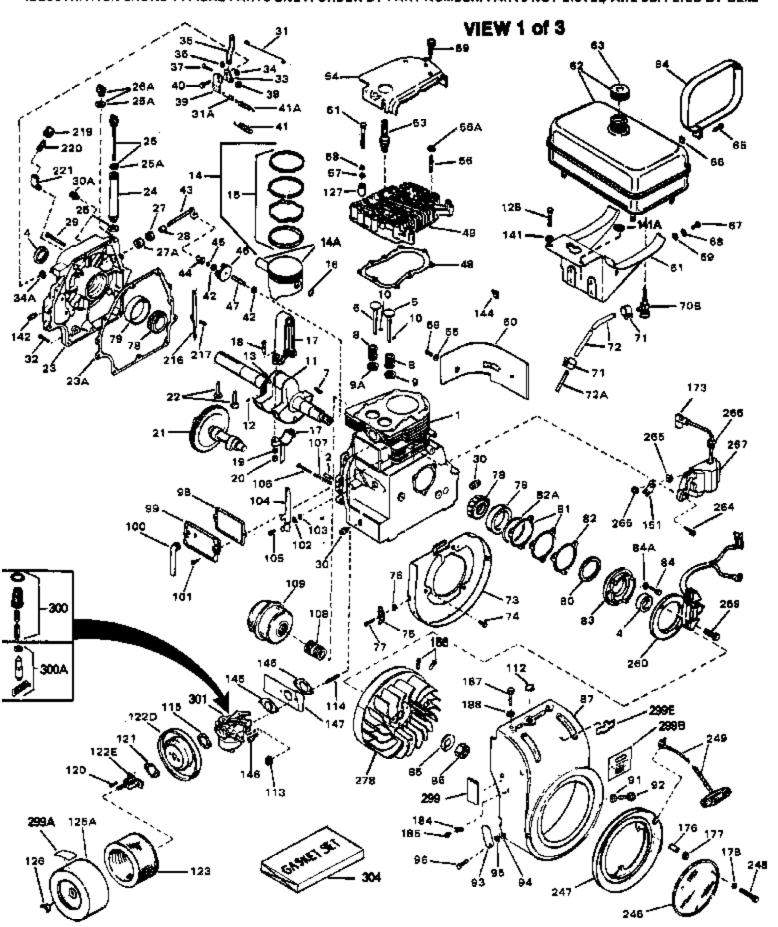
## ILLUSTRATION SHOWS TYPICAL PARTS ONLY, ORDER BY PART NUMBER, PARTS NOT LISTED ARE SUPPLIED BY DEM.



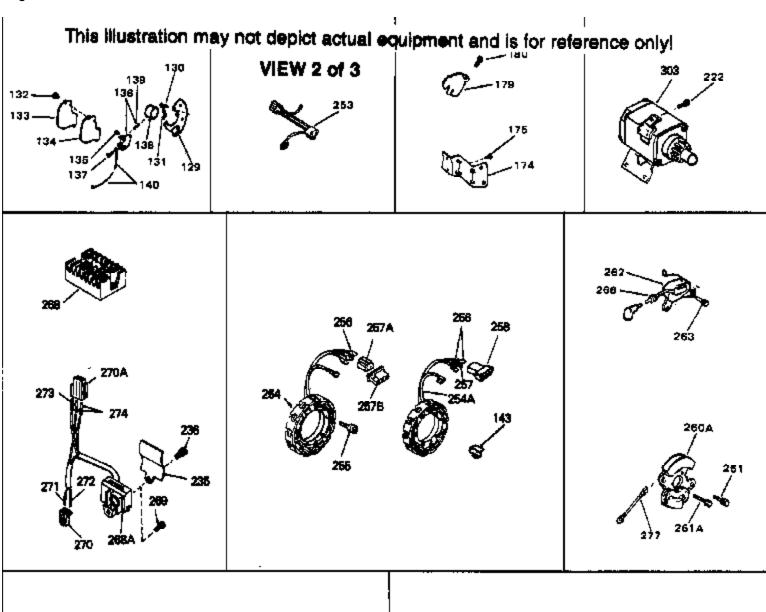
Ref # Part Number	Qty Description
1 33039	Cylinder (Incl.2,4,30,47,119) (3-5/16 ")
2 27652	Pin, Dowel
4 31950	Seal, Oil
5 31940	Intake Valve (Std.)
