

Dof # Dor	t Number	Description
Ref # Part 1 342		Description Cylinder (Incl. 2, 4 & 33) (3-1/8" Bo re)
2 319		Pipe Plug, 3/8-18 sq. head (Use as re quired)
2 284		Pipe Plug (3/8-18 hex countersunk) (A s req.)
2		Pipe Plug (3/4-14 sq.hd.)(As req.)(Bu y local)
2 955		Pipe Plug (1/8-27 sq. hd.) (Use as re quired)
2 285		Pipe Plug(1/8-27 hex c/sunk headless) (As req)
4 276		Pin, Dowel
5 339		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.
6 297	783	Pin, Crankshaft gear
7 346		Gear Crankshaft (Helical)
8 319	932	Bearing, Tapered roller
9 319	928	Cup, Bearing
10 342	222	Bearing, Needle
10A 342		Bearing & Seal Assy., Needle
11A 342		Piston & Pin Ass'y. (Std.)(3-1/8")(In cl.12)
11A 342		Piston & Pin Ass'y. (.010" OS) (Incl. 12)
11A 342		Piston & Pin Ass'y. (.020" OS) (Incl. 12)
11 345		Piston, Pin & Ring Set (Std.) (3-1/8" Bore)
11 345		Piston, Pin & Ring Set (.010" OS)
11 345		Piston, Pin & Ring Set (.020" OS)
12 319 13 342		Ring, Piston pin retaining Ping Set (Std.) (3.1/8" Pare)
13 342		Ring Set (Std.) (3-1/8" Bore) Ring Set (.010" OS)
13 342		Ring Set (.020" OS)
14 330		Connecting Rod Assy.(Std.)(Incl.15, 1 6 & 17)
14 343		Connecting Rod Assy.(0.10" US)(Incl.1 5,16,17)
14 343		Connecting Rod Assy.(.020" US)(Incl.1 5,16.17)
15 320		Bolt, Connecting rod
16 260		Washer, Connecting rod
17 282		Nut Assy.
18 347		Camshaft (MCR) (Helical)
19 334	172	Lifter, Valve
20 334	1 71	Rod, Push
21 335		Intake Valve (Std.)
21 336		Intake Valve (1/32" OS)
22 335		Exhaust Valve (Std.)
22 336		Exhaust Valve (1/32" OS)
23 335		Spring, Valve
24 335		Retainer & Cap Set, Keeper valve * "O" Ping (Exhaust early) (Alea Ind. i.p. 351)
25A 344 25 335		* "O" Ring (Exhaust only) (Also Incl. i n 251) * "O" Ring (Intake only) (Also Incl. in 251)
26 335		Cap, Valve
20 333 27 347		Governor Gear Ass'y. (Helical)
28 650		Washer, Flat
29 354		Washer, Flat (Use with 35322 spool)
29 305		Washer, Flat
30 319		Spool, Governor
31 319		* Gasket, Cylinder cover
32 340		Cylinder Cover Ass'y. (Incl. 2, 10, 10A, 33, 36, 37, 38, 93,
		194 & 195)
33 319	950	* Seal, Oil
34 650		Screw, 1/4-20 x 1"
35 650		Screw, 1/4-20 x 2"

