

ILLUSTRATION SHOWS TYPICAL PARTS ONLY. ORDER BY PART NUMBER. PARTS NOT LISTED ARE SUPPLIED BY OEM.

VIEW 1 of 3



| Ref # | Part Number | Qty | Description  |
|-------|-------------|-----|--|
| 1     | 33707A      |     | Cylinder (Incl. 2, 4 & 33) (3-1/2" Bo re)  |
| 2     | 31927       |     | Pipe Plug, 3/8-18 sq. head (Use as re quired)  |
| 2     | 28483       |     | Pipe Plug (3/8-18 hex countersunk) (A s req.)  |
| 2     |             |     | Pipe Plug (3/4-14 sq.hd.)(As req.)(Bu y local)   |
| 2     | 9556        |     | Pipe Plug (1/8-27 sq. hd.) (Use as re quired)  |
| 2     | 28534       |     | Pipe Plug(1/8-27 hex c/sunk headless) (As req)   |
| 4     | 27652       |     | Pin, Dowel   |
| 5     | 34169A      |     | Crankshaft (Incl. 6 thru 9) NOTE: When using this crankshaft to repair older units equippedwith straight cut cam and governor gears,it will be necessary to order 34751 helical governor gear assembly and 34752 helical camshaft in order to the complete the repair. |
| 6     | 29783       |     | Pin, Crankshaft gear   |
| 7     | 34692       |     | Gear Crankshaft (Helical)  |
| 8     | 31932       |     | Bearing, Tapered roller  |
| 9     | 31928       |     | Cup, Bearing   |
| 11A   | 32238B      |     | Piston & Pin Ass'y. (Std.)(3-1/2")(In cl.12)   |
| 11A   | 32239B      |     | Piston & Pin Ass'y. (.010" OS) (Incl. 12)  |
| 11A   | 32240B      |     | Piston & Pin Ass'y. (.020 " OS) (Incl . 12)  |
| 11    | 34511       |     | Piston, Pin & Ring Set (Std.) (3-1/2" Bore)  |
| 11    | 34512       |     | Piston, Pin & Ring Set (.010" OS)  |
| 11    | 34513       |     | Piston, Pin & Ring Set (.020" OS)  |
| 12    | 31919       |     | Ring, Piston pin retaining   |
| 13    | 32241       |     | Ring Set (Std.) (3-1/2" Bore)  |
| 13    | 32242       |     | Ring Set (.010" OS)  |
| 13    | 32243       |     | Ring Set (.020" OS)  |
| 14    | 33093A      |     | Connecting Rod Assy.(Std.)(Incl.15, 1 6 & 17)  |
| 14    | 34383       |     | Connecting Rod Assy.(.010" US)(Incl.1 5,16,17)   |
| 14    | 34384       |     | Connecting Rod Assy.(.020" US)(Incl.1 5,16.17)   |
| 15    | 32077       |     | Bolt, Connecting rod   |
| 16    | 26073       |     | Washer, Connecting rod   |
| 17    | 28264       |     | Nut Assy.  |
| 18    | 34752       |     | Camshaft (MCR) (Helical)   |
| 19    | 33472       |     | Lifter, Valve  |
| 20    | 33471       |     | Rod, Push  |
| 21    | 33505       |     | Intake Valve (Std.)  |
| 21    | 33645       |     | Intake Valve (1/32" OS)  |
| 22    | 33506       |     | Exhaust Valve (Std.)   |
| 22    | 33646       |     | Exhaust Valve (1/32" OS)   |
| 23    | 33507       |     | Spring, Valve  |
| 24    | 33508       |     | Retainer & Cap Set, Keeper valve   |
| 25    | 33509       |     | * "O" Ring (Intake only) (Also Incl. in 251)   |
| 25A   | 34410       |     | * "O" Ring (Exhaust only) (Also Incl. i n 251)   |
| 26    | 33510       |     | Cap, Valve   |
| 27    | 34751       |     | Governor Gear Ass'y. (Helical)   |
| 28    | 650745      |     | Washer, Flat   |
| 29    | 35479       |     | Washer, Flat (Use with 35322 spool)  |
| 29    | 30590A      |     | Washer, Flat   |
| 30    | 31948       |     | Spool, Governor  |
| 31    | 31956B      |     | * Gasket, Cylinder cover   |
| 32    | 32580A      |     | Cylinder Cover Assy.(Incl.2,33,36,37 & 38)   |
| 33    | 31950       |     | * Seal, Oil  |
| 34    | 650451      |     | Screw, 1/4-20 x 1"   |
| 35    | 650588      |     | Screw, 1/4-20 x 2"   |
| 36    | 32425       |     | Rod Assy., Governor  |
| 37    | 32426       |     | Spacer, Governor rod   |
| 38    | 29193       |     | Ring, Retaining  |

