



## Engine Parts List #1

| 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                                |
| 15B   | 650494      |     | Screw, 6-40 x 5/16"                           |
| 15A   | 30700       |     | Yoke, Governor                                |
| 15    | 30699C      |     | Rod Assy., Governor (Incl. 15A & 15B)         |
| 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    | 36245       |     | Crankshaft                                    |
| 35    | 29826       |     | Screw, 10-32 x 3/4"                           |
| 36    | 29918       |     | Lockwasher, # 8 E.T.                          |
| 37A   | 30322       |     | Locknut, 8-32                                 |
| 37    | 29216       |     | Nut & Lockwasher, 10-32                       |
| 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    | 35444       |     | Camshaft (MCR) (Extended)                     |
| 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    | 35445       |     | Cover, Cylinder (Incl. 75, 76 & 80)           |
| 71    | 35377       |     | Bushing, Crankshaft                           |
| 72    | 27642       |     | Plug, Oil drain                               |
| 75    | 35319       |     | Seal, Oil                                     |
| 76    | 28926       |     | 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    | 611093      |     | Flywheel (3 amp, w/ring gear)                 |
| 92    | 650880      |     | Washer, Belleville                            |
| 93    | 650881      |     | Hex Nut, 5/8-18                               |

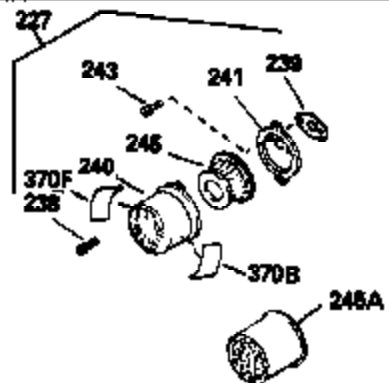
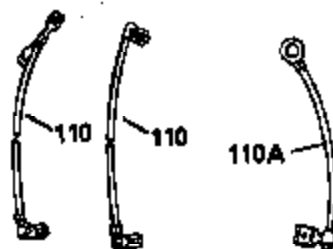
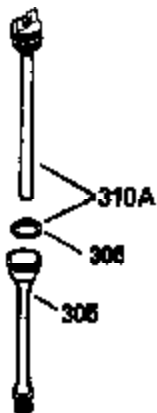
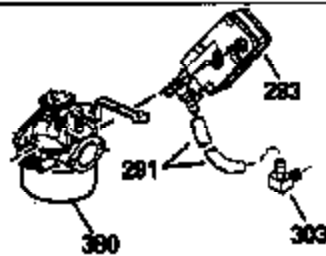
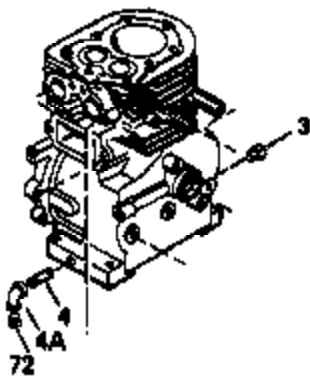
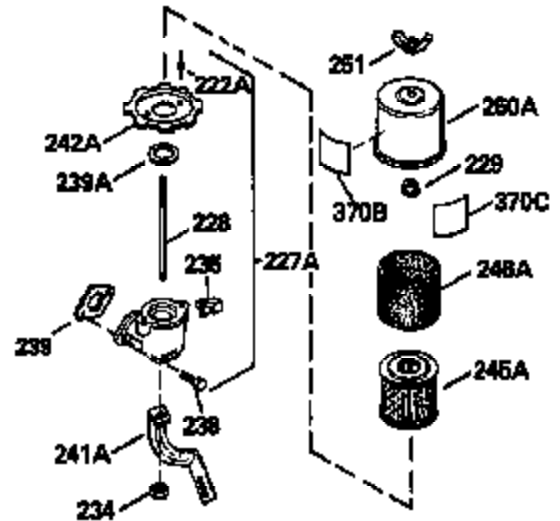
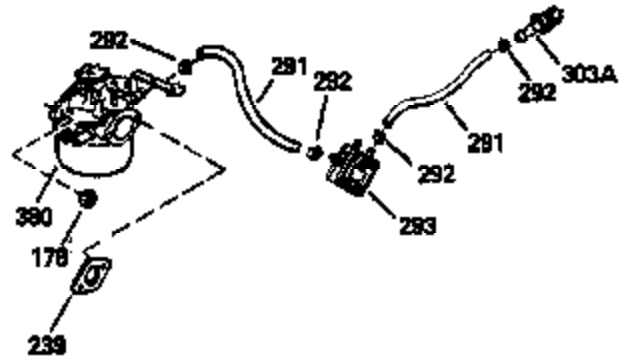
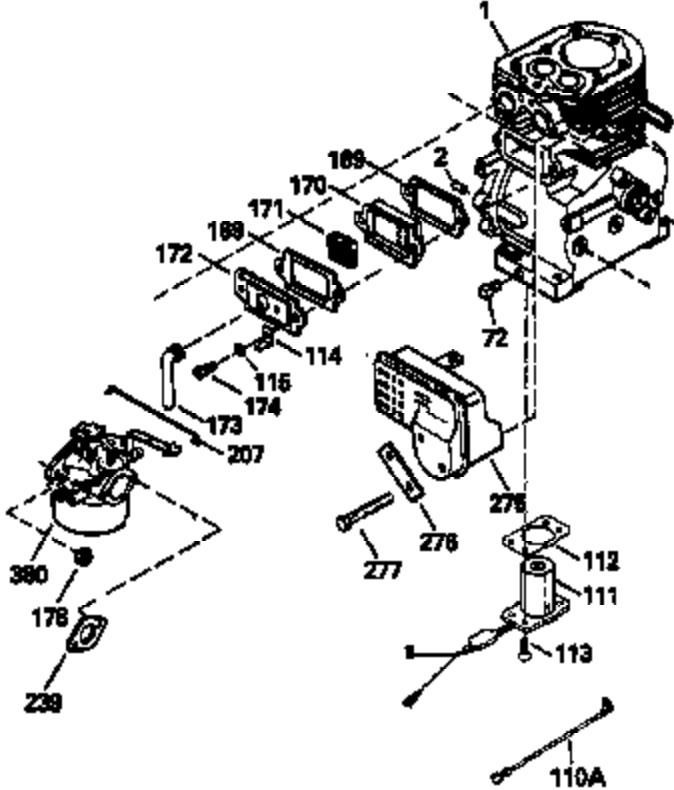
## Engine Parts List #1

