |   |   |   |   |   |   |   | 1 |   | 1 |   |
| 7A     | 5147345           | PIN (LINK TO INJECTOR CONTROL TUBE LEVER)                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 |
| 7A     | 103361            | PIN, 1/16"X1/2" COTTER (12.9250)                                        | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 |
|        | 142583            | RETAINER, SPRING 13/64" (12.9460)                                       | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |   | 1 |   |
|        | 5150941           | WASHER (2.7310)                                                         | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |   |   |   |
|        | 454750            | NUT, 1/4"-28 ELASTIC STOP (UPPER TO LOWER LINK) (12.9120)               |   |   |   |   |   |   |   | 2 | 2 |   | 2 |
|        |                   | <b>2.7830 - ADAPTOR, CYLINDER HEAD GOVERNOR CONTROL LINK</b>            |   |   |   |   |   |   |   |   |   |   |   |
| 4A     | 5116282           | ADAPTOR (IN HEAD) (PLAIN END)                                           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 |
|        |                   | <b>2.7834 - BOOT, GOVERNOR TO INJECTOR LINK</b>                         |   |   |   |   |   |   |   |   |   |   |   |
|        | 5129707           | HOSE, 3-53 (7/8 I.D.X1.26 L.) (A & C ENG.)                              |   |   | 1 |   |   |   |   |   |   | 1 |   |
|        | 5132843           | HOSE, 8V53 (7/8 I.D.X.50 L.) (A ENG.)                                   |   |   |   |   |   |   |   | 2 |   |   | 2 |
|        | 5129706           | HOSE, 6V53 (7/8 I.D.X1.62 L.) (RIGHT BANK)                              |   |   |   |   |   |   |   |   | 1 |   |   |
|        | 5129705           | HOSE, 3,4-53 (7/8 I.D.X.75 L.) (LEFT BANK)                              | 1 | 1 |   | 1 | 1 | 1 | 1 |   | 2 |   |   |
|        | 5126072           | HOUSING, LINK 6V53 (LEFT BANK)                                          |   |   |   |   |   |   |   |   | 1 |   |   |
|        | 272855            | CLAMP, HOSE (SPRING 1 1/4")                                             |   |   | 2 |   |   |   |   |   |   | 2 |   |
|        | 111609            | CLAMP, HOSE (SCREW BANK) (12.9660)                                      | 1 | 1 |   | 1 | 1 | 1 | 1 | 2 | 4 |   | 2 |
|        |                   | <b>2.7890 - TUBE ASSY., GOVERNOR LUBRICATION</b>                        |   |   |   |   |   |   |   |   |   |   |   |
| 5D     | 5144093           | * TUBE ASSY., 3-53 (DEV. L. 7.32 ) (TEE TO CONTROL HOUSING)(C & D ENG.) | 1 | 1 | 1 |   |   |   |   |   |   |   |   |
|        | 5129726           | @ TUBE ASSY., 3,4-53 (DEV. L. 11.36 )                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |   | 1 |   |
| 5D     | 5143990           | * TEE, 1/4"-1/4" TUBE X 1/8" PIPE (IN WEIGHT HOUSING)                   | 1 | 1 | 1 |   |   |   |   |   |   |   |   |
| 5D     | 5166265           | * ELBOW, 1/4" TUBE X 1/8" PIPE, 90 DEG. (7.4074)                        |   | 1 | 1 | 1 | 1 | 1 | 1 |   |   | 1 |   |
|        | 5145009           | # PLUG, 1/4" PIPE (12.9550)                                             | 1 | 1 |   |   |   |   |   |   |   |   |   |
| 442321 | <del>137405</del> | @ CONNECTOR, 1/4" TUBE X 1/8" PIPE (12.9460)                            | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |   | 1 |   |
|        |                   | * PART OF GOVERNOR ASSY. USED TO                                        |   |   |   |   |   |   |   |   |   |   |   |
|        |                   | <b>\$ OBSOLETE.</b>                                                     |   |   |   |   |   |   |   |   |   |   |   |

## 2.7000A MECHANICAL GOVERNOR

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## 2.7000A MECHANICAL GOVERNOR

