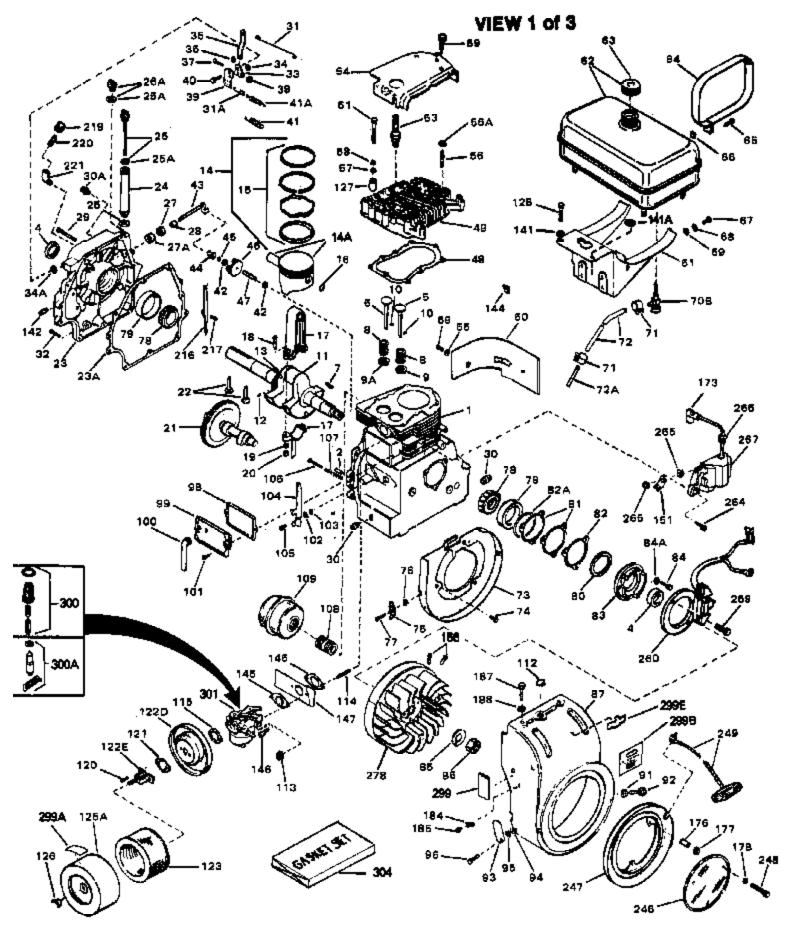
ILLUSTRATION SHOWS TYPICAL PARTS ONLY, ORDER BY PART NUMBER, PARTS NOT LISTED ARE SUPPLIED BY DEM.

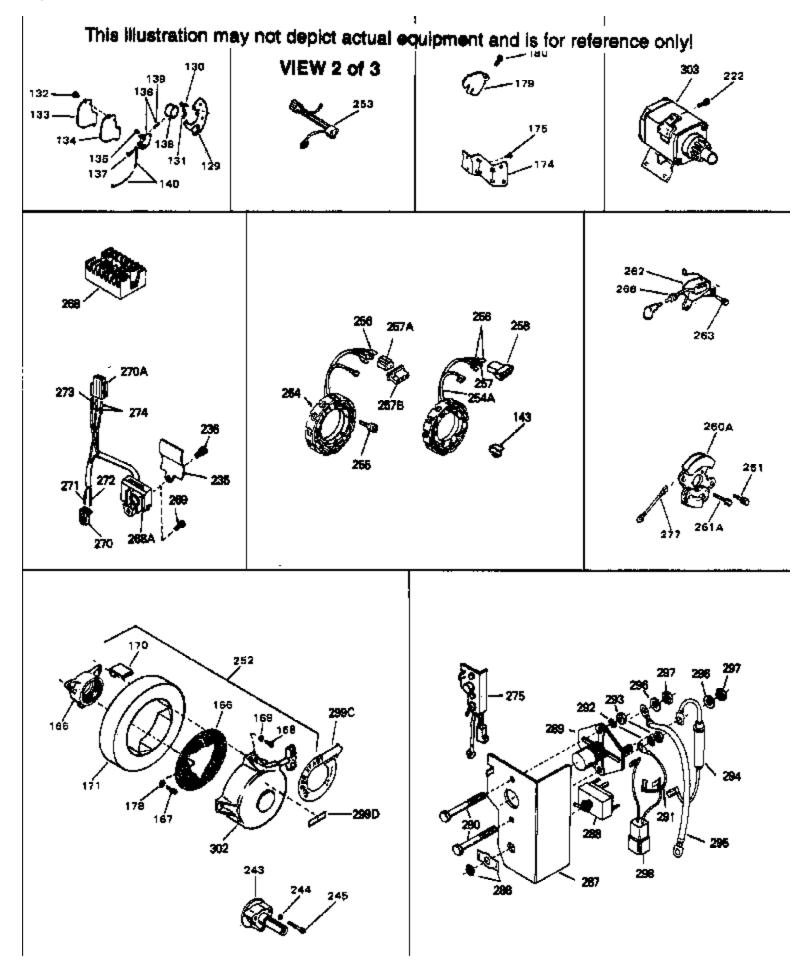


Ref #	Part Number C	ty Description
	33042	Cylinder (Incl. 2, 4, 30 & 47) (3-1/2 " Bore)
2	27652	Pin, Dowel
4	31950	Seal, Oil
5	31940	Intake Valve (Std.)
5	31941	Intake Valve (1/32" OS) (Incl. 9)
6	31942	Exhaust Valve (Std.)
6	31943	Exhaust Valve (1/32" OS) (Incl. 9)
	650592	Key, Flywheel
	31944	Spring, Valve
	31946	Cap, Lower valve spring (1/32" OS)
	31945	Cap, Lower valve spring (Std.)
	31945	Cap, Lower valve spring (Std.)
	31946	Cap, Lower valve spring (1/32" OS)
	20810	Pin, Valve spring retainer
	32291B	Crankshaft (Incl. 12, 13, 17, 78 & 79)
	29783	Pin, Crankshaft gear
	31931	Gear, Crankshaft
	32238B	Piston & Pin Ass'y. (Std.)(Incl.16)(3 -1/2")
	32239B	Piston & Pin Ass'y. (.010" OS) (Incl. 16)
	32240B	Piston & Pin Ass'y. (.020" OS) (Incl. 16)
	32621B 32622B	Piston & Pin Ass'y. (.030" OS) (Incl. 16) Piston & Pin Ass'y. (.040" OS) (Incl. 16)
	34511	Piston, Pin & Ring Set (Std.) (3-1/2" Bore)
	34512	Piston, Pin & Ring Set (.010" OS)
	34513	Piston, Pin & Ring Set (.020" OS)
	34524	Piston, Pin & Ring Set (.030" OS)
	34525	Piston, Pin & Ring Set (.040" OS)
	32241	Ring Set (Std.) (3-1/2" Bore)
	32242	Ring Set (.010" OS)
	32243	Ring Set (.020" OS)
	32625	Ring Set (.030" OS)
	32626	Ring Set (.040" OS)
	32336	Re-Ringing Set, Piston
	31919	Ring, Piston pin retaining
17	33093A	Connecting Rod Ass'y. (Std.) (Incl. 18, 19 & 20)
17	34383	Connecting Rod Assy.(.010" US)(Incl.1 8,19,20)
17	34384	Connecting Rod Assy.(.020" US)(Incl.1 8,19,20)
18	32077	Bolt, Connecting rod
	26073	Washer, Connecting rod
	28264	Nut Assy., Lock
	32150	Camshaft (MCR)
	31939	Lifter, Valve
	31956A	* Gasket, Cylinder cover
	32580A	Cover, Cylinder (Incl. 4, 28, 30, 34, & 43)
