

Ref #	Part Number	Qty	Description
1	33707A		Cylinder (Incl. 2, 4 & 33) (3-1/2" Bore)
2	31927		Pipe Plug, 3/8-18 sq. head (Use as required)
2	28483		Pipe Plug (3/8-18 hex countersunk) (As req.)
2			Pipe Plug (3/4-14 sq.hd.)(As req.)(Buy local)
2	9556		Pipe Plug (1/8-27 sq. hd.) (Use as required)
2	28534		Pipe Plug(1/8-27 hex c/sunk headless) (As req)
4	27652		Pin, Dowel
5	33423B		Crankshaft (Incl. 6 thru 9) NOTE: When using this crankshaft to repair older units equipped with straight cut cam and governor gears, it will be necessary to order 34751 helical governor gear assembly and 34752 helical camshaft in order to complete the repair.
6	29783		Pin, Crankshaft gear
7	31931		Gear, Crankshaft (Straight)
8	31932		Bearing, Tapered roller
9	31928		Cup, Bearing
10	34222		Bearing, Needle
10A	34223		Bearing & Seal Assy., Needle
11A	32238B		Piston & Pin Ass'y. (Std.)(3-1/2")(Incl. 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, 16 & 17)
14	34383		Connecting Rod Assy.(.010" US)(Incl. 15, 16, 17)
14	34384		Connecting Rod Assy.(.020" US)(Incl. 15, 16, 17)
15	32077		Bolt, Connecting rod
16	26073		Washer, Connecting rod
17	28264		Nut Assy.
18	33470		Camshaft (MCR) (Straight)
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
25A	34410		* "O" Ring (Exhaust only) (Also Incl. in 251)
25	33509		* "O" Ring (Intake only) (Also Incl. in 251)
26	33510		Cap, Valve
27	33473		Governor Gear & Shaft Ass'y. (Straight)
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	34095		Cylinder Cover Ass'y. (Incl. 2, 10, 10A, 33, 36, 37, 38, 93, 194 & 195)
33	31950		* Seal, Oil
34	650451		Screw, 1/4-20 x 1"
35	650588		Screw, 1/4-20 x 2"

Ref #	Part Number	Qty	Description
	36 32425		Rod Assy., Governor
	37 32426		Spacer, Governor rod
	38 29193		Ring, Retaining
	39 650736		Screw, 10-16 x 3/8"
	40 33495		Cover, Cylinder head
	41 34225A		* Gasket, Cylinder head
	42 33465		Head, Cylinder
	43 31980		Pulley, Starter
	44 32046		Rope Assy., Starter
	45 35552		Spark Plug (RL-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
	57A 33983		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 33982		Spring, Governor
	69A 33982		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 610967		Flywheel (w/ring gear)
	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
	83 650751		Screw, 1/4-20 x 7/16"
	84 33775A		Blower Hsg.(Incl.218A,219)(For elec.s tarter)
	85 8274		Washer, Lock
	86 650595		Screw, 5/16-24 x 3/8"
	86A 650624		Screw, 5/16-24 x 9/16"
	87 650752		Screw, 1/4-20 x 7/16"
	88 35475		Tube, Push rod

Ref #	Part Number	Qty	Description
89	33481		* "O" Ring (Also Incl. in 251)
90	34754		Housing, Rocker arm
91	33013		Cover, Starter bubble
92	650701		Screw, 8-18 x 7/16"
93	8345		Washer, Flat
94	33484		* "O" Ring (Also Incl. in 251)
95	650168		Washer, Flat
96	32610A		Screw, 1/4-20 x 29/32"
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
119	31992		Spacer, Screen
120	33776		Screen, Pulley
122	650680		Screw, 1/4-20 x 1-1/2"
123	27070		Washer, Lock
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"
150B	650399		Screw, 10-32 x 5/8"
152A	610983		Stator Plate Assy. (w/exciter coil)
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

Ref #	Part Number	Qty	Description
	158 610118		Cover, Spark plug
	159 610750		Grommet, Lead wire
	160 610408		Nut, 8-32
	161 610908		Terminal, Female
	164 33356		Terminal
	165 650760		Screw, 8-32 x 3/8"
	166 28545		Grommet, Plastic
	167A 26073		Washer, Flat
	167 650890		Washer, Lock
	168 32039		Switch, Stop
	189 33993A		Dipstick (Incl. 190)
	190 33590		"O" Ring
	191 33992A		Tube, Oil filler
	193 29443		Clip, Wire
	244A 550223		Decal, Name
	244B 31752		Decal, Air cleaner
	244 34346		Decal, Instruction
	246 631687		Valve, Seat & Spring Assy.
	247 631680		Carburetor (Incl. 54 & 246) (Refer to Division 5, Section A, page 124 for breakdown) (Refer to Division 5, Section D for breakdown)
	250 33516G		* Gasket Set (Incl. items marked *)
	251 35075		"O" Ring Kit (Incl. Nos. items marked +)

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

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Ref #	Part Number	Qty	Description
39	650736		Screw, 10-16 x 3/8"
126A	35731		Muffler (Incl. 126B)
141			Gear, Counterbalance weight (Straight teeth) (For replacement see Ref. 132. Order correct kit for your engine model number.)
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 str. motor)
209	730178		Ech. Adapter Kit (Incl. 210 & 211) (As required)
210	34102B		Gasket, Exhaust (Use as required)
211	30196		Screw, 5/16-18 x 3/4" (Use as required)
238	730212		Adapter Plate Kit (Optional) NOTE: If you are having mounting problems in using a HH100 thru OH180 in place of a large frame competitive brand, 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

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

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Ref #	Part Number	Qty	Description
114	650399		Screw, 10-32 x 5/8"
115	32008		Element, Air cleaner
117	650513		Nut, Wing
119	31992		Spacer, Screen
122	650680		Screw, 1/4-20 x 1-1/2"
123	27070		Washer, Lock
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
196	26460		Clamp, Fuel line (Use as required)
245	730134		Rewind Starter Kit (Incl.120A, 121, 122, 187, 188 & 248) (Use as required)