



| Ref # | Part Number | Qty | Description                                   |
|-------|-------------|-----|-----------------------------------------------|
| 1     | 35385       |     | Cylinder (Incl. 2,20,72,72A) (3-1/8" Bore)    |
| 2     | 27652       |     | Pin, Dowel                                    |
| 3     | 650820      |     | Screw, 1/4-20 x 1/2"                          |
| 4     | 30968       |     | Nipple, Pipe                                  |
| 5     | 30969       |     | Cap, Oil drain                                |
| 15    | 30699C      |     | Rod Assy., Governor (Incl. 15A & 15B)         |
| 15B   | 650494      |     | Screw, 6-40 x 5/16"                           |
| 15A   | 30700       |     | Yoke, Governor                                |
| 16    | 33454       |     | Governor Lever Assy.                          |
| 17    | 29916       |     | Clamp, Governor lever                         |
| 18    | 650548      |     | Screw, 8-32 x 5/16"                           |
| 20    | 35319       |     | Seal, Oil                                     |
| 25    | 36460       |     | Baffle, Blower housing                        |
| 26    | 650561      |     | Screw, 1/4-20 x 5/8"                          |
| 30    | 35443A      |     | Crankshaft                                    |
| 35    | 29826       |     | Screw, 10-32 x 3/4"                           |
| 36    | 29918       |     | Lockwasher, # 8 E.T.                          |
| 37    | 29216       |     | Nut & Lockwasher, 10-32                       |
| 37A   | 30322       |     | Locknut, 8-32                                 |
| 38    | 29642       |     | Ring, Retaining                               |
| 40    | 34552       |     | Piston, Pin & Ring Set (Std.) (3-1/8" Bore)   |
| 40    | 34553       |     | Piston, Pin & Ring Set (.010" OS)             |
| 40    | 34554       |     | Piston, Pin & Ring Set (.020" OS)             |
| 41    | 34329A      |     | Piston & Pin Ass'y. (3-1/8")(Std.)(In cl. 43) |
| 41    | 34330A      |     | Piston & Pin Ass'y. (.010" OS) (Incl. 43)     |
| 41    | 34331A      |     | Piston & Pin Ass'y. (.020" OS) (Incl. 43)     |
| 42    | 34332       |     | Ring Set (Std.) (3-1/8" Bore)                 |
| 42    | 34333       |     | Ring Set (.010" OS)                           |
| 42    | 34334       |     | Ring Set (.020" OS)                           |
| 43    | 27888       |     | Ring, Piston pin retaining                    |
| 45    | 35373A      |     | Rod Assy., Connecting (Incl. 49)              |
| 46    | 650908      |     | Bolt, Connecting rod                          |
| 47    | 650882      |     | Bolt, Connecting rod                          |
| 48    | 34034       |     | Lifter, Valve                                 |
| 49    | 35374       |     | Dipper, Oil                                   |
| 50    | 35375       |     | Camshaft (MCR)                                |
| 60    | 33273A      |     | Extension, Blower housing                     |
| 61    | 34126       |     | Bracket, Grommet mounting                     |
| 62    | 650760      |     | Screw, 8-32 x 3/8"                            |
| 63    | 28545       |     | Grommet, Plastic                              |
| 65    | 650128      |     | Screw, 10-24 x 1/2"                           |
| 69    | 35262       |     | * Gasket, Cylinder cover                      |
| 70    | 35376       |     | Cover, Cylinder (Incl. 75, 80, 311 & 312)     |
| 71    | 35377       |     | Bushing, Crankshaft                           |
| 72    | 27642       |     | Plug, Oil drain                               |
| 75    | 35319       |     | Seal, Oil                                     |
| 80    | 31845       |     | Shaft, Mechanical governor                    |
| 81    | 30590A      |     | Washer, Flat                                  |
| 82    | 35378       |     | Gear Assy., Governor (Incl. 81)               |
| 83    | 30588A      |     | Spool, Governor                               |
| 84    | 29193       |     | Ring, Retaining                               |
| 86    | 650833      |     | Screw, 1/4-20 x 1-3/16"                       |
| 87    | 650832      |     | Screw, 1/4-20 x 1-11/16"                      |
| 89    | 32589       |     | Key, Flywheel                                 |
| 90    | 611091      |     | Flywheel (w/ring gear)                        |
| 92    | 650880      |     | Washer, Belleville                            |
| 93    | 650881      |     | Hex Nut, 5/8-18                               |
| 100   | 35135       |     | Lamination Assy., Solid State                 |