| PART                                                        |                                                | COLUMN |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------------------------------------------|------------------------------------------------|--------|---|---|---|---|---|---|---|---|---|---|---|---|
| G . . . . . NUMBER . . . . . NAME AND DESCRIPTION . . . . . |                                                | A      | B | C | D | E | F | G | H | I | J | K | L | M |
| <b>2.7045 - COVER ASSY., GOVERNOR (COMPLETE)</b>            |                                                |        |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | <b>5122721</b>                                 |        |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | COVER ASSY., 2.3,4-53 (C AND D ENG.) . . . . . | 1      |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | VARIABLE SPEED)                                |        |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | <b>5122722</b>                                 |        | 1 |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | COVER ASSY., 2.3,4-53 (A AND B ENG.) . . . . . |        |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | VARIABLE SPEED)                                |        |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | <b>5122723</b>                                 |        |   | 1 |   |   |   |   |   |   |   |   |   |   |
|                                                             | COVER ASSY., 2.3,4-53 (C AND D ENG.) . . . . . |        |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | LIMITING SPEED)                                |        |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | <b>5122724</b>                                 |        |   |   | 1 |   |   |   |   |   |   |   |   |   |
|                                                             | COVER ASSY., 2.3,4-53 (A AND B ENG.) . . . . . |        |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | LIMITING SPEED)                                |        |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | <b>5126428</b>                                 |        |   |   |   | 1 |   |   |   |   |   |   |   |   |
|                                                             | COVER ASSY., 2.3,4-53 (C AND D ENG.) . . . . . |        |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | LIMITING SPEED)                                |        |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | <b>5126429</b>                                 |        |   |   |   |   | 1 |   |   |   |   |   |   |   |
|                                                             | COVER ASSY., 2.3,4-53 (A AND B ENG.) . . . . . |        |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | LIMITING SPEED)                                |        |   |   |   |   |   |   |   |   |   |   |   |   |
| 5E                                                          | <b>5126432</b>                                 |        |   |   |   |   |   | 1 |   |   |   |   |   |   |
|                                                             | COVER ASSY., 2.3,4-53 (C AND D ENG.) . . . . . |        |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | VARIABLE SPEED)                                |        |   |   |   |   |   |   |   |   |   |   |   |   |
| 5E                                                          | <b>5126433</b>                                 |        |   |   |   |   |   |   | 1 |   |   |   |   |   |
|                                                             | COVER ASSY., 2.3,4-53 (A AND B ENG.) . . . . . |        |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | VARIABLE SPEED)                                |        |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | <b>5126641</b>                                 |        |   |   |   |   |   |   |   | 1 |   |   |   |   |
|                                                             | COVER ASSY., 6V53 (VARIABLE) . . . . .         |        |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | <b>5126648</b>                                 |        |   |   |   |   |   |   |   |   | 1 |   |   |   |
|                                                             | COVER ASSY., 6V53 (LIMITING) . . . . .         |        |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>2.7050 - COVER ASSY., GOV. (LESS SHAFT AND LEVER)</b>    |                                                |        |   |   |   |   |   |   |   |   |   |   |   |   |
| INCLUDES ITEMS IN 2.7050, 2.7093 AND 2.7100.                |                                                |        |   |   |   |   |   |   |   |   |   |   |   |   |
| 5E                                                          | <b>5122726</b> *                               | 1      |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | COVER ASSY., 2.3,4-53 (C AND D ENG.) . . . . . |        |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | (VARIABLE) (5126432)                           |        |   |   |   |   |   |   |   |   |   |   |   |   |
| 5E                                                          | <b>5122727</b> *                               |        | 1 |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | COVER ASSY., 2.3,4-53 (A AND B ENG.) . . . . . |        |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | (VARIABLE) (5126433)                           |        |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | <b>5122728</b> @                               |        |   | 1 |   |   |   |   |   |   |   |   |   |   |
|                                                             | COVER ASSY., 2.3,4-53 (C AND D ENG.) . . . . . |        |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | LIMITING SPEED) (5126428)                      |        |   |   |   |   |   |   |   |   |   |   |   |   |
| 5E                                                          | <b>5122729</b> @                               |        |   |   | 1 |   |   |   |   |   |   |   |   |   |
|                                                             | COVER ASSY., 2.3,4-53 (A AND B ENG.) . . . . . |        |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | LIMITING SPEED) (5126429)                      |        |   |   |   |   |   |   |   |   |   |   |   |   |
| 5H                                                          | <b>5126397</b>                                 |        |   |   |   | 1 |   |   |   |   |   |   |   |   |
|                                                             | COVER ASSY., 2.3,4-53 (C AND D ENG.) . . . . . |        |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | LIMITING SPEED)                                |        |   |   |   |   |   |   |   |   |   |   |   |   |
| 5H                                                          | <b>5126398</b>                                 |        |   |   |   |   | 1 |   |   |   |   |   |   |   |
|                                                             | COVER ASSY., 2.3,4-53 (A AND B ENG.) . . . . . |        |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | LIMITING SPEED)                                |        |   |   |   |   |   |   |   |   |   |   |   |   |
| 5E                                                          | <b>5126430</b>                                 |        |   |   |   |   |   | 1 |   |   |   |   |   |   |
|                                                             | COVER ASSY., 2.3,4-53 (C AND D ENG.) . . . . . |        |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | VARIABLE SPEED)                                |        |   |   |   |   |   |   |   |   |   |   |   |   |
| 5E                                                          | <b>5126431</b>                                 |        |   |   |   |   |   |   | 1 |   |   |   |   |   |
|                                                             | COVER ASSY., 2.3,4-53 (A AND B ENG.) . . . . . |        |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | VARIABLE SPEED)                                |        |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | <b>5126645</b>                                 |        |   |   |   |   |   |   |   | 1 |   |   |   |   |
|                                                             | COVER ASSY., 6V53 (VARIABLE) . . . . .         |        |   |   |   |   |   |   |   |   |   |   |   |   |
| 5J                                                          | <b>5126644</b> #                               |        |   |   |   |   |   |   |   |   | 1 |   |   |   |
|                                                             | COVER ASSY., 6V53 (LIMITING) . . . . .         |        |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | <b>5122737</b>                                 | 1      | 1 | 1 | 1 |   |   |   |   |   |   |   |   |   |
|                                                             | PIN (3/16"X.92") . . . . .                     |        |   |   |   |   |   |   |   |   |   |   |   |   |
|                                                             | <b>455180</b>                                  |        |   |   |   |   |   |   |   | 2 |   |   |   |   |
|                                                             | PIN, 3/16"X1/2" (12.9275) . . . . .            |        |   |   |   |   |   |   |   |   |   |   |   |   |
| 5E                                                          | <b>456540</b>                                  | 2      | 2 | 2 | 2 | 2 | 2 | 2 | 2 |   |   |   |   |   |
|                                                             | PIN, 3/16"X5/8" ROLL (12.9275) . . . . .       |        |   |   |   |   |   |   |   |   |   |   |   |   |
| <del>NOT SERVICED, USE PART NUMBER</del>                    |                                                |        |   |   |   |   |   |   |   |   |   |   |   |   |
| <del>SHOWN IN PARENTHESES PLUS (+)</del>                    |                                                |        |   |   |   |   |   |   |   |   |   |   |   |   |

