

Ref # Part Nu		Description Description
1 33762E	3	Cylinder (Incl. 2, 4 & 33) (3-5/16" B ore)
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 34445A	Δ	Crankshaft (Incl. 6 thru 9) NOTE: When using this
0 01110/	`	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
11 34508		Piston, Pin & Ring Set (Std.) (3-5/16 " Bore)
11 34509		Piston, Pin & Ring Set (.010" OS)
11 34510	_	Piston, Pin & Ring Set (.020" OS)
11A 32001C		Piston & Pin Ass'y. (Std.)(3-5/16")(I ncl.12)
11A 32002E		Piston & Pin Ass'y. (.010" OS) (Incl. 12)
11A 32003E	3	Piston & Pin Ass'y. (.020" OS) (Incl. 12)
12 31919		Ring, Piston pin retaining
13 32004		Ring Set (Std.) (3-5/16" Bore)
13 32005		Ring Set (.010" OS)
13 32006		Ring Set (.020" OS)
14 33093A	Δ	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)(Ind.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	5	Washer, Flat
	,	•
29 35479	<b>A</b>	Washer, Flat (Use with 35322 spool)
29 30590 <i>A</i>	4	Washer, Flat
30 31948	_	Spool, Governor
31 31956E		* Gasket, Cylinder cover
32 32580 <i>A</i>	P	Cylinder Cover Assy.(Incl.2,33,36,37 & 38)
33 31950		* Seal, Oil
34 650451	1	Screw, 1/4-20 x 1"
35 650588	3	Screw, 1/4-20 x 2"
36 32425		Rod Assy., Governor
37 32426		Spacer, Governor rod
38 29193		Ring, Retaining
00 20100		· ······

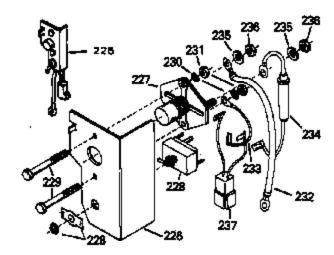
Ref #	Part Number Qt	y Description
39	650128	Screw, 10-24 x 1/2"
41	34225A	* Gasket, Cylinder head
42	34775	Head, Cylinder
	35552	Spark Plug (RL-82C)
	650691	Washer, Flat
	650690	Washer, Belleville
	650746	Screw, 5/16-18 x 1-3/8"
	650692	Screw, 5/16-18 x 1-3/4"
	730218	Valve Guide Kit (Incl. 49)
	792035	Ring, Retaining
	33515A	* Gasket, Intake pipe
	33475	Pipe, Intake
	650378	Screw, Torx T-30, 5/16-18 x 1-1/8"
	792028	Screw, 5/16-18 x 7/8"
	33476A	* Gasket, Carburetor
	34285	Baffle, Air extension
	792075	Nut, Lock 5/16-24 (Used in early prod uction)
	33478	Link, Governor lever-to-throttle leve r
	31963	Lever, Governor
	31964	Clamp, Governor lever
	650518	Lockwasher, No. 10 E.T.
	30312	Screw, 10-32 x 1/2"
	650544	
		Screw, Torx T-25, 10-24 x 7/8"
	7975	Nut, 10-24
	31965	Plate, Governor spring
	31984A	Lever Assy., Control
	28558	Washer, Wave
	31966	Bushing, Governor lever
	650597	Screw, 10-24 x 5/8"
	31967	Spring, Governor
	650591	Screw, 10-24 x 2"
	33099	Spring
	32599	"O" Ring (Incl. in 251)
	650615	Washer, Flat
	32579	Baffle, Blower housing
	650561	Screw, 1/4-20 x 5/8"
	650592	Key, Flywheel
	730201	Trigger Pin Kit (Use as required)
	610909	Flywheel
	650616	Nut, Flywheel
	610906	Solid State Magneto (Incl. 158 thru 1 61)
	650661	Screw, 1/4-20 x 3/4"
	30063	Screw, 1/4-20 x 1/2"
	650751	Screw, 1/4-20 x 7/16"
	34195B	Blower Hsg.(Incl.218,219)(For elec.st arter)
	8274	Washer, Lock
	8274	Washer, Lock
	650595	Screw, 5/16-24 x 3/8"
	650595	Screw, 5/16-24 x 3/8"
	650752	Screw, 1/4-20 x 7/16"
	35475	Tube, Push rod
	33481	* "O" Ring (Also Incl. in 251)
	34754	Housing, Rocker arm
	33484	* "O" Ring (Also Incl. in 251)
	650168	Washer, Flat
	32610A	Screw, 1/4-20 x 29/32"
	33485	Arm, Rocker
98	33486	Ring, Retaining

