



| Ref # | Part Number | Qty | Description                                   |
|-------|-------------|-----|-----------------------------------------------|
| 1     | 35385       |     | Cylinder (Incl. 2,20,72,72A) (3-1/8" Bore)    |
| 2     | 27652       |     | Pin, Dowel                                    |
| 4     | 30968       |     | Nipple, Pipe                                  |
| 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    | 35420A      |     | 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                     |
| 65    | 650128      |     | Screw, 10-24 x 1/2"                           |
| 69    | 35262       |     | * Gasket, Cylinder cover                      |
| 70    | 33626B      |     | Cyl.Cover(Incl.71,74,75,80,175,176,31 1,312)  |
| 72    | 27642       |     | Plug, Oil drain                               |
| 75    | 33625       |     | 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    | 611094      |     | Flywheel (7 amp, w/ring gear)                 |
| 92    | 650880      |     | Washer, Belleville                            |
| 93    | 650881      |     | Hex Nut, 5/8-18                               |
| 100   | 35135       |     | Lamination Assy., Solid State                 |
| 102   | 650872      |     | Stud, Lamination mounting                     |
| 103   | 650814      |     | Screw, Torx T-15, 10-24 x 1"                  |
| 110   | 35187       |     | Ground Wire                                   |
| 119   | 34041A      |     | * Gasket, Head                                |
| 120   | 34030A      |     | Head, Cylinder                                |
| 125   | 27878A      |     | Exhaust Valve (Std.) (Incl. 151)              |

| Ref # | Part Number | Qty | Description                                                                                                                                                                                                      |
|-------|-------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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)                                                                                                                                                                        |
| 130A  | 6021A       |     | Screw, 5/16-18 x 1-1/2" (Use as req.,but not w/650691 washer)                                                                                                                                                    |
| 130   | 650694A     |     | Screw, 5/16-18 x 2" (Use as required)                                                                                                                                                                            |
| 131A  | 650713      |     | Screw, 5/16-18 x 5/8" (Use as required)                                                                                                                                                                          |
| 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                                                                                                                                                                                              |
| 173A  | 32446       |     | Grommet, Breather tube                                                                                                                                                                                           |
| 173   | 34696       |     | Tube, Breather                                                                                                                                                                                                   |
| 174   | 650128      |     | Screw, 10-24 x 1/2"                                                                                                                                                                                              |
| 178   | 29752       |     | Nut & Lockwasher, 1/4-28                                                                                                                                                                                         |
| 182   | 30088A      |     | Screw, 1/4-28 x 1"                                                                                                                                                                                               |
| 184   | 33263       |     | * Gasket, Carburetor                                                                                                                                                                                             |
| 185   | 34707       |     | Pipe, Intake                                                                                                                                                                                                     |
| 186A  | 34667       |     | Link, Governor                                                                                                                                                                                                   |
| 200   | 34664       |     | 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"                                                                                                                                                                                              |
| 210   | 27793       |     | Clip, Conduit                                                                                                                                                                                                    |
| 211   | 28942       |     | Screw, 10-32 x 3/8"                                                                                                                                                                                              |
| 223   | 650378      |     | Screw, Torx T-30, 5/16-18 x 1-1/8"                                                                                                                                                                               |
| 224   | 27915A      |     | * Gasket, Intake pipe                                                                                                                                                                                            |
| 225   | 35043       |     | Tube, Carburetor                                                                                                                                                                                                 |
| 260   | 34833B      |     | 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   | 34185A      |     | Muffler (Spark Arresting)                                                                                                                                                                                        |
| 276   | 35740       |     | Plate, Muffler locking                                                                                                                                                                                           |
| 277   | 650729      |     | Screw, 5/16-18 x 3-3/16"                                                                                                                                                                                         |
| 285   | 35287       |     | Cup, Starter                                                                                                                                                                                                     |
| 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. |

