

Ref #	Part Number	Qty	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 11A 11A 11A 11 11 11 12 13 13 13 14 14 14 15 16 17 18 19 20 21 21 22 22 22 23 24 25A 25 29 29 30 31	29783 34692 31932 31928 32238B 32240B 34511 34512 34513 31919 32241 32242 32243 33093A 34383 34384 32077 26073 28264 34752 33471 33505 33645 33506 33646 33507 33508 34410 33509 33510 34751 650745 35479 30590A 31948 31948		Pin, Crankshaft (Helical) Bearing, Tapered roller Cup, Bearing 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) Piston, Pin & Ring Set (Std.) (3-1/2" Bore) Piston, Pin & Ring Set (.010" OS) Piston, Pin & Ring Set (.020" OS) Ring, Piston pin retaining Ring Set (Std.) (3-1/2" Bore) Ring Set (.010" OS) Ring Set (.010" OS) Ring Set (.020" OS) Connecting Rod Assy.(.010" US)(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) (Helical) Lifter, Valve Rod, Push Intake Valve (Std.) Intake Valve (Std.) Exhaust Valve (Std.) Exhaust Valve (Std.) 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 Ass'y. (Helical) Washer, Flat Washer, Flat (Use with 35322 spool) Washer, Flat Flat Spool, Governor * Gasket, Cylinder cover
33 34 35 36 37	32580A 31950 650451 650588 32425 32426 29193		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

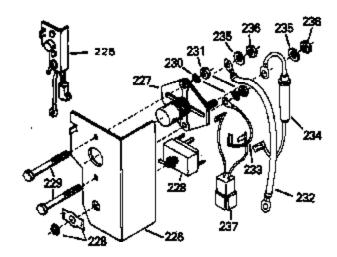
D-f //	Dord M. work on	Description
	Part Number Qty	
	650128	Screw, 10-24 x 1/2"
	34225A	* Gasket, Cylinder head
	34753	Head, Cylinder
	31980	Pulley, Starter
44	32046	Rope Assy., Starter
45	33657	Spark Plug (L-82C)
46	650690	Washer, Belleville
46A	650691	Washer, Flat
47	650692	Screw, 5/16-18 x 1-3/4"
	650746	Screw, 5/16-18 x 1-3/8"
	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" * Control Contr
	33476A	* Gasket, Carburetor
	34285	Baffle, Air extension
	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.
61	30312	Screw, 10-32 x 1/2"
62	650544	Screw, Torx T-25, 10-24 x 7/8"
63	7975	Nut, 10-24
64	31965	Plate, Governor spring
65	31984A	Lever Assy., Control
	28558	Washer, Wave
	31966	Bushing, Governor lever
	650597	Screw, 10-24 x 5/8"
	31967	Spring, Governor
	650591	Screw, 10-24 x 2"
	33099	Spring
	32599	"O" Ring (Incl. in 251)
	650666	Washer, Lock
	32579	
	650561	Baffle, Blower housing 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"
	650751	Screw, 1/4-20 x 7/16"
	34195B	Blower Hsg.(Incl.218,219)(For elec.st arter)
	8274	Washer, Lock
85A	8274	Washer, Lock
86	650595	Screw, 5/16-24 x 3/8"
86A	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
	33484	* "O" Ring (Also Incl. in 251)
	650168	Washer, Flat
	32610A	Screw, 1/4-20 x 29/32"
	33485	Arm, Rocker
31	ω.ω	AIII, INDONO

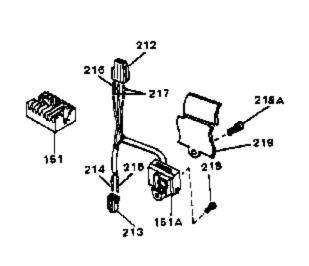
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98 99 100 101 102 103 104 105 106	Part Number 33486 650755 650864 650756 33487 33488 31958A 33489 33490 30102	Qty	Description Ring, Retaining Screw, 1/4-20 x 3/4" Nut, Hex, 1/4-20 Stud, Rocker arm * "O" Ring (Also Incl. in 251) Cover, Rocker arm * Gasket, Breather (Also Incl. in 251) Body Assy., Breather Tube, Breather * Screw, 10-32 x 5/8" (Also Incl. in 25 1)
108 111 114 115 117 119 120 122 123 125 146	650738 35471 650399 32008 650513 31992 33776 650680 27070 650590 32577		Screw, 1/4-20 x 5/8" * Gasket, Air cleaner Screw, 10-32 x 5/8" Element, Air cleaner Nut, Wing Spacer, Screen Screen, Pulley Screw, 1/4-20 x 1-1/2" Washer, Lock Nut, Conduit 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
	792028 31971		Screw, 5/16-18 x 7/8" * 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 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
159 160 161 169A 169 170A 170 189 190	610118 610750 610408 610908 27793 27793 28942 28942 33984A 33590 33893A 34768		Cover, Spark plug Grommet, Lead wire Nut, 8-32 Terminal, Female Clip, Conduit Clip, Conduit Screw, 10-32 x 3/8" Screw, 10-32 x 3/8" Dipstick (Incl. 190) "O" Ring Tube, Oil filler Decal, Name

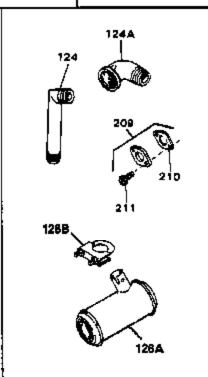
Ref #	Part Number	Qty	Description
244	34346		Decal, Instruction
246	631687		Valve, Seat & Spring Assy.
247	631754		Carburetor (Incl. 54 & 246) (Refer to Division 5, Section A, page 124 for breakdown)
	33516G 35075		* Gasket Set (Incl. items marked *) "O" Ring Kit (Incl. Nos. items marked +)

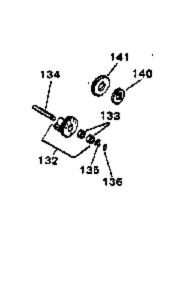
ILLUSTRATION SHOWS TYPICAL PARTS ONLY. ORDER BY PART NUMBER. PARTS NOT LISTED ARE SUPPLIED BY CEM.

