

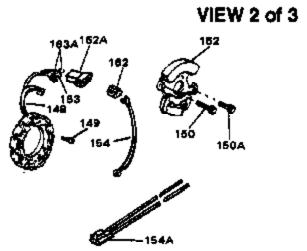
1 2 2 2 2 2 2 4	34648A 31927 28483	Cylinder (Incl. 2, 4 & 33) (3-5/8" Bo re) Pipe Plug, 3/8-18 sq. head (Use as re quired) Pipe Plug (3/8-18 hex countersunk) (A s req.) Pipe Plug (3/4-14 sq.hd.)(As req.)(Bu y local) Pipe Plug (1/8-27 sq. hd.) (Use as re quired) Pipe Plug(1/8-27 hex c/sunk headless) (As req) Pin, Dowel Crankshaft (Incl. 6 thru 9) 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 34624 34625 34626 34629 34630 34631 34634 34635 34636 34637 34640 35243 35244 32077 26073 28264 34752 33472 233471 34643 34644 33506 33646 33507 33508 34410 33509 33510 34751 650745 35479 30590A 31948 31956B 32580A 31950 650451 650588	Pin, Crankshaft gear Gear Crankshaft (Helical) Bearing, Tapered roller Cup, Bearing Piston, Pin & Ring Set (Std.) (3-5/8" Bore) Piston, Pin & Ring Set (.010" OS) Piston, Pin & Ring Set (.020" OS) Piston & Pin Ass'y. (Std.)(3-5/8")(In cl. 12) Piston & Pin Ass'y. (.020" 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.) (3-5/8" Bore) Ring Set (.010" OS) Ring Set (.010" OS) Ring Set (.020" OS) Connecting Rod Assy. (Incl. 15, 16 & 17) Connecting Rod Assy. (200" US)(Incl.1 5,16,17) Connecting Rod Assy. (200" US)(Incl.1 5,16,17) Bolt, Connecting rod Washer, Connecting rod Nut Assy. Camshaft (MCR) (Helical) Lifter, Valve Rod, Push Intake Valve (Std.) Exhaust Valve (Std.) * "O" Ring (Exhaust 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 Spool, Governor * Gasket, Cylinder cover Cylinder Cover Assy. (Incl.2,33,36,37 & 38) * Seal, Oil Screw, 1/4-20 x 1" Screw, 1/4-20 x 2"
37	32425 32426 29193	Rod Assy., Governor Spacer, Governor rod Ring, Retaining

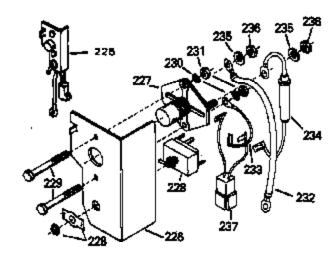
		Description
	650736	Screw, 10-16 x 3/8"
40	33495	Cover, Cylinder head
41	34641A	* Gasket, Cylinder head
42	34771	Head, Cylinder
43	31980	Pulley, Starter
44	32046	Rope Assy., Starter
	34645	Resistor Spark Plug (RN-4C)
	650691	Washer, Flat
	650690	Washer, Belleville
	650746	Screw, 5/16-18 x 1-3/8"
	650692	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
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
60	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)
	650666	Washer, Lock
	32579	Baffle, Blower housing
	650561	Screw, 1/4-20 x 5/8"
	650592	Key, Flywheel
	730201	Trigger Pin Kit (Use as required)
	610909	Flywheel
78	650594	Nut, Flywheel
79	610906	Solid State Magneto (Incl. 158 thru 1 61)
80	650661	Screw, 1/4-20 x 3/4"
81	33479	Extension, Blower housing
82	30063	Screw, 1/4-20 x 1/2"
83	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)
	34754	Housing, Rocker arm
94	33484	* "O" Ring (Also Incl. in 251)