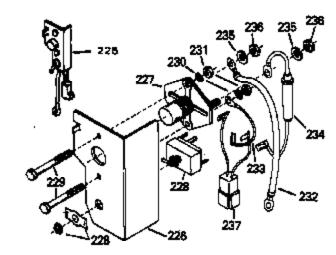
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53 792028 54 33476A 56 33477A 56 792075 Nut, Lock, 5/16-24 (Used in early prod uction) Link, Governor lever-to-throttle leve r Link, Governor lever-to-throttle lever lever-to-throttle lever lever-to-throttle lever lever-to-throttle lever-to-throtte-to-throtte-to-throtte-to-throtte-to-throtte-to-throtte-to-throtte-to-throtte-to-throtte-to-throtte-to-throtte-to-throtte-to-throtte-to-throtte-to-throtte-t	51	33475	Pipe, Intake
53 792028 54 33476A 56 33477A 56 792075 Nut, Lock, 5/16-24 (Used in early prod uction) Link, Governor lever-to-throttle leve r Link, Governor lever-to-throttle lever lever-to-throttle lever lever-to-throttle lever lever-to-throttle lever-to-throtte-to-throtte-to-throtte-to-throtte-to-throtte-to-throtte-to-throtte-to-throtte-to-throtte-to-throtte-to-throtte-to-throtte-to-throtte-to-throtte-to-throtte-t	52	650378	Screw, Torx T-30, 5/16-18 x 1-1/8"
54 33476A 55 33477A 56 792075 57 33478 57 33478 58 11, Governor lever-to-throttle leve r 57 33478 58 31963 59 31964 60 650518 61 30312 62 650544 63 7975 64 31965 65 34456 66 53 34456 66 53 34456 67 31966 68 650597 69 33982 70 650591 71 33099 72 32599 70 650591 71 33099 72 32599 73 65066 74 32579 75 650561 76 650592 77 A 730201 77 610967 78 650591 79 610906 79 610906 79 610906 79 610906 79 610906 79 610906 79 610906 79 610906 70 650591 71 650591 72 32579 73 65066 74 32579 75 650561 76 650592 77 A 730201 77 610967 78 650594 79 610906 79 61090	53	792028	
55 33477A			
56 792075			·
57 33478 57A 33983 58 31963 Link, Governor lever-to-throttle leve r 58 31963 Lever, Governor lever 60 650518 Clamp, Governor lever 10 6505518 Lockwasher, No. 10 E.T. 61 30312 Screw, 10-32 x 1/2" 62 650544 Screw, 10-32 x 1/2" 63 7975 Nut, 10-24 Plate, Governor spring 65 34456 Lever Assy., Control 67 31966 Bushing, Governor lever 68 650597 Screw, 10-24 x 5/8" 69 33982 70 650591 Screw, 10-24 x 2" 71 33099 72 32599 70 67 Ring (Incl. in 251) 73 650666 Washer, Lock 74 32579 Baffle, Blower housing 75 650561 Screw, 14-20 x 5/8" 86 650592 Key, Flywheel 76 650594 Nut, Flywheel 77 610967 Ring (Wring gear) Nut, Flywheel Ring Governor Nut, Flywheel Ring Governor Nut, Flywheel Ring Governor Nut, Flywheel Solid State Magneto (Incl. 158 thru 1 61) Screw, 14-20 x 7/16" Sc			·
57A 33983			
58 31963 59 31964 Clamp, Governor lever 60 650518 Lockwasher, No. 10 E.T. 61 30312 Screw, 10-32 x 1/2" 62 650544 Screw, 10-32 x 1/2" Nut, 10-24 Flate, Governor spring Lever Assy., Control Bushing, Governor lever 63 650597 Screw, 10-24 x 5/8" Spring, Governor lever 64 650591 Screw, 10-24 x 5/8" Spring, Governor 650591 Screw, 10-24 x 5/8" Spring, Governor 70 650591 Screw, 10-24 x 2" Spring, Governor Screw, 10-24 x 5/8" Screw, 10-24 x 5/8" Spring, Governor Screw, 10-24 x 5/8" Spring, Governor Screw, 10-24 x 5/8" Screw, 10-24 x 5/8" Spring, Governor Screw, 10-24 x 5/8" Screw, 10-24 x 5/8" Screw, 10-24 x 5/8" Screw, 10-24 x 2" Spring, Governor Screw, 10-24 x 5/8" Screw, 14-20 x 3/4" Extension, Blower housing Screw, 1/4-20 x 3/4" Screw, 1/4-20 x 3/4" Screw, 1/4-20 x 3/4" Screw, 1/4-20 x 7/16" Screw, 1/4-20 x 7/16" Screw, 1/4-20 x 7/16" Screw, 1/4-20 x 7/16" Tube, Push rod "O" Ring (Also Incl. in 251)			•
59 31964 60 650518			·
60 650518 61 30312 62 650544 Screw, 10-32 x 1/2" 63 7975 Nut, 10-24 64 31965 65 34456 Lever Assy., Control 67 31966 Bushing, Governor lever 68 650597 Screw, 10-24 x 5/8" 69 33982 70 650591 Screw, 10-24 x 2" 71 33099 72 32599 "O" Ring (Incl. in 251) 73 650666 Washer, Lock 74 32579 Baffle, Blower housing 75 650561 Screw, 14-20 x 5/8" 76 650592 Key, Flywheel 77A 730201 Trigger Pin Kit (Use as required) Flywheel (w/ring gear) Nut, Flywheel Solid State Magneto (Incl. 158 thru 1 61) Screw, 14-20 x 3/4" 81 33479 Screw, 14-20 x 3/4" 81 33479 Screw, 14-20 x 3/4" 81 33479 Screw, 14-20 x 3/4"			