| Ref # | Part Number | Qty | Description                                                   |
|-------|-------------|-----|---------------------------------------------------------------|
| 102   | 650872      |     | Stud, Lamination mounting                                     |
| 103   | 650814      |     | Screw, Torx T-15, 10-24 x 1"                                  |
| 119   | 34041A      |     | * Gasket, Head                                                |
| 120   | 34030A      |     | Head, Cylinder                                                |
| 125   | 27878A      |     | Exhaust Valve (Std.) (Incl. 151)                              |
| 125   | 27880A      |     | Exhaust Valve (1/32" OS) (Incl. 151)                          |
| 126   | 34035       |     | Intake Valve (Std.) (Incl. 151)                               |
| 126   | 34036       |     | Intake Valve (1/32" OS) (Incl. 151)                           |
| 127   | 650691      |     | Washer (Use as req., but not w/6021A screw)                   |
| 128   | 650690      |     | Washer, Belleville                                            |
| 129   | 650727      |     | Screw, 5/16-18 x 1-3/4" (Use as required)                     |
| 130   | 650694A     |     | Screw, 5/16-18 x 2" (Use as required)                         |
| 130A  | 6021A       |     | Screw, 5/16-18 x 1-1/2" (Use as req.,but not w/650691 washer) |
| 131A  | 650713      |     | Screw, 5/16-18 x 5/8" (Use as required)                       |
| 135   | 35395       |     | Resistor Spark Plug (RJ19LM)                                  |
| 139   | 33369       |     | Bracket, Governor gear                                        |
| 140   | 650836      |     | Screw, 10-24 x 1/2"                                           |
| 149   | 27882       |     | Cap, Upper valve spring                                       |
| 149A  | 27882       |     | Cap, Upper valve spring                                       |
| 149A  | 35862       |     | Seal Assy., Intake valve                                      |
| 150   | 27881       |     | Spring, Valve                                                 |
| 151   | 32581       |     | Cap, Lower valve spring                                       |
| 169   | 27896A      |     | * Gasket, Breather cover                                      |
| 170   | 28423       |     | Body, Breather                                                |
| 171   | 28424       |     | Element, Breather                                             |
| 172   | 28425       |     | Cover, Valve spring                                           |
| 173   | 35350       |     | Tube, Breather                                                |
| 178   | 29752       |     | Nut & Lockwasher, 1/4-28                                      |
| 182   | 30088A      |     | Screw, 1/4-28 x 1"                                            |
| 183   | 34587       |     | Bracket, Choke                                                |
| 184   | 33263       |     | * Gasket, Carburetor                                          |
| 185   | 33877       |     | Pipe, Intake                                                  |
| 186A  | 34667       |     | Link, Governor                                                |
| 200   | 34677       |     | Control Bracket (Incl. 203, 204, 206 & 209)                   |
| 203   | 31342       |     | Spring, Compression                                           |
| 204   | 650549      |     | Screw, 5-40 x 7/16"                                           |
| 206   | 610973      |     | Terminal Assy. (Use as required)                              |
| 207   | 33878       |     | Link, Governor-to-throttle                                    |
| 209   | 650821      |     | Screw, 10-32 x 1/2"                                           |
| 211   | 28820       |     | Screw, 10-32 x 1/2"                                           |
| 215   | 35440       |     | Knob, Control                                                 |
| 219   | 34586       |     | Rod, Choke                                                    |
| 220   | 35438       |     | Knob, Control                                                 |
| 222   | 28820       |     | Screw, 10-32 x 1/2"                                           |
| 223   | 650378      |     | Screw, Torx T-30, 5/16-18 x 1-1/8"                            |
| 224   | 27915A      |     | * Gasket, Intake pipe                                         |
| 260   | 35447A      |     | Blower Housing (For electric starter)                         |
| 261   | 650788      |     | Screw, 5/16-18 x 3/4"                                         |
| 262   | 29747B      |     | Screw, 5/16-24 x 21/32"                                       |
| 265   | 33272B      |     | Cover, Cylinder head                                          |
| 275   | 35056       |     | Muffler                                                       |
| 276   | 35740       |     | Plate, Muffler locking                                        |
| 277   | 651002      |     | Screw, 5/16-18 x 4-3/16"                                      |
| 281   | 33013       |     | Cover, Starter bubble                                         |
| 282   | 650760      |     | Screw, 8-32 x 3/8"                                            |
| 285   | 35287       |     | Cup, Starter                                                  |