	29673	* Gasket, Oil fill
	33069	Dipstick (Incl. 25A)
	32426	Spacer, Governor rod
	650588 21027	Screw, 1/4-20 x 2"
	31927 31968	Oil Drain Plug
	650451	Link, Governor Screw, 1/4-20 x 1"
	31964	Clamp, Governor lever
	29193	Ring, Retaining
	31963	Lever, Governor adjusting
	650518	Lockwasher
	650544	Screw, 10-24 x 7/8"
	7975	Nut, 10-24
	31965	Plate, Governor spring
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		ty Description
40	30312	Screw, 10-32 x 1/2"
41	31967	Spring, Governor
42	30590A	Washer, Flat
43	32425	Rod Assy., Governor
	31948	Spool, Governor
	29193	Ring, Retaining
	31947	Gear Assy., Governor
	31930	Shaft, Mechanical Governor
	32246A	
		* Gasket, Cylinder head
	33034	
	650694A	Screw, 5/16-18 x 2" (Use as required)
	650711	Screw, 5/16-18 x 1-5/8" (Use as required)
	650628A	Screw, 5/16-18 x 2-3/8" (Use as requi red)
51	650695A	Screw, 5/16-18 x 2-1/4" (Use as requi red)
51	650714	Screw, 5/16-18 x 1-5/8" (Use as requi red)
51	650697A	Screw, 5/16-18 x 2-1/2" (Use as required)
	650692	Screw, 5/16-18 x 1-3/4" (Use as requi red)
	650603	Screw, $5/16-18 \times 5/8$ " (Use as require d)
	33636	Resistor Spark Plug (RJ-8C)
	34251	Resistor Spark Plug (RJ-17LM)
	33035	Cover, Cylinder head
	28537	Washer, Plain
	650691	Washer, Flat (Use as required)
	650690	Washer, Belleville (Use as required)
58	8274	Washer, Lock (Use as required)
59	650128	Screw, 10-24 x 1/2"
60	31976	Extension, Blower housing
	31978	Bracket, Fuel tank
	410144B	Fuel Cap (White Plastic)(Std.)(As req uired)
	34210	Fuel Cap (Red Plastic) (Spurt resistant, High profile) (Use as
00	34210	required)
		lequireu)
64	31979	Strap, Fuel tank
65	650451	Screw, 1/4-20 x 1"
	650456	Nut, Flange whiz-lock, 1/4-20
	650517	Screw, 1/4-20 x 27/32" (Use as required)
	650561	Screw, 1/4-20 x 5/8" (Use as required)
	30063	
		Screw, $1/4-20 \times 1/2$ " (Use as required)
