

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



## Engine Parts List #1

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	34692		Gear, Crankshaft
14A	32238B		Piston & Pin Ass'y. (Std.)(Incl.16)(3 -1/2")
14A	32239B		Piston & Pin Ass'y. (.010" OS) (Incl. 16)
14A	32240B		Piston & Pin Ass'y. (.020" OS) (Incl. 16)
14A	32621B		Piston & Pin Ass'y. (.030" OS) (Incl. 16)
14A	32622B		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	34693		Camshaft (MCR) (Helical)
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

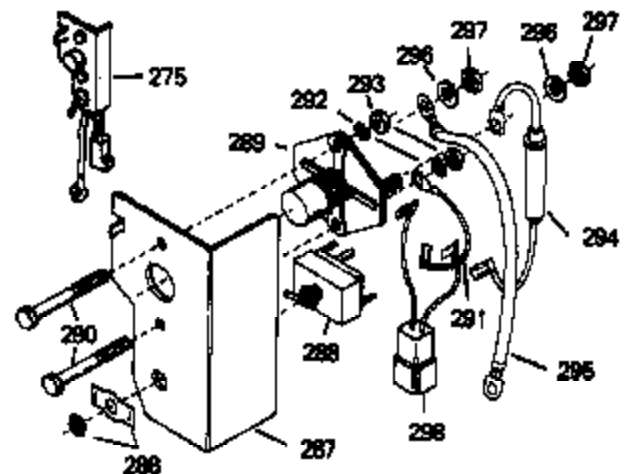
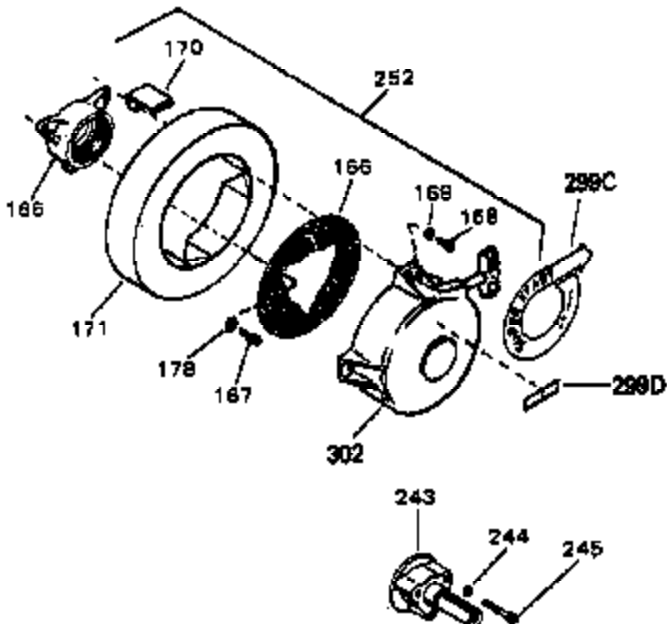
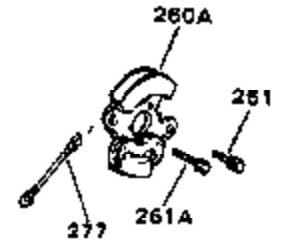
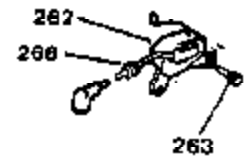
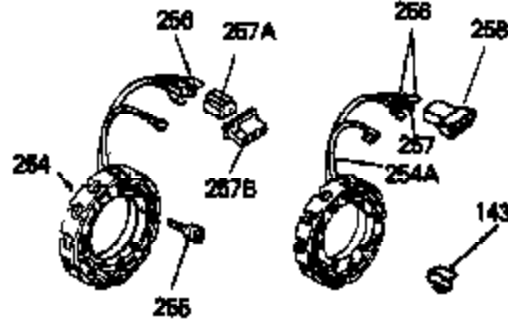
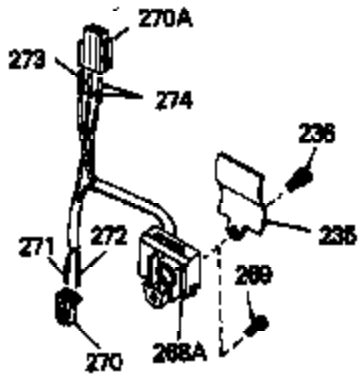
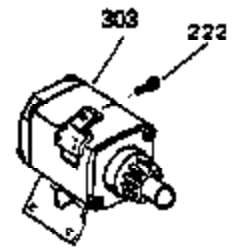
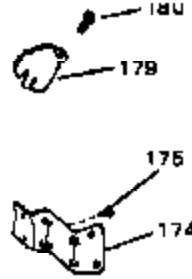
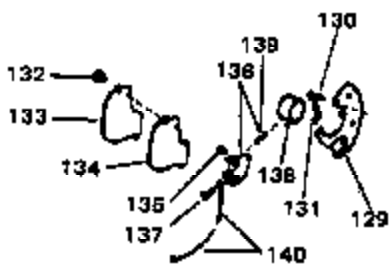
Ref #	Part Number	Qty	Description
40	30312		Screw, 10-32 x 1/2"
41	31967		Spring, Governor
42	30590A		Washer, Flat
43	32425		Rod Assy., Governor
44	31948		Spool, Governor
45	29193		Ring, Retaining
46	34691		Governor Gear Ass'y. (Helical)
47	31930		Shaft, Mechanical Governor
48	32246A		* Gasket, Cylinder head
49	33034		Head, Cylinder
51	650694A		Screw, 5/16-18 x 2" (Use as required)
51	650711		Screw, 5/16-18 x 1-5/8" (Use as required)
51	650628A		Screw, 5/16-18 x 2-3/8" (Use as required)
51	650695A		Screw, 5/16-18 x 2-1/4" (Use as required)
51	650714		Screw, 5/16-18 x 1-5/8" (Use as required)
51	650697A		Screw, 5/16-18 x 2-1/2" (Use as required)
51	650692		Screw, 5/16-18 x 1-3/4" (Use as required)
51	650603		Screw, 5/16-18 x 5/8" (Use as required)
53	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)
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
63	410144B		Fuel Cap (White Plastic)(Std.)(As required)
63	34210		Fuel Cap (Red Plastic) (Spurt resistant, High profile) (Use as required)
67	650517		Screw, 1/4-20 x 27/32" (Use as required)
67	650561		Screw, 1/4-20 x 5/8" (Use as required)
67	30063		Screw, 1/4-20 x 1/2" (Use as required)
67	792028		Screw, 5/16-18 x 7/8" (Use as required)
71	26460		Clamp, Fuel line (Use as required)
72	29774		Fuel Line (Braided) (8.25") (Use as required)
72	30705		Fuel Line (Braided) (16") (Use as required)
72	30962		Fuel Line (Braided) (32") (Use as required)
72	30965		Fuel Line (Braided) (48") (Use as required)
73	31975		Baffle, Blower housing
74	650561		Screw, 1/4-20 x 5/8"
76	28545		Grommet, Plastic
77	650760		Screw, 8-32 x 3/8"
78	31932		Bearing, Tapered roller
79	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 spacers must be used as required

