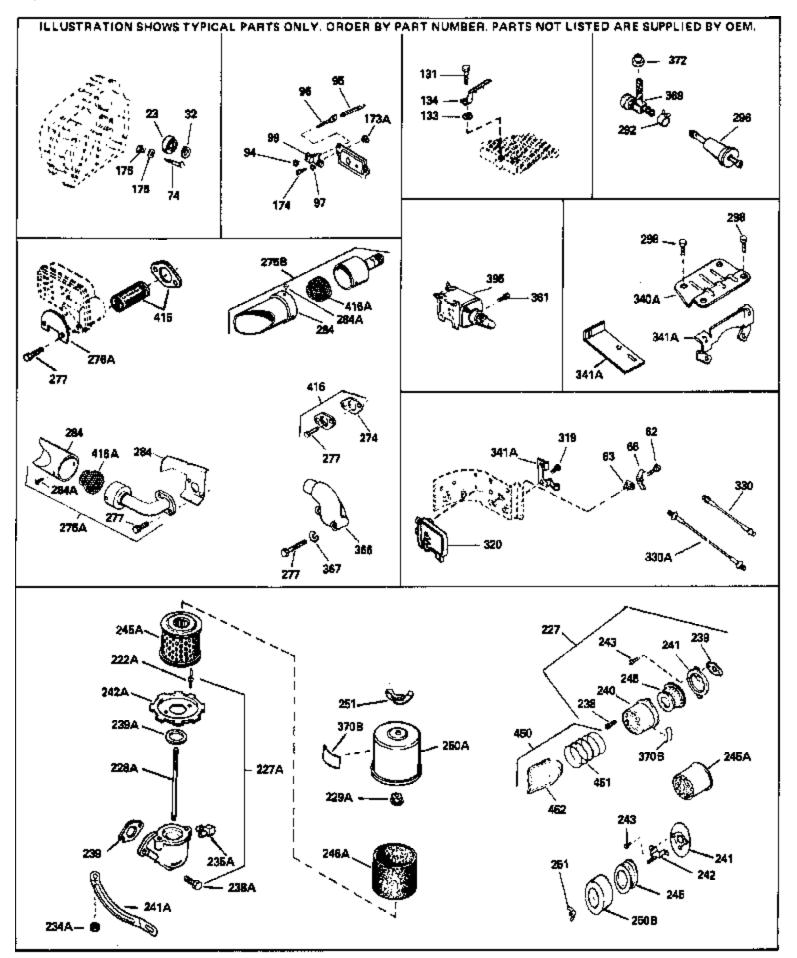


|     |         | Description                                  |
|-----|---------|--|
|     | 34348B  | Cylinder (Incl.2,20,72,72A) (3-1/8" B ore)   |
| 2   | 27652   | Pin, Dowel                                   |
| 15  | 30699C  | Rod Assy., Governor (Incl. 15A & 15B)        |
| 15A | 30700   | Yoke, Governor                               |
| 15B | 650494  | Screw, 6-40 x 5/16"                          |
| 16  | 33454   | Governor Lever Assy.                         |
| 17  | 29916   | Clamp, Governor lever                        |
|     | 650548  | Screw, 8-32 x 5/16"                          |
|     | 34663   | Spring, Speed control                        |
|     | 32630   | Seal, Oil                                    |
|     | 35256A  | Baffle, Blower housing                       |
|     | 650561  | Screw, 1/4-20 x 5/8"                         |
|     | 33365B  | Crankshaft (Incl. 108 & 109)                 |
|     | 29826   | Screw, 10-32 x 3/4"                          |
|     | 29918   | Lockwasher, # 8 E.T.                         |
|     | 29216   | Nut & Lockwasher, 10-32 "Keps"               |
|     | 30322   | •  |
|     | 29642   | Locknut, Hex "Keps", 8-32<br>Ring, Retaining |
|     |         | <b>0</b> . <b>0</b>                          |
|     | 34552   | Piston, Pin & Ring Set (Std.) (3-1/8")       |
|     | 34553   | Piston, Pin & Ring Set (.010" OS)            |
|     | 34554   | Piston, Pin & Ring Set (.020" OS)            |
|     | 34329A  | Piston & Pin Ass'y.(Std)(Incl.43)(3-1 /8")   |
|     | 34330A  | Piston & Pin Ass'y. (.010" OS)(Incl. 43)     |
|     | 34331A  | Piston & Pin Ass'y. (.020" OS)(Incl. 43)     |
|     | 34332   | Ring Set (Std.) (3-1/8" Bore)                |
|     | 34333   | Ring Set (.010" OS)                          |
|     | 34334   | Ring Set (.020" OS)                          |
|     | 27888   | Ring, Piston pin retaining                   |
|     | 32591C  | Rod Assy., Connecting (Incl. 49)             |
|     | 650662C | Bolt, Connecting rod (2 pieces)              |
|     | 34034   | Lifter, Valve                                |
|     | 34242   | Dipper, Oil                                  |
|     | 34143   | Camshaft (MCR)                               |
|     | 33273A  | Extension, Blower housing                    |
|     | 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  | 27642   | Plug, Oil drain                              |
| 75  | 31950   | Seal, Oil                                    |
| 80  | 31845   | Shaft, Mechanical governor                   |
|     | 30590A  | Washer, Flat                                 |
|     | 30591   | Gear Assy., Governor (Incl. 81)              |
|     | 30588A  | Spool, Governor                              |
|     | 29193   | Ring, Retaining                              |
|     | 650833  | Screw, 1/4-20 x 1-3/16"                      |
|     | 650832  | Screw, 1/4-20 x 1-11/16"                     |
|     | 32589   | Key, Flywheel                                |
|     | 650815  | Washer, Belleville                           |
|     | 8116    | Nut, Hex (1/2-20)                            |
|     | 610118  | Cover, Spark plug (Use as required)          |
