



## Engine Parts List #1

| Ref # | Part Number | Qty | Description                              |
|-------|-------------|-----|--|
|       | 1 31536B    | 0   | Cylinder Assy. (2-5/8" Bore)             |
|       | 2 27652     | 0   | Pin, Dowel                               |
|       | 3 31461     | 0   | Bushing, Crankshaft                      |
|       | 4 27876B    | 0   | Seal, Oil                                |
|       | 5 27877A    | 0   | Valve, Intake (Standard)                 |
|       | 5 27880A    | 0   | Valve, Intake (1/32" oversize)           |
|       | 6 27878A    | 0   | Valve, Intake (Standard)                 |
|       | 6 27880A    | 0   | Valve, Intake (1/32" oversize)           |
|       | 7 27882     | 0   | Cap, Upper valve spring                  |
|       | 8A 27881    | 0   | Spring, Valve                            |
|       | 8 27881     | 0   | Spring, Valve                            |
|       | 9 32581     | 0   | Cap, Lower valve spring                  |
|       | 9A 32581    | 0   | Cap, Lower valve spring                  |
|       | 10 20810    | 0   | Pin, Valve spring retaining              |
|       | 11 29477A   | 0   | Crankshaft Assy.                         |
|       | 12 29783    | 0   | Pin, Crankshaft gear                     |
|       | 13 27884    | 0   | Gear, Crankshaft                         |
|       | 14 34531    | 0   | Piston, Pin & Ring Assy. (Std.) (2-5/8") |
|       | 14 34532    | 0   | Piston, Pin & Ring Assy. (.010 oversize) |
|       | 14 34533    | 0   | Piston, Pin & Ring Assy. (.020 oversize) |
|       | 14A 33312B  | 0   | Piston & Pin Assy. (Std.) (2-5/8")       |
|       | 14A 33313B  | 0   | Piston & Pin Assy. (.010 oversize)       |
|       | 14A 33314B  | 0   | Piston & Pin Assy. (.020 oversize)       |
|       | 15 33315    | 0   | Ring Set, Piston (Std.) (2-5/8")         |
|       | 15 33316    | 0   | Ring Set, Piston (.010 oversize)         |
|       | 15 33317    | 0   | Ring Set, Piston (.020 oversize)         |
|       | 16 27888    | 0   | Ring, Piston pin retaining               |
|       | 17 31295C   | 0   | Rod Assy., Connecting                    |
|       | 18 650662B  | 0   | Bolt, Connecting rod                     |
|       | 18A 30682   | 0   | Bolt, Connecting rod                     |
|       | 18A 32077   | 0   | Bolt, Connecting rod                     |
|       | 19 26073    | 0   | Washer, Connecting rod bolt              |
|       | 20 28264    | 0   | Nut                                      |
|       | 21 34034    | 0   | Lifter, Valve                            |
|       | 22 33157    | 0   | Camshaft (Compression Release)           |
|       | 23 30684    | 0   | Gasket, Mounting flange                  |
|       | 24 31471C   | 0   | Flange, Mounting                         |
|       | 25 31355    | 0   | Screen, Oil filter                       |
|       | 26 29117    | 0   | Screw                                    |
|       | 30 29673    | 0   | Gasket, Filler plug                      |
|       | 31 27625    | 0   | Plug, Oil filler                         |
|       | 32 31462    | 0   | Bushing, Crankshaft                      |
|       | 34 27897    | 0   | Seal, Oil                                |
|       | 34A 28926   | 0   | Seal, Oil (Camshaft)                     |
|       | 35 650548   | 0   | Screw, Hex washer hd., 8-32 x 5/16       |
|       | 36 31335    | 0   | Clamp, Governor lever                    |
|       | 37 27642    | 0   | Plug, Drain                              |
|       | 38 31356    | 0   | Pump Assy., Oil                          |
|       | 39 30564    | 0   | Screw                                    |
|       | 39 650488   | 0   | Screw                                    |
|       | 41 28954    | 0   | Cover, Oil filler hole                   |
|       | 42 28749    | 0   | Screw, Phil. Rd. hd., w/neoprene washer, |
|       | 43 28747    | 0   | Gasket, Oil filler tube                  |
|       | 44C 29759   | 0   | Tube, Oil filler (Metal)                 |
|       | 45 29760    | 0   | Dipstick, Oil                            |
|       | 46 29673    | 0   | Gasket, Filler plug                      |
|       | 47 28938B   | 0   | Gasket, Cylinder head                    |
|       | 48 30938A   | 0   | Head, Cylinder                           |