Ref #	Part Number	Qty	Description
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 spacers must be used as req
82A	32599		"O" Ring
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 spacers must be used as req
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" in which case no shim gaskets will be required. Use of gasket must be limited to a combined total of .010" thick. Steel spacers must be used as required to eliminat
84A	650679		Lockwasher, 5/16" (Use as required)
84	792028		Screw, 5/16-18 x 7/8"
85	650666		Washer, Lock
86	650594		Nut, Flywheel, 3/4-16
87	33041		Blower Housing
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"
98	31958		* Gasket, Breather
99	31957		Breather Assy.
100	35350		Tube, Breather
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
112	33038		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
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)
141	26073		Washer, Flat (Use as required)
141A	8274		Lockwasher, Split (Use as required)
145	33263		* Gasket, Carburetor
146	650451		Screw, 1/4-20 x 1"
147	34061		Baffle, Air
147	31959		Baffle, Air
151	610908		Terminal, Female
156	730201		Trigger Pin Kit (Use as required)
173	610118		Cover, Spark plug (Use as required)
176	31992		Spacer, Screen

Ref #	Part Number	Qty	Description
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
219	32154		Cap, Pipe
220	32438		Nipple, Pipe
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)
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
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 *)

This illustration may not depict actual equipment and is for reference only!

