

	33823A	Oty Description Cylinder (Incl. 2, 4 & 33) (3-5/16" B ore)
2 2 2 2 2 4	31927 28483 9556 28534 27652 34045A	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 11A 11A 11A 11A 11A 11A 11 11 11 11 11	29783 31931 31932 31928 32001C 32002B 32003B 34508 34509 34510 31919 32004 32005 32006 33093A 34383 34384 32077 26073 28264 33470 33472 33471 33505 33645 33506 33646 33507 33508 33509 34410 33510 33473 650745 35479 30590A 31948 31956B 32685 31950 650451 650588	Pin, Crankshaft gear Gear, Crankshaft (Straight) Bearing, Tapered roller Cup, Bearing Piston & Pin Ass'y. (O10" OS) (Incl. 12) Piston & Pin Ass'y. (O20" OS) (Incl. 12) Piston & Pin Ass'y. (O20" OS) (Incl. 12) Piston, Pin & Ring Set (Std.) (3-5/16" Bore) Piston, Pin & Ring Set (.010" OS) Piston, Pin & Ring Set (.020" OS) Ring, Piston pin retaining Ring Set (Std.) (3-5/16" Bore) Ring Set (O10" OS) Ring Set (.010" OS) Ring Set (.020" OS) Connecting Rod Assy.(Std.)(Incl.15, 1 6 & 17) Connecting Rod Assy.(.020" US)(Incl.1 5,16,17) Connecting Rod Assy.(.020" US)(Incl.1 5,16.17) Bolt, Connecting rod Washer, Connecting rod Nut Assy. Camshaft (MCR) (Straight) Lifter, Valve Rod, Push Intake Valve (Std.) Intake Valve (1/32" OS) Exhaust Valve (Std.) Exhaust Valve (Std.) Exhaust Valve (I/32" OS) Spring, Valve Retainer & Cap Set, Keeper valve * "O" Ring (Intake only) (Also Incl. in 251) * "O" Ring (Exhaust only) (Also Incl. in 251) Cap, Valve Governor Gear & Shaft Ass'y. (Straigh t) Washer, Flat Washer, Flat Washer, Flat Spool, Governor * Gasket, Cylinder cover Cyl.Cover Assy.(Incl.2,33,36,37,38,19 4 & 195) * 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

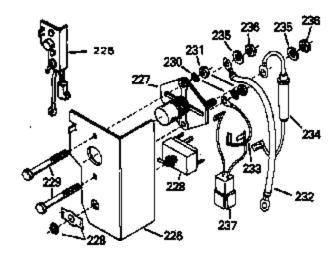
	Dert Marchael	Description
	Part Number Qty	
	650736	Screw, 10-16 x 3/8"
	33495	Cover, Cylinder head
	34225A	* Gasket, Cylinder head
	33763	Head, Cylinder
	33657	Spark Plug (L-82C)
46A	650691	Washer, Flat
46	650690	Washer, Belleville
47A	650746	Screw, 5/16-18 x 1-3/8"
47	650692	Screw, 5/16-18 x 1-3/4"
48	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
	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
64	31965	Plate, Governor spring
65	31984A	Lever Assy., Control
66	28558	Washer, Wave
67	31966	Bushing, Governor lever
68	650597	Screw, 10-24 x 5/8"
69	34021	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
	650594	Nut, Flywheel
	610906	Solid State Magneto (Incl. 158 thru 1 61)
	650661	Screw, 1/4-20 x 3/4"
	33479	Extension, Blower housing
	650751	Screw, 1/4-20 x 7/16"
	33775A	Blower Hsg.(Incl.218A,219)(For elec.s tarter)
	8274	Washer, Lock
85A	8274	Washer, Lock
86A	650595	Screw, 5/16-24 x 3/8"
86	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)
	650168	Washer, Flat
90	000100	vvasiici, i lat

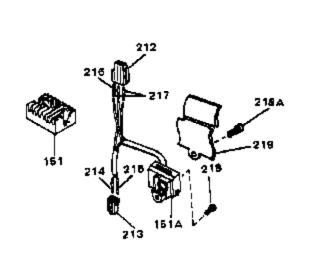
Ref #	Part Number Qty	Description
	32610A	Screw, 1/4-20 x 29/32"
	33485	Arm, Rocker
	33486	Ring, Retaining
	650755	Screw, 1/4-20 x 3/4"
	650864	Nut, Hex, 1/4-20
	650756	Stud, Rocker arm
	33487	* "O" Ring (Also Incl. in 251)
	33488	Cover, Rocker arm
	31958A	* Gasket, Breather (Also Incl. in 251)
	33489	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"
	35471	* Gasket, Air cleaner
	35472	Bracket, Air cleaner
	650399	Screw, 10-32 x 5/8"
	32008	Element, Air cleaner
	32810	Cover, Air cleaner
	650513	Nut, Wing
	650516	Screw, 1/4-20 x 1-1/8"
	650675	Washer, Flat
	32577	Cover, Cylinder NOTE: Determine the gap between the cover
140	32311	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"
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
130	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
450	C40440	•
	610118	Cover, Spark plug
	610750	Grommet, Lead wire
	610408	Nut, 8-32
	610908	Terminal, Female
	33993A	Dipstick (Incl. 190)
	33590	"O" Ring
	33992A	Tube, Oil filler
	34346	Decal, Instruction
	550223	Decal, Name
246	632024	Valve, Seat & Spring Assy.

