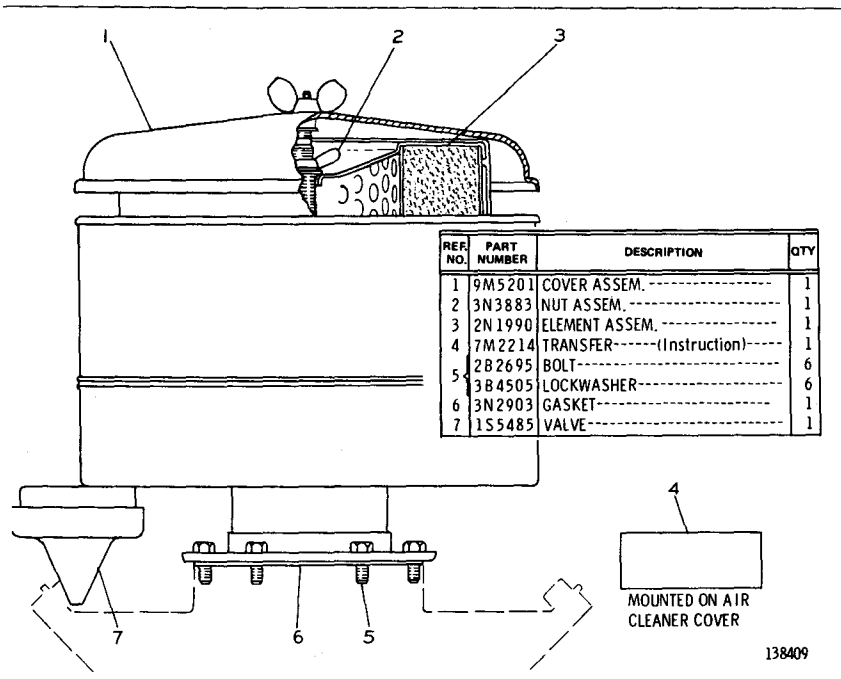
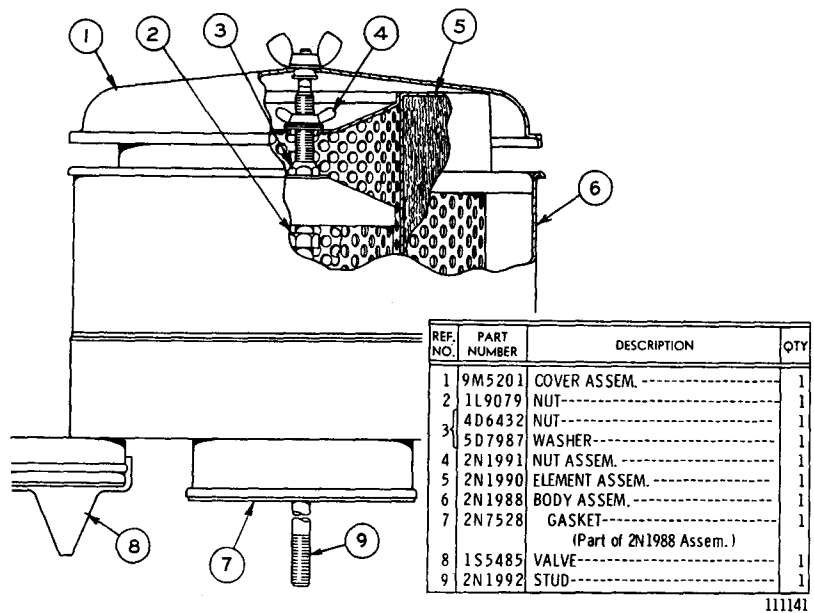
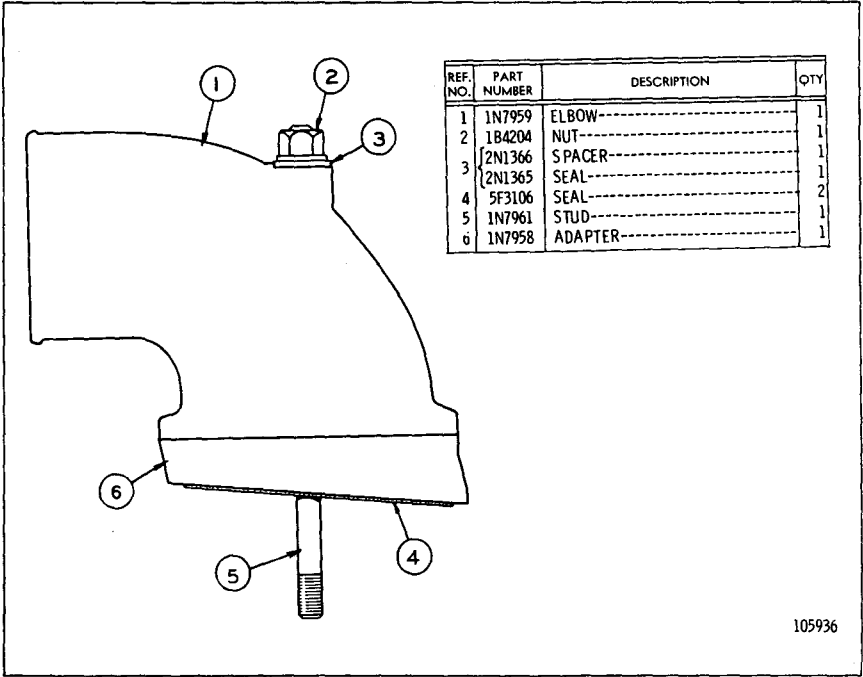




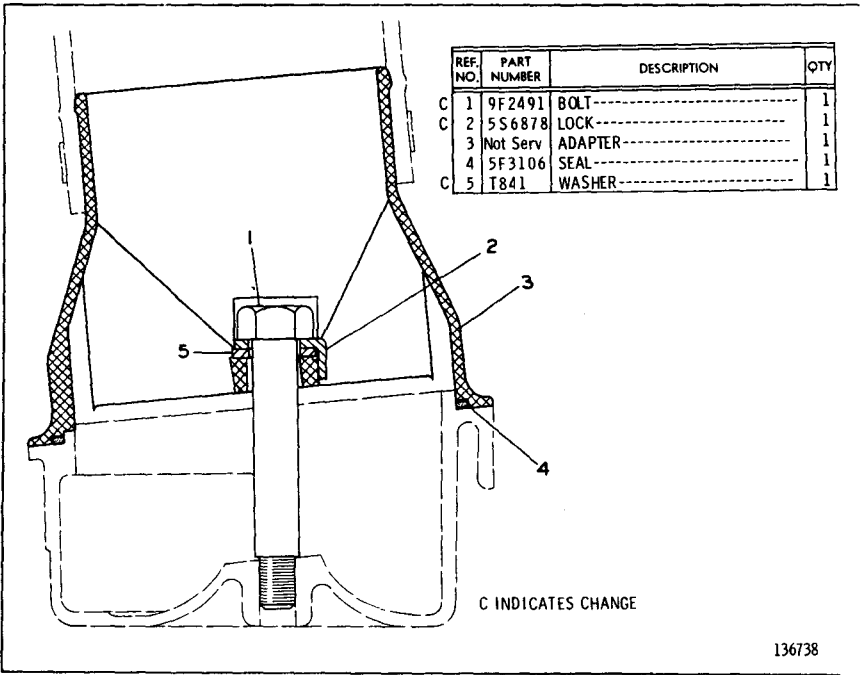
**3N3212 AIR CLEANER GROUP**  
Effective with Serial No. 96M1963



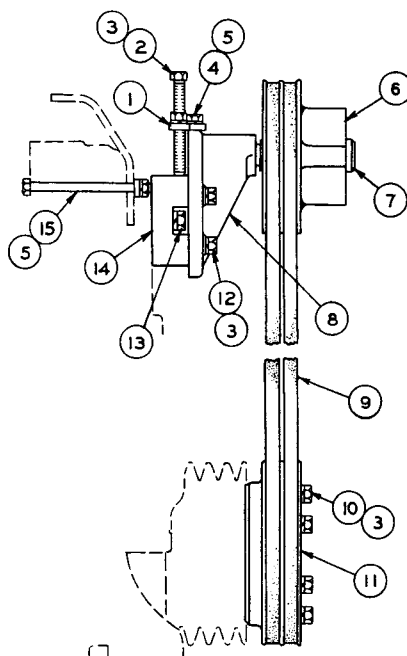
**1N9970 AIR CLEANER ASSEMBLY**  
Serial No. 96M1 to 96M1962 inclusive  
Part of 2N905 Air Cleaner Group shown on Page 67



2N1003 AIR INLET HOSE CONNECTIONS GROUP



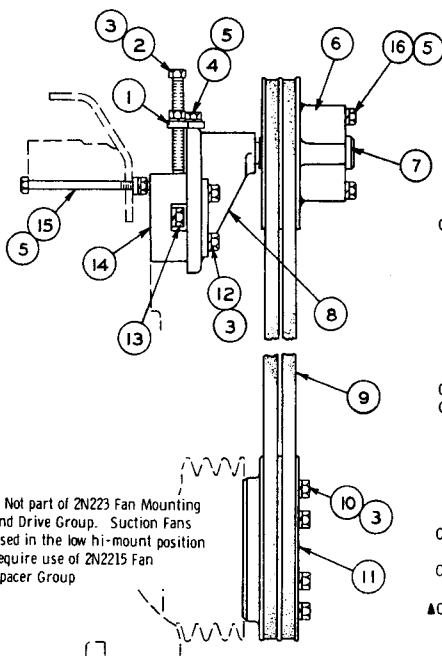
2N5841 AIR INLET HOSE CONNECTIONS GROUP



| REF. NO. | PART NUMBER                    | DESCRIPTION                      | QTY |
|----------|--------------------------------|----------------------------------|-----|
| 1        | 1N9400                         | PLATE-----                       | 1   |
| 2        | 5B4274                         | BOLT-----                        | 1   |
|          | 104717                         | NUT-----                         | 1   |
| 3        | 3B4506                         | LOCKWASHER-----                  | 11  |
| 4        | 2B2695                         | BOLT-----                        | 2   |
| 5        | 3B4505                         | LOCKWASHER-----                  | 3   |
| 6        | 2N224                          | PULLEY ASSEM.-----               | 1   |
|          | 2J6356                         | RING-----                        | 1   |
| 7        | 1N9399                         | SHAFT AND BEARING ASSEM.-----    | 1   |
| 8        | 1N9397                         | BRACKET-----                     | 1   |
|          | (Parts of 2N224 Pulley Assem.) |                                  |     |
| 9        | 9L895                          | VEE BELT SET----- (2 Belts)----- | 1   |
| 10       | S1619                          | BOLT-----                        | 6   |
| 11       | 1N9401                         | PULLEY-----                      | 1   |
| 12       | S1591                          | BOLT-----                        | 4   |
|          | 1A4784                         | WASHER-----                      | 4   |
| 13       | T772                           | BOLT-----                        | 2   |
|          | 3B4507                         | LOCKWASHER-----                  | 2   |
| 14       | 1N9396                         | BRACKET-----                     | 1   |
|          | 1F6296                         | BOLT-----                        | 1   |
| 15       | 6H4485                         | SPACER-----                      | 1   |
|          | 5B3180                         | NUT-----                         | 1   |

106071

2N223 FAN MOUNTING AND DRIVE GROUP-Type 1

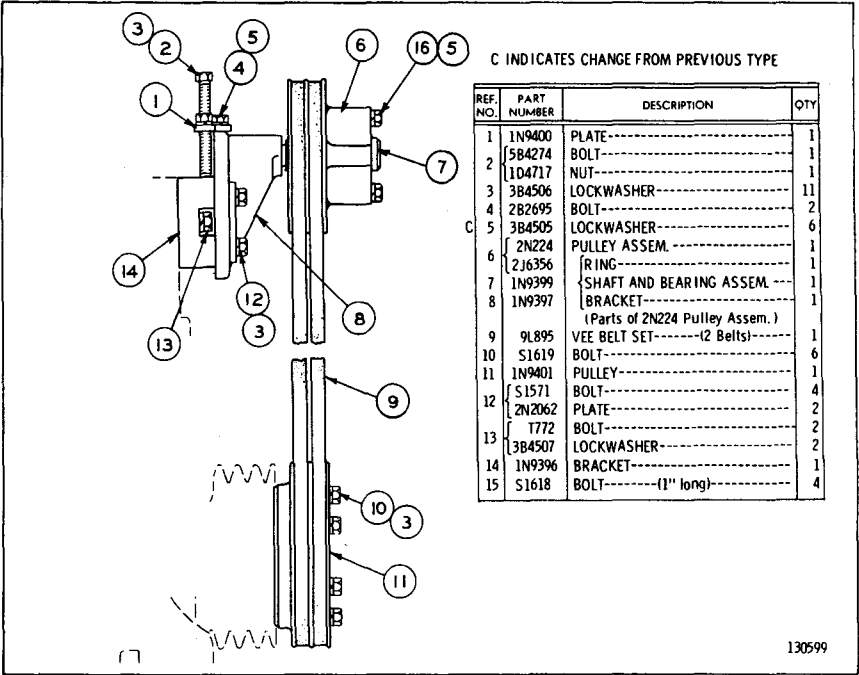


C INDICATES CHANGE FROM PREVIOUS TYPE

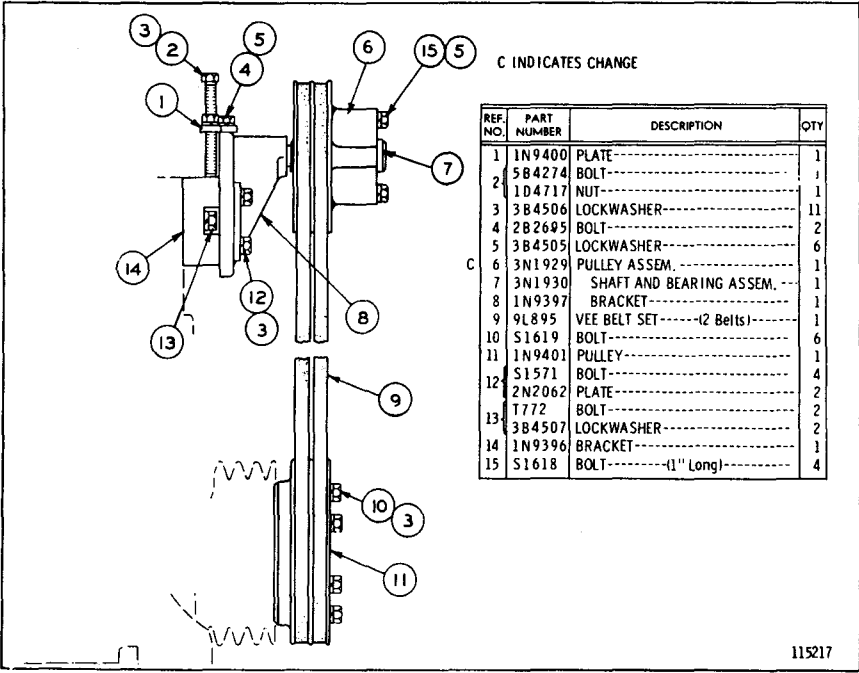
| REF. NO. | PART NUMBER                    | DESCRIPTION                       | QTY |
|----------|--------------------------------|-----------------------------------|-----|
| 1        | 1N9400                         | PLATE-----                        | 1   |
| 2        | 5B4274                         | BOLT-----                         | 1   |
|          | 104717                         | NUT-----                          | 1   |
| 3        | 3B4506                         | LOCKWASHER-----                   | 11  |
| 4        | 2B2695                         | BOLT-----                         | 2   |
| 5        | 3B4505                         | LOCKWASHER-----                   | 7   |
| 6        | 2N224                          | PULLEY ASSEM.-----                | 1   |
|          | 2J6356                         | RING-----                         | 1   |
| 7        | 1N9399                         | SHAFT AND BEARING ASSEM.-----     | 1   |
| 8        | 1N9397                         | BRACKET-----                      | 1   |
|          | (Parts of 2N224 Pulley Assem.) |                                   |     |
| 9        | 9L895                          | VEE BELT SET----- (2 Belts)-----  | 1   |
| 10       | S1619                          | BOLT-----                         | 6   |
| 11       | 1N9401                         | PULLEY-----                       | 1   |
| C 12     | S1571                          | BOLT-----                         | 4   |
| C        | 2N2062                         | PLATE-----                        | 2   |
| C        | T772                           | BOLT-----                         | 2   |
| 13       | 3B4507                         | LOCKWASHER-----                   | 2   |
| 14       | 1N9396                         | BRACKET-----                      | 1   |
|          | 1F6296                         | BOLT-----                         | 1   |
| 15       | 6H4485                         | SPACER-----                       | 1   |
|          | 5B3180                         | NUT-----                          | 1   |
| C        | S1618                          | BOLT----- (1" long)-----          | 4   |
|          | -OR-                           |                                   |     |
| C 16     | 1B9575                         | BOLT----- (1.75" long)-----       | 4   |
|          | (Part of 2N2215 Group)         |                                   |     |
| ▲ C      | 2N2215                         | FAN SPACER GROUP----- (Not Shown) | 1   |

126656

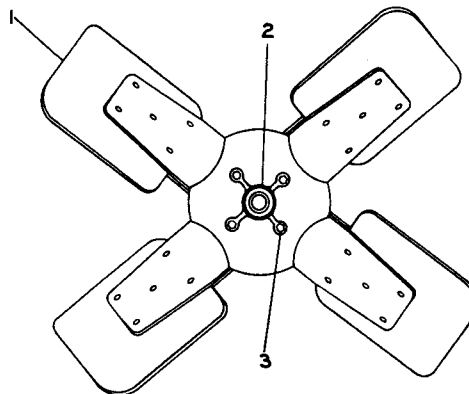
2N223 FAN MOUNTING AND DRIVE GROUP-Type 2



2N223 FAN MOUNTING AND DRIVE GROUP-Type 3



2N223 FAN MOUNTING AND DRIVE GROUP-Type 4

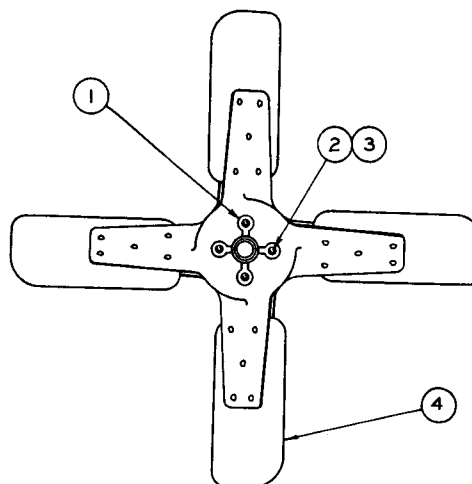


| REF. NO. | PART NUMBER | DESCRIPTION            | QTY |
|----------|-------------|------------------------|-----|
| 1        | 2N1655      | FAN SPIDER ASSEM.----- | 1   |
| 2        | 1N9787      | SPACER-----            | 1   |

|   |        |                 |   |
|---|--------|-----------------|---|
| 3 | 1F4111 | BOLT-----       | 4 |
|   | 3B4505 | LOCKWASHER----- | 4 |

111125

**2N1661 BLOWER FAN GROUP—22" Diameter—2.10" Projected Width**  
 Only separate parts serviced  
 When complete Group is required order 2N2895



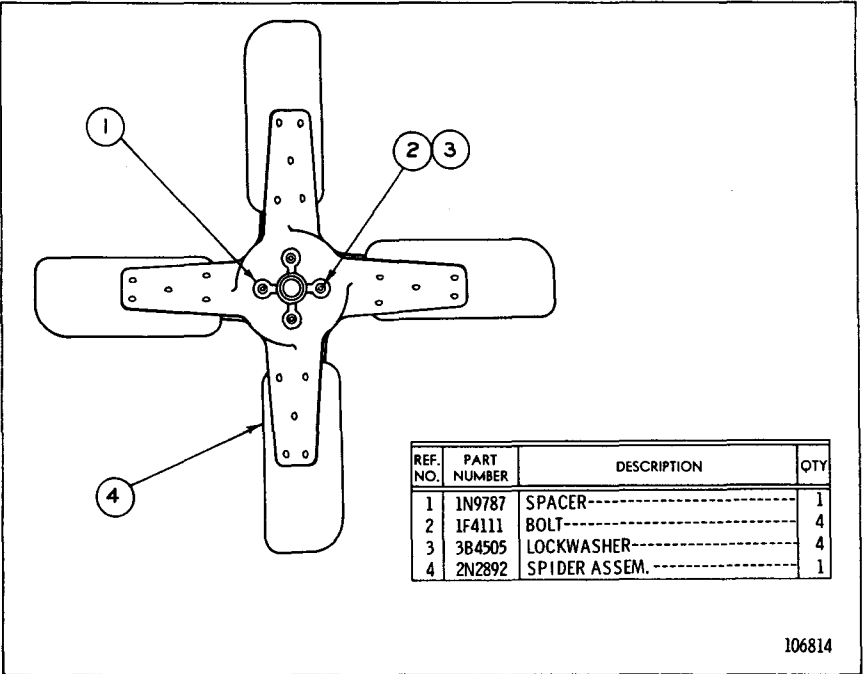
| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|----------|-------------|-------------|-----|
| 1        | 1N9787      | SPACER----- | 1   |
| 2        | 4B831       | BOLT-----   | 4   |

|   |        |                        |   |
|---|--------|------------------------|---|
| 3 | 3B4505 | LOCKWASHER-----        | 4 |
| 4 | 2N2361 | FAN SPIDER ASSEM.----- | 1 |

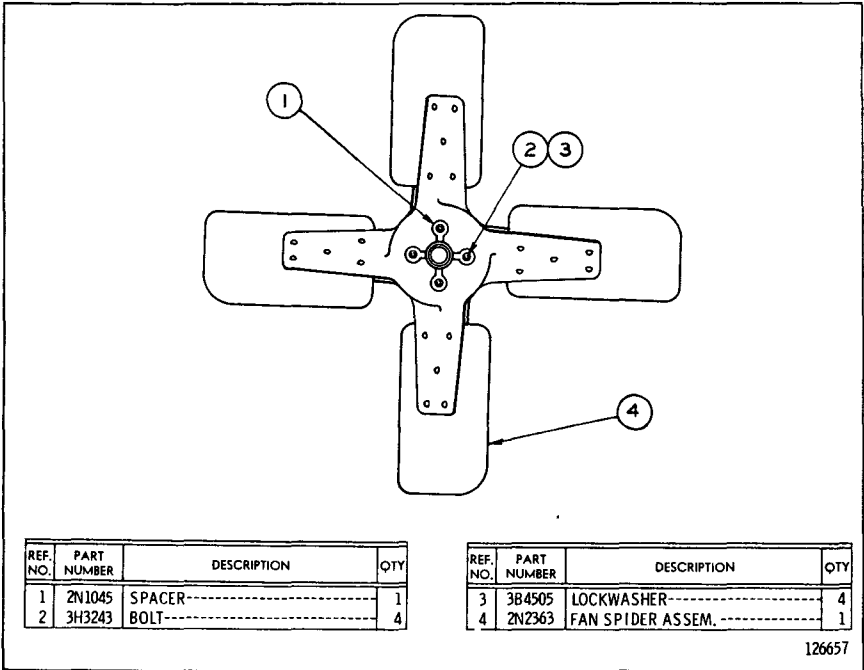
106816

**2N2858 BLOWER FAN GROUP—22" Diameter—2.37" Projected Width**

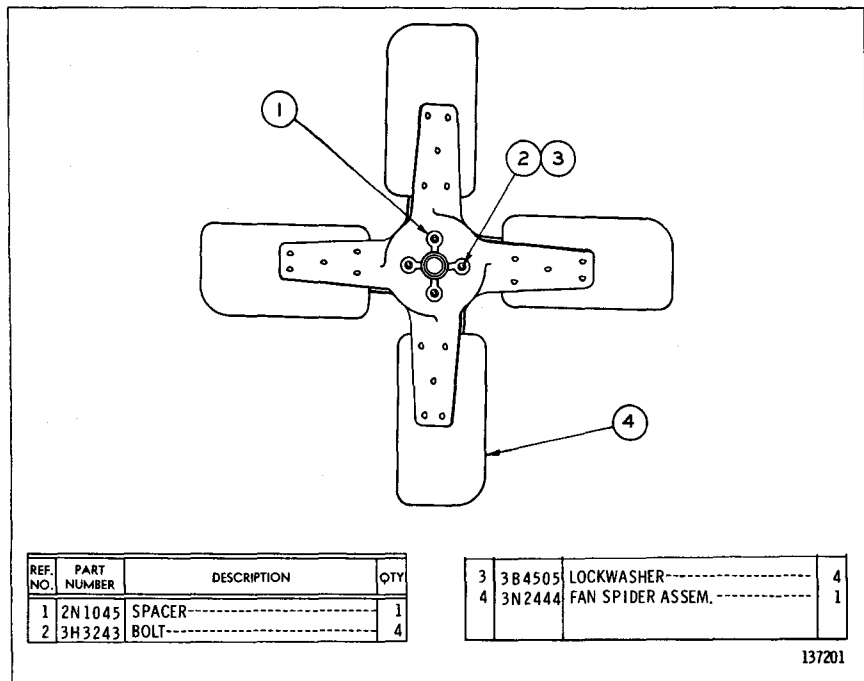
ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS



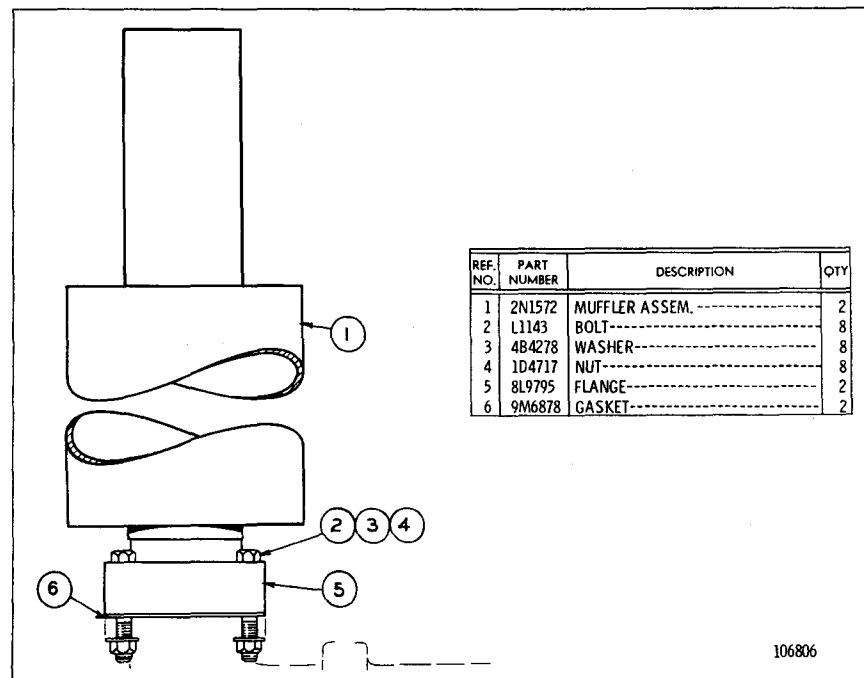
2N2895 BLOWER FAN GROUP—22" Diameter—1.58" Projected Width



2N2458 SUCTION FAN GROUP—22" Diameter

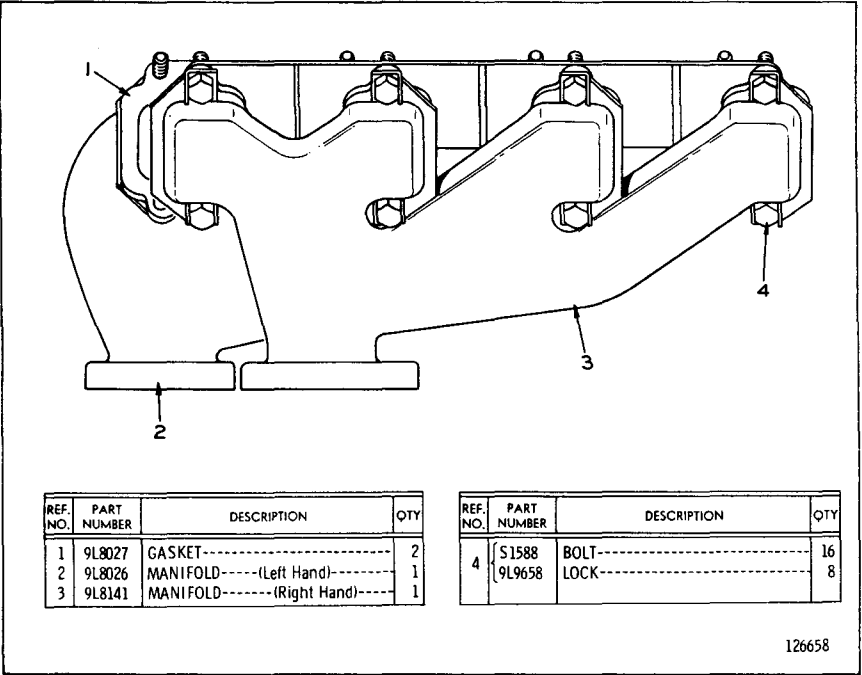


3N2445 SUCTION FAN GROUP--22" Diameter

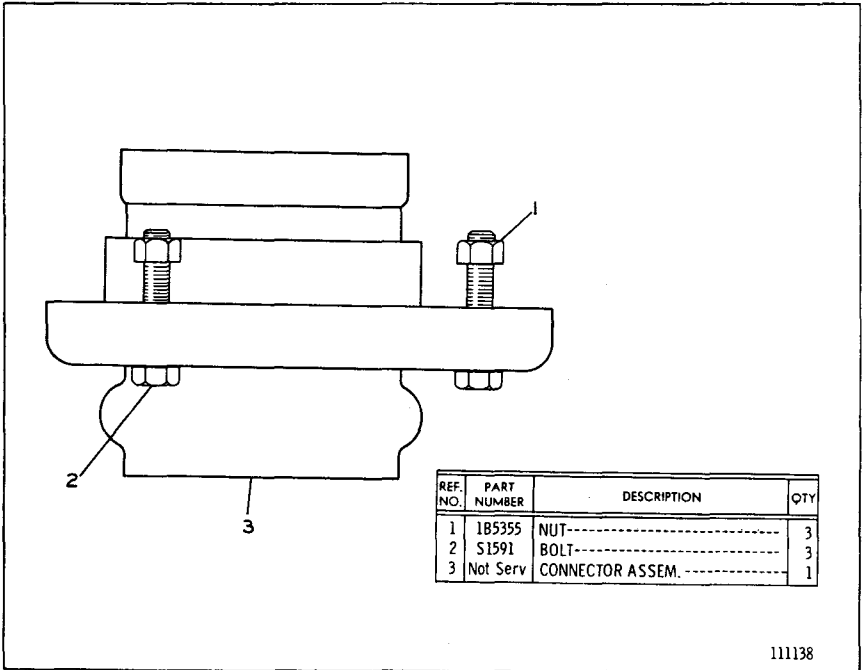


2N1646 MUFFLER GROUP

ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS

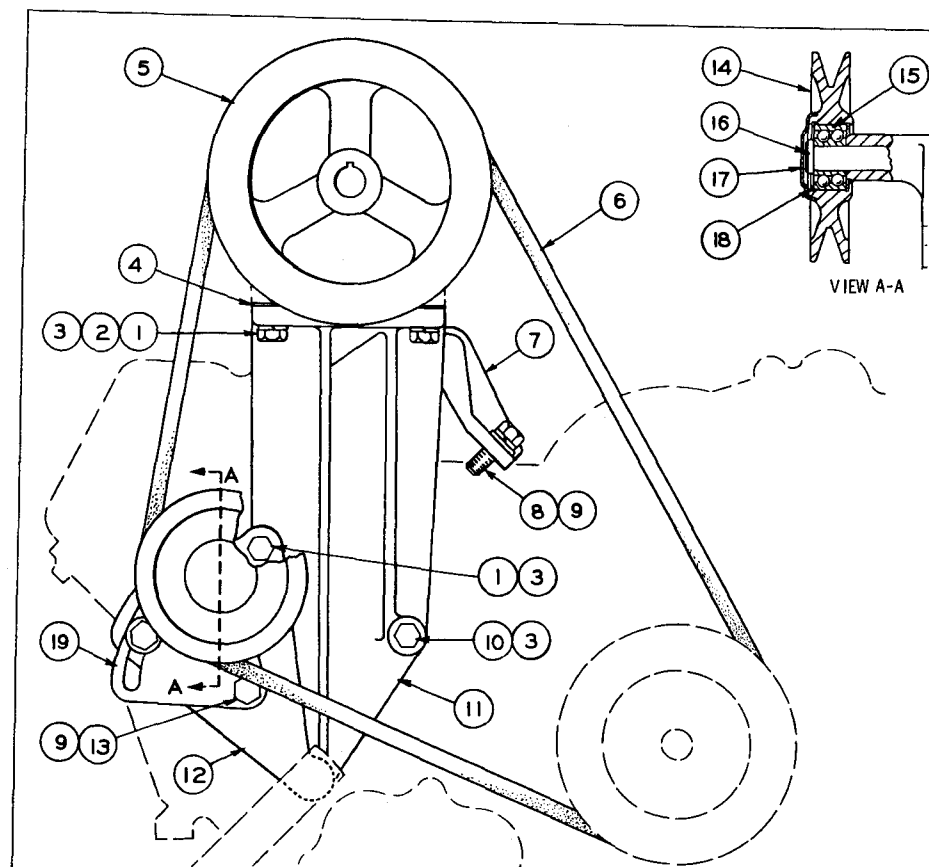


2N2467 MANIFOLD GROUP



9L7147 EXHAUST CONNECTOR GROUP--2 Required  
FOR USE WITH 2N2467 MANIFOLD GROUP

ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS

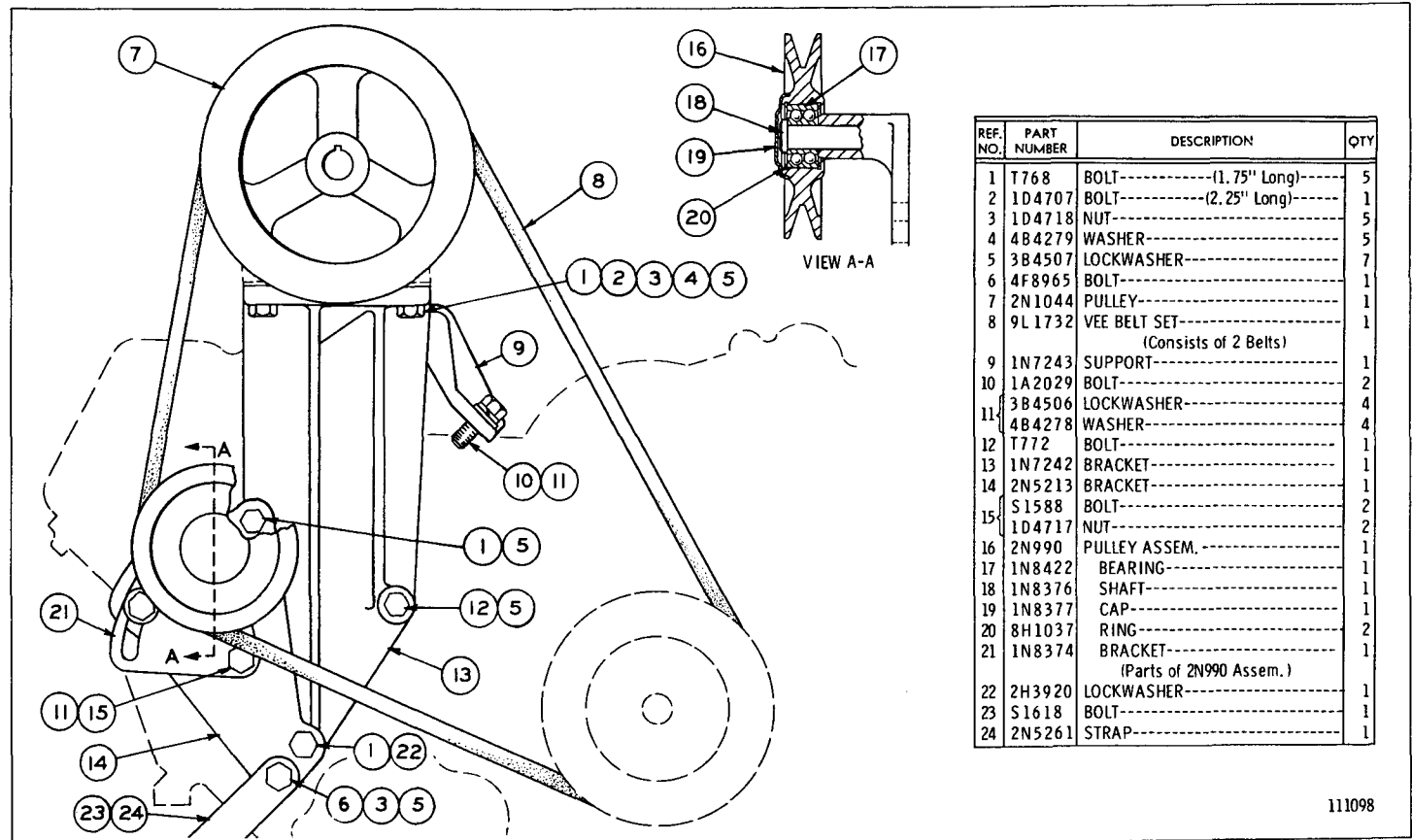


| REF. NO. | PART NUMBER | DESCRIPTION                                | QTY |
|----------|-------------|--------------------------------------------|-----|
| 1        | T768        | BOLT----- (1.75" long)-----                | 4   |
| 2        | 1D4707      | BOLT----- (2.25" long)-----                | 1   |
| 2        | 1D4718      | NUT-----                                   | 4   |
| 2        | 4B4279      | WASHER-----                                | 1   |
| 3        | 3B4507      | LOCKWASHER-----                            | 6   |
| 4        | 7B2513      | GASKET-----                                | 1   |
| 5        | 2N1044      | PULLEY-----                                | 1   |
| 6        | 9L1732      | VEE BELT SET-----<br>(Consists of 2 Belts) | 1   |
| 7        | 1N7243      | SUPPORT-----                               | 1   |
| 8        | 1A2029      | BOLT-----                                  | 2   |
| 9        | 3B4506      | LOCKWASHER-----                            | 4   |
| 9        | 4B4278      | WASHER-----                                | 4   |
| 10       | T772        | BOLT-----                                  | 1   |
| 11       | 1N7242      | BRACKET-----                               | 1   |
| 12       | 1N8375      | BRACKET-----                               | 1   |
| 13       | S1588       | BOLT-----                                  | 2   |
| 13       | 1D4717      | NUT-----                                   | 2   |
| 14       | 2N990       | PULLEY ASSEM.-----                         | 1   |
| 15       | 1N8422      | BEARING-----                               | 1   |
| 16       | 1N8376      | SHAFT-----                                 | 1   |
| 17       | 1N8377      | CAP-----                                   | 1   |
| 18       | 8H1037      | RING-----                                  | 2   |
| 19       | 1N8374      | BRACKET-----<br>(Parts of 2N990 Assem.)    | 1   |