## 2.7000A MECHANICAL GOVERNOR

| PART |         | TYPES                                                     |   |   |   |   |   |  |  |  |  |
|------|---------|-----------------------------------------------------------|---|---|---|---|---|--|--|--|--|
| FIG  | NUMBER  | NAME AND DESCRIPTION                                      | 1 | 3 | 3 | 6 | 5 |  |  |  |  |
|      |         |                                                           | 1 | 1 |   |   |   |  |  |  |  |
|      |         |                                                           | 3 | 3 |   |   |   |  |  |  |  |
|      |         |                                                           | 3 | 6 |   |   |   |  |  |  |  |
|      |         |                                                           | 5 | 1 |   |   |   |  |  |  |  |
|      | 2.7819  | ROD ASSY., GOVERNOR TO INJECTOR (CONT'D)                  |   |   |   |   |   |  |  |  |  |
|      | 142583  | RETAINER, SPRING 13/64" (12.9640)                         |   | 1 |   |   |   |  |  |  |  |
|      | 5147345 | PIN (LINK TO INJECTOR CONTROL TUBE LEVER)                 | 2 | 1 |   |   |   |  |  |  |  |
|      | 103361  | PIN, 1/16"X1/2" COTTER (12.9250)                          | 2 | 1 |   |   |   |  |  |  |  |
|      | 5150941 | WASHER, (2.7310)                                          |   | 1 |   |   |   |  |  |  |  |
|      | 454750  | NUT, 1/4"-28 ELASTIC STOP (UPPER TO LOWER LINK) (12.9120) | 2 |   |   |   |   |  |  |  |  |
|      | 2.7830  | ADAPTOR, CYLINDER HEAD GOVERNOR CONTROL LINK              |   |   |   |   |   |  |  |  |  |
|      | 5116262 | ADAPTOR (IN HEAD) (PLAIN END)                             | 2 | 1 |   |   |   |  |  |  |  |
|      | 2.7834  | BOOT, GOVERNOR TO INJECTOR LINK                           |   |   |   |   |   |  |  |  |  |
|      | 5129706 | HOSE (7/8" I.D. X 1.62" L.) (RIGHT BANK)                  | 1 |   |   |   |   |  |  |  |  |
|      | 5129705 | HOSE (7/8" I.D. X .75" L.) (LEFT BANK)                    | 2 | 1 |   |   |   |  |  |  |  |
|      | 5126072 | HOUSING, LINK (LEFT BANK)                                 | 1 |   |   |   |   |  |  |  |  |
|      | 111609  | CLAMP, HOSE (SCREW BANK) (12.9660)                        | 4 | 1 |   |   |   |  |  |  |  |
|      | 2.7890  | TUBE ASSY., GOVERNOR LUBRICATION                          |   |   |   |   |   |  |  |  |  |
|      | 5129726 | TUBE ASSY., (DEV. L. 11.35") (WEIGHT HOUSING)             |   | 1 |   |   |   |  |  |  |  |
| 5D   | 5166265 | ELBOW, 1/4" TUBE X 1/8" PIPE 90 DEG. (7.4074)             |   | 1 |   |   |   |  |  |  |  |
|      | 137405  | CONNECTOR, 1/4" TUBE X 1/8" PIPE (12.9460)                |   | 1 |   |   |   |  |  |  |  |
|      | 2.7945  | SEAL, GOVERNOR                                            |   |   |   |   |   |  |  |  |  |
|      | 596330  | SEAL                                                      |   | 1 |   |   |   |  |  |  |  |
|      | 2.7960  | GEAR, GOVERNOR DRIVE                                      |   |   |   |   |   |  |  |  |  |
| 5B   | 5116025 | GEAR (R.H. HELIX) (RA, RB, LC, LD)                        |   | 1 |   |   |   |  |  |  |  |
|      | 124546  | KEY, 5/32" X 5/8" WOODRUFF (12.9350)                      |   | 1 |   |   |   |  |  |  |  |
|      | 9434777 | NUT, 5/8"-18 LOCK (12.9140)                               |   | 1 |   |   |   |  |  |  |  |

## 2.7000A MECHANICAL GOVERNOR

[illegible]

