

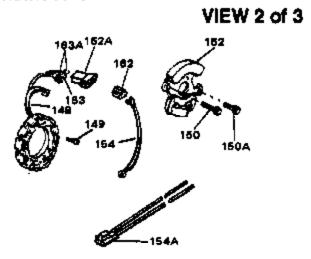
Ref #	Part Number	Qty	Description
2 2 2 2 2 4	33707A 31927 28483 9556 28534 27652 33423B		Cylinder (Incl. 2, 4 & 33) (3-1/2" Bo re) Pipe Plug, 3/8-18 sq. head (Use as re quired) Pipe Plug (3/8-18 hex countersunk) (A s req.) Pipe Plug (3/4-14 sq.hd.)(As req.)(Bu y local) Pipe Plug (1/8-27 sq. hd.) (Use as re quired) Pipe Plug(1/8-27 hex c/sunk headless) (As req) Pin, Dowel Crankshaft (Incl. 6 thru 9) 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 10A 10 11 11 11A 11A 11A 11A 11A 11A 11	29783 31931 31932 31928 34223 34222 34511 34512 34513 32238B 32239B 32240B 31919 32241 32242 32243 33093A 34383 34384 32077 26073 28264 33470 33472 33471 33505 33645 33506 33646 33507 33508 34410 33509 33510 33473 650745 35479 30590A 31948 31956B 34095		Pin, Crankshaft gear Gear, Crankshaft (Straight) Bearing, Tapered roller Cup, Bearing Bearing & Seal Assy., Needle Bearing, Needle Piston, Pin & Ring Set (Std.) (3-1/2" Bore) Piston, Pin & Ring Set (.010" OS) Piston, Pin & Ring Set (.020" 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.(.020" US)(Incl.1 5,16,17) Connecting Rod Assy.(.020" US)(Incl.1 5,16.17) Bolt, Connecting rod Washer, Connecting rod Washer, Connecting rod Nut Assy. Camshaft (MCR) (Straight) Lifter, Valve Rod, Push Intake Valve (Std.) Intake Valve (Std.) Exhaust Valve (Std.) Exhaust Valve (Std.) Exhaust Valve (Std.) Exhaust 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 & Shaft Ass'y. (Straigh t) Washer, Flat Washer, Flat Washer, Flat (Use with 35322 spool) Washer, Flat Spool, Governor * Gasket, Cylinder cover Cylinder Cover Ass'y. (Incl. 2, 10, 10A, 33, 36, 37, 38, 93, 194 & 195)
34	31950 650451 650588		* Seal, Oil Screw, 1/4-20 x 1" Screw, 1/4-20 x 2"

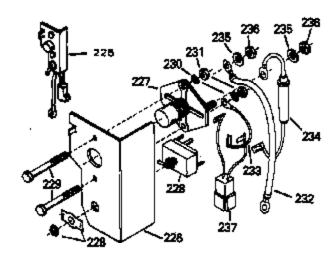
Ref #	Part Number Qty	Description
	32425	Rod Assy., Governor
	32426	Spacer, Governor rod
	29193	•
		Ring, Retaining
	650736	Screw, 10-16 x 3/8"
	33495	Cover, Cylinder head
	34225A	* Gasket, Cylinder head
	33465	Head, Cylinder
	31980	Pulley, Starter
	35552	Spark Plug (RL-82C)
46A	650691	Washer, Flat
46	650690	Washer, Belleville
47	650692	Screw, 5/16-18 x 1-3/4"
47A	650746	Screw, 5/16-18 x 1-3/8"
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
	33983	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"
63	7975	Nut, 10-24
64	31965	Plate, Governor spring
65	34456	Lever Assy., Control
67	31966	Bushing, Governor lever
68	650597	Screw, 10-24 x 5/8"
69	33982	Spring, Governor
69A	33982	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
	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
	650751	Screw, 1/4-20 x 7/16"
	34314B	Blower Hsg.(Incl.218A,219)(For elec.s tarter)
	8274	Washer, Lock
85	8274	Washer, Lock
86	650595	Screw, 5/16-24 x 3/8"
86A	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)
30		- /

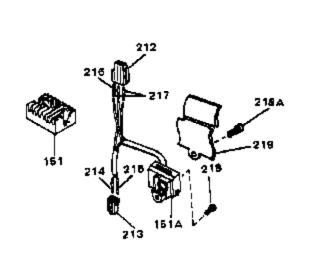
Dof #	Part Number Oty	Deparintion
	Part Number Qty	
	34754	Housing, Rocker arm
	8345	Washer, Flat
	33484	* "O" Ring (Also Incl. in 251)
	650168	Washer, Flat
	32610A	Screw, 1/4-20 x 29/32"
	33485	Arm, Rocker
	33486	Ring, Retaining
	650755	Screw, 1/4-20 x 3/4"
	650864	Nut, Hex, 1/4-20
	650756	Stud, Rocker arm
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
106	33490	Tube, Breather
107	30102	* Screw, 10-32 x 5/8" (Also Incl. in 25 1)
108	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
	31992	Spacer, Screen
	33776	
		Screen, Pulley
	650680	Screw, 1/4-20 x 1-1/2"
	27070	Washer, Lock
	33450	Nut, Lock, 10-32
	30845A	Bolt, Governor spring adj.
	650488	Screw, 1/4-20 x 1-1/4"
	34457	Bracket, Control
	650168	Washer, Flat
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	•
100	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
.00	0.0.2	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
		2p.3.2