2N1370 AIR COMPRESSOR MOUNTING AND DRIVE GROUP--Type 1

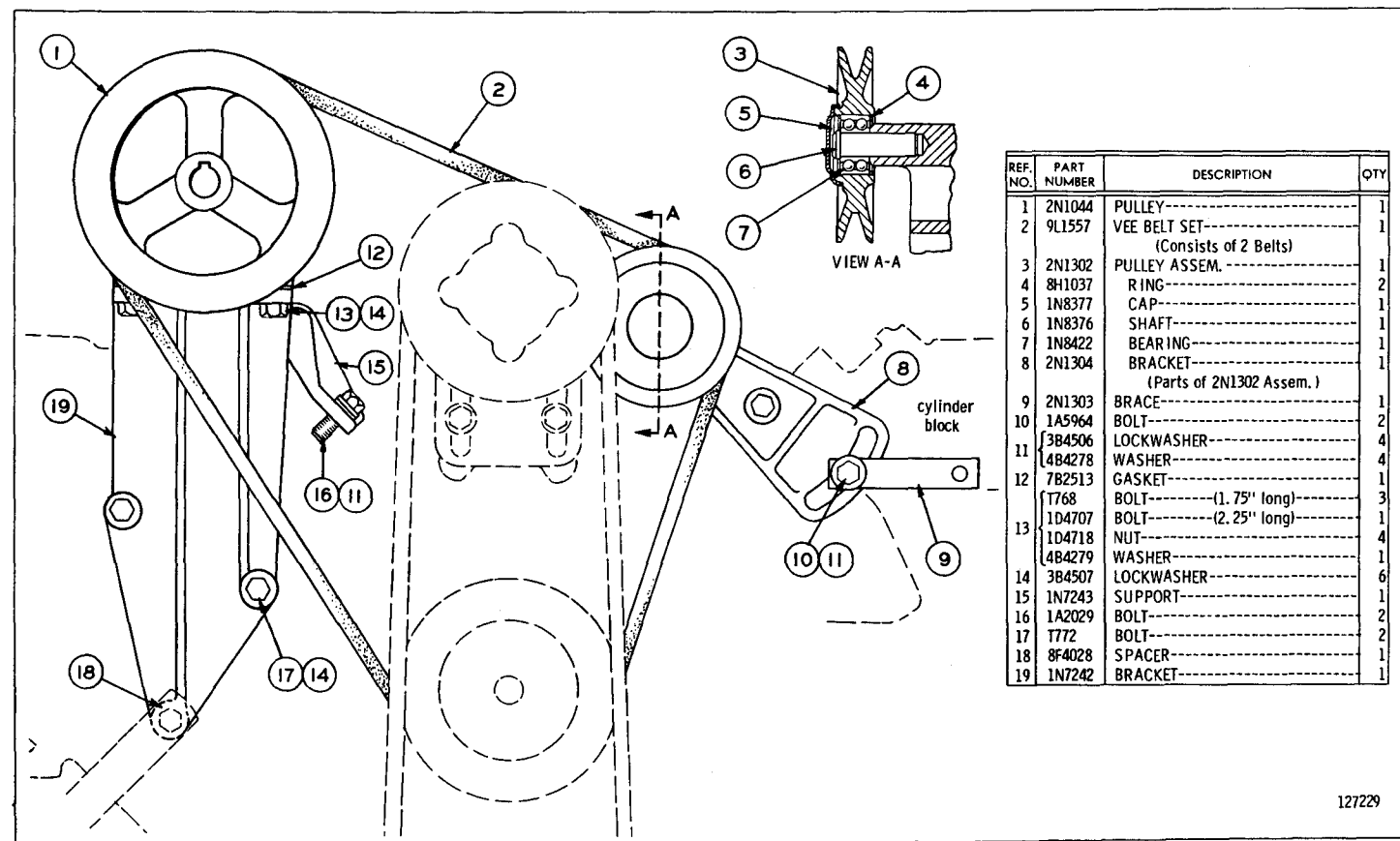
106084

2N1370 AIR COMPRESSOR MOUNTING AND DRIVE GROUP—Type 2



111098

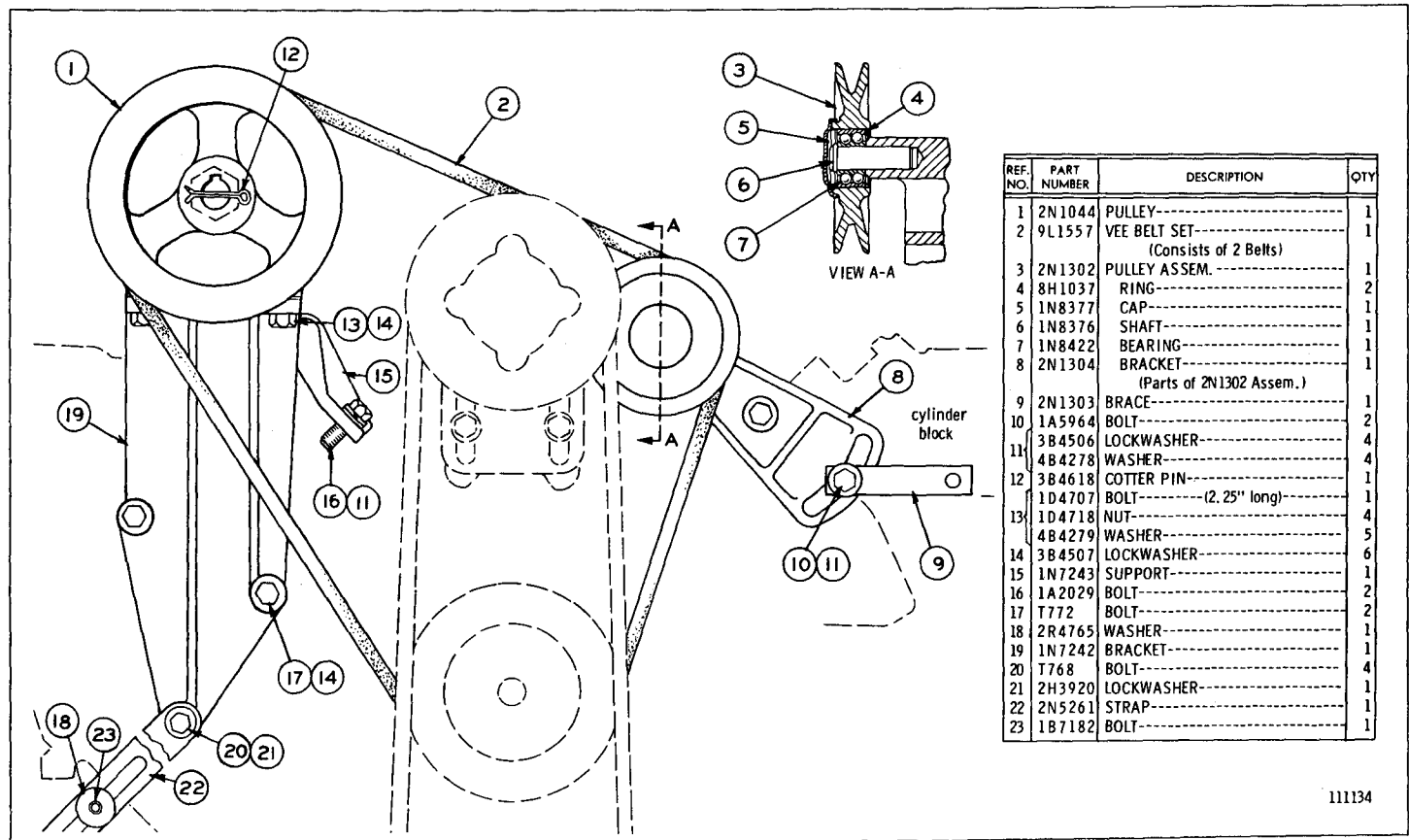
ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS



127229

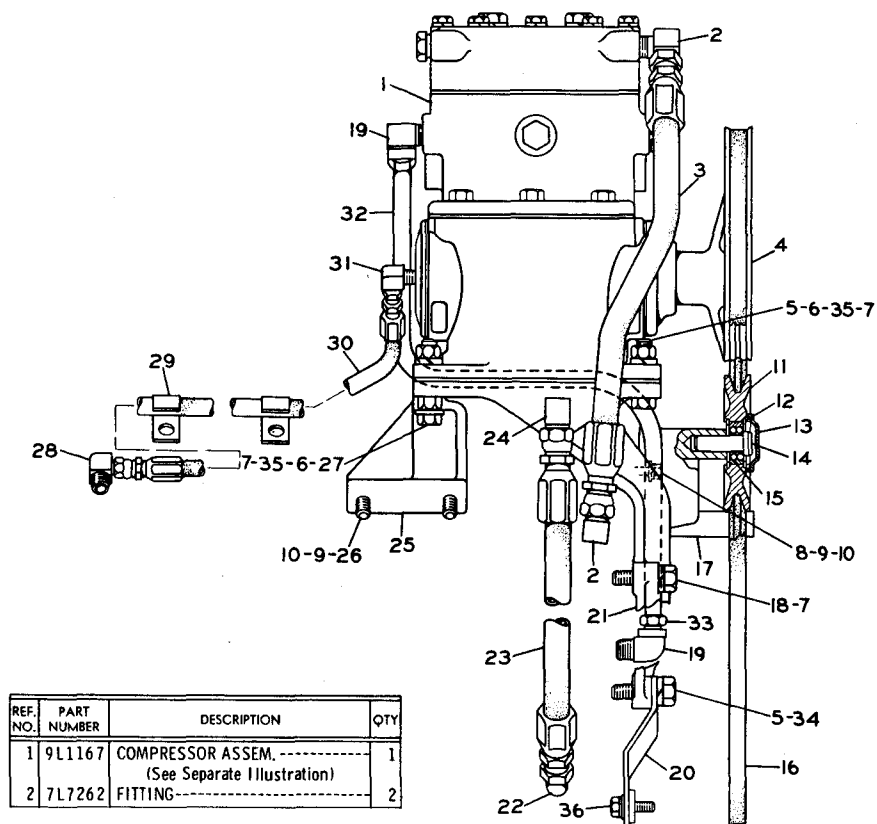
2N1371 AIR COMPRESSOR MOUNTING AND DRIVE GROUP—Type 1  
FOR USE WITH HIGH-MOUNT FAN

2N1371 AIR COMPRESSOR MOUNTING AND DRIVE GROUP—Type 2  
FOR USE WITH HIGH-MOUNT FAN



111134

ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS

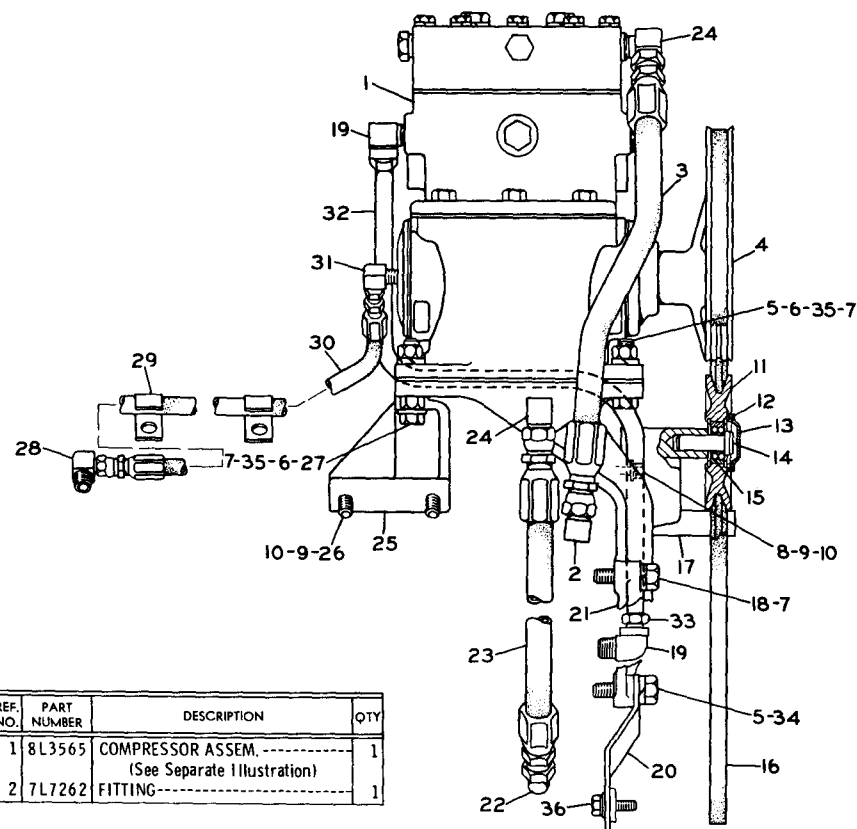


|                          |        |                                      |   |
|--------------------------|--------|--------------------------------------|---|
| 3                        | 2N1343 | HOSE ASSEM. --(15' Long Overall)--   | 1 |
| 4                        | 9L9809 | PULLEY-----                          | 1 |
| 5                        | 3B4618 | COTTER PIN-----                      | 1 |
| 6                        | 1D4718 | NUT-----                             | 4 |
| 7                        | 3B4507 | LOCKWASHER-----                      | 6 |
| 8                        | 1A5964 | BOLT-----                            | 2 |
| 9                        | 3B4506 | LOCKWASHER-----                      | 4 |
| 10                       | 4B4278 | WASHER-----                          | 4 |
| 11                       | 2N1302 | PULLEY ASSEM. -----                  | 1 |
| 12                       | 8H1037 | RING-----                            | 2 |
| 13                       | 1N8377 | CAP-----                             | 1 |
| 14                       | 1N8376 | SHAFT-----                           | 1 |
| 15                       | 1N8422 | BEARING-----                         | 1 |
| (Parts of 2N1302 Assem.) |        |                                      |   |
| 16                       | 7L5001 | VEE BELT-----                        | 1 |
| 17                       | 2N1303 | BRACE-----                           | 1 |
| 18                       | 1772   | BOLT-----                            | 2 |
| 19                       | 5K9244 | ELBOW-----                           | 2 |
| 20                       | 2N5261 | STRAP-----                           | 1 |
| 21                       | 1N7242 | BRACKET-----                         | 1 |
| 22                       | 2N1288 | FITTING-----                         | 1 |
| 23                       | 2N1347 | HOSE ASSEM. --(19' Long Overall)--   | 1 |
| 24                       | 2N3378 | FITTING-----                         | 1 |
| 25                       | 1N7243 | SUPPORT-----                         | 1 |
| 26                       | 1A2029 | BOLT-----                            | 2 |
| 27                       | 1D4707 | BOLT-----                            | 1 |
| 28                       | 6K1972 | FITTING-----                         | 1 |
| 29                       | 1H5166 | CLIP-----                            | 2 |
| 30                       | 2N1345 | HOSE ASSEM. --(23.5' Long Overall)-- | 1 |
| 31                       | 2N1287 | FITTING-----                         | 1 |
| 32                       | 2N1341 | TUBE ASSEM. -----                    | 1 |
| 33                       | 3K846  | NUT-----                             | 2 |
| (Part of 2N1341 Assem.)  |        |                                      |   |
| 34                       | 2H3920 | LOCKWASHER-----                      | 1 |
| 35                       | 4B4279 | WASHER-----                          | 5 |
| 36                       | 1B7182 | BOLT-----                            | 1 |
|                          | 2R4765 | WASHER-----                          | 1 |

129492

2N6446 AIR COMPRESSOR GROUP--Type 1  
9L1167 Air Compressor parts are shown on Page 82

2N6446 AIR COMPRESSOR GROUP—Type 2  
8L3565 Air Compressor parts are shown on Page 83

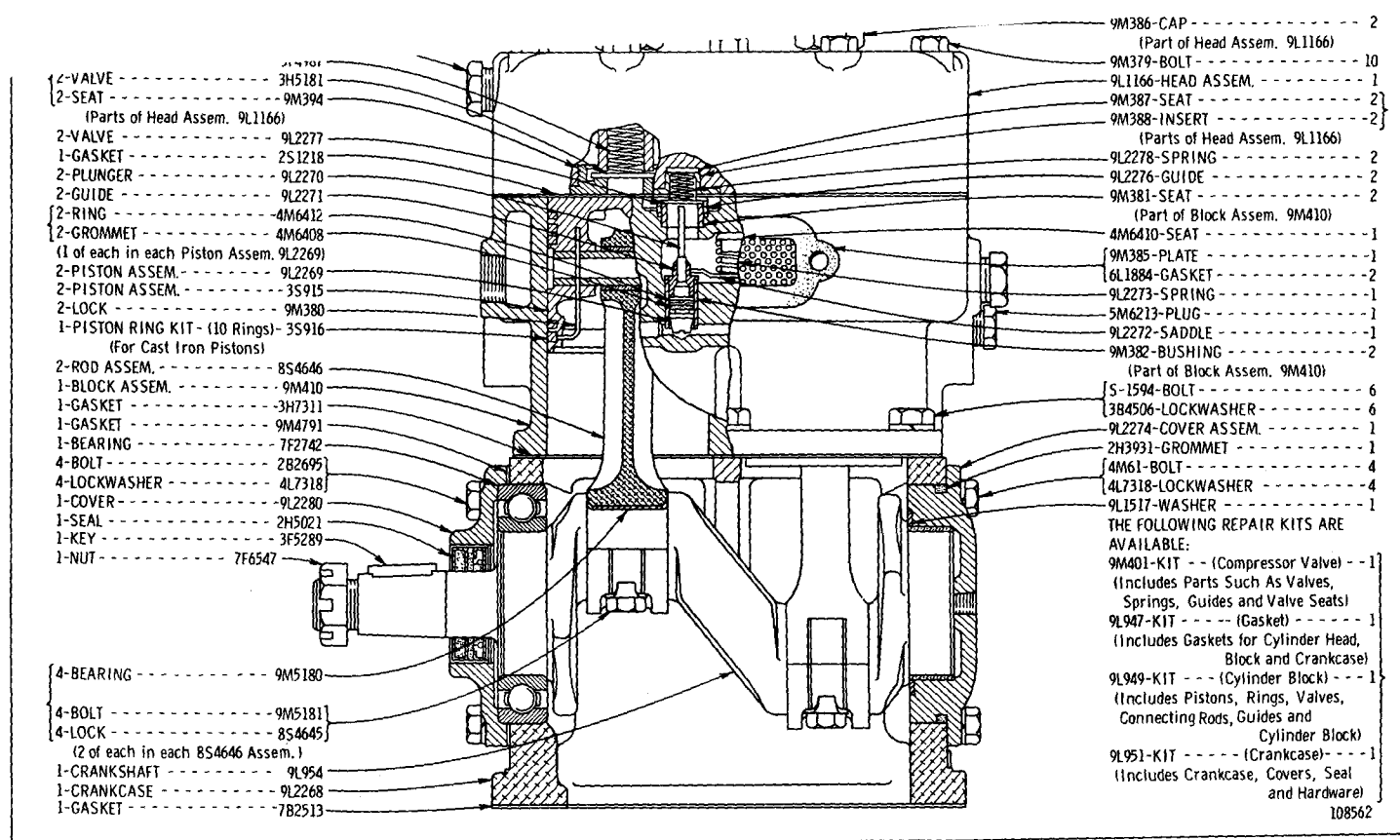


| REF. NO. | PART NUMBER | DESCRIPTION                                           | QTY |
|----------|-------------|-------------------------------------------------------|-----|
| 1        | 8L3565      | COMPRESSOR ASSEM.-----<br>(See Separate Illustration) | 1   |
| 2        | 7L7262      | FITTING-----                                          | 1   |

|                          |        |                                      |   |
|--------------------------|--------|--------------------------------------|---|
| 3                        | 2N1343 | HOSE ASSEM. --(15" Long Overall)--   | 1 |
| 4                        | 9L9809 | PULLEY-----                          | 1 |
| 5                        | 3B4618 | COTTER PIN-----                      | 1 |
| 6                        | T768   | BOLT-----                            | 4 |
| 7                        | 1D4718 | NUT-----                             | 4 |
| 8                        | 3B4507 | LOCKWASHER-----                      | 6 |
| 9                        | 1A5964 | BOLT-----                            | 2 |
| 10                       | 3B4506 | LOCKWASHER-----                      | 4 |
| 11                       | 4B4278 | WASHER-----                          | 4 |
| 12                       | 2N1302 | PULLEY ASSEM.-----                   | 1 |
| 13                       | 8H1037 | RING-----                            | 2 |
| 14                       | 1N8377 | CAP-----                             | 1 |
| 15                       | 1N8376 | SHAFT-----                           | 1 |
| 16                       | 1N8422 | BEARING-----                         | 1 |
| (Parts of 2N1302 Assem.) |        |                                      |   |
| 17                       | 7L5001 | VEE BELT-----                        | 1 |
| 18                       | 2N1303 | BRACE-----                           | 1 |
| 19                       | T772   | BOLT-----                            | 2 |
| 20                       | 5K9244 | ELBOW-----                           | 2 |
| 21                       | 2N5261 | STRAP-----                           | 1 |
| 22                       | 1N7242 | BRACKET-----                         | 1 |
| 23                       | 2N1288 | FITTING-----                         | 1 |
| 24                       | 2N1347 | HOSE ASSEM. --(19" Long Overall)--   | 1 |
| 25                       | 2N3378 | FITTING-----                         | 2 |
| 26                       | 1N7243 | SUPPORT-----                         | 1 |
| 27                       | 1A2029 | BOLT-----                            | 2 |
| 28                       | 1D4707 | BOLT-----                            | 1 |
| 29                       | 6K1972 | FITTING-----                         | 1 |
| 30                       | 1H5166 | CLIP-----                            | 2 |
| 31                       | 2N1345 | HOSE ASSEM. --(23.5" Long Overall)-- | 1 |
| 32                       | 2N1287 | FITTING-----                         | 1 |
| 33                       | 2N1341 | TUBE ASSEM.-----                     | 1 |
| 34                       | 3K846  | NUT-----                             | 2 |
| (Part of 2N1341 Assem.)  |        |                                      |   |
| 35                       | 2H3920 | LOCKWASHER-----                      | 1 |
| 36                       | 4B4279 | WASHER-----                          | 5 |
|                          | 1B7182 | BOLT-----                            | 1 |
|                          | 2R4765 | WASHER-----                          | 1 |

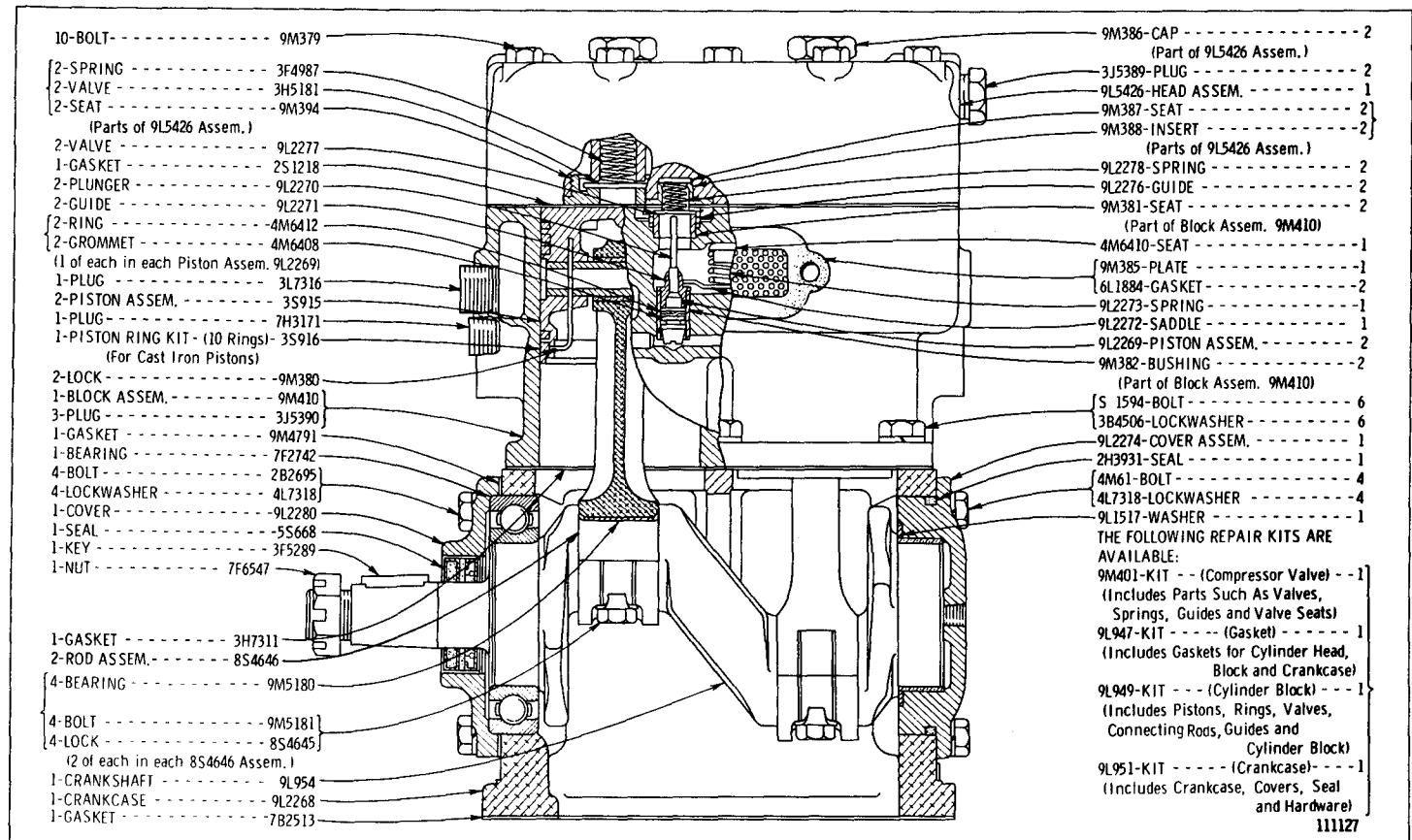
111126

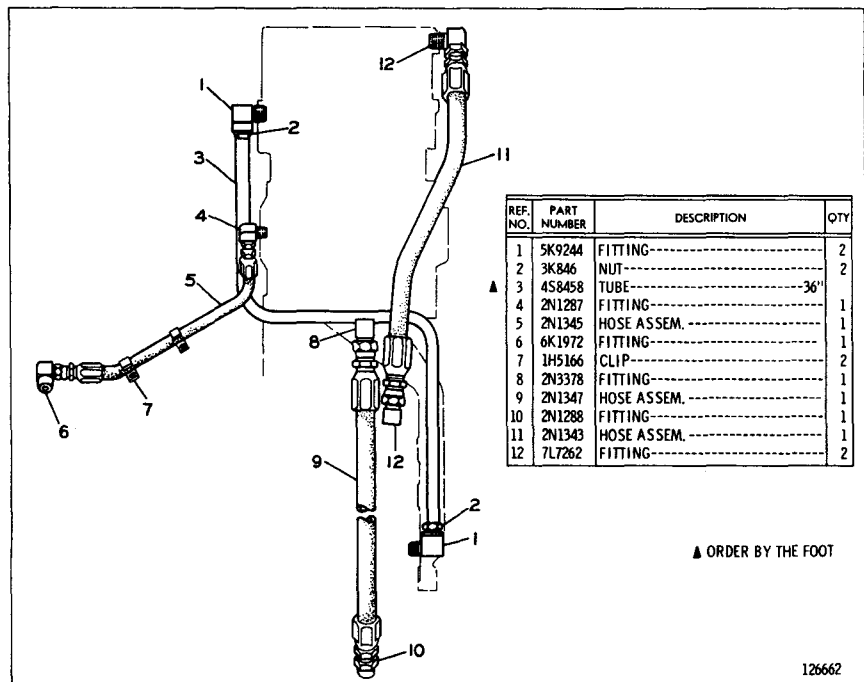
AYS GIVE CEDIAI



UNIFILLAR 3145 ENGINE

**8L3565 AIR COMPRESSOR ASSEMBLY**  
Part of 2N6446 Air Compressor Group shown on Page 81



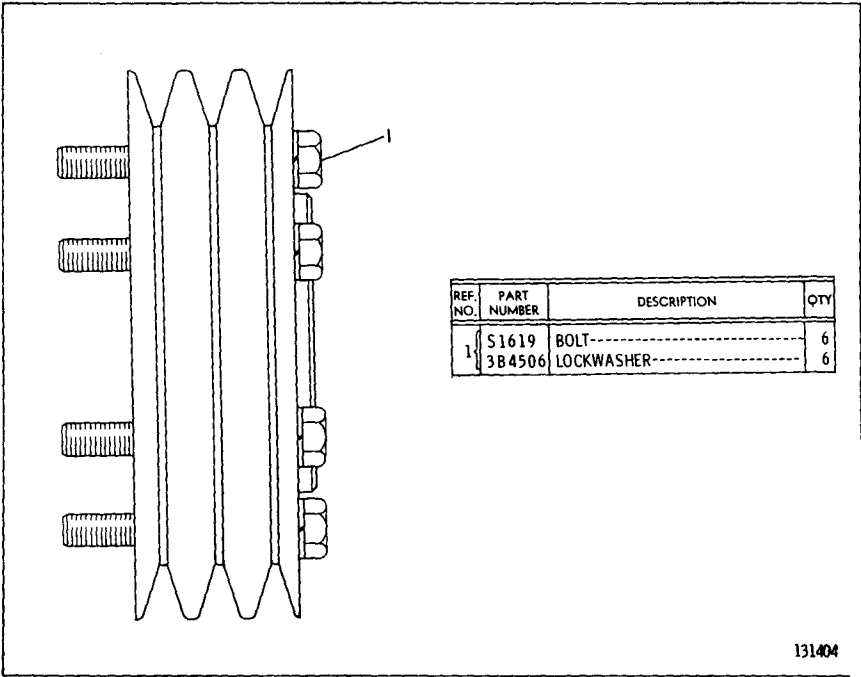


2N996 AIR COMPRESSOR CONNECTIONS GROUP

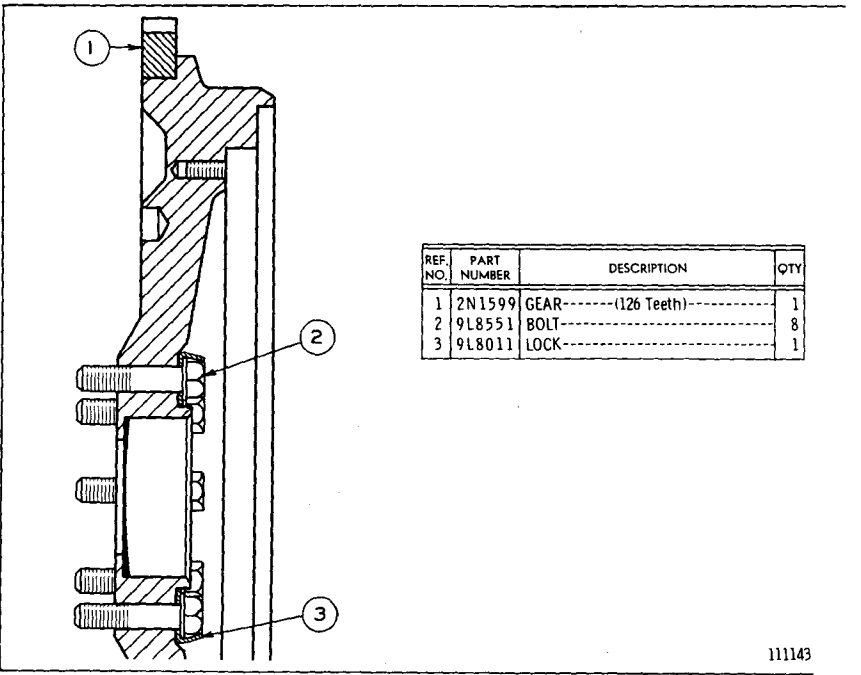
| Consists of: |        |                                      | Page |
|--------------|--------|--------------------------------------|------|
| 1            | 9L8127 | Crankshaft Assembly.....             | 26   |
| 8            | 9L8569 | Connecting Rod and Piston Group..... | 30   |
| 1            | 9L9446 | Cylinder Block Group.....            | 20   |
| 1            | 9L7127 | Bearing--Thrust                      |      |
| 4            | 9L7128 | Bearing--Main                        |      |