## 2.7000A MECHANICAL GOVERNOR

| PART |         |                                                           | COLUMN |   |   |   |   |   |   |   |    |    |   |   |   |   |
|------|---------|-----------------------------------------------------------|--------|---|---|---|---|---|---|---|----|----|---|---|---|---|
| FIG  | NUMBER  | NAME AND DESCRIPTION                                      | A      | B | C | D | E | F | G | H | I  | J  | K | L | M | N |
|      |         | <b>2.7130 - PIN, GOVERNOR FULCRUM LEVER</b>               |        |   |   |   |   |   |   |   |    |    |   |   |   |   |
|      | 113500  | PIN, 6V53 (12.9280) .....                                 |        |   |   |   |   |   |   |   | 1  |    |   |   |   |   |
|      |         | <b>2.7140 - WASHER, GOVERNOR THROTTLE SHAFT (PACKING)</b> |        |   |   |   |   |   |   |   |    |    |   |   |   |   |
| 5E,H | 5179232 | SEAL RING, 2,3,4-53 (2.4225) .....                        | 1      | 1 | 1 | 1 | 1 | 1 | 1 | 1 |    |    |   |   |   |   |
| 5J   | 5176557 | SEAL RING, 6V53 .....                                     |        |   |   |   | 1 |   | 1 |   | 1  | 1  |   |   |   |   |
|      | 5144196 | WASHER, SEAL RING BACK-UP (2.7045) .....                  |        |   |   |   |   |   |   |   | AR | AR |   |   |   |   |
|      |         | <b>2.7145 - WASHER, GOVERNOR SHUTDOWN SHAFT (PACKING)</b> |        |   |   |   |   |   |   |   |    |    |   |   |   |   |
| 5H,J | 5101891 | SEAL RING (3.3055) .....                                  |        |   |   |   | 1 | 1 |   |   |    | 1  |   |   |   |   |
|      | 5197150 | WASHER, SEAL RING BACK-UP .....                           |        |   |   |   |   |   |   |   |    | AR |   |   |   |   |
|      |         | <b>2.7150 - RETAINER, GOVERNOR THROTTLE SHAFT PACKING</b> |        |   |   |   |   |   |   |   |    |    |   |   |   |   |
| 5E,H | 5150238 | WASHER (3.4001) .....                                     | 1      | 1 | 1 | 1 | 1 |   | 1 | 1 |    |    |   |   |   |   |
| 5J,H | 5153080 | WASHER .....                                              |        |   |   |   |   | 2 |   |   | 2  | 2  |   |   |   |   |
| 5E,H | 5122732 | RING, SNAP .....                                          | 1      | 1 | 1 | 1 | 1 | 1 | 1 | 1 |    |    |   |   |   |   |
| 5J   | 5174429 | RING, RETAINING .....                                     |        |   |   |   |   |   |   |   | 1  | 1  |   |   |   |   |
|      |         | <b>2.7155 - RETAINER, GOVERNOR SHUTDOWN SHAFT PACKING</b> |        |   |   |   |   |   |   |   |    |    |   |   |   |   |
| 5H,J | 5151487 | WASHER (2.7430) .....                                     |        |   |   |   | 1 | 2 |   |   |    | 2  |   |   |   |   |
|      | 5144178 | WASHER (DISHED) .....                                     |        |   |   |   | 1 |   |   |   |    |    |   |   |   |   |
| 5H,J | 5178581 | RING, SNAP (2.7430) .....                                 |        |   |   |   | 1 | 1 |   |   |    | 1  |   |   |   |   |

## PART

| FIG | NUMBER | NAME AND DESCRIPTION |
|-----|--------|----------------------|
| 1   | 1      | 1                    |
| 2   | 2      | 2                    |
| 3   | 3      | 3                    |
| 4   | 4      | 4                    |
| 5   | 5      | 5                    |
| 6   | 6      | 6                    |
| 7   | 7      | 7                    |
| 8   | 8      | 8                    |
| 9   | 9      | 9                    |
| 10  | 10     | 10                   |
| 11  | 11     | 11                   |
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| 44  | 44     | 44                   |
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| 51  | 51     | 51                   |
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| 57  | 57     | 57                   |
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| 59  | 59     | 59                   |
| 60  | 60     | 60                   |
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| 62  | 62     | 62                   |
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| 64  | 64     | 64                   |
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| 67  | 67     | 67                   |
| 68  | 68     | 68                   |
| 69  | 69     | 69                   |
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| 74  | 74     | 74                   |
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| 81  | 81     | 81                   |
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| 83  | 83     | 83                   |
| 84  | 84     | 84                   |
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| 88  | 88     | 88                   |
| 89  | 89     | 89                   |
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| 93  | 93     | 93                   |
| 94  | 94     | 94                   |
| 95  | 95     | 95                   |
| 96  | 96     | 96                   |
| 97  | 97     | 97                   |
| 98  | 98     | 98                   |
| 99  | 99     | 99                   |
| 100 | 100    | 100                  |

|         |                              |
|---------|------------------------------|
| 5100061 | SHAFT AND CARRIER ASSY. .... |
| 5122782 | SHAFT AND CARRIER ASSY. .... |
| 5122787 | SHAFT AND CARRIER ASSY. .... |
| 5122788 | SHAFT AND CARRIER ASSY. .... |
| 5122882 | SHAFT AND CARRIER ASSY. .... |
| 5122883 | SHAFT AND CARRIER ASSY. .... |
| 5133819 | SHAFT AND CARRIER ASSY. .... |
| 5125042 | SHAFT AND CARRIER ASSY. .... |
| 5125043 | SHAFT AND CARRIER ASSY. .... |
| 5133590 | SHAFT AND CARRIER ASSY. .... |

5D 5196615 @ SHAFT ASSY. (INCLUDES SHAFT AND CARRIER)  
5J 5121337 SHAFT  
5L 5196856 # SHAFT ASSY. (INCLUDES SHAFT AND CARRIER) (VARIABLE SPEED)  
5L 5196855 # SHAFT ASSY. (INCLUDES SHAFT AND CARRIER) (LIMITING SPEED)  
5M 5133591 SHAFT ASSY. (INCLUDES SHAFT AND CARRIER) (LIMITING SPEED)  
~~@ NOT SERVICED, USE 5106055 FOR LIMITING SPEED GOVERNOR, 5130050 FOR VARIABLE AND CONSTANT SPEED GOVERNORS.~~  
# REQUIRES FORCED LUBRICATION OF GOVERNOR WEIGHT HOUSING.

