



| Ref # | Part Number | Qty | Description                               |
|-------|-------------|-----|---|
|       | 1 33089     | 0   | Cylinder Assy. (3-5/16" Bore)             |
|       | 2 27652     | 0   | Pin, Dowel                                |
|       | 3 33359     | 0   | Baffle, Oil                               |
|       | 3A 650128   | 0   | Screw                                     |
|       | 4 31950     | 0   | Seal, Oil                                 |
|       | 5 31940     | 0   | Valve, Intake (Std.)                      |
|       | 5 31941     | 0   | Valve, Intake (1/32" oversize)            |
|       | 6 31942     | 0   | Valve, Exhaust (Std.)                     |
|       | 6 31943     | 0   | Valve, Exhaust (1/32" oversize)           |
|       | 7 31944     | 0   | Spring, Valve                             |
|       | 8 31945     | 0   | Cap, Valve spring (Std.)                  |
|       | 8 31946     | 0   | Cap, Valve spring (1/32" oversize)        |
|       | 8A 31945    | 0   | Cap, Valve spring (Std.)                  |
|       | 8A 31946    | 0   | Cap, Valve spring (1/32" oversize)        |
|       | 9 20810     | 0   | Pin, Valve spring retaining               |
|       | 10 31939    | 0   | Lifter, Valve                             |
|       | 11 33409A   | 0   | Crankshaft Assy.                          |
|       | 12 29783    | 0   | Pin, Crankshaft gear                      |
|       | 13 33091    | 0   | Gear, Crankshaft                          |
|       | 14A 32001C  | 0   | Piston & Pin Assy. (Std.) (3-5/16")       |
|       | 14A 32002B  | 0   | Piston & Pin Assy. (.010 oversize)        |
|       | 14A 32003B  | 0   | Piston & Pin Assy. (.020 oversize)        |
|       | 14A 32619B  | 0   | Piston & Pin Assy. (.030 oversize)        |
|       | 14A 32620B  | 0   | Piston & Pin Assy. (.040 oversize)        |
|       | 14 34508    | 0   | Piston, Pin & Ring Assy. (Std.) (3-5/16") |
|       | 14 34509    | 0   | Piston, Pin & Ring Assy. (.010 oversize)  |
|       | 14 34510    | 0   | Piston, Pin & Ring Assy. (.020 oversize)  |
|       | 14 34523    | 0   | Piston, Pin & Ring Assy. (.040 oversize)  |
|       | 14 34850    | 0   | Piston, Pin & Ring Assy. (.030 oversize)  |
|       | 15 32004    | 0   | Ring Set, Piston (Std.) (3-5/16")         |
|       | 15 32005    | 0   | Ring Set, Piston (.010 oversize)          |
|       | 15 32006    | 0   | Ring Set, Piston (.020 oversize)          |
|       | 15 32623    | 0   | Ring Set, Piston (.030 oversize)          |
|       | 15 32624    | 0   | Ring Set, Piston (.040 oversize)          |
|       | 16 31919    | 0   | Ring, Piston pin retaining                |
|       | 17 33093A   | 0   | Rod Assy., Connecting (Std.)              |
|       | 17 34383    | 0   | Rod Assy., Connecting (.010 undersize)    |
|       | 17 34384    | 0   | Rod Assy., Connecting (.020 undersize)    |
|       | 18 32077    | 0   | Bolt, Connecting rod                      |
|       | 19 26073    | 0   | Washer, Connecting rod bolt               |
|       | 20 28264    | 0   | Nut                                       |
|       | 21 32150    | 0   | Camshaft Assy. (Mechanical Compression)   |
|       | 22 33092    | 0   | Dipper, Oil                               |
|       | 23 33094    | 0   | Flange, Mounting                          |
|       | 24 31930    | 0   | Shaft, Mechanical governor                |
|       | 25 31947    | 0   | Gear Assy., Governor                      |
|       | 26 29193    | 0   | Ring, Retaining                           |
|       | 27 31948    | 0   | Spool, Governor                           |
|       | 28 30590A   | 0   | Washer, Flat                              |
|       | 29 31927    | 0   | Plug, Oil drain (3/8-18 sq. hd.)          |
|       | 34 31956A   | 0   | Gasket, Mounting flange                   |
|       | 35 30564    | 0   | Screw                                     |
|       | 36 650588   | 0   | Screw, Hex hd. Sems, 1/4-20 x 2           |
|       | 37 31957    | 0   | Breather Assy.                            |
|       | 38 27627    | 0   | Tube, Breather                            |
|       | 39 31958    | 0   | Gasket, Breather                          |
