

Ref #	Part Number	Qty	Description
2 2 2 2 2 4	33707A 31927 28483 9556 28534 27652 33425B		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 31931 31932 31928 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 31958		Pin, Crankshaft gear Gear, Crankshaft (Straight) Bearing, Tapered roller Cup, Bearing Piston, Pin & Ring Set (Std.) (3-1/2" Bore) 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 (.010" OS) Ring Set (.020" OS) 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.) Exhaust Valve (Std.) Exhaust Valve (Std.) Spring, Valve Retainer & Cap Set, Keeper valve * "O" Ring (Exhaust only) (Also Incl. in 251) Cap, Valve Governor Gear & Shaft Ass'y. (Straigh t) Washer, Flat Washer, Flat (Use with 35322 spool) Washer, 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

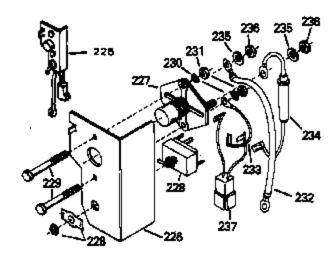
Screw, 10-32 x 5/16"	Ref #	Part Number Qty	Description
40 33495		•	
41 34/258A 42 33465 43 31980 44 32046 45 33657 46 650691 46 650690 47 650691 47 650746 48 730218 49 730218 49 730218 49 730218 49 730218 49 730218 40 730218 40 730218 40 730218 40 730218 40 730218 40 730218 40 730218 40 730218 40 730218 40 730218 40 730218 40 730218 40 730218 40 730218 40 730218 40 730218 40 730218 41 730205 51 33475 52 650378 53 750208 53 750208 53 7570208 53 750208 54 75 750208 55 75 750208 55 75 750208 55 75 750208 56 750575 56 750575 57 750575 58 750575 59 750575 59 750575 50 7505			
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43 31980 Pulley, Starter 44 32046 Rope Assy, Starter 45 33957 Spark Plug (L-82C) 46A 650691 Washer, Filat 46 650690 Washer, Filat 47 650692 Screw, 516-18 x 1-34" 47 650692 Screw, 516-18 x 1-34" 48 792035 Right Pulled Filat Pul			•
44 32046 45 33657 46 650691 47 650690 47 650690 47 650746 48 650746 49 730218 49 730218 49 730205 51 334175 52 650378 53 792028 53 792028 53 792028 53 792028 54 76576 76 76 78 78 78 78 78 78 78 78 78 78 78 78 78			
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46 650690 Washer, Belleville 47A 650746 Screw, 6716-18 x 1-3/8" 47 650692 Screw, 6716-18 x 1-3/8" 48 730219 Valve Guide Kit (Incl. 49) 49 792035 Ring, Retaining 50 33515A "Gasket, Intake pipe 51 33475 Pipe, Intake 52 650378 Screw, Tox T-30, 5/16-18 x 1-1/8" 53 792028 Screw, Tox T-30, 5/16-18 x 1-1/8" 53 379028 Screw, Tox T-30, 5/16-18 x 1-1/8" 53 3476A "Gasket, Carburetor 56 792075 Nut, Lock 6716-24 (Used in early prod uction) 57 33478 Link, Governor lever-to-throttle leve r 58 31983 Lever, Governor lever-to-throttle leve r 68 5393 19964 Clamp, Governor lever 69 650518 Lockwasher, No. 10 E.T. 61 30312 Screw, 10-23 x 1/2" 62 650544 Screw, Tox T-25, 10-24 x 7/8" 63 7975 Nut, 10-24 63 7975 Nut, 10-24 63 1996 Bushing, Governor lever 66 28558 Washer, Wave 67 31996 Bushing, Governor lever 68 650597 Screw, 10-24 x 258" 69 31997 Screw, 10-24 x 258" 70 650591 Screw, 10-24 x 258" 71 33099 Spring 72 25599 "O' Ring (Incl. in 251) 73 650566 Washer, Lock 74 32579 Baffle, Blower housing 75 650591 Screw, 10-20 x 268" 76 650592 Key, Flywheel 77 610909 Pipe Screw, 10-20 x 168" 78 650594 Nut, Flywheel 79 610906 Solf Screw, 10-20 x 268" 81 33479 Extension, Blower housing 8274 Washer, Lock 86 650595 Screw, 114-20 x 34" 87 850752 Screw, 114-20 x 116" 88 33475 Hush 90 34754 Housing, Rocker arm			• • • •
47A 660746 47 660692 5crew, 5/16-18 x 1-3/4" 48 730218 48 730218 49 7202035 50 33515A 50 33515A 51 33475 52 650378 52 650378 53 7502028 5crew, 5/16-18 x 7-10,8" 53 752028 5crew, 5/16-18 x 7-10,8" 53 752028 5crew, 5/16-18 x 7-10,8" 53 752028 5crew, 5/16-18 x 7-10,8" 54 33476A 55 334776A 56 752075 57 33478 58 1963 59 31963 59 31963 59 31964 50 650518 60 650518 61 30312 62 650544 63 7975 64 31965 65 31984A 66 22558 67 31996 68 650597 69 31997 70 650591 70 650591 71 33099 72 32599 70 70 650591 71 33099 72 32599 70 70 77 77 72007 70 77 72007 70 77 72007 70 77 72007 70 77 77 72007 70 77 77 72007 70 77 77 77 77 77 77 77 77 77 77 77 77 7			·
