

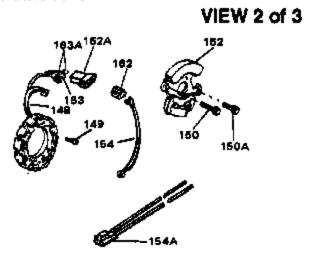
Ref #	Part Number	Qtv	Description
2 2 2 2 2 4	33707A 31927 28483 9556 28534 27652 33393A		Cylinder (Incl. 2, 4 & 33) (3-1/2" Bo re) Pipe Plug, 3/8-18 sq. head (Use as re quired) Pipe Plug (3/8-18 hex countersunk) (A s req.) Pipe Plug (3/4-14 sq.hd.)(As req.)(Bu y local) Pipe Plug (1/8-27 sq. hd.) (Use 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 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 33509 34410 33510 34751 650745 35479 30590A 31948		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.(.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) (Helical) Lifter, Valve Rod, Push Intake Valve (Std.) Intake Valve (Std.) Exhaust Valve (Std.) Exhaust Valve (Std.) Exhaust Valve (1/32" OS) Spring, Valve Retainer & Cap Set, Keeper valve * "O" Ring (Intake only) (Also Incl. in 251) * "O" Ring (Exhaust only) (Also Incl. i n 251) Cap, Valve Governor Gear Ass'y. (Helical) Washer, Flat Washer, Flat Washer, Flat Washer, Flat Spool, Governor
32 33 34 35 36 37	31956B 32580A 31950 650451 650588 32425 32426 29193		* 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" Rod Assy., Governor Spacer, Governor rod Ring, Retaining

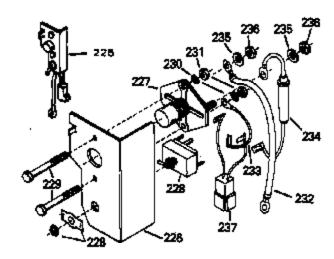
39 680736   Screw, 10-16 x 3/8'	Ref #	Part Number Q	ty Description
40 33495 41 34255A 42 34753 43 31980 42 34753 43 31980 Pulley, Starter 45 33657 46A 660091 47A 660091 47A 660091 47A 660092 47A 660092 48 5crew, 516-18 x 1-38" 49 782035 51 33475 52 660378 53 782028 53 782075 52 660378 53 782028 53 782077 54 3477A 56 782077 56 782077 56 783477 56 783077 57 8416, Geovern Jever Lock Forth Tributile leve r Lock, Covernor Jever Jever, Jever, Covernor Jever Jever, Jever	39		,
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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         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 7/16"         83       650751       Screw, 1/4-20 x 7/16"         84       33775A       Blower Housing         85A       8274       Washer, Lock         85       8274       Washer, Lock         85       8274       Washer, Lock         86       650595       Screw, 5/16-24 x 3/8"         87       650752       Screw, 5/16-24 x 3/8"         87       650752       Screw, 1/4-20 x 7/16"         88       35475       Tube, Push rod         89       33481       *"O" Ring (Also Incl. in 251)         90       34754       Housing, Rocker arm			
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76       650592       Key, Flywheel         77A       730201       Trigger Pin Kit (Use as required)         77       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 7/16"         83       650751       Screw, 1/4-20 x 7/16"         84       33775A       Blower Hsg.(Incl.218A,219)(For elec.s tarter)         85A       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"         88       35475       Tube, Push rod         89       33481       * "O" Ring (Also Incl. in 251)         90       34754       Housing, Rocker arm			
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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"         84       33775A       Blower Hsg.(Incl.218A,219)(For elec.s tarter)         85A       8274       Washer, Lock         85       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"         88       35475       Tube, Push rod         89       33481       * "O" Ring (Also Incl. in 251)         90       34754       Housing, Rocker arm			• • • • • • • • • • • • • • • • • • • •
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 7/16" 83 650751 Screw, 1/4-20 x 7/16" 84 33775A Blower Hsg.(Incl.218A,219)(For elec.s tarter) 85A 8274 Washer, Lock 85 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" 88 35475 Tube, Push rod 89 33481 * "O" Ring (Also Incl. in 251) 90 34754 Housing, Rocker arm			
80 650661 Screw, 1/4-20 x 3/4" 81 33479 Extension, Blower housing 82 30063 Screw, 1/4-20 x 7/16" 83 650751 Screw, 1/4-20 x 7/16" 84 33775A Blower Hsg.(Incl.218A,219)(For elec.s tarter) 85A 8274 Washer, Lock 85 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" 88 35475 Tube, Push rod 89 33481 * "O" Ring (Also Incl. in 251) 90 34754 Housing, Rocker arm			
81 33479 Extension, Blower housing 82 30063 Screw, 1/4-20 x 1/2" 83 650751 Screw, 1/4-20 x 7/16" 84 33775A Blower Hsg.(Incl.218A,219)(For elec.s tarter) 85A 8274 Washer, Lock 85 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" 88 35475 Tube, Push rod 89 33481 * "O" Ring (Also Incl. in 251) 90 34754 Housing, Rocker arm			· · · · · · · · · · · · · · · · · · ·
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83 650751 Screw, 1/4-20 x 7/16" 84 33775A Blower Hsg.(Incl.218A,219)(For elec.s tarter) 85A 8274 Washer, Lock 85A 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" 88 35475 Tube, Push rod 89 33481 * "O" Ring (Also Incl. in 251) 90 34754 Housing, Rocker arm			
84 33775A Blower Hsg.(Incl.218A,219)(For elec.s tarter)  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"  88 35475 Tube, Push rod  89 33481 * "O" Ring (Also Incl. in 251)  90 34754 Housing, Rocker arm			
85A 8274 Washer, Lock 85 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" 88 35475 Tube, Push rod 89 33481 * "O" Ring (Also Incl. in 251) 90 34754 Housing, Rocker arm			·
85 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" 88 35475 Tube, Push rod 89 33481 * "O" Ring (Also Incl. in 251) 90 34754 Housing, Rocker arm			
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" 88 35475 Tube, Push rod 89 33481 * "O" Ring (Also Incl. in 251) 90 34754 Housing, Rocker arm			
86 650595 Screw, 5/16-24 x 3/8" 87 650752 Screw, 1/4-20 x 7/16" 88 35475 Tube, Push rod 89 33481 * "O" Ring (Also Incl. in 251) 90 34754 Housing, Rocker arm			·
87 650752 Screw, 1/4-20 x 7/16" 88 35475 Tube, Push rod 89 33481 * "O" Ring (Also Incl. in 251) 90 34754 Housing, Rocker arm			·
88 35475 Tube, Push rod 89 33481 * "O" Ring (Also Incl. in 251) 90 34754 Housing, Rocker arm			·
89 33481 * "O" Ring (Also Incl. in 251) 90 34754 Housing, Rocker arm			·
90 34754 Housing, Rocker arm			
94 33484 * "O" Ring (Also Incl. in 251)			
	94	33 <del>404</del>	O King (Also Inci. In 251)

