

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



| Ref # | Part Number | Qty | Description                                  |
|-------|-------------|-----|--|
| 1     | 34809A      |     | Cylinder (Incl.2,20 & 72)(3-1/8")(CI liner)  |
| 2     | 27652       |     | Pin, Dowel                                   |
| 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"                          |
| 19    | 34663       |     | Spring, Speed control                        |
| 20    | 32630       |     | Seal, Oil                                    |
| 25    | 35256A      |     | Baffle, Blower housing                       |
| 26    | 650561      |     | Screw, 1/4-20 x 5/8"                         |
| 30    | 35089       |     | Crankshaft (Incl. 108 & 109)                 |
| 35    | 29826       |     | Screw, 10-32 x 3/4"                          |
| 36    | 29918       |     | Lockwasher, # 8 E.T.                         |
| 37A   | 30322       |     | Locknut, Hex "Keps", 8-32                    |
| 37    | 29216       |     | Nut & Lockwasher, 10-32 "Keps"               |
| 38    | 29642       |     | Ring, Retaining                              |
| 40    | 34552       |     | Piston, Pin & Ring Set (Std.) (3-1/8" )      |
| 40    | 34553       |     | Piston, Pin & Ring Set (.010" OS)            |
| 40    | 34554       |     | Piston, Pin & Ring Set (.020" OS)            |
| 41    | 34329A      |     | Piston & Pin Ass'y.(Std)(Incl.43)(3-1 /8")   |
| 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    | 32591C      |     | Rod Assy., Connecting (Incl. 49)             |
| 47    | 650662C     |     | Bolt, Connecting rod (2 pieces)              |
| 48    | 34034       |     | Lifter, Valve                                |
| 49    | 34242       |     | Dipper, Oil                                  |
| 50    | 34143       |     | Camshaft (MCR)                               |
| 60    | 33273A      |     | Extension, Blower housing                    |
| 65    | 650128      |     | Screw, 10-24 x 1/2"                          |
| 69    | 35262       |     | * Gasket, Cylinder cover                     |
| 70    | 33367B      |     | Cylinder Cover (Incl. 71, 75, 80, 311 & 312) |
| 71    | 33368       |     | Bushing, Crankshaft                          |
| 72    | 31927       |     | Plug, Oil drain                              |
| 75    | 31950       |     | Seal, Oil                                    |
| 80    | 31845       |     | Shaft, Mechanical governor                   |
| 81    | 30590A      |     | Washer, Flat                                 |
| 82    | 30591       |     | Gear Assy., Governor (Incl. 81)              |
| 83    | 30588A      |     | Spool, Governor                              |
| 84    | 29193       |     | Ring, Retaining                              |
| 86    | 650488      |     | Screw, 1/4-20 x 1-1/4"                       |
| 87    | 650493      |     | Screw, 1/4-20 x 1-3/4"                       |
| 89    | 32589       |     | Key, Flywheel                                |
| 92    | 650815      |     | Washer, Belleville                           |
| 93    | 8116        |     | Nut, Hex (1/2-20)                            |
| 101   | 610118      |     | Cover, Spark plug (Use as required)          |
| 103   | 650516      |     | Screw, 1/4-20 x 1-1/8                        |
| 108   | 29783       |     | Pin, Crankshaft gear                         |
| 109   | 33245       |     | Gear, Crankshaft                             |
| 110   | 35182       |     | 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)  |
| 127A  | 26073       |     | Washer, Flat (Use as required)   |
| 127A  | 650570      |     | Washer, Flat (Use as required)   |
