



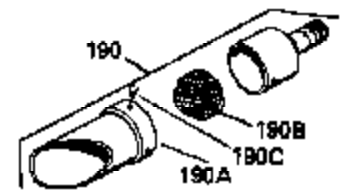
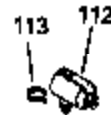
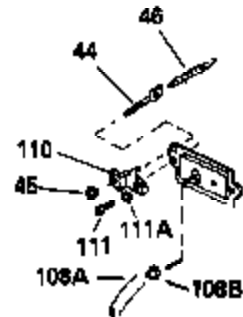
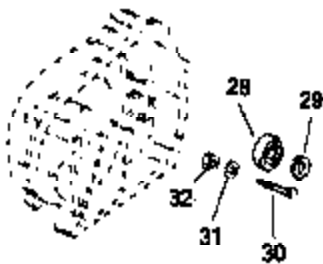
Ref #	Part Number	Qty	Description
1	35488		Cylinder (Incl. 3,4,4A,5)(3-1/8")(CI liner)
3	27642		Plug, Pipe (1/4-18)
4A	35400		Bushing, Crankshaft
4	35319		Seal, Oil
5	27652		Pin, Dowel
6	29536		Blower Housing Baffle (No knock-out for electric start) (Use as required)
6	35256A		Blower Housing Baffle (With knock-out for electricstart) (Use as required)
6	35326		Baffle, Blower housing
7	650561		Screw, 1/4-20 x 5/8"
8	35442B		Crankshaft
8A	29783		Crankshaft Gear Pin (Used on early pr od.)
8B	33245		Crankshaft Gear (Used on early produc tion)
9A	34329A		Piston & Pin Ass'y. (Std.)(Incl.10)(3 -1/8")
9A	34330A		Piston & Pin Ass'y. (.010" OS) (Incl. 10)
9A	34331A		Piston & Pin Ass'y. (.020" OS) (Incl. 10)
9	34552		Piston, Pin & Ring Set (Std.) (3-1/8")
9	34553		Piston, Pin & Ring Set (.010" OS)
9	34554		Piston, Pin & Ring Set (.020" OS)
10	27888		Ring, Piston pin retaining
11	34332		Ring Set (Std.) (3-1/8" Bore)
11	34333		Ring Set (.010" OS)
11	34334		Ring Set (.020" OS)
17	35373A		Rod Assy., Connecting (Incl. 18, 19 & 19A)
18	35374		Dipper, Oil
18A	32590		Plate, Lock & Oil dipper (This plate may be replaced by No. 34242 oil dipper but No. 650662C screw must be used.)
19	650908		Bolt, Connecting rod (1 pc.)
19A	650882		Bolt, Connecting rod (2 pcs. on early production;1 pc. on current production)
20	34034		Lifter, Valve
21	35375		Camshaft (MCR)
22	33273A		Extension, Blower housing
23	650128		Screw, 10-24 x 1/2"
24	35262		* Gasket, Cylinder cover
25	35376		Cover, Cylinder (Incl. 26, 27, 37, 58 A & 59)
26	35377		Bushing, Crankshaft
27	35319		Seal, Oil
33	30699C		Rod Assy., Governor (Incl. 34 & 35)
33A	30699B		Rod, Governor (This one piece governor rod is no longer used. It is replaced by No. 30699C assembly, Ref. No. 5A.)
34	30700		Yoke, Governor
35	650494		Screw, 6-40 x 5/16"
36	29642		Ring, Retaining
37	31845		Shaft, Mechanical governor
38	30588A		Spool, Governor
39	30590A		Washer, Flat
40	29193		Ring, Retaining
41	35378		Gear Assy., Governor (Incl. 39)
42	33369		Bracket, Governor gear
43	650836		Screw, 10-24 x 1/2"
49	29916		Clamp, Governor lever
50	29826		Screw, 10-32 x 3/4"
51	29216		Locknut, 10-32

