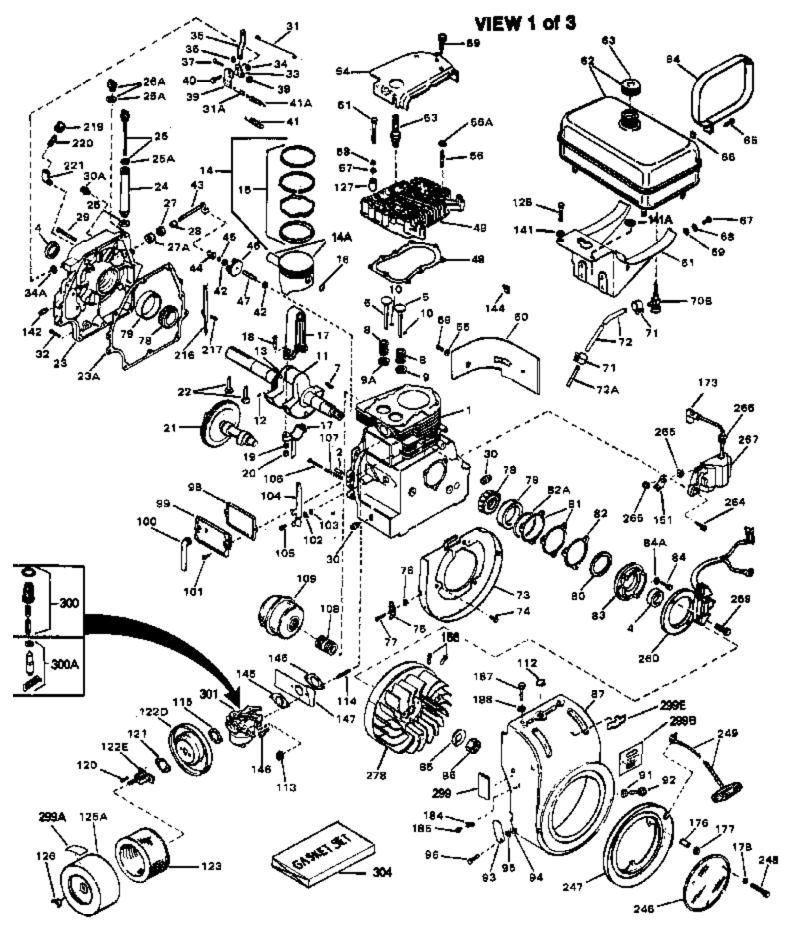
## ILLUSTRATION SHOWS TYPICAL PARTS ONLY, ORDER BY PART NUMBER, PARTS NOT LISTED ARE SUPPLIED BY DEM.

