



Ref #	Part Number	Qty	Description
1	33311B		Cylinder (Incl. 2,3,4,5,184) (2-5/8" Bore)
2	27652		Pin, Dowel
3	27642		Plug, Oil drain, 1/4-18
4	27876B		Seal, Oil
5	27877A		Intake Valve (Std.) (Incl. 9)
5	27880A		Inake Valve (1/32" OS) (Incl. 9)
6	27878A		Exhaust Valve (Std.)
6	27880A		Exhaust Valve (1/32" OS) (Incl. 9)
7	27882		Cap, Upper valve spring
8	27881		Spring, Valve
9	32581		Cap, Lower valve spring
11	34081		Crankshaft (Incl. 12 & 13)
12	29783		Pin, Crankshaft gear Used in early production. This gear is serviceable ONLY when itis pinned to the crankshaft.
13	27884		Gear, Crankshaft Used in early production. This gear is serviceable ONLY when itis pinned to the crankshaft.
14A	33312B		Piston & Pin Ass'y. (Std.)(2-5/8")(In cl.16)
14A	33313B		Piston & Pin Ass'y. (.010" OS) (Incl. 16)
14A	33314B		Piston & Pin Ass'y. (.020" OS) (Incl. 16)
14	34531		Piston, Pin & Ring Set (Std.) (2-5/8" Bore)
14	34532		Piston, Pin & Ring Set (.010" OS)
14	34533		Piston, Pin & Ring Set (.020" OS)
15	34854		Ring Set (Std.) (2-5/8" Bore)
15	34855		Ring Set (.010" OS)
15	34856		Ring Set (.020" OS)
16	27888		Ring, Piston pin retaining
17	31380C		Rod Assy., Connecting (Incl. 18)
18A	30682		Bolt, Connecting rod (Early productio n)
18	650662C		Screw, Connecting rod (Late productio n)
19	26073		Connecting rod bolt washer (Early pro duction)
20	28264		Connecting rod nut (Used on early pro duction)
21	32115		Camshaft (MCR)
22	34034		Lifter, Valve
23	31303B		Cover, Cylinder (Incl. 24, 27 & 105)
24	28427		Seal, Oil
26	30684		* Gasket, Cylinder cover
27	31546		Bushing, Crankshaft
28	650488		Screw, 1/4-20 x 1-1/4"
29	650493		Screw, 1/4-20 x 1-3/4"
30	650489		Screw, 1/4-20 x 5/8"
31	30939A		Cover, Cylinder head
32	28938C		* Gasket, Cylinder head
33	30938A		Head, Cylinder (Incl. 3 of 36)
34	33636		Resistor Spark Plug
35	26073		Washer, Flat (Use as required)
35	650570		Washer, Flat (Use as required)
35	650691		Washer, Flat (Use as required)
36	650697A		Screw, 5/16-18 x 2-1/2" (Use as requi red)
36	650695A		Screw, 5/16-18 x 2-1/4" (Use as requi red)
36	650694A		Screw, 5/16-18 x 2" (Use as required)
37	650128		Screw, 10-24 x 1/2" (Use as required)
37	650597		Screw, 10-24 x 5/8" (Use as required)
38	27896A		* Gasket, Breather cover
39	28423		Body, Breather
40	28424		Element, Breather
41	28425		Cover, Valve spring
45	27915A		* Gasket, Intake

Ref #	Part Number	Qty	Description
46	30195A		Flange, Carburetor (Incl. 79 & 80)
48	30196		Screw, 5/16-18 x 3/4"
49	29918		Lockwasher
50	650548		Screw, 8-32 x 5/16"
51	30319		Rivet, Split (Used on early production)
52	32326A		Lever, Governor (New lever does not need 1 of Ref #49,51,53,54,132,133)
53	30322		Lock Nut, 8-32 (Use as required)
54	29916		Clamp, Governor lever (Use as required)
55	30205		Bracket, Adjusting
56	30824		Link, Throttle
58	29216		Locknut, 10-32
59	29752		Nut & Lockwasher, 1/4-28
60	650572		Screw, 1/4-28 x 1-1/8"
61	29826		Screw, 10-32 x 3/4"
62	29642		Ring, Retaining
63	30699B		Rod Assy., Governor (This one piece gov. rod is no longer used. It is replaced by 30699C assy., Ref.#63A)
63A	30699C		Rod Assy., Governor (Incl. 64 & 65)
64	30700		Yoke, Governor
65	650494		Screw, 6-40 x 5/16"
66A	31297		Dipstick (Incl. 68)
68	29673		* Gasket, Dipstick
69	29747B		Screw, 5/16-24 x 21/32"
70	32158E		Blower Hsg. (For elec.starters)(Incl. 1 89,190)
73	29536		Baffle, Blower housing
74	650561		Screw, 1/4-20 x 5/8"
75	31688A		* Gasket, Carburetor
81	30196		Screw, 5/16-18 x 3/4" (Use as required)
81	28820		Screw, 10-32 x 1/2" (Use as required)
81	650521		Screw, 10-32 x 1-1/8" (Use as required)
89	730127		Air Cleaner Assy. (Incl. 81,81A,82,83,84,85,90G & 298B) (Use as required)
98	28569		Compression Spring (Used with 29500 screw)(Use as required)
98	32924		Compression Spring (Used with 650688 screw) (Use as required)
98	31342		Compression Spring (Used with 650549 screw) (Use as required)
99	650549		Screw, 5-40 x 7/16" (Use as required)
99	29500		Screw, 8-32 x 3/4" (Use as required)
99	650688		Screw, 10-32 x 1 (Use as required)
102	30884		Key, Flywheel
103	31843A		Bracket, Governor gear
104	650836		Screw, 10-24 x 1/2"
105	31845		Shaft, Mechanical governor
106	30590A		Washer, Flat
107	30591		Gear Assy., Governor (Incl. 106)
108	30588A		Spool, Governor
109	29193		Ring, Retaining
113	650561		Screw, 1/4-20 x 5/8"
114	31301		Fuel Tank (Incl. 115)
115	410144B		Fuel Cap (White Plastic)(Standard)(As req.)