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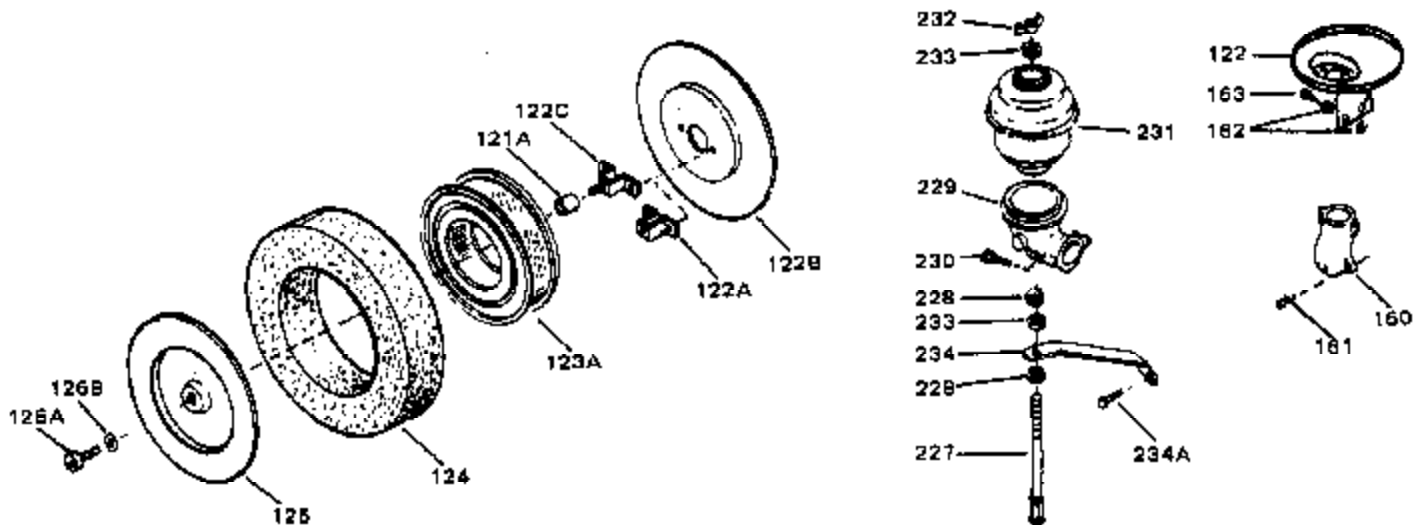
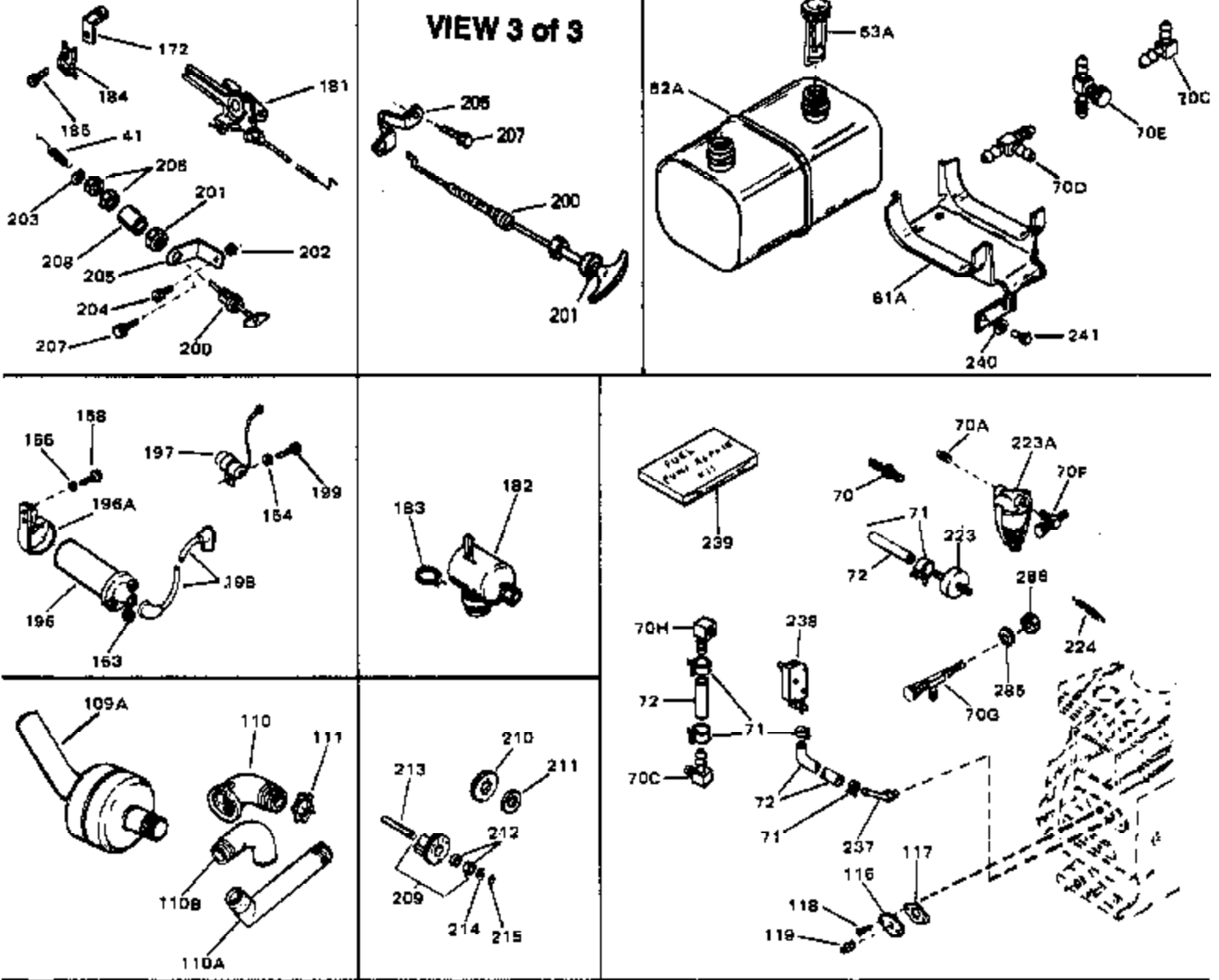


## Engine Parts List #2

Ref #	Part Number	Qty	Description
174	31755		Bracket, Guard
175	28942		Screw, 10-32 x 3/8"
178	27070		Washer, Lock 1/4 E.T. (Use as required)
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 required)
257B	610824		Flat Connector (Female terminals) (As req.)
266	610750		Grommet, Lead wire
275	730198		Starter Switch Kit (Incl. 287-298) (As req.)

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

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Ref #	Part Number	Qty	Description
41	31967		Spring, Governor
70G	32961		Valve, Fuel shut-off
71	26460		Clamp, Fuel line (Use as required)
72	29774		Fuel Line (Braided) (8.25") (Use as required)
72	30705		Fuel Line (Braided) (16") (Use as required)
72	30962		Fuel Line (Braided) (32") (Use as required)
72	30965		Fuel Line (Braided) (48") (Use as required)
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
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"
237	32958		Fitting, Fuel
238	32959		Fuel Pump, Impulse
239	33010		Repair Kit, Impulse fuel pump
285	32960		Washer, Lock
286	650849		Nut, Hex jam, 3/8-24