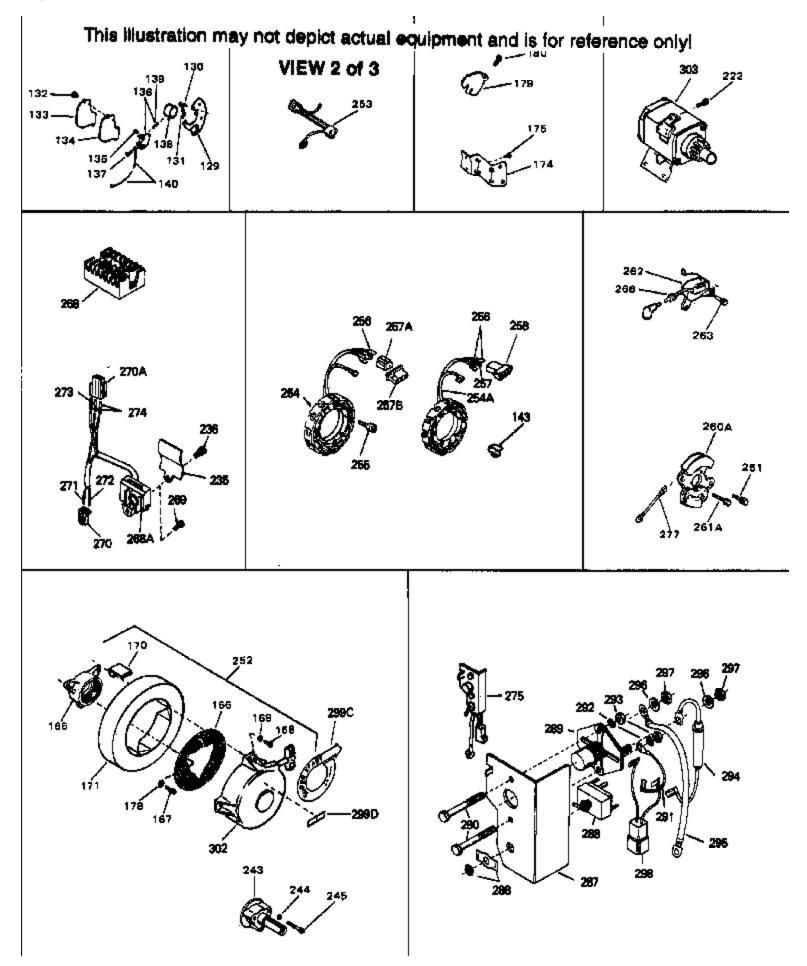


Ref # Part Number	Qty Description
1 33042	Cylinder (Incl. 2, 4, 30 & 47) (3-1/2 " Bore)
2 27652	Pin, Dowel
4 31950	Seal, Oil
5 31940	Intake Valve (Std.)
5 31941	Intake Valve (1/32" OS) (Incl. 9)
6 31942	Exhaust Valve (Std.)
6 31943	Exhaust Valve (1/32" OS) (Incl. 9)
7 650592	Key, Flywheel
8 31944	Spring, Valve
9 31946	Cap, Lower valve spring (1/32" OS)
9 31945	Cap, Lower valve spring (Std.)
9A 31945	Cap, Lower valve spring (Std.)
9A 31946	Cap, Lower valve spring (1/32" OS)
10 20810	Pin, Valve spring retainer
11 33390B	Crankshaft (Incl. 12, 13, 78 & 79)
12 29783	Pin, Crankshaft gear
13 31931	Gear, Crankshaft
14A 32238B	Piston & Pin Ass'y. (Std.)(Incl.16)(3 -1/2")
14A 32238B	Piston & Pin Ass'y. (.010" OS) (Incl. 16)
14A 32239B 14A 32240B	Piston & Pin Ass'y. (.010° CS) (incl. 16) Piston & Pin Ass'y. (.020" OS) (Incl. 16)
14A 32621B	Piston & Pin Ass'y. (.020" OS) (Incl. 16) Piston & Pin Ass'y. (.030" OS) (Incl. 16)
14A 32621B	Piston & Pin Ass'y. (.000 °CS) (incl. 10) Piston & Pin Ass'y. (.040" OS) (Incl. 16)
14 34511	Piston, Pin & Ring Set (Std.) (3-1/2" Bore)
14 34512	Piston, Pin & Ring Set (.010" OS)
14 34513	Piston, Pin & Ring Set (.020" OS)
14 34524	Piston, Pin & Ring Set (.030" OS)
14 34525	Piston, Pin & Ring Set (.040" OS)
15 32241	Ring Set (Std.) (3-1/2" Bore)
15 32242	Ring Set (.010" OS)
15 32243	Ring Set (.020" OS)
15 32625	Ring Set (.030" OS)
15 32626	Ring Set (.040" OS)
15 32336	Re-Ringing Set, Piston
16 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
19 26073	Washer, Connecting rod
20 28264	Nut Assy., Lock
21 32150	Camshaft (MCR)
22 31939	Lifter, Valve
23A 31956A	* Gasket, Cylinder cover
23 32580A	Cover, Cylinder (Incl. 4, 28, 30, 34, & 43)
24 33893A	Oil Fill Tube
25A 33590	"O" Ring
26 33984A	Dipstick (Incl. 25A)
28 32426	Spacer, Governor rod
29 650588	Screw, 1/4-20 x 2"
31 31968	Link, Governor
32 650451	Screw, 1/4-20 x 1"
33 31964	Clamp, Governor lever
34 29193	Ring, Retaining
35 31963	Lever, Governor adjusting
36 650518	Lockwasher
37 650544	Screw, 10-24 x 7/8"
38 7975	Nut, 10-24
39 31965	Plate, Governor spring

