

Ref #	Part Number	Qtv	Description
2 2 2 2 2 4	33823A 31927 28483 9556 28534 27652 33397A		Cylinder (Incl. 2, 4 & 33) (3-5/16" B ore) 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 31931 31932 31928 34508 34509 34510 32001C 32002B 32003B 31919 32004 32005 32006 33093A 34383 34384 32077 26073 28264 33470 33472 33471 33505 33645 33506 33646 33507 33508 34410 33509 33510 33473 650745 35479 30590A 31948 31956B		to the complete the repair. Pin, Crankshaft gear Gear, Crankshaft (Straight) Bearing, Tapered roller Cup, Bearing Piston, Pin & Ring Set (Std.) (3-5/16 " Bore) Piston, Pin & Ring Set (.010" OS) Piston, Pin & Ring Set (.020" OS) Piston, Pin & Ring Set (.020" OS) Piston & Pin Ass'y. (Std.)(3-5/16")(I ncl.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 (.010" OS) Ring Set (.010" OS) Ring Set (.020" OS) Connecting Rod Assy.(Std.)(Incl.15, 1 6 & 17) Connecting Rod Assy.(.010" 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 (Std.) Intake Valve (Std.) Exhaust Valve (Std.) Exhaust Valve (1/32" OS) Exhaust Valve (1/32" OS) Spring, Valve Retainer & Cap Set, Keeper valve * "O" Ring (Exhaust 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
33 34 35 36 37	32685 31950 650451 650588 32425 32426 29193		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" Rod Assy., Governor Spacer, Governor rod Ring, Retaining

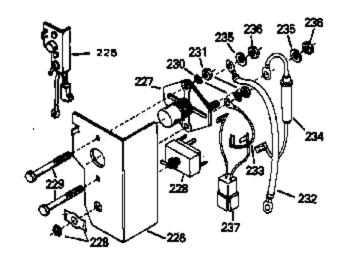
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65 31984A 66 28558 67 31966	63	7975	Nut, 10-24
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87 650752 Screw, 1/4-20 x 7/16" 88 35475 Tube, Push rod 89 33481 * "O" Ring (Also Incl. in 251) 90 34754 Housing, Rocker arm 91 33013 Cover, Starter bubble			·
88 35475 Tube, Push rod 89 33481 * "O" Ring (Also Incl. in 251) 90 34754 Housing, Rocker arm 91 33013 Cover, Starter bubble			
89 33481 * "O" Ring (Also Incl. in 251) 90 34754 Housing, Rocker arm 91 33013 Cover, Starter bubble			·
90 34754 Housing, Rocker arm 91 33013 Cover, Starter bubble			
91 33013 Cover, Starter bubble			
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92 650701 Screw, 8-18 x 7/16"			·
	92	000/01	SCIEW, 8-18 X //10

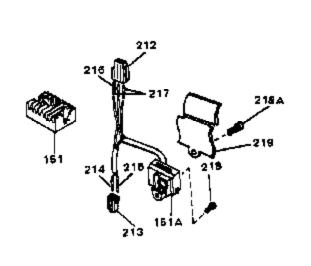
Def #	Dort Ni wala ar	O+ -	Description
	Part Number 33484	Ųτy	Description * "O" Ring (Also Incl. in 251)
	650168		Washer, Flat
	32610A		Screw, 1/4-20 x 29/32"
	33485		
	33486		Arm, Rocker
	650755		Ring, Retaining
			Screw, 1/4-20 x 3/4"
	650864 650756		Nut, Hex, 1/4-20 Stud, Rocker arm
	33487		* "O" 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
	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
	33840		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
1.47	650429		Sorow 5/16 19 v 2//"
	31971		Screw, 5/16-18 x 3/4" * Gasket, Shim (.004/.005 thick) NOTE: Determine the gap
133	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
			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
	3_33 .		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
4==	040440		•
	610118		Cover, Spark plug
	610750		Grommet, Lead wire
	610408		Nut, 8-32
164	33356		Terminal

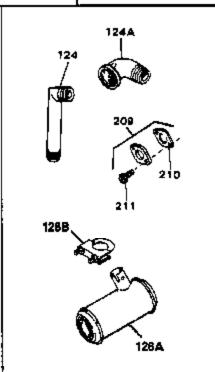
Ref #	Part Number Q	y Description
165	650760	Screw, 8-32 x 3/8"
166	28545	Grommet, Plastic
167	650890	Washer, Lock
167A	26073	Washer, Flat
168	32039	Switch, Stop
	27793	Clip, Conduit
	28942	Screw, 10-32 x 3/8"
189	33993A	Dipstick (Incl. 190)
190	33590	"O" Ring
	33992A	Tube, Oil filler
	29443	Clip, Wire
	550223	Decal, Name
	31752	Decal, Air cleaner
	34346	Decal, Instruction
	631687	Valve, Seat & Spring Assy.
247	631763	Carburetor (Incl. 54 & 246) (Refer to Division 5, Section A, page 124 for breakdown) (Refer to Division 5, Section D for breakdown)
	33516G 35075	* Gasket Set (Incl. items marked *) "O" Ring Kit (Incl. Nos. items marked +)

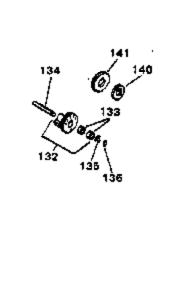
ILLUSTRATION SHOWS TYPICAL PARTS ONLY. ORDER BY PART NUMBER. PARTS NOT LISTED ARE SUPPLIED BY CEM.