|     | 650489  | Screw, 1/4-20 x 5/8"                         |
|     | 29783   | Pin, Crankshaft gear                         |
|     | 33245   |  |
|     |         | Gear, Crankshaft<br>Ground Wire              |
|     | 35182   | Ground Wire                                  |
|     | 34041A  | * Gasket, Head                               |
|     | 34030A  | Head, Cylinder                               |
| 125 | 27878A  | Exhaust Valve (Std.) (Incl. 151)             |
|     |         |  |

|      | Devt Neveele en | 0   | Description  |
|------|-----------------|-----|--|
|      |                 | Qty | Description  |
|      | 27880A          |     | Exhaust Valve (1/32" OS) (Incl. 151)                         |
| 126  | 34035           |     | Intake Valve (Std.) (Incl. 151)                              |
| 126  | 34036           |     | Intake Valve (1/32" OS) (Incl. 151)                          |
|      | 650691          |     | Washer (Use as req., but not w/6021A screw)                  |
|      | 26073           |     | Washer, Flat (Use as required)                               |
|      |                 |     |  |
|      | 650570          |     | Washer, Flat (Use as required)                               |
|      | 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 notuse 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 require d)                     |
|      | 792028          |     | Screw, 5/16-18 x 7/8" (Use as require d)                     |
|      | 650802          |     | Screw, $1/4-20 \times 5/8"$ (Use as required )               |
|      |                 |     |  |
|      | 650737          |     | Screw, 1/4-20 x 1/2" (Use as required )                      |
|      | 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"  |
|      | 27882           |     | Cap, Upper valve spring                                      |
|      | 35862           |     | Seal Assy., Intake valve                                     |
|      |                 |     |  |
|      | 27881           |     | Spring, Valve  |
|      | 32581           |     | Cap, Lower valve spring                                      |
| 169  | 27896A          |     | * Gasket, Breather cover                                     |
| 170  | 28423           |     | Body, Breather   |
| 171  | 28424           |     | Element, Breather  |
|      | 28425           |     | Cover, Valve spring  |
|      | 35350           |     | Tube, Breather   |
|      |                 |     |  |
|      | 650128          |     | Screw, 10-24 x 1/2"  |
|      | 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"   |
|      | 33263           |     | * Gasket, Carburetor   |
|      | 34707           |     | Pipe, Intake   |
|      | 31342           |     |  |
|      |                 |     | Spring, Compression  |
|      | 650549          |     | Screw, 5-40 x 7/16"  |
|      | 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 "                          |
|      | 27915A          |     | * Gasket, Intake pipe  |
|      | 33375D          |     | Blower Housing (For electric starter)                        |
|      | 650788          |     | Screw, 5/16-18 x 3/4" (Use as require d)                     |