9L9908 SHORT BLOCK GROUP--4.1" Stroke

ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS

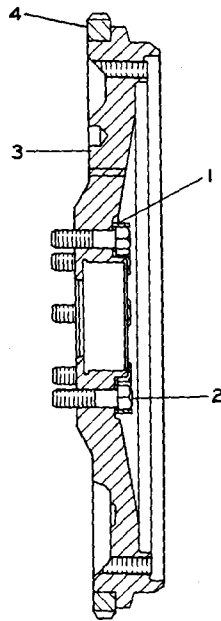


9L7461 CRANKSHAFT PULLEY GROUP



2N3489 FLYWHEEL GROUP  
FOR USE WITH S.A.E. NO. 3 FLYWHEEL HOUSING

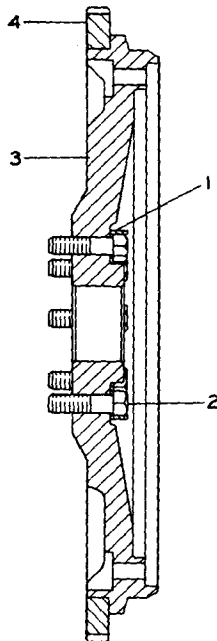
# CATERPILLAR 3145 ENGINE



| REF. NO. | PART NUMBER | DESCRIPTION                                           | QTY |
|----------|-------------|-------------------------------------------------------|-----|
| 1        | 9L8011      | LOCK-----                                             | 1   |
| 2        | 9L8551      | BOLT-----                                             | 8   |
| 3        | 2N5728      | FLYWHEEL ASSEM.-----                                  | 1   |
| 4        | 2N1599      | GEAR----- (126 Teeth)-----<br>(Part of 2N5728 Assem.) | 1   |

111133

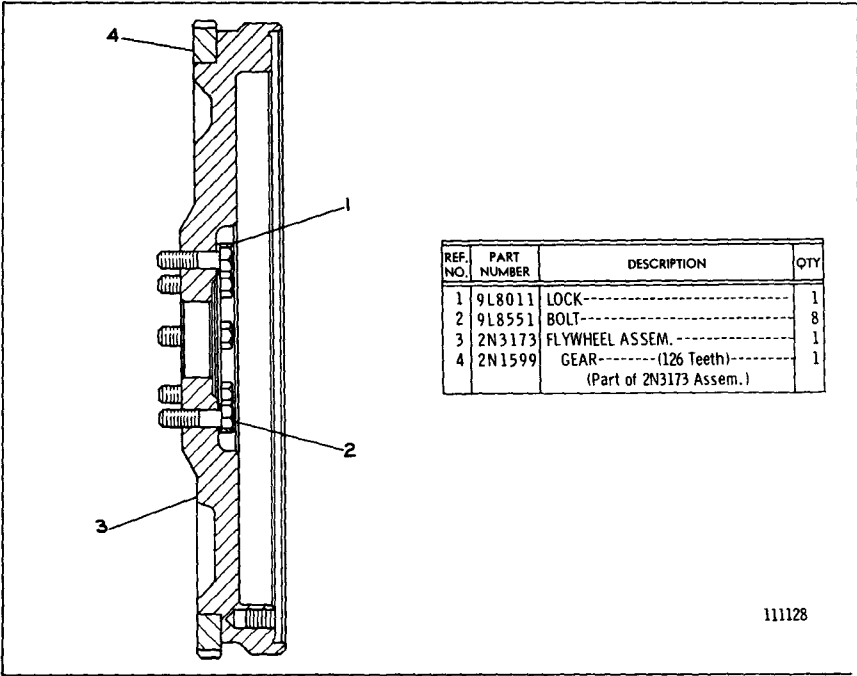
2N8369 FLYWHEEL GROUP  
FOR USE WITH S.A.E. NO. 3 FLYWHEEL HOUSING  
Only separate parts serviced



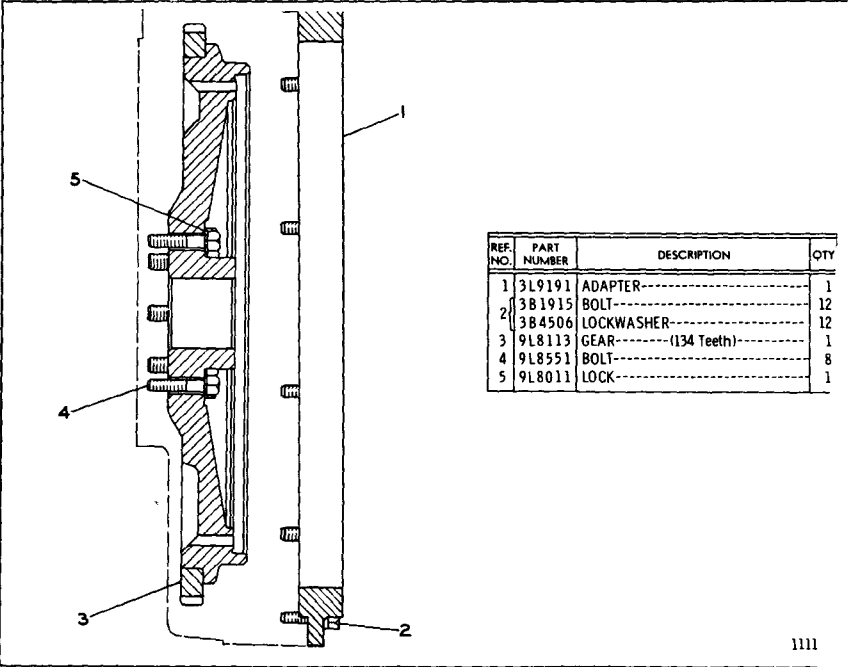
| REF. NO. | PART NUMBER | DESCRIPTION                                           | QTY |
|----------|-------------|-------------------------------------------------------|-----|
| 1        | 9L8011      | LOCK-----                                             | 1   |
| 2        | 9L8551      | BOLT-----                                             | 8   |
| 3        | 2N3252      | FLYWHEEL ASSEM.-----                                  | 1   |
| 4        | 2N1599      | GEAR----- (126 Teeth)-----<br>(Part of 2N3252 Assem.) | 1   |

111131

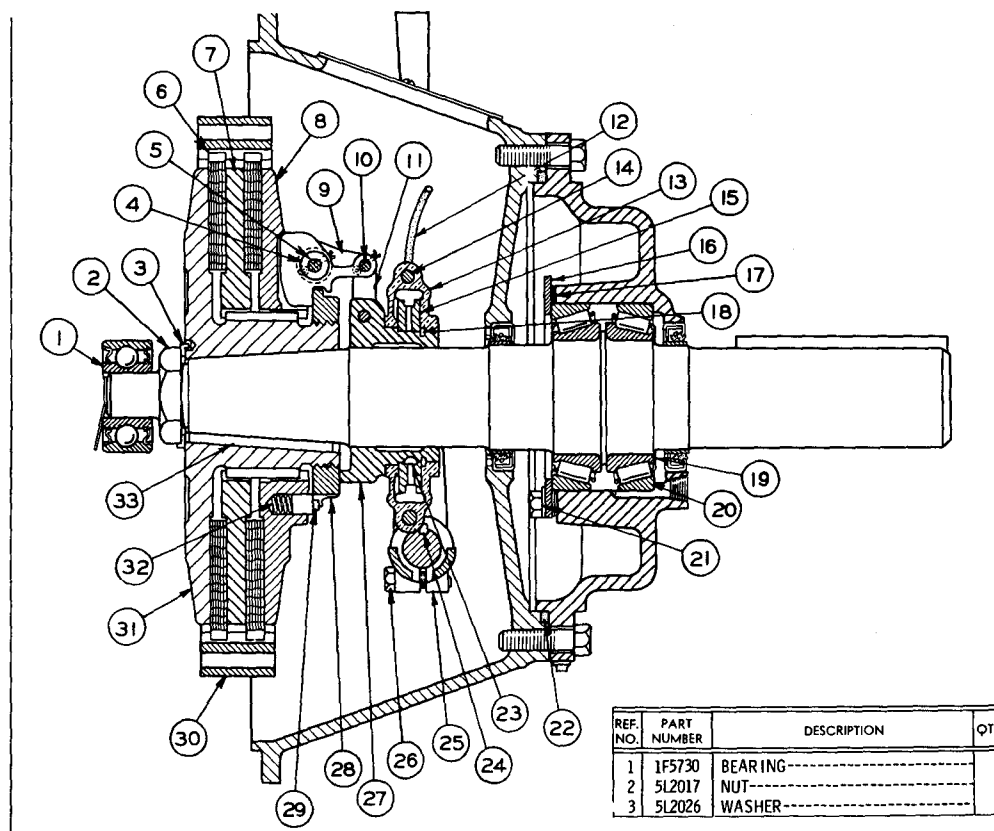
2N8368 FLYWHEEL GROUP  
FOR USE WITH S.A.E. NO. 3 FLYWHEEL HOUSING  
Only separate parts serviced  
ALWAYS GIVE SERIAL NUMBER



2N8367 FLYWHEEL GROUP  
FOR USE WITH S.A.E. NO. 3 FLYWHEEL HOUSING  
Only separate parts serviced



2N7184 TRANSMISSION MOUNTING GROUP  
FOR USE WITH S.A.E. NO. 2 FLYWHEEL HOUSING

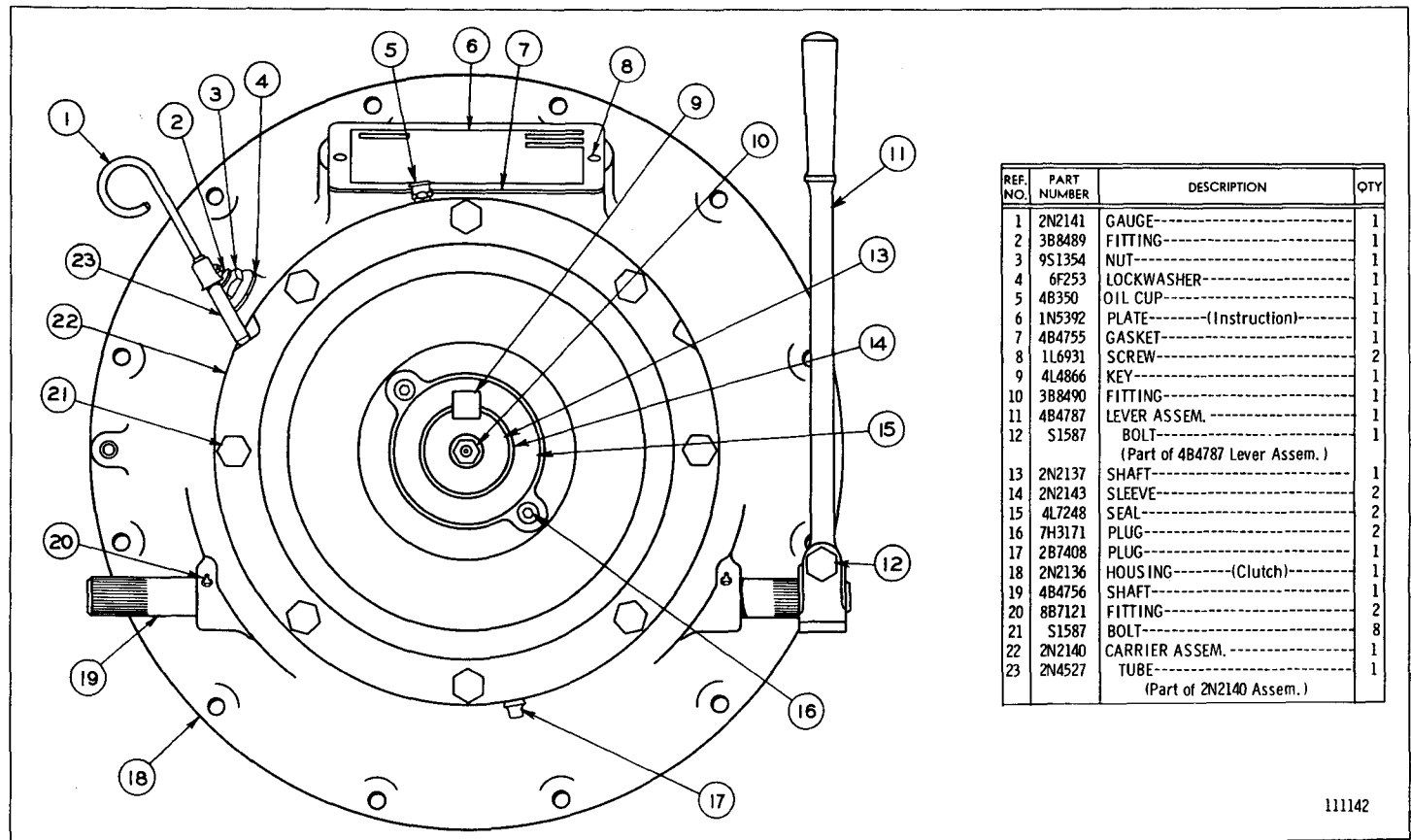


|                                 |        |                                     |   |
|---------------------------------|--------|-------------------------------------|---|
| 4                               | 2L8314 | WASHER-----                         | 6 |
| 5                               | 6L3966 | PIN-----                            | 3 |
| 6                               | 6L3964 | COTTER PIN-----                     | 3 |
| 7                               | 7S7934 | PLATE ASSEM.-----(72 Teeth)----     | 2 |
| 8                               | 5L2012 | PLATE-----                          | 1 |
| 9                               | 2L8263 | LEVER-----                          | 3 |
| 10                              | 6L3965 | PIN-----                            | 6 |
| 11                              | 6L3960 | COTTER PIN-----                     | 6 |
| 12                              | 5B5251 | LINK-----                           | 6 |
| 13                              | 4B4775 | HOSE ASSEM.---(12" long overall)--- | 1 |
| 14                              | 2N2146 | COLLAR ASSEM.-----                  | 1 |
| 15                              | 5L3561 | SHIM-----                           | 2 |
| 16                              | L1648  | BOLT-----                           | 2 |
| 17                              | 2L6267 | NUT-----                            | 2 |
| (Parts of 2N2146 Collar Assem.) |        |                                     |   |
| 18                              | 2N2145 | RING-----                           | 1 |
| 19                              | 2N2142 | RETAINER-----                       | 1 |
| 20                              | 2N2148 | SHIM-----(.005" Thick)-----         | 1 |
| 21                              | 2N2149 | SHIM-----(.007" Thick)-----         | 1 |
| 22                              | 2N2150 | SHIM-----(.010" Thick)-----         | 1 |
| 23                              | 2N2151 | SHIM-----(.020" Thick)-----         | 1 |
| 24                              | 1K6730 | RING-----                           | 1 |
| 25                              | 2N2139 | CONE-----                           | 2 |
| 26                              | 2N2138 | CUP-----                            | 2 |
| 27                              | S1594  | BOLT-----                           | 6 |
| 28                              | 2N2147 | PLATE-----                          | 3 |
| 29                              | 2N2152 | SEAL-----                           | 1 |
| 30                              | 1B8702 | KEY-----                            | 1 |
| 31                              | 6L5151 | KEY-----                            | 2 |
| 32                              | 2K2753 | YOKE-----                           | 1 |
| 33                              | S1591  | BOLT-----                           | 2 |
|                                 | 2N2144 | SLEEVE-----                         | 1 |
|                                 | 2L8262 | RING-----                           | 1 |
|                                 | 2L8261 | PIN-----                            | 1 |
|                                 | 2N1372 | RING-----                           | 1 |
|                                 | 5L2016 | PLATE-----                          | 1 |
|                                 | 4B4713 | SPRING-----                         | 1 |
|                                 | 1N7513 | KEY-----                            | 1 |

111136

2N1373 CLUTCH ASSEMBLY--Side View  
Specification No. 33219  
Part of 2N1374 Clutch Group shown on Page 90

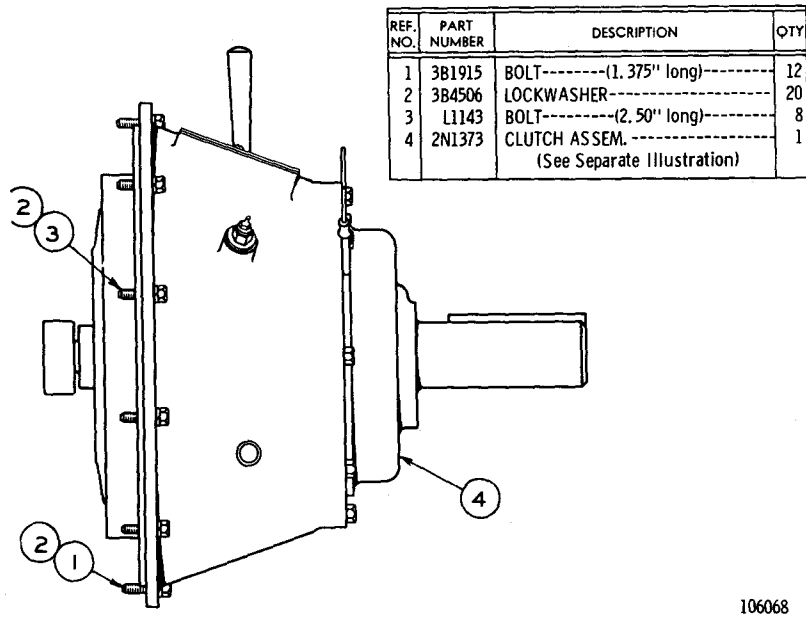
2N1373 CLUTCH ASSEMBLY—End View  
Specification No. 33219  
Part of 2N1374 Clutch Group shown on Page 90



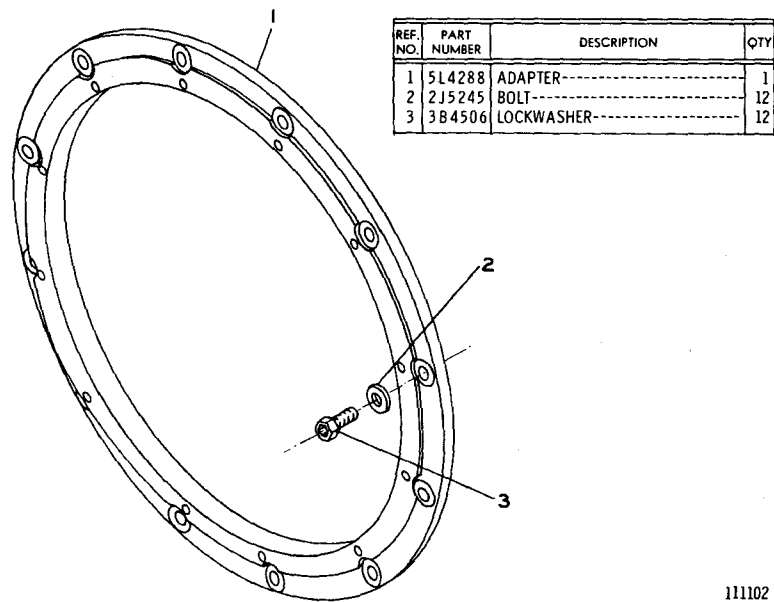
| REF. NO. | PART NUMBER | DESCRIPTION                                | QTY |
|----------|-------------|--------------------------------------------|-----|
| 1        | 2N2141      | GAUGE-----                                 | 1   |
| 2        | 3B8489      | FITTING-----                               | 1   |
| 3        | 9S1354      | NUT-----                                   | 1   |
| 4        | 6F253       | LOCKWASHER-----                            | 1   |
| 5        | 4B350       | OIL CUP-----                               | 1   |
| 6        | 1N5392      | PLATE----- (Instruction)-----              | 1   |
| 7        | 4B4755      | GASKET-----                                | 1   |
| 8        | 1L6931      | SCREW-----                                 | 2   |
| 9        | 4L4866      | KEY-----                                   | 1   |
| 10       | 3B8490      | FITTING-----                               | 1   |
| 11       | 4B4787      | LEVER ASSEM.-----                          | 1   |
| 12       | S1587       | BOLT-----<br>(Part of 4B4787 Lever Assem.) | 1   |
| 13       | 2N2137      | SHAFT-----                                 | 1   |
| 14       | 2N2143      | SLEEVE-----                                | 2   |
| 15       | 4L7248      | SEAL-----                                  | 2   |
| 16       | 7H3171      | PLUG-----                                  | 2   |
| 17       | 2B7408      | PLUG-----                                  | 1   |
| 18       | 2N2136      | HOUSING----- (Clutch)-----                 | 1   |
| 19       | 4B4756      | SHAFT-----                                 | 1   |
| 20       | 8B7121      | FITTING-----                               | 2   |
| 21       | S1587       | BOLT-----                                  | 8   |
| 22       | 2N2140      | CARRIER ASSEM.-----                        | 1   |
| 23       | 2N4527      | TUBE-----<br>(Part of 2N2140 Assem.)       | 1   |

111142

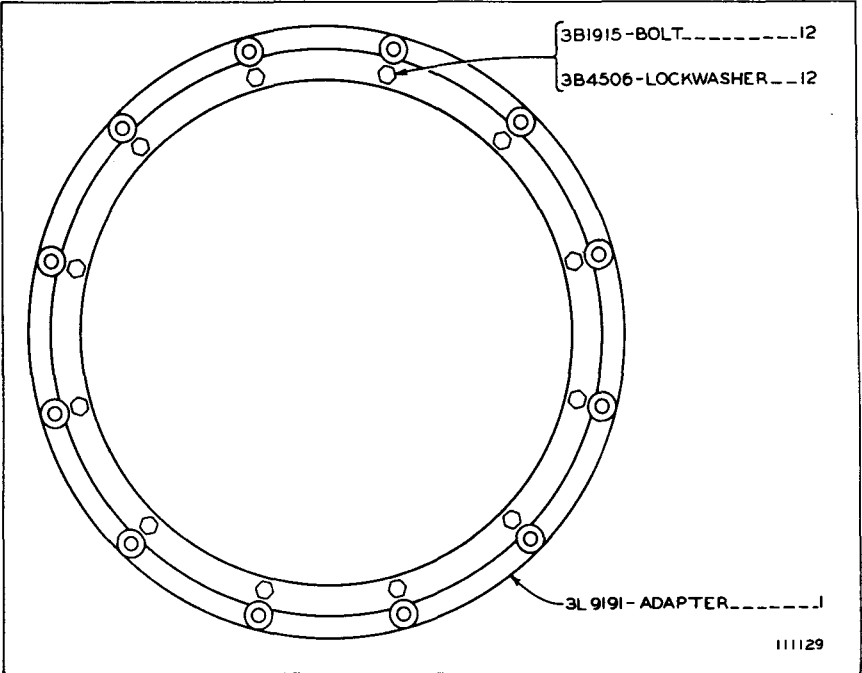
# CATERPILLAR 3145 ENGINE



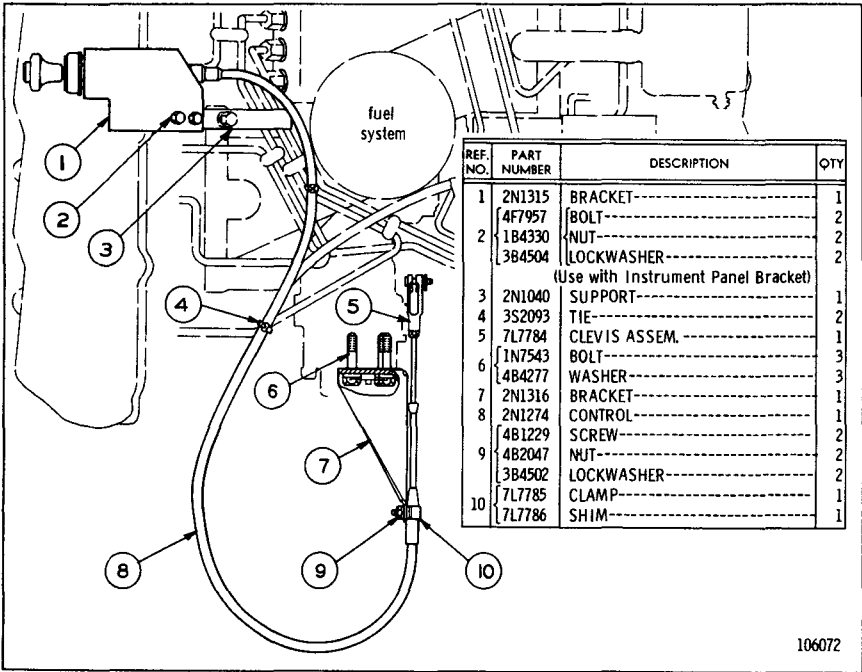
**2N1374 CLUTCH GROUP**  
 FOR USE WITH S.A.E. NO. 2 FLYWHEEL HOUSING  
 2N1373 Clutch parts are shown on Pages 88 and 89



**2N4968 ADAPTER GROUP**  
 Provides a .562" thick S.A.E. No. 2 to S.A.E. No. 3  
 Flywheel Housing Adapter to bolt to aluminum flywheel housing



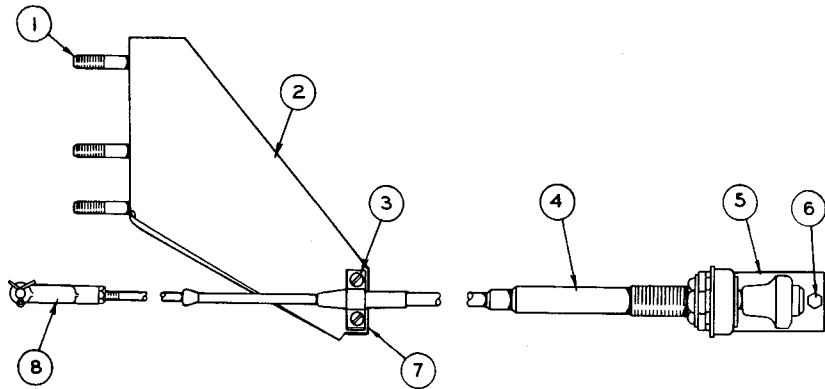
2N4969 ADAPTER GROUP  
Provides a 1" thick S.A.E. No. 2 to S.A.E. No. 3  
Flywheel Housing Adapter to bolt to aluminum flywheel housing



2N1317 GOVERNOR CONTROL GROUP

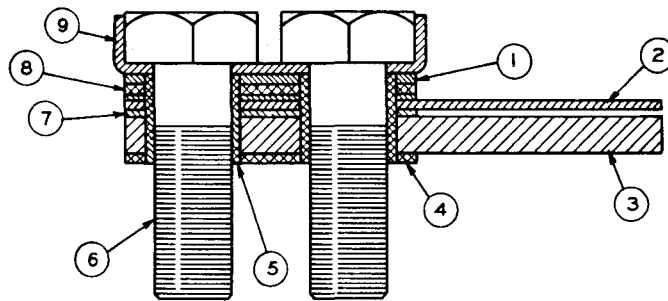
| REF. NO. | PART NUMBER | DESCRIPTION     | QTY |
|----------|-------------|-----------------|-----|
| 1        | 1N7543      | BOLT-----       | 3   |
|          | 4B4277      | WASHER-----     | 3   |
| 2        | 2N1316      | BRACKET-----    | 1   |
|          | 4B1229      | SCREW-----      | 2   |
| 3        | 4B2047      | NUT-----        | 2   |
|          | 3B4502      | LOCKWASHER----- | 2   |
| 4        | 1N7904      | CONTROL-----    | 1   |

| REF. NO. | PART NUMBER | DESCRIPTION        | QTY |
|----------|-------------|--------------------|-----|
| 5        | 2N2112      | BRACKET-----       | 1   |
| 6        | 2A762       | BOLT-----          | 2   |
|          | 3B4504      | LOCKWASHER-----    | 2   |
| 7        | 7L7785      | CLAMP-----         | 1   |
|          | 7L7786      | SHIM-----          | 1   |
| 8        | 7L7784      | CLEVIS ASSEM.----- | 1   |



106674

2N2111 GOVERNOR CONTROL GROUP  
FOR USE WITH DIESEL ELECTRIC SETS  
Only separate parts serviced

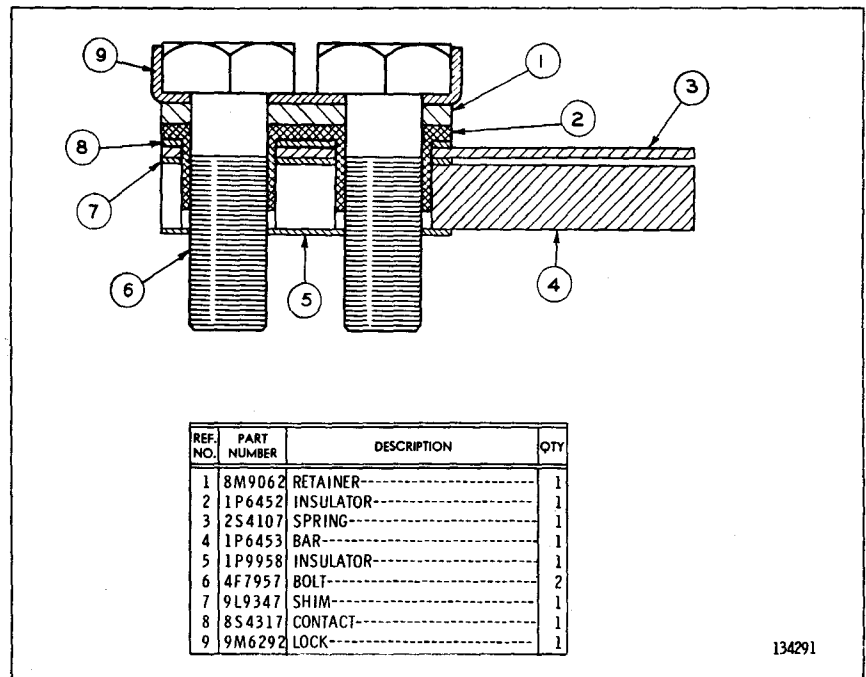


| REF. NO. | PART NUMBER | DESCRIPTION    | QTY |
|----------|-------------|----------------|-----|
| 1        | 9L7235      | SHIM-----      | 1   |
| 2        | 2S4107      | SPRING-----    | 1   |
| 3        | 2S7391      | BAR-----       | 1   |
| 4        | 2S7390      | INSULATOR----- | 2   |
| 5        | 3S594       | INSULATOR----- | 2   |
| 6        | S1615       | BOLT-----      | 2   |
| 7        | 9L9347      | SPACER-----    | 1   |
| 8        | 8S4317      | CONTACT-----   | 1   |
| 9        | 9M6292      | LOCK-----      | 1   |