## Engine Parts List #1

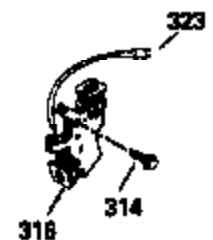
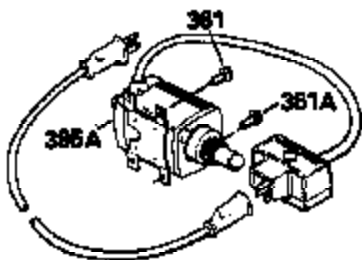
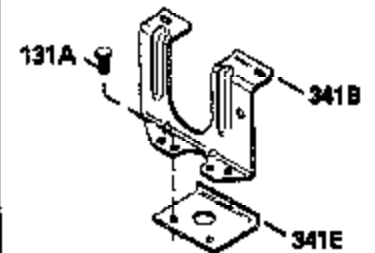
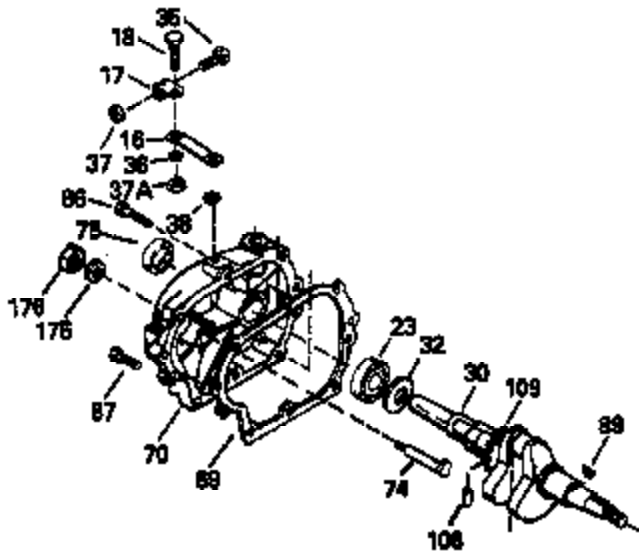
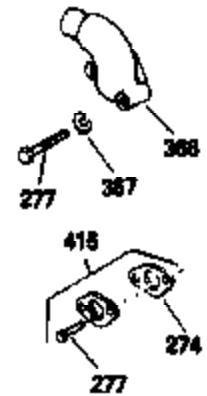
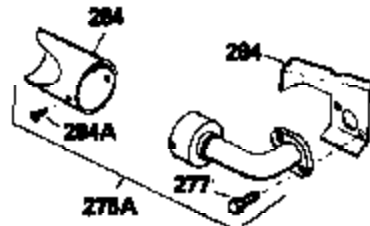
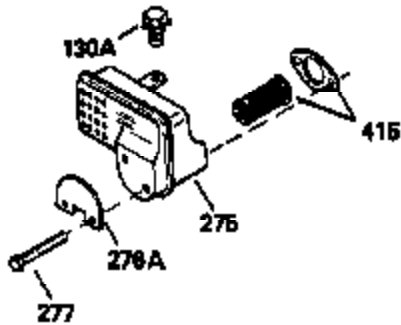
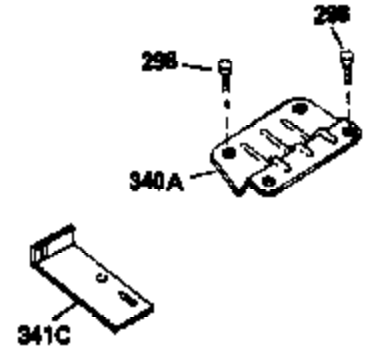
| Ref # | Part Number | Qty | Description                                                                                                                                                                                                      |
|-------|-------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 286   | 35446       |     | Screen, Starter (Stationary)                                                                                                                                                                                     |
| 287   | 29752       |     | Nut & Lockwasher, 1/4-28                                                                                                                                                                                         |
| 290   | 30705       |     | Fuel Line (Braided 16") (41 cm)                                                                                                                                                                                  |
| 292   | 26460       |     | Clamp, Fuel line                                                                                                                                                                                                 |
| 298   | 650665      |     | Screw, 1/4-15 x 7/8"                                                                                                                                                                                             |
| 300   | 34156A      |     | Fuel Tank (Incl. 292 & 301) NOTE: These tanks were built with different size fuel inlet openings. Tanks with the 1-3/16" I.D. opening use fuel cap 34210. Tanks with the 1-1/2" I.D. opening use fuel cap 35355. |
| 301   | 35355       |     | Fuel Cap                                                                                                                                                                                                         |
| 305   | 35554       |     | Tube, Oil fill                                                                                                                                                                                                   |
| 306   | 35499       |     | "O" Ring                                                                                                                                                                                                         |
| 308   | 35540       |     | Clip, Fill tube                                                                                                                                                                                                  |
| 310   | 35555       |     | Dipstick                                                                                                                                                                                                         |
| 325B  | 29443       |     | Clip, Fuel line (Use as required)                                                                                                                                                                                |
| 325   | 34246       |     | Clip, Ground wire (Use as required)                                                                                                                                                                              |
| 327   | 35392       |     | Plug, Starter                                                                                                                                                                                                    |
| 328   | 35593       |     | Key, Push in switch                                                                                                                                                                                              |
| 329   | 610973      |     | Terminal Assy.                                                                                                                                                                                                   |
| 330   | 35305       |     | Wire, Ground                                                                                                                                                                                                     |
| 330   | 34069       |     | Wire Harness (6-3/4") (7 Amp)                                                                                                                                                                                    |
| 337   | 35057A      |     | Cover, Carburetor                                                                                                                                                                                                |
| 338   | 28942       |     | Screw, 10-32 x 3/8"                                                                                                                                                                                              |