## 5J 5133707 CARRIER.....

5D 5122784 & RISER (INCLUDES THRUST BEARING).....  
5J 5125367 RISER (INCLUDES THRUST BEARING).....  
5L 5109544 # RISER (INCLUDES THRUST BEARING).....  
(SMALL FLANGE)  
~~3 NOT SERVICED, USE 5109544~~  
# REQUIRES FORCED LUBRICATION OF  
GOVERNOR WEIGHT HOUSING.

|      |         |                           |
|------|---------|---------------------------|
|      | 5122770 | WEIGHT (HIGH SPEED) ..... |
| 5L   | 5122776 | WEIGHT (LOW SPEED) .....  |
| 5L,D | 5122772 | WEIGHT .....              |

PAGE C 1 OF 2.7000A

## 2.7000A MECHANICAL GOVERNOR

|        |                |                                                        | COLUMN |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------|----------------|--------------------------------------------------------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FIG    | PART<br>NUMBER | NAME AND DESCRIPTION                                   | A      | B | C | D | E | F | G | H | I | J | K | L | M | N |
|        | 2.7155         | RETAINER, GOVERNOR SHUTDOWN SHAFT<br>PACKING           |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 5H,J,M | 5144178        | RING, RETAINER (2.7430)                                | 1      | 1 | 1 | 1 |   | 1 |   |   |   |   |   |   |   |   |
| 5H,J,M | 5178581        | RING, RETAINER (2.7430)                                | 1      | 1 | 1 | 1 |   | 1 |   |   |   |   |   |   |   |   |
| 5H,J,M | 5151487        | WASHER (2.7430)                                        | 1      | 1 | 1 | 1 |   | 1 |   |   |   |   |   |   |   |   |
|        | 2.7170         | LEVER, GOVERNOR COVER THROTTLE SHAFT                   |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
|        | 5119662        | LEVER (LOWER, MANUAL THROTTLE)                         | 1      |   |   |   |   | 1 |   |   |   |   |   |   |   |   |
|        | 5119664        | LEVER, 2,3, 4-53 UPPER, OUTPUT SHAFT<br>GOVERNOR LEVER | 1      |   |   |   |   |   |   |   |   |   |   |   |   |   |
|        | 5119663        | LEVER, 6V53                                            |        |   |   |   |   | 1 |   |   |   |   |   |   |   |   |
|        | 5132350        | SPRING (BETWEEN UPPER AND MIDDLE<br>LEVERS)            | 1      |   |   |   |   |   |   |   |   |   |   |   |   |   |
|        | 5132351        | SPRING                                                 |        |   |   |   |   | 1 |   |   |   |   |   |   |   |   |
|        | 274415         | RING, RETAINER (LOWER LEVER)                           | 1      |   |   |   |   |   |   |   |   |   |   |   |   |   |
|        | 5119673        | WASHER (ON LOWER LEVER) (2.7140)                       | 1      |   |   |   |   |   |   |   |   |   |   |   |   |   |

## 2.7000A MECHANICAL GOVERNOR

|      |             | COLUMN                                                                                                                         |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------|-------------|--------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FIG  | PART NUMBER | NAME AND DESCRIPTION                                                                                                           | A | B | C | D | E | F | G | H | I | J | K | L | M |
|      |             |                                                                                                                                |   |   |   |   |   |   |   |   |   |   |   |   |   |
|      |             | <b>2.7650 - SHAFT &amp; CARRIER ASSY., GOVERNOR WEIGHT</b>                                                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |
|      | 5133832     | SHAFT & CARRIER ASSY., 6V53                                                                                                    | 1 |   |   |   |   |   |   |   |   |   |   |   |   |
|      | 5134663     | SHAFT & CARRIER ASSY., 8V53                                                                                                    |   | 1 |   |   |   |   |   |   |   |   |   |   |   |
|      | 5135002     | SHAFT & CARRIER ASSY., 2-53                                                                                                    |   |   | 1 |   |   |   |   |   |   |   |   |   |   |
|      | 5143287     | SHAFT & CARRIER ASSY., 2-53                                                                                                    |   |   |   | 1 |   |   |   |   |   |   |   |   |   |
|      | 5144103     | SHAFT & CARRIER ASSY., 3-53                                                                                                    |   |   |   |   | 1 |   |   |   |   |   |   |   |   |
|      | 5144315     | SHAFT & CARRIER ASSY., 8V53                                                                                                    |   |   |   |   |   | 1 |   |   |   |   |   |   |   |
|      |             | <b>2.7360 - SHAFT, GOVERNOR WEIGHT CARRIER</b>                                                                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 5J   | 5121337     | SHAFT, 6V53                                                                                                                    | 1 |   |   |   |   |   |   |   |   |   |   |   |   |
|      | 5133591     | SHAFT ASSY., 8V53 (INCLUDES SHAFT AND CARRIER) (LIMITING)                                                                      |   | 1 |   |   |   | 1 |   |   |   |   |   |   |   |
| 5L   | 5196855     | SHAFT ASSY., 2-53 (INCLUDES SHAFT AND CARRIER) (LIMITING)                                                                      |   |   | 1 |   |   |   |   |   |   |   |   |   |   |
| 5D   | 5196856     | SHAFT ASSY., 2.3-53 (INCLUDES SHAFT AND CARRIER) (CONSTANT SPEED)<br>* REQUIRES FORCED LUBRICATION OF GOVERNOR WEIGHT HOUSING. |   |   |   | 1 | 1 |   |   |   |   |   |   |   |   |
|      |             | <b>2.7370 - CARRIER, GOVERNOR WEIGHT</b>                                                                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 5J   | 5134566     | CARRIER                                                                                                                        | 1 |   |   |   |   |   |   |   |   |   |   |   |   |
|      |             | <b>2.7380 - RISER, GOVERNOR</b>                                                                                                |   |   |   |   |   |   |   |   |   |   |   |   |   |
|      | 5134435     | RISER, 6V53 (INCLUDES THRUST BEARING)                                                                                          | 1 |   |   |   |   |   |   |   |   |   |   |   |   |
| 5D,L | 5109544     | RISER, 2.3-53 (INCLUDES THRUST BEARING) (SMALL FLANGE)<br>* REQUIRES FORCED LUBRICATION OF GOVERNOR WEIGHT HOUSING.            |   |   | 1 | 1 | 1 |   |   |   |   |   |   |   |   |
|      |             | <b>2.7390 - WEIGHT, GOVERNOR</b>                                                                                               |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 5J   | 5122775     | WEIGHT, 6V53                                                                                                                   | 4 |   |   |   |   |   |   |   |   |   |   |   |   |
|      | 5138736     | WEIGHT, 8V53 (VARIABLE SPEED)                                                                                                  |   | 2 |   |   |   |   |   |   |   |   |   |   |   |
| 5J   | 5122770     | WEIGHT, 2-53 (HIGH SPEED)                                                                                                      |   |   | 2 |   |   |   |   |   |   |   |   |   |   |
| 5D,J | 5143675 @   | WEIGHT, 2-53                                                                                                                   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |
| 5J   | 5144176     | WEIGHT, 3-53                                                                                                                   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |
|      | 5144314     | WEIGHT, 8V53 (LOW SPEED)                                                                                                       |   |   |   |   |   | 2 |   |   |   |   |   |   |   |
|      | 5144313     | WEIGHT, 8V53 (HIGH SPEED)                                                                                                      |   |   |   |   |   | 2 |   |   |   |   |   |   |   |
|      |             | @ NOT SERVICED: FOR REPLACEMENT USE 5144176 AND INCLUDE (1) 5124201 SPRING IN 2.7550.                                          |   |   |   |   |   |   |   |   |   |   |   |   |   |