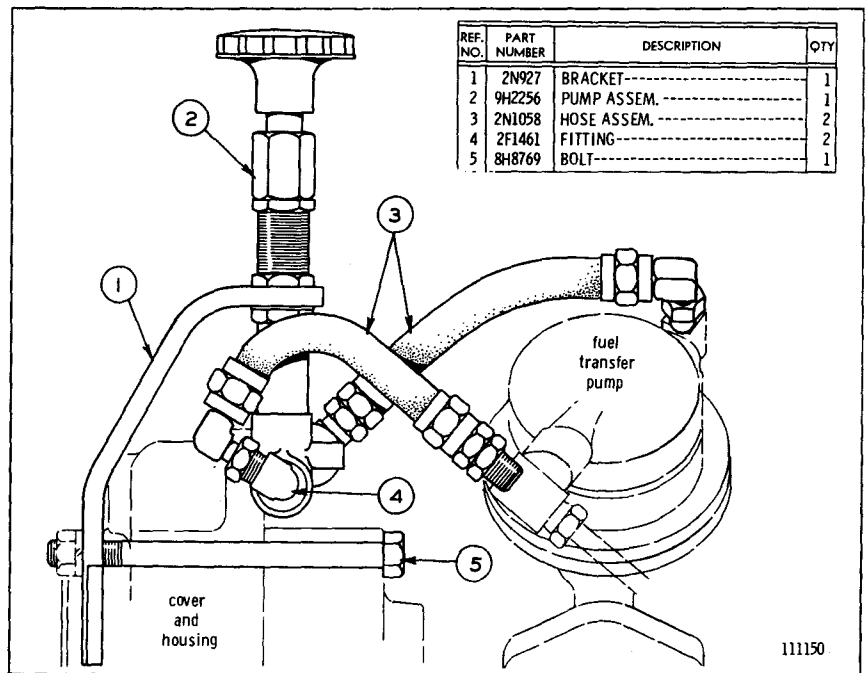
111097

9L9345 GOVERNOR TORQUE SPRING GROUP—Type 1

ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS



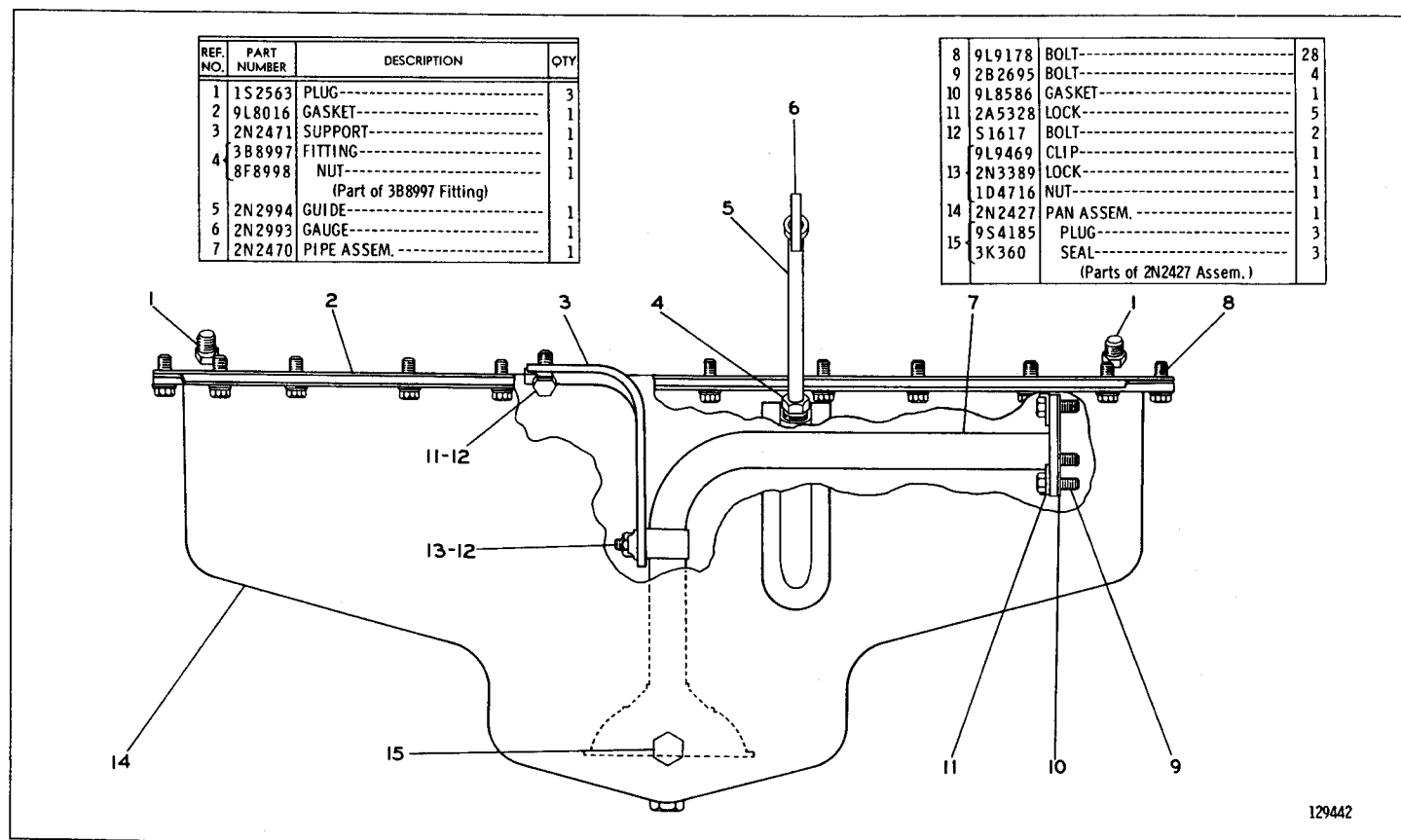
9L9345 GOVERNOR TORQUE SPRING GROUP-Type 2



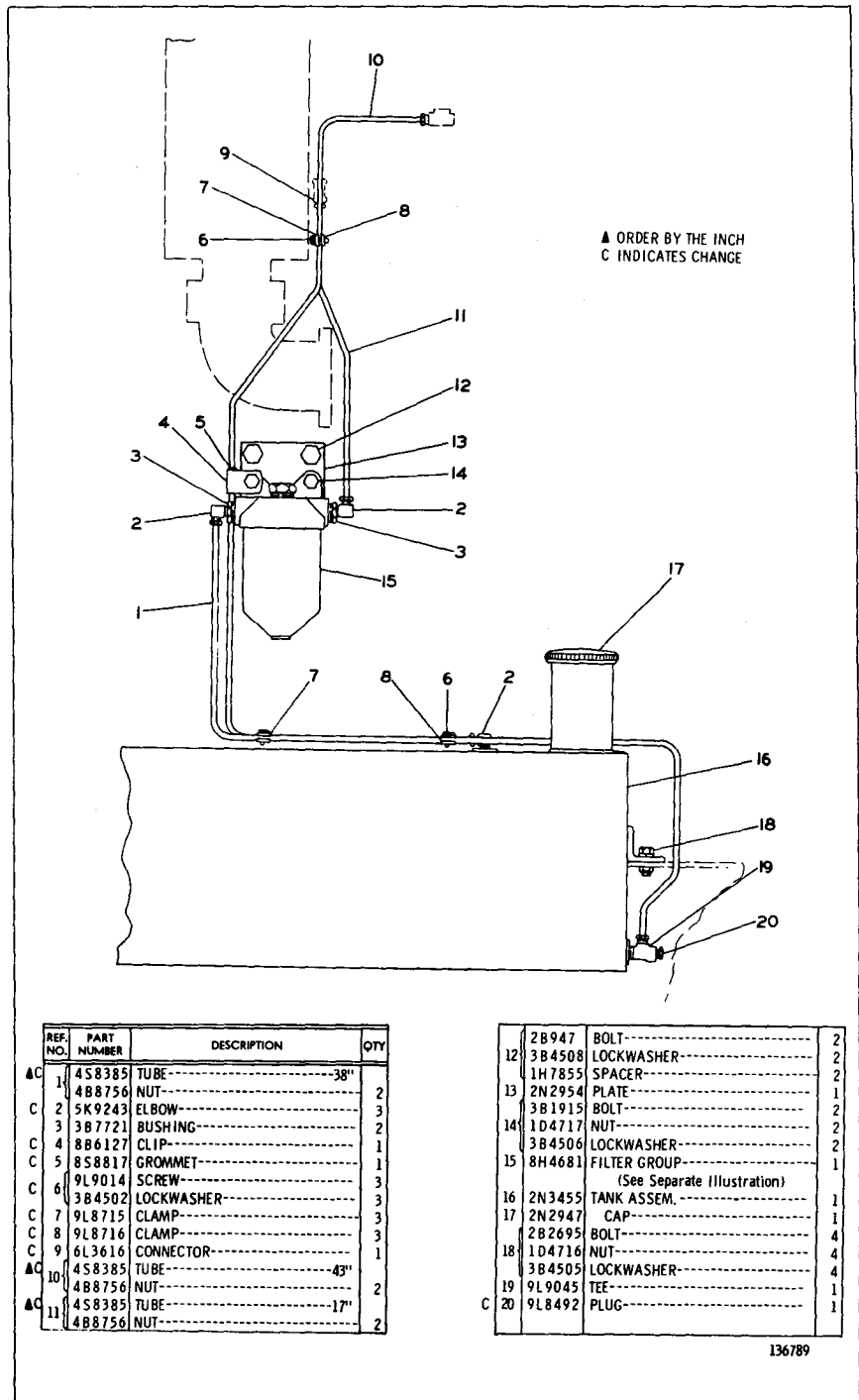
2N1057 FUEL PRIMING PUMP AND LINES GROUP

ONLY "CATERPILLAR" PARTS GIVE "CATERPILLAR" PERFORMANCE

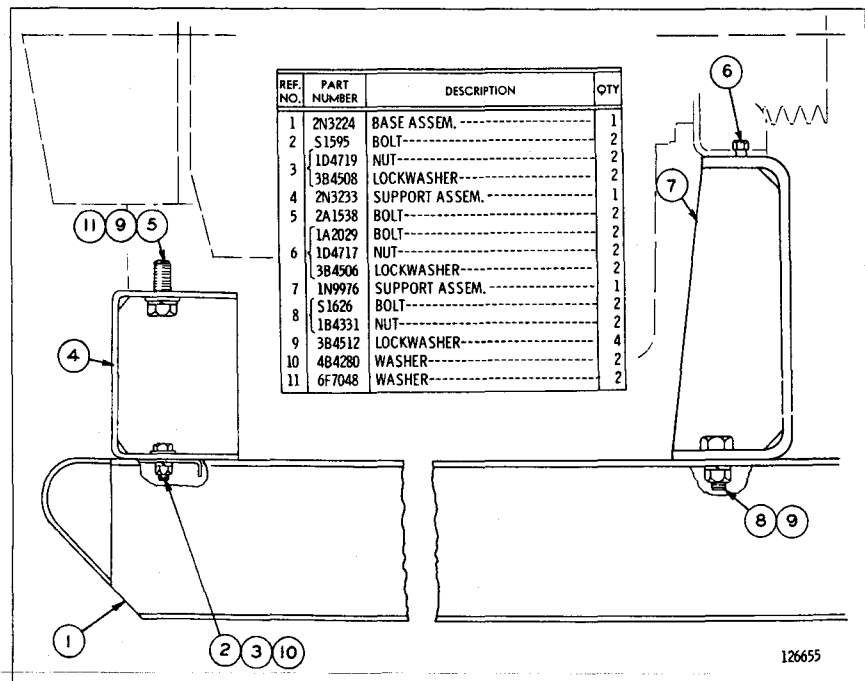
ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS



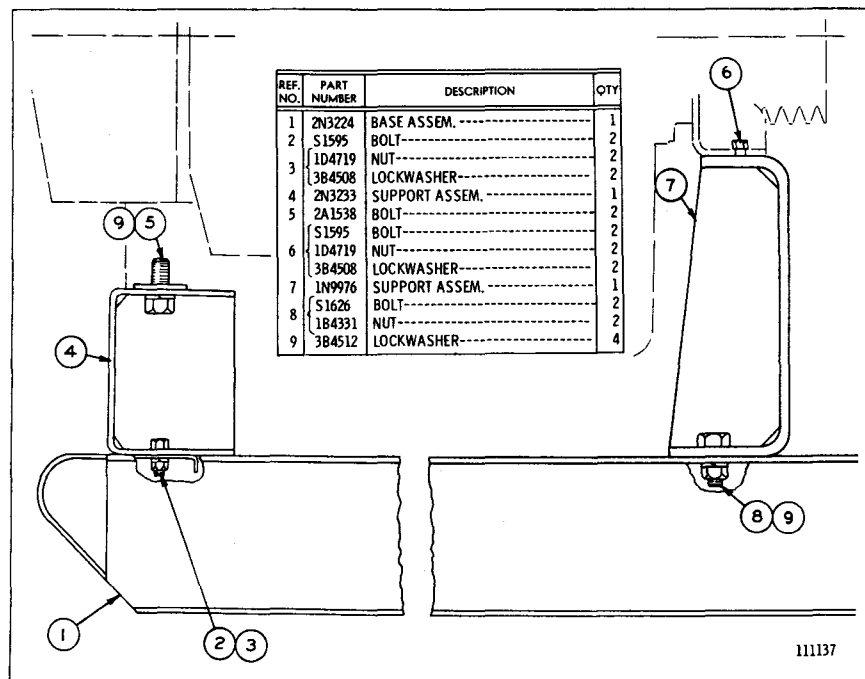
2N3388 OIL PAN GROUP—Deep Sump  
FOR MOUNTING A 30° TILT CENTER SUMP OIL PUMP



2N3435 FUEL TANK GROUP--50 U.S. Gallon  
FOR USE WITH 2N2101 BASE GROUP AND DIESEL ELECTRIC SETS  
8H4681 Filter parts are shown on Page 52

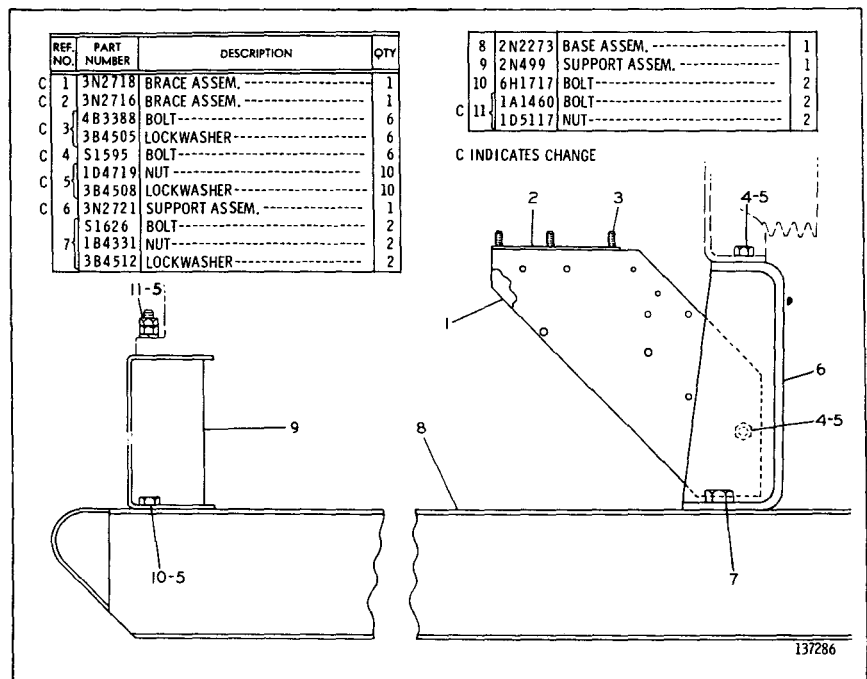


2N3842 BASE GROUP-Type 1

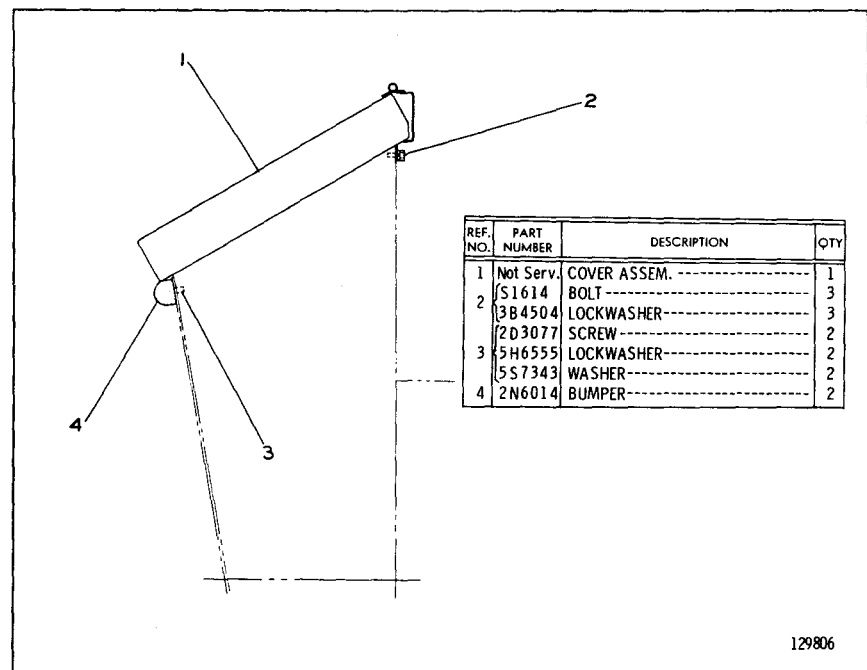


2N3842 BASE GROUP-Type 2

ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS

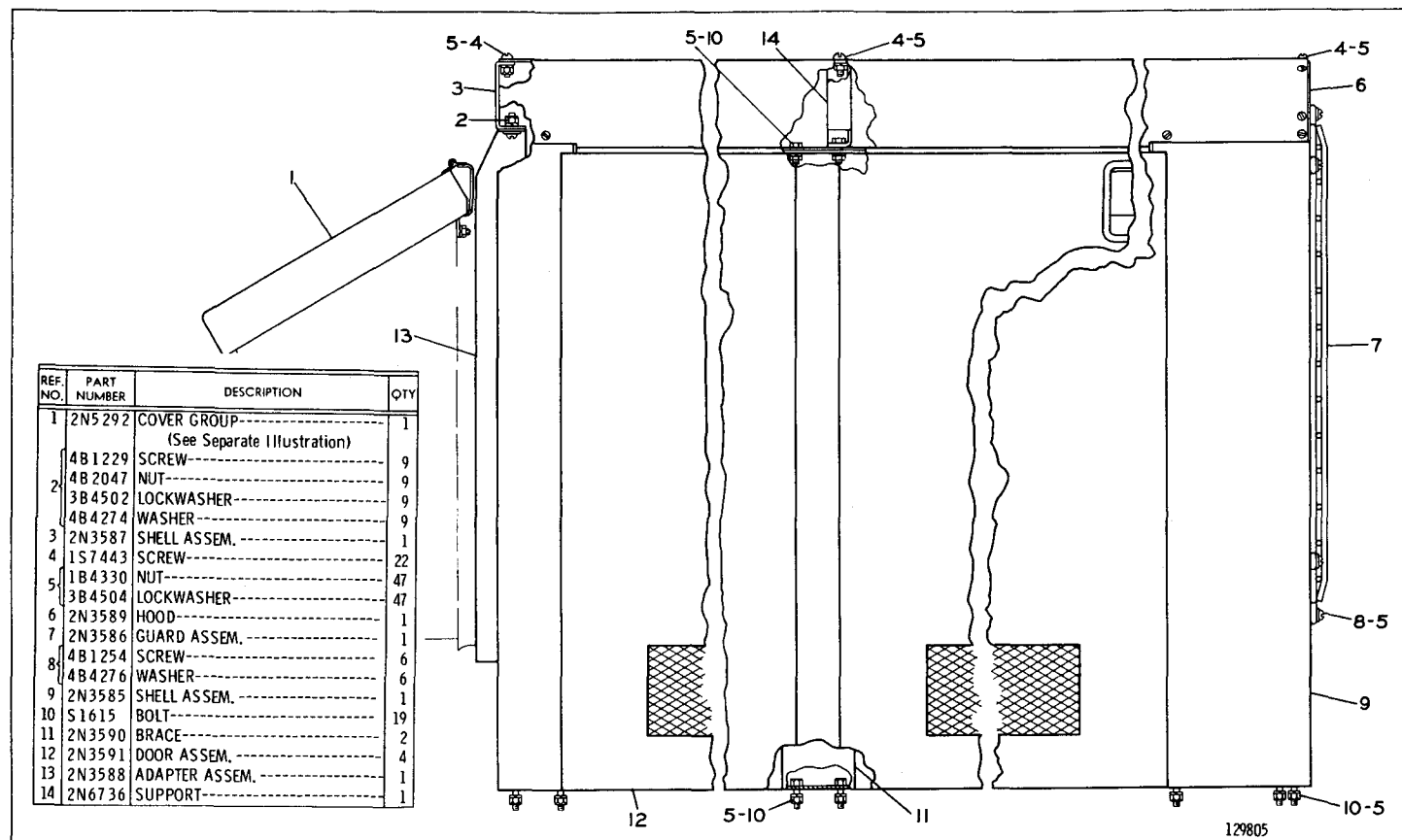


2N2101 BASE GROUP--Factory Installation  
FOR USE WITH DIESEL ELECTRIC SETS

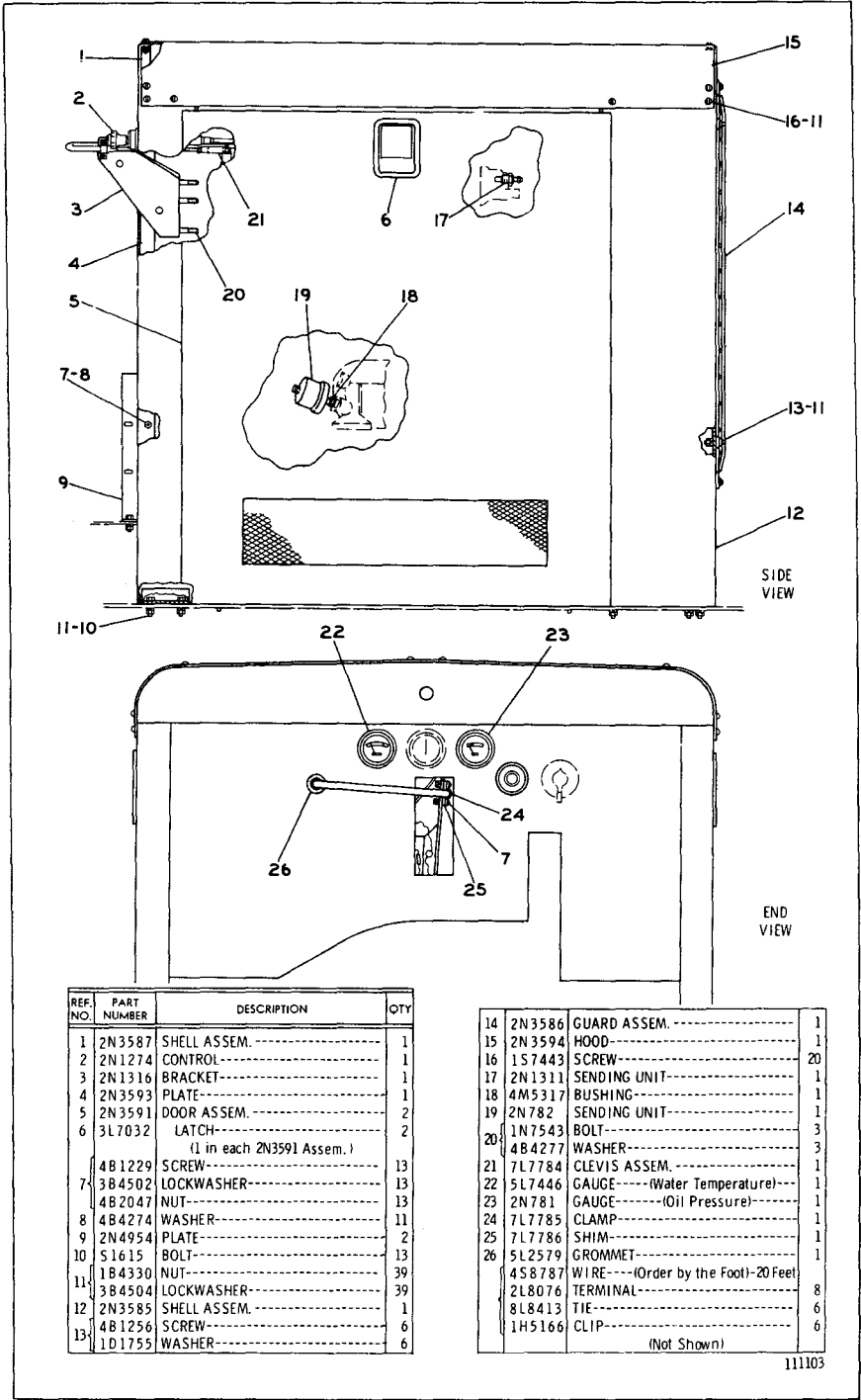


2N5292 INSTRUMENT PANEL COVER GROUP  
Part of 2N3592 Engine Enclosure Group shown on Page 98

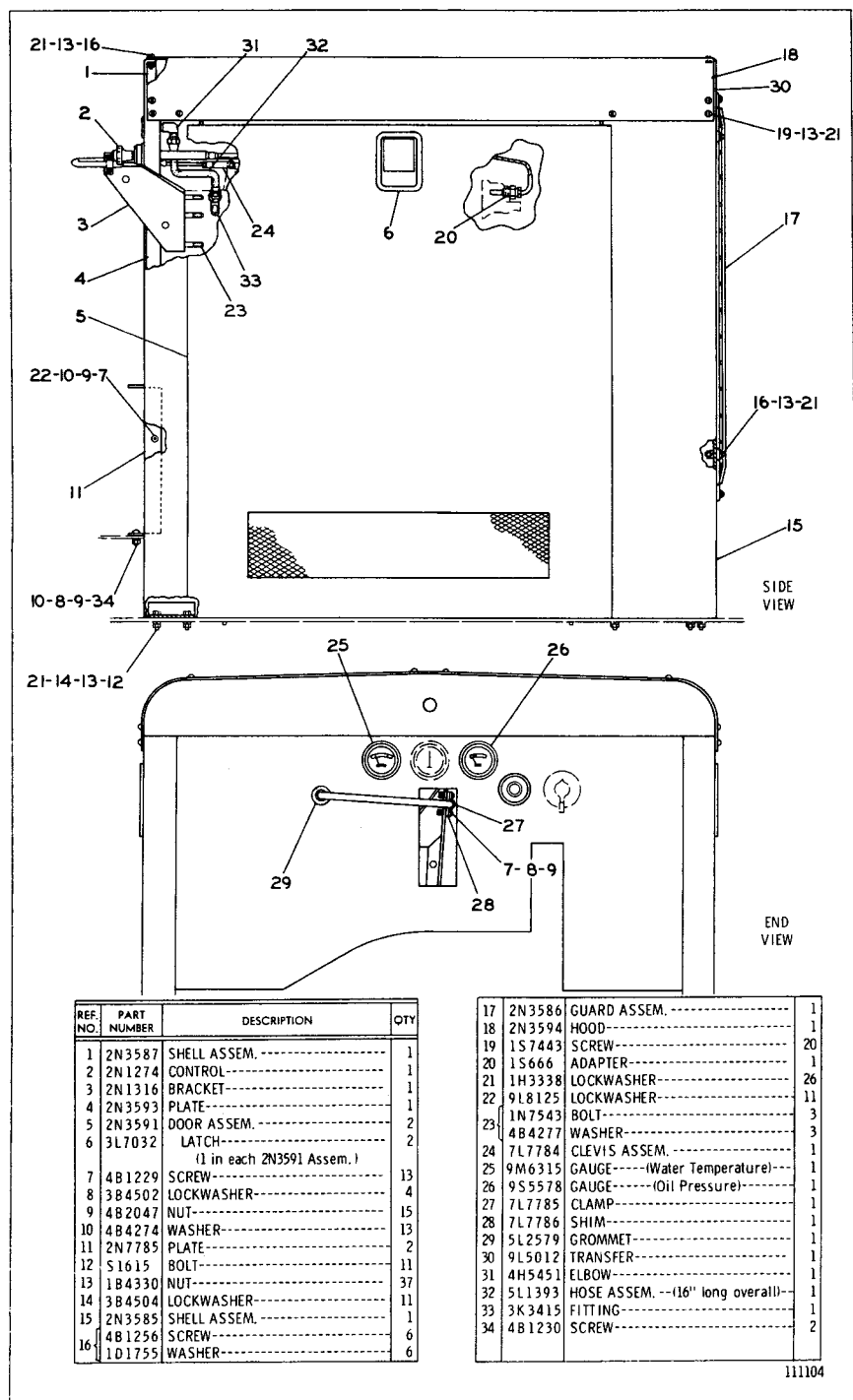
ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS



2N3592 ENGINE ENCLOSURE GROUP  
FOR USE WITH 2N1646 MUFFLER GROUP AND 2N2101 BASE GROUPS SHOWN ON PAGES 74 and 97  
2N5292 Cover parts are shown on Page 97



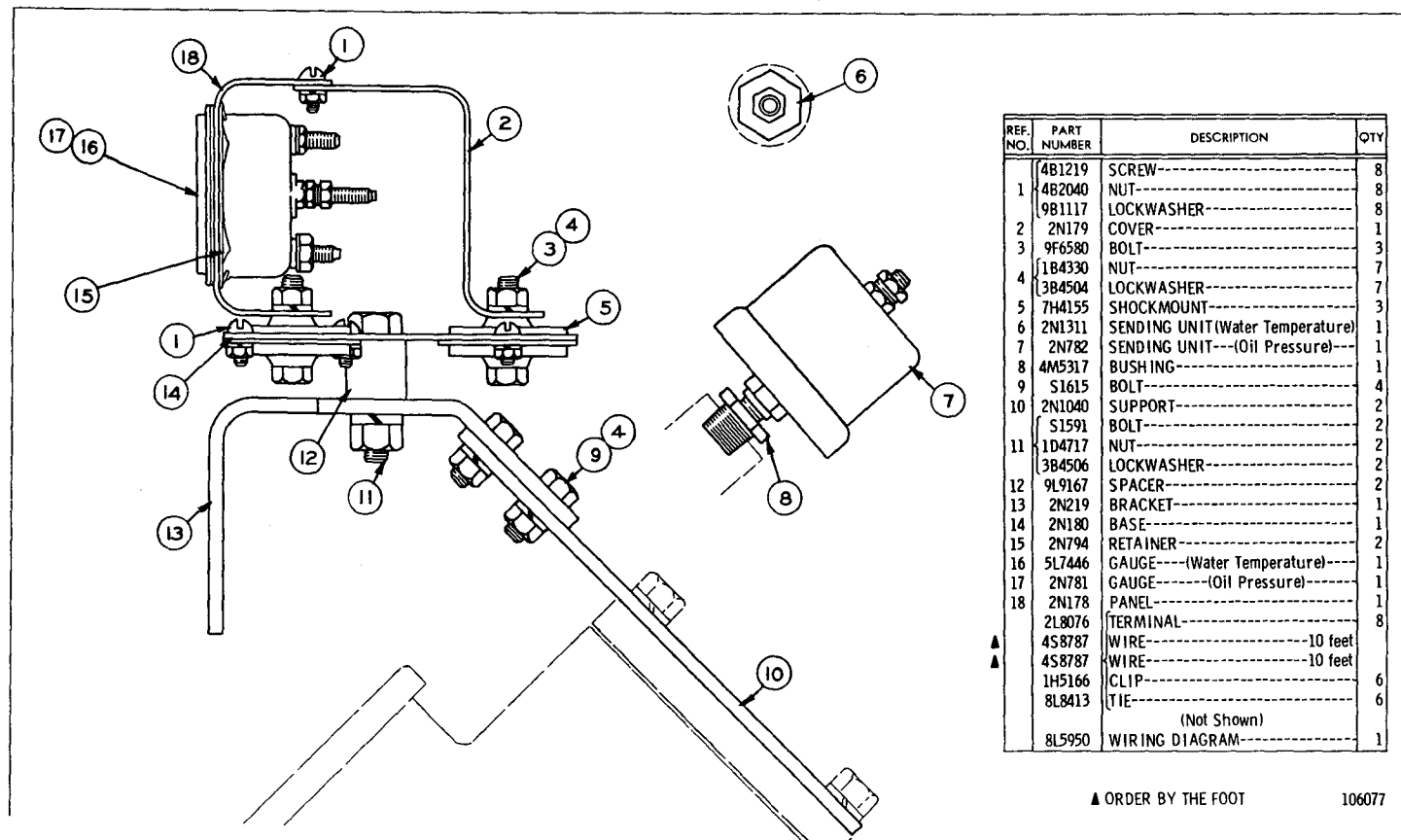
2N3595 ENGINE ENCLOSURE GROUP-Type 1



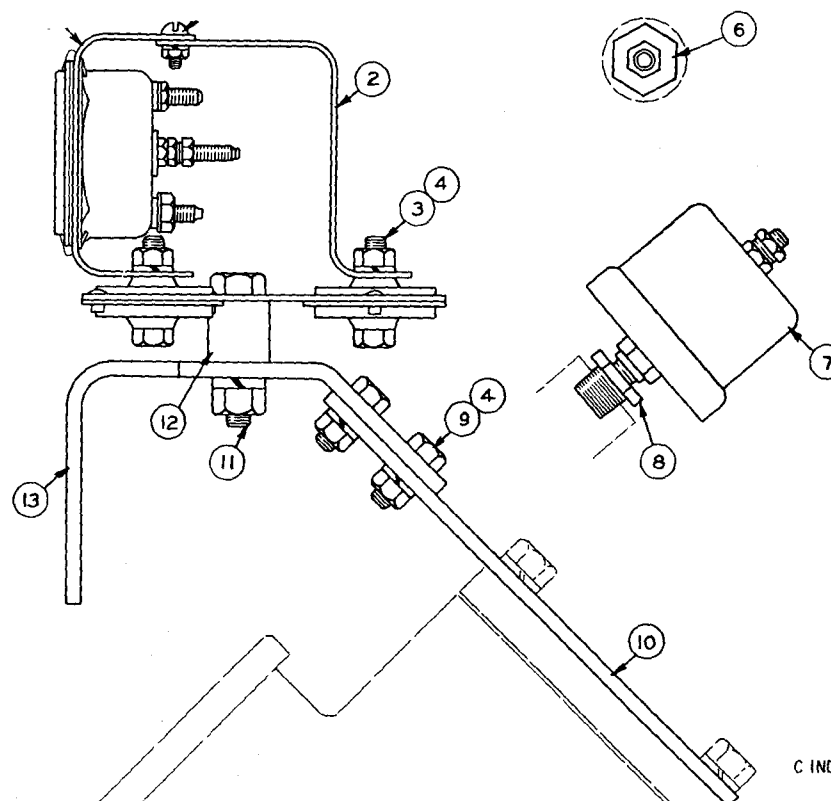
2N3595 ENGINE ENCLOSURE GROUP-Type 2

ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS

2N920 INSTRUMENT PANEL GROUP-Type 1  
FOR MOUNTING OPPOSITE POSITIVE CRANKCASE VENTILATION VALVE  
Note: 2N3909 Tachometer Drive Adapter is available