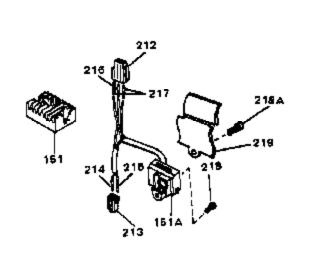
Ref #	Part Number Qty	Description
	650168	Washer, Flat
	32610A	Screw, 1/4-20 x 29/32"
	33485	Arm, Rocker
	33486	Ring, Retaining
	650755	Screw, 1/4-20 x 3/4"
	650864	Nut, Hex, 1/4-20
	650756	Stud, Rocker arm
	33487	* "O" Ring (Also Incl. in 251)
	33488	Cover, Rocker arm
	31958A	* Gasket, Breather (Also Incl. in 251)
	33489	Body Assy., Breather
	33490	Tube, Breather
	30102	* Screw, 10-32 x 5/8" (Also Incl. in 25 1)
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
	33776	Screen, Pulley
	650680	Screw, 1/4-20 x 1-1/2"
	27070	Washer, Lock
	650590	Nut, Conduit
	32143	Nipple, Exhaust
140	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. Here of gaskets must be limited to a combined total
		required. Use of gaskets must be limited to a combined total of .010" thick. Steel spacersmust be used as required to eli
	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
		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
150	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"
170		

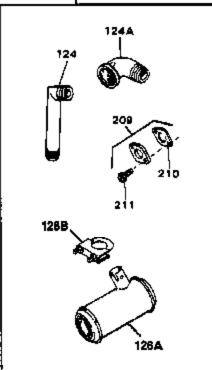
Ref #	Part Number (	Qty	Description
189	33764		Dipstick (Incl. 190)
190	29985		"O" Ring
191	33468		Tube Assy., Oil filler
192	29673		* Gasket, Oil filler tube
244	34346		Decal, Instruction
244B	31752		Decal, Air cleaner
244A	34768		Decal, Name
246	631687		Valve, Seat & Spring Assy.
247	632205		Carburetor (Incl. 54 & 246) (Refer to Division 5, Section A,
			page 160 for breakdown)
250	33516F		* Gasket Set (Incl. items marked *)
	35075		"O" Ring Kit (Incl. Nos. items marked +)
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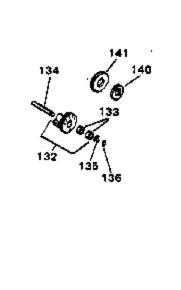
## ILLUSTRATION SHOWS TYPICAL PARTS ONLY. ORDER BY PART NUMBER. PARTS NOT LISTED ARE SUPPLIED BY CEM.

