



| Ref # | Part Number | Qty | Description |
|-------|-------------|-----|---|
| 1 | 33089 | 0 | Cylinder Assy. (3-5/16" Bore) |
| 2 | 27652 | 0 | Pin, Dowel |
| 3A | 650128 | 0 | Screw |
| 3 | 33359 | 0 | Baffle, Oil |
| 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 |

| Ref # | Part Number | Qty | Description |
|-------|-------------|-----|---|
| 42 | 34078 | 0 | Flange, Carburetor |
| 43 | 31960 | 0 | Gasket, Carburetor |
| 43A | 33263 | 0 | Gasket, Carburetor |
| 44 | 650698 | 0 | Screw, Fil. hd., 1/4-28 x 7/8 |
| 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 | 32577 | 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 |
| 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 |
| 97 | 8274 | 0 | Lockwasher |
| 98 | 8274 | 0 | Lockwasher |

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|-------|-------------|-----|---|
| | 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 34065 | 0 | Bracket, Air cleaner |
| | 108 32907B | 0 | Bracket, Air cleaner |
| | 109A 32008 | 0 | Element, Air cleaner |
| | 110 32810 | 0 | Cover, Air cleaner |
| | 111 31481 | 0 | Washer, Copper |
| | 113 32043B | 0 | Muffler |
| | 114 650590 | 0 | Nut, Conduit |
| | 115 32141 | 0 | Elbow, Exhaust (90°) |
| | 120 27625 | 0 | Plug, Oil filler |
| | 121 29673 | 0 | Gasket, Filler plug |
| | 124 31990 | 0 | Bracket, Bowden wire |
| | 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 792028 | 0 | Screw, Hex hd. Sems, 5/16-18 x 7/8 |
| | 176 650592 | 0 | Key, Flywheel |
| | 177A 730201 | 0 | Trigger Pin Kit |
| | 177 611000 | 0 | Flywheel (Solid state) |
| | 183 610118 | 0 | Cover, Spark plug |
| | 184 610750 | 0 | Grommet, Lead wire |
| | 206A 34768 | 0 | Decal, Name |
| | 206 34346 | 0 | Decal, Instruction |
| | 208 631021 | 0 | Inlet Needle, Seat & Clip Assy. |
| | 209 631933 | 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 |
| 181A | 610965 | 0 | Stator Plate Assy. (Solid state) |
| 182 | 650399 | 0 | Screw, Phil. fil. hd. Sems, 10-32 x 5/8 |
| 183 | 610118 | 0 | Cover, Spark plug |
| 184 | 610750 | 0 | Grommet, Lead wire |
| 185 | 650661 | 0 | Screw, Fil. hd. w/conical spring washer, |
| 186 | 610408 | 0 | Nut, Terminal |
| 187 | 610908 | 0 | Terminal, Female |
| 191 | 610906 | 0 | Magneto, Solid state (Incl. Nos. 183, 184, |