|       | 40 650128   | 0   | Screw                                     |
|       | 41 31959    | 0   | Baffle, Air                               |

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|-------|-------------|-----|---|
| 42    | 33095       | 0   | Flange, Carburetor                          |
| 43A   | 31960       | 0   | Gasket, Carburetor                          |
| 43    | 31960       | 0   | Gasket, Carburetor                          |
| 44    | 6201        | 0   | Screw                                       |
| 45    | 29634       | 0   | Fitting, Fuel                               |
| 46    | 29752       | 0   | Nut   |
| 47    | 650517      | 0   | Screw, Fil. flex hd. self-locking, 1/4-20 x |
| 48    | 33034       | 0   | Head, Cylinder                              |
| 49    | 32000A      | 0   | Gasket, Cylinder head                       |
| 50    | 33035       | 0   | Cover, Cylinder head                        |
| 51    | 33636       | 0   | Plug, Spark (Champion J-8 or equivalent)    |
| 51    | 34251       | 0   | Resistor Spark Plug                         |
| 52    | 650691      | 0   | Washer, Flat                                |
| 53    | 650690      | 0   | Washer, Belleville                          |
| 54    | 650711      | 0   | Screw, Hex hd., 5/16-18 x 1-5/8             |
| 55    | 33096       | 0   | Lever, Governor                             |
| 56    | 31964       | 0   | Clamp, Governor lever                       |
| 57    | 650518      | 0   | Lockwasher, No. 10                          |
| 58    | 30312       | 0   | Screw, Hex washer hd. Sems, 10-32 x 1/2     |
| 59    | 650544      | 0   | Screw, Pan flex hd., 10-24 x 7/8            |
| 60    | 7975        | 0   | Nut, Square, 10-24                          |
| 61    | 31965       | 0   | Plate, Governor spring                      |
| 62    | 33097       | 0   | Lever, Governor adjusting                   |
| 63    | 28558       | 0   | Washer, Wave                                |
| 64    | 31966       | 0   | Bushing, Governor lever                     |
| 65    | 650597      | 0   | Screw, Hex washer hd., 10-24 x 5/8          |
| 66    | 31967       | 0   | Spring, Governor                            |
| 67    | 33098       | 0   | Link, Governor                              |
| 68    | 650591      | 0   | Screw, Fil. hd., 10-24 x 2                  |
| 69    | 33099       | 0   | Spring                                      |
| 70    | 32677       | 0   | Cover, Cylinder                             |
| 71    | 31971       | 0   | Gasket, Shim (.004/.005 thick)              |
| 71    | 31972       | 0   | Gasket, Shim (.005/.007 thick,)             |
| 72    | 32031       | 0   | Spacer, Steel (.010 thick)                  |
| 73    | 32599       | 0   | "O" Ring                                    |
| 74    | 31932       | 0   | Bearing, Tapered roller                     |
| 75    | 31928       | 0   | Cup, Bearing                                |
| 76    | 32425       | 0   | Rod Assy., Governor                         |
| 77    | 32426       | 0   | Spacer, Governor rod                        |
| 79    | 650666      | 0   | Washer, Lock                                |
| 80    | 650594      | 0   | Nut, Flywheel                               |
| 81    | 28537       | 0   | Washer, Flat                                |
| 82    | 650128      | 0   | Screw                                       |
| 83    | 33038       | 0   | Plug, Button                                |
| 84    | 650561      | 0   | Screw                                       |
| 85    | 31975       | 0   | Baffle, Blower housing                      |
| 86    | 28545       | 0   | Grommet, Plastic                            |
| 87    | 33356       | 0   | Terminal, Ground                            |
| 88    | 650643      | 0   | Screw                                       |
| 89    | 30831       | 0   | Wire, Ground (Female fitting both ends)     |
| 90    | 30688       | 0   | Screw, Hex hd. Sems, 1/4-20 x 1/2           |
| 90    | 650128      | 0   | Screw                                       |