AYS GIVE CRANKCASE VENTILATION VALVE



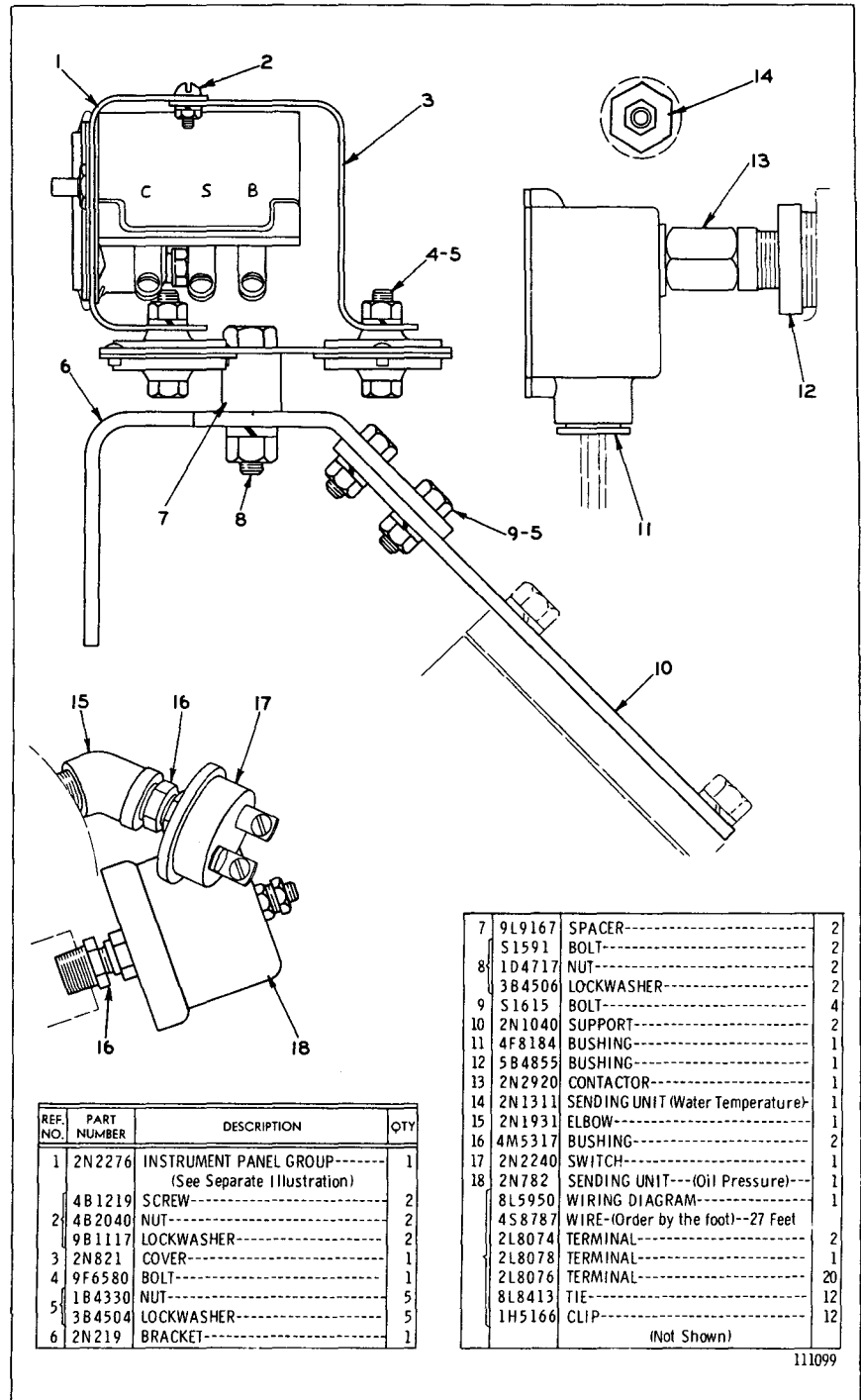
| REF. NO. | PART NUMBER | DESCRIPTION                                                | QTY |
|----------|-------------|------------------------------------------------------------|-----|
| C 1      | 4B1219      | SCREW-----                                                 | 2   |
| C 1      | 4B2040      | NUT-----                                                   | 2   |
| C 1      | 9B1117      | LOCKWASHER-----                                            | 2   |
| 2        | 2N179       | COVER-----                                                 | 1   |
| C 3      | 9F6580      | BOLT-----                                                  | 1   |
| C 4      | 1B4330      | NUT-----                                                   | 5   |
| C 4      | 3B4504      | LOCKWASHER-----                                            | 5   |
| C 5      | 2N2275      | INSTRUMENT PANEL GROUP-----<br>(See Separate Illustration) | 1   |
| 6        | 2N1311      | SENDING UNIT (Water Temperature)-----                      | 1   |
| 7        | 2N782       | SENDING UNIT (Oil Pressure)-----                           | 1   |
| 8        | 4M5317      | BUSHING-----                                               | 1   |
| 9        | S1615       | BOLT-----                                                  | 4   |
| 10       | 2N1040      | SUPPORT-----                                               | 2   |
| 11       | S1591       | BOLT-----                                                  | 2   |
| 11       | 1D4717      | NUT-----                                                   | 2   |
| 12       | 3B4506      | LOCKWASHER-----                                            | 2   |
| 12       | 9L9167      | SPACER-----                                                | 2   |
| 13       | 2N219       | BRACKET-----                                               | 1   |
|          | 2L8076      | TERMINAL-----                                              | 8   |
|          | 4S8787      | WIRE----- (order by foot) - 20 Feet                        |     |
|          | 1H5166      | CLIP-----                                                  | 6   |
|          | 8L8413      | TIE-----                                                   | 6   |
|          |             | (Not Shown)                                                |     |
|          | 8L5950      | WIRING DIAGRAM-----                                        | 1   |

C INDICATES CHANGE FROM PREVIOUS TYPE

129527

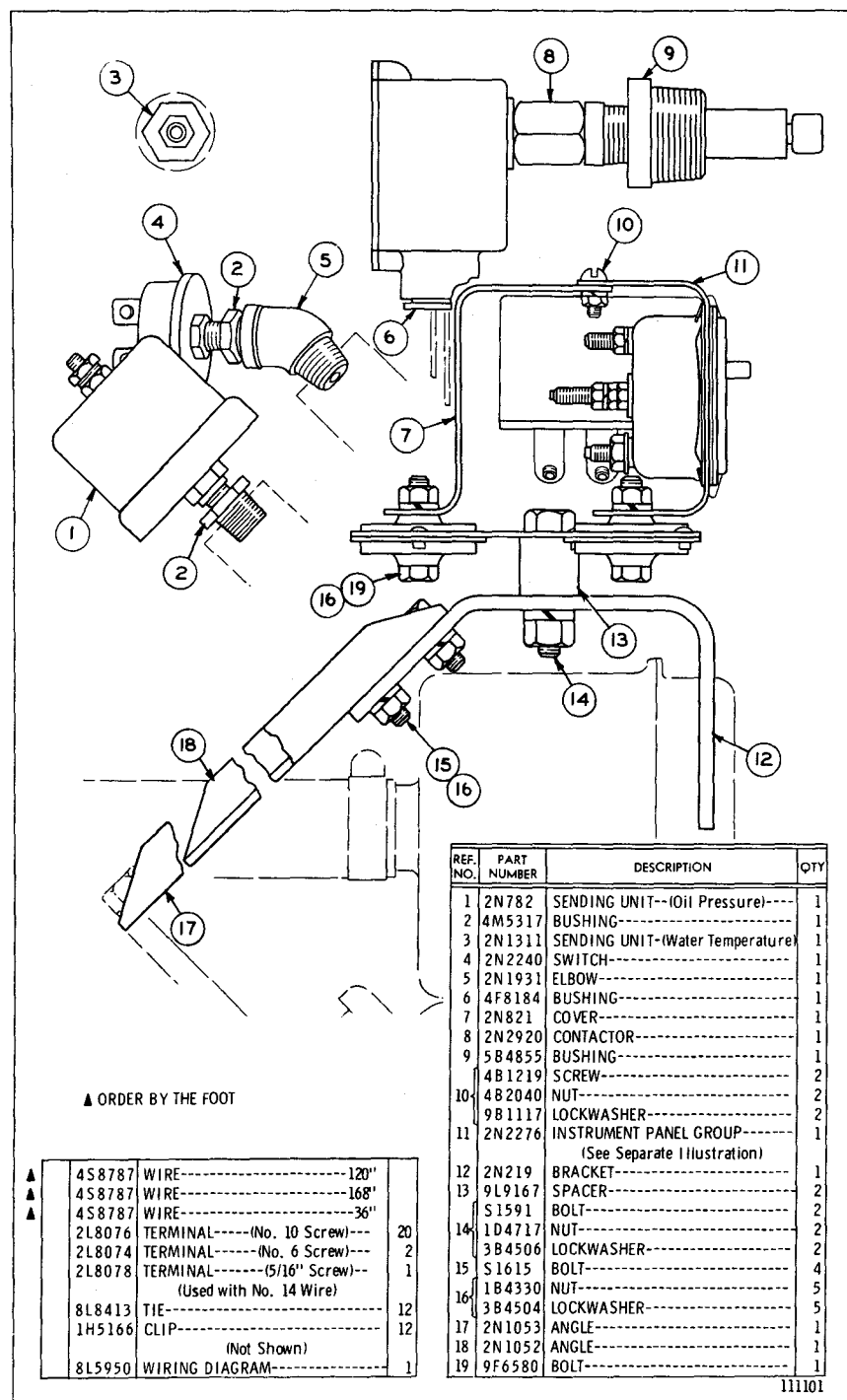
2N920 INSTRUMENT PANEL GROUP-Type 2  
FOR MOUNTING OPPOSITE POSITIVE CRANKCASE VENTILATION VALVE  
2N2275 Panel parts are shown on Page 107. Note: 2N3909 Tachometer Drive Adapter is available

CRANKCASE VENTILATION VALVE



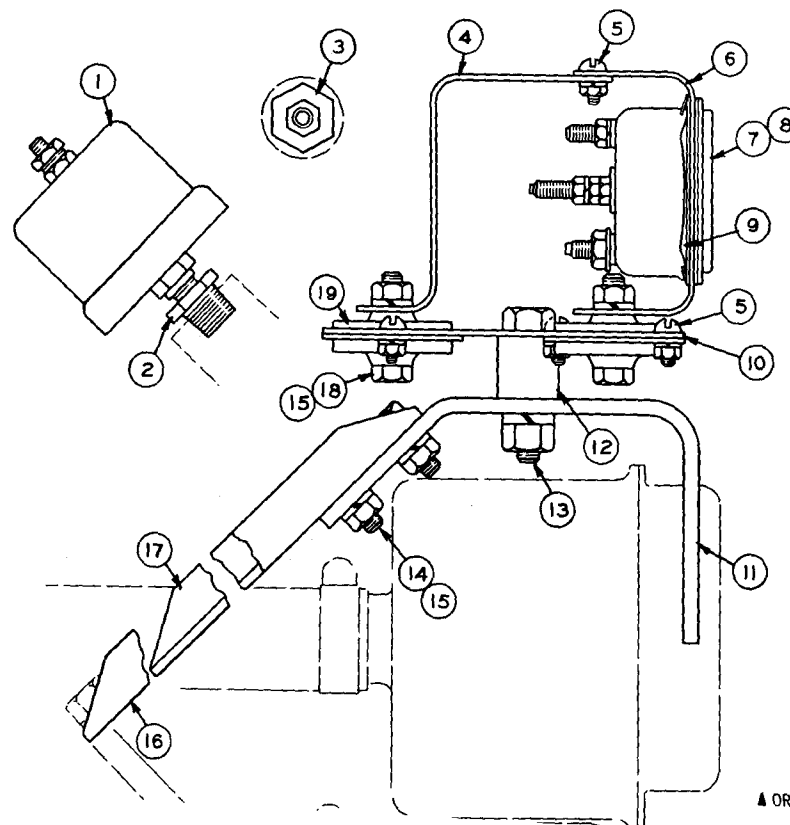
111099

2N2277 INSTRUMENT PANEL GROUP  
 FOR MOUNTING OPPOSITE POSITIVE CRANKCASE VENTILATION VALVE  
 2N2276 Panel parts are shown on Page 107  
 Note: 2N3909 Tachometer Drive Adapter is available



2N2278 INSTRUMENT PANEL GROUP  
 FOR MOUNTING WITH POSITIVE CRANKCASE VENTILATION VALVE  
 2N2276 Panel Parts are shown on Page 107  
 Note: 2N3909 Tachometer Drive Adapter is available  
 ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS

2N1054 INSTRUMENT PANEL GROUP--Type 1  
FOR MOUNTING WITH POSITIVE CRANKCASE VENTILATION VALVE  
Note: 2N3909 Tachometer Drive Adapter is available



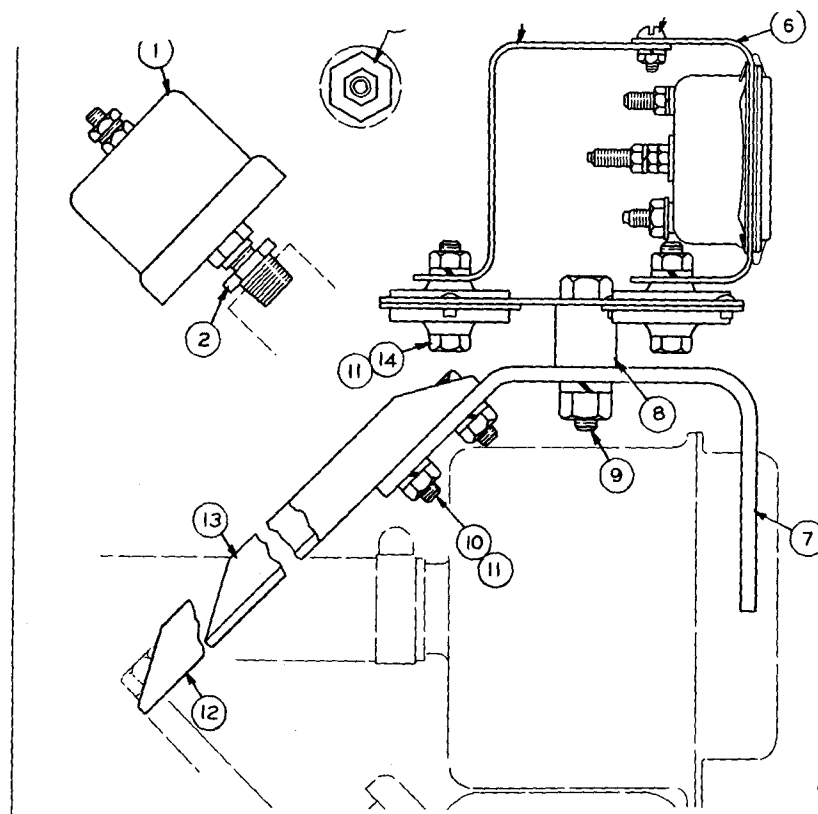
| REF. NO. | PART NUMBER | DESCRIPTION                       | QTY |
|----------|-------------|-----------------------------------|-----|
| 1        | 2N782       | SENDING UNIT---(Oil Pressure)---  | 1   |
| 2        | 4M5317      | BUSHING-----                      | 1   |
| 3        | 2N1311      | SENDING UNIT(Water Temperature)   | 1   |
| 4        | 2N179       | COVER-----                        | 1   |
|          | 4B1219      | SCREW-----                        | 8   |
| 5        | 4B2040      | NUT-----                          | 8   |
|          | 9B1117      | LOCKWASHER-----                   | 8   |
| 6        | 2N178       | PANEL-----                        | 1   |
| 7        | 2N781       | GAUGE----- (Oil Pressure)---      | 1   |
| 8        | 5L7446      | GAUGE----- (Water Temperature)--- | 1   |
| 9        | 2N794       | RETAINER-----                     | 2   |
| 10       | 2N180       | BASE-----                         | 1   |
| 11       | 2N219       | BRACKET-----                      | 1   |
| 12       | 9L9167      | SPACER-----                       | 2   |
|          | S1591       | BOLT-----                         | 2   |
| 13       | 104717      | NUT-----                          | 2   |
|          | 3B4506      | LOCKWASHER-----                   | 2   |
| 14       | S1615       | BOLT-----                         | 4   |
|          | 1B4330      | NUT-----                          | 7   |
| 15       | 3B4504      | LOCKWASHER-----                   | 7   |
| 16       | 2N1053      | ANGLE-----                        | 1   |
| 17       | 2N1052      | ANGLE-----                        | 1   |
| 18       | 9F6580      | BOLT-----                         | 3   |
| 19       | 7H4155      | SHOCKMOUNT-----                   | 3   |
|          | 2L8076      | TERMINAL-----                     | 8   |
|          | 4S8787      | WIRE-----10 feet                  |     |
|          | 4S8787      | WIRE-----10 feet                  |     |
|          | 8L8413      | TIE-----                          | 6   |
|          | 1H5166      | CLIP-----                         | 6   |
|          |             | (Not Shown)                       |     |
|          | 8L5950      | WIRING DIAGRAM-----               | 1   |

▲ ORDER BY THE FOOT

106078

ATTACHMENTS

THIS GIVE SERIAL NUMBER



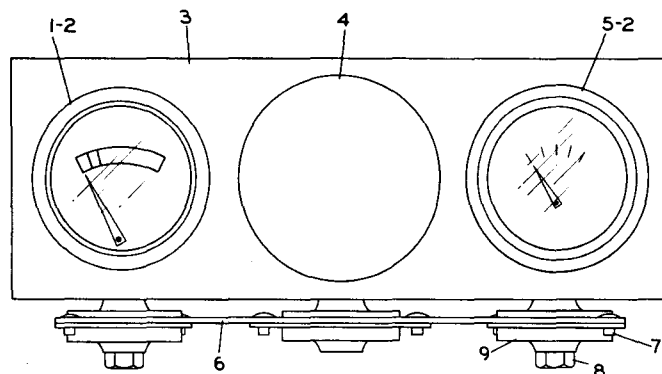
| REF. NO. | PART NUMBER | DESCRIPTION                                                | QTY |
|----------|-------------|------------------------------------------------------------|-----|
| 1        | 2N782       | SENDING UNIT---(Oil Pressure)---                           | 1   |
| 2        | 4M5317      | BUSHING-----                                               | 1   |
| 3        | 2N1311      | SENDING UNIT (Water Temperature)                           | 1   |
| 4        | 2N179       | COVER-----                                                 | 1   |
|          | 4B1219      | SCREW-----                                                 | 2   |
| C 5      | 4B2040      | NUT-----                                                   | 2   |
|          | 9B1117      | LOCKWASHER-----                                            | 2   |
| C 6      | 2N2275      | INSTRUMENT PANEL GROUP-----<br>(See Separate Illustration) | 1   |
| C 7      | 2N219       | BRACKET-----                                               | 1   |
| C 8      | 9L9167      | SPACER-----                                                | 2   |
|          | S1591       | BOLT-----                                                  | 2   |
| C 9      | 1D4717      | NUT-----                                                   | 2   |
|          | 3B4506      | LOCKWASHER-----                                            | 2   |
| C 10     | S1615       | BOLT-----                                                  | 4   |
| C 11     | 1B4330      | NUT-----                                                   | 5   |
|          | 3B4504      | LOCKWASHER-----                                            | 5   |
| C 12     | 2N1053      | ANGLE-----                                                 | 1   |
| C 13     | 2N1052      | ANGLE-----                                                 | 1   |
| C 14     | 9F6580      | BOLT-----                                                  | 1   |
|          | 2L8076      | TERMINAL-----                                              | 8   |
|          | 4S8787      | WIRE-----10 feet                                           |     |
|          | 4S8787      | WIRE-----10 feet                                           |     |
|          | 8L8413      | TIE-----                                                   | 6   |
|          | 1H5166      | CLIP-----                                                  | 6   |
|          |             | (Not Shown)                                                |     |
|          | 8L5950      | WIRING DIAGRAM-----                                        | 1   |

C INDICATES CHANGE FROM PREVIOUS TYPE

129528

2N1054 INSTRUMENT PANEL GROUP--Type 2  
FOR MOUNTING WITH POSITIVE CRANKCASE VENTILATION VALVE  
Note: 2N3909 Tachometer Drive Adapter is available

VENTILATOR 3145 ENGINE

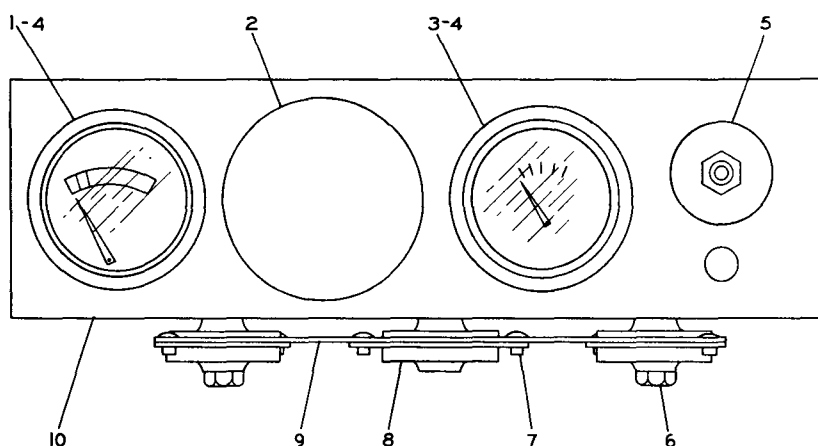


| REF. NO. | PART NUMBER | DESCRIPTION                       | QTY |
|----------|-------------|-----------------------------------|-----|
| 1        | 2N781       | GAUGE----- (Oil Pressure)-----    | 1   |
| 2        | 2N794       | RETAINER-----                     | 2   |
| 3        | 2N178       | PANEL-----                        | 1   |
| 4        | 1L6561      | BUTTON-----                       | 1   |
| 5        | 5L7446      | GAUGE---- (Water Temperature)---- | 1   |
| 6        | 2N180       | BASE-----                         | 1   |

| REF. NO. | PART NUMBER | DESCRIPTION     | QTY |
|----------|-------------|-----------------|-----|
| 7        | 2N2258      | RIVET-----      | 6   |
| 8        | 9F6580      | BOLT-----       | 2   |
| 9        | 1B4330      | NUT-----        | 2   |
|          | 3B4504      | LOCKWASHER----- | 2   |
|          | 7H4155      | SHOCKMOUNT----- | 3   |

129526

**2N2275 INSTRUMENT PANEL GROUP**  
Part of 2N920 and 2N1054 Instrument Panel Groups shown on  
Pages 102 and 106



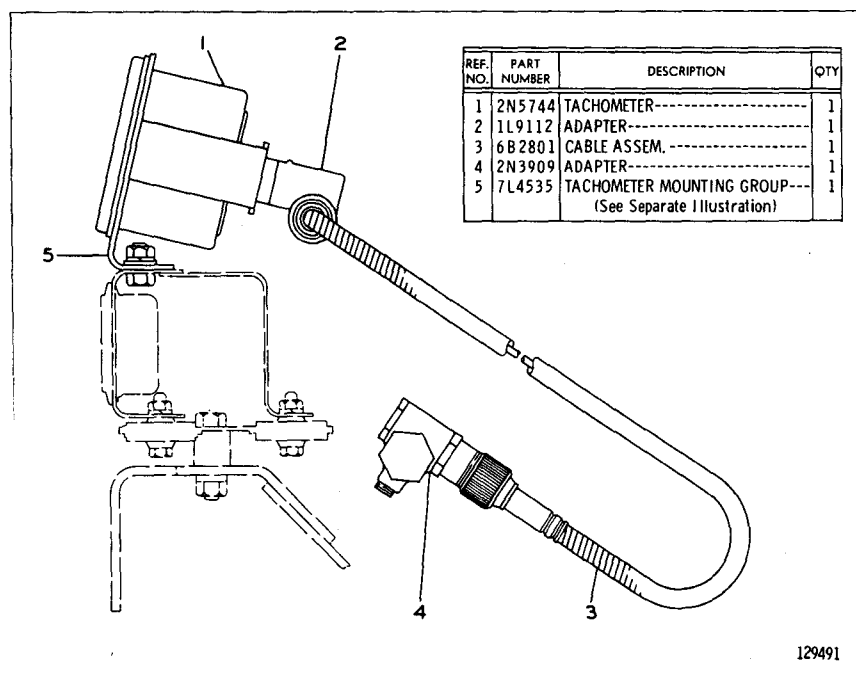
| REF. NO. | PART NUMBER | DESCRIPTION                       | QTY |
|----------|-------------|-----------------------------------|-----|
| 1        | 2N781       | GAUGE----- (Oil Pressure)-----    | 1   |
| 2        | 1L6561      | BUTTON-----                       | 1   |
| 3        | 5L7446      | GAUGE---- (Water Temperature)---- | 1   |
| 4        | 2N794       | RETAINER-----                     | 2   |
| 5        | 2N1972      | SWITCH----- (Magnetic)-----       | 1   |

|    |        |                  |   |
|----|--------|------------------|---|
| 6  | 9F6580 | BOLT-----        | 2 |
|    | 1B4330 | NUT-----         | 2 |
|    | 3B4504 | LOCKWASHER-----  | 2 |
| 7  | 2N2258 | RIVET-----       | 6 |
| 8  | 7H4155 | SHOCK MOUNT----- | 3 |
| 9  | 2N180  | BASE-----        | 1 |
| 10 | 2N815  | PANEL-----       | 1 |

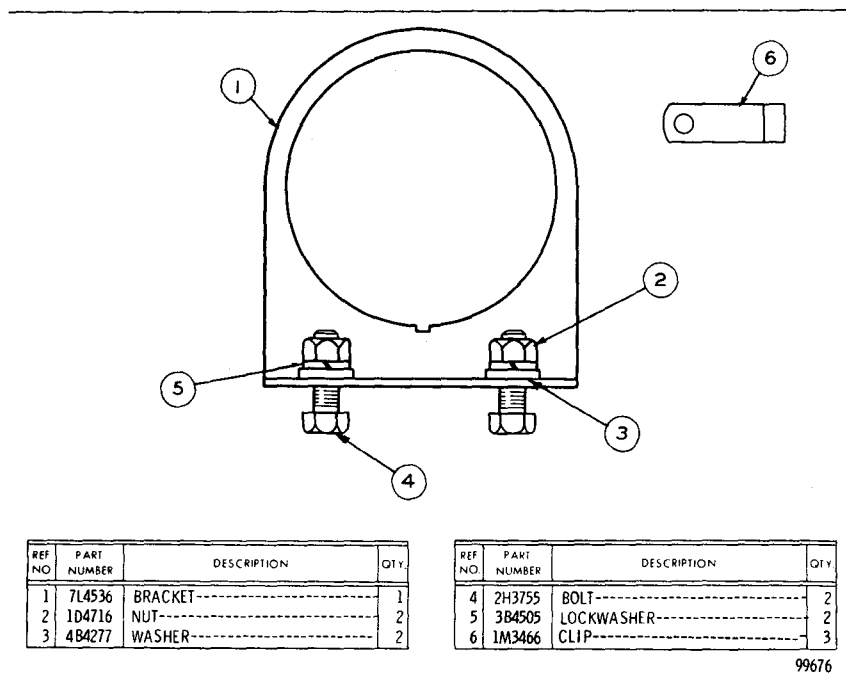
111100

**2N2276 INSTRUMENT PANEL GROUP**  
Part of 2N2277 and 2N2278 Instrument Panel Groups shown on  
Pages 103 and 104

ONLY "CATERPILLAR" PARTS GIVE "CATERPILLAR" PERFORMANCE

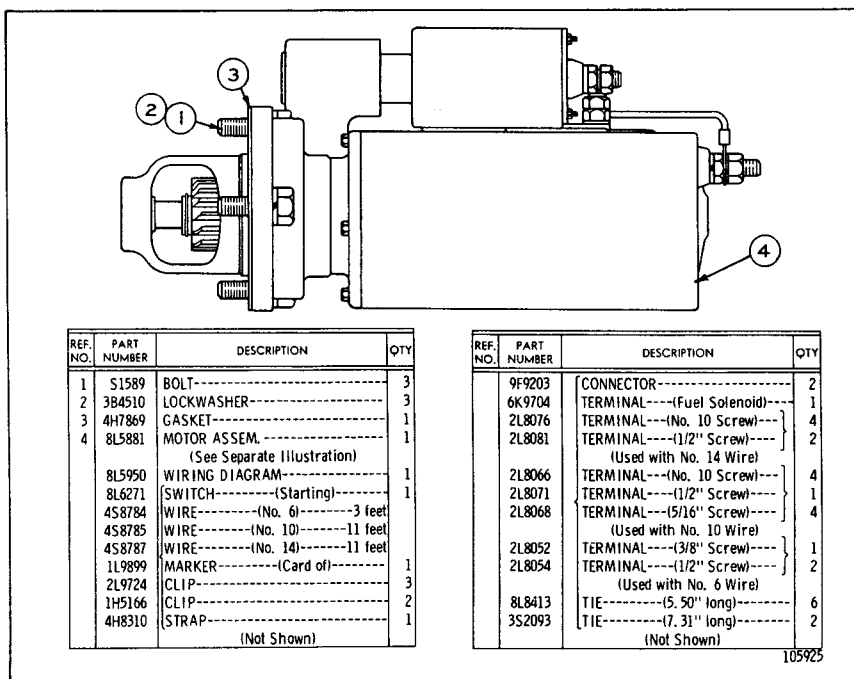


2N5745 TACHOMETER DRIVE AND MOUNTING GROUP

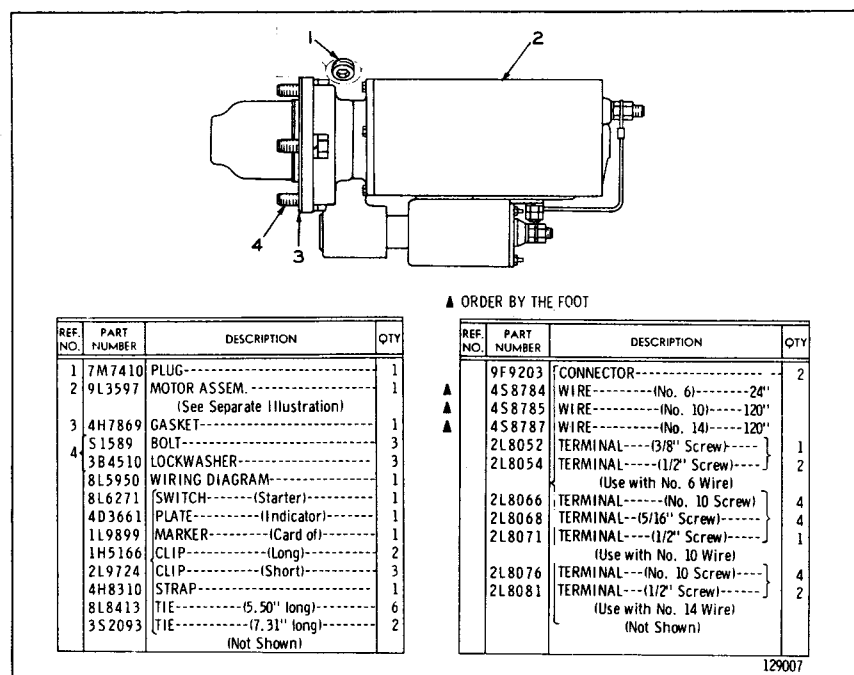


7L4535 TACHOMETER MOUNTING GROUP  
Part of 2N5745 Tachometer Drive and Mounting Group

ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS



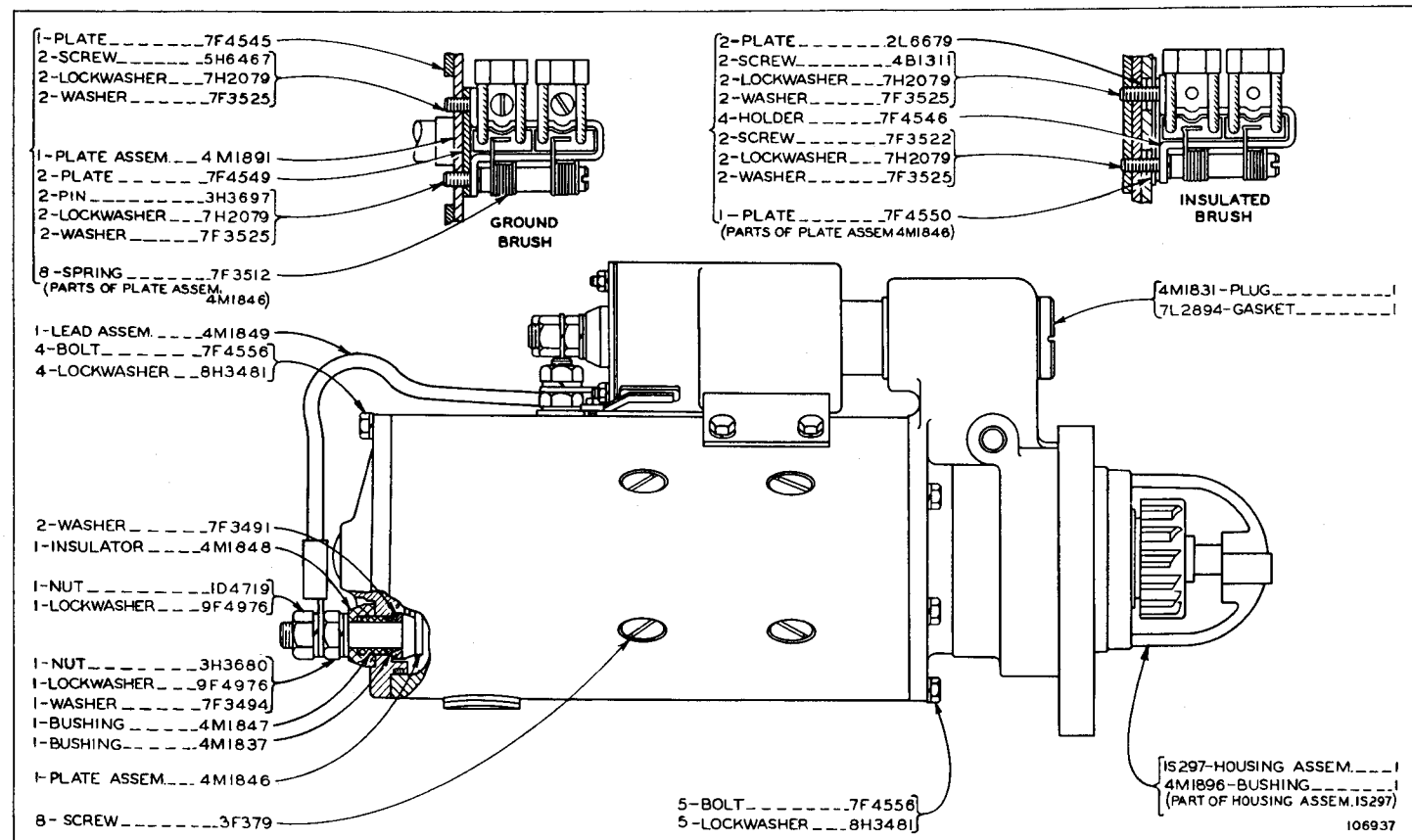
8L5949 ELECTRIC STARTING GROUP--12 Volt  
8L5881 Motor parts are shown on Pages 110 through 113