| Ref # | Part Number | Qty | Description                                                   |
|-------|-------------|-----|---------------------------------------------------------------|
| 100   | 35135       |     | Lamination Assy., Solid State                                 |
| 102   | 650872      |     | Stud, Lamination mounting                                     |
| 103   | 650814      |     | Screw, Torx T-15, 10-24 x 1"                                  |
| 110   | 35253       |     | Ground Wire                                                   |
| 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)                       |
| 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"                                            |

## Engine Parts List #1

| Ref # | Part Number | Qty | Description                                                                                                                                                                                                      |
|-------|-------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |
| 301   | 35355       |     | Fuel Cap                                                                                                                                                                                                         |
| 305   | 35554       |     | Tube, Oil fill                                                                                                                                                                                                   |
| 306   | 35499       |     | "O" Ring                                                                                                                                                                                                         |
| 308   | 35540       |     | Clip, Fill tube                                                                                                                                                                                                  |
| 310   | 35555       |     | Dipstick                                                                                                                                                                                                         |
| 325   | 34246       |     | Clip, Ground wire (Use as required)                                                                                                                                                                              |
| 325B  | 29443       |     | Clip, Fuel line (Use as required)                                                                                                                                                                                |
| 327   | 35392       |     | Plug, Starter                                                                                                                                                                                                    |
| 328   | 35062       |     | Ignition Key                                                                                                                                                                                                     |
| 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"                                                                                                                                                                                             |
| 370   | 34416       |     | Decal, Instruction                                                                                                                                                                                               |
| 370   | 35274       |     | Decal, Instruction                                                                                                                                                                                               |
| 370J  | 34870       |     | Decal, Instruction Can be used on HM80 with diecast starter.                                                                                                                                                     |
| 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)                                                                                                                                                                             |