## Engine Parts List #1

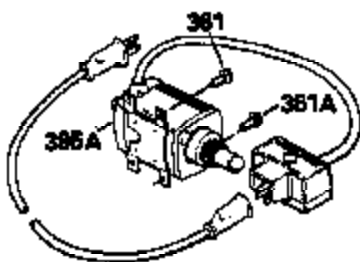
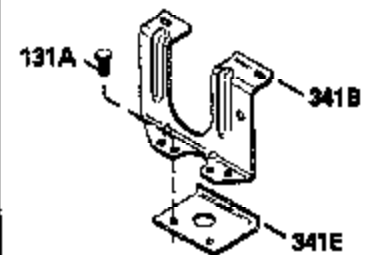
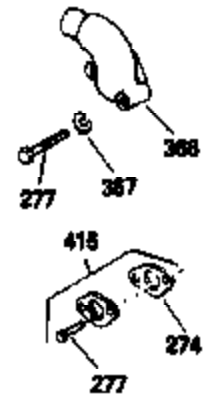
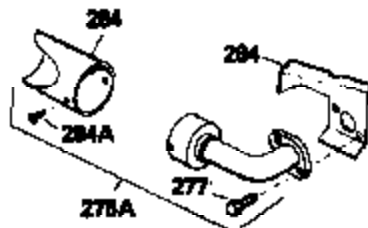
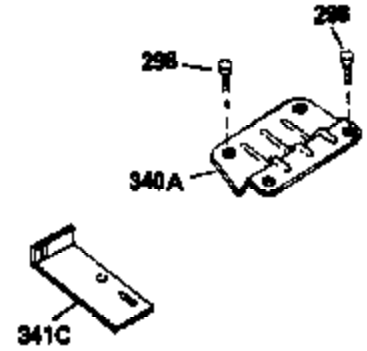
| Ref # | Part Number | Qty | Description                                                                                                                                                                                                  |
|-------|-------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 301   | 35355       |     | Fuel Cap                                                                                                                                                                                                     |
| 305   | 35554       |     | Tube, Oil fill                                                                                                                                                                                               |
| 306   | 29673       |     | * Gasket, Oil fill                                                                                                                                                                                           |
| 306   | 35499       |     | "O" Ring                                                                                                                                                                                                     |
| 308   | 35540       |     | Clip, Fill tube                                                                                                                                                                                              |
| 310A  | 35941       |     | Dipstick (Incl. 306)                                                                                                                                                                                         |
| 325   | 34246       |     | Clip, Ground wire (Use as required)                                                                                                                                                                          |
| 325B  | 29443       |     | Clip, Fuel line (Use as required)                                                                                                                                                                            |
| 327   | 35392       |     | Plug, Starter                                                                                                                                                                                                |
| 329   | 610973      |     | Terminal Assy.                                                                                                                                                                                               |
| 330   | 34069       |     | Wire Harness (6-3/4") (7 Amp)                                                                                                                                                                                |
| 336   | 650765      |     | Screw, 10-32 x 1/2"                                                                                                                                                                                          |
| 340   | 34154       |     | Plate, Fuel tank mounting                                                                                                                                                                                    |
| 342   | 650561      |     | Screw, 1/4-20 x 5/8"                                                                                                                                                                                         |
| 361   | 650820      |     | Screw, 1/4-20 x 1/2"                                                                                                                                                                                         |
| 361A  | 30063       |     | Screw, Torx T-30, 1/4-20 x 1/2"                                                                                                                                                                              |
| 370A  | 35532       |     | Decal, Name                                                                                                                                                                                                  |
| 370B  | 34387       |     | Decal, Instruction Can be used on HM80 with stamped steel recoil starter.                                                                                                                                    |
| 370B  | 34704       |     | Decal, Air cleaner                                                                                                                                                                                           |
| 370   | 35274       |     | Decal, Instruction                                                                                                                                                                                           |
| 370J  | 34870       |     | Decal, Instruction Can be used on HM80 with diecast starter.                                                                                                                                                 |
| 379   | 631021      |     | Inlet Needle, Seat & Clip Assy.                                                                                                                                                                              |
| 380   | 632325      |     | Carburetor (Incl. 184) (Refer to Division 5, Section A, page A3-14 for breakdown or Fiche 18A-2, Grid F-7)                                                                                                   |
| 390A  | 590685      |     | Rewind Starter (Refer to Division 5, Section C, page 30 for breakdown or Fiche 18A-2, Grid G-1)                                                                                                              |
| 395   | 35763A      |     | Electric Starter Motor (12 Volt) (Refer to service number stamped on end cap of motor, or on decal, for identification. Refer to Division 5, Section D, for breakdown or Fiche 18A-2, Grids G-4, G-5 or G-6) |
| 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                                                                                                 |
| 4     | 30968       |     | Nipple, Pipe                                                                                               |
| 72    | 27642       |     | Plug, Oil drain                                                                                            |
| 110   | 35187       |     | Ground Wire                                                                                                |
| 169   | 27896A      |     | * Gasket, Breather cover                                                                                   |
| 170   | 28423       |     | Body, Breather                                                                                             |
| 171   | 28424       |     | Element, Breather                                                                                          |
| 172   | 28425       |     | Cover, Valve spring                                                                                        |
| 173   | 34696       |     | Tube, Breather                                                                                             |
| 174   | 650128      |     | Screw, 10-24 x 1/2"                                                                                        |
| 178   | 29752       |     | Nut & Lockwasher, 1/4-28                                                                                   |
| 207   | 33878       |     | Link, Governor-to-throttle                                                                                 |
| 222A  |             |     | Pop Rivet (1/8" dia.) (Purchase local ly)                                                                  |
| 227A  | 35044       |     | Air Cl.Elbow (Incl.222A,228,235,239A & 242A)                                                               |
| 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)                                         |
| 229   | 650825      |     | Nut & Lockwasher, 1/4-20                                                                                   |
| 234   | 650852      |     | Nut, 1/4-20 (Used with drilled thru e lbow)                                                                |
| 235   | 30675       |     | Fitting, Breather                                                                                          |
| 238   | 650163      |     | Screw, 10-32 x 7/8"                                                                                        |
| 239A  | 34698A      |     | * Gasket, Air cleaner bracket                                                                              |
| 239   | 27272A      |     | * Gasket, Air cleaner                                                                                      |
| 241A  | 35045       |     | A/C Bracket (Used with drilled thru e lbow)                                                                |
| 242A  | 34699       |     | Bracket, Air cleaner                                                                                       |
| 243   | 28820       |     | Screw, 10-32 x 1/2"                                                                                        |
| 245A  | 34700       |     | Element, Air cleaner                                                                                       |
| 246A  | 34703       |     | Filter, Pre-air                                                                                            |
| 250A  | 35602       |     | Cover, Air cleaner                                                                                         |
| 251   | 650513      |     | Nut, Wing, 1/4-20                                                                                          |
| 275   | 34185A      |     | Muffler (Spark Arresting)                                                                                  |
| 276   | 35740       |     | Plate, Muffler locking                                                                                     |
| 277   | 650729      |     | Screw, 5/16-18 x 3-3/16"                                                                                   |
| 292   | 26460       |     | Clamp, Fuel line                                                                                           |
| 305   | 35554       |     | Tube, Oil fill                                                                                             |
| 306   | 29673       |     | * Gasket, Oil fill                                                                                         |
| 306   | 35499       |     | "O" Ring                                                                                                   |
| 310A  | 35941       |     | Dipstick (Incl. 306)                                                                                       |
| 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.                                  |
| 370B  | 34704       |     | Decal, Air cleaner                                                                                         |
| 380   | 632325      |     | Carburetor (Incl. 184) (Refer to Division 5, Section A, page A3-14 for breakdown or Fiche 18A-2, Grid F-7) |