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\$ 392028 \$ Screw, \$ 5/16-18 x 7/8" \$ 433476A \$ 63464 \$ 63464 \$ 63476A \$ 64686A \$ 646	51	33475	Pipe, Intake
54 33476A 55 33477A 56 782075 Nut, Lock 5/16-24 (Used in early prod uction) 157 33478 Link, Governor lever-to-throttle leve r 158 31963 Lever, Governor 159 31964 Clamp, Governor lever 160 650518 Lockwasher, No. 10 E.T. 170 Screw, To. 132 x 1/2" 170 Screw, To. 132 x 1/2" 170 Screw, To. 17-25, 10-24 x 7/8" 171 3045 172 Screw, To. 17-25, 10-24 x 7/8" 172 Screw, To. 17-25, 10-24 x 7/8" 173 Screw, To. 17-25, 10-24 x 7/8" 174 Screw, To. 17-25, 10-24 x 7/8" 175 Nut, 10-24 176 Screw, To. 17-24 177 Screw, To. 17-25, 10-24 x 7/8" 177 Screw, To. 17-25, 10-24 x 7/8" 178 Screw, To. 17-24 x 5/8" 179 Screw, To. 17-24 x 5/8" 179 Screw, To. 17-24 x 5/8" 170 Screw, To. 17-24 x 5/8" 170 Screw, To. 17-24 x 5/8" 171 Screw, To. 17-24 x 5/8" 172 Screw, To. 17-24 x 5/8" 173 Screw, To. 17-24 x 5/8" 174 Screw, To. 17-24 x 5/8" 175 Screw, To. 17-24 x 5/8" 176 Sco. 17-25 Screw, To. 17-24 x 5/8" 177 Sco. 17-25 Screw, To. 17-24 x 5/8" 178 Sco. 17-25 Screw, To. 17-24 x 5/8" 179 Sco. 17-25 Screw, To. 17-24 x 5/8" 170 Sco. 17-25 Screw, To. 17-20 x 5/4" 170 Sco. 17-25 Screw, To. 17-20 x 5/4" 170 Sco. 17-25 Screw, To. 17-20 x 5/4" 170 Sc	52	650378	Screw, Torx T-30, 5/16-18 x 1-1/8"
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56 792075 57 33478 Link, Governor lever-to-throttle leve r Lever, Governor lever-to-throttle leve r Screw, 10-32 x 1/2" 62 650544 Screw, To-32 x 1/2" 63 19965 64 31965 65 31984A Lever Assy, Control Washer, Wave Bushing, Governor lever-to-throttle lever-to-throttle	55	33477A	Baffle, Air cleaner
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83 650751 Screw, 1/4-20 x 7/16" 84 33775A Blower Hsg.(Incl.218A,219)(For elec.s tarter) 85 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" 88 35475 Tube, Push rod 89 33481 * "O" Ring (Also Incl. in 251) 90 34754 Housing, Rocker arm	82	30063	Screw, 1/4-20 x 1/2"
84 33775A Blower Hsg.(Incl.218A,219)(For elec.s tarter) 85 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" 88 35475 Tube, Push rod 89 33481 * "O" Ring (Also Incl. in 251) 90 34754 Housing, Rocker arm			•
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54 55404 URING (AISO INCI. III 201)			
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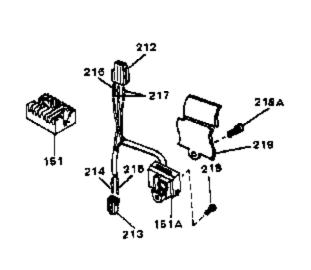
Ref #	Part Number Qty	Description
	650168	Washer, Flat
	32610A	Screw, 1/4-20 x 29/32"
	33485	Arm, Rocker
	33486	Ring, Retaining
	650755	
		Screw, 1/4-20 x 3/4"
	650864	Nut, Hex, 1/4-20
	650756	Stud, Rocker arm
	33487	* "O" Ring (Also Incl. in 251)
	33488	Cover, Rocker arm
104	31958A	* Gasket, Breather (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)
	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
127	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
4.47	70000	·
	792028	Screw, 5/16-18 x 7/8"
155	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
150	31972	* Cooket Shim (005/ 007 thick) NOTE: Determine the gan
100	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
107	32031	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
152	610118	Cover, Spark plug
	610750	Grommet, Lead wire
	610408	•
		Nut, 8-32
	610908	Terminal, Female
169A	27793	Clip, Conduit

