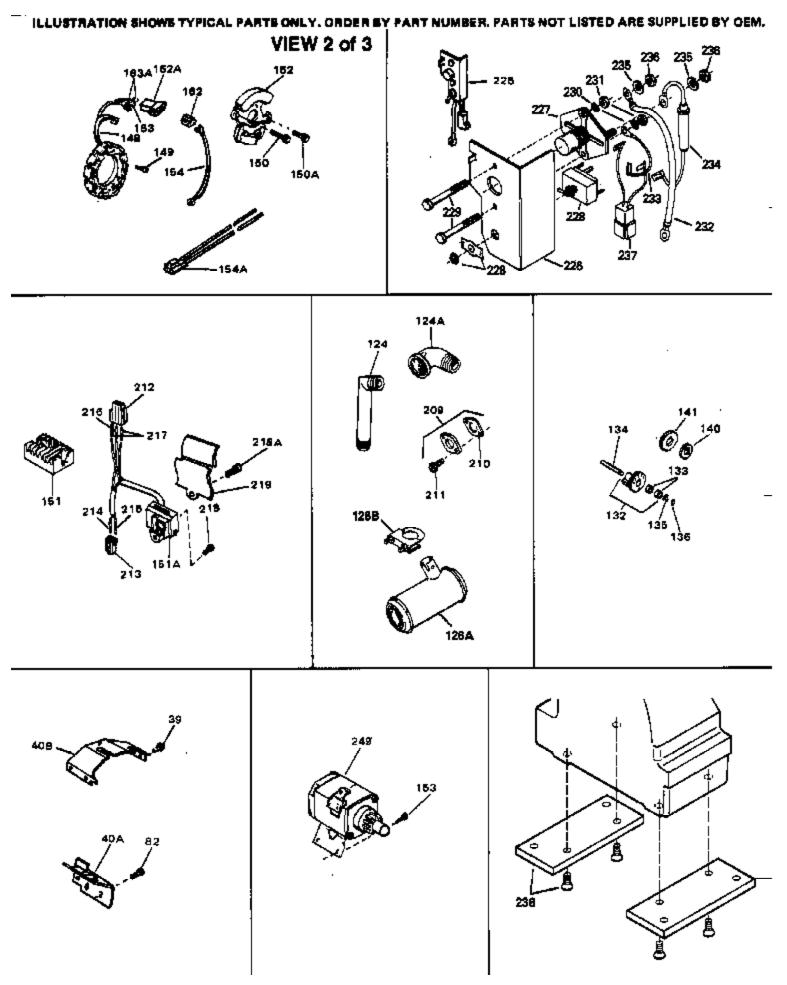


Ref #	Part Number	Otv	Description
2 2 2 2 2 4	33823A 31927 28483 9556 28534 27652 33397A		Cylinder (Incl. 2, 4 & 33) (3-5/16" B ore) Pipe Plug, 3/8-18 sq. head (Use as re quired) Pipe Plug (3/8-18 hex countersunk) (A s req.) Pipe Plug (3/4-14 sq.hd.)(As req.)(Bu y local) Pipe Plug (1/8-27 sq. hd.) (Use 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 34692 31932 31928 34508 34509 34510 32001C 32002B 32003B 31919 32004 32005 32006 33093A 34383 34384 32077 26073 28264 34752 33472 33471 33505 33645 33645 33506 33646 33507 33508 34410 33509 33510 34751 650745 35479 35322 31956B 32580A		Pin, Crankshaft gear Gear Crankshaft (Helical) Bearing, Tapered roller Cup, Bearing Piston, Pin & Ring Set (Std.) (3-5/16 " Bore) Piston, Pin & Ring Set (.020" OS) Piston & Pin Ass'y. (Std.)(3-5/16")(1 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 (Std.) (3-5/16" Bore) Ring Set (.010" OS) Ring Set (.020" OS) Connecting Rod Assy.(Std.)(Incl.15, 1 6 & 17) Connecting Rod Assy.(O10" US)(Incl.1 5,16,17) Connecting Rod Assy.(.020" US)(Incl.1 5,16,17) Bolt, Connecting rod Nut Assy. Camshaft (MCR) (Helical) Lifter, Valve Rod, Push Intake Valve (Std.) Exhaust Valve (Std.) Exhaust Valve (Std.) 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 Ass'y. (Helical) Washer, Flat Washer, Flat (Use with 35322 spool) Spool, Governor * Gasket, Cylinder cover
33 34 35 36 37 38	32580A 31950 650451 650588 32425 32426 29193 650736		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, 10-16 x 3/8"