| Ref # | Part Number | Qty | Description                                   |
|-------|-------------|-----|---|
| 39    | 650736      |     | Screw, 10-16 x 3/8"                           |
| 40    | 33495       |     | Cover, Cylinder head                          |
| 41    | 34225A      |     | * Gasket, Cylinder head                       |
| 42    | 34753       |     | Head, Cylinder                                |
| 45    | 33657       |     | Spark Plug (L-82C)                            |
| 46    | 650690      |     | Washer, Belleville                            |
| 46A   | 650691      |     | Washer, Flat                                  |
| 47    | 650692      |     | Screw, 5/16-18 x 1-3/4"                       |
| 47A   | 650746      |     | Screw, 5/16-18 x 1-3/8"                       |
| 48    | 730218      |     | Valve Guide Kit (Incl. 49)                    |
| 49    | 792035      |     | Ring, Retaining                               |
| 50    | 33515A      |     | * Gasket, Intake pipe                         |
| 51    | 33475       |     | Pipe, Intake                                  |
| 52    | 650378      |     | Screw, Torx T-30, 5/16-18 x 1-1/8"            |
| 53    | 792028      |     | Screw, 5/16-18 x 7/8"                         |
| 54    | 33476A      |     | * Gasket, Carburetor                          |
| 55    | 33477A      |     | Baffle, Air cleaner                           |
| 56    | 792075      |     | Nut, Lock 5/16-24 (Used in early production)  |
| 57    | 33478       |     | Link, Governor lever-to-throttle lever        |
| 58    | 31963       |     | Lever, Governor                               |
| 59    | 31964       |     | Clamp, Governor lever                         |
| 60    | 650518      |     | Lockwasher, No. 10 E.T.                       |
| 61    | 30312       |     | Screw, 10-32 x 1/2"                           |
| 62    | 650544      |     | Screw, Torx T-25, 10-24 x 7/8"                |
| 63    | 7975        |     | Nut, 10-24                                    |
| 64    | 31965       |     | Plate, Governor spring                        |
| 65    | 31984A      |     | Lever Assy., Control                          |
| 66    | 28558       |     | Washer, Wave                                  |
| 67    | 31966       |     | Bushing, Governor lever                       |
| 68    | 650597      |     | Screw, 10-24 x 5/8"                           |
| 69    | 31967       |     | Spring, Governor                              |
| 70    | 650591      |     | Screw, 10-24 x 2"                             |
| 71    | 33099       |     | Spring  |
| 72    | 32599       |     | "O" Ring (Incl. in 251)                       |
| 73    | 650666      |     | Washer, Lock                                  |
| 74    | 32579       |     | Baffle, Blower housing                        |
| 75    | 650561      |     | Screw, 1/4-20 x 5/8"                          |
| 76    | 650592      |     | Key, Flywheel                                 |
| 77    | 610909      |     | Flywheel                                      |
| 77A   | 730201      |     | Trigger Pin Kit (Use as required)             |
| 78    | 650594      |     | Nut, Flywheel                                 |
| 79    | 610906      |     | Solid State Magneto (Incl. 158 thru 1 61)     |
| 80    | 650661      |     | Screw, 1/4-20 x 3/4"                          |
| 81    | 33479       |     | Extension, Blower housing                     |
| 82    | 30063       |     | Screw, 1/4-20 x 1/2"                          |
| 83    | 650751      |     | Screw, 1/4-20 x 7/16"                         |
| 84    | 34314B      |     | Blower Hsg.(Incl.218A,219)(For elec.s tarter) |
| 85    | 8274        |     | Washer, Lock                                  |
| 85A   | 8274        |     | Washer, Lock                                  |
| 86A   | 650595      |     | Screw, 5/16-24 x 3/8"                         |
| 86    | 650595      |     | Screw, 5/16-24 x 3/8"                         |
| 87    | 650752      |     | Screw, 1/4-20 x 7/16"                         |
| 88    | 35475       |     | Tube, Push rod                                |
| 89    | 33481       |     | * "O" Ring (Also Incl. in 251)                |
| 90    | 34754       |     | Housing, Rocker arm                           |
| 94    | 33484       |     | * "O" Ring (Also Incl. in 251)                |
| 95    | 650168      |     | Washer, Flat                                  |
| 96    | 32610A      |     | Screw, 1/4-20 x 29/32"                        |