| 340   | 34154       |     | Plate, Fuel tank mounting                                                                                                                                                                                        |
| 342   | 650561      |     | Screw, 1/4-20 x 5/8"                                                                                                                                                                                             |
| 350   | 570682      |     | Primer Assy.                                                                                                                                                                                                     |
| 351   | 32180C      |     | Primer Line                                                                                                                                                                                                      |
| 355   | 590574      |     | Handle, Mitten grip                                                                                                                                                                                              |
| 356   | 650168      |     | Washer, Flat                                                                                                                                                                                                     |
| 364   | 33377       |     | Bracket, Carburetor cover mounting                                                                                                                                                                               |
| 365   | 650767      |     | Screw, 8-32 x 27/64"                                                                                                                                                                                             |
| 370J  | 34870       |     | Decal, Instruction Can be used on HM80 with diecast starter.                                                                                                                                                     |
| 370   | 34416       |     | Decal, Instruction                                                                                                                                                                                               |
| 370   | 35274       |     | Decal, Instruction                                                                                                                                                                                               |
| 370A  | 34686       |     | Decal, Name                                                                                                                                                                                                      |
| 370B  | 34387       |     | Decal, Instruction Can be used on HM80 with stamped steel recoil starter.                                                                                                                                        |
| 370C  | 34417       |     | Decal, Primer                                                                                                                                                                                                    |
| 370E  | 35077       |     | Decal, Instruction                                                                                                                                                                                               |
| 379   | 631021      |     | Inlet Needle, Seat & Clip Assy.                                                                                                                                                                                  |
| 380   | 632334A     |     | Carburetor (Incl. 184) (Refer to Division 5, Section A, page A3-10 for breakdown or Fiche 18A-2, Grid F-3)                                                                                                       |
| 390   | 590630      |     | Rewind Starter (Refer to Division 5, Section C, page 30 for breakdown or Fiche 18A-2, Grid G-1)                                                                                                                  |
| 400   | 33279G      |     | Gasket Set (Incl. items marked*)                                                                                                                                                                                 |
| 407   | 35836       |     | Fill Tube & Dipstick Assy. (Incl. 306 & 308)                                                                                                                                                                     |
| 420   | 730225      |     | SAE 30, 4-Cycle Engine Oil (Quart)                                                                                                                                                                               |
| 421   | 730226      |     | SAE 5W30, 4-Cycle Engine Oil (Quart)                                                                                                                                                                             |

ILLUSTRATION SHOWS TYPICAL PARTS ONLY. ORDER BY PART NUMBER. PARTS NOT LISTED ARE SUPPLIED BY OEM.