2N3195 ELECTRIC STARTING GROUP--12 Volt  
FOR USE WITH S.A.E. NO. 3 FLYWHEEL HOUSING  
9L3597 Motor parts are shown on Pages 114 through 117

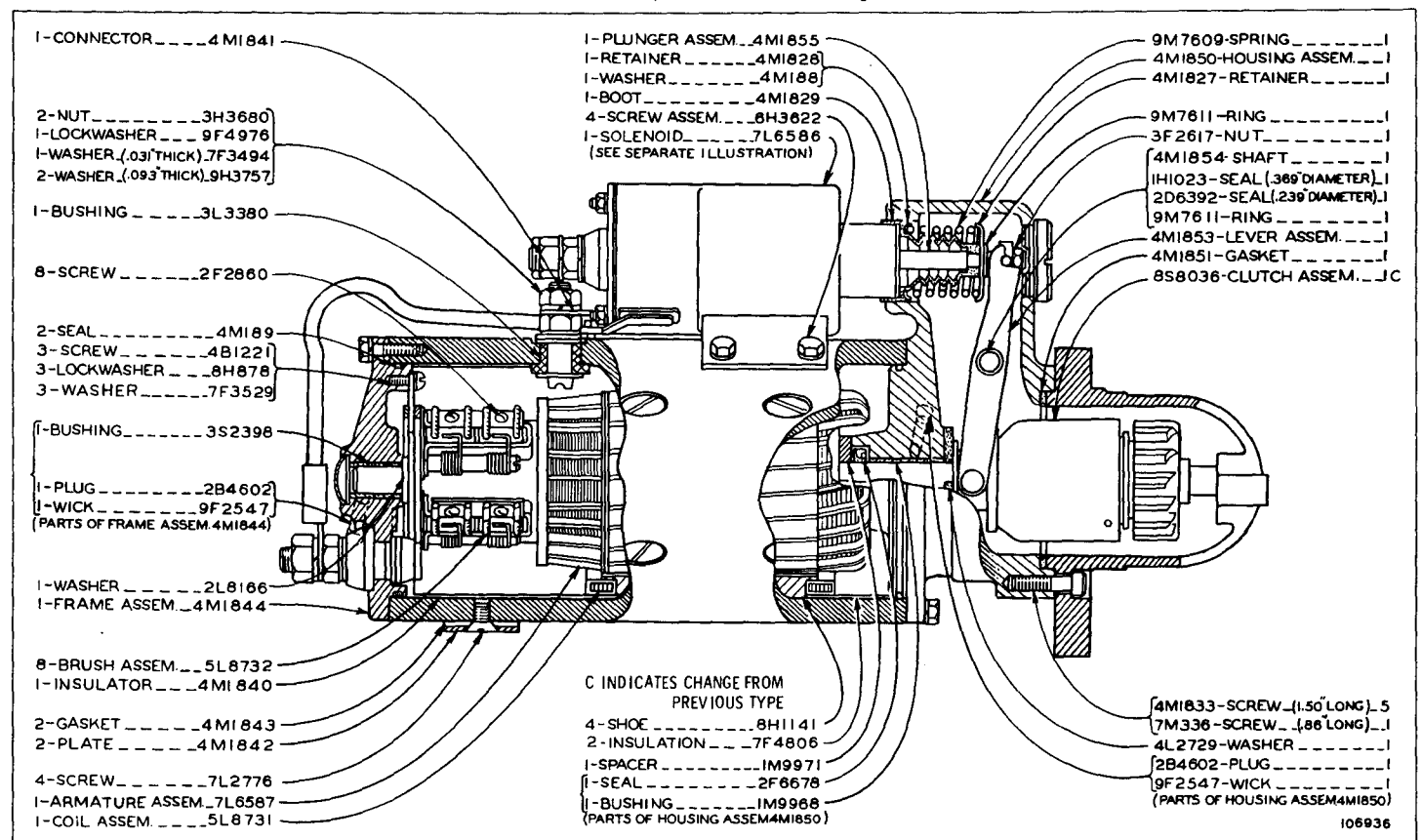
ONLY "CATERPILLAR" PARTS GIVE "CATERPILLAR" PERFORMANCE

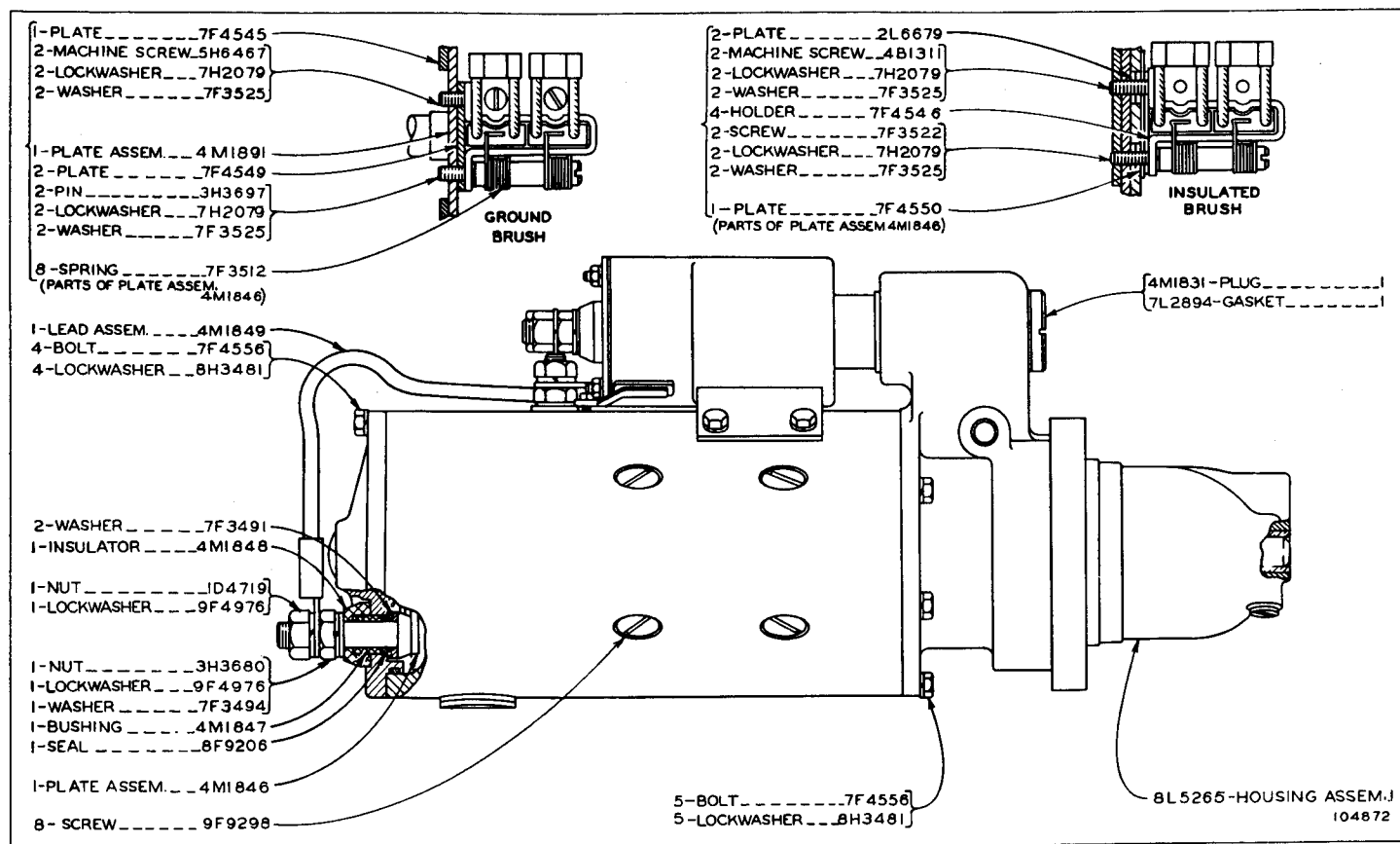
ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS



8L5881 STARTING MOTOR ASSEMBLY-12 Volt-Part 1-Type 2  
Part of 8L5949 Electric Starting Group and 3N3353 Electrical System shown on Pages 109 and 135

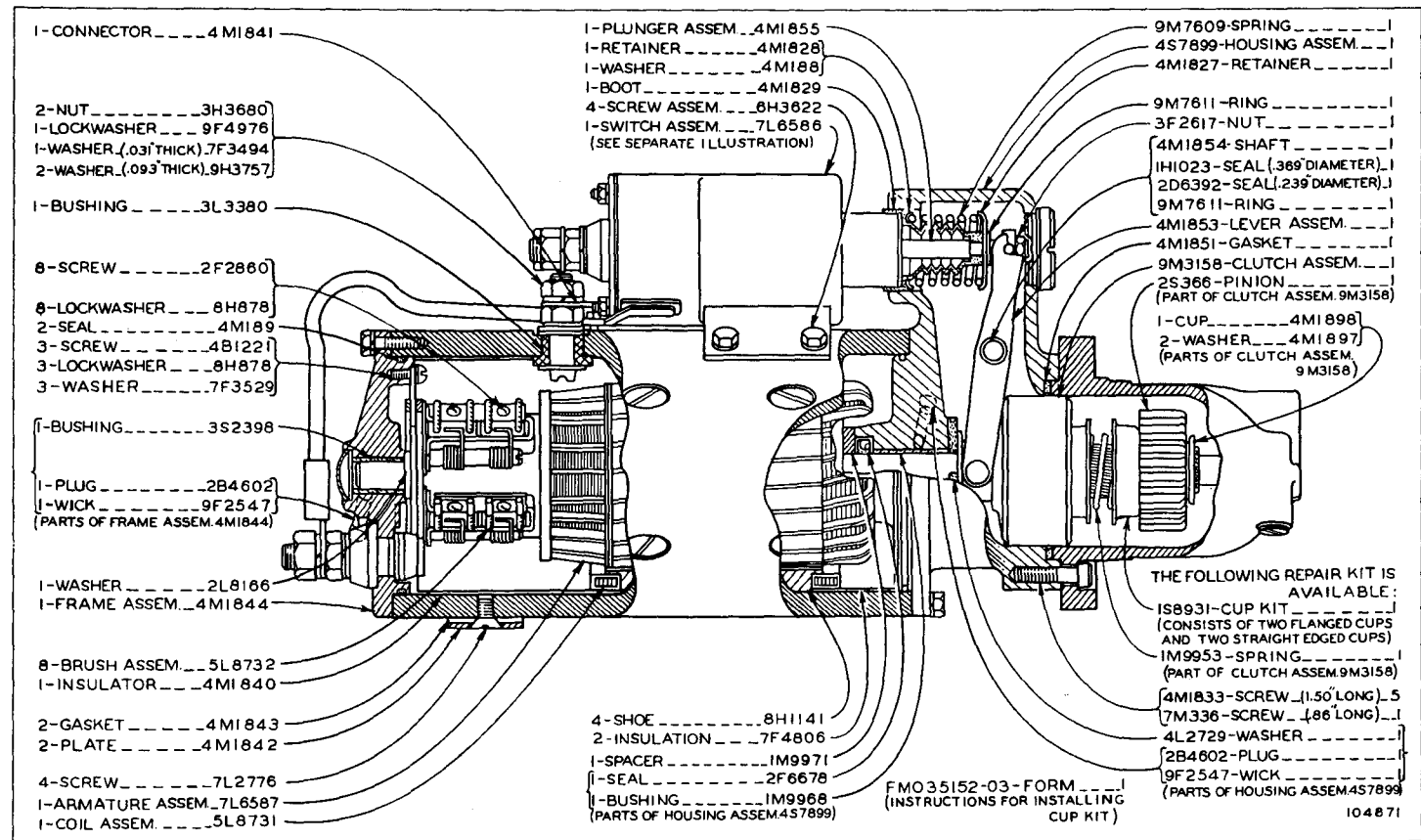
8L5881 STARTING MOTOR ASSEMBLY—12 Volt—Part 2—Type 2  
 Part of 8L5949 Electric Starting Group and 3N3353 Electrical System shown on Pages 109 and 135  
 7L6586 Switch parts are shown on Page 118



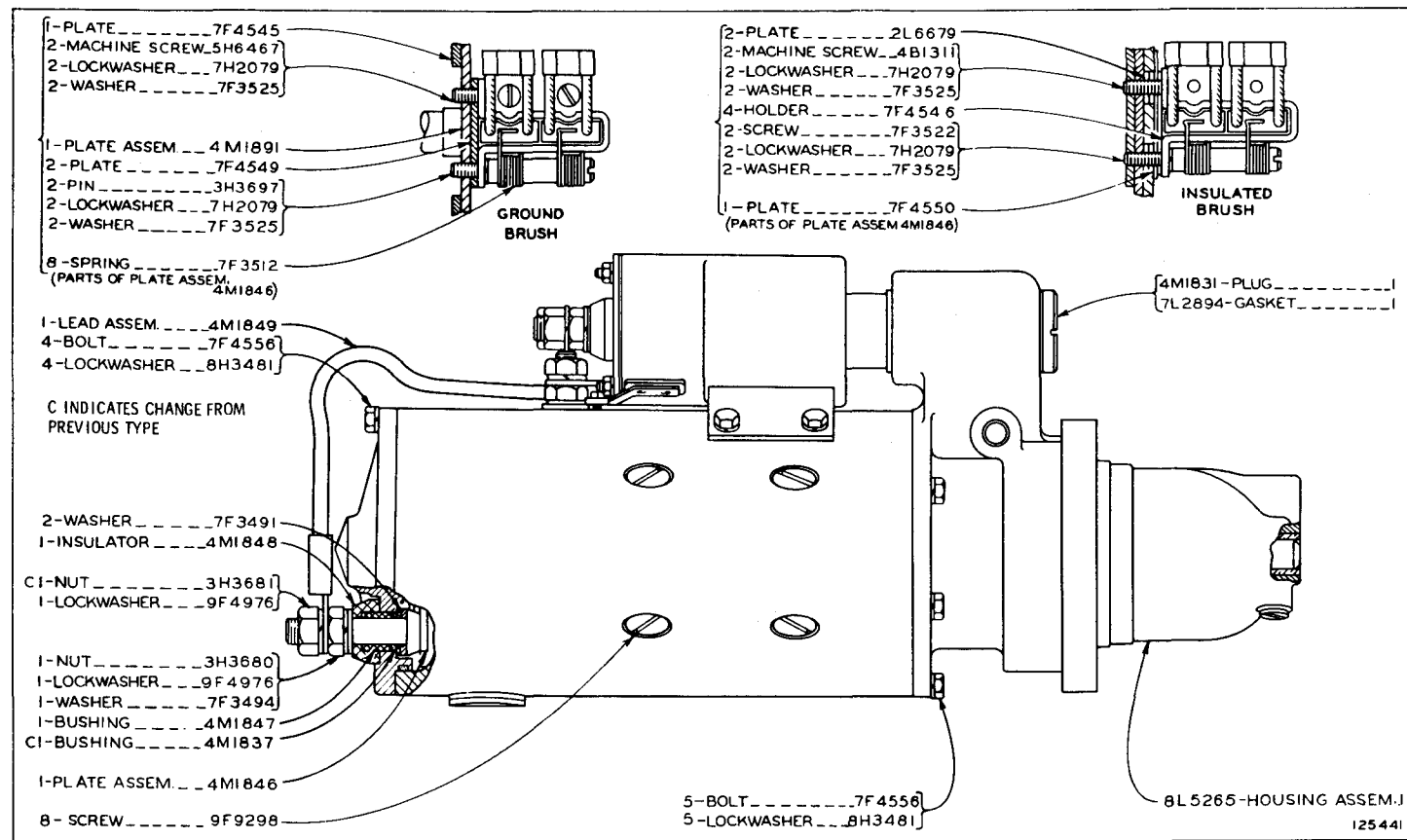


9L3597 STARTING MOTOR ASSEMBLY-12 Volt-Part 1-Type 1  
Part of 2N3195 Electric Starting Group shown on Page 109

9L3597 STARTING MOTOR ASSEMBLY—12 Volt—Part 2—Type 1  
 Part of 2N3195 Electric Starting Group shown on Page 109  
 7L6586 Switch parts are shown on Page 118

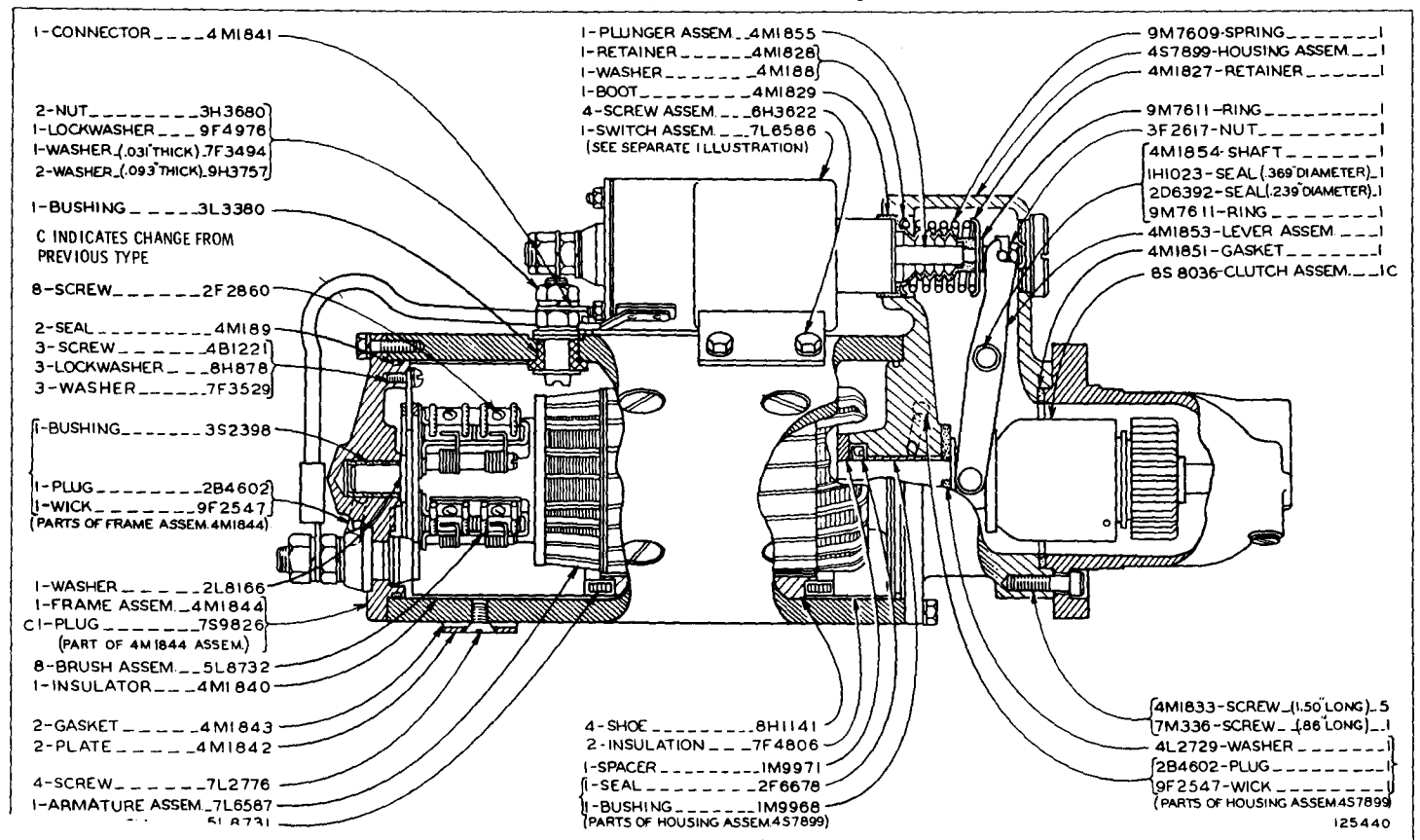


ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS

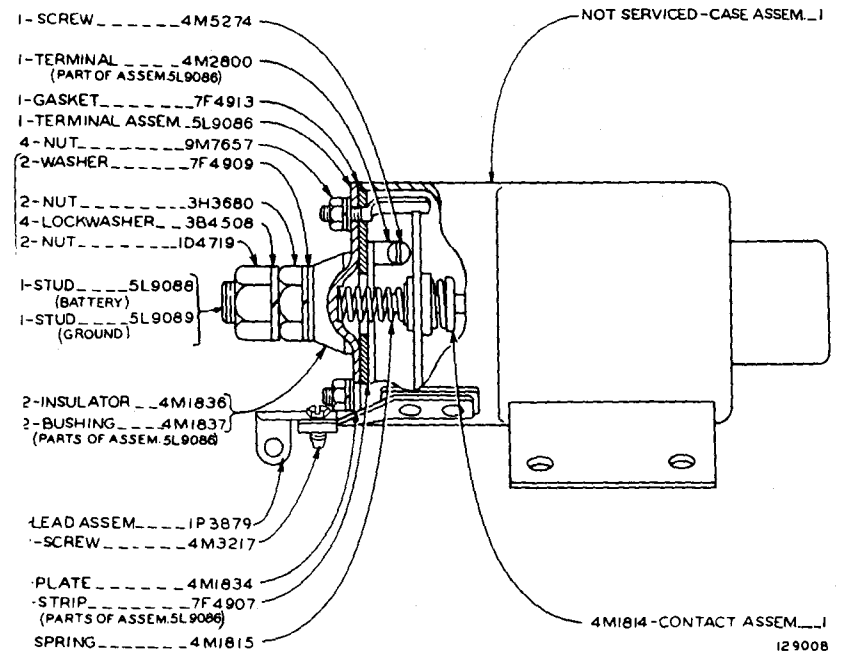


9L3597 STARTING MOTOR ASSEMBLY-12 Volt-Part 1-Type 2  
Part of 2N3195 Electric Starting Group shown on Page 109

9L3597 STARTING MOTOR ASSEMBLY-12 Volt-Part 2-Type 2  
 Part of 2N3195 Electric Starting Group shown on Page 109  
 7L6586 Switch parts are shown on Page 118



# CATERPILLAR 3145 ENGINE



7L6586 SOLENOID SWITCH ASSEMBLY—12 Volt  
Part of 8L5881 and 9L3597 Motor Assemblies shown on  
Pages 111, 113, 115 and 117

## Consists of:

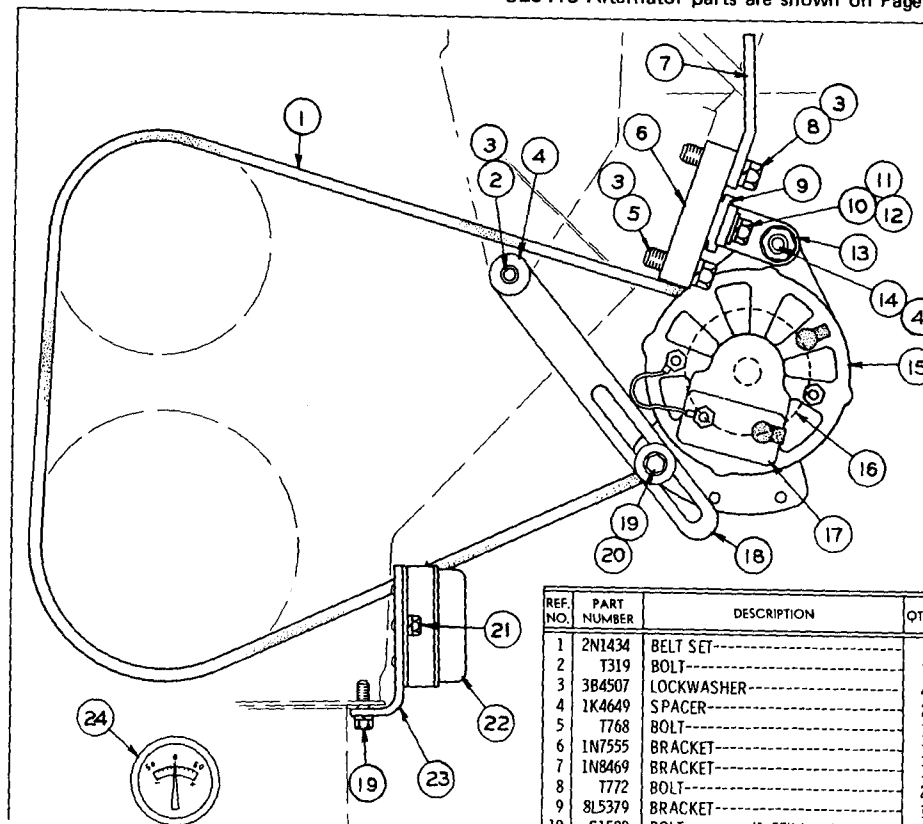
Page

|   |        |                           |     |
|---|--------|---------------------------|-----|
| 1 | 2N6396 | Alternator Assembly.....  | 124 |
| 1 | 2N5880 | Lead Assembly             |     |
| 1 | 2N7278 | Regulator Assembly        |     |
| 1 | .....  | Instruction Form GMG00834 |     |

## 3N1382 ALTERNATOR ASSEMBLY—12 Volt

AYS GIVE SERIAL NUMBER

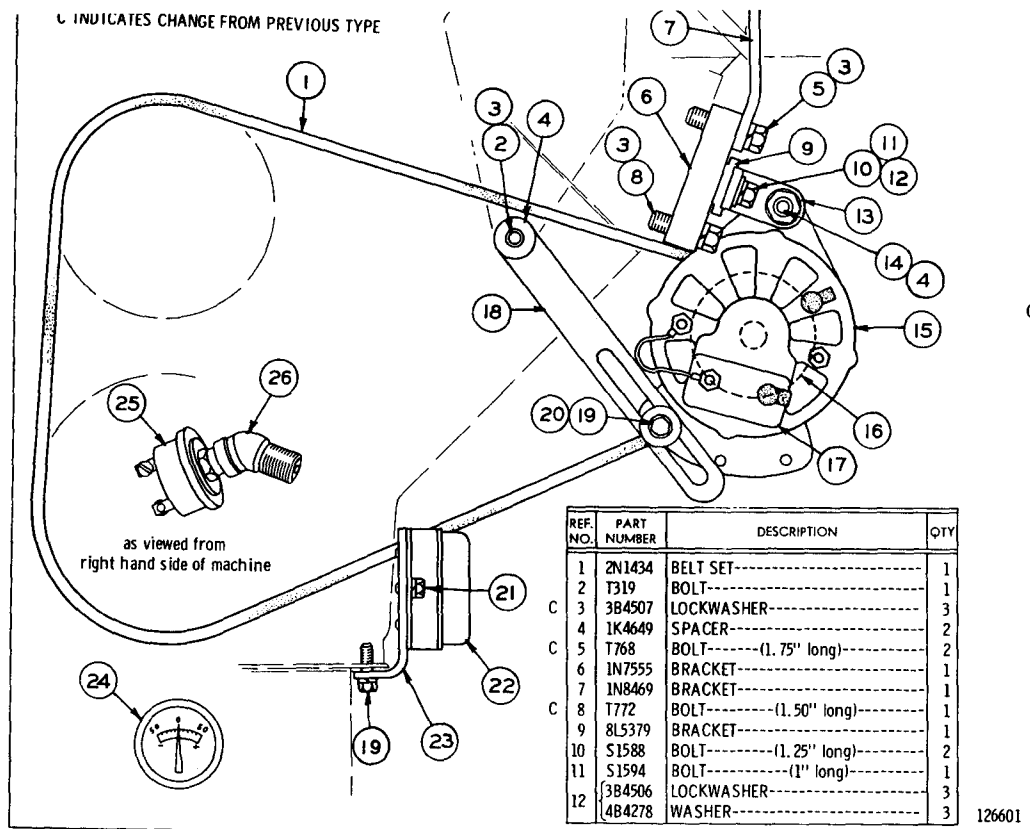
1N9289 ALTERNATOR GROUP—12 Volt, 35 Ampere—Type 1  
8L5410 Alternator parts are shown on Page 123



| REF. NO. | PART NUMBER | DESCRIPTION                 | QTY |
|----------|-------------|-----------------------------|-----|
| 1        | 2N1434      | BELT SET-----               | 1   |
| 2        | T319        | BOLT-----                   | 1   |
| 3        | 3B4507      | LOCKWASHER-----             | 4   |
| 4        | 1K4649      | SPACER-----                 | 2   |
| 5        | T768        | BOLT-----                   | 1   |
| 6        | 1N7555      | BRACKET-----                | 1   |
| 7        | 1N8469      | BRACKET-----                | 1   |
| 8        | T772        | BOLT-----                   | 2   |
| 9        | 8L5379      | BRACKET-----                | 1   |
| 10       | S1588       | BOLT----- (1.25" long)----- | 2   |
| 11       | S1594       | BOLT----- (1" long)-----    | 1   |

| REF. NO. | PART NUMBER | DESCRIPTION                                                                | QTY |
|----------|-------------|----------------------------------------------------------------------------|-----|
| 12       | 3B4506      | LOCKWASHER-----                                                            | 3   |
|          | 4B4278      | WASHER-----                                                                | 3   |
| 13       | 8L5380      | BRACKET-----                                                               | 1   |
|          | 1D4566      | BOLT-----                                                                  | 1   |
|          | 1D4719      | NUT-----                                                                   | 1   |
| 14       | 3B4508      | LOCKWASHER-----                                                            | 1   |
| 15       | 8L5410      | ALTERNATOR ASSEM.-----<br>(See Separate Illustration)                      | 1   |
| 16       | 2N195       | PULLEY-----                                                                | 1   |
| 17       | 6L3483      | COVER-----                                                                 | 2   |
| 18       | 1N5492      | STRAP-----                                                                 | 1   |
|          | S1618       | BOLT-----                                                                  | 3   |
| 19       | 3B4505      | LOCKWASHER-----                                                            | 3   |
| 20       | 4H9981      | WASHER-----                                                                | 1   |
|          | S1614       | BOLT-----                                                                  | 3   |
| 21       | 3B4504      | LOCKWASHER-----                                                            | 3   |
| 22       | 8L5413      | REGULATOR-----                                                             | 1   |
| 23       | 1N9086      | BRACKET-----                                                               | 1   |
| 24       | 7F6429      | AMMETER-----                                                               | 1   |
|          | 2N794       | RETAINER-----                                                              | 1   |
|          | 4S8773      | WIRE----- (No. 8)----- 11 feet                                             |     |
|          | 4S8785      | WIRE----- (No. 10)----- 11 feet                                            |     |
|          | 4S8787      | WIRE----- (No. 14)----- 11 feet                                            |     |
|          | 1L9899      | MARKER----- (Card of)-----                                                 | 1   |
|          | 1H5166      | CLIP-----                                                                  | 6   |
|          | 8L8413      | TIE-----                                                                   | 6   |
|          | 2L8054      | TERMINAL----- (1/2" Screw)-----<br>(Used with No. 6 Wire)                  | 2   |
|          | 2L8057      | TERMINAL----- (No. 10 Screw)-----<br>(Used with No. 8 Wire)                | 5   |
|          | 2L8066      | TERMINAL----- (No. 10 Screw)-----                                          | 3   |
|          | 2L8071      | TERMINAL----- (1/2" Screw)-----<br>(Used with No. 10 Wire)                 |     |
|          | 2L8076      | TERMINAL----- (No. 10 Screw)-----                                          | 5   |
|          | 2L8075      | TERMINAL----- (No. 8 Screw)-----<br>(Used with No. 14 Wire)<br>(Not Shown) |     |
|          | 8L5950      | WIRING DIAGRAM-----                                                        | 1   |

