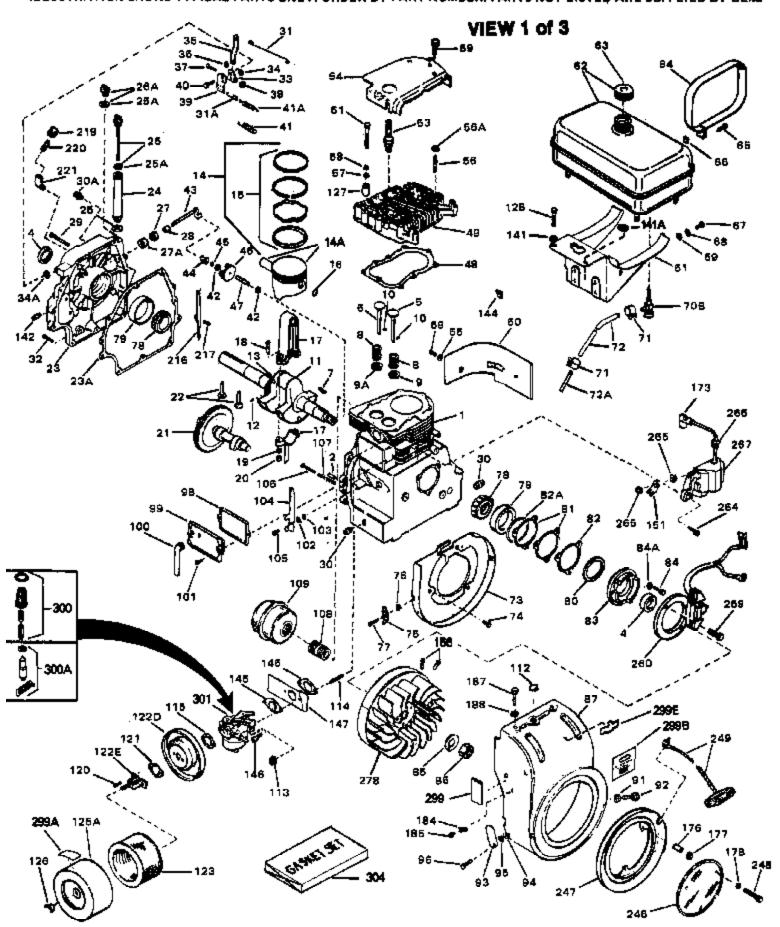
ILLUSTRATION SHOWS TYPICAL PARTS ONLY, ORDER BY PART NUMBER, PARTS NOT LISTED ARE SUPPLIED BY DEM.

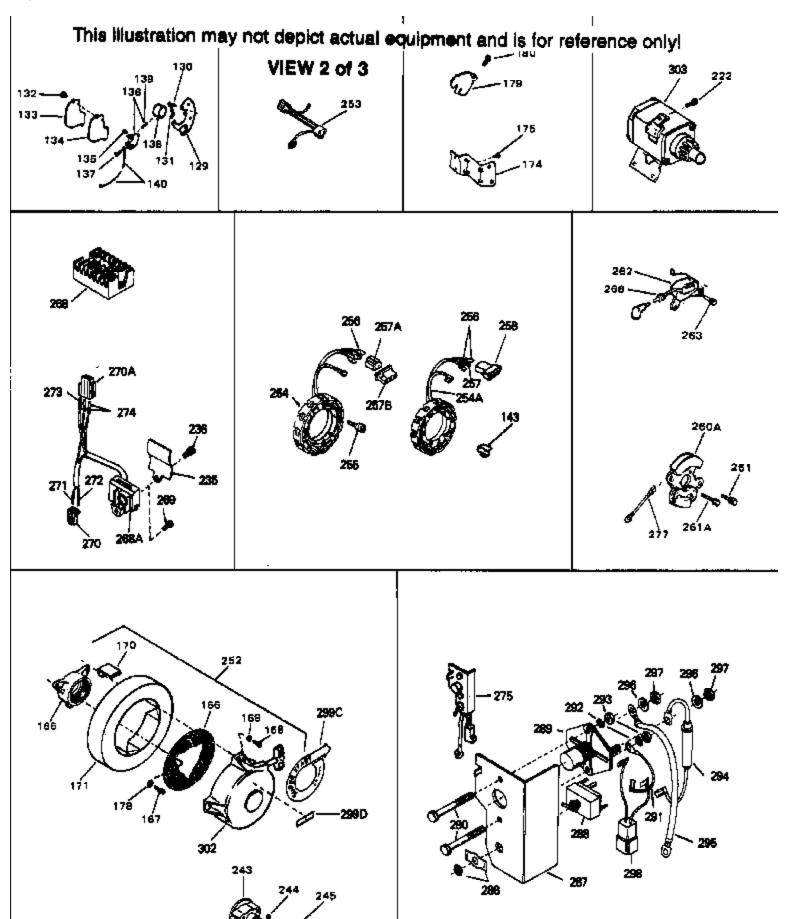