Ref #	Part Number	Qty	Description
115	33032		Fuel Cap (Red Plastic) (Spurt Resistant, Low Profile) (Use as required)
115	34210		Fuel Cap (Red Plastic) (Spurt Resistant, High Profile) (Use as required)
119	29774		Fuel Line (Braided 8.25") (Use as required)
119	30705		Fuel Line (Braided 16") (Use as required)
119	30962		Fuel Line (Braided 32") (Use as required)
120	26460		Clamp, Fuel line (Use as required)
121	32401		Muffler
122	34174		Deflector, Exhaust
123	650665		Screw, 1/4-15 x 7/8"
125	27930A		* Gasket, Exhaust
126	30196		Screw, 5/16-18 x 3/4"
127	26073		Washer, Flat
128	650694A		Screw, 5/16-18 x 2"
132	650548		Screw, 8-32 x 5/16" (Early production)
132	650139		Screw, 8-32 x 1/2" (Early production)
144	650542		Screw, 5/16-18 x 3/4"
146	29538		Base, Engine mounting
147	650128		Screw, 10-24 x 1/2"
148	30622A		Extension, Blower housing
186	27275		Clip, Wire (Use as required)
186	29443		Clip, Fuel line (Use as required)
193	610118		Cover, Spark plug
226	610973		Terminal Assy.
229	28942		Screw, 10-32 x 3/8"
230	27793		Clip, Conduit
262	29716		Screw, 1/4-28 x 7/16"
264	32125		Cup, Starter
265	590417		Screen, Starter cup
266	650815		Washer, Belleville
267	8116		Nut, Hex
298A	550223		Decal, Name
298A	33310		Decal, 5 HP Mini-Bike (Use as required)
298A	31517		Decal, H.P. (5 H.P.) (Use as required)
298A	32173		Decal, H.P. (6 H.P.) (Use as required)
298	34346		Decal, Instruction
299	30547A		Contact Assy., Breaker
300	30548B		Condenser
301	631021		Inlet Needle, Seat & Clip Assy.
303	631826		Carburetor (Incl. 75 & 301) (Refer to Division 5, Section A, page 206 for breakdown)
304	610694A		Magneto (w/ring gear for 120 volt starter) NOTE: The complete magneto is not available as an assembly. The magneto number is shown for reference purposes only. Order component parts individually, as shown in parts list. (Refer to Division 5, Section B, page 24 for breakdown)
306	590473		Rewind Starter (Refer to Division 5, Section C, page 29 for breakdown)
310	33235A		* Gasket Set (Incl. items marked *)

This exploded view diagram illustrates the assembly of a mechanical component, likely a bracket or housing. The components are labeled with reference numerals:

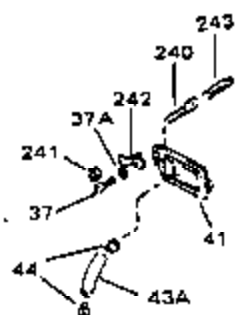
- 36**: A small pin or screw.
- 200**: A small circular component, possibly a washer or gasket.
- 113A**, **112A**, **111B**, **111C**: Various mounting brackets and plates.
- 35**, **199**: Screws used for assembly.
- 111**: A small triangular bracket.
- 201**, **204A**, **201A**, **205**, **204**: A large circular component with associated mounting hardware.
- 206**, **206A**: Small pins or screws.
- 112B**, **111A**: Additional mounting brackets.
- 210**: A large L-shaped bracket.
- 202**, **203**: A long bracket with a pin.
- 114A**: A rectangular component, possibly a battery or a sensor module.
- 118**, **117**, **117A**, **117B**: Various small pins, screws, and fasteners.

Dashed lines indicate the assembly sequence and the relative positions of the components.