5 31941	Intake Valve (1/32" OS) (Incl. 9)
6 31942	Exhaust Valve (Std.)
6 31943	Exhaust Valve (1/32" OS) (Incl. 9)
7 650592	Key, Flywheel
8 31944	Spring, Valve
9A 31945	Cap, Lower valve spring (Std.)
9A 31946	Cap, Lower valve spring (1/32" OS)
9 31946	Cap, Lower valve spring (1/32" OS)
9 31945	Cap, Lower valve spring (Std.)
10 20810	Pin, Valve spring retainer
11 33411B	Crankshaft (Incl. 12, 13, 78 & 79)
12 29783	Pin, Crankshaft gear
13 31931	Gear, Crankshaft
14 34508	Piston, Pin & Ring Set (Std.) (3-5/16 " Bore)
14 34509	Piston, Pin & Ring Set (0.10" OS)
14 34510	Piston, Pin & Ring Set (.020" OS)
	, ,
14 34850	Piston, Pin & Ring Set (.030" OS)
14 34523	Piston, Pin & Ring Set (.040" OS)
14 32620B	Piston & Pin Ass'y. (.040" OS) (Incl. 16)
14A 32001C	Piston & Pin Ass'y. (Std.)(Incl.16)(3 -5/16")
14A 32002B	Piston & Pin Ass'y. (.010" OS) (Incl. 16)
14A 32003B	Piston & Pin Ass'y. (.020" OS) (Incl. 16)
14A 32619B	Piston & Pin Ass'y. (.030" OS) (Incl. 16)
15 32004	Ring Set (Std.) (3-5/16" Bore)
15 32005	Ring Set (.010" OS)
15 32006	Ring Set (.020" OS)
15 32623	Ring Set (.030" OS)
15 32624	Ring Set (.040" OS)
15 32321	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 32685	Cylinder Cover (Incl.4,25,26A,28,30,3 4 & 43)
25A 29673	* Gasket, Oil fill
25A 35499	"O" Ring
26 33069	Dipstick (Incl. 25A)
28 32426	Spacer, Governor rod
29 650588	Screw, 1/4-20 x 2"
30 31927	Oil Drain Plug
31 31968	Link, Governor
32 650451	Screw, 1/4-20 x 1"
33 31964 34 30103	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

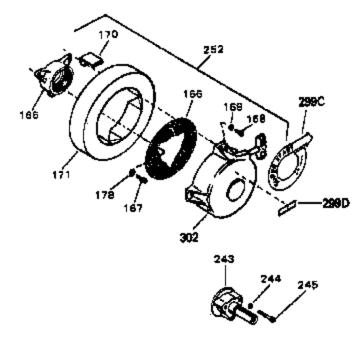
D-1 "	Dort Number	t. Description
		ty Description
	31965	Plate, Governor spring
	30312	Screw, 10-32 x 1/2"
	31967	Spring, Governor
	30590A	Washer, Flat
43	32425	Rod Assy., Governor
44	31948	Spool, Governor
45	29193	Ring, Retaining
	31947	Gear Assy., Governor
	31930	Shaft, Mechanical Governor
	32000A	* Gasket, Cylinder head
	32472	Head, Cylinder
	650694A	Screw, 5/16-18 x 2" (Use as required)
	650711	
		Screw, 5/16-18 x 1-5/8" (Use as requi red)
	650628A	Screw, 5/16-18 x 2-3/8" (Use as requi red)
	650695A	Screw, 5/16-18 x 2-1/4" (Use as requi red)
	650714	Screw, 5/16-18 x 1-5/8" (Use as requi red)
	650697A	Screw, 5/16-18 x 2-1/2" (Use as requi red)
	650692	Screw, 5/16-18 x 1-3/4" (Use as requi red)