	Part Number Qty	
	33495	Cover, Cylinder head
41	34225A	* Gasket, Cylinder head
42	33763	Head, Cylinder
45	35552	Spark Plug (RL-82C)
46A	650691	Washer, Flat
	650690	Washer, Belleville
	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"
	33476A	* Gasket, Carburetor
	33477A	Baffle, Air cleaner
	792075	Nut, Lock 5/16-24 (Used in early prod uction)
57	33478	Link, Governor lever-to-throttle leve r
58	31963	Lever, Governor
59	31964	Clamp, Governor lever
60	650518	Lockwasher, No. 10 E.T.
61	30312	Screw, 10-32 x 1/2"
	650544	Screw, Torx T-25, 10-24 x 7/8"
	7975	Nut, 10-24
	31965	Plate, Governor spring
	35559	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	Baffle, Blower housing
75	650561	Screw, 1/4-20 x 5/8"
76	650592	Key, Flywheel
77	610909	Flywheel
	730201	Trigger Pin Kit (Use as required)
	650594	Nut, Flywheel
	610906	Solid State Magneto (Incl. 158 thru 1 61)
	650661	Screw, 1/4-20 x 3/4"
	33479	Extension, Blower housing
	30063	
		Screw, 1/4-20 x 1/2"
	650751	Screw, 1/4-20 x 7/16"
	33775A	Blower Hsg.(Incl.218A,219)(For elec.s tarter)
	8274	Washer, Lock
	8274	Washer, Lock
	650595	Screw, 5/16-24 x 3/8"
	650595	Screw, 5/16-24 x 3/8"
07	650752	Screw, 1/4-20 x 7/16"
07	05.475	Tube, Push rod
	35475	
88	35475 33481	
88 89	33481	* "O" Ring (Also Incl. in 251)
88 89 90	33481 34754	* "O" Ring (Also Incl. in 251) Housing, Rocker arm
88 89 90 91	33481 34754 33013	* "O" Ring (Also Incl. in 251) Housing, Rocker arm Cover, Starter bubble
88 89 90 91 92	33481 34754 33013 650701	* "O" Ring (Also Incl. in 251) Housing, Rocker arm Cover, Starter bubble Screw, 8-18 x 7/16"
88 89 90 91 92 94	33481 34754 33013	* "O" Ring (Also Incl. in 251) Housing, Rocker arm Cover, Starter bubble

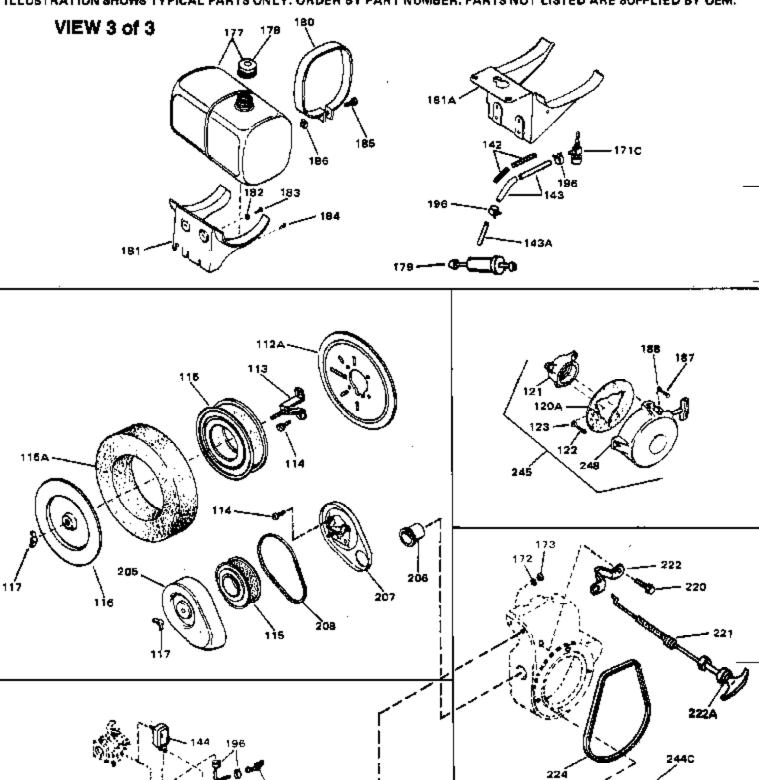
Rof #	Part Number	Otv	Description
	32610A	Qty	Screw, 1/4-20 x 29/32"
	33485		Arm, Rocker
	33486		
			Ring, Retaining
	650755		Screw, 1/4-20 x 3/4"
	650864		Nut, Hex, 1/4-20
	650756		Stud, Rocker arm
	33487		* "O" Ring (Also Incl. in 251)
	33488		Cover, Rocker arm
	31958A		* Gasket, Breather (Also Incl. in 251)
	33489		Body Assy., Breather
	33490		Tube, Breather
	30102		* Screw, 10-32 x 5/8" (Also Incl. in 25 1)
108	650738		Screw, 1/4-20 x 5/8"
111	35471		* Gasket, Air cleaner
114	650399		Screw, 10-32 x 5/8"
115	32008		Element, Air cleaner
117	650513		Nut, Wing
119	34379		Spacer, Screen
	650808		Screw, 1/4-28 x 1-3/4"
	27070		Washer, Lock
	32577		Cover, Cylinder NOTE: Determine the gap between the cover
	02011		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
			or to thick. Steel space should be used as required to en
147	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
450	04070		
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
157	52051		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
	610750		Grommet, Lead wire
	610408		Nut, 8-32
	610908		Terminal, Female
	27793		Clip, Conduit
	27793		
	28942		Screw, 10-32 x 3/8"
	29634		Fitting, Fuel line
	33764		Dipstick (Incl. 190)
	29985		"O" Ring
	33468		Tube Assy., Oil filler
192	29673		* Gasket, Oil filler tube

