



## Engine Parts List #1

| Ref # | Part Number | Qty | Description                                  |
|-------|-------------|-----|--|
| 1     | 31788A      | 0   | Cylinder Assy. (2-1/2" Bore)                 |
| 2     | 27652       | 0   | Pin, Dowel                                   |
| 3     | 27642       | 0   | Plug, Drain                                  |
| 3A    | 27642       | 0   | Plug, Drain                                  |
| 4     | 27876B      | 0   | Seal, Oil                                    |
| 5     | 31467A      | 0   | Valve, Intake (Standard) (Long Life)         |
| 5     | 31468A      | 0   | Valve, Intake (1/32" Oversize) (Long Life)   |
| 6     | 31469A      | 0   | Valve, Exhaust (Standard) (Long Life)        |
| 6     | 31470       | 0   | Valve, Exhaust (1/32" Oversize) (Long Life)  |
| 7     | 27882       | 0   | Cap, Upper valve spring                      |
| 8     | 27881       | 0   | Spring, Valve                                |
| 9A    | 27883       | 0   | Cap, Lower valve spring (Standard)           |
| 9A    | 30964       | 0   | Cap, Lower valve spring (1/32" oversize)     |
| 9B    | 32581       | 0   | Cap, Lower valve spring                      |
| 9     | 27883       | 0   | Cap, Lower valve spring (Standard)           |
| 9     | 30964       | 0   | Cap, Lower valve spring (1/32" oversize)     |
| 10    | 20810       | 0   | Pin, Valve spring retaining                  |
| 11    | 31790       | 0   | Crankshaft Assy.                             |
| 12    | 29783       | 0   | Pin, Crankshaft gear                         |
| 13    | 27884       | 0   | Gear, Crankshaft                             |
| 14    | 31794       | 0   | Piston & Pin Assy. (Standard) (2-1/2")       |
| 14    | 31795       | 0   | Piston & Pin Assy. (.010 Oversize)           |
| 14    | 31796       | 0   | Piston & Pin Assy. (.020 Oversize)           |
| 15    | 29907       | 0   | Re-Ringing Set, Piston                       |
| 15    | 31853       | 0   | Ring Set, Piston (Standard) (2-1/2") (Long   |
| 15    | 32055       | 0   | Ring Set, Piston (.010 Oversize)             |
| 15    | 32056       | 0   | Ring Set, Piston (.020 Oversize)             |
| 16    | 27888       | 0   | Ring, Piston pin retaining                   |
| 17    | 31295B      | 0   | Rod Assy., Connecting                        |
| 18    | 21718       | 0   | Bolt, Connecting rod                         |
| 19    | 26073       | 0   | Washer, Connecting rod bolt                  |
| 20    | 28264       | 0   | Nut  |
| 21    | 32115       | 0   | Camshaft Assy. (Mech. compression release)   |
| 22    | 27893       | 0   | Lifter, Valve                                |
| 23    | 31452A      | 0   | Cover, Cylinder                              |
| 24    | 28460       | 0   | Seal, Oil                                    |
| 25    | 29668       | 0   | Dipstick, Oil (Screw In)                     |
| 26    | 30684       | 0   | Gasket, Mounting flange                      |
| 27    | 8303        | 0   | Lockwasher                                   |
| 28    | 30564       | 0   | Screw  |
| 28    | 650488      | 0   | Screw  |
| 30    | 29673       | 0   | Gasket, Filler plug                          |
| 31    | 650489      | 0   | Screw  |
| 32    | 28938B      | 0   | Gasket, Cylinder head                        |
| 33    | 30938A      | 0   | Head, Cylinder                               |
| 34    | 27793       | 0   | Clip, Conduit                                |
| 35    | 28942       | 0   | Screw  |
| 36    | 650694      | 0   | Screw, Hex hd. cap, 5/16-18 x 2              |
| 36    | 650695      | 0   | Screw, Hex hd. cap, 5/16-18 x 2-1/4 (Grade 8 |
| 36    | 650697      | 0   | Screw, Hex hd. cap, 5/16-18 x 2-1/2          |
| 37    | 33636       | 0   | Plug, Spark (Champion J-8 or equivalent)     |
| 38    | 27896       | 0   | Gasket, Breather cover                       |
| 39    | 28423       | 0   | Body, Breather                               |
| 40    | 28424       | 0   | Element, Breather                            |
| 41    | 28425       | 0   | Cover, Valve chamber                         |