Ref #	Part Number Qt	
1		Cylinder (Incl. 2, 4, 30 & 47) (3-1/2 " Bore)
2	27652	Pin, Dowel
4	31950	Seal, Oil
	31940	Intake Valve (Std.)
	31941	Intake Valve (1/32" OS) (Incl. 9)
	31942	Exhaust Valve (Std.)
	31943	Exhaust Valve (1/32" OS) (Incl. 9)
	650592	Key, Flywheel
	31944	Spring, Valve
	31946	Cap, Lower valve spring (1/32" OS)
	31945	Cap, Lower valve spring (1/32 Co)
	32475	Cap, Lower valve spring (Gtd.)
	20810	Pin, Valve spring retainer
	33390B	Crankshaft (Incl. 12, 13, 78 & 79)
	29783	· ·
	31931	Pin, Crankshaft gear
		Gear, Crankshaft Pictor & Rin Acaby (Std.) (Incl. 4 C) (2 . 4 /2")
	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	Piston & Pin Ass'y. (.030" OS) (Incl. 16)
	32622B	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
19	26073	Washer, Connecting rod
20	28264	Nut Assy., Lock
21	32150	Camshaft (MCR)
22	31939	Lifter, Valve
23	32685	Cylinder Cover (Incl.4,25,26A,28,30,3 4 & 43)
23A	31956A	* Gasket, Cylinder cover
	33992A	Oil Fill Tube
	33590	"O" Ring
	33993A	Dipstick (Incl. 25A)
	32426	Spacer, Governor rod
	650588	Screw, 1/4-20 x 2"
	31927	Oil Drain Plug
	31968	Link, Governor
	650451	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
39	31965	Plate, Governor spring

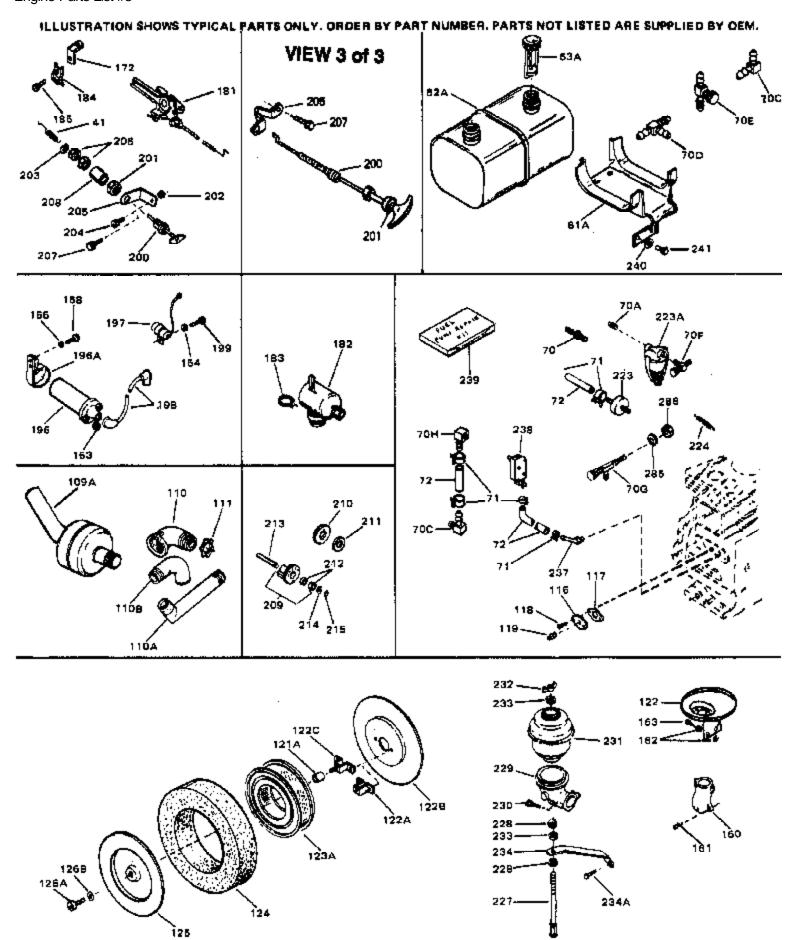
Def !!	Port Number	/ Description
		y Description
	30312	Screw, 10-32 x 1/2"
	31967	Spring, Governor
	30590A	Washer, Flat
	32425	Rod Assy., Governor
44	31948	Spool, Governor
45	29193	Ring, Retaining
46	31947	Gear Assy., Governor
47	31930	Shaft, Mechanical Governor
48	32246A	* Gasket, Cylinder head
49	33034	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 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 requi red)
	650603	Screw, 5/16-18 x 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)
58	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
61	31978	Bracket, Fuel tank
63	410144B	Fuel Cap (White Plastic)(Std.)(As req uired)
63	34210	Fuel Cap (Red Plastic) (Spurt resistant, High profile) (Use as
		required)
64	24070	Stron Fuel took
	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)
	30962	Fuel Line (Braided) (32") (Use as req uired)
	30965	Fuel Line (Braided) (48") (Use as req uired)
72	29774	Fuel Line (Braided) (8.25") (Use as r equired)
72	30705	Fuel Line (Braided) (16") (Use as req uired)
73	32579	Baffle, Blower housing
74	650561	Screw, 1/4-20 x 5/8"
	31932	Bearing, Tapered roller
	31928	Cup, Bearing
	32031	Spacer, Steel (.010" thick) NOTE: Determine the gap
30		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

## Part Number City Description ## 31971 "Gasket, Shim (,004/.005 thick) NOTE: Determine the gap between the cover and the machined surface on the cylinder which can be form. 0.01" to 1,00" 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 ## 3282 "Gasket, Shim (,005/.007 thick) NOTE: Determine the gap between the cover and the machined surface on the cylinder which can be form .01" up 1,00" 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 ## 2283 "O' Ring ## 33.3577 Cover, Cylinder NOTE: Determine the gap between the cover and the machined surface on the cylinder which can be from .00" up 100" in which case no shim gaskets will be