| Ref # | Part Number | Qty | Description                                                                                                |
|-------|-------------|-----|------------------------------------------------------------------------------------------------------------|
| 1     | 35385       |     | Cylinder (Incl. 2,20,72,72A) (3-1/8" Bore)                                                                 |
| 2     | 27652       |     | Pin, Dowel                                                                                                 |
| 3     | 650820      |     | Screw, 1/4-20 x 1/2"                                                                                       |
| 4     | 30968       |     | Nipple, Pipe                                                                                               |
| 72    | 27642       |     | Plug, Oil drain                                                                                            |
| 169   | 27896A      |     | * Gasket, Breather cover                                                                                   |
| 170   | 28423       |     | Body, Breather                                                                                             |
| 171   | 28424       |     | Element, Breather                                                                                          |
| 172   | 28425       |     | Cover, Valve spring                                                                                        |
| 173   | 35350       |     | Tube, Breather                                                                                             |
| 178   | 29752       |     | Nut & Lockwasher, 1/4-28                                                                                   |
| 207   | 33878       |     | Link, Governor-to-throttle                                                                                 |
| 227   | 730127      |     | Air Cleaner Ass'y. (Incl. 238, 239, 240, 241, 243, 245 & 370)(Use as required)                             |
| 227   | 730164      |     | Air Cleaner Ass'y. (Incl. 238, 239, 240, 241, 243 & 245) (Use as required)                                 |
| 228   | 650824      |     | Stud, 1/4-20 x 7.33 (Use as required)                                                                      |
| 228   | 650851      |     | Stud, 1/4-20 x 8.1 (Use as required)(Used with drilled thru elbow)                                         |
| 275   | 35056       |     | Muffler                                                                                                    |
| 276   | 35740       |     | Plate, Muffler locking                                                                                     |
| 277   | 651002      |     | Screw, 5/16-18 x 4-3/16"                                                                                   |
| 292   | 26460       |     | Clamp, Fuel line                                                                                           |
| 305   | 35554       |     | Tube, Oil fill                                                                                             |
| 306   | 35499       |     | "O" Ring                                                                                                   |
| 370J  | 34870       |     | Decal, Instruction Can be used on HM80 with diecast starter.                                               |
| 370B  | 34387       |     | Decal, Instruction Can be used on HM80 with stamped steel recoil starter.                                  |
| 370C  | 34417       |     | Decal, Primer                                                                                              |
| 380   | 632334A     |     | Carburetor (Incl. 184) (Refer to Division 5, Section A, page A3-10 for breakdown or Fiche 18A-2, Grid F-3) |

ILLUSTRATION SHOWS TYPICAL PARTS ONLY. ORDER BY PART NUMBER. PARTS NOT LISTED ARE SUPPLIED BY OEM.



| Ref # | Part Number | Qty | Description                                                   |
|-------|-------------|-----|---------------------------------------------------------------|
| 16    | 33454       |     | Governor Lever Assy.                                          |
| 17    | 29916       |     | Clamp, Governor lever                                         |
| 18    | 650548      |     | Screw, 8-32 x 5/16"                                           |
| 30    | 35443A      |     | Crankshaft                                                    |
| 35    | 29826       |     | Screw, 10-32 x 3/4"                                           |
| 36    | 29918       |     | Lockwasher, # 8 E.T.                                          |
| 37    | 29216       |     | Nut & Lockwasher, 10-32                                       |
| 37A   | 30322       |     | Locknut, 8-32                                                 |
| 38    | 29642       |     | Ring, Retaining                                               |
| 69    | 35262       |     | * Gasket, Cylinder cover                                      |
| 70    | 35376       |     | Cover, Cylinder (Incl. 75, 80, 311 & 312)                     |
| 75    | 35319       |     | Seal, Oil                                                     |
| 86    | 650833      |     | Screw, 1/4-20 x 1-3/16"                                       |
| 87    | 650832      |     | Screw, 1/4-20 x 1-11/16"                                      |
| 89    | 32589       |     | Key, Flywheel                                                 |
| 130A  | 6021A       |     | Screw, 5/16-18 x 1-1/2" (Use as req.,but not w/650691 washer) |
| 131A  | 650713      |     | Screw, 5/16-18 x 5/8" (Use as require d)                      |
| 131   | 650802      |     | Screw, 1/4-20 x 5/8" (Use as required )                       |
| 131   | 650738      |     | Screw, 1/4-20 x 5/8 (Use as required)                         |
| 274   | 35865       |     | Gasket, Exhaust (Use as required)                             |
| 275   | 35056       |     | Muffler                                                       |
| 277   | 651002      |     | Screw, 5/16-18 x 4-3/16"                                      |
| 298   | 650665      |     | Screw, 1/4-15 x 7/8"                                          |
| 301   | 35355       |     | Fuel Cap                                                      |
| 341C  | 34155       |     | Bracket, Fuel tank mounting                                   |
| 369   | 35857       |     | Valve, Fuel shut-off                                          |
| 370J  | 34870       |     | Decal, Instruction Can be used on HM80 with diecast starter.  |
| 415   | 730130      |     | Exh.Adaptor Kit (Incl.274,277)(As req uired)                  |