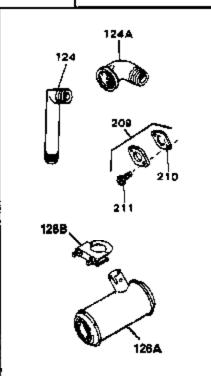
Ref # Part Number	Qty Description
247 632032	Carburetor (Incl. 54 & 246) (Refer to Division 5, Section A, page 160 for breakdown)
250 33516G 251 35075	* Gasket Set (Incl. items marked *) "O" Ring Kit (Incl. Nos. items marked +)

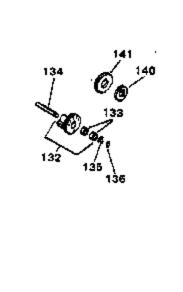
ILLUSTRATION SHOWS TYPICAL PARTS ONLY. ORDER BY PART NUMBER. PARTS NOT LISTED ARE SUPPLIED BY CEM.

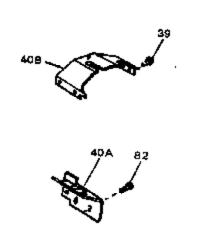
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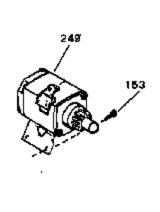


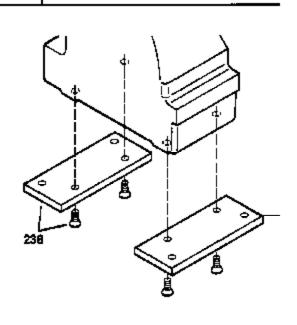






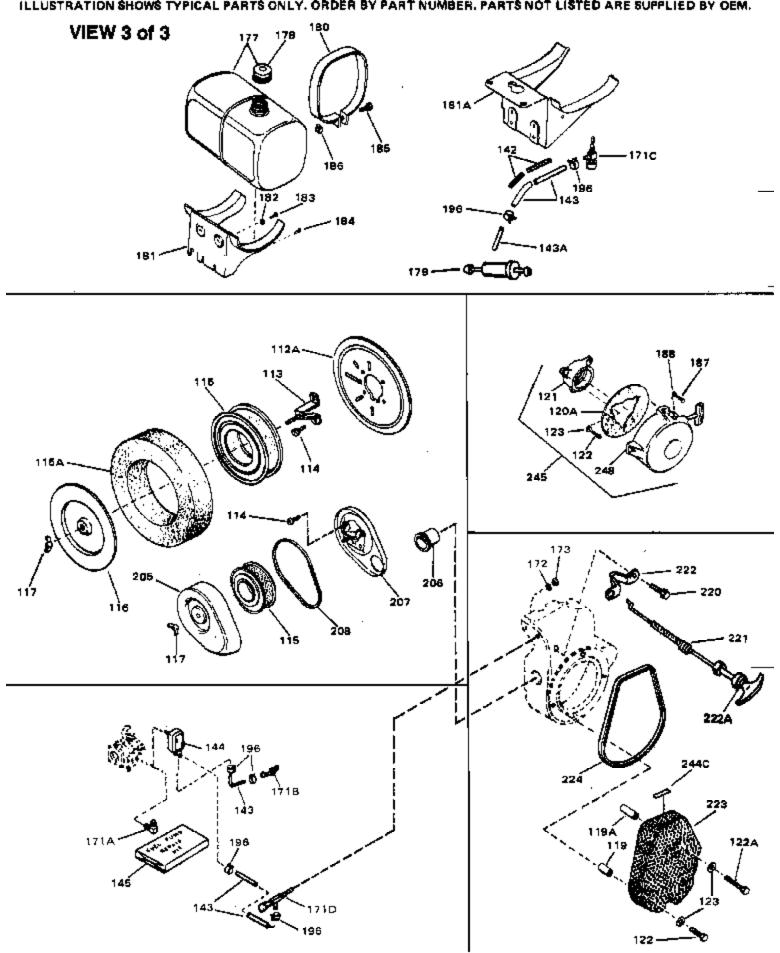






Ref #	Part Number C	ty Description
39	650736	Screw, 10-16 x 3/8"
126A	35731	Muffler (Incl. 126B)
141		Gear, Counterbalance weight (Straight teeth) (For replacement see Ref. 132. Order correct kit for your enginemodel number.)
148	610902	Alt.Coil Ass'y. (Incl.162,163,163A) (20 amp)
149	650521	Screw, 10-32 x 1-1/8"
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
163	610904	Terminal
163A	610905	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)
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

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



		Description
114	650399	Screw, 10-32 x 5/8"
115	32008	Element, Air cleaner
117	650513	Nut, Wing
120A	32049	Screen, Starter hub
121	32048	Hub, Starter
122	650516	Screw, 1/4-20 x 1-1/8"
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	33981	Pump, Impulse fuel
145	33010	Repair Kit, Impulse fuel pump
	29683	Valve, Fuel strainer & shut-off
	32958	Fitting, Fuel pump
	33979	Fuel Tank (Incl. 178)
178	410144B	Fuel Cap (White Plastic)(Std)(As requ ired)
178	34210	Fuel Cap (Red Plastic) (Spurt resistant, High profile) (Use as
		required)
180	33980	Strap, Fuel tank
	33978	Bracket, Fuel tank
	650787	Washer, Belleville
	650786	Screw, 1/4-20 x 5/8"
	650785	Screw, 5/16-18 x 5/8"
	650488	Screw, 1/4-20 x 1-1/4"
	650456	Nut, Lock
	650598	Screw, 1/4-28 x 3/4"
	8345	Washer
196	26460	Clamp, Fuel line (Use as required)
	730134	Rewind Starter Kit (Incl.120A, 121, 122, 187, 188 & 248)
		(Use as required)
040	500 405 A	, ,
248	590405A	Rewind Starter (Refer to Division 5, Section C, page 24 for
		breakdown) (Refer to Division 5, Section D for breakdown)