	792028	Screw, 5/16-18 x 7/8" (Use as require d)
	8345	Washer, Flat
	8303	Lockwasher
	29683	Strainer & Shut-off, Fuel
71	26460	Clamp, Fuel line (Use as required)
72	29774	Fuel Line (Braided) (8.25") (Use as r equired)
72	30705	Fuel Line (Braided) (16") (Use as required)
	30962	Fuel Line (Braided) (32") (Use as req uired)
	30965	Fuel Line (Braided) (48") (Use as req uired)
	32579	Baffle, Blower housing
	650561	
		Screw, 1/4-20 x 5/8"
	31932	Bearing, Tapered roller
	31928	Cup, Bearing
80	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 gasket must be limited to a
		combined total of .010" thick. Steel spacersmust be used
		•
		aa i aquii au
		combined total of .010" thick. Steel spacersmust be used as required

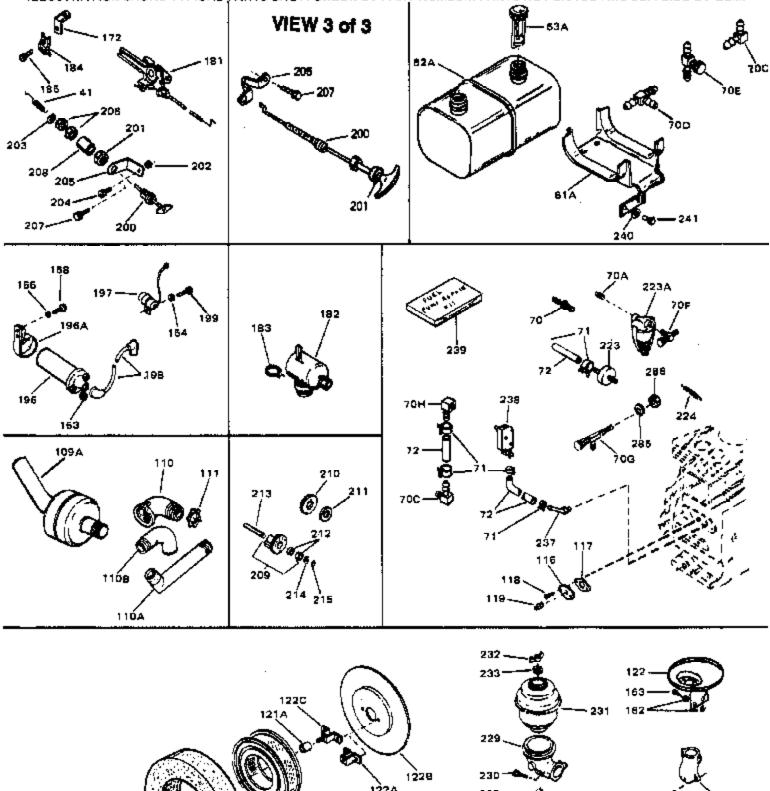
81 31971 * Gasket, Shim (.004/.005 thick) NOTE: Determine between the cover and the machined surface on th which can be from .001'up to .007' in which case i gaskets will be required. Use of gasket must be lin combined total of .010" thick. Steel spacersmust the as req 82A 32599 *O" Ring 82 31972 * Gasket, Shim (.005/.007 thick) NOTE: Determine between the cover and the machined surface on th which can be from .001'up to .007' in which case i gaskets will be required. Use of gasket must be lin combined total of .010" thick. Steel spacersmust the as req 83 32577 Cover, Cylinder NOTE: Determine the gap between and the machined surface on the cylinder which case i gaskets will be required. Use of gasket must be limited to a comt of .010" thick. Steel spacersmust to a cont of .010" up to .007" in which case i gaskets will be required. Use of gasket must be limited to a comt of .010" thick. Steel spacersmust be used as required. Use of gasket must be limited to a comt of .010" thick. Steel spacersmust be used as requeliminat 84 792028 Screw, 5/16-18 x 7/8" 84 6506594 