51	650603	Screw, 5/16-18 x 5/8" (Use as require d)
53	31889	Plug, Spark (D-21)
54	31962	Cover, Cylinder
55	28537	Washer, Plain
	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
	31888	Fuel Cap (Kerosene)
	410144B	Fuel Cap (White Plastic)(Std.)(As req uired)
63	34210	Fuel Cap (Red Plastic) (Spurt resistant, High profile) (Use as
		required)
64	31979	Strap, Fuel tank
	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 requir ed)
	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)
	29683	Strainer & Shut-off, Fuel
	26460	Clamp, Fuel line (Use as required)
	29774	Fuel Line (Braided) (8.25") (Use as r equired)
	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"
	33356	Terminal
	28545	Grommet, Plastic
	650760	Screw, 8-32 x 3/8"
	31932	Bearing, Tapered roller
	31928	<del>-</del> •
		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
		as required

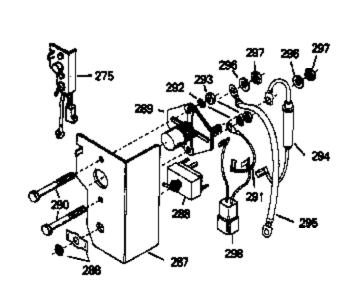
as required

Ref # Part Number  81 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 gasket must be limited to a combined total of .010" thick. Steel spacersmust be used as req  * 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  * 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. Use of gasket must be limited to a combined total of .010" thick. Steel spacersmust be used as required to eliminat	on the cylinder ase no shim be limited to a cust be used mine the gap on the cylinder ase no shim be limited to a
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 32677  "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	n the cylinder ase no shim be limited to a
83 32677 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	
	n can be from s will be ombined total
84 650668 Screw, 10-32 x 1"	
84A 650679 Lockwasher, 5/16" (Use as required)	
85 650666 Washer, Lock	
86 650594 Nut, Flywheel, 3/4-16	
87 32474 Blower Housing 91 8274 Washer, Lock	
92 650595 Screw, 5/16-24 x 3/8"	
93 32039 Switch, Stop	
94 650890 Washer, Shakeproof	
95 26073 Washer, Flat	
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"	
101 650128 Screw, 10-24 x 1/2" 102 28558 Washer, Wave	
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)	
115 27272 * Gasket, Air cleaner 120 650399	
121 30767 Spacer, Air cleaner	
