

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 33390B	Crankshaft (Incl. 6 thru 9) NOTE: When using this
3 30000B	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 31931	Gear, Crankshaft (Straight)
8 31932	Bearing, Tapered roller
9 31928	Cup, Bearing
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)
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)
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 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. i n 251)
25 33509	* "O" Ring (Intake only) (Also Incl. in 251)
26 33510	Cap, Valve
27 33473	Governor Gear & Shaft Ass'y. (Straigh t)
28 650745	Washer, Flat
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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
	5/ 5

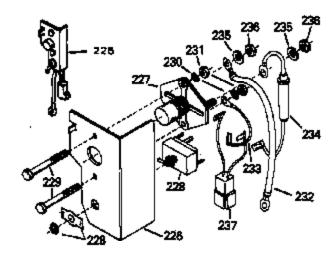
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90 34754 Housing, Rocker arm			
94 33484 * "O" Ring (Also Incl. in 251)			
	94	33 404	O King (Also Inci. in 251)

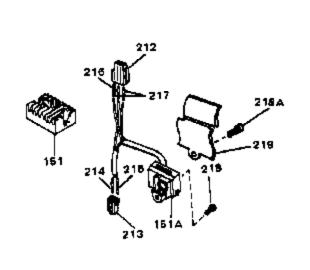
Ref # Part Number	Qty Description
95 650168	Washer, Flat
96 32610A	Screw, 1/4-20 x 29/32"
97 33485	Arm, Rocker
98 33486	Ring, Retaining
99 650755	Screw, 1/4-20 x 3/4"
100 650864	Nut, Hex, 1/4-20
101 650756	Stud, Rocker arm
102 33487	* "O" Ring (Also Incl. in 251)
103 33488	Cover, Rocker arm
104 31958A	* 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
125 650590	Nut, Conduit
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 spacersmust be used as required to eli
147 702020	Sorou 5/16 10 v 7/0"
147 792028 155 24074	Screw, 5/16-18 x 7/8" * Cooket, Shim (004/ 005 thick) NOTE: Determine the gap
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
	spacersmust be used a
	spacersmust 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
	spacersmust be used a
157 32031	* Spacer, Steel (.010 thick) NOTE: Determine the gap
137 32031	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
	spacersmust be used as re
158 610118	Cover, Spark plug
159 610750	Grommet, Lead wire
160 610408	Nut, 8-32
161 610908	Terminal, Female
169A 27793	Clip, Conduit
170 28942	Screw, 10-32 x 3/8"

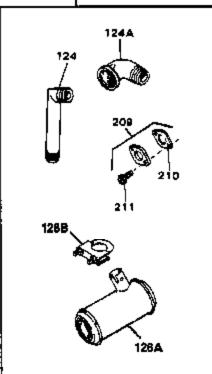
Ref #	Part Number C	ty Description
189	33984A	Dipstick (Incl. 190)
190	33590	"O" Ring
191	33893A	Tube, Oil filler
244B	31752	Decal, Air cleaner
244	34346	Decal, Instruction
244A	550223	Decal, Name
244A	32676	Decal, Solid state
246	631687	Valve, Seat & Spring Assy.
247	631754	Carburetor (Incl. 54 & 246) (Refer to Division 5, Section A,
		page 124 for breakdown)
250	33516G	* Gasket Set (Incl. items marked *)
	35075	"O" Ring Kit (Incl. Nos. items marked +)
201	555.5	o i mig i m (mon recentario i riamo i)

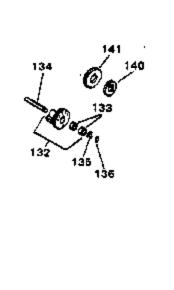
ILLUSTRATION SHOWS TYPICAL PARTS ONLY. ORDER BY PART NUMBER. PARTS NOT LISTED ARE SUPPLIED BY CEM.