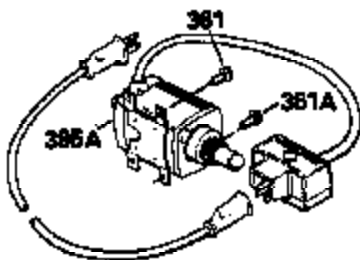
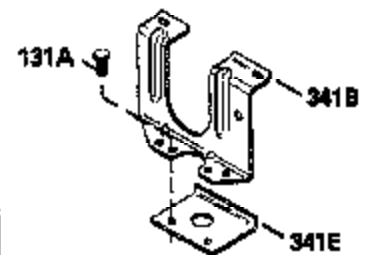
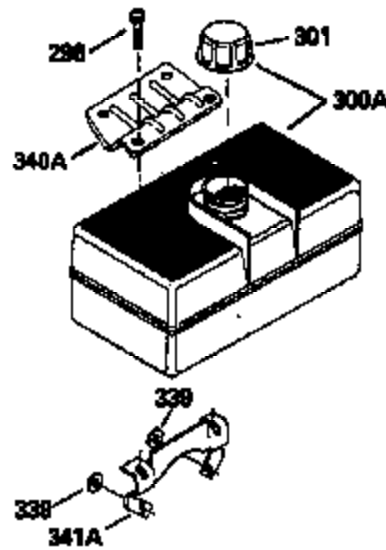
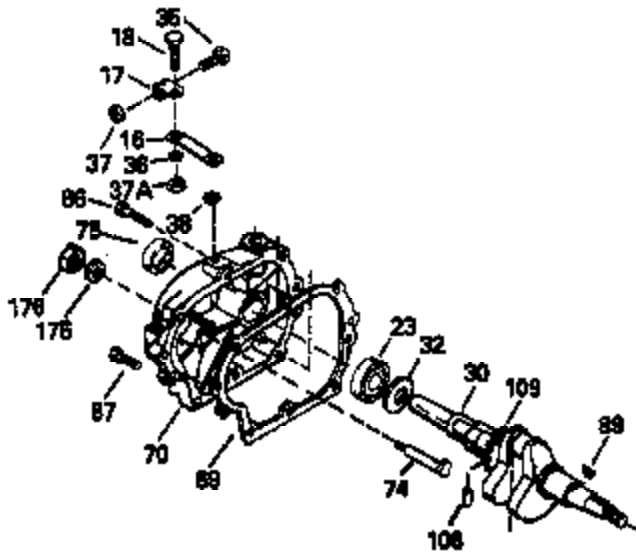
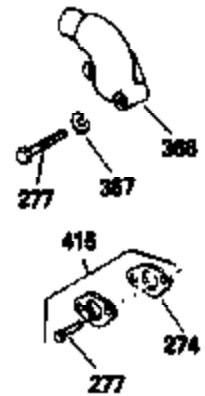
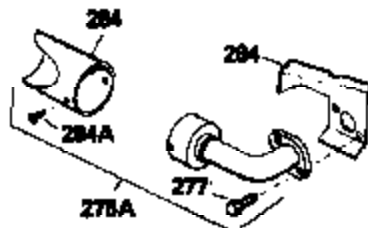
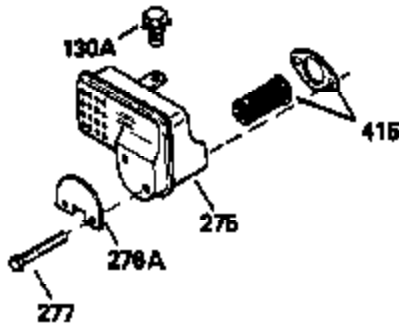
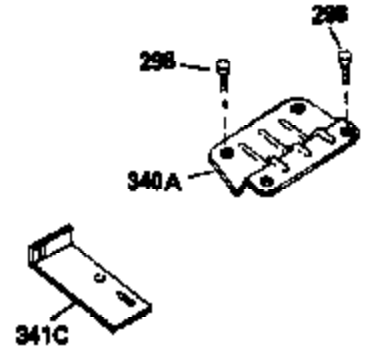
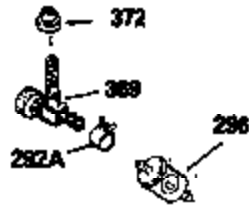
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## Engine Parts List #2

| 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                                                                                            |
| 110   | 35253       |     | Ground Wire                                                                                                |
| 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) |