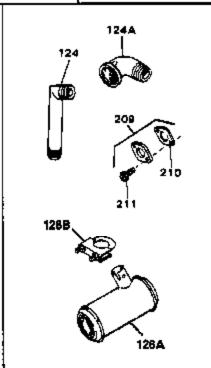
Ref #	Part Number 0	Oty Description
170	28942	Screw, 10-32 x 3/8"
171	29634	Fitting, Fuel line
189	33993A	Dipstick (Incl. 190)
190	33590	"O" Ring
191	33992A	Tube, Oil filler
244	34346	Decal, Instruction
244B	31752	Decal, Air cleaner
244A	550223	Decal, Name
244A	32676	Decal, Solid state
246	631687	Valve, Seat & Spring Assy.
247	631754	Carburetor (Incl. 54 & 246) (Refer to Division 5, Section A,
		page 124 for breakdown)
250	33516G	* Gasket Set (Incl. items marked *)
	35075	"O" Ring Kit (Incl. Nos. items marked +)
		,

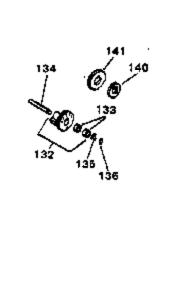
ILLUSTRATION SHOWS TYPICAL PARTS ONLY. ORDER BY PART NUMBER. PARTS NOT LISTED ARE SUPPLIED BY CEM.

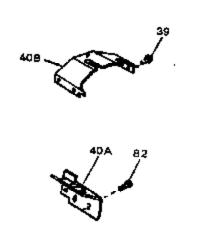
VIEW 2 of 3

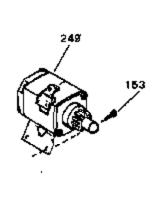


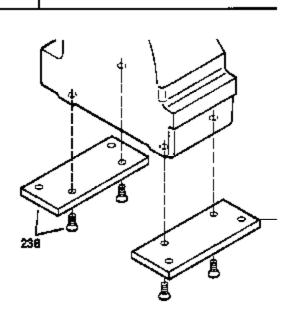






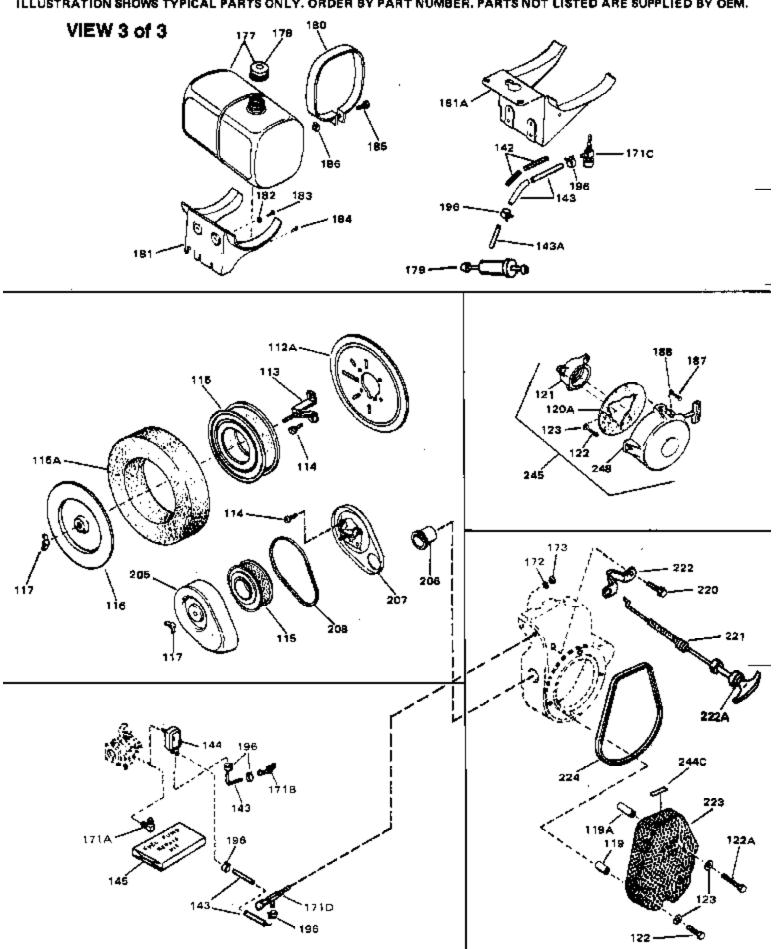






Ref #	Part Number	Qty	Description
82	650687 30063 35731		Screw, 10-32 x 5/16" Screw, 1/4-20 x 1/2" Muffler (Incl. 126B) Gear, Counterbalance weight (Straight teeth) (For replacement see Ref. 132. Order correct kit for your enginemodel number.)
149 151 153 153 162A 163A 163 209 210 211	610902 650521 610907A 792028 650781 610903 610905 610904 730178 34102B 30196 730212		Alt.Coil Ass'y. (Incl.162,163,163A) (20 amp) Screw, 10-32 x 1-1/8" Regulator (20 Amp)(Incl.151A, 154A & 218) 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) 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.



Dof #	Part Number	Oty Description
		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)
178	410144B	Fuel Cap (White Plastic)(Std)(As required)
178	34210	Fuel Cap (Red Plastic) (Spurt resistant, High profile) (Use as required)
	26460 730134	Clamp, Fuel line (Use as required) Rewind Starter Kit (Incl.120A, 121, 122, 187, 188 & 248) (Use as required)