required. Use of gasket must be limited to a combined total of .010" in which case no shim gaskets will be required. Use of gasket must be limited to a combined total of .010" in which case no shim gaskets will be required. Use of gasket must be limited to a combined total of .010" in Link. Steel spacersmust be used as required to a climinal step of the machined surface on the cylinder which can be from .00" up 100" in which case no shim gaskets will be required. Use of gasket must be limited to a combined total of .010" in Link. Steel spacersmust be used as required to a climinal step of .010" in Link. Steel spacersmust be used as required to a climinal step of .010" in Link. Steel spacersmust be used as required to a climinal step of .010" in Link. Steel spacersmust be used as required to a climinal step of .010" in Link. Steel spacersmust be used as required to a climinal step of .010" in Link. Steel spacersmust be used as required to a climinal step of .010" in Link. Steel spacersmust be used as required to climinal step of .010" in Link. Steel spacersmust be used as required to climinal step of .010" in Link. Steel spacersmust be used as required to .010" in Link. Ste			
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 *O* Ring 83 32577			
between the covier and the machined surface on the cylinder which can be from Joil* up to JOi* with 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 83 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* up 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 Screw, 516-18 x 7/8" Lockwasher, 5766* (Use as required to eliminat 85 650669 Washer, Lock 86 650594 Nut, Flywheel, 344-16 87 33044A Blower Hsg. (Incl.73) (For electric s tarter) 87 33044A Blower Hsg. (Incl.73) (For electric s tarter) 88 650595 Screw, 516-24 x 3/8" 98 650595 Screw, 516-24 x 3/8" 98 650595 Screw, 516-24 x 3/8" 98 31958 Gasket Breather 99 31957 Breather Assy. 90 35350 Tube, Breather 910 35350 Tube, Breather 910 3530 Tube, Breather 9110 35008 Screw, 10-24 x 1/2" 910 35008 Screw, 10-24 x 1/2" 911 3009 Spring 912 30042 Nipple, Exhaust pipe 912 30042 Nut, Wing 913 30042 Screw, 10-24 x 1/2" 914 30061 Screw, 10-32 x 616" 915 92028 Screw, 10-32 x 616" 916 92029 Screw, 10-32 x 616" 917 3009 Screw, 10-32 x 616" 918 92029 Screw, 10-32 x 616" 919 30042 Screw, 10-32 x 616" 910 30051 Screw, 10-32 x 616" 911 30073 Screw, 10-32 x 616" 912 30073 Screw, 10-32 x 616" 913 3008 Screw, 516-18 x 518" (Use as required) 914 30073 Screw, 10-32 x 616" 915 3008 Screw, 516-18 x 78" (Use as required) 916 3009 Screw, 516-18 x 78" (Use as required) 917 30101 Screw, 10-32 x 616" 918 92029 Screw, 10-32 x 1" screw, 10-32 x 616" 919 3009 Screw, 516-18 x 78" (Use as required) 914 30073 Screw, 10-32 x 616" 915 3009 Screw, 516-18 x 78" (Use as required) 916 3009 Screw, 516-18 x 78" (Use as required) 917 30101 Screw, 10-32 x 616" 918 92029 Screw, 516-18 x 78" (Use as required) 919 3045 Screw, 516-18 x 78" (Use as required) 910 3045 Screw, 10-32 x 616" 910 3045 Screw,	81	31971	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