## 2.7000A MECHANICAL GOVERNOR

| PART<br>..FIG .. NUMBER .. NAME AND DESCRIPTION ..                                                          |         |                              | COLUMN |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------------------------------------------------------------------------------------------|---------|------------------------------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                                                                                                             |         |                              | A      | B | C | D | E | F | G | H | I | J | K | L | M | N |
| <b>2.7390 - WEIGHT, GOVERNOR (CONT'D)</b>                                                                   |         |                              |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 5L,D                                                                                                        | 5122773 | WEIGHT .....                 |        |   | 2 |   |   |   |   | 2 |   |   |   |   |   |   |
| 5J                                                                                                          | 5122774 | WEIGHT .....                 |        |   |   | 2 |   |   |   |   |   |   |   |   |   |   |
| 5J                                                                                                          | 5122775 | WEIGHT .....                 |        |   |   |   | 2 |   |   |   |   |   |   |   |   |   |
| 5J                                                                                                          | 5122771 | WEIGHT (HIGH SPEED) .....    |        |   |   |   |   | 2 |   | 1 |   |   |   |   |   |   |
| 5J                                                                                                          | 5133662 | WEIGHT (LOW SPEED) .....     |        |   |   |   |   | 2 |   |   |   |   |   |   |   |   |
| 5L                                                                                                          | 5129721 | WEIGHT (HIGH SPEED) .....    |        |   |   |   |   |   |   |   | 2 |   |   |   |   |   |
| 5M                                                                                                          | 5133592 | WEIGHT (LOW SPEED) .....     |        |   |   |   |   |   |   |   |   | 2 |   |   |   |   |
| 5M                                                                                                          | 5133551 | WEIGHT (HIGH SPEED) .....    |        |   |   |   |   |   |   |   |   | 2 |   |   |   |   |
| <b>2.7430 - PIN, GOVERNOR WEIGHT</b>                                                                        |         |                              |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 4D                                                                                                          | 5122785 | PIN .....                    | 4      | 2 | 2 |   |   |   |   |   | 4 |   |   |   |   |   |
| 5J,M                                                                                                        | 5122786 | PIN .....                    |        |   |   | 2 | 2 | 4 |   |   |   | 4 |   |   |   |   |
| 5L                                                                                                          | 5125044 | PIN .....                    |        |   |   |   |   |   | 2 | 2 |   |   |   |   |   |   |
| 5L                                                                                                          | 5125339 | SPACER .....                 |        |   |   |   |   |   | 4 | 4 |   |   |   |   |   |   |
| 4D,5M                                                                                                       | 9411504 | RING, SNAP .....             | 4      | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 |   |   |   |   |
| <b>2.7470 - BEARING, GOVERNOR WEIGHT CARRIER SHAFT</b>                                                      |         |                              |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 5D,L                                                                                                        | 907045  | BEARING (N.D. 3202L1A) ..... | 1      | 1 | 1 |   |   |   | 1 | 1 | 1 |   |   |   |   |   |
| 5D,L                                                                                                        | 9411502 | RING, SNAP .....             | 1      | 1 | 1 |   |   |   | 1 | 1 | 1 |   |   |   |   |   |
| <b>2.7502 - SUPPORT, GOVERNOR WEIGHT SHAFT BEARING</b>                                                      |         |                              |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
| NOTE: REFER TO 3.4350 FOR BLOWER<br>DRIVE SUPPORT/GOVERNOR WEIGHT SHAFT<br>BEARING SUPPORT FOR 6V-53 UNITS. |         |                              |        |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 5D                                                                                                          | 5122783 | SUPPORT .....                | 1      | 1 | 1 |   |   |   | 1 | 1 | 1 |   |   |   |   |   |