| 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 required, but do not use with 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)                                      |
| 131A  | 792028      |     | Screw, 5/16-18 x 7/8" (Use as required)                                      |
| 131   | 650802      |     | Screw, 1/4-20 x 5/8" (Use as required)                                       |
| 131   | 650737      |     | Screw, 1/4-20 x 1/2" (Use as required)                                       |
| 131   | 650738      |     | Screw, 1/4-20 x 5/8" (Use as required)                                       |
| 135   | 33636       |     | Resistor Spark Plug (RJ17LM)   |
| 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  |
| 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   | 34696       |     | Tube, Breather   |
| 173A  | 32446       |     | Grommet, Breather tube   |
| 174   | 650128      |     | Screw, 10-24 x 1/2"  |
| 174   | 650597      |     | Screw, 10-24 x 5/8"  |
| 178   | 29752       |     | Nut & Lockwasher, 1/4-28   |
| 179B  | 30593       |     | Clip, Primer line (Use as required)  |
| 182   | 30088A      |     | Screw, 1/4-28 x 1"   |
| 184   | 33263       |     | * Gasket, Carburetor   |
| 185   | 34707       |     | Pipe, Intake   |
| 206   | 610973      |     | Terminal Assy. (Use as required)   |
| 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" (Use as required)                                      |
| 261   | 650830      |     | Screw, 5/16-18 x 1-3/16"   |
| 262   | 29747B      |     | Screw, 5/16-24 x 21/32"  |
| 265   | 33272B      |     | Cover, Cylinder head   |
| 275C  | 35824       |     | Muffler (Optional quiet muffler)   |
| 276   | 31588       |     | Plate, Muffler locking   |
| 277A  | 650696      |     | Screw, 5/16-18x2-3/4" (Used with 276A)                                       |
| 277   | 650729      |     | Screw, 5/16-18 x 3-3/16"   |
| 286B  | 33662       |     | Hub & Screen Assy., Starter  |
| 287   | 29752       |     | Nut & Lockwasher, 1/4-28   |
| 290   | 29774       |     | Fuel Line (Braided 8-1/4")(21 cm)(As req.)                                   |
| 290   | 30705       |     | Fuel Line (Braided 16")(41 cm)(Use as req.)                                  |
| 290   | 30962       |     | Fuel Line (Braided 32")(81 cm)(Use as req.)                                  |
| 292   | 26460       |     | Clamp, Fuel line (Use as required)   |

| Ref # | Part Number | Qty | Description  |
|-------|-------------|-----|--|
| 301   | 410144B     |     | Fuel Cap (White Plastic)(Std)(1-1/2" I.D.)   |
| 301   | 33032       |     | Fuel Cap (Red Plastic) (Spurt Resistant, Low Profile) (1-3/16" I.D.)   |
| 301   | 34210       |     | Fuel Cap (Red Plastic) (Spurt Resistant, High Profile) (1-3/16" I.D.)  |
| 301   | 35355       |     | Fuel Cap (Red plastic) (1-1/2" I.D.)   |
| 306   | 29673       |     | * Gasket, Oil fill   |
| 310   | 34974       |     | Dipstick (Incl. 306)   |
| 325   | 29443       |     | Clip, Fuel line (Use as required)  |
| 325   | 34246       |     | Clip, Ground wire (Use as required)  |
| 341   | 35090       |     | Bracket, Fuel tank   |
| 342   | 30063       |     | Screw, Torx T-30, 1/4-20 x 1/2"  |
| 370J  | 34870       |     | Decal, Instruction Can be used on HM80 with diecast starter.   |
| 370   | 34346       |     | Decal, Instruction   |
| 370A  | 34768       |     | Decal, Name  |
| 379   | 631021      |     | Inlet Needle, Seat & Clip Assy.  |
| 380   | 632325      |     | Carburetor (Incl. 184) (Refer to Division 5, Section A, page 188 for breakdown or Fiche18A-1, Grid F-5)  |
| 390   | 590479      |     | Rewind Starter (Refer to Division 5, Section C, page 30 for breakdown or Fiche 18A-1, Grid G-5)  |
| 400   | 33279G      |     | Gasket Set (Incl. items marked*)   |
| 408   | 35570       |     | Screen Seal (Can be used on HM80 with stamped steel recoil starter)  |