| Ref # | Part Number | Qty | Description   |
|-------|-------------|-----|---|
| 97    | 33485       |     | Arm, Rocker   |
| 98    | 33486       |     | Ring, Retaining   |
| 99    | 650755      |     | Screw, 1/4-20 x 3/4"  |
| 100   | 650864      |     | Nut, Hex, 1/4-20  |
| 101   | 650756      |     | Stud, Rocker arm  |
| 102   | 33487       |     | * "O" Ring (Also Incl. in 251)  |
| 103   | 33488       |     | Cover, Rocker arm   |
| 104   | 31958A      |     | * Gasket, Breather (Also Incl. in 251)  |
| 105   | 33489       |     | Body Assy., Breather  |
| 106   | 33490       |     | Tube, Breather  |
| 107   | 30102       |     | * Screw, 10-32 x 5/8" (Also Incl. in 25 1)  |
| 108   | 650738      |     | Screw, 1/4-20 x 5/8"  |
| 111   | 35471       |     | * Gasket, Air cleaner   |
| 112   | 35472       |     | Bracket, Air cleaner  |
| 114   | 650399      |     | Screw, 10-32 x 5/8"   |
| 115   | 32008       |     | Element, Air cleaner  |
| 116A  | 32810       |     | Cover, Air cleaner  |
| 117   | 650513      |     | Nut, Wing   |
| 122   | 650516      |     | Screw, 1/4-20 x 1-1/8"  |
| 123   | 650675      |     | Washer, Flat  |
| 125   | 650590      |     | Nut, Conduit  |
| 126   | 32043B      |     | Muffler   |
| 127   | 32143       |     | Nipple, Exhaust   |
| 146   | 32577       |     | Cover, Cylinder NOTE: Determine the gap between the cover and the machined surface on the cylinder, which can be from .001" up to .007", in which case no shim gaskets will be required. Use of gaskets must be limited to a combined total of .010" thick. Steel spacers must be used as required to eli |
| 147   | 792028      |     | Screw, 5/16-18 x 7/8"   |
| 155   | 31971       |     | * Gasket, Shim (.004/.005 thick) NOTE: Determine the gap between the cover and the machined surface on the cylinder, which can be from .001" up to .007", in which case no shim gaskets will be required. Use of gaskets must be limited to a combined total of .010" thick. Steel spacers must be used a |
| 156   | 31972       |     | * Gasket, Shim (.005/.007 thick) NOTE: Determine the gap between the cover and the machined surface on the cylinder, which can be from .001" up to .007", in which case no shim gaskets will be required. Use of gaskets must be limited to a combined total of .010" thick. Steel spacers must be used a |
| 157   | 32031       |     | * Spacer, Steel (.010 thick) NOTE: Determine the gap between the cover and the machined surface on the cylinder, which can be from .001" up to .007", in which case no shim gaskets will be required. Use of gaskets must be limited to a combined total of .010" thick. Steel spacers must be used as re |
| 158   | 610118      |     | Cover, Spark plug   |
| 159   | 610750      |     | Grommet, Lead wire  |
| 160   | 610408      |     | Nut, 8-32   |
| 161   | 610908      |     | Terminal, Female  |
| 189   | 33993A      |     | Dipstick (Incl. 190)  |
| 190   | 33590       |     | "O" Ring  |
| 191   | 33992A      |     | Tube, Oil filler  |
| 244A  | 550223      |     | Decal, Name   |
| 244B  | 31752       |     | Decal, Air cleaner  |

| Ref # | Part Number | Qty | Description  |
|-------|-------------|-----|--|
| 244   | 34346       |     | Decal, Instruction   |
| 246   | 631687      |     | Valve, Seat & Spring Assy.   |
| 247   | 632197      |     | Carburetor (Incl. 54 & 246) (Refer to Division 5, Section A, page 160 for breakdown) |
| 250   | 33516G      |     | * Gasket Set (Incl. items marked *)  |
| 251   | 35075       |     | "O" Ring Kit (Incl. Nos. items marked +)   |