Ref #	Part Number	Qty	Description
35	26073		Washer, Flat (Use as required)
35	650570		Washer, Flat (Use as required)
35	650691		Washer, Flat (Use as required)
36	650697A		Screw, 5/16-18 x 2-1/2" (Use as required)
36	650695A		Screw, 5/16-18 x 2-1/4" (Use as required)
36	650694A		Screw, 5/16-18 x 2" (Use as required)
38	27896A		* Gasket, Breather cover
81	30196		Screw, 5/16-18 x 3/4" (Use as required)
81	28820		Screw, 10-32 x 1/2" (Use as required)
81	650521		Screw, 10-32 x 1-1/8" (Use as required)
86A	34697		Air Cleaner Elbow Assy.(Use in 730561 only.)
89A	730128		Air Cleaner Ass'y. (Incl. 82,90A,90B,90D thru 90G,97 & 298B) (Use as req.)
111A	31694		Bracket, Lower fuel tank
117	28584		Fitting, Fuel strainer & elbow
121E	391026		Muffler (Incl. 124, 124A & 124B) (This spark arrester muffler can be used on any model)
124A	33171		Muffler Screen (Use as required)
124B	33185		Cover & Tube, Muffler (Use as required)
124	650578		Screw, 8-18 x 3/8"
125	27930A		* Gasket, Exhaust
134	31288		Muf.Adapter Kit(Incl.125,136,137)(As req.)
135	730130		Muf.Adapter Kit(Incl.125 & 138)(As required)
136	6021A		Screw, 5/16-18 x 1-1/2" (Use as required)
137	650697A		Screw, 5/16-18 x 2-1/2" (Use as required)
138	30196		Screw, 5/16-18 x 3/4" (Use as required)
201B	31697		Strap, Fuel tank
202	29212		Screw, 1/4-28 x 7/16"
203	6201		Screw, Hex hd. cap, 1/4-28 x 7/8
210	29752		Nut & Lockwasher, 1/4-28
233	34819		Air Cleaner Elbow (Incl.44,76,78,83A,86A,100)(Use in 730561 ass'y. only)
234	730561		Air Cleaner Kit (Incl.38,43,44,76,78,79,82,83A,84,84C,86A,87,90,100A,233,29 (Use only on engines with an externally vented fully adjustable carburetor.)
273	650687		Screw, 10-32 x 5/16" (Use as required)
274A	650765		Screw, 10-32 x 1/2"
274	650257		Screw, 8-32 x 5/16"
275	33134		Cover, Carburetor
276	610650B		Switch, Toggle (Incl. 232)
278	32398		Bracket, Choke
279	28820		Screw, 10-32 x 1/2"
280A	650764		"U" Clip Nut
280	650760		Screw, 8-32 x 3/8"
281	31291		Plug, Cover
282	32397		Plate Assy., Choke
283	32399		Spring, Choke knob
284	32400		Knob, Choke
298F	33135		Decal, Operating

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



Ref #	Part Number	Qty	Description
37	650128		Screw, 10-24 x 1/2" (Use as required)
37	650597		Screw, 10-24 x 5/8" (Use as required)
37A	27261		Washer, Flat (Use as required)
41	28425		Cover, Valve spring
43A	35350		Tube, Breather
56	30824		Link, Throttle
69	29747B		Screw, 5/16-24 x 21/32"
98	28569		Compression Spring (Used with 29500 screw)(Use as required)
98	32924		Compression Spring (Used with 650688 screw) (Use as required)
98	31342		Compression Spring (Used with 650549 screw) (Use as required)
99	650549		Screw, 5-40 x 7/16" (Use as required)
99	29500		Screw, 8-32 x 3/4" (Use as required)
99	650688		Screw, 10-32 x 1 (Use as required)
182	32683A		Gasket, Fuel pump cover (Use as required)
183	32955		Cover, Fuel pump pad (Use as required)
184	9556		Plug, Pipe 1/8-27 (Use as required)
185	30063		Screw, 1/4-20 x 1/2" (Use as required)
189	650736		Screw, 10-16 x 3/8"
190	33013		Cover, Starter bubble
220	34126		Bracket, Grommet mounting
221	28545		Grommet, Plastic
222	650760		Screw, 8-32 x 3/8"
224A	30826		Spring, Extension
225A	33109A		Control Bracket (Incl. 224A & 226)
225	730152		Control Bracket(Incl.91 thru 97)(As required)
226	610973		Terminal Assy.
227	33177		Terminal (Use as required)
229	28942		Screw, 10-32 x 3/8"
230	27793		Clip, Conduit
238	32576		Seal, Snow guard
239	31680		Guard, Starter
262	29716		Screw, 1/4-28 x 7/16"
266	650815		Washer, Belleville
267	8116		Nut, Hex
298E	31683		Decal, Choke
298C	32187		Decal, "Super-start"
305	33018		Harness Assy., Adapter (Use as required)
306	590473		Rewind Starter (Refer to Division 5, Section C, page 29 for breakdown)
308	33328D		Starter Motor Kit (110-120 Volt) NOTE: This 110-120 volt starter motor kit may have been added to this engine. This can be added only if cylinder has drilled and tapped starter mounting bosses and a ring gear flywheel has been added (see #309). Refer to service number stamped on end cap of motor,
309	30811A		Flywheel (Ring gear flywheel required on engines using 110-120 volt starter motor kits listed above.)