| 409   | 35569       |     | Spacer (Can be used on HM80 with stamped steel recoil starter)   |
| 410   | 730573      |     | Debris Screen Kit (Incl. 360, 370B, 387, 411 & 413) (Can be used on HM80 with stamped steel recoil starter)  |
| 411   | 35568       |     | Debris Screen (Can be used on HM80 with stamped steel recoil starter)  |
| 413   | 650907      |     | Screw, 5/16-18 x 1-5/8" (Can be used on HM80 with stamped steel recoil starter)  |
| 420   | 730225      |     | SAE 30, 4-Cycle Engine Oil (Quart)   |
| 421   | 730226      |     | SAE 5W30, 4-Cycle Engine Oil (Quart)   |
| 425   | 730572      |     | Starter Muff Kit (Incl. 370J, 426 & 4 27) (Can be used on HM80 with die cast starter)  |
| 429   | 650868      |     | Screw, 8-18 x 1-1/8" (3 Required) (Use as required) (Refer to Mechanics Handbook for installation instructions).                                       |
| 430   | 611077      |     | Alternator, Add on (Use as required) (Refer to Mechanics Handbook for installation instructions).  |
| 431   | 590609      |     | Centering tube (Use with engines equipped with die cast aluminum starter)(Use as required) (Refer to Mechanics Handbook for installation instructions) |
| 431   | 590610      |     | Centering tube (Use as required) (Refer to Mechanics Handbook for installation instructions).  |
| 432   | 611078      |     | A.C. Lighting Connector (Use as required) (Refer to Mechanics Handbook for installation instructions).   |
| 432   | 611079      |     | D.C. Charging Connector (Use as required) (Refer to Mechanics Handbook for installation instructions).   |

| Ref # | Part Number | Qty | Description   |
|-------|-------------|-----|---|
| 433   | 590611      |     | Alternator Shaft (4.00") (Use with engines equipped with cast aluminum starter)(Use as required) (Refer to Mechanics Handbook for installation instructions). |
| 433   | 590636      |     | Alternator Shaft (Use with engines equipped with stamped steel starter)(Use as required) (Refer to Mechanics Handbook for installation instructions).         |



| Ref # | Part Number | Qty | Description  |
|-------|-------------|-----|--|
|       | 74 31855    |     | Retainer, Bearing  |
|       | 97          |     | Lockwasher, Heavy split, #10 (Buy locally)   |
|       | 131 650802  |     | Screw, 1/4-20 x 5/8" (Use as required)   |
|       | 131 650737  |     | Screw, 1/4-20 x 1/2" (Use as required)   |
|       | 131 650738  |     | Screw, 1/4-20 x 5/8" (Use as required)   |
|       | 173A 32446  |     | Grommet, Breather tube   |
|       | 174 650128  |     | Screw, 10-24 x 1/2"  |
|       | 174 650597  |     | Screw, 10-24 x 5/8"  |
|       | 222A        |     | Pop Rivet (1/8" dia.) (Can be bought locally)  |
|       | 227A 35044  |     | Air Cl.Elbow (Incl.222A,228A,235A,239 A,242A)  |
|       | 227 730127  |     | Air Cleaner Ass'y. (Incl.238,239,240,241,243,245 & 370)<br>(Use as required)   |
|       | 227 730164  |     | Air Cleaner Ass'y. (Incl. 238, 239, 240, 241, 243 & 245) (Use<br>as required)  |
|       | 228A 650824 |     | Stud, 1/4-20 x 7.33 (Use as required)  |
|       | 228A 650851 |     | Stud, 1/4-20 x 8.1 (Use as required) (Used with drilled thru<br>elbow)   |
|       | 229A 650825 |     | Nut & Lockwasher, 1/4-20   |
|       | 235A 30675  |     | Fitting, Breather  |
|       | 238A 650163 |     | Screw, 10-32 x 7/8"  |
|       | 239A 34698A |     | * Gasket, Air cleaner bracket  |
|       | 242A 34699  |     | Bracket, Air cleaner   |
|       | 245A 34700  |     | Element, Air cleaner   |
|       | 246A 34703  |     | Filter, Pre-air  |
|       | 274 35865   |     | Gasket, Exhaust (Use as required)  |
|       | 275B 391026 |     | Muffler (Incl. 284, 284A & 416A) (This spark arresting muffler<br>can be used on any model.)   |
|       | 275C 35824  |     | Muffler (Optional quiet muffler)   |