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|-------|-------------|-----|--|
| 49    | 28833       | 0   | Gasket, Oil drain                            |
| 50    | 32704       | 0   | Clip, Fuel line                              |
| 50A   | 31560       | 0   | Clip, Fuel line                              |
| 50A   | 32704       | 0   | Clip, Fuel line                              |
| 51B   | 650691      | 0   | Washer, Flat                                 |
| 51    | 650694A     | 0   | Screw, Hex flange hd., 5/16-18 x 2           |
| 51    | 650697A     | 0   | Screw, Hex flange hd., 5/16-18 x 2-1/2       |
| 51A   | 26073       | 0   | Washer, Connecting rod bolt                  |
| 51A   | 650690      | 0   | Washer, Belleville                           |
| 52    | 33636       | 0   | Plug, Spark (Champion J-8 or equivalent)     |
| 52    | 34251       | 0   | Resistor Spark Plug                          |
| 53    | 27896       | 0   | Gasket, Breather cover                       |
| 54    | 28423       | 0   | Body, Breather                               |
| 55    | 28424       | 0   | Element, Breather                            |
| 56    | 28425       | 0   | Cover, Valve chamber                         |
| 57    | 27627       | 0   | Tube, Breather                               |
| 58    | 650128      | 0   | Screw  |
| 59    | 650378      | 0   | Screw  |
| 60    | 27915       | 0   | Gasket, Intake pipe                          |
| 61    | 31512       | 0   | Pipe, Intake                                 |
| 65    | 26756       | 0   | Gasket, Carburetor                           |
| 67    | 32629A      | 0   | Housing, Blower (5.56 Dia. starter mtg. bolt |
| 69    | 6201        | 0   | Screw  |
| 69    | 6202        | 0   | Screw  |
| 70    | 8274        | 0   | Lockwasher                                   |
| 71    | 29752       | 0   | Nut  |
| 74    | 30936       | 0   | Flange, Air cleaner                          |
| 76    | 27656       | 0   | Washer, Flat                                 |
| 76    | 650168      | 0   | Washer, Flat                                 |
| 77    | 30767       | 0   | Spacer, Air cleaner                          |
| 78    | 650152      | 0   | Screw  |
| 79    | 610973      | 0   | Terminal Assy.                               |
| 80    | 31342       | 0   | Spring, Compression                          |
| 81    | 650549      | 0   | Screw  |
| 82    | 31520A      | 0   | Control Assy., Speed                         |
| 83    | 30200       | 0   | Screw  |
| 84    | 27272       | 0   | Gasket, Air cleaner                          |
| 85    | 31691       | 0   | Bracket, Air cleaner                         |
| 86    | 28820       | 0   | Screw  |
| 87    | 730127      | 0   | Cleaner Assy., Air (Poly)                    |
| 88    | 30727       | 0   | Element, Air cleaner                         |
| 89    | 31715       | 0   | Body, Air cleaner                            |
| 95    | 29536       | 0   | Baffle, Blower housing                       |
| 96    | 650561      | 0   | Screw  |
| 98    | 30884       | 0   | Key, Flywheel                                |
| 99    | 31778       | 0   | Spring, Coil                                 |
| 100   | 30939A      | 0   | Cover, Cylinder head                         |
| 101   | 650489      | 0   | Screw  |
| 101   | 650516      | 0   | Screw  |
| 102   | 32582       | 0   | Link, Governor spring                        |
| 103   | 31361       | 0   | Spring, Governor                             |
| 104   | 30669       | 0   | Rod, Governor                                |
| 105   | 31357       | 0   | Lever, Governor                              |
| 106   | 31823       | 0   | Link, Throttle                               |
| 107   | 28277       | 0   | Washer, Flat                                 |
| 109   | 31707A      | 0   | Spacer Assy., Governor                       |
| 110   | 30668       | 0   | Shaft, Mechanical governor                   |
| 111   | 30591       | 0   | Gear Assy., Governor                         |