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76 650592 Key, Flywheel 77A 730201 Trigger Pin Kit (Use as required) 77 610967 Flywheel (w/ring gear) 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 83 650751 Screw, 1/4-20 x 7/16" 84 34314B Blower Hsg.(Incl.218A,219)(For elec.s tarter) 85 8274 Washer, Lock 86 650595 Screw, 5/16-24 x 3/8" 86A 650624 Screw, 5/16-24 x 9/16" 87 650752 Screw, 1/4-20 x 7/16" 88 35475 Tube, Push rod 89 33481 * "O" Ring (Also Incl. in 251)	74	32579	Baffle, Blower housing
77A 730201 Trigger Pin Kit (Use as required) 77 610967 Flywheel (w/ring gear) 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 83 650751 Screw, 1/4-20 x 7/16" 84 34314B Blower Hsg.(Incl.218A,219)(For elec.s tarter) 85 8274 Washer, Lock 86 650595 Screw, 5/16-24 x 3/8" 86A 650624 Screw, 5/16-24 x 9/16" 87 650752 Screw, 1/4-20 x 7/16" 88 35475 Tube, Push rod 89 33481 * "O" Ring (Also Incl. in 251)	75	650561	Screw, 1/4-20 x 5/8"
Flywheel (w/ring gear) 78 650594 79 610906 80 650661 81 33479 83 650751 84 34314B 85 8274 86 650595 86 650595 87 650752 88 35475 89 33481 Flywheel (w/ring gear) Nut, Flywheel Solid State Magneto (Incl. 158 thru 1 61) Screw, 1/4-20 x 3/4" Extension, Blower housing Screw, 1/4-20 x 7/16" Screw, 1/4-20 x 7/16" Washer, Lock Screw, 5/16-24 x 3/8" Screw, 5/16-24 x 9/16" Screw, 1/4-20 x 7/16" Tube, Push rod * "O" Ring (Also Incl. in 251)	76	650592	Key, Flywheel
Flywheel (w/ring gear) 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 83 650751 Screw, 1/4-20 x 7/16" 84 34314B Blower Hsg.(Incl.218A,219)(For elec.s tarter) 85 8274 Washer, Lock 86 650595 Screw, 5/16-24 x 3/8" 86A 650624 Screw, 5/16-24 x 9/16" 87 650752 Screw, 1/4-20 x 7/16" 88 35475 Tube, Push rod * "O" Ring (Also Incl. in 251)	77A	730201	Trigger Pin Kit (Use as required)
79 610906 Solid State Magneto (Incl. 158 thru 1 61) 80 650661 Screw, 1/4-20 x 3/4" 81 33479 Extension, Blower housing 83 650751 Screw, 1/4-20 x 7/16" 84 34314B Blower Hsg.(Incl.218A,219)(For elec.s tarter) 85 8274 Washer, Lock 86 650595 Screw, 5/16-24 x 3/8" 86A 650624 Screw, 5/16-24 x 9/16" 87 650752 Screw, 1/4-20 x 7/16" 88 35475 Tube, Push rod 89 33481 * "O" Ring (Also Incl. in 251)	77	610967	Flywheel (w/ring gear)
80 650661 Screw, 1/4-20 x 3/4" 81 33479 Extension, Blower housing 83 650751 Screw, 1/4-20 x 7/16" 84 34314B Blower Hsg.(Incl.218A,219)(For elec.s tarter) 85 8274 Washer, Lock 86 650595 Screw, 5/16-24 x 3/8" 86A 650624 Screw, 5/16-24 x 9/16" 87 650752 Screw, 1/4-20 x 7/16" 88 35475 Tube, Push rod 89 33481 * "O" Ring (Also Incl. in 251)	78	650594	Nut, Flywheel
80 650661 Screw, 1/4-20 x 3/4" 81 33479 Extension, Blower housing 83 650751 Screw, 1/4-20 x 7/16" 84 34314B Blower Hsg.(Incl.218A,219)(For elec.s tarter) 85 8274 Washer, Lock 86 650595 Screw, 5/16-24 x 3/8" 86A 650624 Screw, 5/16-24 x 9/16" 87 650752 Screw, 1/4-20 x 7/16" 88 35475 Tube, Push rod 89 33481 * "O" Ring (Also Incl. in 251)	79	610906	Solid State Magneto (Incl. 158 thru 1 61)
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87 650752 Screw, 1/4-20 x 7/16" 88 35475 Tube, Push rod 89 33481 * "O" Ring (Also Incl. in 251)			
88 35475 Tube, Push rod 89 33481 * "O" Ring (Also Incl. in 251)			·
89 33481 * "O" Ring (Also Incl. in 251)			·
90 34754 Housing, Rocker arm			
	90	34734	nousing, rocker aim