|       | 277 650729  |     | Screw, 5/16-18 x 3-3/16"   |
|       | 277A 650696 |     | Screw, 5/16-18x2-3/4" (Used with 276A )  |
|       | 292 26460   |     | Clamp, Fuel line (Use as required)   |
|       | 361 30063   |     | Screw, Torx T-30, 1/4-20 x 1/2"  |
|       | 369 33395   |     | Valve, Fuel strainer & elbow   |
|       | 370J 34870  |     | Decal, Instruction Can be used on HM80 with diecast starter.   |
|       | 370B 34387  |     | Decal, Instruction Can be used on HM80 with stamped steel<br>recoil starter.   |
|       | 370B 34704  |     | Decal, Air cleaner   |
|       | 372 33679   |     | Bushing, Fuel fitting  |
|       | 395 35763A  |     | Electric Starter Motor (12 Volt) (Refer to service number<br>stamped on end cap of motor, or on decal for identification.<br>Refer to Division 5, Section D, Page 20 for breakdown or<br>Fiche 18A-1, Grids G-9, G-10 or G-11)   |
|       | 395 33329D  |     | Starter Motor Kit (110-120 Volt) This 110-120 volt starter<br>motor kit may have been added to this engine. It can be<br>added only if cylinder has drilled and tapped starter mounting<br>bosses and a ring gear flywheel. Refer to service number<br>stamped on end cap of motor, or on decal for identification.<br>Ref |
|       | 408 35570   |     | Screen Seal (Can be used on HM80 with stamped steel<br>recoil starter)   |
|       | 409 35569   |     | Spacer (Can be used on HM80 with stamped steel recoil<br>starter)  |

| Ref # | Part Number | Qty | Description   |
|-------|-------------|-----|---|
| 410   | 730573      |     | Debris Screen Kit (Incl. 360, 370B, 387, 411 & 413) (Can be used on HM80 with stamped steel recoil starter)   |
| 411   | 35568       |     | Debris Screen (Can be used on HM80 with stamped steel recoil starter)   |
| 413   | 650907      |     | Screw, 5/16-18 x 1-5/8" (Can be used on HM80 with stamped steel recoil starter)   |
| 415   | 730130      |     | Exh.Adapter Kit (Incl.274,277)(Use as req.)   |
| 425   | 730572      |     | Starter Muff Kit (Incl. 370J, 426 & 4 27) (Can be used on HM80 with die cast starter)   |
| 429   | 650868      |     | Screw, 8-18 x 1-1/8" (3 Required) (Use as required) (Refer to Mechanics Handbook for installation instructions).  |
| 430   | 611077      |     | Alternator, Add on (Use as required) (Refer to Mechanics Handbook for installation instructions).   |
| 431   | 590609      |     | Centering tube (Use with engines equipped with die cast aluminum starter)(Use as required) (Refer to Mechanics Handbook for installation instructions)        |
| 431   | 590610      |     | Centering tube (Use as required) (Refer to Mechanics Handbook for installation instructions).   |
| 432   | 611078      |     | A.C. Lighting Connector (Use as required) (Refer to Mechanics Handbook for installation instructions).  |
| 432   | 611079      |     | D.C. Charging Connector (Use as required) (Refer to Mechanics Handbook for installation instructions).  |
| 433   | 590611      |     | Alternator Shaft (4.00") (Use with engines equipped with cast aluminum starter)(Use as required) (Refer to Mechanics Handbook for installation instructions). |
| 433   | 590636      |     | Alternator Shaft (Use with engines equipped with stamped steel starter)(Use as required) (Refer to Mechanics Handbook for installation instructions).         |





| Ref # | Part Number | Qty | Description  |
|-------|-------------|-----|--|
| 103   | 650516      |     | Screw, 1/4-20 x 1-1/8  |
| 156   | 610972      |     | Magneto (w/ring gear) (12 Volt, 3 Amp ) NOTE: The complete magneto is not available as an assembly. The magneto number is shown for reference purposes only. Order component parts individually, as shown in parts list. (Refer to Division 5, Section B, page 36 for breakdown or Fiche 18A-1, Grid G |
