

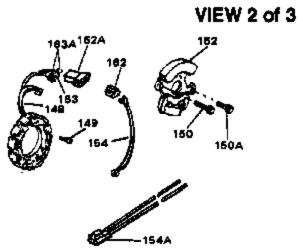
	ty Description
1 33762B	Cylinder (Incl. 2, 4 & 33) (3-5/16" B ore)
2 31927	Pipe Plug, 3/8-18 sq. head (Use as re quired)
2 28483	Pipe Plug (3/8-18 hex countersunk) (A s req.)
2	Pipe Plug (3/4-14 sq.hd.)(As req.)(Bu y local)
2 9556	Pipe Plug (1/8-27 sq. hd.) (Use as re quired)
2 28534	Pipe Plug(1/8-27 hex c/sunk headless) (As req)
4 27652	Pin, Dowel
5 33391B	Crankshaft (Incl. 6 thru 9) NOTE: When using this
0 000010	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 32001C	Piston & Pin Ass'y. (Std.)(3-5/16")(I ncl.12)
11A 32002B	Piston & Pin Ass'y. (.010" OS) (Incl. 12)
11A 32003B	Piston & Pin Ass'y. (.020" OS) (Incl. 12)
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)
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	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
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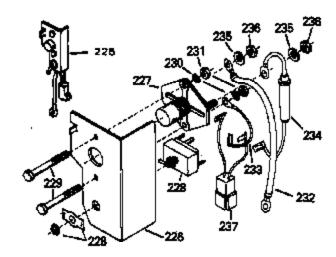
Ref #	Part Number Qt	/ Description
39	650687	Screw, 10-32 x 5/16"
	33495	Cover, Cylinder head
	34225A	* Gasket, Cylinder head
	33763	Head, Cylinder
	33657	Spark Plug (L-82C)
	650691	Washer, Flat
	650690	Washer, Belleville
	650692	Screw, 5/16-18 x 1-3/4"
	650746	Screw, 5/16-18 x 1-3/4"
		·
	730218	Valve 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
55	33477A	Baffle, Air cleaner
56	792075	Nut, Lock 5/16-24 (Used in early prod uction)
57	33478	Link, Governor lever-to-throttle leve r
58	31963	Lever, Governor
59	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
	33054	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)
	650666	Washer, Lock
74	32579	Baffle, Blower housing
75	650561	Screw, 1/4-20 x 5/8"
76	650592	Key, Flywheel
77A	730201	Trigger Pin Kit (Use as required)
77	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
	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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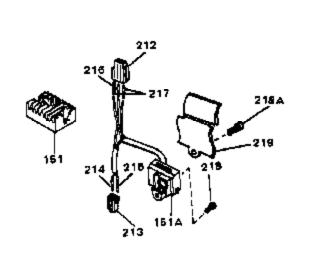
Ref #	Part Number	Qtv	Description
	33485	٠.,	Arm, Rocker
	33486		Ring, Retaining
	650755		Screw, 1/4-20 x 3/4"
	650864		Nut, Hex, 1/4-20
	650756		Stud, Rocker arm
	33487		* "O" Ring (Also Incl. in 251)
			• ,
	33488		Cover, Rocker arm  * Coolect Proofbor (Alon Incl. in 351)
	31958A		* Gasket, Breather (Also Incl. in 251)
	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
116A	32810		Cover, Air cleaner
117	650513		Nut, Wing
118	650675		Washer, Flat
119	32426		Spacer, Screen
120	33776		Screen, Pulley
122	650670		Screw, 1/4-20 x 3/4"
123	27070		Washer, Lock
125	650590		Nut, Conduit
	32808		Nipple, Exhaust pipe
	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
	<b></b>		·
	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
			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
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
_	040440		•
	610118		Cover, Spark plug
	610750		Grommet, Lead wire
	610408		Nut, 8-32
	610908		Terminal, Female
	33984A		Dipstick (Incl. 190)
190	33590		"O" Ring
191	33893A		Tube, Oil filler

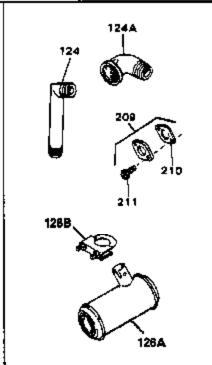
Ref #	Part Number	Qty	Description
244	34346		Decal, Instruction
244A	550223		Decal, Name
244A	32676		Decal, Solid state
244B	31752		Decal, Air cleaner
246	631687		Valve, Seat & Spring Assy.
247	631718		Carburetor (Incl. 54 & 246) (Refer to Division 5, Section A, page 124 for breakdown)
	33516G 35075		* Gasket Set (Incl. items marked *) "O" Ring Kit (Incl. Nos. items marked +)