| 42    | 26073       | 0   | Washer, Connecting rod bolt                  |
| 43A   | 8269        | 0   | Washer                                       |
| 43    | 650128      | 0   | Screw  |

| Ref # | Part Number | Qty | Description                                |
|-------|-------------|-----|--|
| 43    | 650597      | 0   | Screw, Hex washer hd., 10-24 x 5/8         |
| 44    | 27627       | 0   | Tube, Breather                             |
| 45    | 27915       | 0   | Gasket, Intake pipe                        |
| 46    | 30195A      | 0   | Flange, Carburetor                         |
| 48    | 30196       | 0   | Screw                                      |
| 50    | 650548      | 0   | Screw, Hex washer hd., 8-32 x 5/16         |
| 51    | 30319       | 0   | Rivet, Split                               |
| 52    | 31709       | 0   | Lever, Governor                            |
| 54    | 28819       | 0   | Spring, Fuel line                          |
| 54    | 31778       | 0   | Spring, Coil                               |
| 55    | 30205       | 0   | Bracket, Adjusting                         |
| 56    | 31710       | 0   | Link, Throttle                             |
| 57    | 30985       | 0   | Control, Throttle                          |
| 57A   | 24522       | 0   | Control, Throttle                          |
| 59    | 29216       | 0   | Nut  |
| 60    | 650152      | 0   | Screw                                      |
| 61    | 29826       | 0   | Screw                                      |
| 62    | 29642       | 0   | Ring, Retaining                            |
| 63    | 30699A      | 0   | Rod Assy., Governor                        |
| 64    | 29536       | 0   | Baffle, Blower housing                     |
| 65    | 650561      | 0   | Screw                                      |
| 66    | 30586       | 0   | Decal, Instruction                         |
| 67    | 650399      | 0   | Screw, Phil. fil. hd. Sems, 10-32 x 5/8    |
| 68    | 8274        | 0   | Lockwasher                                 |
| 69    | 29747A      | 0   | Screw                                      |
| 70    | 32158B      | 0   | Housing, (5.56 Dia. starter mtg. bolt      |
| 71    | 650490      | 0   | Washer, Belleville                         |
| 72    | 8116        | 0   | Nut  |
| 73    | 30700       | 0   | Yoke, Governor                             |
| 74    | 650494      | 0   | Screw                                      |
| 75    | 31688       | 0   | Gasket, Carburetor (1/8 thick)             |
| 77    | 31345       | 0   | Plate, Identification                      |
| 78    | 29309       | 0   | Stud, Drive                                |
| 79    | 29752       | 0   | Nut  |
| 80    | 650572      | 0   | Screw                                      |
| 83    | 27272       | 0   | Gasket, Air cleaner                        |
| 88    | 650399      | 0   | Screw, Phil. fil. hd. Sems, 10-32 x 5/8    |
| 88    | 650521      | 0   | Screw                                      |
| 88    | 28820       | 0   | Screw                                      |
| 91    | 30312       | 0   | Screw, Hex washer hd. Sems, 10-32 x 1/2    |
| 98    | 28569       | 0   | Spring, Compression                        |
| 98    | 32924       | 0   | Spring, Compression                        |
| 99    | 29500       | 0   | Screw, Fil. hd. mach., Sems, 8-32 x 3/4    |
| 99    | 650223      | 0   | Screw, Fil. slotted hd. Sems, 8-32 x 5/8   |
| 99    | 650688      | 0   | Screw, Hex hd., 10-32 x 1-5/16" (Drilled   |
| 100   | 29538       | 0   | Base, Mounting                             |
| 102   | 650561      | 0   | Screw                                      |
| 103   | 32401       | 0   | Muffler                                    |
| 106   | 31845       | 0   | Shaft, Mechanical governor                 |
| 108   | 29193       | 0   | Ring, Retaining                            |
| 109   | 30588A      | 0   | Spool, Governor                            |
| 111   | 31694       | 0   | Bracket, Fuel tank                         |
| 113   | 30688       | 0   | Screw, Hex hd. Sems, 1/4-20 x 1/2          |
| 113   | 650561      | 0   | Screw                                      |
