

Ref #	Part Number	Qtv	Description
2 2 2 2 2 4	33707A 31927 28483 9556 28534 27652 33497C		Cylinder (Incl. 2, 4 & 33) (3-1/2" Bo re) Pipe Plug, 3/8-18 sq. head (Use as re quired) Pipe Plug (3/8-18 hex countersunk) (A s req.) Pipe Plug (3/4-14 sq.hd.)(As req.)(Bu y local) Pipe Plug (1/8-27 sq. hd.) (Use as re quired) Pipe Plug(1/8-27 hex c/sunk headless) (As req) Pin, Dowel Crankshaft (Incl. 6 thru 9, 140 & 141) 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.
7 8 9 11 11 11 11 11 11 11 11 11 11 11 11 1	29783 34692 31932 31928 34511 34512 34513 32238B 32239B 32240B 31919 32241 32242 32243 33093A 34383 34384 32077 26073 28264 34752 33471 33505 33645 33506 33646 33507 33508 34410 33509 33510 34751 650745 35479 30590A 31948 31956B 34690 3650464		Pin, Crankshaft gear Gear Crankshaft (Helical) Bearing, Tapered roller Cup, Bearing Piston, Pin & Ring Set (Std.) (3-1/2" Bore) Piston, Pin & Ring Set (.010" OS) Piston, Pin & Ring Set (.020" OS) Piston & Pin Ass'y. (Std.)(3-1/2")(In cl.12) Piston & Pin Ass'y. (.010" OS) (Incl. 12) Piston & Pin Ass'y. (.020 " OS) (Incl. 12) Piston & Pin Ass'y. (.020 " OS) (Incl. 12) Ring, Piston pin retaining Ring Set (Std.) (3-1/2" Bore) Ring Set (.010" OS) Ring Set (.020" OS) Connecting Rod Assy.(Std.)(Incl.15, 1 6 & 17) Connecting Rod Assy.(.010" US)(Incl.1 5,16,17) Connecting Rod Assy.(.020" US)(Incl.1 5,16.17) Bolt, Connecting rod Washer, Connecting rod Nut Assy. Carnshaft (MCR) (Helical) Lifter, Valve Rod, Push Intake Valve (Std.) Intake Valve (Std.) Exhaust Valve (Std.) Exhaust Valve (1/32" OS) Exhaust Valve (1/32" OS) Spring, Valve Retainer & Cap Set, Keeper valve * "O" Ring (Intake only) (Also Incl. in 251) * "O" Ring (Intake only) (Also Incl. in 251) Cap, Valve Governor Gear Ass'y. (Helical) Washer, Flat Washer, Flat Washer, Flat Washer, Flat Spool, Governor * Gasket, Cylinder cover Cover Assy., Cylinder (Incl. 2, 33 & 134) * Seal, Oil
35 36 37	650451 650492 32425 32426 29193		Screw, 1/4-20 x 1" Screw, 1/4-20 x 2-1/4" Rod Assy., Governor Spacer, Governor rod Ring, Retaining

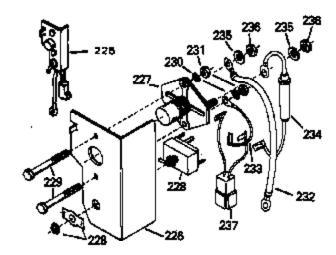
Ref #	Part Number Qty	Description
	650736	Screw, 10-16 x 3/8"
	33495	Cover, Cylinder head
	34225A	* Gasket, Cylinder head
	33465	Head, Cylinder
	33657	Spark Plug (L-82C)
	650691	• • • • •
		Washer, Flat
	650690	Washer, Belleville
	650746	Screw, 5/16-18 x 1-3/8"
	650692	Screw, 5/16-18 x 1-3/4"
	730218	Valve Guide Kit (Incl. 49)
	792035	Ring, Retaining
	33515A	* Gasket, Intake pipe
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
	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
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
	610909	Flywheel
	730201	Trigger Pin Kit (Use as required)
	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"
87	650752	Screw, 1/4-20 x 7/16"
	35475	Tube, Push rod
	33481	* "O" Ring (Also Incl. in 251)
	34754	Housing, Rocker arm
	33013	Cover, Starter bubble
	650701	Screw, 8-18 x 7/16"
	33484	* "O" Ring (Also Incl. in 251)
34	OUT	O Tally (100 IIIol. III 201)

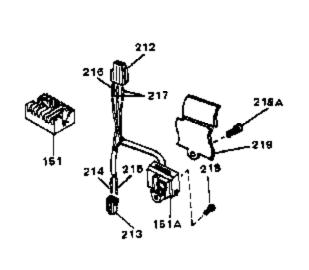
Ref #	Part Number Qty	Description
	650168	Washer, Flat
	32610A	Screw, 1/4-20 x 29/32"
	33485	Arm, Rocker
	33486	Ring, Retaining
	650755	Screw, 1/4-20 x 3/4"
	650864	Nut, Hex, 1/4-20
	650756	Stud, Rocker arm
	33487	* "O" Ring (Also Incl. in 251)
	33488	Cover, Rocker arm
	31958A	* Gasket, Breather (Also 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"
109	32438	Nipple, Pipe
110	32154	Cap, Pipe
111	35471	* Gasket, Air cleaner
114	650399	Screw, 10-32 x 5/8"
	32008	Element, Air cleaner
	650513	Nut, Wing
	32426	Spacer, Screen
	33776	Screen, Pulley
	650670	Screw, 1/4-20 x 3/4"
	27070	Washer, Lock
	650675	Washer, Flat
	650744	Screw, 10-24 x 7/8"
	34650	Tube extension, Oil fill
	32577	
140	32311	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
		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
457	00004	
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
150	610118	Cover, Spark plug
	610750	Grommet, Lead wire
		·
	610408 610908	Nut, 8-32
		Terminal, Female
169A	27793	Clip, Conduit