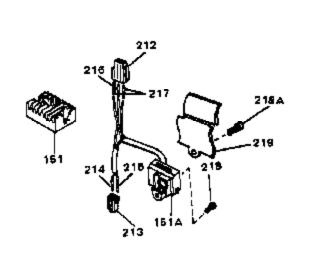
	Dowt Ni week or	١.,	Description
	Part Number C 33013	λίλ	Description Cover Starter hubble
			Cover, Starter bubble
	650701		Screw, 8-18 x 7/16"
	8345		Washer, Flat * "O" Ping (Alaa Ingl. in 251)
	33484		* "O" Ring (Also Incl. in 251)
	650168		Washer, Flat
	32610A		Screw, 1/4-20 x 29/32"
	33485		Arm, Rocker
	33486		Ring, Retaining
	650755		Screw, 1/4-20 x 3/4"
	650864		Nut, Hex, 1/4-20
101	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
	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
	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
147	792028		Screw, 5/16-18 x 7/8"
	650399		Screw, 10-32 x 5/8"
	610983		Stator Plate Assy. (w/exciter coil)
	31971		* Gasket, Shim (.004/.005 thick) NOTE: Determine the gap
100	31971		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
100	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
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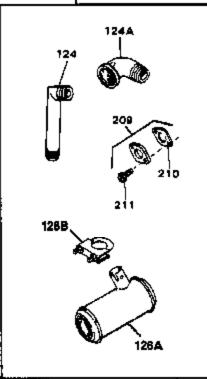
Ref #	Part Number	Qty	Description
157	32031		* Spacer, Steel (.010 thick) NOTE: Determine the gap between the cover and the machined surface on the cylinder, which can be from .001" up to .007", in which case no shim gaskets will be required. Use of gaskets must be limited to a combined total of .010" thick. Steel spacersmust be used as re
158	610118		Cover, Spark plug
159	610750		Grommet, Lead wire
160	610408		Nut, 8-32
	610908		Terminal, Female
	33356		Terminal
	650760		Screw, 8-32 x 3/8"
	28545		Grommet, Plastic
	650890		Washer, Lock
	26073		Washer, Flat
	32039		Switch, Stop
	33993A		Dipstick (Incl. 190)
	33590		"O" Ring
	33992A		Tube, Oil filler
	29443		Clip, Wire
	34768		Decal, Name
	34346		Decal, Instruction
	31752 632024		Decal, Air cleaner
	632221		Valve, Seat & Spring Assy.
241	032221		Carburetor (Incl. 54 & 246) (Refer to Division 5, Section A, page 160 for breakdown) (Refer to Division 5, Section D for breakdown)
250	33516G		* Gasket Set (Incl. items marked *)
	35075		"O" Ring Kit (Incl. Nos. items marked +)