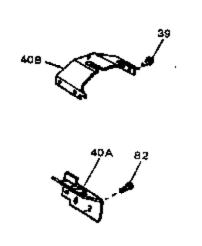
VIEW 2 of 3

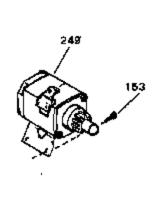


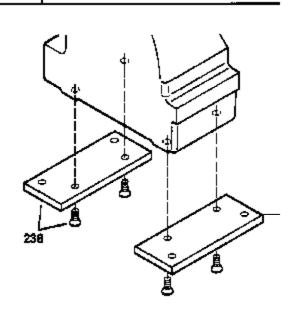






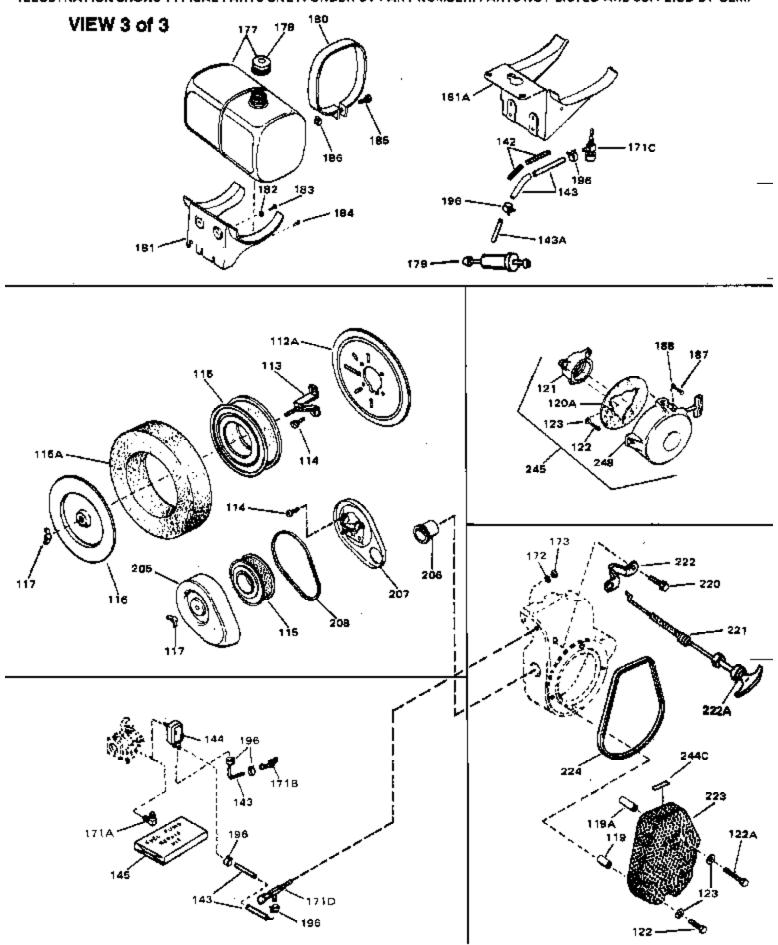






Ref#	Part Number	Qty	Description
39	650128		Screw, 10-24 x 1/2"
40B	34284		Cover, Cylinder head
40A	34283		Cover, Cylinder head
126A	35731		Muffler (Incl. 126B)
141			Gear, Counterbalance weight (Straight teeth) (For
			replacement see Ref. 132. Order correct kit for your
			enginemodel number.)
148	610902		Alt.Coil Ass'y. (Incl.162,163,163A) (20 amp)
	650521		Screw, 10-32 x 1-1/8"
	610996		Regulator (20 Amp) (Incl. 212 thru 21 8)
	792028		Screw, 5/16-18 x 7/8"(Use w/32817 str .motor)
	650781		Screw,5/16-18 x 11/16"(Use w/33835 st r.motor)
	610903		Connector, Flat
	610905		Terminal
	610904		Terminal
	730178		Ech.Adapter Kit (Incl.210 & 211)(As r equired)
	34102B		Gasket, Exhaust (Use as required)
	30196		Screw, 5/16-18 x 3/4" (Use as require d)
	610990		Connector, Male
	610921		Connector
	610922		Terminal
	610989		Terminal
	610992		Terminal, Female
	610991		Terminal, Female
	30063		Screw, 1/4-20 x 1/2"
	730212		Adapter Plate Kit (Optional) NOTE: If you are having
200	700212		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
	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)
	30705		Fuel Line (Braided 16")(41 cm)(As req uired)
143	30962		Fuel Line (Braided 32")(81 cm)(As req uired)
	35018		Pump, Impulse fuel
	33010		Repair Kit, Impulse fuel pump
	28566		Fitting, Fuel line
	410144B		Fuel Cap (White Plastic)(Std)(As requ ired)
178	34210		Fuel Cap (Red Plastic) (Spurt resistant, High profile) (Use as required)
			required)
	26460		Clamp, Fuel line (Use as required)
	34193		Cover, Air cleaner
	34194A		Tube, Air cleaner
	35473		Bracket, Air cleaner
	34197		Gasket, Air cleaner
245	730134		Rewind Starter Kit (Incl.120A, 121, 122, 187, 188 & 248) (Use as required)