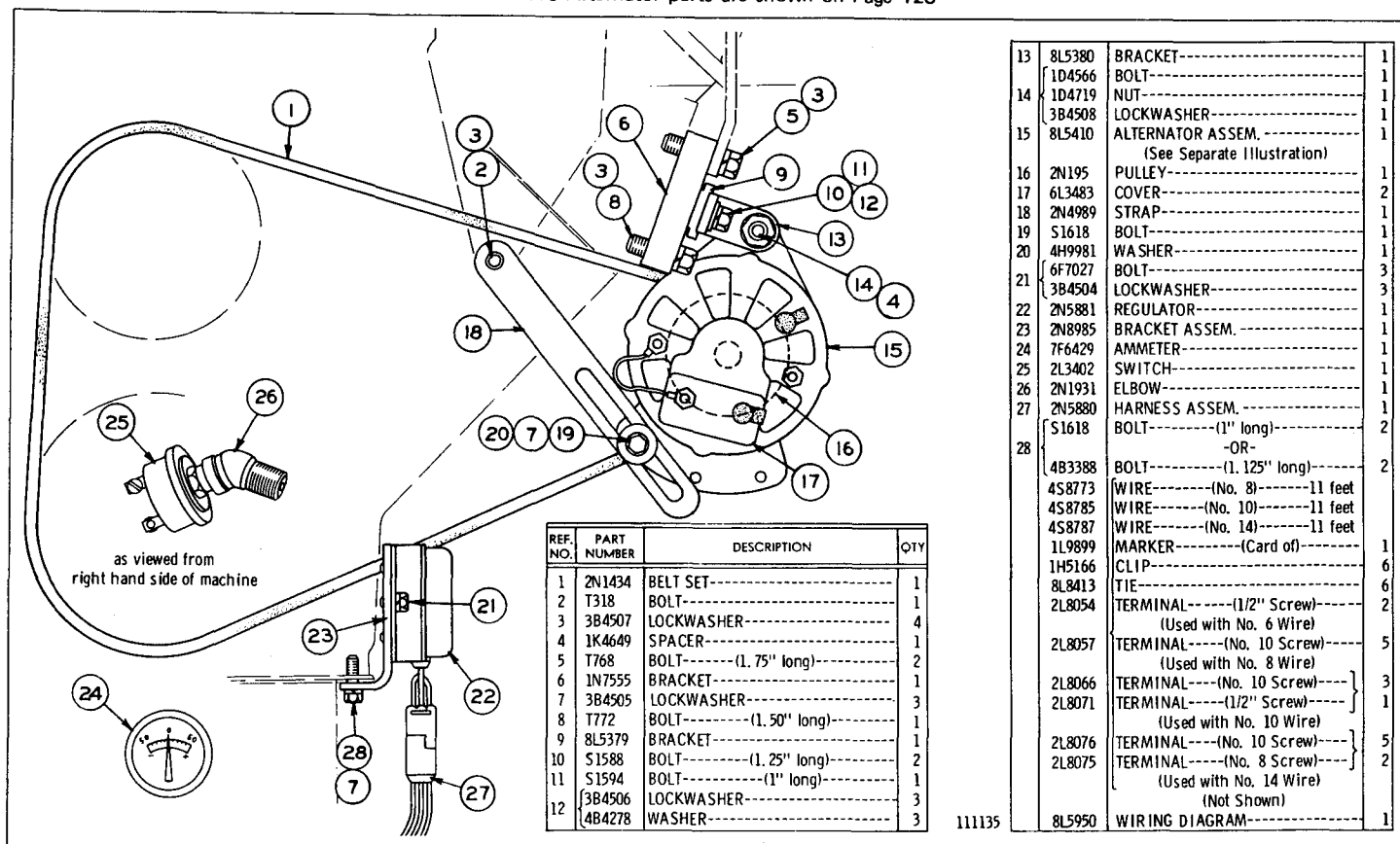
105928



| REF. NO. | PART NUMBER | DESCRIPTION                                                 | QTY     |
|----------|-------------|-------------------------------------------------------------|---------|
| 13       | 8L5380      | BRACKET-----                                                | 1       |
|          | 1D4566      | BOLT-----                                                   | 1       |
| 14       | 1D4719      | NUT-----                                                    | 1       |
|          | 3B4508      | LOCKWASHER-----                                             | 1       |
| 15       | 8L5410      | ALTERNATOR ASSEM.-----<br>(See Separate Illustration)       | 1       |
| 16       | 2N195       | PULLEY-----                                                 | 1       |
| 17       | 6L3483      | COVER-----                                                  | 2       |
| 18       | 1N5492      | STRAP-----                                                  | 1       |
| 19       | S1618       | BOLT-----                                                   | 3       |
|          | 3B4505      | LOCKWASHER-----                                             | 3       |
| 20       | 4H9981      | WASHER-----                                                 | 1       |
| 21       | 6F7027      | BOLT-----                                                   | 3       |
|          | 3B4504      | LOCKWASHER-----                                             | 3       |
| 22       | 8L5413      | REGULATOR-----                                              | 1       |
| 23       | 1N9086      | BRACKET-----                                                | 1       |
| 24       | 7F6429      | AMMETER-----                                                | 1       |
|          | 2N794       | RETAINER-----                                               | 1       |
| 25       | 2L3402      | SWITCH-----                                                 | 1       |
| 26       | 2N1931      | ELBOW-----                                                  | 1       |
|          | 4S8773      | WIRE----- (No. 8)-----                                      | 11 feet |
|          | 4S8785      | WIRE----- (No. 10)-----                                     | 11 feet |
|          | 4S8787      | WIRE----- (No. 14)-----                                     | 11 feet |
|          | 1L9899      | MARKER----- (Card of)                                       | 1       |
|          | 1H5166      | CLIP-----                                                   | 6       |
|          | 8L8413      | TIE-----                                                    | 6       |
|          | 2L8054      | TERMINAL----- (1/2" Screw)-----<br>(Used with No. 6 Wire)   | 2       |
|          | 2L8057      | TERMINAL----- (No. 10 Screw)-----<br>(Used with No. 8 Wire) | 5       |
|          | 2L8066      | TERMINAL----- (No. 10 Screw)-----                           | 3       |
|          | 2L8071      | TERMINAL----- (1/2" Screw)-----<br>(Used with No. 10 Wire)  |         |
|          | 2L8076      | TERMINAL----- (No. 10 Screw)-----                           | 5       |
|          | 2L8075      | TERMINAL----- (No. 8 Screw)-----<br>(Used with No. 14 Wire) |         |
|          |             | (Not Shown)                                                 |         |
|          | 8L5950      | WIRING DIAGRAM-----                                         | 1       |

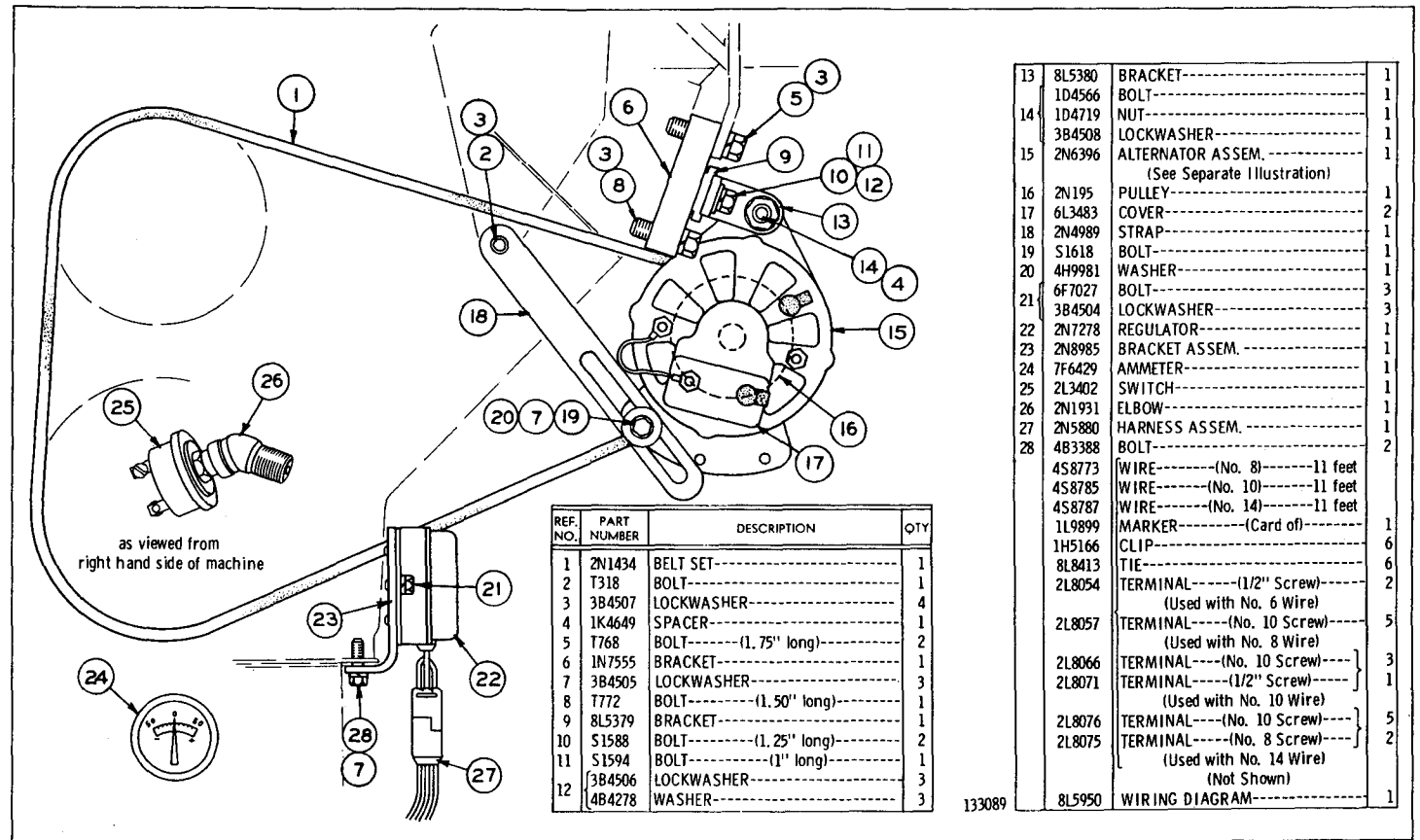
1N9289 ALTERNATOR GROUP--12 Volt, 35 Ampere--Type 2  
8L5410 Alternator parts are shown on Page 123

1N9289 ALTERNATOR GROUP—12 Volt, 35 Ampere—Type 3  
8L5410 Alternator parts are shown on Page 123

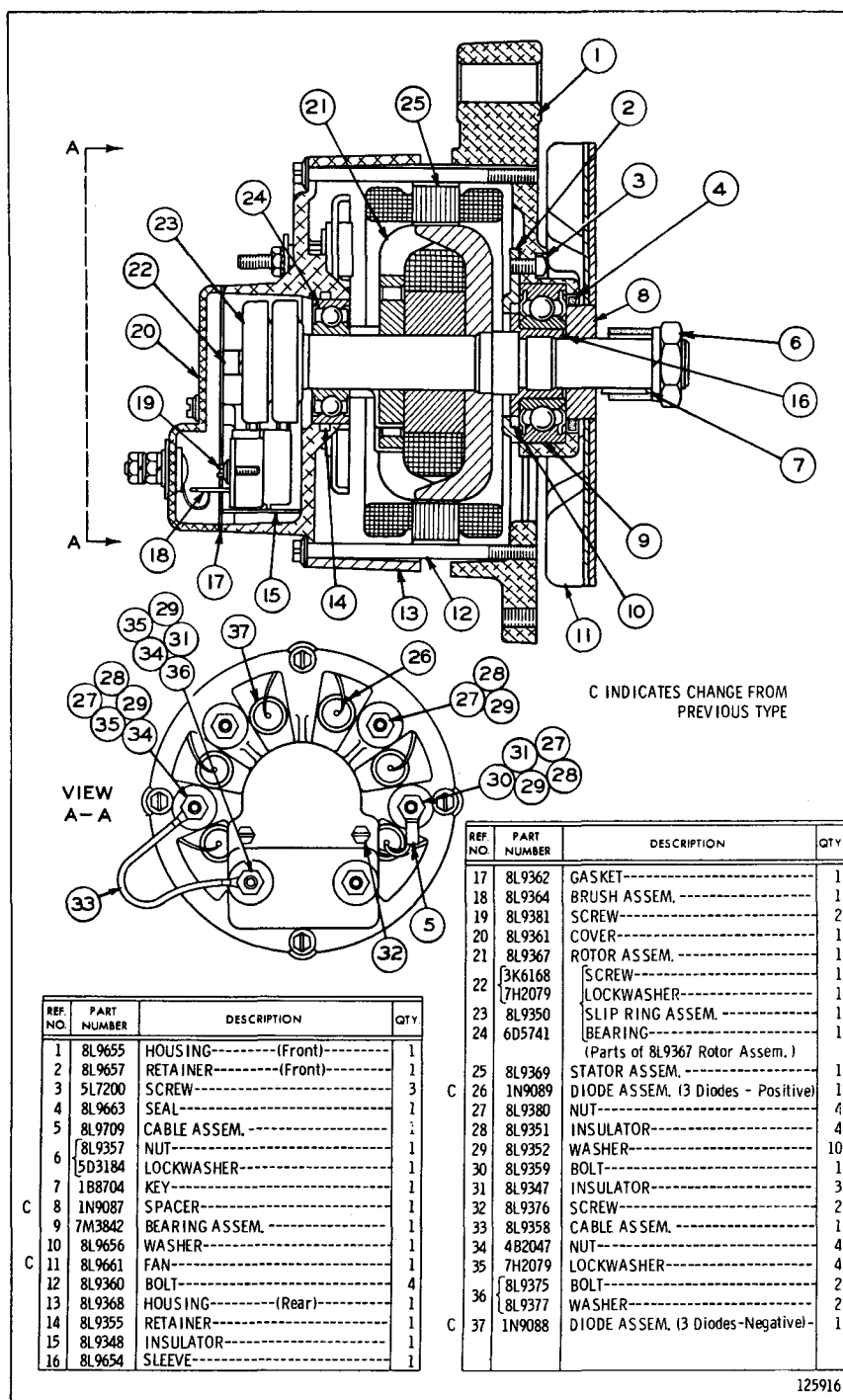


111135

ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS



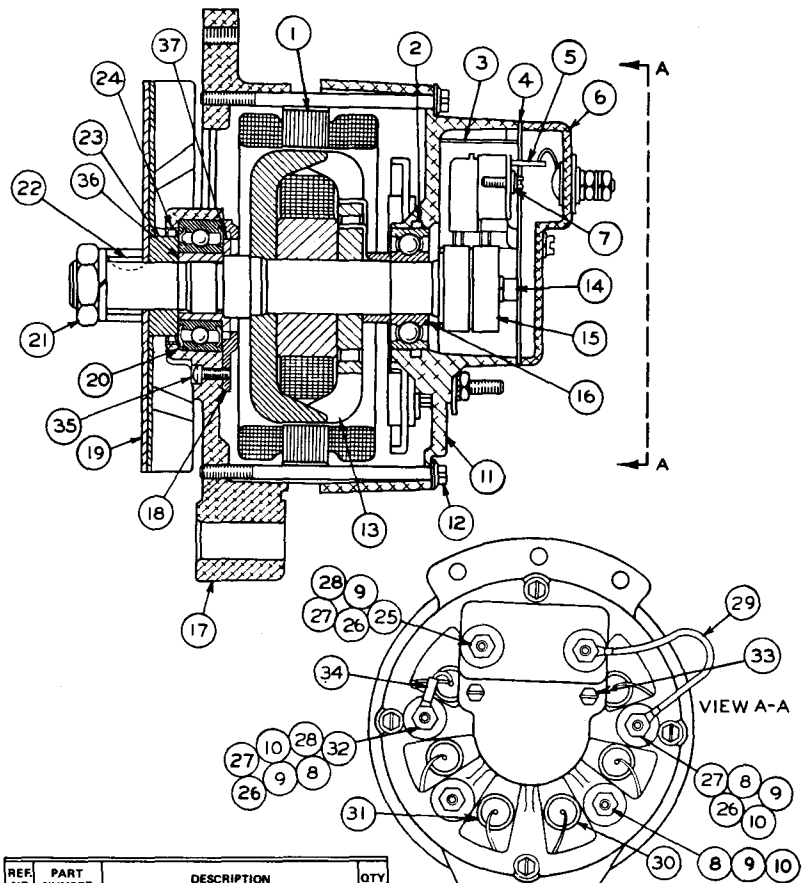
1N9289 ALTERNATOR GROUP--12 Volt, 35 Ampere--Type 4  
2N6396 Alternator parts are shown on Pages 124 and 125



125916

8L5410 ALTERNATOR ASSEMBLY—12 Volt, 35 Ampere  
 Part of 1N9289 Alternator Group shown on Pages 119, 120 and 121  
 Only separate parts serviced. When complete Assembly is required  
 order 3N1382 listed on Page 118

ONLY "CATERPILLAR" PARTS GIVE "CATERPILLAR" PERFORMANCE



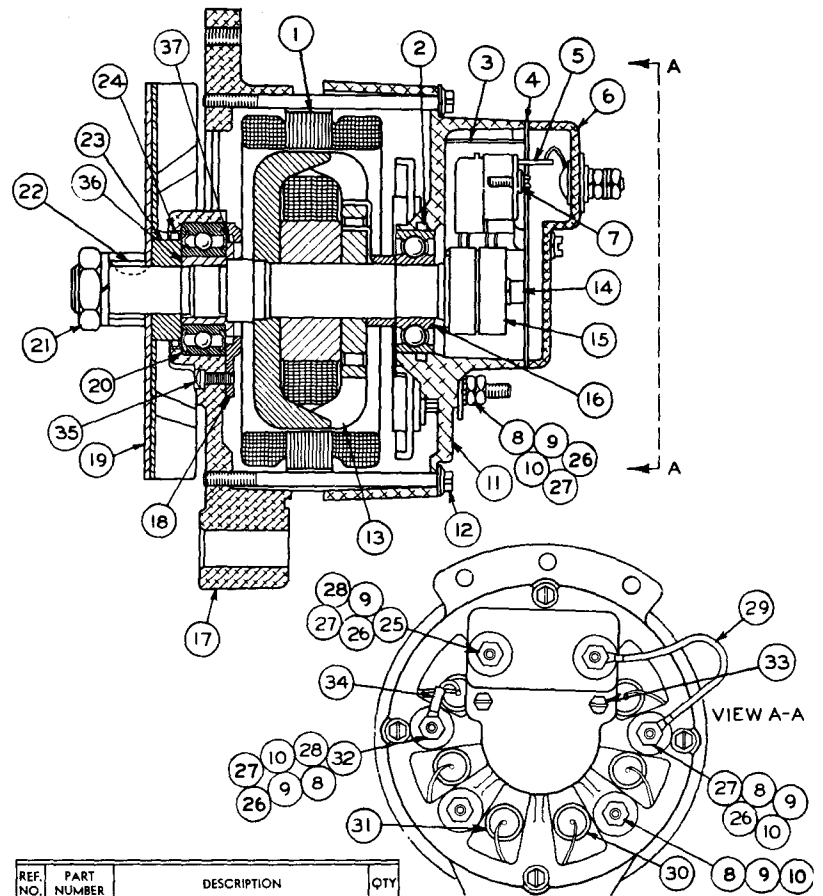
| REF. NO. | PART NUMBER | DESCRIPTION                   | QTY |
|----------|-------------|-------------------------------|-----|
| 1        | 8L9369      | STATOR ASSEM.                 | 1   |
| 2        | 8L9355      | RETAINER                      | 1   |
| 3        | 8L9348      | INSULATOR                     | 1   |
| 4        | 8L9362      | GASKET                        | 1   |
| 5        | 2N6399      | BRUSH ASSEM.                  | 1   |
| 6        | 8L9361      | COVER                         | 1   |
| 7        | 8L9381      | SCREW                         | 2   |
| 8        | 8L9380      | NUT                           | 4   |
| 9        | 8L9352      | WASHER                        | 10  |
| 10       | 8L9351      | INSULATOR                     | 4   |
| 11       | 8L9368      | HOUSING----(Rear)----         | 1   |
| 12       | 8L9260      | BOLT                          | 4   |
| 13       | 8L9367      | ROTOR ASSEM.                  | 1   |
| 14       | 3K6168      | SCREW                         | 1   |
| 15       | 7H2079      | LOCKWASHER                    | 1   |
| 16       | 8L9350      | SLIP RING ASSEM.              | 1   |
| 17       | 6D5741      | BEARING                       | 1   |
| 18       | 8L9655      | HOUSING ASSEM.----(Front)---- | 1   |
| 19       | 8L9657      | RETAINER                      | 1   |
| 19       | 8L9661      | FAN                           | 1   |

|    |        |                                    |   |
|----|--------|------------------------------------|---|
| 20 | 7M3842 | BEARING                            | 1 |
| 21 | 8L9357 | NUT                                | 1 |
| 21 | 5D3184 | LOCKWASHER                         | 1 |
| 22 | 1B8704 | KEY                                | 1 |
| 23 | 1N9087 | SPACER                             | 1 |
| 24 | 8L9663 | SEAL                               | 1 |
| 25 | 8L9375 | BOLT                               | 2 |
| 25 | 8L9377 | WASHER                             | 2 |
| 26 | 7H2079 | LOCKWASHER                         | 4 |
| 27 | 4B2047 | NUT                                | 4 |
| 28 | 8L9347 | INSULATOR                          | 3 |
| 29 | 8L9358 | CABLE ASSEM.                       | 1 |
| 30 | 8L9365 | DIODE ASSEM. -(3 Diodes-Negative)- | 1 |
| 31 | 8L9363 | DIODE ASSEM. -(3 Diodes-Positive)- | 1 |
| 32 | 8L9359 | BOLT                               | 1 |
| 33 | 8L9376 | SCREW                              | 2 |
| 34 | 8L9709 | CABLE ASSEM.                       | 1 |
| 35 | 5L7200 | SCREW                              | 3 |
| 36 | 8L9654 | SLEEVE                             | 1 |
| 37 | 8L9656 | WASHER                             | 1 |

138203

2N6396 ALTERNATOR ASSEMBLY-12 Volt, 35 Ampere-Type 1  
Part of 3N1382, 1N9289 Alternators and  
3N3353 Electrical System shown on Pages 118, 122 and 135

ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS



| REF. NO. | PART NUMBER | DESCRIPTION                      | QTY |
|----------|-------------|----------------------------------|-----|
| 1        | 8L9369      | STATOR ASSEM.-----               | 1   |
| 2        | 8L9355      | RETAINER-----                    | 1   |
| 3        | 8L9348      | INSULATOR-----                   | 1   |
| 4        | 8L9362      | GASKET-----                      | 1   |
| 5        | 2N6399      | BRUSH ASSEM.-----                | 1   |
| 6        | 8L9361      | COVER-----                       | 1   |
| 7        | 8L9381      | SCREW-----                       | 2   |
| 8        | 8L9380      | NUT-----                         | 4   |
| 9        | 8L9352      | WASHER-----                      | 10  |
| 10       | 3N1204      | INSULATOR-----                   | 4   |
| 11       | 8L9368      | HOUSING----- (Rear)-----         | 1   |
| 12       | 8L9260      | BOLT-----                        | 4   |
| 13       | 3N1201      | ROTOR ASSEM.-----                | 1   |
| 14       | 3K6168      | SCREW-----                       | 1   |
| 15       | 7H2079      | LOCKWASHER-----                  | 1   |
| 16       | 3N1223      | WASHER-----                      | 1   |
| 17       | 3N1200      | SLIP RING ASSEM.-----            | 1   |
| 18       | 4M2995      | BEARING-----                     | 1   |
| 19       | 8L9655      | HOUSING ASSEM.----- (Front)----- | 1   |
| 20       | 8L9657      | RETAINER-----                    | 1   |
| 21       | 8L9661      | FAN-----                         | 1   |

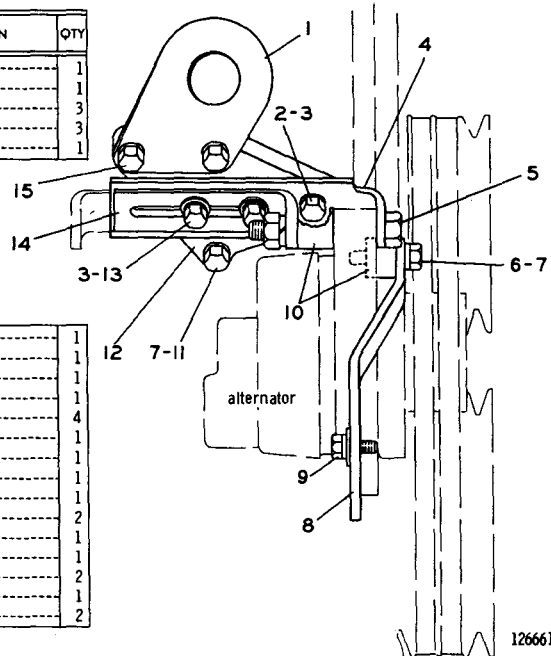
|    |        |                                       |
|----|--------|---------------------------------------|
| 20 | 1S7056 | BEARING-----                          |
| 21 | 8L9357 | NUT-----                              |
| 22 | 5D3184 | LOCKWASHER-----                       |
| 23 | 1B8704 | KEY-----                              |
| 24 | 1N9087 | SPACER-----                           |
| 25 | 8L9663 | SEAL-----                             |
| 26 | 8L9375 | BOLT-----                             |
| 27 | 8L9377 | WASHER-----                           |
| 28 | 7H2079 | LOCKWASHER-----                       |
| 29 | 4B2047 | NUT-----                              |
| 30 | 8L9347 | INSULATOR-----                        |
| 31 | 8L9358 | CABLE ASSEM.-----                     |
| 32 | 8L9365 | DIODE ASSEM. (3 Diodes-Negative)----- |
| 33 | 8L9363 | DIODE ASSEM. (3 Diodes-Positive)----- |
| 34 | 8L9359 | BOLT-----                             |
| 35 | 8L9376 | SCREW-----                            |
| 36 | 8L9709 | CABLE ASSEM.-----                     |
| 37 | 5L7200 | SCREW-----                            |
|    | 3B4501 | LOCKWASHER-----                       |
|    | 8L9654 | SLEEVE-----                           |
|    | 8L9656 | WASHER-----                           |

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2N6396 ALTERNATOR ASSEMBLY—12 Volt, 35 Ampere—Type 2  
 Part of 3N4107, 3N1382, 1N9289 Alternators and 3N3353 Electrical System  
 shown on Pages 64, 118, 122 and 135

| REF. NO. | PART NUMBER | DESCRIPTION     | QTY |
|----------|-------------|-----------------|-----|
| 1        | 1N8469      | BRACKET-----    | 1   |
| 2        | S1594       | BOLT-----       | 1   |
| 3        | 4B4278      | WASHER-----     | 3   |
| 3        | 3B4506      | LOCKWASHER----- | 3   |
| 4        | 8L5379      | BRACKET-----    | 1   |

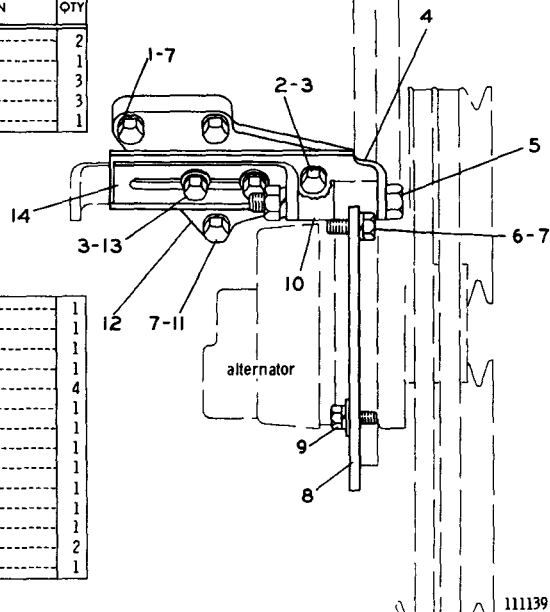
|    |        |                 |   |
|----|--------|-----------------|---|
| 5  | 1D4566 | BOLT-----       | 1 |
| 5  | 1D4719 | NUT-----        | 1 |
| 5  | 3B4508 | LOCKWASHER----- | 1 |
| 6  | T319   | BOLT-----       | 1 |
| 7  | 3B4507 | LOCKWASHER----- | 4 |
| 8  | 1N5492 | STRAP-----      | 1 |
| 8  | S1618  | BOLT-----       | 1 |
| 9  | 3B4505 | LOCKWASHER----- | 1 |
| 9  | 4H9981 | WASHER-----     | 1 |
| 10 | 1K4649 | SPACER-----     | 2 |
| 11 | T768   | BOLT-----       | 1 |
| 12 | 1N7555 | BRACKET-----    | 1 |
| 13 | S1588  | BOLT-----       | 2 |
| 14 | 8L5380 | BRACKET-----    | 1 |
| 15 | T772   | BOLT-----       | 2 |



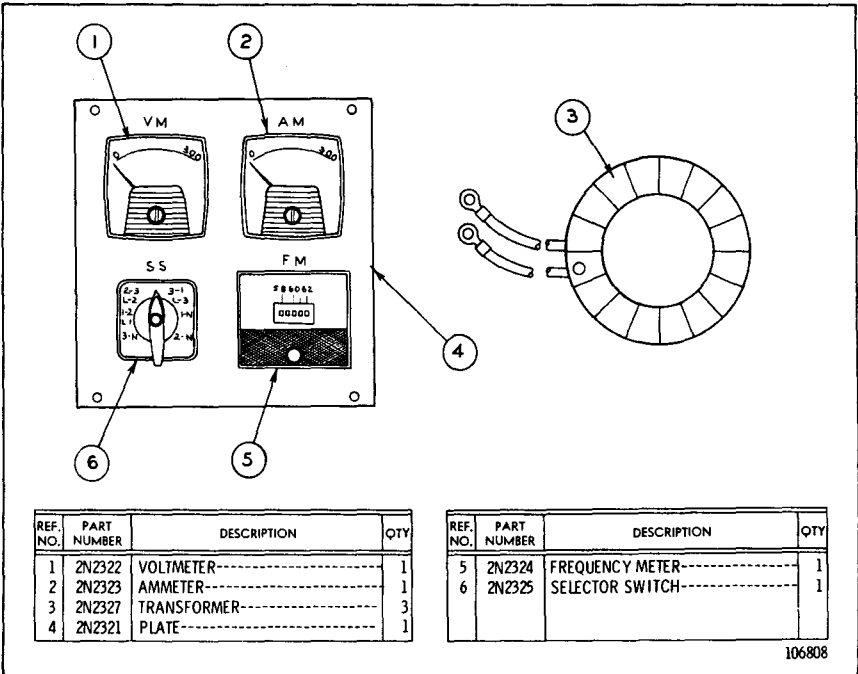
2N1904 ALTERNATOR MOUNTING GROUP—Type 1

| REF. NO. | PART NUMBER | DESCRIPTION     | QTY |
|----------|-------------|-----------------|-----|
| 1        | T768        | BOLT-----       | 2   |
| 2        | S1594       | BOLT-----       | 1   |
| 3        | 4B4278      | WASHER-----     | 3   |
| 3        | 3B4506      | LOCKWASHER----- | 3   |
| 4        | 8L5379      | BRACKET-----    | 1   |

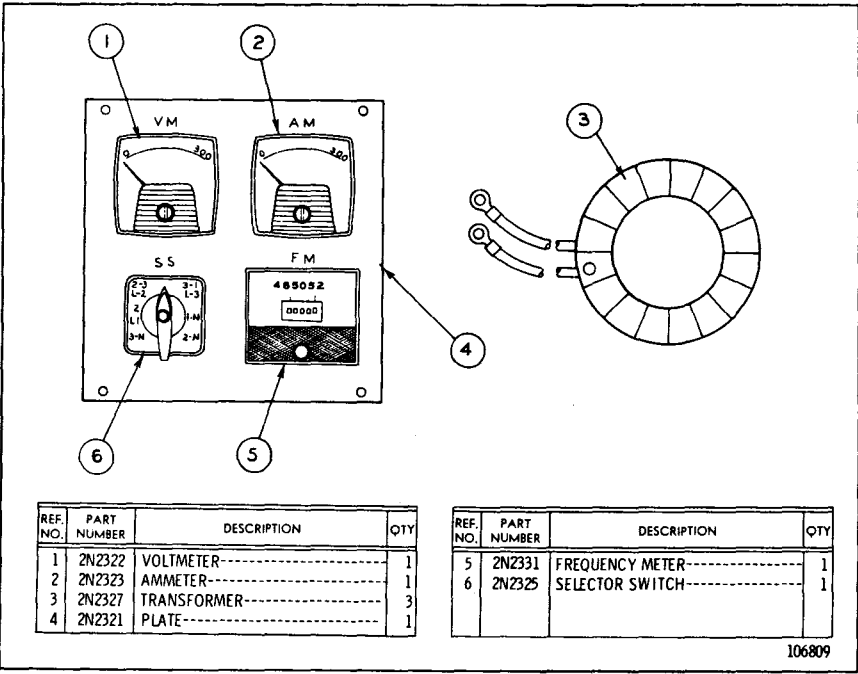
|    |        |                 |   |
|----|--------|-----------------|---|
| 5  | 1D4566 | BOLT-----       | 1 |
| 5  | 1D4719 | NUT-----        | 1 |
| 5  | 3B4508 | LOCKWASHER----- | 1 |
| 6  | T318   | BOLT-----       | 1 |
| 7  | 3B4507 | LOCKWASHER----- | 4 |
| 8  | 2N4989 | STRAP-----      | 1 |
| 8  | S1618  | BOLT-----       | 1 |
| 9  | 3B4505 | LOCKWASHER----- | 1 |
| 9  | 4H9981 | WASHER-----     | 1 |
| 10 | 1K4649 | SPACER-----     | 1 |
| 11 | T772   | BOLT-----       | 1 |
| 12 | 1N7555 | BRACKET-----    | 1 |
| 3  | S1588  | BOLT-----       | 2 |
| 4  | 8L5380 | BRACKET-----    | 1 |



2N1904 ALTERNATOR MOUNTING GROUP—Type 2

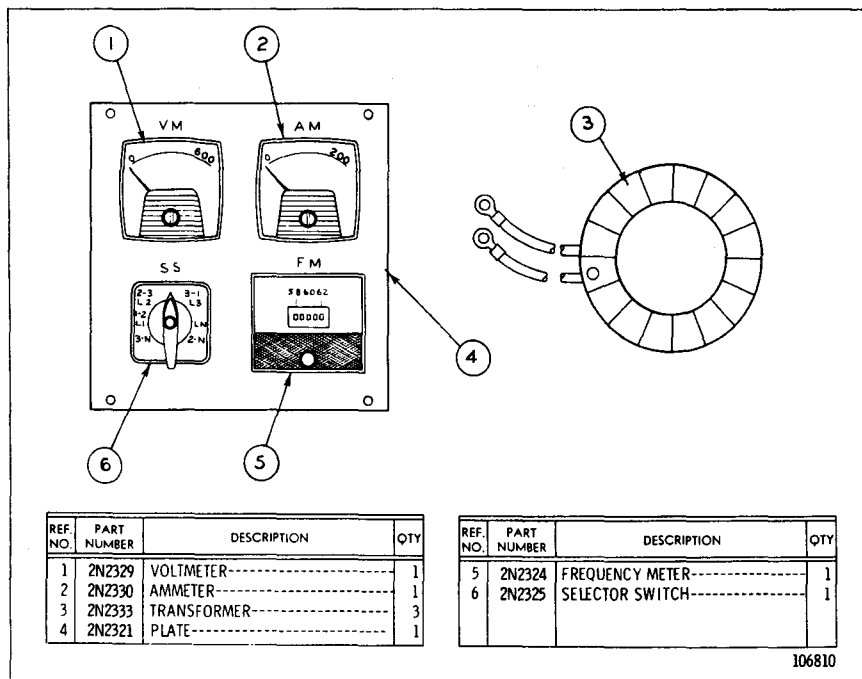


2N2335 METER GROUP—120/180—240 Volt, 60 hertz  
FOR USE WITH 2N2218 GENERATOR GROUP

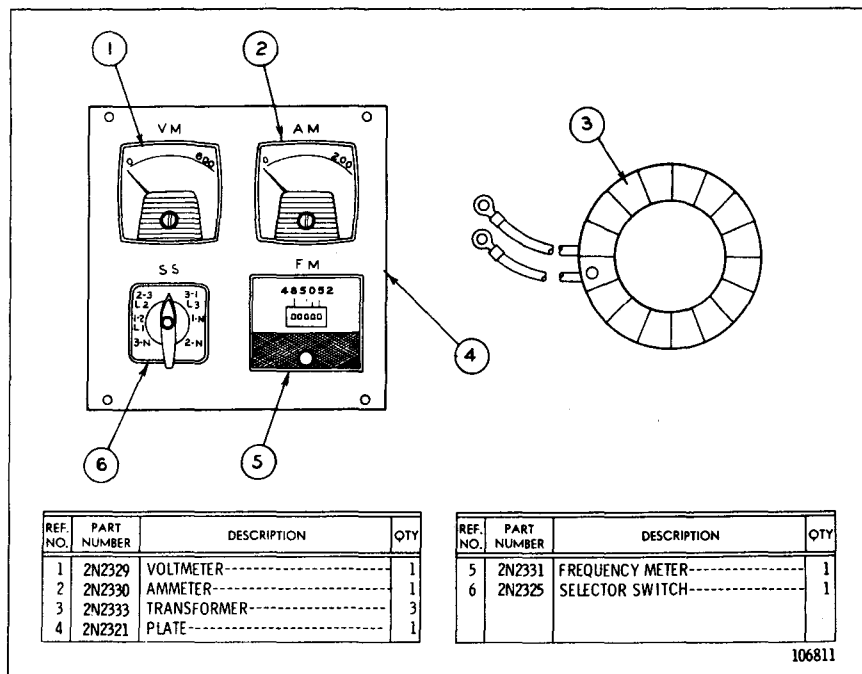


2N2336 METER GROUP—110/190—200 Volt, 50 hertz  
FOR USE WITH 2N2218 GENERATOR GROUP

ONLY "CATERPILLAR" METER GROUPS ARE PERMITTED



2N2337 METER GROUP—240/416—480 Volt, 60 hertz  
FOR USE WITH 2N2218 GENERATOR GROUP



2N2338 METER GROUP—220/380—400 Volt, 50 hertz  
FOR USE WITH 2N2218 GENERATOR GROUP

ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS

### REPLACEMENT PARTS FOR GENERATORS

Only those generators which are sold and serviced exclusively by "Caterpillar" Dealers are illustrated on the following pages.