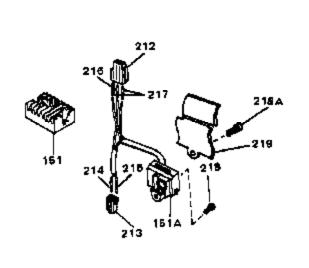
Ref #	Part Number	Qty	Description
	650755	,	Screw, 1/4-20 x 3/4"
100	650864		Nut, Hex, 1/4-20
101	650756		Stud, Rocker arm
102	33487		* "O" Ring (Also Incl. in 251)
103	33488		Cover, Rocker arm
104	31958A		* Gasket, Breather (Also Incl. in 251)
105	33489		Body Assy., Breather
106	33490		Tube, Breather
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
114	650399		Screw, 10-32 x 5/8"
	32008		Element, Air cleaner
117	650513		Nut, Wing
	650675		Washer, Flat
	32426		Spacer, Screen
	32953		Screen
	650670		Screw, 1/4-20 x 3/4"
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	792028		Screw, 5/16-18 x 7/8"
	31971		* Gasket, Shim (.004/.005 thick) NOTE: Determine the gap
.00			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
156	31972		* Gasket, Shim (.005/.007 thick) NOTE: Determine the gap
150	31972		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
4.57	00004		•
15/	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
			spacersmust be used as re
158	610118		Cover, Spark plug
	610750		Grommet, Lead wire
	610408		Nut, 8-32
	610908		Terminal, Female
	32252		Shaft, Flywheel extension
	27513		Lockwasher, Split
	792051		Screw, 1/4-20 x 1-3/4"
	33068		Dipstick (Incl. 190)
	29985		"O" Ring
	32352		Tube, Oil filler
	29673		* Gasket, Oil filler tube
	34346		Decal, Instruction
	31752		Decal, Air cleaner
244A	34768		Decal, Name

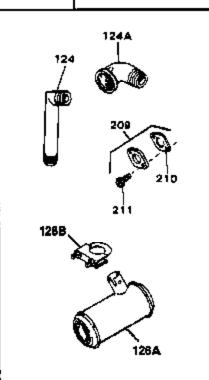
Ref # Part Number	Qty Description
246 631687	Valve, Seat & Spring Assy.
247 632190	Carburetor (Incl. 54 & 246) (Refer to Division 5, Section A, page 160 for breakdown)
250 33516G 251 35075	<ul><li>* Gasket Set (Incl. items marked *)</li><li>"O" Ring Kit (Incl. Nos. items marked +)</li></ul>

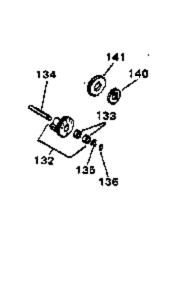
## ILLUSTRATION SHOWS TYPICAL PARTS ONLY. ORDER BY PART NUMBER. PARTS NOT LISTED ARE SUPPLIED BY CEM.