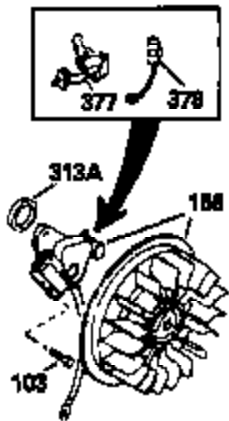
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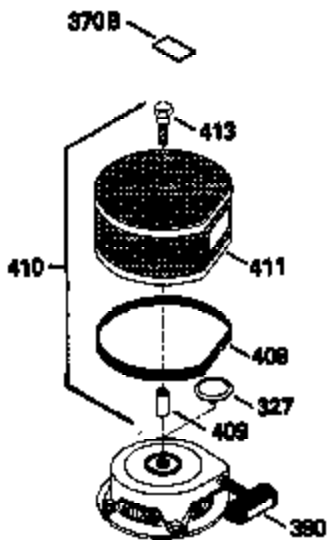
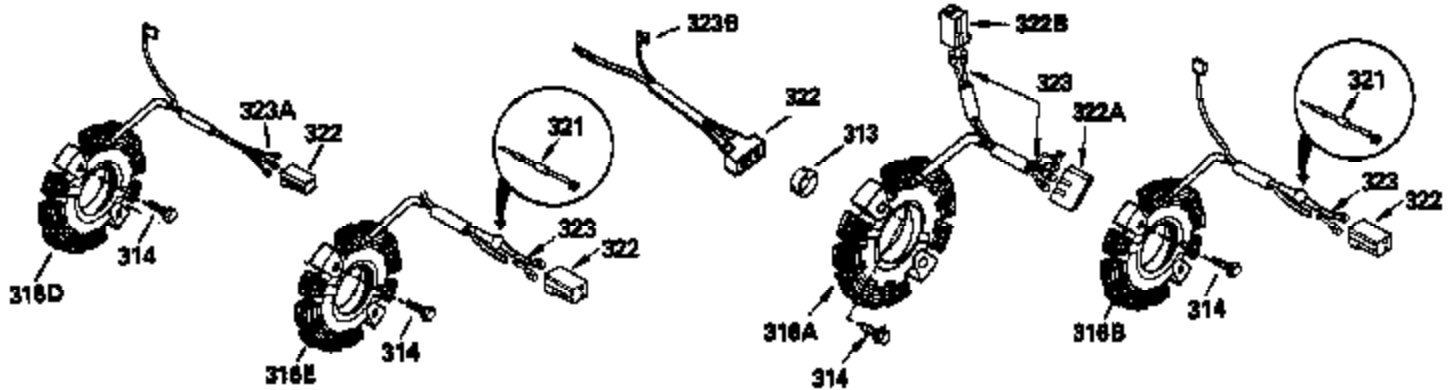
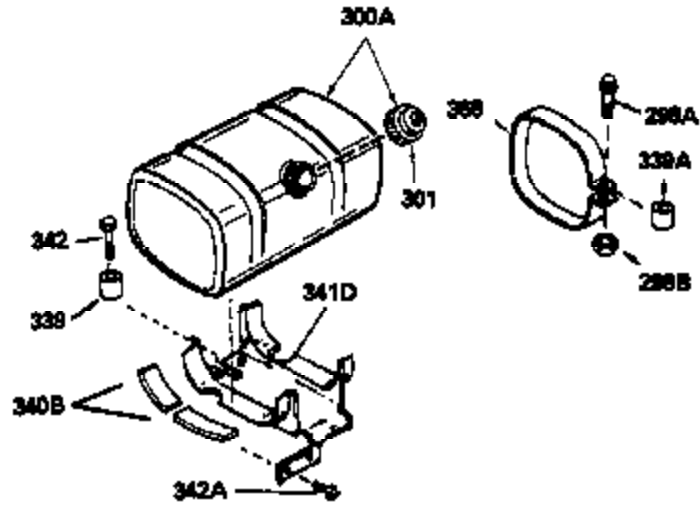
| Ref # | Part Number | Qty | Description                                                   |
|-------|-------------|-----|---------------------------------------------------------------|
|       | 16 33454    |     | Governor Lever Assy.                                          |
|       | 17 29916    |     | Clamp, Governor lever                                         |
|       | 18 650548   |     | Screw, 8-32 x 5/16"                                           |
|       | 30 36245    |     | 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 35445    |     | Cover, Cylinder (Incl. 75, 76 & 80)                           |
|       | 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                                                      |
|       | 314 650873  |     | Screw, 1/4-20 x 3/4"                                          |
|       | 316 611111  |     | Alternator Coil (18 Watt) (Incl. 323B )                       |
|       | 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)                  |



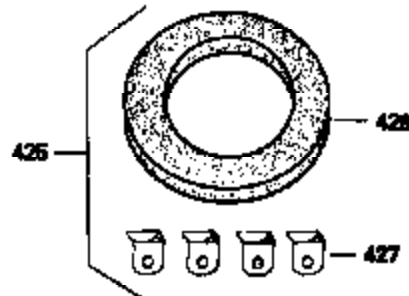
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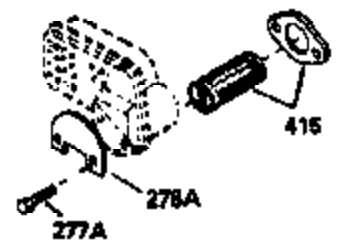
STD. POINT



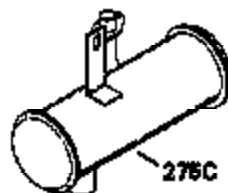
OPTIONAL  
DEBRIS SCREEN KIT



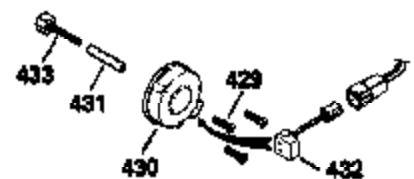
OPTIONAL  
STARTER MUFF KIT



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"                                                                                                                                    |
| 323B  | 611118      |     | 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.                                                                               |
| 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). |