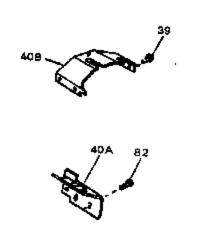
VIEW 2 of 3

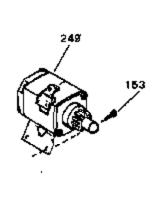


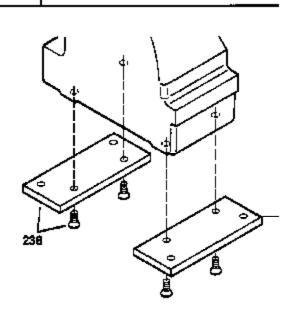






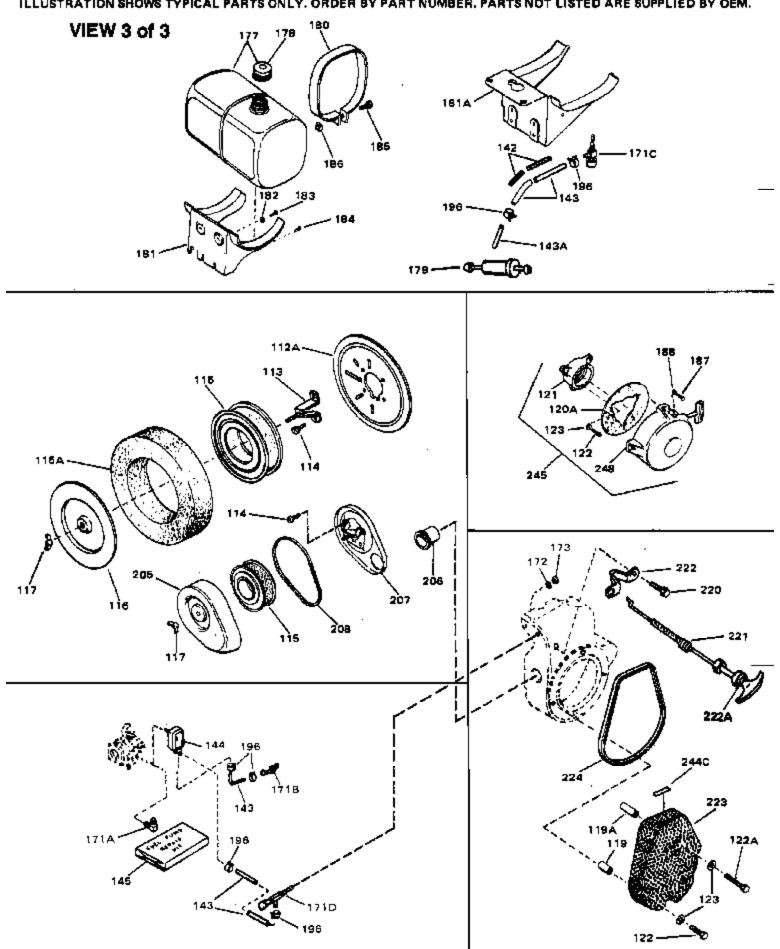






Ref #	Part Number	Qty	Description
82	650687 30063 35731		Screw, 10-32 x 5/16" Screw, 1/4-20 x 1/2" Muffler (Incl. 126B) Gear, Counterbalance weight (Straight teeth) (For replacement see Ref. 132. Order correct kit for your enginemodel number.)
149 151 153 153 162A 163A 163 209 210 211	610902 650521 610907A 792028 650781 610903 610905 610904 730178 34102B 30196 730212		Alt.Coil Ass'y. (Incl.162,163,163A) (20 amp) Screw, 10-32 x 1-1/8" Regulator (20 Amp)(Incl.151A, 154A & 218) Screw, 5/16-18 x 7/8"(Use w/32817 str .motor) Screw,5/16-18 x 11/16"(Use w/33835 st r.motor) Connector, Flat Terminal Terminal Ech.Adapter Kit (Incl.210 & 211)(As r equired) Gasket, Exhaust (Use as required) Screw, 5/16-18 x 3/4" (Use as require d) Adapter Plate Kit (Optional) NOTE: If you are having mounting problems in using a HH100 thru0H180 inplace 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 0H180 to a top mounting sys
249	33835		Electric Starter Motor (12-Volt) (Refer to Division 5, Section D for breakdown)

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



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 r equired)
143	30705		Fuel Line (Braided 16")(41 cm)(As req uired)
143	30962		Fuel Line (Braided 32")(81 cm)(As req uired)
144	32959		Pump, Impulse fuel
145	33010		Repair Kit, Impulse fuel pump
171B	32958		Fitting, Fuel pump
178	410144B		Fuel Cap (White Plastic)(Std)(As requ ired)
178	34210		Fuel Cap (Red Plastic) (Spurt resistant, High profile) (Use as required)
	26460 730134		Clamp, Fuel line (Use as required) Rewind Starter Kit (Incl.120A, 121, 122, 187, 188 & 248) (Use as required)