ILLUSTRATION SHOWS TYPICAL PARTS ONLY. ORDER BY PART NUMBER. PARTS NOT LISTED ARE SUPPLIED BY OEM.



STD. POINT



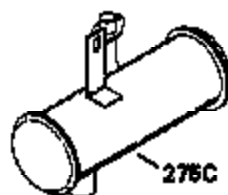
OPTIONAL  
DEBRIS SCREEN KIT



OPTIONAL  
STARTER MUFF KIT



OPTIONAL  
SPARK ARRESTOR KIT



OPTIONAL  
QUIET MUFFLER



OPTIONAL  
ADD-ON ALTERNATOR  
AC LIGHTING OR DC CHARGING

| Ref # | Part Number | Qty | Description                                                                                                                                             |
|-------|-------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 103   | 650814      |     | Screw, Torx T-15, 10-24 x 1"                                                                                                                            |
| 275C  | 35824       |     | Muffler (Optional quiet muffler)                                                                                                                        |
| 277A  | 650696      |     | Screw, 5/16-18 x 2-3/4" (Used with 27 6A)                                                                                                               |
| 301   | 35355       |     | Fuel Cap                                                                                                                                                |
| 327   | 35392       |     | Plug, Starter                                                                                                                                           |
| 342   | 650561      |     | Screw, 1/4-20 x 5/8"                                                                                                                                    |
| 370J  | 34870       |     | Decal, Instruction Can be used on HM80 with diecast starter.                                                                                            |
| 370B  | 34387       |     | Decal, Instruction Can be used on HM80 with stamped steel recoil starter.                                                                               |
| 390   | 590630      |     | Rewind Starter (Refer to Division 5, Section C, page 30 for breakdown or Fiche 18A-2, Grid G-1)                                                         |
| 408   | 35570       |     | Seal, Screen (Can be used on HM80 with stamped steel recoil starter.)                                                                                   |
| 409   | 35569       |     | Spacer, Screen                                                                                                                                          |
| 410   | 730573      |     | Debris Screen Kit (Incl. 327, 370B, 408, 409, 411 & 413)                                                                                                |
| 411   | 35568       |     | Screen, Debris                                                                                                                                          |
| 413   | 650907      |     | Screw, 5/16-18 x 1-5/8" (Can be used on HM80 with stamped steel recoil starter)                                                                         |
| 415   | 730130      |     | Exh.Adaptor Kit (Incl.274,277)(As required)                                                                                                             |
| 425   | 730572      |     | Starter Muff Kit (Incl. 370J, 426 & 4 27)                                                                                                               |
| 426   | 34687       |     | Air cleaner, Starter                                                                                                                                    |
| 427   | 34869       |     | Starter Air Cleaner Bracket (Optional )                                                                                                                 |
| 429   | 650868      |     | Screw, 8-18 x 1-1/8" (3 Required)                                                                                                                       |
| 430   | 611077      |     | Alternator, Add on                                                                                                                                      |
| 431   | 590609      |     | Centering tube (Use with engines equipped with diecast aluminum starter)                                                                                |
| 431   | 590610      |     | Centering tube                                                                                                                                          |
| 432   | 611078      |     | A.C. Lighting Connector                                                                                                                                 |
| 432   | 611079      |     | D.C. Charging Connector                                                                                                                                 |
| 433   | 590611      |     | Alternator Shaft (4.00") (Use with engines equipped with diecast aluminum starter)                                                                      |
| 433   | 590636      |     | Alternator Shaft (Use with engines equipped with stamped steel starter) (Use as required) (Refer to Mechanic's Handbook for installation instructions). |