| 114   | 31301       | 0   | Tank Assy., Fuel (1 gal.)                  |
| 115A  | 30998B      | 0   | Cap, Fuel filler (Red Plastic) (Sno Proof) |
| 115   | 32387A      | 0   | Cap, Fuel filler (Charcoal Plastic) (Spurt |
| 115   | 33032       | 0   | Cap, Fuel filler (Red Plastic) (Spurt      |

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| Ref # | Part Number | Qty | Description                                 |
|-------|-------------|-----|---|
| 117A  | 29683       | 0   | Strainer & Shut-off                         |
| 118   | 29774       | 0   | Line, Fuel (Braided 8.25")                  |
| 118   | 30705       | 0   | Line, Fuel (Braided 16")                    |
| 118   | 30962       | 0   | Line, Fuel (Braided 32")                    |
| 119   | 31792       | 0   | Washer, Thrust                              |
| 120   | 30688       | 0   | Screw, Hex hd. Sems, 1/4-20 x 1/2           |
| 120   | 650128      | 0   | Screw                                       |
| 121   | 30622       | 0   | Extension, Blower housing                   |
| 125   | 27930       | 0   | Gasket, Exhaust                             |
| 126   | 650178      | 0   | Screw                                       |
| 127   | 26073       | 0   | Washer, Connecting rod bolt                 |
| 128   | 30196       | 0   | Screw                                       |
| 128   | 650694      | 0   | Screw, Hex hd. cap, 5/16-18 x 2             |
| 129   | 30884       | 0   | Key, Flywheel                               |
| 130   | 31843A      | 0   | Bracket, Governor                           |
| 131   | 28763       | 0   | Screw, Hex washer hd. thread-forming, 10-24 |
| 132   | 30091       | 0   | Screw, Hex slotted washer hd., 8-32 x 1/2   |
| 132   | 650548      | 0   | Screw, Hex washer hd., 8-32 x 5/16          |
| 133   | 650599      | 0   | Screw, Hex hd. cap, Sems, 1/4-20 x 1-1/2    |
| 144   | 650542      | 0   | Screw, Hex hd. cap, 5/16 18 x 13/16         |
| 145   | 31786       | 0   | Decal, Air cleaner                          |
| 149   | 30747       | 0   | Clip, Shorting                              |
| 149   | 31861       | 0   | Clip, Shorting                              |
| 150   | 16645       | 0   | Lockwasher                                  |
| 151   | 30066       | 0   | Screw                                       |
| 152   | 30063       | 0   | Screw                                       |
| 152   | 30688       | 0   | Screw, Hex hd. Sems, 1/4-20 x 1/2           |
| 153   | 30064       | 0   | Cover, Rectifier panel                      |
| 154   | 30065       | 0   | Nut, Long 5-40                              |
| 155   | 31324       | 0   | Decal, Name & H.P. (6 H.P.)                 |
| 155   | 31325       | 0   | Decal, Name & H.P. (5 H.P.)                 |
| 155   | 31328       | 0   | Decal, Name & H.P. (4 H.P.)                 |
| 156   | 28728       | 0   | Nut   |
| 157   | 28727       | 0   | Lockwasher                                  |
| 159   | 28726       | 0   | Screw, Phil. rd. hd., 5-40 x 9/16           |
| 160   | 30595       | 0   | Decal, Ezee-start                           |
| 162   | 29918       | 0   | Lockwasher                                  |
| 164   | 30322       | 0   | Nut & Lockwasher                            |
| 165   | 29916       | 0   | Clamp, Governor lever                       |
| 176   | 30972       | 0   | Bracket, Choke control                      |
| 177   | 29774       | 0   | Line, Fuel (Braided 8.25")                  |
| 182   | 30063       | 0   | Screw                                       |
| 182   | 30688       | 0   | Screw, Hex hd. Sems, 1/4-20 x 1/2           |
| 184   | 29521       | 0   | Pin, Dowel                                  |
| 194   | 31478       | 0   | Decal, H.P. (4 H.P.)                        |
| 194   | 31517       | 0   | Decal, H.P. (5 H.P.)                        |
| 194   | 32173       | 0   | Decal, H.P. (6 H.P.)                        |
| 206   | 30590A      | 0   | Washer, Flat                                |
| 209   | 30939       | 0   | Cover, Cylinder head                        |
| 232   | 31548       | 0   | Knob, Seed control                          |