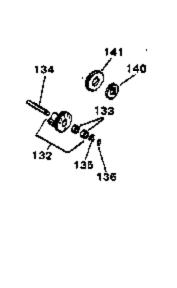
ILLUSTRATION SHOWS TYPICAL PARTS ONLY. ORDER BY PART NUMBER. PARTS NOT LISTED ARE SUPPLIED BY CEM.

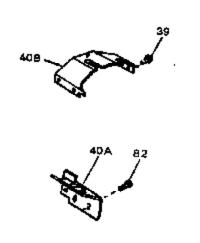
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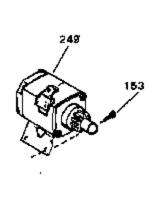


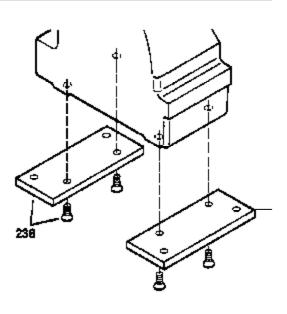






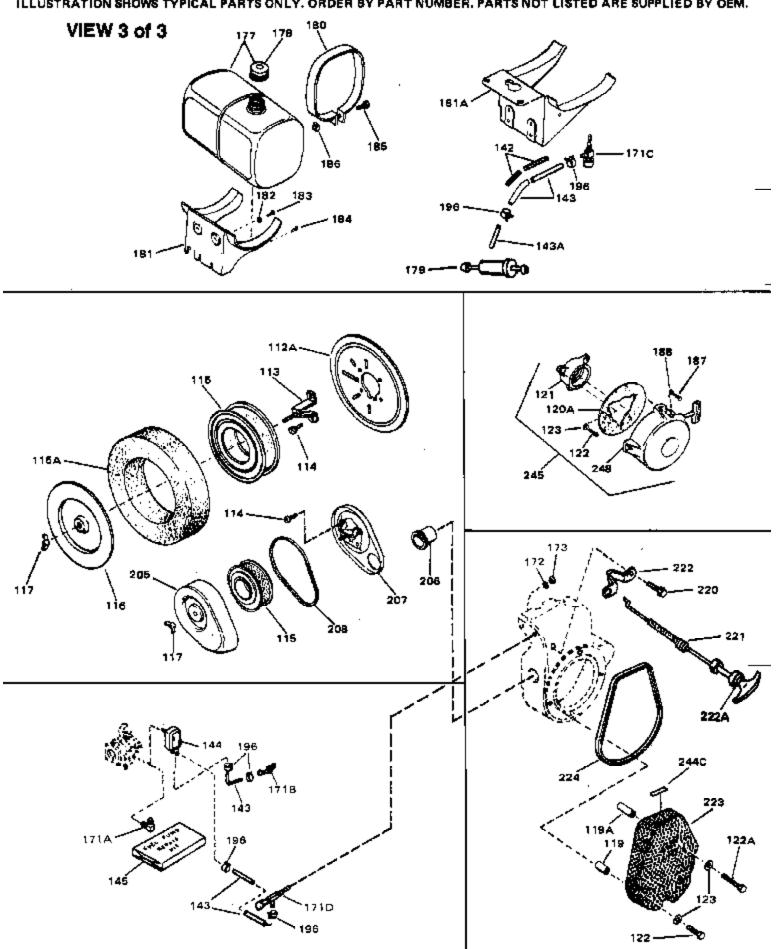






Ref #	Part Number Qty	Description
39	650736	Screw, 10-16 x 3/8"
126A	35731	Muffler (Incl. 126B)
141		Gear, Counterbalance weight (Straight teeth) (For replacement see Ref. 132. Order correct kit for your enginemodel number.)
153	792028	Screw, 5/16-18 x 7/8"(Use w/32817 str .motor)
153	650781	Screw,5/16-18 x 11/16"(Use w/33835 st r.motor)
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.



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)
	34392A		Pump, Impulse fuel
	33010		Repair Kit, Impulse fuel pump
	29683		Valve, Fuel strainer & shut-off
	28566		Fitting, Fuel line
	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
183	650786		Screw, 1/4-20 x 5/8"
184	650785		Screw, 5/16-18 x 5/8"
185	650488		Screw, 1/4-20 x 1-1/4"
186	650456		Nut, Lock
196	26460		Clamp, Fuel line (Use as required)
245	730134		Rewind Starter Kit (Incl.120A, 121, 122, 187, 188 & 248)
			(Use as required)