## 2.9000 INJECTOR CONTROLS

| PART                                                                       |          |                                       | TYPES       |             |             |             |             |             |             |             |             |             |             |             |
|----------------------------------------------------------------------------|----------|---------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| ..FIG                                                                      | ..NUMBER | NAME AND DESCRIPTION                  | 1<br>1<br>0 | 1<br>2<br>0 | 1<br>2<br>1 | 1<br>2<br>2 | 1<br>2<br>9 | 1<br>3<br>6 | 1<br>6<br>0 | 1<br>6<br>3 | 1<br>6<br>8 | 1<br>7<br>0 | 1<br>8<br>2 | 1<br>9<br>2 |
| <b>2.9030 - BRACKET, CYLINDER THROTTLE DELAY<br/>ROCKER SHAFT (CONT'D)</b> |          |                                       |             |             |             |             |             |             |             |             |             |             |             |             |
| 7C                                                                         | 120375   | NUT, 1/4"-20 (12.9120)                |             |             |             |             |             |             |             |             |             |             | 2           |             |
| 7C                                                                         | 454750   | NUT, 1/4"-28 (12.9120)                |             |             |             |             |             |             |             |             |             |             | 1           |             |
| 7C                                                                         | 192482   | + NUT, #8-32 (ELASTIC STOP) (12.9120) |             |             |             |             |             |             |             |             |             |             | 1           |             |
| 7C                                                                         | 454749   | NUT, #10-32 (12.9120)                 |             |             |             |             |             |             |             |             |             |             | 1           |             |
| 7C                                                                         | 103319   | LOCK WASHER, 1/4" (12.9200)           |             |             |             |             |             |             |             |             |             |             | 2           |             |
| * NOT SERVICED, USE ALL PARTS<br>INDICATED (+).                            |          |                                       |             |             |             |             |             |             |             |             |             |             |             |             |

## . TYPES

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## 2.9000A THROTTLE CONTROLS

| FIG | PART<br>NUMBER | NAME AND DESCRIPTION                                                                   | TYPES       |             |             |             |             |             |             |             |             |             |             |             |
|-----|----------------|----------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|     |                |                                                                                        | 4<br>4<br>4 | 4<br>7<br>6 | 4<br>8<br>3 | 4<br>8<br>4 | 4<br>8<br>5 | 4<br>8<br>6 | 4<br>8<br>7 | 4<br>8<br>8 | 4<br>8<br>9 | 4<br>9<br>0 | 4<br>9<br>2 | 4<br>9<br>3 |
|     | 2.9105         | WASHER, THROTTLE CONTROL TUBE BRAKE                                                    |             |             |             |             |             |             |             |             |             |             |             |             |
|     | 5113377        | WASHER, 2,3,4-53                                                                       |             |             |             | 1           | 1           | 1           | 1           |             | 1           | 1           | 1           |             |
|     | 5113378        | PAD, 2,3,4-53                                                                          |             |             |             | 1           | 1           | 1           | 1           |             | 1           | 1           | 1           |             |
|     | 2.9133         | CONTROL ASSY., VERNIER THROTTLE<br>SEE ASSEMBLY BREAKDOWN PAGE A1.                     |             |             |             |             |             |             |             |             |             |             |             |             |
|     | 5173084        | CONTROL ASSY., 2,3,4-53                                                                |             |             |             |             |             |             |             | 1           |             |             |             |             |
|     | 2.9150         | BRACKET, THROTTLE CONTROL KNOB SHAFT<br>A BRACKET ASSY. INCLUDES BUSHING<br>IN 2.9160. |             |             |             |             |             |             |             |             |             |             |             |             |
|     | 5124829        | BRACKET ASSY., 2,3,4-53                                                                |             |             |             |             |             |             |             | 1           |             |             |             |             |
|     | 2.9160         | BUSHING, THROTTLE CONTROL SHAFT<br>BRACKET                                             |             |             |             |             |             |             |             |             |             |             |             |             |
|     | 3222765        | BUSHING, 2,3,4-53                                                                      |             |             |             |             |             |             |             | 1           |             |             |             |             |
|     | 2.9170         | PLATE, THROTTLE CONTROL INDICATOR                                                      |             |             |             |             |             |             |             |             |             |             |             |             |
|     | 3292274        | PLATE, 2,3,4-53                                                                        |             |             |             |             |             |             |             | 1           |             |             |             |             |
|     | 179796         | BOLT, 1/4"-20X7/8" (12.9001)                                                           |             |             |             |             |             |             |             | 3           |             |             |             |             |
|     | 103319         | LOCKWASHER, 1/4" (12.9200)                                                             |             |             |             |             |             |             |             | 3           |             |             |             |             |
|     | 123179         | NUT, 1/4"-20 HEX. (12.9120)                                                            |             |             |             |             |             |             |             | 3           |             |             |             |             |
|     | 2.9175         | SUPPORT, THROTTLE CONTROL BRACKET                                                      |             |             |             |             |             |             |             |             |             |             |             |             |
|     | 5124502        | SUPPORT, 2,3,4-53 (2.9370)                                                             |             |             |             |             |             |             |             | 1           |             |             |             |             |
|     | 5124628        | BRACKET, SUPPORT 2,3,4-53                                                              |             |             |             |             |             |             |             | 1           |             |             |             |             |
|     | 179835         | BOLT, 5/8"-16X5/8" (12.9001)                                                           |             |             |             |             |             |             |             | 1           |             |             |             |             |
|     | 103321         | LOCKWASHER, 3/8" (12.9200)                                                             |             |             |             |             |             |             |             | 1           |             |             |             |             |
|     | 102635         | NUT, 3/8"-16 HEX. (12.9120)                                                            |             |             |             |             |             |             |             | 1           |             |             |             |             |
|     | 2.9290         | LEVER, THROTTLE CONTROL ROD LOWER                                                      |             |             |             |             |             |             |             |             |             |             |             |             |
|     | 3222750        | LEVER, 2,3,4-53 (ON VERNIER CONTROL<br>SHAFT) (2.9390)                                 |             |             |             |             |             |             |             | 1           |             |             |             |             |
|     | 106276         | BOLT, 1/4"-28X1 1/8" (12.9001)                                                         |             |             |             |             |             |             |             | 1           |             |             |             |             |
|     | 103319         | LOCKWASHER, 1/4" (12.9200)                                                             |             |             |             |             |             |             |             | 1           |             |             |             |             |
|     | 121902         | NUT, 1/4"-28 HEX. (12.9120)                                                            |             |             |             |             |             |             |             | 1           |             |             |             |             |