| 232   | 32410       | 0   | Knob, Speed control                         |
| 238   | 650489      | 0   | Screw                                       |
| 253   | 30767       | 0   | Spacer, Air cleaner                         |
| 260   | 29752       | 0   | Nut   |
| 260   | 650116      | 0   | Nut, Lock                                   |
| 260   | 650456      | 0   | Nut, Lock                                   |
| 261   | 650168      | 0   | Washer, Flat                                |
| 262   | 29716       | 0   | Screw                                       |

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| Ref # | Part Number | Qty | Description                     |
|-------|-------------|-----|---------------------------------|
| 264A  | 590417      | 0   | Screen, Starter cup             |
| 264   | 32125       | 0   | Cup, Starter                    |
| 266   | 26460       | 0   | Clamp, Fuel line                |
| 267   | 33356       | 0   | Terminal, Ground                |
| 268   | 31584       | 0   | Cup, Spark plug                 |
| 269   | 31583       | 0   | Clamp, Wire                     |
| 270   | 31461       | 0   | Bushing, Crankshaft             |
| 271   | 31546       | 0   | Bushing, Crankshaft             |
| 272   | 31660       | 0   | Cover, Fuel pump pad            |
| 273   | 31726       | 0   | Bracket Assy., Speed control    |
| 275   | 31386       | 0   | Spring, Governor                |
| 276   | 31697       | 0   | Strap, Fuel tank                |
| 277   | 29212       | 0   | Screw                           |
| 277   | 650451      | 0   | Screw                           |
| 278   | 6202        | 0   | Screw                           |
| 286   | 27275       | 0   | Clip, Hi-tension wire           |
| 286   | 29443       | 0   | Clip, Fuel line                 |
| 289   | 730512      | 0   | Kit, Pre-cleaner                |
| 290   | 31667       | 0   | Spring, Pre-cleaner bag         |
| 291   | 31668       | 0   | Bag, Pre-cleaner                |
| 296A  | 650147      | 0   | Washer, Flat                    |
| 296   | 28942       | 0   | Screw                           |
| 296   | 650229      | 0   | Screw                           |
| 305   | 30547A      | 0   | Contact Assy., Breaker          |
| 306   | 30548A      | 0   | Condenser                       |
| 307   | 631021      | 0   | Inlet Needle, Seat & Clip Assy. |
| 309   | 31855       | 0   | Retainer, Bearing               |
| 310   | 27183       | 0   | Washer, Fiber                   |
| 311   | 650580      | 0   | Nut, Lock                       |
| 318   | 650583      | 0   | Washer, Flat                    |
| 328   | 730127      | 0   | Cleaner Assy., Air (Poly)       |
| 335   | 32130       | 0   | Decal, Long Life                |
| 352   | 8274        | 0   | Lockwasher                      |
| 360   | 631063A     | 0   | Carburetor                      |
| 361A  | 33018       | 0   | Harness, Adapter                |
| 361   | 610689A     | 0   | Magneto, Tecumseh               |
| 362   | 590449      | 0   | Starter, Rewind                 |
| 363   | 29965       | 0   | Motor, Starter (12 Volt)        |
| 363   | 32468       | 0   | Motor, Starter (12 Volt)        |
| 363   | 32468A      | 0   | Motor, Starter (12 Volt)        |
| 363   | 32468B      | 0   | Motor, Starter (12 Volt)        |
| 364   | 33235       | 0   | Gasket Set                      |



## Engine Parts List #2

| Ref # | Part Number | Qty | Description                                   |
|-------|-------------|-----|---|
| 34    | 27793       | 0   | Clip, Conduit                                 |
| 35    | 28942       | 0   | Screw   |
| 36    | 650694      | 0   | Screw, Hex hd. cap, 5/16-18 x 2               |
| 36    | 650695      | 0   | Screw, Hex hd. cap, 5/16-18 x 2-1/4 (Grade 8) |
| 36    | 650697      | 0   | Screw, Hex hd. cap, 5/16-18 x 2-1/2           |
| 42    | 26073       | 0   | Washer, Connecting rod bolt                   |
| 54    | 28819       | 0   | Spring, Fuel line                             |
| 54    | 31778       | 0   | Spring, Coil                                  |
| 60    | 650152      | 0   | Screw   |