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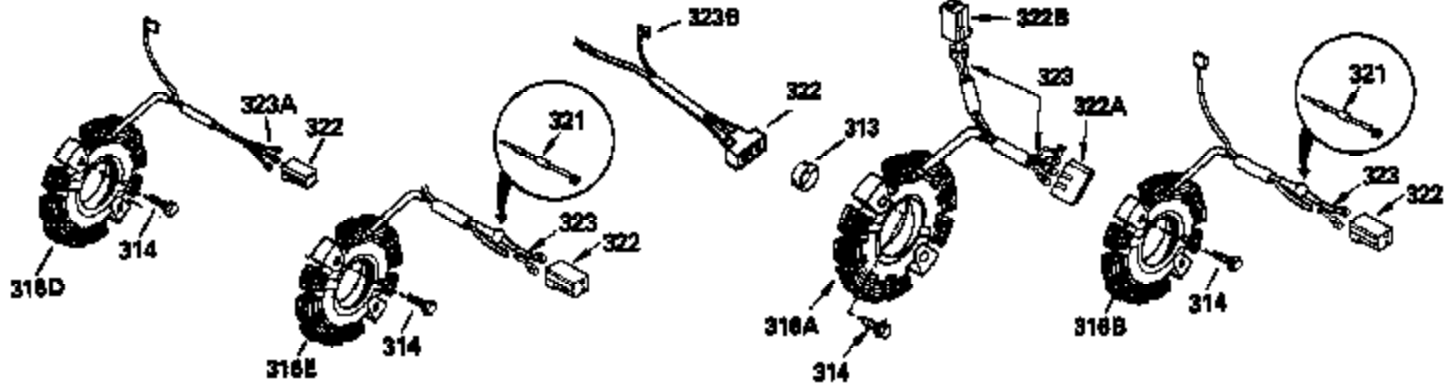
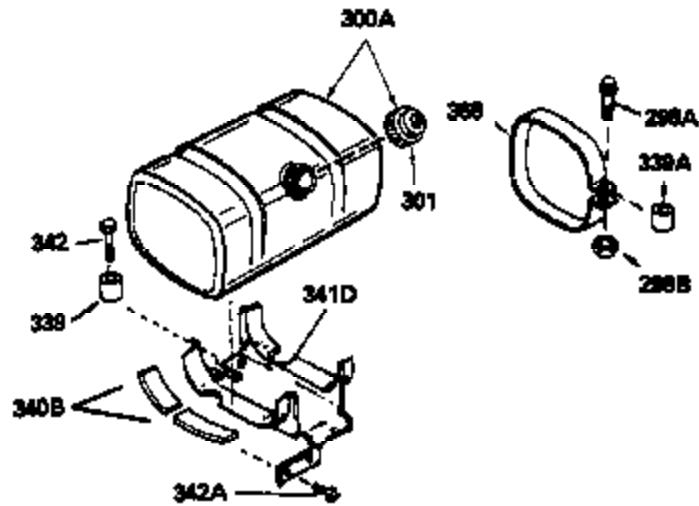