## 2.9000 INJECTOR CONTROLS

| PART |         | NAME AND DESCRIPTION                                          | TYPES |   |   |   |  |  |  |  |  |  |  |  |  |  |
|------|---------|---------------------------------------------------------------|-------|---|---|---|--|--|--|--|--|--|--|--|--|--|
| FIG  | NUMBER  |                                                               | 1     | 2 | 3 | 4 |  |  |  |  |  |  |  |  |  |  |
|      |         | <b>2.9012 - SPRING, INJECTOR CONTROL TUBE (CONT'D)</b>        |       |   |   |   |  |  |  |  |  |  |  |  |  |  |
| 7A   | 5116265 | SPRING, 3,4-53                                                |       | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |
|      |         | <b>2.9014 - LEVER, INJECTOR CONTROL TUBE RACK</b>             |       |   |   |   |  |  |  |  |  |  |  |  |  |  |
| 7C   | 5115322 | LEVER                                                         | 8     | 3 | 4 | 4 |  |  |  |  |  |  |  |  |  |  |
| 7C   | 5176228 | SCREW                                                         | 16    | 6 | 8 | 4 |  |  |  |  |  |  |  |  |  |  |
|      | 5101392 | SCREW, 1/4"-28X.90                                            |       |   |   |   |  |  |  |  |  |  |  |  |  |  |
|      |         | <b>2.9030 - BRACKET, CYLINDER THROTTLE DELAY ROCKER SHAFT</b> |       |   |   |   |  |  |  |  |  |  |  |  |  |  |
| 7C   | 5145826 | BRACKET, 8V53                                                 | 1     |   |   |   |  |  |  |  |  |  |  |  |  |  |
| 7C   | 5145828 | PISTON, 8V53                                                  | 1     |   |   |   |  |  |  |  |  |  |  |  |  |  |
| 7C   | 5145827 | LINK, 8V53                                                    | 1     |   |   |   |  |  |  |  |  |  |  |  |  |  |
| 7C   | 5102155 | VALVE, CHECK 8V53 (2.9862)                                    | 1     |   |   |   |  |  |  |  |  |  |  |  |  |  |
| 7C   | 5189789 | PLUG (OIL SUPPLY) (2.9862)                                    | 1     |   |   |   |  |  |  |  |  |  |  |  |  |  |
| 7C   | 5146233 | JOINT, 1/4" BALL                                              | 1     |   |   |   |  |  |  |  |  |  |  |  |  |  |
| 7C   | 5101402 | LEVER ASSY., 8V53                                             | 1     |   |   |   |  |  |  |  |  |  |  |  |  |  |
| 7C   | 5146039 | BUSHING (THROTTLE DELAY LEVER)                                | 2     |   |   |   |  |  |  |  |  |  |  |  |  |  |
| 7C   | 5148521 | SPACER, 1/4"X1.20" L                                          | 1     |   |   |   |  |  |  |  |  |  |  |  |  |  |
| 7C   | 221477  | + SCREW, #8-32X1 1/8" (12.9025)                               | 1     |   |   |   |  |  |  |  |  |  |  |  |  |  |
| 7C   | 108762  | + SCREW, #8-32X2 1/2" (12.9025)                               | 1     |   |   |   |  |  |  |  |  |  |  |  |  |  |
| 7C   | 9415764 | + BOLT, #8-32X3/4" (12.9001)                                  | 2     |   |   |   |  |  |  |  |  |  |  |  |  |  |
| 7C   | 5180116 | BOLT (U) (2.9867)                                             | 1     |   |   |   |  |  |  |  |  |  |  |  |  |  |
| 7C   | 192482  | + NUT, #8-32 (12.9120)                                        | 3     |   |   |   |  |  |  |  |  |  |  |  |  |  |
| 7C   | 454749  | NUT, #10-32 (12.9120)                                         | 1     |   |   |   |  |  |  |  |  |  |  |  |  |  |
| 7C   | 120613  | NUT, 1/4"-28 (12.9120)                                        | 1     |   |   |   |  |  |  |  |  |  |  |  |  |  |
| 7C   | 120375  | NUT, 1/4"-20 (12.9120)                                        | 2     |   |   |   |  |  |  |  |  |  |  |  |  |  |
|      | 103319  | LOCKWASHER, 1/4" (12.9200)                                    | 2     |   |   |   |  |  |  |  |  |  |  |  |  |  |
|      |         | <del>NOT SERVICED, USE ALL PARTS INDICATED (++)</del>         |       |   |   |   |  |  |  |  |  |  |  |  |  |  |

## TYPES

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