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| Ref # | Part Number | Qty | Description                             |
|-------|-------------|-----|---|
| 112   | 29193       | 0   | Ring, Retaining                         |
| 113   | 30588A      | 0   | Spool, Governor                         |
| 114   | 27793       | 0   | Clip, Conduit                           |
| 115   | 28942       | 0   | Screw                                   |
| 117   | 30622       | 0   | Extension, Blower housing               |
| 118   | 650128      | 0   | Screw                                   |
| 119   | 30063       | 0   | Screw                                   |
| 119   | 30688       | 0   | Screw, Hex hd. Sems, 1/4-20 x 1/2       |
| 120   | 650557      | 0   | Nut                                     |
| 122   | 27275       | 0   | Clip, Hi-tension wire                   |
| 122   | 33685       | 0   | Clip, Hi-tension wire                   |
| 123   | 650815      | 0   | Washer, Belleville                      |
| 124   | 8116        | 0   | Nut                                     |
| 126   | 32584       | 0   | Tank Assy., Fuel (White Poly) (2 qt.)   |
| 127   | 33032       | 0   | Cap, Fuel filler (Red Plastic) (Spurt   |
| 127   | 34210       | 0   | Cap, Fuel filler (Red Plastic) (Spurt   |
| 127   | 410144B     | 0   | Cap, Fuel filler (White Plastic) (Std.) |
| 131   | 29747A      | 0   | Screw                                   |
| 137   | 29716       | 0   | Screw                                   |
| 137   | 650601      | 0   | Screw, Fil. hd., 1/4-28 x 2             |
| 143   | 590417      | 0   | Screen, Starter cup                     |
| 144   | 32125       | 0   | Cup, Starter                            |
| 169   | 31588       | 0   | Plate, Muffler locking                  |
| 171   | 28269       | 0   | Muffler                                 |
| 172   | 30196       | 0   | Screw                                   |
| 172   | 6021A       | 0   | Screw, Hex flange hd., 5/16-18 x 1-1/2  |
| 172   | 650689      | 0   | Screw                                   |
| 172   | 650695A     | 0   | Screw, Hex flange hd., 5/16-18 x 2-1/4  |
| 172   | 650696      | 0   | Screw, Hex hd., 5/16-18 x 2-3/4         |
| 172   | 650697A     | 0   | Screw, Hex flange hd., 5/16-18 x 2-1/2  |
| 172A  | 8274        | 0   | Lockwasher                              |
| 173   | 27930       | 0   | Gasket, Exhaust                         |
| 181   | 29573       | 0   | Elbow, Oil drain (90°)                  |
| 184   | 30747       | 0   | Clip, Shorting                          |
| 185   | 16645       | 0   | Lockwasher                              |
| 206   | 31873       | 0   | Baffle, Air                             |
| 234   | 34346       | 0   | Decal, Instruction                      |
| 234D  | 31490       | 0   | Decal, Oil                              |
| 234A  | 31478       | 0   | Decal, H.P. (4 H.P.)                    |
| 234A  | 31517       | 0   | Decal, H.P. (5 H.P.)                    |
| 234A  | 32173       | 0   | Decal, H.P. (6 H.P.)                    |
| 234A  | 34316       | 0   | Decal, Name                             |
| 234B  | 31752       | 0   | Decal, Air cleaner                      |
| 235   | 30547A      | 0   | Contact Assy., Breaker                  |
| 236   | 30548B      | 0   | Condenser                               |
| 237   | 631021      | 0   | Inlet Needle, Seat & Clip Assy.         |
| 240   | 631460      | 0   | Carburetor                              |
| 241   | 610689A     | 0   | Magneto, Tecumseh                       |
| 242   | 590420      | 0   | Starter, Rewind                         |
| 245   | 33234A      | 0   | Gasket Set                              |