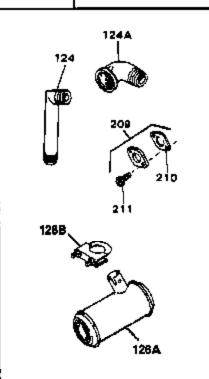
Ref #	Part Number	Qty	Description
170	28942		Screw, 10-32 x 3/8"
189	33984A		Dipstick (Incl. 190)
190	33590		"O" Ring
191	33893A		Tube, Oil filler
244	34346		Decal, Instruction
246	631687		Valve, Seat & Spring Assy.
247	632180		Carburetor (Incl. 54 & 246) (Refer to Division 5, Section A, page 160 for breakdown) (Refer to Division 5, Section D for breakdown)
	33516G 35075		* Gasket Set (Incl. items marked *) "O" Ring Kit (Incl. Nos. items marked +)

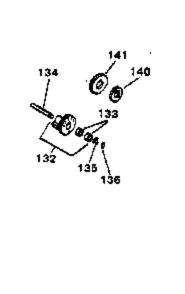
ILLUSTRATION SHOWS TYPICAL PARTS ONLY. ORDER BY PART NUMBER. PARTS NOT LISTED ARE SUPPLIED BY CEM.

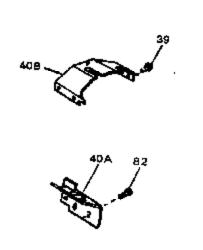
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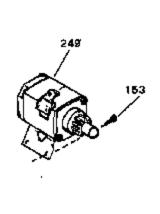


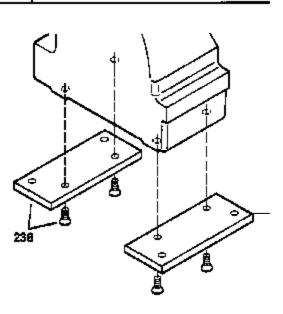






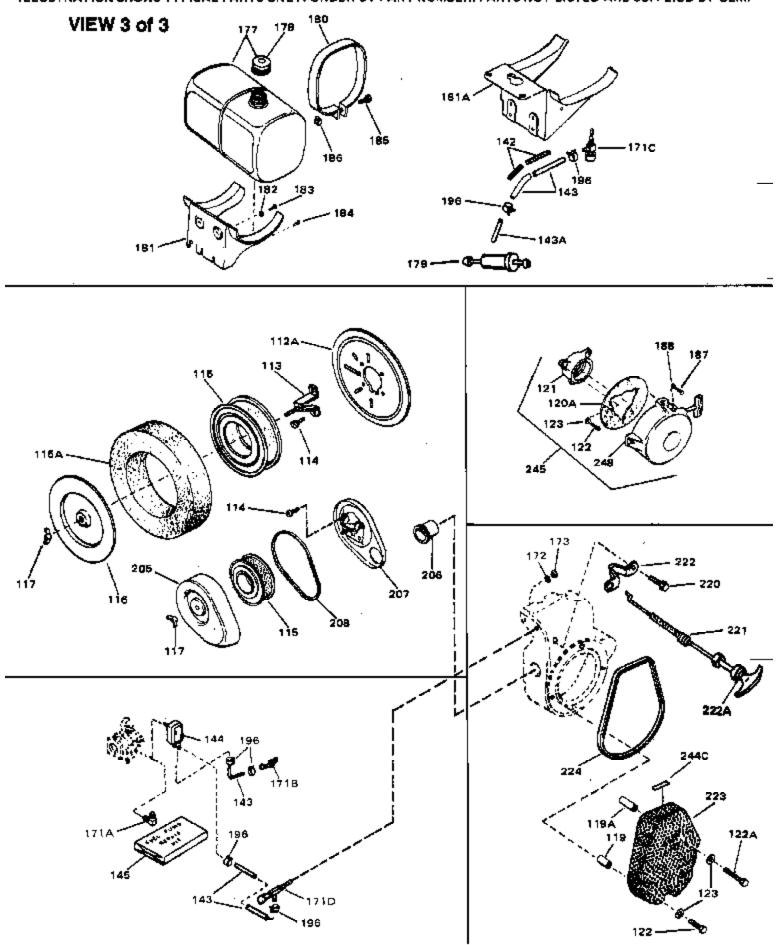






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		Qty	Description
	650736		Screw, 10-16 x 3/8"
	30063		Screw, 1/4-20 x 1/2"
	35731		Muffler (Incl. 126B)
	34651		Weight Assy., Counterbalance
	33501		Bearing, Needle
	33502		Shaft, Counterbalance
	33503		Washer, Thrust
	792017		Ring, Retaining
140	33499		Spacer
	33963		Gear, Counterbalance weight (Helical teeth)
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)
	650521		Screw, 10-32 x 1-1/8"
	792028		Screw, 5/16-18 x 7/8"(Use w/32817 str .motor)
	650781		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)
	730212		Adapter Plate Kit (Optional) NOTE: If you are having
200	700212		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
			top mounting byb

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



112A 33777	Bracket, Air cleaner
1121 30111	
113 33778	Bracket, Air cleaner
114 650399	Screw, 10-32 x 5/8"
115A 32906	Filter, Pre Air
115 32008	Element, Air cleaner
116 32904	Cover, 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
143A 31400	Fuel Line (Metal)
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
171D 32961	Valve, Shut off
172 32960	Washer, Lock
173 650849	Nut, Hex, 3/8-24
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)
245 730134	Rewind Starter Kit (Incl.120A, 121, 122, 187, 188 & 248) (Use as required)