Nut, Flywheel, 3/4-16 87 33044A Blower Hsg. (Incl.73) (For electric s tarter) 91 8274 Washer, Lock 92 650595 Screw, 5/16-24 x 3/8" 93 31958 * Gasket, Breather 99 31957 Breather Assy. 100 35350 Tube, Bre	e cylinder no shim mited to a be used e the gap e cylinder no shim mited to a be used n the cover n be from II be bined total
 82 31972 * Gasker, Shim (.005/.007 thick) NOTE: Determined between the cover and the machined surface on the which can be from .001"up to .007" in which case r gaskets will be required. Use of gasket must be lince total of .010" thick. Steel spacersmust the as req 83 32577 83 32577 Cover, Cylinder NOTE: Determine the gap betweet and the machined surface on the cylinder which case no shim gaskets will be required. Use of gasket must be limited to a comt of .010" thick. Steel spacersmust be used as requeliminat 84 792028 84 792028 860666 86 660594 86 660594 87 33044A 81 Bower Hsg. (Incl.73) (For electric s tarter) 91 8274 92 650595 8274 93 8274 94 8274 95 8274 96 650624 97 Screw, 5/16-24 x 3/8" 98 31958 * Gasket, Breather 99 31957 99 31957 91 Between the space to the space stress. 90 31957 91 Between the space stress. 92 650595 93 1957 94 1957 95 8250 95 8250 96 1950 97 10 253 97 20 28 20 	e cylinder no shim mited to a be used n the cover n be from II be pined total
and the machined surface on the cylinder which cas .001"up to .007" in which case no shim gaskets wi required. Use of gasket must be limited to a comb of .010" thick. Steel spacersmust be used as requ eliminat 84A 650679 Lockwasher, 5/16" (Use as required) 85 650666 Washer, Lock 86 650594 Nut, Flywheel, 3/4-16 87 33044A Blower Hsg. (Incl.73) (For electric s tarter) 91 8274 Washer, Lock 92 650595 Screw, 5/16-24 x 3/8" 95 8274 Washer, Lock 96 650624 Screw, 5/16-24 x 9/16" 98 31958 * Gasket, Breather 99 31957 Breather Assy. 100 35350 Tube, Breather 101 650128 Screw, 10-24 x 1/2"	n be from Il be bined total