|      |                 |     |  |
|      | 29747B          |     | Screw, 5/16-24 x 21/32"                                      |
|      | 33272B          |     | Cover, Cylinder head   |
| 275  | 33756A          |     | Muffler  |
| 275C | 35824           |     | Muffler (Optional quiet muffler)                             |
| 276  | 31588           |     | Plate, Muffler locking                                       |
|      | 650729          |     | Screw, 5/16-18 x 3-3/16"                                     |
|      | 650696          |     | Screw, 5/16-18x2-3/4" (Used with 276A )                      |
|      |                 |     |  |
|      | 33013           |     | Cover, Starter bubble  |
|      | 650760          |     | Screw, 8-32 x 3/8"   |
|      | 33662           |     | Hub & Screen Assy., Starter                                  |
| 287  | 29752           |     | Nut & Lockwasher, 1/4-28                                     |
| 290  | 29774           |     | Fuel Line (Braided 8-1/4")(21 cm)(As req.)                   |
|      | 30705           |     | Fuel Line (Braided 16")(41 cm)(Use as req.)                  |
| 200  |                 |     |  |

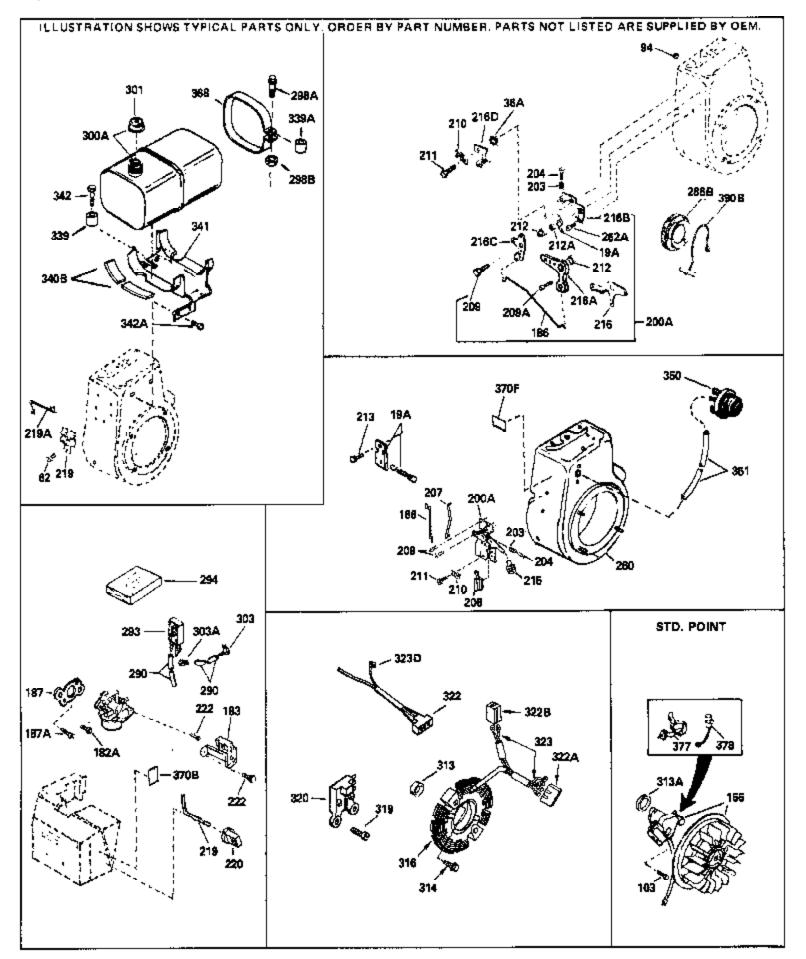
|     |                  | y Description   |
|-----|------------------|---|
|     | 30962            | Fuel Line (Braided 32")(81 cm)(Use as req.)   |
| 292 | 26460            | Clamp, Fuel line (Use as required)  |
| 298 | 650665           | Screw, 1/4-15 x 7/8"  |
|     | 34156A           | Fuel Tank (Incl. 292 & 301) 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. |
|     | 410144B<br>33032 | Fuel Cap (White Plastic)(Std)(1-1/2" I.D.)<br>Fuel Cap (Red Plastic) (Spurt Resistant, Low Profile) (1-3/16"<br>I.D.)   |
| 301 | 34210            | Fuel Cap (Red Plastic) (Spurt Resistant, High Profile)<br>(1-3/16" I.D)   |
| 301 | 35355            | Fuel Cap (Red plastic) (1-1/2" I.D.)  |
|     | 29673            | * Gasket, Oil fill  |
|     | 31297            | Dipstick (Incl. 306)  |
|     | 29443            | Clip, Fuel line (Use as required)   |
|     | 34246            | Clip, Ground wire (Use as required)   |
|     | 34154            |   |
|     | 34155            | Plate, Fuel tank mounting   |
|     |                  | Bracket, Fuel tank mounting   |
|     | 650561           | Screw, 1/4-20 x 5/8"  |
|     | 34870            | Decal, Instruction Can be used on HM80 with diecast starter.  |
|     | 34346            | Decal, Instruction  |
|     | 631021           | Inlet Needle, Seat & Clip Assy.   |
| 380 | 632351           | 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*)  |
|     | 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)  |
|     | 730226           | SAE 5W30, 4-Cycle Engine Oil (Quart)  |
|     | 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<br>aluminum starter)(Use as required) (Refer to Mechanics<br>Handbook for installation instructions)  |

| Ref # | Part Number | Qty Description   |
|-------|-------------|---|
| 431   | 590610      | Centering tube (Use as required) (Refer to Mechanics<br>Handbook for installation instructions).  |
| 432   | 611078      | A.C. Lighting Connector (Use as required) (Refer to<br>Mechanics Handbook for installation instructions).   |