		Qty	Description
	30312		Screw, 10-32 x 1/2"
41	31967		Spring, Governor
42	30590A		Washer, Flat
43	32425		Rod Assy., Governor
44	31948		Spool, Governor
	29193		Ring, Retaining
	31947		Gear Assy., Governor
	31930		Shaft, Mechanical Governor
	32246A		* Gasket, Cylinder head
	33034		Head, Cylinder
	650694A		
			Screw, $5/16-18 \times 2"$ (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 required)
	650695A		Screw, 5/16-18 x 2-1/4" (Use as required)
	650714		Screw, 5/16-18 x 1-5/8" (Use as required)
	650697A		Screw, 5/16-18 x 2-1/2" (Use as required)
	650692		Screw, 5/16-18 x 1-3/4" (Use as required)
	650603		Screw, 5/16-18 x 5/8" (Use as require d)
	33636		Resistor Spark Plug (RJ-8C)
53	34251		Resistor Spark Plug (RJ-17LM)
54	33035		Cover, Cylinder head
55	28537		Washer, Plain
57	650691		Washer, Flat (Use as required)
	650690		Washer, Belleville (Use as required)
	8274		Washer, Lock (Use as required)
	650128		Screw, 10-24 x 1/2"
	31976		Extension, Blower housing
	410144B		Fuel Cap (White Plastic)(Std.)(As req uired)
	34210		Fuel Cap (Red Plastic) (Spurt resistant, High profile) (Use as
			required)
	0=0=1=		
	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 x 1/2" (Use as required )
	792028		Screw, 5/16-18 x 7/8" (Use as require d)
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)
73	31975		Baffle, Blower housing
74	650561		Screw, 1/4-20 x 5/8"
	28545		Grommet, Plastic
	650760		Screw, 8-32 x 3/8"
	31932		Bearing, Tapered roller
	31928		Cup, Bearing
	32031		Spacer, Steel (.010" thick) NOTE: Determine the gap
00			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
			as required

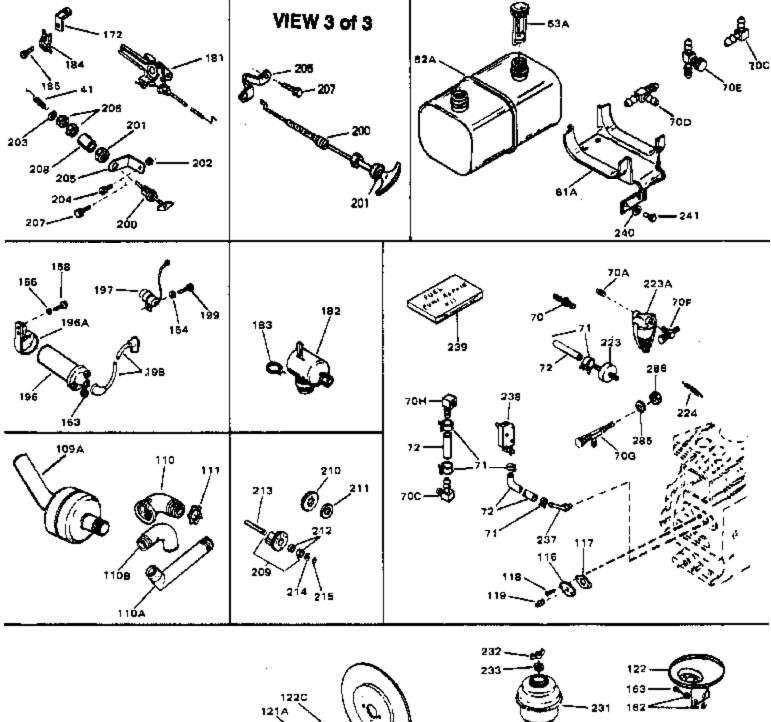
Ref # Part Number 81 31971	Qty Description * Gasket, Shim (.004/.005 thick) NOTE: Determine the gap
	between the cover and the machined surface on the cylinder which can be from .001"up to .007" in which case no shim gaskets will be required. Use of gasket must be limited to a combined total of .010" thick. Steel spacersmust be used as req
82 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 gasket must be limited to a combined total of .010" thick. Steel spacersmust be used as req
82A 32599 83 32577	"O" Ring 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 gasket must be limited to a combined total of .010" thick. Steel spacersmust be used as required to eliminat
84 792028 84A 650679	Screw, 5/16-18 x 7/8" Lockwasher, 5/16" (Use as required)
85 650666	Washer, Lock
86 650594	Nut, Flywheel, 3/4-16
87 33037	Blower Housing
91 8274 92 650595	Washer, Lock
92 000090 95 8274	Screw, 5/16-24 x 3/8" Washer, Lock
96 650595	Screw, 5/16-24 x 3/8"
98 31958	* Gasket, Breather
99 31957	Breather Assy.
100 35350	Tube, Breather
101 650128 102 28558	Screw, 10-24 x 1/2" Washer, Wave
102 20000	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 Ninala Extravet pipe
108 32042 112 33038	Nipple, Exhaust pipe Plug, Button (Use as required)
115 27272	* Gasket, Air cleaner
120 650399	Screw, 10-32 x 5/8"
121 30767	Spacer, Air cleaner
126 650513	Nut, Wing Screw $E^{1/6}$ 18 x $E^{0}$ (Line on require d)
128 650713 128 650429	Screw, 5/16-18 x 5/8" (Use as require d) Screw, 5/16-18 x 3/4" (Use as require d)
128 792028	Screw, $5/16-18 \times 7/8$ " (Use as require d)
141 26073	Washer, Flat (Use as required)
141A 8274	Lockwasher, Split (Use as required)
145 33263	* Gasket, Carburetor
146 650451 147 34061	Screw, 1/4-20 x 1" Baffle Air
151 610908	Baffle, Air Terminal, Female
156 730201	Trigger Pin Kit (Use as required)
173 610118	Cover, Spark plug (Use as required)
177 8345	Washer, 1/4 plain (Use as required)