Ref # F	Part Number C	Aty Description
244 3	34346	Decal, Instruction
246 6	31687	Valve, Seat & Spring Assy.
247 6	332437	Carburetor (Incl. 54 & 246) (Refer to Division 5, Section A, page 204 for breakdown) (Refer to Division 5, Section D for breakdown)
250 3 251 3	33516G 35075	* Gasket Set (Incl. items marked *) "O" Ring Kit (Incl. Nos. items marked +)



Ref #	Part Number 0	Qty Description
39	650736	Screw, 10-16 x 3/8"
82	30063	Screw, 1/4-20 x 1/2"
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"
151A	610996	Regulator (20 Amp) (Incl. 212 thru 21 8)
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)
162A	610903	Connector, Flat
163	610904	Terminal
163A	610905	Terminal
209	730178	Ech.Adapter Kit (Incl.210 & 211)(As r equired)
210	34102B	Gasket, Exhaust (Use as required)
	30196	Screw, 5/16-18 x 3/4" (Use as require d)
	610990	Connector, Male
	610921	Connector
214	610922	Terminal
	610989	Terminal
	610992	Terminal, Female
	610991	Terminal, Female
	30063	Screw, 1/4-20 x 1/2"
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.



171B

1710 196

1714

145

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122A

119Á

122

112A 33777 Bracket, Air cleaner   113 33778 Bracket, Air cleaner   114 650399 Screw, 10-32 x 5/8"   115A 32906 Filter, Pre Air   115 32008 Element, Air cleaner   116 32904 Cover, Air cleaner   117 650513 Nut, Wing   119 34379 Spacer, Screen   119A 34378 Spacer, Screen   122A 650809 Screw, 1/4-28 x 2-9/16"   122 650808 Screw, 1/4-28 x 1-3/4"   123 27070 Washer, Lock   142 31778 Spring, Fuel line   142 31778 Spring, Fuel line   143 29774 Fuel Line (Braided 8.25")(21 cm)(As r equired)   143 30962 Fuel Line (Braided 16")(41 cm)(As req uired)   143 30962 Fuel Line (Braided 32")(81 cm)(As req uired)   144 33715 Pump, Impulse fuel	
114 650399 Screw, 10-32 x 5/8"   115A 32906 Filter, Pre Air   115 32008 Element, Air cleaner   116 32904 Cover, Air cleaner   117 650513 Nut, Wing   119 34379 Spacer, Screen   119A 34378 Spacer, Screen   122A 650809 Screw, 1/4-28 x 2-9/16"   122 650808 Screw, 1/4-28 x 1-3/4"   123 27070 Washer, Lock   142 31778 Spring, Fuel line   142 34148 Spring, Fuel line   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)	
115A 32906 Filter, Pre Air   115 32008 Element, Air cleaner   116 32904 Cover, Air cleaner   117 650513 Nut, Wing   119 34379 Spacer, Screen   119A 34378 Spacer, Screen   122A 650809 Screw, 1/4-28 x 2-9/16"   122 650808 Screw, 1/4-28 x 1-3/4"   123 27070 Washer, Lock   142 31778 Spring, Fuel line   142 34148 Spring, Fuel line   143 29774 Fuel Line (Braided 8.25")(21 cm)(As r equired)   143 30962 Fuel Line (Braided 32")(81 cm)(As req uired)	
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117 650513 Nut, Wing   119 34379 Spacer, Screen   119A 34378 Spacer, Screen   122A 650809 Screw, 1/4-28 x 2-9/16"   122 650808 Screw, 1/4-28 x 1-3/4"   123 27070 Washer, Lock   142 31778 Spring, Fuel line   142 34148 Spring, Fuel line   143 29774 Fuel Line (Braided 8.25")(21 cm)(As r equired)   143 30705 Fuel Line (Braided 32")(81 cm)(As req uired)   143 30962 Fuel Line (Braided 32")(81 cm)(As req uired)	
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122 650808 Screw, 1/4-28 x 1-3/4"   123 27070 Washer, Lock   142 31778 Spring, Fuel line   142 34148 Spring, Fuel line   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)	
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143 30962 Fuel Line (Braided 32")(81 cm)(As req uired)	
144_33715 Pump, Impulse fuel	
145 33010 Repair Kit, Impulse fuel pump	
178 410144B Fuel Cap (White Plastic)(Std)(As required)	
178 34210 Fuel Cap (Red Plastic) (Spurt resistant, High profile)	(Use as
required)	
196 26460 Clamp, Fuel line (Use as required)	
223 34376 Screen, Blower housing (Incl. 224)	
224 34377 Seal, Guard	
244C 34387 Decal, Instruction	
245 730134 Rewind Starter Kit (Incl.120A, 121, 122, 187, 188 & 2	248)
(Use as required)	,