| 432   | 611079      | D.C. Charging Connector (Use as required) (Refer to<br>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).         |



|      |        | Description   |
|------|--------|---|
|      | 31855  | Retainer, Bearing   |
| 97   |        | Lockwasher, Heavy split, #10 (Buy loc ally)   |
|      | 650802 | Screw, 1/4-20 x 5/8" (Use as required )   |
|      | 650737 | Screw, 1/4-20 x 1/2" (Use as required )   |
|      | 650738 | Screw, 1/4-20 x 5/8" (Use as required )   |
|      | 650128 | Screw, 10-24 x 1/2"   |
|      | 650597 | Screw, 10-24 x 5/8"   |
| 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 as required)  |
| 228A | 650824 | Stud, 1/4-20 x 7.33 (Use as required)   |
|      | 650851 | Stud, 1/4-20 x 8.1 (Use as required) (Used with drilled thru elbow)   |
| 239  | 27272A | * Gasket, Air cleaner   |
|      | 27272A | * Gasket, Air cleaner   |
|      | 33266  | Bracket, Air cleaner  |
|      | 33267  | Bracket, Air cleaner  |
|      | 28820  | Screw, 10-32 x 1/2"   |
|      | 34700  | Element, Air cleaner  |
|      | 33268  | Element, Air cleaner  |
|      | 33269A | Cover, Air cleaner  |
|      | 650513 | Nut, Wing, 1/2-20   |
|      | 35865  | Gasket, Exhaust (Use as required)   |
|      | 35824  | Muffler (Optional quiet muffler)  |
|      | 391026 | Muffler (Incl. 284, 284A & 416A) (This spark arresting muffler  |
| 2100 | 001020 | can be used on any model.)  |
| 277A | 650696 | Screw, 5/16-18x2-3/4" (Used with 276A)  |
|      | 650729 | Screw, 5/16-18 x 3-3/16"  |
|      | 26460  | Clamp, Fuel line (Use as required)  |
|      | 650665 | Screw, 1/4-15 x 7/8"  |
|      | 34870  | Decal, Instruction Can be used on HM80 with diecast starter.  |
|      | 34387  | Decal, Instruction Can be used on HM80 with stamped steel recoil starter.   |
| 205  | 33329D | Starter Motor Kit (110-120 Volt) This 110-120 volt starter  |
| 333  |        | motor kit may have been added to this engine. It can be<br>added only if cylinder hasdrilled 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 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)   |
| 415  | 730130 | Exh.Adapter Kit (Incl.274,277)(Use as req.)   |

| Ref # | Part Number | Qty Description   |
|-------|-------------|---|
| 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<br>aluminum starter)(Use as required) (Refer to Mechanics<br>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<br>Mechanics Handbook for installation instructions).   |
| 432   | 611079      | D.C. Charging Connector (Use as required) (Refer to<br>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).         |



|             |         | Description  |
|-------------|---------|--|
|             | 650489  | Screw, 1/4-20 x 5/8"   |
| 156         | 610842  | Magneto (Incl. 377 & 378) 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 28 for breakdown or Fiche 18A-1, Grid G-1)   |
| 186         | 34661   | Link, Governor   |
|             | 34664   | Control Bracket (Incl.19,203,204,206, 209)   |
|             | 31342   |  |
|             |         | Spring, Compression  |
|             | 650549  | Screw, 5-40 x 7/16"  |
|             | 610973  | Terminal Assy. (Use as required)   |