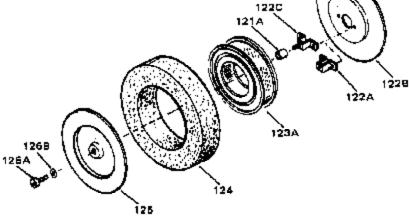
Ref #	Part Number Qty	Description
178	27070	Washer, Lock 1/4 E.T. (Use as require d)
178	650675	Washer, Flat 1/4 (Use as required)
184	27793	Clip, Conduit
185	28942	Screw, 10-32 x 3/8"
187	650713	Screw, 5/16-18 x 5/8"
188	26073	Washer, Flat
219	32154	Cap, Pipe
220	32438	Nipple, Pipe
249	32046	Rope Assy., Starter (Use as required)
259	650399	Screw, 10-32 x 5/8"
260	610965	Solid State Stator Plate Ass'y.
264	650661	Screw, 1/4-20 x 3/4"
265	610408	Nut, Hex
266	610750	Grommet, Lead wire
267	610906	Solid State Magneto (Incl.151,173,265,266)(20 Amp)
278	611000	Flywheel
299	34346	Decal, Instruction
299B	32730	Decal, Craftsman
300A	631021	Inlet Needle, Seat & Clip Assy.
301	631975	Carburetor (Incl. 145) (Refer to Division 5, Section A, page 150 for breakdown)
304	33237A	* Gasket Set (Incl. items marked *)

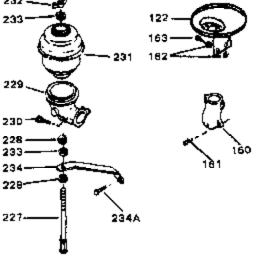


Ref #	Part Number Qty	Description
165	32048	Hub, Starter
166	32049	Screen, Starter hub
167	650516	Screw, 1/4-20 x 1-1/8"
168	650598	Screw, 1/4-28 x 3/4"
169	8345	Washer, Flat
170	31891	Bracket, Starter air cleaner
171	32050	Cleaner, Starter air
178	27070	Washer, Lock 1/4 E.T. (Use as require d)
178	650675	Washer, Flat 1/4 (Use as required)
180	650701	Screw, 8-18 x 7/16" (Use as required)
222	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)
	610824	Flat Connector (Female terminals) (As req.)
	610750	Grommet, Lead wire
	730198	Starter Switch Kit(Incl. 287-298) (As req.)
	590405	Rewind Starter (Refer to Division 5, Section C, page 24 for
		breakdown)

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







Ref #	Part Number (	Aty Description
41	31967	Spring, Governor
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)
122B	34071	Bracket, Air cleaner
122C	32907B	Bracket, Air cleaner
123A	32008	Element, Air cleaner
124	32906	Element, Pre-Air cleaner
125	32904	Cover, Pre-air cleaner
172	31990	Bracket, Choke control
184	27793	Clip, Conduit
185	28942	Screw, 10-32 x 3/8"
223	34279A	Filter Assy., Fuel