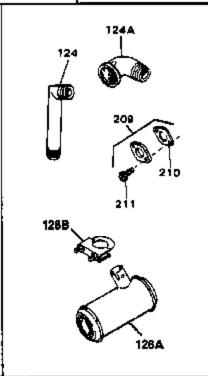
Ref #	Part Number C	ty Description
158	610118	Cover, Spark plug
159	610750	Grommet, Lead wire
160	610408	Nut, 8-32
161	610908	Terminal, Female
189	33993A	Dipstick (Incl. 190)
190	33590	"O" Ring
191	33992A	Tube, Oil filler
244	34346	Decal, Instruction
244A	550223	Decal, Name
246	631687	Valve, Seat & Spring 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 +)

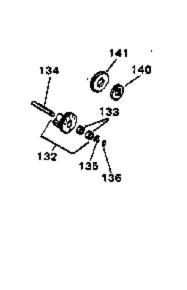
ILLUSTRATION SHOWS TYPICAL PARTS ONLY. ORDER BY PART NUMBER. PARTS NOT LISTED ARE SUPPLIED BY CEM.

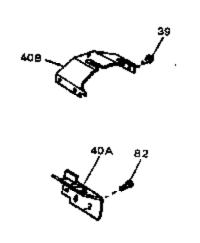


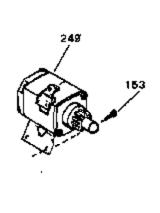


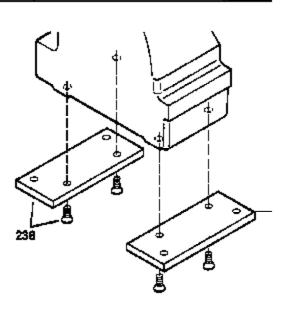






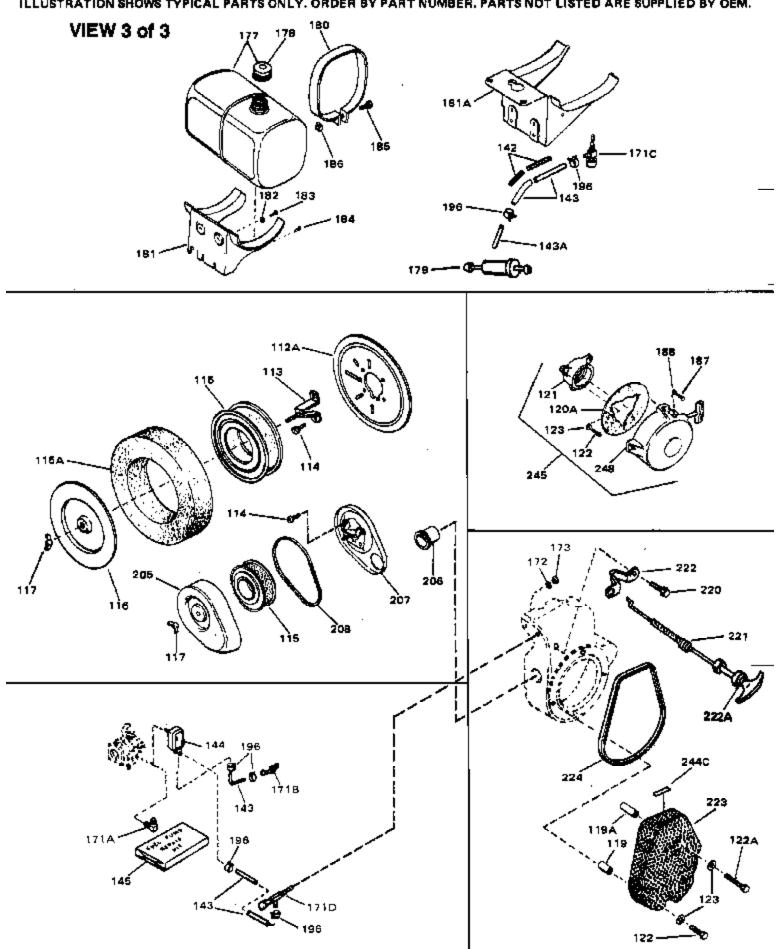






Ref #	Part Number	Qty	Description
	650736 35731	·	Screw, 10-16 x 3/8" Muffler (Incl. 126B) Gear, Counterbalance weight (Straight teeth) (For replacement see Ref. 132. Order correct kit for your enginemodel number.)
149 151A 153 153 162A 163A 163 209 210 211 212 213 214 215 216 217	610902 650521 610996 792028 650781 610903 610905 610904 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, Female 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 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	31992		Spacer, Screen
122	650680		Screw, 1/4-20 x 1-1/2"
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	34392A		Pump, Impulse fuel
	33010		Repair Kit, Impulse fuel pump
171C	29683		Valve, Fuel strainer & shut-off
171A	28566		Fitting, Fuel line
177	33979		Fuel Tank (Incl. 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
196	26460		Clamp, Fuel line (Use as required)
	730134		Rewind Starter Kit (Incl.120A, 121, 122, 187, 188 & 248) (Use as required)