

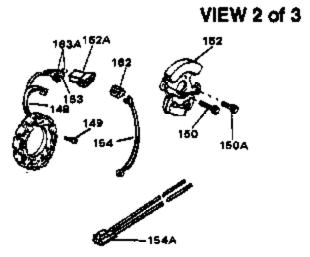
Ref # Part Number	Qty Description
1 33707A	Cylinder (Incl. 2, 4 & 33) (3-1/2" Bo re)
2 31927	Pipe Plug, 3/8-18 sq. head (Use as re quired)
2 28483	Pipe Plug (3/8-18 hex countersunk) (A s req.)
2	Pipe Plug (3/4-14 sq.hd.)(As req.)(Bu y local)
2 9556	Pipe Plug (1/8-27 sq. hd.) (Use as re quired)
2 28534	Pipe Plug(1/8-27 hex c/sunk headless) (As req)
4 27652	Pin, Dowel
5 33425B	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 31931	Gear, Crankshaft (Straight)
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 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
29 35479	Washer, Flat (Use with 35322 spool)
29 30590A	Washer, Flat
30 31948	Spool, Governor
31 31956B	* Gasket, Cylinder cover
32 32685	Cyl.Cover Assy.(Incl.2,33,36,37,38,19 4 & 195)
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

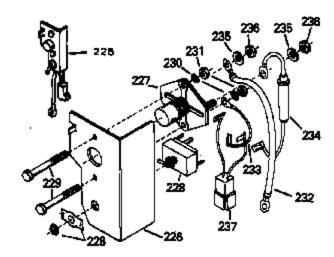
Ref #	Part Number Qty	Description
	650736	Screw, 10-16 x 3/8"
	33495	Cover, Cylinder head
	34225A	* Gasket, Cylinder head
	33465	
		Head, Cylinder
	35552	Spark Plug (RL-82C)
	650690	Washer, Belleville
	650691	Washer, Flat
	650692	Screw, 5/16-18 x 1-3/4"
	650746	Screw, 5/16-18 x 1-3/8"
	730218	Valve Guide 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
	33477A	Baffle, Air cleaner
	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"
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"
	650592	Key, Flywheel
	730201	Trigger Pin Kit (Use as required)
	610909	Flywheel
	650594	Nut, Flywheel
	610906	Solid State Magneto (Incl. 158 thru 1 61)
	650661	Screw, 1/4-20 x 3/4"
	33479	Extension, Blower housing
	30063	Screw, 1/4-20 x 1/2"
		•
	650751	Screw, 1/4-20 x 7/16"
	33775A	Blower Hsg.(Incl.218A,219)(For elec.s tarter)
	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
89	33481	* "O" Ring (Also Incl. in 251)
90	34754	Housing, Rocker arm
94	33484	* "O" Ring (Also Incl. in 251)
	650168	Washer, Flat
	32610A	Screw, 1/4-20 x 29/32"

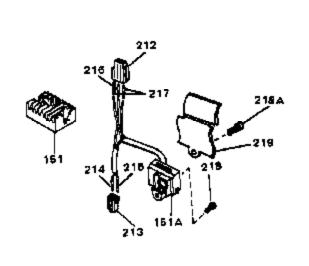
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	Part Number	Qty	Description
	33485		Arm, Rocker
	33486		Ring, Retaining
	650755		Screw, 1/4-20 x 3/4"
	650864		Nut, Hex, 1/4-20
101	650756		Stud, Rocker arm
102	33487		* "O" Ring (Also Incl. in 251)
103	33488		Cover, Rocker arm
104	31958A		* Gasket, Breather (Also Incl. in 251)
105	33489		Body Assy., Breather
	33490		Tube, Breather
	30102		* Screw, 10-32 x 5/8" (Also Incl. in 25 1)
	650738		Screw, 1/4-20 x 5/8"
	35471		* Gasket, Air cleaner
	35472		Bracket, Air cleaner
	650399		Screw, 10-32 x 5/8"
	32008		Element, Air cleaner
	32810		•
	650513		Cover, Air cleaner
			Nut, Wing
	32426		Spacer, Screen
	33776		Screen, Pulley
	650670		Screw, 1/4-20 x 3/4"
	27070		Washer, Lock
	650675		Washer, Flat
	650590		Nut, Conduit
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
1.17	792028		Screw, 5/16-18 x 7/8"
	31971		* Gasket, Shim (.004/.005 thick) NOTE: Determine the gap
133	319/1		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
			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
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
			spacersmust be used as re
450	640440		
	610118		Cover, Spark plug
	610750		Grommet, Lead wire
	610408		Nut, 8-32
	610908		Terminal, Female
	27793		Clip, Conduit
	28942		Screw, 10-32 x 3/8"
	33764		Dipstick (Incl. 190)
190	29985		"O" Ring