| 200A  | 34664       |     | Control Bracket (Incl.19,203,204,206, 209)   |
| 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"  |
| 260   | 34833B      |     | Blower Housing (For electric starter)  |
| 275C  | 35824       |     | Muffler (Optional quiet muffler)   |
| 277A  | 650696      |     | Screw, 5/16-18x2-3/4" (Used with 276A )  |
| 286B  | 33662       |     | Hub & Screen Assy., Starter  |
| 290   | 29774       |     | Fuel Line (Braided 8-1/4")(21 cm)(As req.)   |
| 290   | 30705       |     | Fuel Line (Braided 16")(41 cm)(Use as req.)  |
| 290   | 30962       |     | Fuel Line (Braided 32")(81 cm)(Use as req.)  |
| 298B  | 650456      |     | Nut, Flange whiz lock, 1/4-20  |
| 298A  | 650664      |     | Screw, 1/4-20 x 1-19/32"   |
| 300A  | 34826B      |     | Fuel Tank (Incl. 301, 369 & 372) NOTE: These tanks were builtwith 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   | 410144B     |     | Fuel Cap (White Plastic)(Std)(1-1/2" I.D.)   |
| 301   | 33032       |     | Fuel Cap (Red Plastic) (Spurt Resistant, Low Profile) (1-3/16" I.D.)   |
| 301   | 34210       |     | Fuel Cap (Red Plastic) (Spurt Resistant, High Profile) (1-3/16" I.D)   |
| 301   | 35355       |     | Fuel Cap (Red plastic) (1-1/2" I.D.)   |
| 313A  | 33876       |     | Gasket, Stator   |
| 339A  | 33892       |     | Spacer, Tank   |
| 339   | 35038       |     | Spacer, Tank   |
| 340B  | 35091A      |     | Gasket, Tank strap   |
| 341   | 35090       |     | Bracket, Fuel tank   |
| 342A  | 29212       |     | Screw, 1/4-28 x 7/16"  |
| 342   | 30063       |     | Screw, Torx T-30, 1/4-20 x 1/2"  |
| 368   | 33980       |     | Strap, Fuel tank   |
| 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   |
| 377   | 30547A      |     | Contact Assy., Breaker   |
| 378   | 610767A     |     | Condenser  |
| 408   | 35570       |     | Screen Seal (Can be used on HM80 with stamped steel recoil starter)  |
| 409   | 35569       |     | Spacer (Can be used on HM80 with stamped steel recoil starter)   |
| 410   | 730573      |     | Debris Screen Kit (Incl. 360, 370B, 387, 411 &413) (Can be used on HM80 with stamped steel recoil starter)   |

| Ref # | Part Number | Qty | Description   |
|-------|-------------|-----|---|
| 411   | 35568       |     | Debris Screen (Can be used on HM80 with stamped steel recoil starter)   |
| 413   | 650907      |     | Screw, 5/16-18 x 1-5/8" (Can be used on HM80 with stamped steel recoil starter)   |
| 425   | 730572      |     | Starter Muff Kit (Incl. 370J, 426 & 4 27) (Can be used on HM80 with die cast starter)   |
| 429   | 650868      |     | Screw, 8-18 x 1-1/8" (3 Required) (Use as required) (Refer to Mechanics Handbook for installation instructions).  |
| 430   | 611077      |     | Alternator, Add on (Use as required) (Refer to Mechanics Handbook for installation instructions).   |
| 431   | 590609      |     | Centering tube (Use with engines equipped with die cast aluminum starter)(Use as required) (Refer to Mechanics Handbook for installation instructions)        |
| 431   | 590610      |     | Centering tube (Use as required) (Refer to Mechanics Handbook for installation instructions).   |
| 432   | 611078      |     | A.C. Lighting Connector (Use as required) (Refer to Mechanics Handbook for installation instructions).  |
| 432   | 611079      |     | D.C. Charging Connector (Use as required) (Refer to Mechanics Handbook for installation instructions).  |
| 433   | 590611      |     | Alternator Shaft (4.00") (Use with engines equipped with cast aluminum starter)(Use as required) (Refer to Mechanics Handbook for installation instructions). |
| 433   | 590636      |     | Alternator Shaft (Use with engines equipped with stamped steel starter)(Use as required) (Refer to Mechanics Handbook for installation instructions).         |