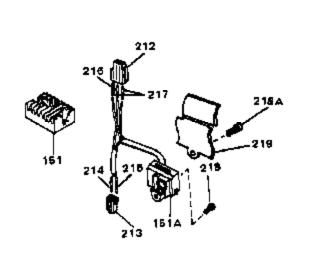
	Part Number	Qty	Description
95	650168		Washer, Flat
96	32610A		Screw, 1/4-20 x 29/32"
97	33485		Arm, Rocker
	33486		Ring, Retaining
	650755		Screw, 1/4-20 x 3/4"
	650864		Nut, Hex, 1/4-20
	650756		Stud, Rocker arm
	33487		* "O" Ring (Also Incl. in 251)
	33488		Cover, Rocker arm
	31958A		* Gasket, Breather (Also Incl. in 251)
	33489		
	33490		Body Assy., Breather Tube, Breather
	30102		
			* Screw, 10-32 x 5/8" (Also Incl. in 25 1)
	650738		Screw, 1/4-20 x 5/8"  * Cooket Air classes
	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
	650590		Nut, Conduit
	32043B		Muffler
	32143		Nipple, Exhaust
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
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
156	31972		* Gasket, Shim (.005/.007 thick) NOTE: Determine the gap
130	01072		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
450	610110		spacersmust be used as re
	610118 610750		Cover, Spark plug Grommet, Lead wire
	610408		Nut, 8-32
	610908		Terminal, Female
	27793		Clip, Conduit
109	21130		OIIP, OOI IQUIL

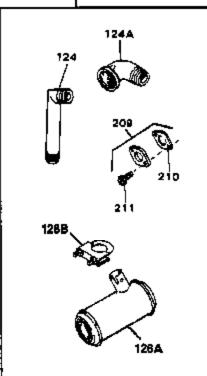
Ref #	Part Number (	Qty	Description
169A	27793		Clip, Conduit
170	28942		Screw, 10-32 x 3/8"
170A	28942		Screw, 10-32 x 3/8"
189	33984A		Dipstick (Incl. 190)
190	33590		"O" Ring
191	33893A		Tube, Oil filler
244B	31752		Decal, Air cleaner
244A	34768		Decal, Name
244	34346		Decal, Instruction
246	631687		Valve, Seat & Spring Assy.
247	632205		Carburetor (Incl. 54 & 246) (Refer to Division 5, Section A, page 160 for breakdown)
250	33516G		* Gasket Set (Incl. items marked *)
	35075		"O" Ring Kit (Incl. Nos. items marked +)

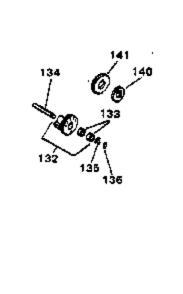
## ILLUSTRATION SHOWS TYPICAL PARTS ONLY. ORDER BY PART NUMBER. PARTS NOT LISTED ARE SUPPLIED BY CEM.