84A 650679 Lockwasher, 5/16" (Use as required) 85 650666 Washer, Lock 86 650594 Nut, Flywheel, 3/4-16 87 33044A Blower Hsg. (Incl.73) (For electric s tarter) 91 8274 Washer, Lock 92 650595 Screw, 5/16-24 x 3/8" 95 8274 Washer, Lock 96 650624 Screw, 5/16-24 x 9/16" 98 31958 * Gasket, Breather 99 31957 Breather Assy. 100 35350 Tube, Breather 101 650128 Screw, 10-24 x 1/2"	
85 650666 Washer, Lock 86 650594 Nut, Flywheel, 3/4-16 87 33044A Blower Hsg. (Incl.73) (For electric s tarter) 91 8274 Washer, Lock 92 650595 Screw, 5/16-24 x 3/8" 95 8274 Washer, Lock 96 650624 Screw, 5/16-24 x 9/16" 98 31958 * Gasket, Breather 99 31957 Breather Assy. 100 35350 Tube, Breather 101 650128 Screw, 10-24 x 1/2"	
87 33044A Blower Hsg. (Incl.73) (For electric s tarter) 91 8274 Washer, Lock 92 650595 Screw, 5/16-24 x 3/8" 95 8274 Washer, Lock 96 650624 Screw, 5/16-24 x 9/16" 98 31958 * Gasket, Breather 99 31957 Breather Assy. 100 35350 Tube, Breather 101 650128 Screw, 10-24 x 1/2"	
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95 8274 Washer, Lock 96 650624 Screw, 5/16-24 x 9/16" 98 31958 * Gasket, Breather 99 31957 Breather Assy. 100 35350 Tube, Breather 101 650128 Screw, 10-24 x 1/2"	
96 650624 Screw, 5/16-24 x 9/16" 98 31958 * Gasket, Breather 99 31957 Breather Assy. 100 35350 Tube, Breather 101 650128 Screw, 10-24 x 1/2"	
98 31958 * Gasket, Breather 99 31957 Breather Assy. 100 35350 Tube, Breather 101 650128 Screw, 10-24 x 1/2"	
100 35350 Tube, Breather 101 650128 Screw, 10-24 x 1/2"	
101 650128 Screw, 10-24 x 1/2"	
103 31966 Bushing, Control lever	
104 31984A Lever, Control	
105 650597 Screw, 10-24 x 5/8"	
106 650591 Screw, 10-24 x 2"	
107 33099 Spring 109 32043B Muffler	
112 33038 Plug, Button (Use as required)	
113 29752 Nut & Lockwasher Assy.	