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| Ref # | Part Number | Qty | Description   |
|-------|-------------|-----|---|
| 39    | 650736      |     | Screw, 10-16 x 3/8"   |
| 82    | 30063       |     | Screw, 1/4-20 x 1/2"  |
| 126A  | 35731       |     | Muffler (Incl. 126B)  |
| 141   |             |     | Gear, Counterbalance weight (Straight teeth) (For replacement see Ref. 132. Order correct kit for your enginemodel number.)   |
| 148   | 610902      |     | Alt.Coil Ass'y. (Incl.162,163,163A) ( 20 amp)   |
| 149   | 650521      |     | Screw, 10-32 x 1-1/8"   |
| 151A  | 610996      |     | Regulator (20 Amp) (Incl. 212 thru 21 8)  |
| 153   | 792028      |     | Screw, 5/16-18 x 7/8"(Use w/32817 str .motor)   |
| 153   | 650781      |     | Screw,5/16-18 x 11/16"(Use w/33835 st r.motor)  |
| 162A  | 610903      |     | Connector, Flat   |
| 163   | 610904      |     | Terminal  |
| 163A  | 610905      |     | Terminal  |
| 209   | 730178      |     | Ech.Adapter Kit (Incl.210 & 211)(As r equired)  |
| 210   | 34102B      |     | Gasket, Exhaust (Use as required)   |
| 211   | 30196       |     | Screw, 5/16-18 x 3/4" (Use as require d)  |
| 212   | 610990      |     | Connector, Male   |
| 213   | 610921      |     | Connector   |
| 214   | 610922      |     | Terminal  |
| 215   | 610989      |     | Terminal  |
| 216   | 610992      |     | Terminal, Female  |
| 217   | 610991      |     | Terminal, Female  |
| 218   | 30063       |     | Screw, 1/4-20 x 1/2"  |
| 225   | 730198      |     | Electric Starter Switch Kit (Incl. 22 6-237)  |
| 226   | 34614       |     | Bracket, Starter button   |
| 227   | 34616       |     | Switch, Starter   |
| 228   | 34615       |     | Switch, Toggle  |
| 229   | 792026      |     | Screw, 1/4-20 x 7/8"  |
| 230   | 27513       |     | Lockwasher, Split   |
| 231   | 650864      |     | Nut, Hex  |
| 232   | 34618       |     | Wire Assy., Starter   |
| 233   | 34619       |     | Wire Assy., Guard   |
| 234   | 34620       |     | Wire & Fuse Assy.   |
| 235   | 8274        |     | Lockwasher, Split (Incl. in 251)  |
| 236   | 650586      |     | Nut, Jam  |
| 237   | 34617       |     | Adapter Cord Assy.  |
| 238   | 730212      |     | Adapter Plate Kit (Optional) NOTE: If you are having mounting problems in using a HH100 thruOH180 in place of a large frame competitivebrand, we would like to call your attention to 730212 adapter plate kit. The kit converts the bottom mounting system found on HH100 thru OH180 to a top mounting sys |
| 249   | 33835       |     | Electric Starter Motor (12-Volt) (Refer to Division 5, Section D for breakdown)   |





| Ref # | Part Number | Qty | Description   |
|-------|-------------|-----|---|
|       | 114 650399  |     | Screw, 10-32 x 5/8"   |
|       | 115 32008   |     | Element, Air cleaner  |
|       | 117 650513  |     | Nut, Wing   |
|       | 120A 32049  |     | Screen, Starter hub   |
|       | 121 32048   |     | Hub, Starter  |
|       | 122 650516  |     | Screw, 1/4-20 x 1-1/8"  |
|       | 123 650675  |     | Washer, Flat  |
|       | 143 29774   |     | Fuel Line (Braided 8.25")(21 cm)(As required)                                 |
|       | 143 30705   |     | Fuel Line (Braided 16")(41 cm)(As required)                                   |
|       | 143 30962   |     | Fuel Line (Braided 32")(81 cm)(As required)                                   |
|       | 144 33981   |     | Pump, Impulse fuel  |
|       | 145 33010   |     | Repair Kit, Impulse fuel pump   |
|       | 171C 29683  |     | Valve, Fuel strainer & shut-off   |
|       | 171B 32958  |     | Fitting, Fuel pump  |
|       | 177 33979   |     | Fuel Tank (Incl. 178)   |
|       | 178 410144B |     | Fuel Cap (White Plastic)(Std)(As required)                                    |
|       | 178 34210   |     | Fuel Cap (Red Plastic) (Spurt resistant, High profile) (Use as required)      |
|       | 180 33980   |     | Strap, Fuel tank  |
|       | 181 33978   |     | Bracket, Fuel tank  |
|       | 182 650787  |     | Washer, Belleville  |
|       | 183 650786  |     | Screw, 1/4-20 x 5/8"  |
|       | 184 650785  |     | Screw, 5/16-18 x 5/8"   |
|       | 185 650488  |     | Screw, 1/4-20 x 1-1/4"  |
|       | 186 650456  |     | Nut, Lock   |
|       | 187 650598  |     | Screw, 1/4-28 x 3/4"  |
|       | 188 8345    |     | Washer  |
|       | 196 26460   |     | Clamp, Fuel line (Use as required)  |
|       | 220 650561  |     | Screw, 1/4-20 x 5/8"  |
|       | 221 34403   |     | Speed Control Assy.   |
|       | 222 34404   |     | Bracket, Control  |
|       | 245 730134  |     | Rewind Starter Kit (Incl.120A, 121, 122, 187, 188 & 248)<br>(Use as required) |
|       | 248 590405A |     | Rewind Starter (Refer to Division 5, Section C, page 24 for breakdown)        |