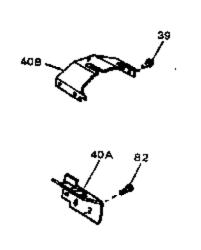


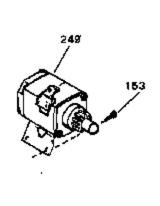


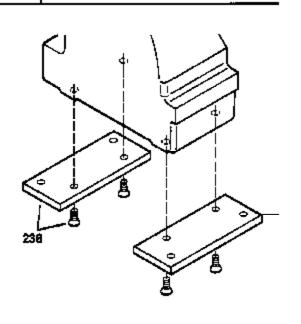






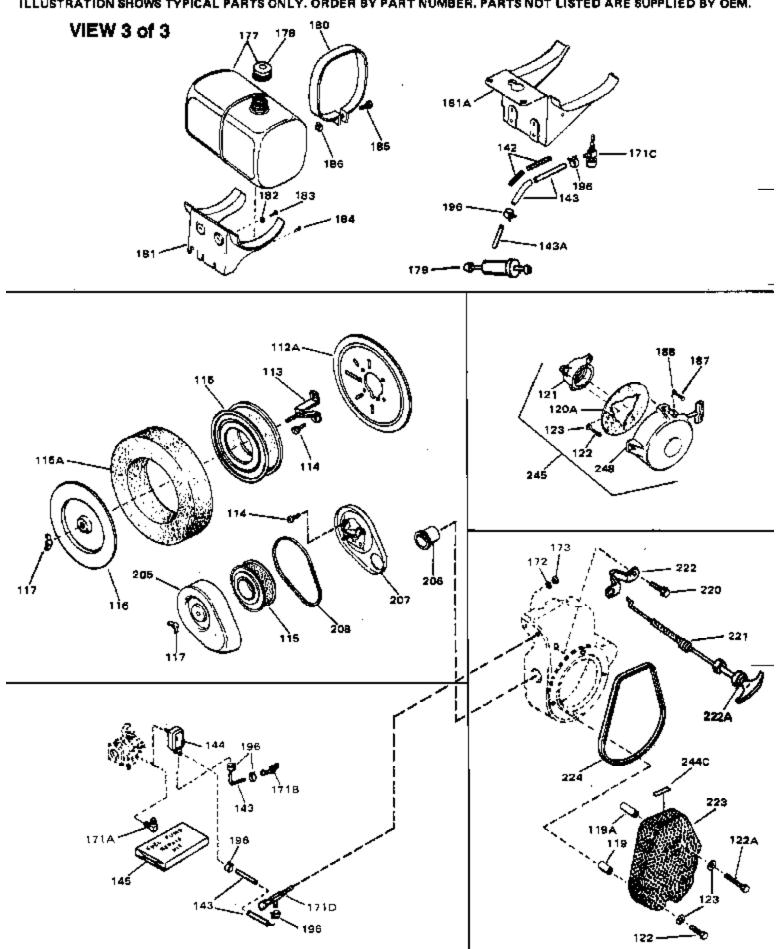






Ref #	Part Number	Qty	Description
82	650736 30063 35731		Screw, 10-16 x 3/8" Screw, 1/4-20 x 1/2" Muffler (Incl. 126B) Gear, Counterbalance weight (Straight teeth) (For replacement see Ref. 132. Order correct kit for your enginemodel number.)
149 153 153 162A 163 163A 209 210 211 218A 219	610902 650521 792028 650781 610903 610904 610905 730178 34102B 30196 650736 34276 730212		Alt.Coil Ass'y. (Incl.162,163,163A) ( 20 amp) Screw, 10-32 x 1-1/8" 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) Screw, 10-16 x 3/8" Cover plate, Blower housing 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	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)
179	34279A	Filter, Inline fuel
196	26460	Clamp, Fuel line (Use as required)
245	730134	Rewind Starter Kit (Incl.120A, 121, 122, 187, 188 & 248) (Use as required)