114 650587 Stud, Carburetor	
115 27272 * Gasket, Air cleaner	
120 650399 Screw, 10-32 x 5/8"	
121 30767Spacer, Air cleaner122E 32376Bracket, Air cleaner	
122D 32378 Bracket, Air cleaner	
125A 32009 Cover, Air cleaner	
126 650513 Nut, Wing	
128 650713 Screw, 5/16-18 x 5/8" (Use as require d)	
128 650429 Screw, 5/16-18 x 3/4" (Use as require d) 128 792028 Screw, 5/16-18 x 7/8" (Use as require d)	
126 792026 Sciew, 5/16-16 x 7/8 (Use as required) 141A 8274 Lockwasher, Split (Use as required)	
141 26073 Uasher, Flat (Use as required)	
145 31960 * Gasket, Carburetor	
147 31959 Baffle, Air	

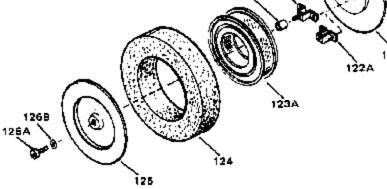
Ref #	Part Number Qty	/ Description
151	33356	Terminal, Ground
156	730201	Trigger Pin Kit (Use as required)
173	610118	Cover, Spark plug (Use as required)
176	31992	Spacer, Screen
177	8345	Washer, 1/4 plain (Use as required)
178	27070	Washer, Lock 1/4 E.T. (Use as require d)
178	650675	Washer, Flat 1/4 (Use as required)
184	27793	Clip, Conduit
185	28942	Screw, 10-32 x 3/8"
187	650713	Screw, 5/16-18 x 5/8"
188	26073	Washer, Flat
	33776	Screen, Starter pulley
247	31980	Pulley, Starter
	650680	Screw, 1/4-20 x 1-1/2"
	32046	Rope Assy., Starter (Use as required)
	650661	Screw, 1/4-20 x 3/4"
265	610408	Nut, Hex
266	610750	Grommet, Lead wire
267	610748	Solid State Magneto (Incl.151,173,265 ,266)
278	610746	Solid State Flywheel
299A	31752	Decal, Air cleaner
299B	550223	Decal, Name
299B	32676	Decal, Solid State
299	34346	Decal, Instruction
300	32411A	Valve, Seat, Spring & Gasket Assy.
301	631498	Carburetor (Incl. 145) (Refer to Division 5, Section A, page 94 for breakdown)
304	33237A	* Gasket Set (Incl. items marked *)

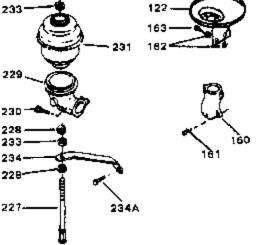


Ref #	Part Number	Qty Description
178	27070	Washer, Lock 1/4 E.T. (Use as require d)
178	650675	Washer, Flat 1/4 (Use as required)
180	650701	Screw, 8-18 x 7/16" (Use as required)
	792028	Screw, 5/16-18 x 7/8" (Use w/32817 st r.motor)
	650781	Screw,5/16-18 x 11/16"(Use w/33835 st r.motor)
235	34276	Plate, Cover (Use as required to cover regulator mounting hole in blower housing)
236	650736	Screw, 10-16 x 3/8" (Use as required)
252	730134	Rewind Starter Kit (Incl. 165, 166, 167, 168, 169 & 291) (Use as required)
253	33018	Harness Assy., Adapter (Use as requir ed)
254	610761	Alternator Coil (Solid State) (10 Amp) (Incl. Nos. 253, 256 & 257A)
255	650416	Screw, 10-32 x 1"
	610922	Terminal, Female
257B	610824	Flat Connector (Female terminals) (As req.)
257A	610819	Connector, Pyramid (For female termin als)
	610750	Grommet, Lead wire
	610749	Solid State Regulator (10 Amp)
	730198	Starter Switch Kit(Incl. 287-298) (As req.)
303	33835	Electric Starter Motor (12 Volt) NOTE: The 32817 and 33835 starter motors are used interchangeably on the se models. Refer to service numberstamped on end cap of motor, or on decal for identification. Refer to Division 5, Section D for breakdown.

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







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Ref #	Part Number	Qty	Description
41	31967		Spring, Governor
62A	31977		Fuel Tank (Incl. 63)
71	26460		Clamp, Fuel line (Use as required)
72	29774		Fuel Line (Braided) (8.25") (Use as r equired)
72	30705		Fuel Line (Braided) (16") (Use as req uired)
72	30962		Fuel Line (Braided) (32") (Use as req uired)
72	30965		Fuel Line (Braided) (48") (Use as req uired)
119	28534		Pipe Plug, 1/8-27 (Use as required)
119	9556		Plug, Pipe, 1/8-27 (Use as required)
123A	32008		Element, Air cleaner
172	31990		Bracket, Choke control
184	27793		Clip, Conduit
185	28942		Screw, 10-32 x 3/8"
237	32958		Fitting, Fuel
238	32959		Fuel Pump, Impulse
239	33010		Repair Kit, Impulse fuel pump