| 67    | 650399      | 0   | Screw, Phil. fil. hd. Sems, 10-32 x 5/8       |
| 79    | 29752       | 0   | Nut   |
| 80    | 650572      | 0   | Screw   |
| 83    | 27272       | 0   | Gasket, Air cleaner                           |
| 84C   | 31810       | 0   | Elbow, Air cleaner                            |
| 85    | 29786       | 0   | Screw   |
| 85    | 650163      | 0   | Screw, Fil. hd. Sems, 10-32 x 7/8             |
| 85    | 650416      | 0   | Screw, Rd. hd. Sems, 10-32 x 1                |
| 85    | 650605      | 0   | Screw   |
| 88    | 650399      | 0   | Screw, Phil. fil. hd. Sems, 10-32 x 5/8       |
| 88    | 650521      | 0   | Screw   |
| 88    | 28820       | 0   | Screw   |
| 91    | 30312       | 0   | Screw, Hex washer hd. Sems, 10-32 x 1/2       |
| 98    | 28569       | 0   | Spring, Compression                           |
| 98    | 32924       | 0   | Spring, Compression                           |
| 99    | 29500       | 0   | Screw, Fil. hd. mach., Sems, 8-32 x 3/4       |
| 99    | 650223      | 0   | Screw, Fil. slotted hd. Sems, 8-32 x 5/8      |
| 99    | 650688      | 0   | Screw, Hex hd., 10-32 x 1-5/16" (Drilled)     |
| 104   | 28443       | 0   | Nut, Conduit (1/8" thick)                     |
| 104   | 32862       | 0   | Nut, Conduit (1/4" thick)                     |
| 115   | 32387A      | 0   | Cap, Fuel filler (Charcoal Plastic) (Spurt)   |
| 115   | 33032       | 0   | Cap, Fuel filler (Red Plastic) (Spurt)        |
| 118   | 29774       | 0   | Line, Fuel (Braided 8.25")                    |
| 118   | 30705       | 0   | Line, Fuel (Braided 16")                      |
| 118   | 30962       | 0   | Line, Fuel (Braided 32")                      |
| 125   | 27930       | 0   | Gasket, Exhaust                               |
| 145   | 31786       | 0   | Decal, Air cleaner                            |
| 146   | 28451       | 0   | Gasket, Housing                               |
| 171   | 24590       | 0   | Plug, Pipe                                    |
| 215   | 28301       | 0   | Pulley, Starter                               |
| 216   | 590343      | 0   | Rope & Handle Assy., Starter                  |
| 228   | 30820       | 0   | Baffle, Heat                                  |
| 229   | 28942       | 0   | Screw   |
| 230   | 650257      | 0   | Screw, Pan hd. Sems, 8-32 x 5/16              |
| 253   | 30767       | 0   | Spacer, Air cleaner                           |
| 255   | 28820       | 0   | Screw   |
| 256   | 650760      | 0   | Screw   |
| 257   | 31291       | 0   | Plug, Cover                                   |
| 262   | 29716       | 0   | Screw   |
| 265   | 650701      | 0   | Screw, Hex washer hd. shakeproof,             |
| 266   | 26460       | 0   | Clamp, Fuel line                              |
| 289   | 730512      | 0   | Kit, Pre-cleaner                              |
| 290   | 31667       | 0   | Spring, Pre-cleaner bag                       |
| 291   | 31668       | 0   | Bag, Pre-cleaner                              |
| 297   | 31811       | 0   | Bolt, Air cleaner                             |
| 298   | 31812       | 0   | Washer  |
| 299   | 31820       | 0   | Cleaner Assy., Oil bath                       |
| 300   | 31821       | 0   | Brace, Cleaner                                |
| 301   | 650513      | 0   | Nut, Wing                                     |

| Ref # | Part Number | Qty | Description                         |
|-------|-------------|-----|-------------------------------------|
| 327   | 730128      | 0   | Cleaner Assy., Air                  |
| 328   | 730127      | 0   | Cleaner Assy., Air (Poly)           |
| 342   | 29212       | 0   | Screw                               |
| 347   | 31288       | 0   | Muffler Adapter Kit                 |
| 348   | 730130      | 0   | Muffler Adapter Kit                 |
| 349   | 6021        | 0   | Screw                               |
| 350   | 650697      | 0   | Screw, Hex hd. cap, 5/16-18 x 2-1/2 |
| 351   | 650178      | 0   | Screw                               |
| 353   | 30803       | 0   | Bracket Kit, Air cleaner            |
| 360   | 631063A     | 0   | Carburetor                          |