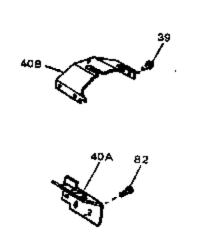
## VIEW 2 of 3

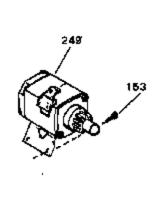


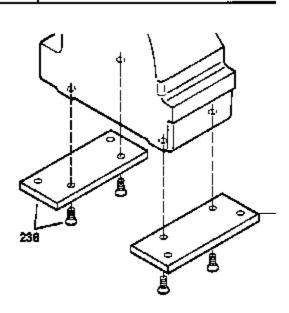






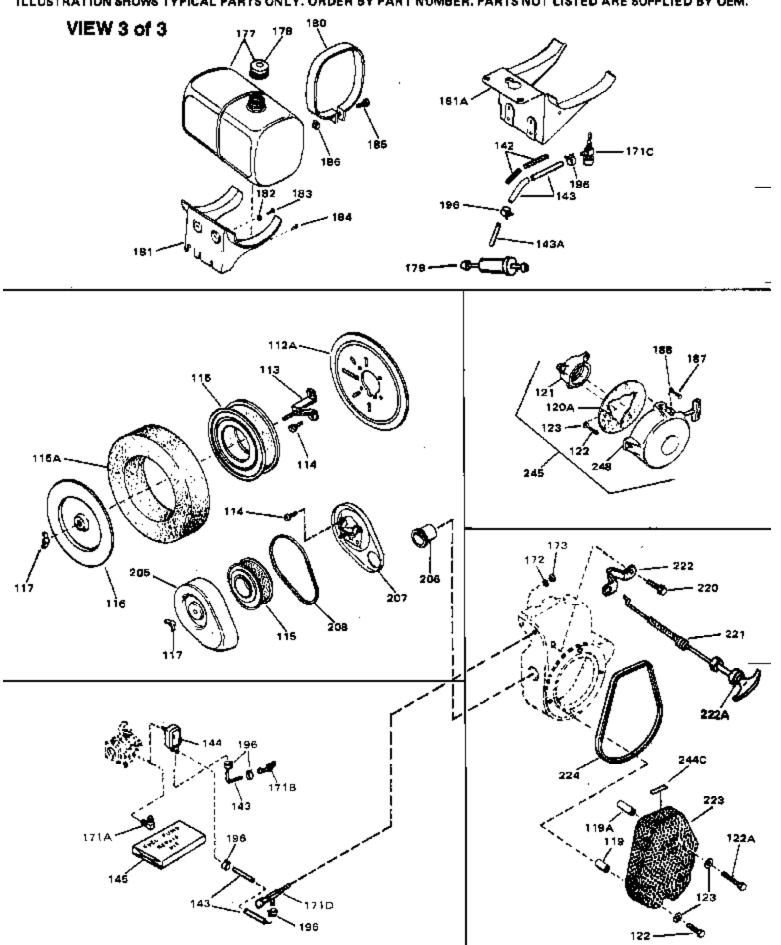






Ref #	Part Number	Qty	Description
39	650128		Screw, 10-24 x 1/2"
40B	34284		Cover, Cylinder head
40A	34283		Cover, Cylinder head
82	30063		Screw, 1/4-20 x 1/2"
126A	35731		Muffler (Incl. 126B)
141			Gear, Counterbalance weight (Straight teeth) (For
			replacement see Ref. 132. Order correct kit for your
			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
163A	610905		Terminal
163	610904		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)
	610990		Connector, Male
	610921		Connector
	610922		Terminal
	610989		Terminal
	610992		Terminal, Female
	610991		Terminal, Female
	30063		Screw, 1/4-20 x 1/2"
238	730212		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	32426		Spacer, Screen
122	650670		Screw, 1/4-20 x 3/4"
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	35018		Pump, Impulse fuel
145	33010		Repair Kit, Impulse fuel pump
171A	28566		Fitting, Fuel line
178	410144B		Fuel Cap (White Plastic)(Std)(As requ ired)
178	34210		Fuel Cap (Red Plastic) (Spurt resistant, High profile) (Use as required)
196	26460		Clamp, Fuel line (Use as required)
205	34193		Cover, Air cleaner
206	34194A		Tube, Air cleaner
207	35473		Bracket, Air cleaner
208	34197		Gasket, Air cleaner
245	730134		Rewind Starter Kit (Incl.120A, 121, 122, 187, 188 & 248) (Use as required)