## Engine Parts List #2

| Ref # | Part Number | Qty | Description                       |
|-------|-------------|-----|-----------------------------------|
| 51A   | 26073       | 0   | Washer, Connecting rod bolt       |
| 51A   | 650690      | 0   | Washer, Belleville                |
| 97    | 29749       | 0   | Clip, Retaining                   |
| 130   | 28511       | 0   | Plate, Securing                   |
| 140   | 590343      | 0   | Rope & Handle Assy., Starter      |
| 141   | 28301       | 0   | Pulley, Starter                   |
| 149   | 30063       | 0   | Screw                             |
| 149   | 30688       | 0   | Screw, Hex hd. Sems, 1/4-20 x 1/2 |
| 151   | 28726       | 0   | Screw, Phil. rd. hd., 5-40 x 9/16 |
| 152   | 28727       | 0   | Lockwasher                        |
| 153   | 28728       | 0   | Nut                               |
| 154   | 30064       | 0   | Cover, Rectifier panel            |
| 155   | 30065       | 0   | Nut, Long 5-40                    |
| 156   | 30066       | 0   | Screw                             |
| 163A  | 33018       | 0   | Harness, Adapter                  |
| 201   | 28545       | 0   | Grommet, Plastic                  |
| 202   | 33356       | 0   | Terminal, Ground                  |
| 203   | 650643      | 0   | Screw                             |
| 204   | 24522       | 0   | Control, Throttle                 |
| 234G  | 30595       | 0   | Decal, Ezee-start                 |
| 244   | 33518A      | 0   | Starter Motor Kit (110-120 Volt)  |
| 244A  | 30811A      | 0   | Flywheel                          |



| Ref # | Part Number | Qty | Description                            |
|-------|-------------|-----|--|
| 72    | 31572       | 0   | Strap, Fuel tank                       |
| 73    | 650556      | 0   | Screw                                  |
| 73    | 792028      | 0   | Screw, Hex hd. Sems, 5/16-18 x 7/8     |
| 86    | 28820       | 0   | Screw                                  |
| 116B  | 28837       | 0   | Strainer & Fitting                     |
| 116   | 28584       | 0   | Strainer & Elbow                       |
| 116A  | 29683       | 0   | Strainer & Shut-off                    |
| 130   | 28511       | 0   | Plate, Securing                        |
| 131   | 29747A      | 0   | Screw                                  |
| 132   | 28819       | 0   | Spring, Fuel line                      |
| 133   | 31613       | 0   | Brace, Fuel tank                       |
| 134   | 29774       | 0   | Line, Fuel (Braided 8.25")             |
| 134   | 30705       | 0   | Line, Fuel (Braided 16")               |
| 134   | 30962       | 0   | Line, Fuel (Braided 32")               |
| 134   | 30965       | 0   | Line, Fuel (Braided 48")               |
| 135   | 26460       | 0   | Clamp, Fuel line                       |
| 145   | 31668       | 0   | Bag, Pre-cleaner                       |
| 146   | 31667       | 0   | Spring, Pre-cleaner bag                |
| 147   | 730512      | 0   | Kit, Pre-cleaner                       |
| 162   | 8274        | 0   | Lockwasher                             |
| 164   | 33323       | 0   | Screen, Muffler                        |
| 165   | 33700       | 0   | Cover & Tube, Muffler                  |
| 166   | 650578      | 0   | Screw                                  |
| 167   | 31288       | 0   | Muffler Adapter Kit                    |
| 168   | 730130      | 0   | Muffler Adapter Kit                    |
| 170   | 28443       | 0   | Nut, Conduit (1/8" thick)              |
| 170   | 32862       | 0   | Nut, Conduit (1/4" thick)              |
| 171E  | 391026      | 0   | Muffler                                |
| 172   | 30196       | 0   | Screw                                  |
| 172   | 6021A       | 0   | Screw, Hex flange hd., 5/16-18 x 1-1/2 |
| 172   | 650689      | 0   | Screw                                  |
| 172   | 650695A     | 0   | Screw, Hex flange hd., 5/16-18 x 2-1/4 |
| 172   | 650696      | 0   | Screw, Hex hd., 5/16-18 x 2-3/4        |
| 172   | 650697A     | 0   | Screw, Hex flange hd., 5/16-18 x 2-1/2 |
| 173   | 27930       | 0   | Gasket, Exhaust                        |
| 179   | 30244       | 0   | Nipple, Exhaust pipe (2-1/2")          |
| 179   | 32332       | 0   | Nipple, Exhaust pipe (2")              |
| 179   | 32454       | 0   | Nipple, Exhaust pipe (1-3/8")          |
| 180   | 29574       | 0   | Elbow, Exhaust (90°)                   |
| 180   | 30209       | 0   | Elbow, Exhaust (45°)                   |