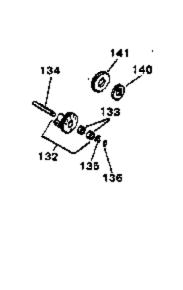
## ILLUSTRATION SHOWS TYPICAL PARTS ONLY. ORDER BY PART NUMBER. PARTS NOT LISTED ARE SUPPLIED BY CEM.

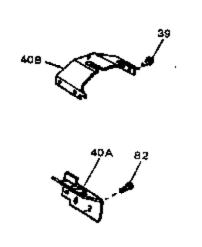


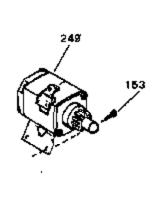


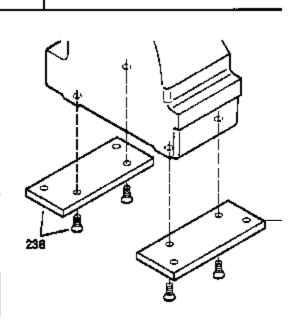






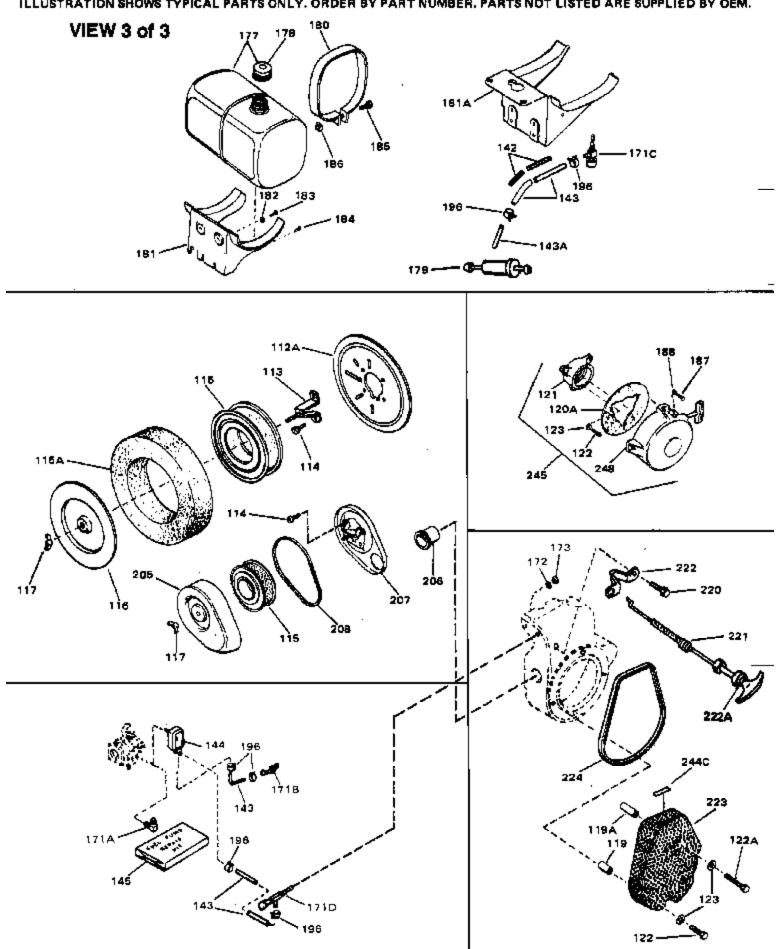






Ref #	Part Number	Qty	Description
82	650687 30063 35731		Screw, 10-32 x 5/16" Screw, 1/4-20 x 1/2" Muffler (Incl. 126B) Gear, Counterbalance weight (Straight teeth) (For replacement see Ref. 132. Order correct kit for your enginemodel number.)
149 151 153 153 162A 163A 163 209 210 211	610902 650521 610907A 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	32426	Spacer, Screen
122	650670	Screw, 1/4-20 x 3/4"
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)
196	26460	Clamp, Fuel line (Use as required)
	730134	Rewind Starter Kit (Incl.120A, 121, 122, 187, 188 & 248)
_		(Use as required)