83 32577 Cover, Öylinder 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 Screw, 5/16-18 x 7/8" Lockwasher, 5/16" (Use as required) 85 650666 Washer, Lock 86 650564 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 650595 Screw, 5/16-24 x 3/8" 97 31958 "Gasket, Breather 98 31958 "Gasket, Breather 99 31957 Breather Assy. 100 35350 Tube, Breather 101 650128 Screw, 10-24 x 1/2" 105 650597 Screw, 10-24 x 1/2" 105 650597 Screw, 10-24 x 1/2" 107 33099 Spring 108 32042 Nipple, Exhaust pipe 109 32043B Muffler 112 33038 Plug, Button (Use as required) 115 27272 "Gasket, Air cleaner 126 650513 Nut, Wing 128 650713 Screw, 10-32 x 5/8" 129 572028 Screw, 5/16-18 x 3/4" (Use as require d) 129 792028 Screw, 5/16-18 x 3/4" (Use as require d) 120 65039 Screw, 5/16-18 x 3/4" (Use as require d) 121 30767 Spacer, Air cleaner 122 50703 Washer, Flat (Use as require d) 123 650713 Screw, 5/16-18 x 3/4" (Use as require d) 124 65073 Hand Screw, 5/16-18 x 3/4" (Use as require d) 125 6730201 Tingger Pin kit (Use as required) 126 670390 Tingger Pin kit (Use as required) 127 610118 Cover, Spark plug (Use as required) 128 650429 Tingger Pin kit (Use as required) 129 610118 Cover, Spark plug (Use as required) 129 573020 Screw, 5/16-18 x 5/8" (Use as required) 120 650390 Tingger Pin kit (Use as required) 121 610118 Cover, Spark plug (Use as required) 122 610118 Cover, Spark plug (Use as required) 123 610118 Cover, Spark plug (Use as required) 129 570205 Screw, Spacer, Screen	82	31972	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
83 32577 Cover, Öylinder 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 Screw, 5/16-18 x 7/8" Lockwasher, 5/16" (Use as required) 85 650666 Washer, Lock 86 650564 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 650595 Screw, 5/16-24 x 3/8" 97 31958 "Gasket, Breather 98 31958 "Gasket, Breather 99 31957 Breather Assy. 100 35350 Tube, Breather 101 650128 Screw, 10-24 x 1/2" 105 650597 Screw, 10-24 x 1/2" 105 650597 Screw, 10-24 x 1/2" 107 33099 Spring 108 32042 Nipple, Exhaust pipe 109 32043B Muffler 112 33038 Plug, Button (Use as required) 115 27272 "Gasket, Air cleaner 126 650513 Nut, Wing 128 650713 Screw, 10-32 x 5/8" 129 572028 Screw, 5/16-18 x 3/4" (Use as require d) 129 792028 Screw, 5/16-18 x 3/4" (Use as require d) 120 65039 Screw, 5/16-18 x 3/4" (Use as require d) 121 30767 Spacer, Air cleaner 122 50703 Washer, Flat (Use as require d) 123 650713 Screw, 5/16-18 x 3/4" (Use as require d) 124 65073 Hand Screw, 5/16-18 x 3/4" (Use as require d) 125 6730201 Tingger Pin kit (Use as required) 126 670390 Tingger Pin kit (Use as required) 127 610118 Cover, Spark plug (Use as required) 128 650429 Tingger Pin kit (Use as required) 129 610118 Cover, Spark plug (Use as required) 129 573020 Screw, 5/16-18 x 5/8" (Use as required) 120 650390 Tingger Pin kit (Use as required) 121 610118 Cover, Spark plug (Use as required) 122 610118 Cover, Spark plug (Use as required) 123 610118 Cover, Spark plug (Use as required) 129 570205 Screw, Spacer, Screen	82A	32599	"O" Ring
84A 650679			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