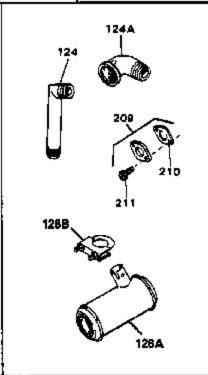
Ref #	Part Number 0	ty Description
191	33468	Tube Assy., Oil filler
192	29673	* Gasket, Oil filler tube
244A	550223	Decal, Name
244	34346	Decal, Instruction
246	631687	Valve, Seat & Spring Assy.
247	631680	Carburetor (Incl. 54 & 246) (Refer to Division 5, Section A, page 124 for breakdown)
	33516G 35075	* Gasket Set (Incl. items marked *) "O" Ring Kit (Incl. Nos. items marked +)

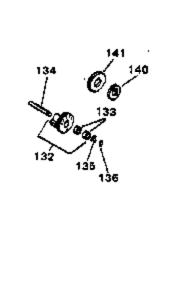
ILLUSTRATION SHOWS TYPICAL PARTS ONLY. ORDER BY PART NUMBER. PARTS NOT LISTED ARE SUPPLIED BY CEM.

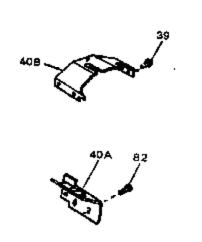


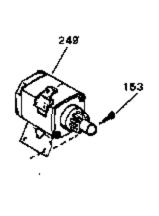


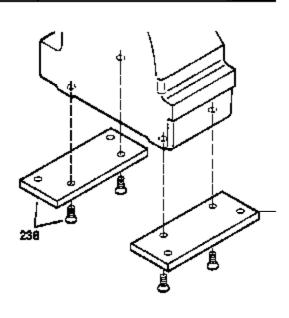






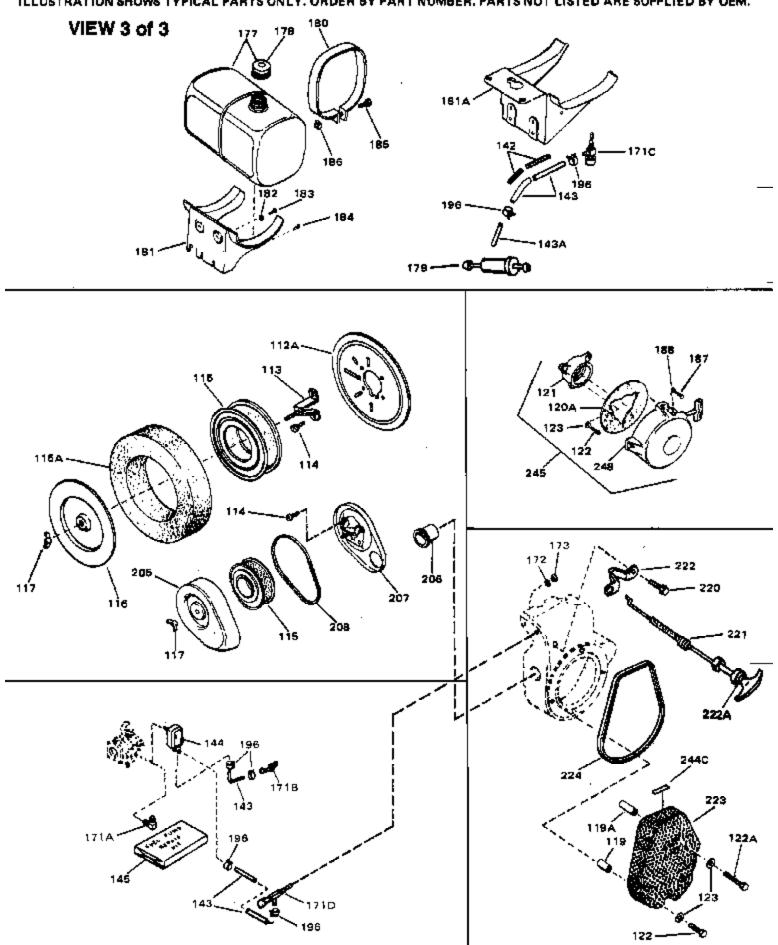






Rof #	Part Number	Otv	Description
	650736	Qty	Screw, 10-16 x 3/8"
	30063		Screw, 1/4-20 x 1/2"
	35731		Muffler (Incl. 126B)
141			Gear, Counterbalance weight (Straight teeth) (For
			replacement see Ref. 132. Order correct kit for your
			enginemodel number.)
4.40	040000		,
	610902 650531		Alt.Coil Ass'y. (Incl.162,163,163A) (20 amp)
	650521 610996		Screw, 10-32 x 1-1/8" Pagulator (20 App.) (Incl. 242 thru 24.8)
	792028		Regulator (20 Amp) (Incl. 212 thru 21 8)
	650781		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)
	610903		Connector, Flat
	610904		Terminal
	610905		Terminal
	730178		Ech.Adapter Kit (Incl.210 & 211)(As r equired)
	34102B		Gasket, Exhaust (Use as required)
	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
210			D for breakdown)
			2.0. 2.00.00

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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	32426	Spacer, Screen
122	650670	Screw, 1/4-20 x 3/4"
123	27070	Washer, Lock
123	650675	Washer, Flat
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	Clamp, Fuel line (Use as required)
245	730134	Rewind Starter Kit (Incl.120A, 121, 122, 187, 188 & 248) (Use as required)