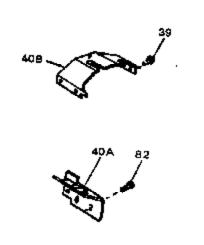


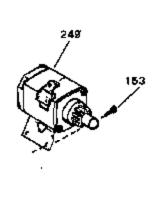


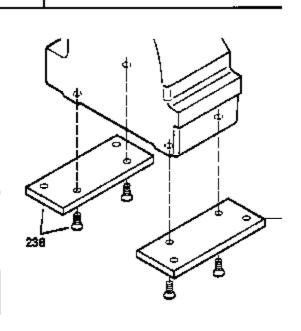






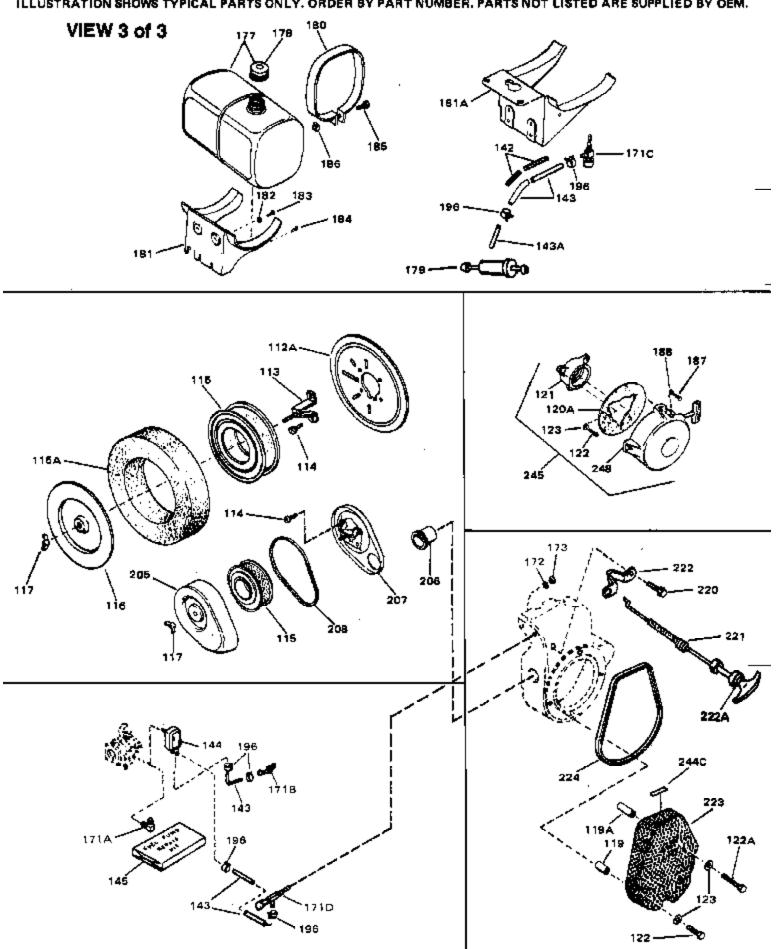






Ref #	Part Number	Qty	Description
82 126B	650736 30063 35732 35731		Screw, 10-16 x 3/8" Screw, 1/4-20 x 1/2" Clamp, Muffler Muffler (Incl. 126B) Gear, Counterbalance weight (Straight teeth) (For replacement see Ref. 132. Order correct kit for your enginemodel number.)
149 151A 153 153 162A 163 163A 209 210 211 212 213 214 215 216 217	610902 650521 610996 792028 650781 610903 610904 610905 730178 34102B 30196 610990 610921 610922 610989 610992 610991 30063 730212		Alt.Coil Ass'y. (Incl.162,163,163A) ( 20 amp) Screw, 10-32 x 1-1/8" Regulator (20 Amp) (Incl. 212 thru 21 8) 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) Connector, Male Connector Terminal Terminal Terminal Terminal, Female Screw, 1/4-20 x 1/2" 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
249	33835		top mounting sys  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 # F	Part Number Qty	Description
114 6	650399	Screw, 10-32 x 5/8"
115 3	32008	Element, Air cleaner
117 6	650513	Nut, Wing
119 3	31992	Spacer, Screen
122 6	650680	Screw, 1/4-20 x 1-1/2"
123 2	27070	Washer, Lock
143 2	29774	Fuel Line (Braided 8.25")(21 cm)(As r equired)
143 3	30705	Fuel Line (Braided 16")(41 cm)(As req uired)
143 3	30962	Fuel Line (Braided 32")(81 cm)(As req uired)
144 3	32959	Pump, Impulse fuel
145 3	33010	Repair Kit, Impulse fuel pump
171B 3	32958	Fitting, Fuel pump
178 4	410144B	Fuel Cap (White Plastic)(Std)(As required)
178 3	34210	Fuel Cap (Red Plastic) (Spurt resistant, High profile) (Use as
		required)
196. 2	26460	Clamp, Fuel line (Use as required)
	730134	Rewind Starter Kit (Incl.120A, 121, 122, 187, 188 & 248)
		(Use as required)