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92 650595 95 8274 Washer, Lock 96 650595 Screw, 5/16-24 x 3/8" 98 31958 99 31957 Breather Assy. 100 35350 Tube, Breather 101 650128 Screw, 10-24 x 1/2" 105 650597 Screw, 10-24 x 5/8" 107 33099 Spring 108 32042 Nipple, Exhaust pipe 109 32043B Muffler 112 33038 Plug, Button (Use as required) 115 27272 120 650399 Screw, 10-32 x 5/8" 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 792028 Screw, 5/16-18 x 3/4" (Use as require d) 129 128 792028 Screw, 5/16-18 x 7/8" (Use as require d) 141 26073 Masher, Flat (Use as required) 145 33263 146 650451 Screw, 5/16-18 x 7/8" (Use as require d) 147 34061 Screw, 14-20 x 1" Saffle, Air Terminal, Female Trigger Pin Kit (Use as required) Spacer, Screen Trigger Pin Kit (Use as required) Spacer, Screen Spark plug (Use as required) Spacer, Screen Trigger Pin Kit (Use as required) Spacer, Screen			Blower Hsg. (Incl.73) (For electric s tarter)
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Ref #	Part Number	Qty	Description
178	650675	-	Washer, Flat 1/4 (Use as required)
187	650713		Screw, 5/16-18 x 5/8"
188	26073		Washer, Flat
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)
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	610901		Solid State Flywheel
299A	31752		Decal, Air cleaner
299	34346		Decal, Instruction
299B	550223		Decal, Name
299B	32676		Decal, Solid State
300A	631725		Inlet Needle, Seat & Clip Assy.
301	631969		Carburetor (Incl. 145) (Refer to Division 5, Section A, page 150 for breakdown)
304	33237A		* Gasket Set (Incl. items marked *)



Ref # Part N	Number Qty	Description
178 27070	0	Washer, Lock 1/4 E.T. (Use as require d)
178 65067	75	Washer, Flat 1/4 (Use as required)
180 65070	01	Screw, 8-18 x 7/16" (Use as required)
222 79202		Screw, 5/16-18 x 7/8" (Use w/32817 st r.motor)
222 65078		Screw,5/16-18 x 11/16"(Use w/33835 st r.motor)
235 34276	6	Plate, Cover (Use as required to cover regulator mounting hole in blower housing)
236 65073	36	Screw, 10-16 x 3/8" (Use as required)
252 73013		Rewind Starter Kit (Incl. 165, 166, 167, 168, 169 & 291) (Use as required)
253 33018	8	Harness Assy., Adapter (Use as requir ed)
254A 61090	02	Alternator Coil (20 Amp)(Incl.256,257 ,258)
255 65052	21	Screw, 10-32 x 1-1/8"
256 61090	05	Terminal
257 61090		Terminal
257B 61082		Flat Connector (Female terminals) (As req.)
258 61090		Connector, Flat
266 61075		Grommet, Lead wire
275 73019		Starter Switch Kit(Incl. 287-298) (As req.)
303 33835	5	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.



Ref #	Part Number	Qty	Description
41	31967		Spring, Governor
62A	31977		Fuel Tank (Incl. 63)
71	26460		Clamp, Fuel line (Use as required)
72	30962		Fuel Line (Braided) (32") (Use as req uired)
72	30965		Fuel Line (Braided) (48") (Use as req uired)
72	29774		Fuel Line (Braided) (8.25") (Use as r equired)
72	30705		Fuel Line (Braided) (16") (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	34065		Bracket, Air cleaner
122C	32907B		Bracket, Air cleaner
123A	32008		Element, Air cleaner
200	32421		Control Assy., Speed (Incl. 206)
201	650641		Nut, Jam
205	33597		Bracket, Speed control
206	650456		Nut, Flanged whiz-lock
207	30513		Screw & Lockwasher
208	31992		Spacer
237	32958		Fitting, Fuel
238	32959		Fuel Pump, Impulse
239	33010		Repair Kit, Impulse fuel pump