| 91    | 31976       | 0   | Extension, Blower housing                   |
| 92    | 26073       | 0   | Washer, Connecting rod bolt                 |
| 93    | 650713      | 0   | Screw, Hex hd., 5/16-18 x 5/8               |
| 94    | 33037       | 0   | Housing, Blower                             |
| 95    | 27793       | 0   | Clip, Conduit                               |
| 96    | 28942       | 0   | Screw                                       |

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| 97    | 8274        | 0   | Lockwasher                                   |
| 98    | 26073       | 0   | Washer, Connecting rod bolt                  |
| 99    | 650595      | 0   | Screw, Hex hd., 5/16-24 x 3/8                |
| 100   | 650890      | 0   | Lockwasher, Shakeproof 5/16                  |
| 101   | 32039       | 0   | Switch, Stop                                 |
| 102   | 650624      | 0   | Screw, Hex hd., 5/16-24 x 9/16               |
| 103   | 27272       | 0   | Gasket, Air cleaner                          |
| 104   | 30767       | 0   | Spacer, Air cleaner                          |
| 105   | 650399      | 0   | Screw, Phil. fil. hd. Sems, 10-32 x 5/8      |
| 106   | 650513      | 0   | Nut, Wing                                    |
| 107   | 32378       | 0   | Bracket, Air cleaner                         |
| 108   | 32376       | 0   | Bracket, Air cleaner                         |
| 109A  | 32008       | 0   | Element, Air cleaner                         |
| 110   | 32009       | 0   | Cover, Air cleaner                           |
| 111   | 31481       | 0   | Washer, Copper                               |
| 113   | 32043B      | 0   | Muffler                                      |
| 116   | 32042       | 0   | Nipple, Exhaust pipe (2")                    |
| 120   | 27625       | 0   | Plug, Oil filler                             |
| 121   | 29673       | 0   | Gasket, Filler plug                          |
| 158   | 32048       | 0   | Hub, Starter                                 |
| 159   | 32049       | 0   | Screen, Starter hub                          |
| 160   | 650516      | 0   | Screw  |
| 161   | 650598      | 0   | Screw, Hex hd. Sems, 1/4-20 x 3/4            |
| 162   | 8345        | 0   | Washer, 1/4                                  |
| 168   | 650675      | 0   | Washer, Flat                                 |
| 174   | 650668      | 0   | Screw, Flat hd., 5/16-18 x 13/16             |
| 175   | 650679      | 0   | Lockwasher                                   |
| 176   | 650592      | 0   | Key, Flywheel                                |
| 177   | 610758      | 0   | Flywheel (Solid state)                       |
| 177A  | 730201      | 0   | Trigger Pin Kit                              |
| 178   | 610760      | 0   | Transformer Assy.                            |
| 179   | 650561      | 0   | Screw  |
| 180   | 650669      | 0   | Screw, Hex hd. Sems w/flat washer, 5/16-18 x |
| 180A  | 650489      | 0   | Screw  |
| 181   | 610759      | 0   | Magneto (Solid state)                        |
| 183   | 610118      | 0   | Cover, Spark plug                            |
| 184   | 610750      | 0   | Grommet, Lead wire                           |
| 206C  | 31752       | 0   | Decal, Air cleaner                           |
| 206A  | 550223      | 0   | Decal, Name                                  |
| 206   | 34346       | 0   | Decal, Instruction                           |
| 207   | 32255A      | 0   | Valve, Seat, Gasket & Spring Assy. (.083     |
| 209   | 631608      | 0   | Carburetor                                   |
| 210   | 590405      | 0   | Starter, Rewind                              |
| 212   | 33237A      | 0   | Gasket set                                   |



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| 103   | 27272       | 0   | Gasket, Air cleaner                   |
| 106   | 650513      | 0   | Nut, Wing                             |
| 151   | 34118       | 0   | Cap, Fuel filler (Red Plastic) (Spurt |
| 151   | 34210       | 0   | Cap, Fuel filler (Red Plastic) (Spurt |
| 183   | 610118      | 0   | Cover, Spark plug                     |
| 184   | 610750      | 0   | Grommet, Lead wire                    |