125A 32810 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)	
141A 8274 Lockwasher, Split (Use as required)	
141 26073 Washer, Flat (Use as required) 145 33263 * Gasket, Carburetor	
145 33265 Gaskei, Carburetor 146 650451 Screw, 1/4-20 x 1"	
147 34061 Baffle, Air	
156 730201 Trigger Pin Kit (Use as required)	

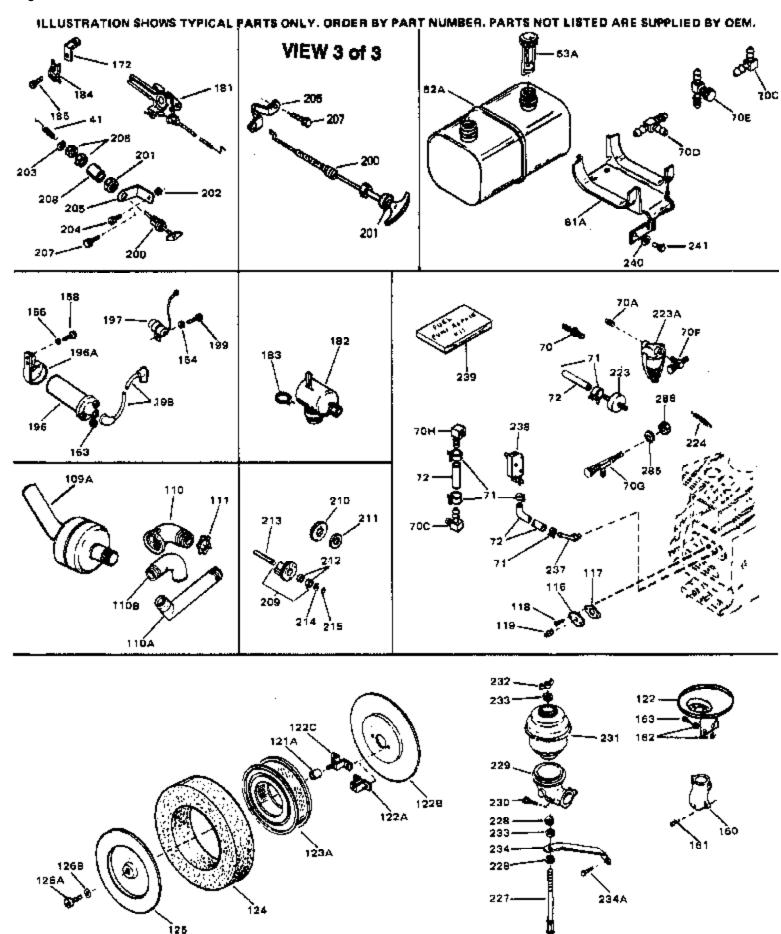
Ref #	Part Number	Qty	Description
173	610118	-	Cover, Spark plug (Use as required)
176	31992		Spacer, Screen
177	8345		Washer, 1/4 plain (Use as required)
178	27070		Washer, Lock 1/4 E.T. (Use as require d)
178	650675		Washer, Flat 1/4 (Use as required)
184	27793		Clip, Conduit
185	28942		Screw, 10-32 x 3/8"
246	33776		Screen, Starter pulley
247	31980		Pulley, Starter
248	650680		Screw, 1/4-20 x 1-1/2"
249	32046		Rope Assy., Starter (Use as required)
266	610750		Grommet, Lead wire
278	610758		Flywheel
299A	31752		Decal, Air cleaner
299	34346		Decal, Instruction
299B	550223		Decal, Name
299B	34768		Decal, Name
299B	32676		Decal, Solid State
300A	631021		Inlet Needle, Seat & Clip Assy.
301	631948		Carburetor (Incl. 145) (Refer to Division 5, Section A, page
			152 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)
222	792028		Screw, 5/16-18 x 7/8" (Use w/32817 st r.motor)
222	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)
257B	610824		Flat Connector (Female terminals) (As req.)
260A	610759		Solid State Magneto
261	650489		Screw, 1/4-20 x 5/8"
261A	650669		Screw, 5/16-18 x 1-1/4"
262	610760		Solid State Transformer Ass'y.(Incl.1 73,266)
263	650561		Screw, 1/4-20 x 5/8"
266	610750		Grommet, Lead wire
	730198		Starter Switch Kit(Incl. 287-298) (As req.)
277	30831		Ground Wire (Incl. 75)



Ref #	Part Number	Qty	Description
41	31967		Spring, Governor
61A	34823		Bracket, Fuel tank
62A	33050		FuelTank (Incl. 63) (Dual, Kerosene & Gas)
70E	33053		Fitting, Fuel line
70D	31887		Fitting, Fuel line
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)
111	650590		Nut, Conduit
119	28534		Pipe Plug, 1/8-27 (Use as required)
119	9556		Plug, Pipe, 1/8-27 (Use as required)
122C	32907B		Bracket, Air cleaner
122B	34065		Bracket, Air cleaner
123A	32008		Element, Air cleaner
184	27793		Clip, Conduit
185	28942		Screw, 10-32 x 3/8"
	26073		Washer, Flat
241	29212		Screw, 1/4-28 x 7/16"