| Ref # | Part Number | Qty | Description                                                   |
|-------|-------------|-----|---------------------------------------------------------------|
| 16    | 33454       |     | Governor Lever Assy.                                          |
| 17    | 29916       |     | Clamp, Governor lever                                         |
| 18    | 650548      |     | Screw, 8-32 x 5/16"                                           |
| 23    | 33627       |     | Bearing, Ball                                                 |
| 30    | 35420A      |     | Crankshaft                                                    |
| 32    | 33628       |     | Washer, Thrust                                                |
| 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    | 33626B      |     | Cyl.Cover(Incl.71,74,75,80,175,176,31 1,312)                  |
| 74    | 31855       |     | Retainer, Bearing                                             |
| 75    | 33625       |     | 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)                         |
| 133   | 650890      |     | Washer, Lock, 5/16"                                           |
| 134   | 30747       |     | Clip, Spark plug shorting                                     |
| 175   | 650778      |     | Lockwasher                                                    |
| 176   | 650580      |     | Nut, Lock, 10-24                                              |
| 274   | 35865       |     | Gasket, Exhaust (Use as required)                             |
| 275   | 34185A      |     | Muffler (Spark Arresting)                                     |
| 277   | 650729      |     | Screw, 5/16-18 x 3-3/16"                                      |
| 298   | 650665      |     | Screw, 1/4-15 x 7/8"                                          |
| 301   | 35355       |     | Fuel Cap                                                      |
| 314   | 650873      |     | Screw, 1/4-20 x 3/4"                                          |
| 323   | 610922      |     | Terminal                                                      |
| 341C  | 34155       |     | Bracket, Fuel tank mounting                                   |
| 361   | 650820      |     | Screw, 1/4-20 x 1/2"                                          |
| 361A  | 30063       |     | Screw, Torx T-30, 1/4-20 x 1/2"                               |
| 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)                  |

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STD. POINT



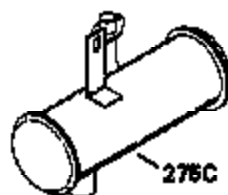
OPTIONAL  
DEBRIS SCREEN KIT



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                                                                                                                                                |
| 314   | 650873      |     | Screw, 1/4-20 x 3/4"                                                                                                                                    |
| 316B  | 611104      |     | Alt.Coil (3/5 split) (Incl.321, 322C & 323B)                                                                                                            |
| 321   | 611161      |     | Diode Assy.                                                                                                                                             |
| 322B  | 610921      |     | Connector                                                                                                                                               |
| 322A  | 610824      |     | Connector, Flat                                                                                                                                         |
| 322   | 611142      |     | Connector, Body                                                                                                                                         |
| 323B  | 611118      |     | Terminal, Pin                                                                                                                                           |
| 323   | 610922      |     | Terminal                                                                                                                                                |
| 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.                                                                               |
| 370B  | 34704       |     | Decal, Air cleaner                                                                                                                                      |
| 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). |