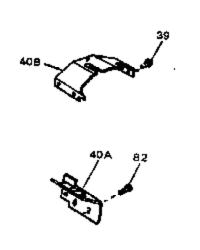
VIEW 2 of 3

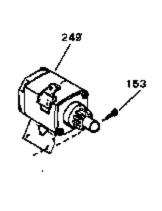


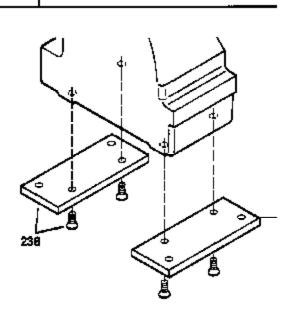






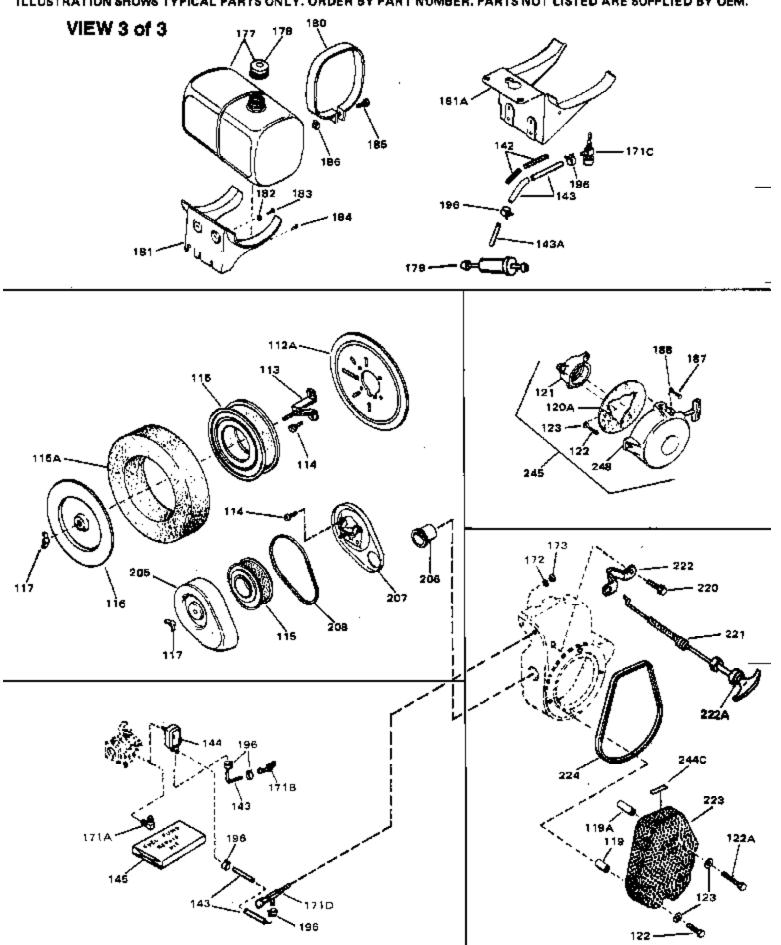






Ref #	Part Number	Qty	Description
	650736	۵.,	Screw, 10-16 x 3/8"
	30063		Screw, 1/4-20 x 1/2"
	35731		Muffler (Incl. 126B)
141			Gear, Counterbalance weight (Straight teeth) (For replacement see Ref. 132. Order correct kit for your
			enginemodel number.)
150	650669		Screw, 5/16-18 x 1-1/4"
	650489		Screw, 1/4-20 x 5/8"
152	610896		Stator Plate Assy.
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
	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)
	30962		Fuel Line (Braided 32")(81 cm)(As req uired)
	33981		Pump, Impulse fuel
	33010		Repair Kit, Impulse fuel pump
	29683		Valve, Fuel strainer & shut-off
	32958		Fitting, Fuel pump
	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"
184	650785		Screw, 5/16-18 x 5/8"
185	650488		Screw, 1/4-20 x 1-1/4"
	650456		Nut, Lock
	26460		Clamp, Fuel line (Use as required)
245	730134		Rewind Starter Kit (Incl.120A, 121, 122, 187, 188 & 248)
			(Use as required)