Externally-regulated "Caterpillar" Diesel Electric Sets are equipped with generators made by other manufacturers. Parts for these generators are NOT serviced by Caterpillar Tractor Co. Parts lists and parts should be ordered from the manufacturer whose name is shown on the Generator Name Plate, always giving the generator rating and serial number shown.

### PIECES DE RECHANGE POUR GENERATRICES

Dans les pages suivantes, nous ne décrivons que les génératrices constante dont la vente et la réparation est assurée par les concessionnaires Caterpillar.

Les Groupes électrogènes Caterpillar à régulation externe sont équipés de génératrices fabriquées par d'autres constructeurs. Les pièces pour ces génératrices ne sont pas fournies par Caterpillar Tractor Co. Il convient donc de s'adresser au constructeur dont le nom figure sur la plaque de la génératrice pour toutes les listes de pièces et pour les commandes de pièces, en indiquant la puissance et le numéro de série de la génératrice.

### REPUESTOS PARA GENERADORES

En las páginas siguientes solamente se ilustran los generadores que son vendidos y reparados exclusivamente por los Distribuidores Caterpillar.

Los Grupos Electrógenos "Caterpillar" de regulación externa están equipados con generadores de otros fabricantes. Caterpillar Tractor Co. no suministra repuestos para estos generadores. Las listas de repuestos y los repuestos mismos deberán pedirse al fabricante cuyo nombre aparece en la placa de identificación de generador, indicando siempre la capacidad de éste y su número de serie indicado.

### PECAS DE SUBSTITUICAO PARA GERADORES

Estão ilustrados nas páginas seguintes somente os geradores vendidos e assistidos exclusivamente pelos revendedores Caterpillar.

As peças de substituição para os geradores dos Grupos Eletrógenos Caterpillar regulados externamente são fabricadas por outras firmas e não são fornecidas pela Caterpillar Tractor Co. Para obter qualquer delas, bem como os catálogos, de peças, dirija-se à firma cujo nome aparece na chapa de identificação do gerador acrescentando no pedido as especificações e o número de série do gerador.

### ERSATZTEILE FÜR GENERATOREN

Nur diejenigen Generatoren welche ausschliesslich von CATERPILLAR Händlern verkauft und gewartet werden, sind auf den folgenden Seiten dargestellt.

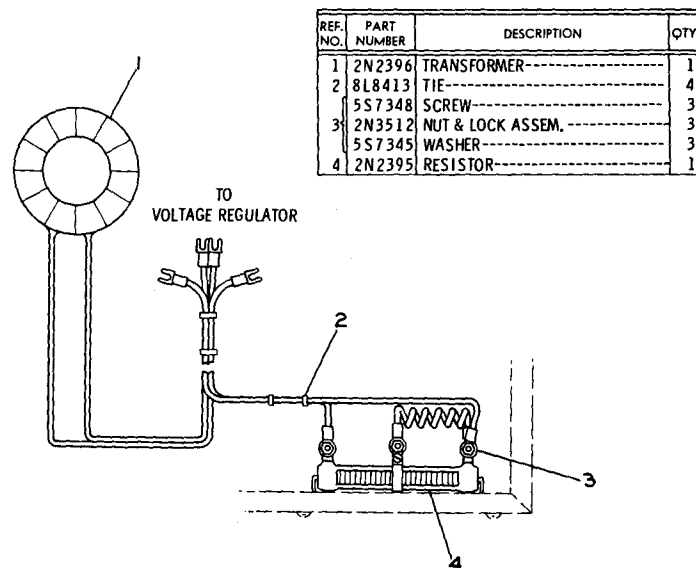
Caterpillar Dieselstromaggregate mit Fremdregelung sind mit Generatoren ausgerüstet, die von anderen Herstellern erzeugt werden. Ersatzteile für solche Generatoren werden NICHT auf Grund von Caterpillar Ersatzteillisten geliefert, sondern müssen jeweils bei dem auf dem Firmenschild angegebenen Hersteller des Generators unter Angabe der Leistung und Seriennummer desselben bestellt werden.

Consists of:

Page

|   |        |                         |     |
|---|--------|-------------------------|-----|
| 1 | .....  | Electrical System.....  | 133 |
| 1 | 8L6243 | Generator Assembly..... | 131 |

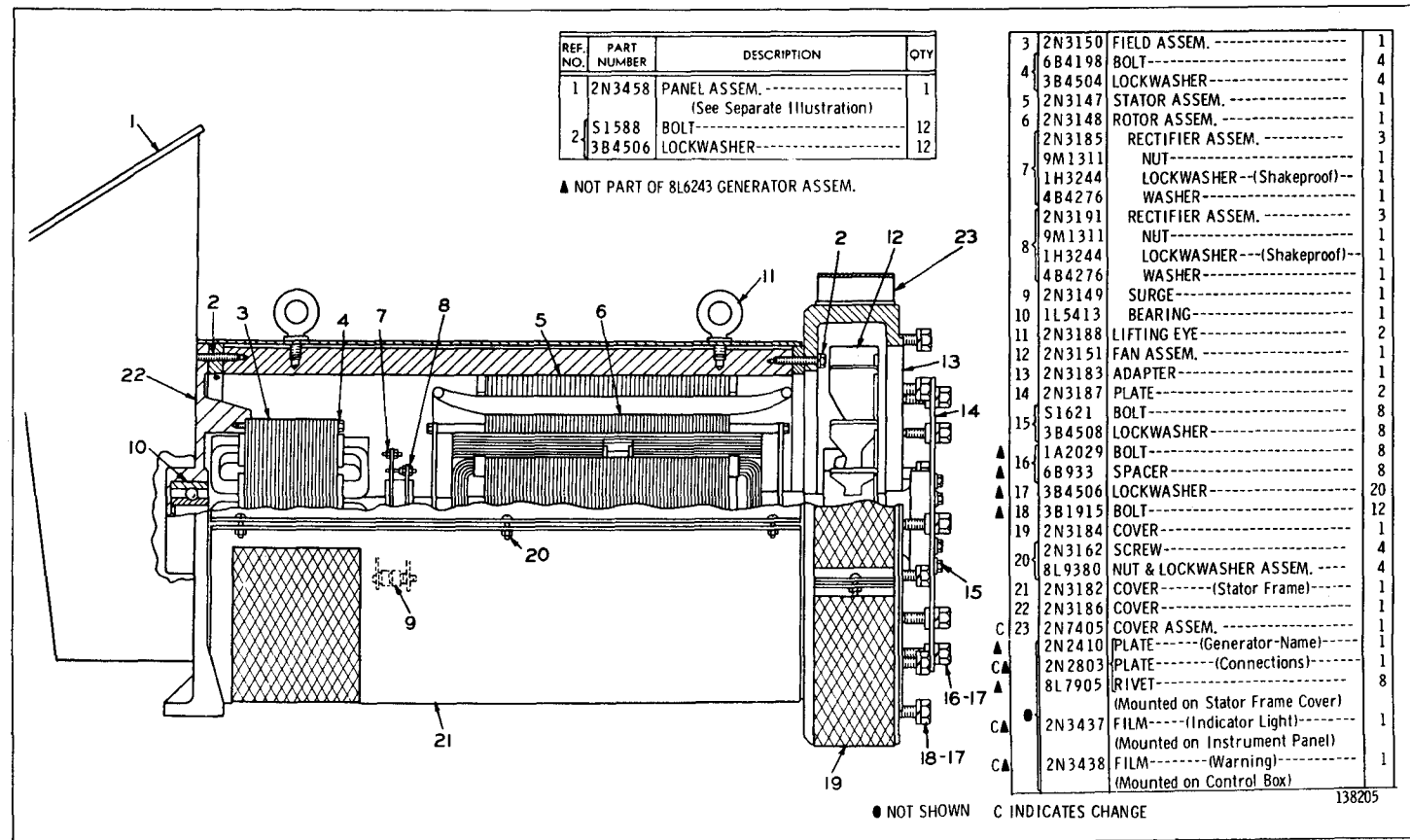
## 2N2218 GENERATOR GROUP—Factory Installation

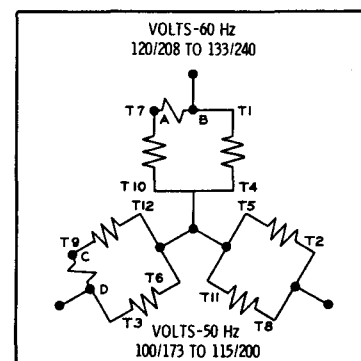
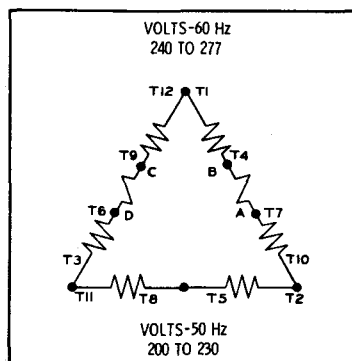
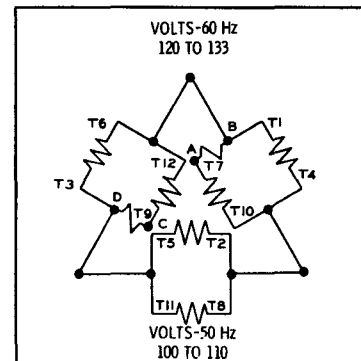
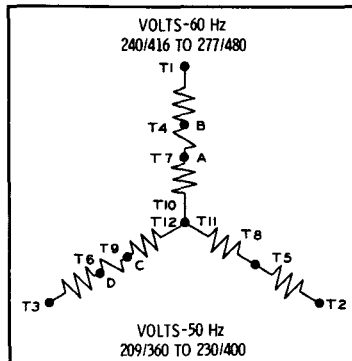


130600

2N2398 DROOP COMPENSATION GROUP  
FOR USE WITH 2N2218 GENERATOR GROUP

**8L6243 GENERATOR ASSEMBLY**  
 Effective with Generator Serial No. 63793-1. Part of 2N2218 Generator Group  
 2N3458 Control Panel parts are shown on Page 136





FOR CONTINUOUS DIESEL ELECTRIC SET SERVICE:

|          |       |          |          |       |
|----------|-------|----------|----------|-------|
| 62.5 KVA | 50 KW | 0.8 P.F. | 1800 RPM | 60 Hz |
| 50 KVA   | 40 KW | 0.8 P.F. | 1500 RPM | 50 Hz |

FOR STAND-BY DIESEL ELECTRIC SET SERVICE:

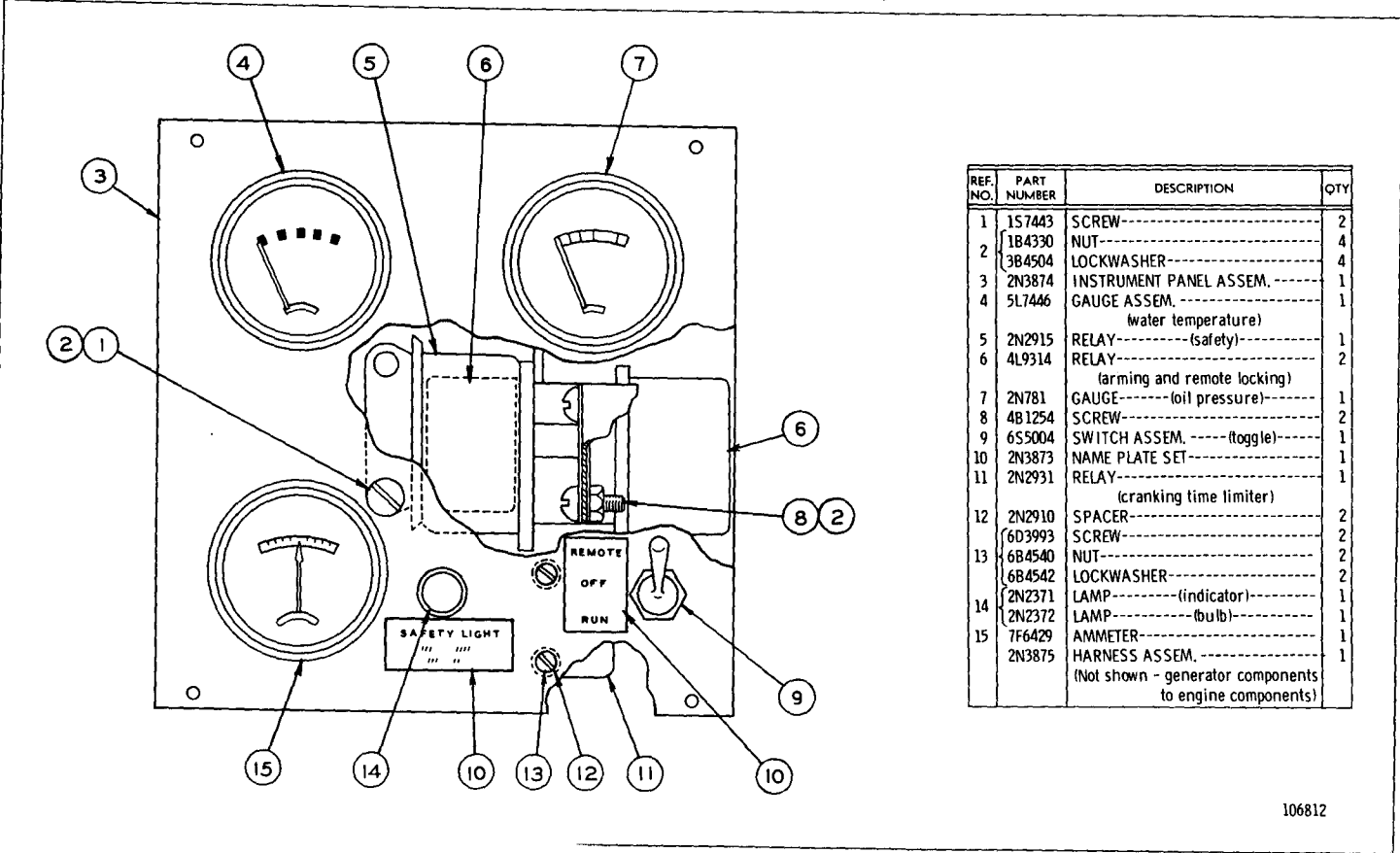
|          |       |          |          |       |
|----------|-------|----------|----------|-------|
| 75 KVA   | 60 KW | 0.8 P.F. | 1800 RPM | 60 Hz |
| 62.5 KVA | 50 KW | 0.8 P.F. | 1500 RPM | 50 Hz |

108534

2N2803 CONNECTIONS DIAGRAM PLATE  
Provides diagram for 8L6243 Generator Assembly

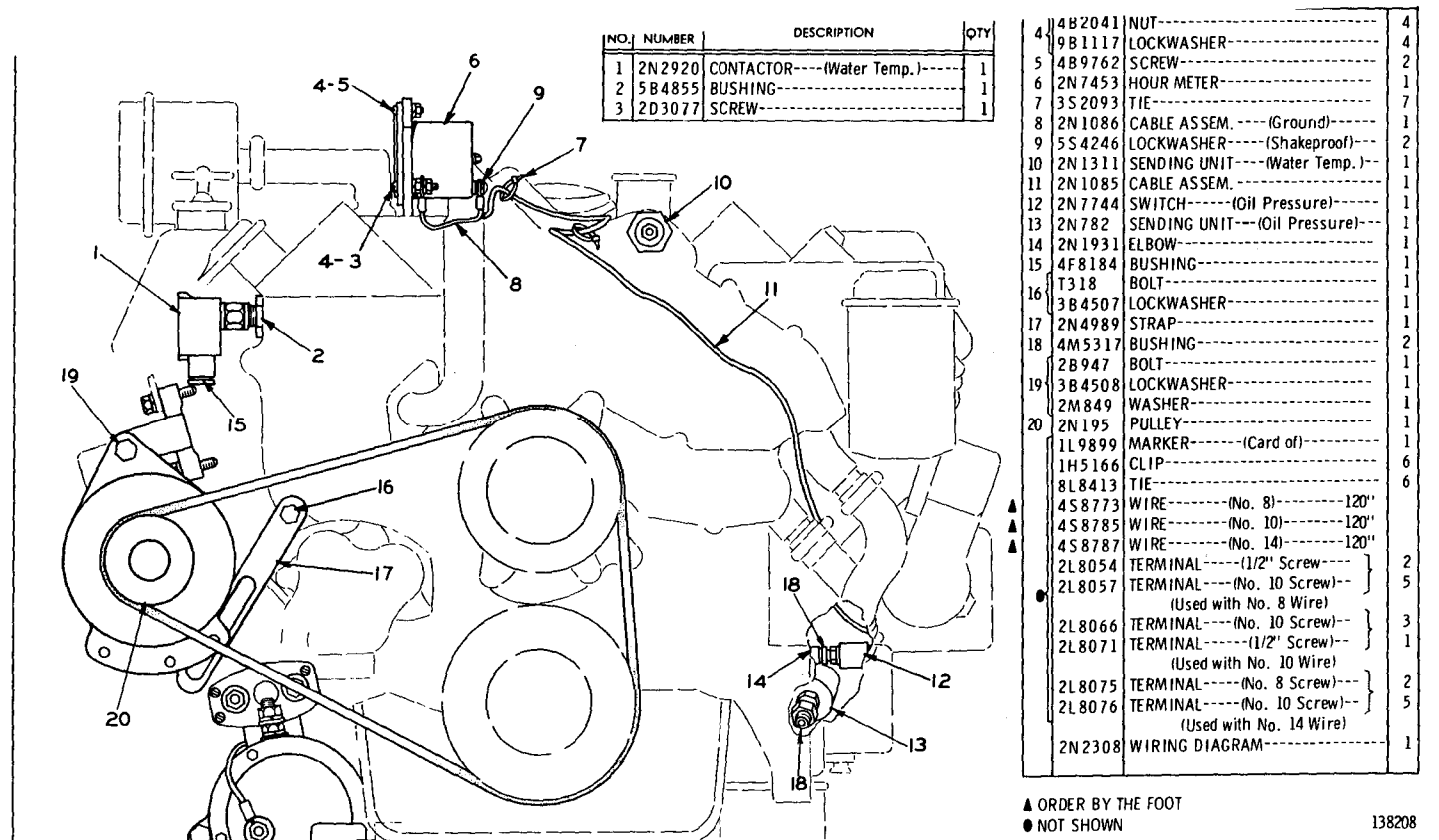
ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS

ELECTRICAL SYSTEM (2N2310 N/S)—Generator Mounted Components—12 Volt  
Part of 2N2218 Generator Group listed on Page 130



ATTACHMENT 1

AVC GIVE CRUISE



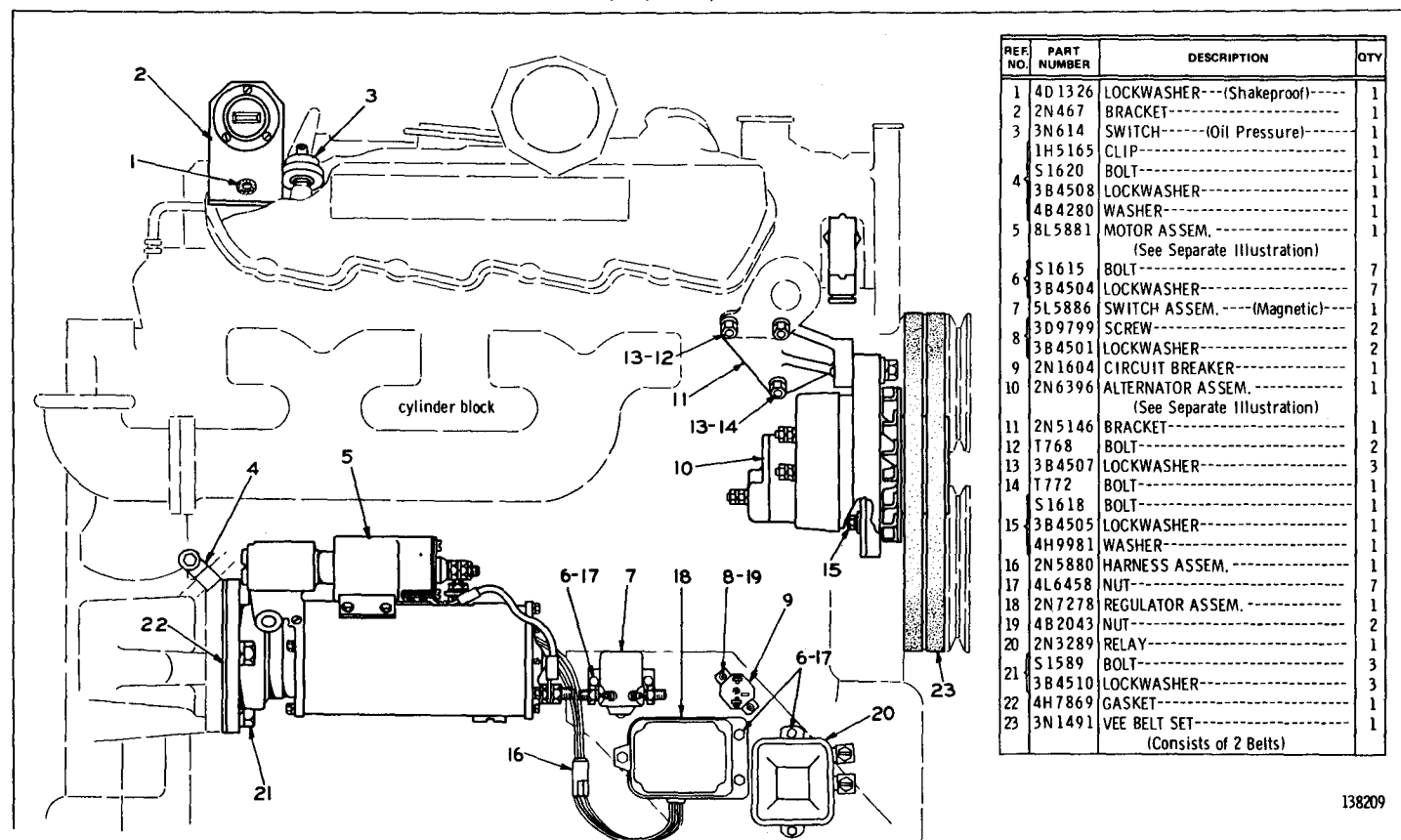
3N3353 ELECTRICAL SYSTEM—Engine Mounted Components—12 Volt—Part 1  
FOR USE WITH DIESEL ELECTRIC SETS  
Only separate parts serviced

▲ ORDER BY THE FOOT  
● NOT SHOWN

138208

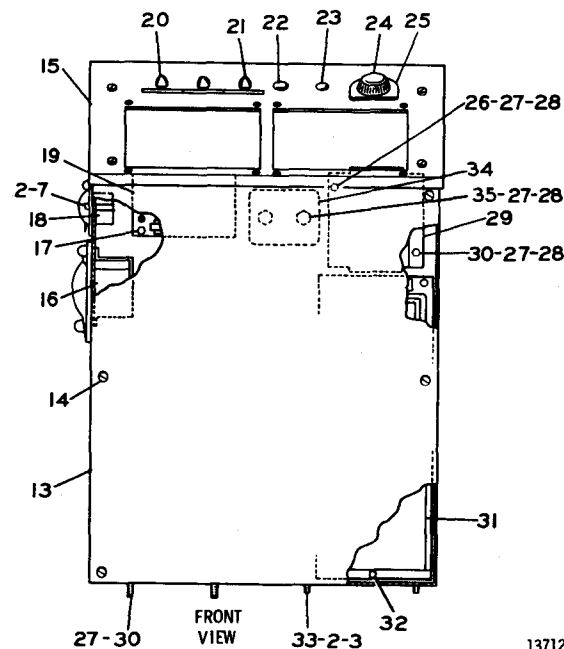
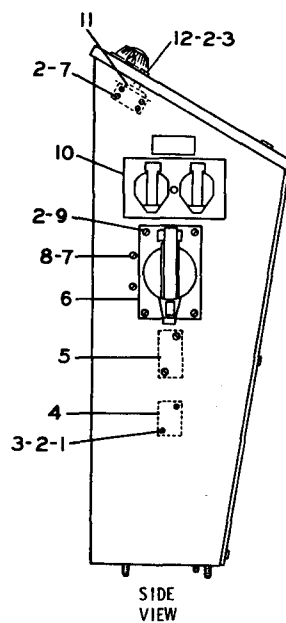
VALVEPILLAR 3145 ENGINE

3N3353 ELECTRICAL SYSTEM—Engine Mounted Components—12 Volt—Part 2  
 FOR USE WITH DIESEL ELECTRIC SETS  
 8L5881 Motor and 2N6396 Alternator parts are shown on Pages 110 through 113, 124 and 125  
 Only separate parts serviced



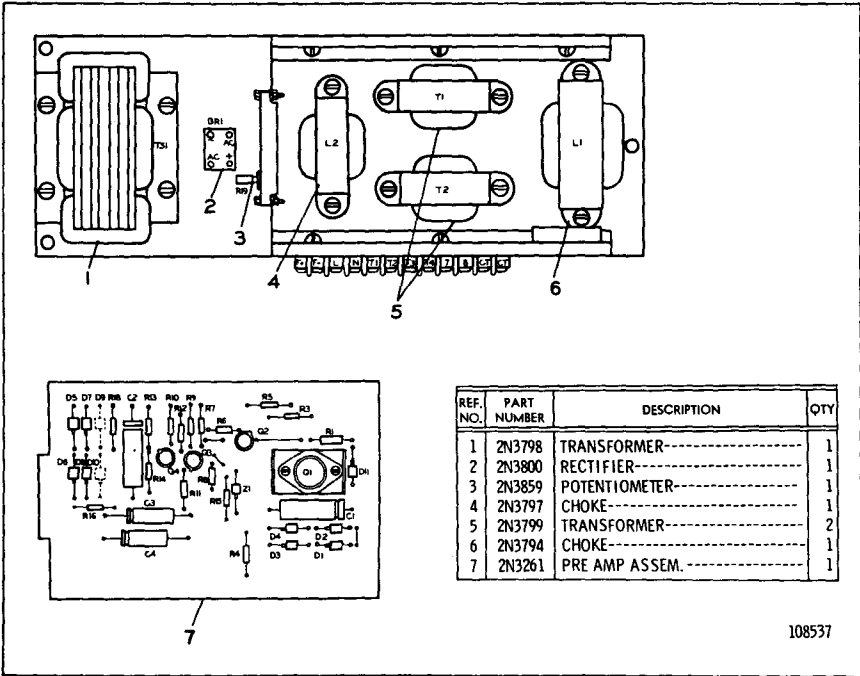
ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS

| REF. NO. | PART NUMBER | DESCRIPTION                  | QTY |
|----------|-------------|------------------------------|-----|
| 1        | 2N3476      | SCREW-----                   | 4   |
| 2        | 2N3512      | NUT AND LOCKWASHER ASSEM.--- | 32  |
| 3        | 5S7345      | WASHER-----                  | 10  |



|    |        |                                 |    |
|----|--------|---------------------------------|----|
| 4  | 2N3810 | TERMINAL STRIP-----             | 1  |
| 5  | 2L4932 | TERMINAL STRIP-----             | 1  |
| 6  | 2N3511 | COVER ASSEM.-----               | 1  |
| 7  | 2N3474 | SCREW-----                      | 22 |
| 8  | 9B1117 | LOCKWASHER-----                 | 4  |
| 9  | 2N3473 | SCREW-----                      | 4  |
| 10 | 2N3514 | COVER ASSEM.-----               | 1  |
| 11 | 2N3518 | SHOCKMOUNT-----                 | 4  |
| 12 | 2N3477 | SCREW-----                      | 4  |
| 13 | 2N3504 | BOX ASSEM.-----                 | 1  |
| 13 | 2N3506 | PANEL-----                      | 1  |
| 14 | 2N3474 | SCREW-----                      | 15 |
| 15 | 2N3505 | COVER ASSEM.-----               | 1  |
| 16 | 2N3510 | RECEPTACLE----(3 Phase)-----    | 1  |
| 17 | 2N3478 | SCREW-----                      | 4  |
| 17 | 8F1434 | LOCKWASHER-----                 | 4  |
| 18 | 2N3513 | RECEPTACLE----(1 Phase)-----    | 1  |
| 19 | 2N3509 | SENSING ASSEM.-----             | 1  |
| 20 | 2N3515 | LIGHT INDICATOR----(Amber)----- | 2  |
| 21 | 2N3516 | LIGHT INDICATOR----(Red)-----   | 1  |
| 22 | 3L4566 | PLUG-----                       | 1  |
| 23 | 2M4009 | PLUG-----                       | 1  |
| 24 | 2N3508 | KNOB-----                       | 1  |
| 25 | 2N3507 | RHEOSTAT-----                   | 1  |
| 26 | 2N3480 | SCREW-----                      | 1  |
| 27 | 8L9380 | NUT AND LOCKWASHER ASSEM.---    | 10 |
| 28 | 4B4274 | WASHER-----                     | 6  |
| 29 | 2N3517 | TRANSFORMER-----                | 1  |
| 30 | 2N3479 | SCREW-----                      | 7  |
| 31 | 2N3260 | REGULATOR ASSEM.-----           | 1  |
|    |        | (See Separate Illustration)     |    |
| 32 | 1B4330 | NUT-----                        | 3  |
| 32 | 3B4504 | LOCKWASHER-----                 | 3  |
| 32 | 4B4276 | WASHER-----                     | 3  |
| 33 | 2N3475 | SCREW-----                      | 2  |
| 34 | 2N7407 | BIAS DIODE ASSEM.-----          | 1  |
| 35 | 2N7456 | SCREW-----                      | 2  |
|    | 2N3328 | WIRING DIAGRAM-----             | 1  |

2N3458 CONTROL PANEL ASSEMBLY  
Effective with Generator Serial No. 63793-1  
Part of 8L6243 Generator Assembly shown on Page 131



2N3260 REGULATOR ASSEMBLY  
Part of 2N3458 Control Panel Assembly

| QUANTITY USED | PART NUMBER | DESCRIPTION                                                       |
|---------------|-------------|-------------------------------------------------------------------|
| 1             | 2N1336      | Plate--Warning and Information<br>On top of L.H. rocker arm cover |
| 1             | 3N3790      | Plate--Serial Number<br>On L.H. side of cylinder block            |
| 2             | 2N1569      | Transfer--3145 CATERPILLAR<br>On each side of rocker arm cover    |

NAME PLATES AND TRANSFERS

ON PARTS ONE "CATERPILLAR" PERFORMANC

# SPECIFICATIONS

(SUBJECT TO CHANGE WITHOUT NOTICE)

Weight, shipping (approximate) ..... 1200 Lbs.

## DIMENSIONS

Length ..... 36"  
Width ..... 32"  
Height ..... 34"

## CAPACITIES

lubrication: Engine: Gear Type Pump.  
Crankcase Capacity: With Filters ..... 3 U.S. Gal.  
Cooling System: Engine Only ..... 6.5 U.S. Gal.

## MACHINE SERIAL NUMBER PLATE LOCATION

number plate is located on the side of the cylinder block.

# CARACTÉRISTIQUES

(PEUVENT ÊTRE MODIFIÉES SANS PRÉAVIS)

Poids (approx.), en ordre d'expédition ..... 545 kg

## DIMENSIONS

Longueur ..... 915 mm  
Largeur ..... 810 mm  
Hauteur ..... 865 mm

## CONTENANCES

Circuit de graissage : alimentation par pompe à engrenages.

Contenance du carter avec filtres ..... 11 litres

Circuit de refroidissement (moteur seulement) ..... 25 litres

## EMPLACEMENT DU NUMÉRO DE SÉRIE

La plaque donnant le numéro de série est située sur le côté du bloc-cylindres.

# ESPECIFICACIONES

(SUJETAS A CAMBIO SIN PREVIO AVISO)

Peso de Embarque Aproximado ..... 545 kg

## DIMENSIONES

Longitud ..... 915 mm  
Ancho ..... 810 mm  
Alto ..... 865 mm

## CAPACIDADES

Lubricación: Motor con Bomba de Engranajes

Capacidad del Cáster: Con Filtros ..... 11 litros

Sistema de Enfriamiento: Motor Solamente ..... 25 litros

## UBICACION DE LA PLACA CON EL NUMERO DE SERIE DE LA MAQUINA

La placa con el número de serie está colocada en el costado del bloque del motor.

# ESPECIFICAÇÕES

(SUJEITAS A ALTERAÇÕES SEM AVISO PRÉVIO)

Pêso de embarque, aproximado ..... 545 kg

## DIMENSÕES

Comprimento ..... 915 mm  
Largura ..... 810 mm  
Altura ..... 865 mm

## QUANTIDADES CONTIDAS

Cárter do motor (bomba de engrenagens) com filtros ..... 11 litro  
Sistema de arrefecimento (só o motor) ..... 25 litro

## SITUAÇÃO DO NÚMERO DE SÉRIE

A placa do número de série fica no lado do bloco do motor.

# TECHNISCHE DATEN

(UNVERBINDLICH, ÄNDERUNGEN VORBEHALTEN)

Versandgewicht, etwa ..... 545 kg

## ABMESSUNGEN

Länge ..... 915 mm  
Breite ..... 810 mm  
Höhe ..... 865 mm

## FÜLLMENGEN

Schmierung: Motor: Zahnradpumpe

Kurbelgehäuse: (mit Filtern) ..... 11 l

Kühlsystem: (nur Motor) ..... 25 l

## LAGE DER SERIENNUMMERNSCHILDER

Das Seriennummernschild befindet sich am Motorblock.

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