|             | 33878   | Link, Governor-to-throttle   |
|             | 650821  | Screw, 10-32 x 1/2"  |
|             | 27793   | Clip, Conduit  |
|             | 28942   | Screw, 10-32 x 3/8"  |
|             | 33375D  | 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.)   |
|             | 30705   | Fuel Line (Braided 16")(41 cm)(Use as req.)  |
|             | 30962   | Fuel Line (Braided 32")(81 cm)(Use as req.)  |
|             | 410144B | Fuel Cap (White Plastic)(Std)(1-1/2" I.D.)   |
|             | 33032   | Fuel Cap (Red Plastic) (Spurt Resistant, Low Profile) (1-3/16"   |
| 301         | 3303Z   | I.D.)  |
| 201         | 24240   |  |
| 301         | 34210   | Fuel Cap (Red Plastic) (Spurt Resistant, High Profile)<br>(1-3/16" I.D)                                    |
| 004         | 05055   |  |
|             | 35355   | Fuel Cap (Red plastic) (1-1/2" I.D.)   |
|             | 33876   | Gasket, Stator   |
|             | 35038   | Spacer, Tank   |
|             | 34155   | Bracket, Fuel tank mounting  |
|             | 650561  | Screw, 1/4-20 x 5/8"   |
| 370B        | 34387   | Decal, Instruction Can be used on HM80 with stamped steel  |
|             |         | recoil starter.  |
| 370J        | 34870   | Decal, Instruction Can be used on HM80 with diecast starter.   |
| 377         | 30547A  | Contact Assy., Breaker   |
| 378         | 30548B  | Condenser  |
|             | 35570   | Screen Seal (Can be used on HM80 with stamped steel  |
| 100         |         | recoil starter)  |
| <u>40</u> 0 | 35569   | Spacer (Can be used on HM80 with stamped steel recoil  |
| -00         |         | starter)   |
| 440         | 700570  |  |
| 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)  |
| <u>/</u> 13 | 650907  | Screw, 5/16-18 x 1-5/8" (Can be used on HM80 with  |
| 415         | 000001  | 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).   |
|             |         | HM80 with die cast starter)<br>Screw, 8-18 x 1-1/8" (3 Required) (Use as required) (Refe                   |

| Ref # | Part Number | Qty Des | scription   |
|-------|-------------|---------|---|
| 430   | 611077      |         | ernator, Add on (Use as required) (Refer to Mechanics ndbook for installation instructions).  |
| 431   | 590609      | alur    | ntering tube (Use with engines equipped with die cast<br>minum starter)(Use as required) (Refer to Mechanics<br>ndbook for installation instructions)       |
| 431   | 590610      |         | ntering tube (Use as required) (Refer to Mechanics ndbook for installation instructions).   |
| 432   | 611078      |         | C. Lighting Connector (Use as required) (Refer to<br>chanics Handbook for installation instructions).   |
| 432   | 611079      |         | C. Charging Connector (Use as required) (Refer to<br>chanics Handbook for installation instructions).   |
| 433   | 590611      | alur    | ernator Shaft (4.00") (Use with engines equipped with cast<br>minum starter)(Use as required) (Refer to Mechanics<br>ndbook for installation instructions). |
| 433   | 590636      | stee    | ernator Shaft (Use with engines equipped with stamped<br>el starter)(Use as required) (Refer to Mechanics<br>ndbook for installation instructions).         |