Ref #	Part Number	Qty	Description
52	33454		Lever Assy., Governor
53	29918		Lockwasher, No. 8 E.T.
54	650548		Screw, 8-32 x 5/16"
55	30322		Locknut, 8-32
56	650832		Screw, 1/4-20 x 1-11/16"
57	650833		Screw, 1/4-20 x 1-3/16"
58	34974		Dipstick (Incl. 59)
59	29673		* Gasket, Oil fill
66	27878A		Exhaust Valve (Std.) (Incl. 70)
66	27880A		Exhaust Valve (1/32" OS) (Incl. 70)
67	34035		Intake Valve (Std.) (Incl. 70)
67	34036		Intake Valve (1/32" OS) (Incl. 70)
68A	34689		Seal, Assy., Intake valve
68	27882		Cap, Upper valve spring
69	27881		Spring, Valve
70	32581		Cap, Lower valve spring
76	32589		Key, Flywheel
77A	27275		Clip, Hi tension wire
77B	35558		Retainer, Wire
77	29443		Clip, Fuel line
78	611093		Flywheel (3 amp, w/ring gear)
79	650880		Washer, Lock
80	650881		Nut, Hex, 5/8-18
81	650872		Stud, Solid State mounting
82A	610118		Cover, Spark plug (Use as required)
82	35135		Solid State Assy.
83	650814		Screw, Torx T-15, 10-24 x 1"
95	35557		Ground Wire
96	34041A		* Gasket, Cylinder head
97	34030		Head, Cylinder
98	650692		Screw, 5/16-18 x 1-3/4" (Use as required)
98	6021A		Screw, 5/16-18 x 1-1/2" (Use as required, but do not use No. 650691 washer.)
98	650711		Screw, 5/16-18 x 1-5/8" (Use as required) (Can use No. 6021A but discard No. 650691 washer.)
99	33636		Resistor Spark Plug (RJ-8C)
100	650691		Washer (Use as req.) (Do not use w/60 21A)
101	650727		Screw, 5/16-18 x 1-3/4" (Use as required)
102	650690		Washer, Belleville
103	650694A		Screw, 5/16-18 x 2"
104	27896A		* Gasket, Breather
105	28423		Body, Breather
106	28424		Element, Breather
107	28425		Cover, Breather
109	650128		Screw, 10-24 x 1/2"
114	29752		Nut, Whiz lock, 1/4-28
115	26756		Gasket, Carburetor
117	34707		Pipe, Intake
119	650378		Screw, Torx T-30, 5/16-18 x 1-1/8"
120	27915A		* Gasket, Intake
130	34833A		Blower Housing (For electric starter)
133	34664		Control Bracket (Incl. 134, 135, 136 & 138)
134	31342		Spring, Compression
135	650549		Screw, 5-40 x 7/16"
136	610973		Terminal Assy. (Use as required)
137	650821		Screw, 10-32 x 1/2"
138	34663		Spring, Speed control

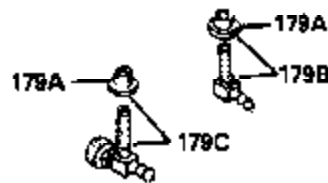
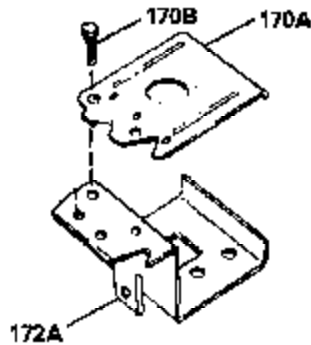
Engine Parts List #1

Ref #	Part Number	Qty	Description
139	34667		Link, Governor
141	27793		Clip, Conduit
142	28942		Screw, 10-32 x 3/8"
144	29747B		Screw, 5/16-24 x 21/32"
153	28545		Grommet, Plastic
154	650760		Screw, 8-32 x 3/8"
158	34586		Rod, Choke
168	33272A		Cover, Cylinder head
169	650737		Screw, 1/4-20 x 1/2" (Use as required)
169	650738		Screw, 1/4-20 x 5/8" (Use as required)
169	650713		Screw, 5/16-18 x 5/8" (Use as require d)
169	650802		Screw, 1/4-20 x 5/8" (Use as required)
170	34154		Plate, Upper fuel tank mounting
171	650713		Screw, 5/16-18 x 5/8" (Use as require d)
172	34155		Bracket Assy., Lower fuel tank mtg.
173	650561		Screw, 1/4-20 x 5/8"
174	650665		Screw, 1/4-15 x 7/8"
175	34186A		Fuel Tank (Incl. 176 & 178) NOTE: These tanks were built with different size fuel inlet openings. Tanks with the 1-3/16" I.D. opening use fuel cap 33032 or 34210. Tanks with the 1-1/2" I.D. opening use fuel cap 35355.
176	33032		Fuel Cap (Red Plastic) (Spurt Resistant, Low Profile) (Use as required)
176	410144B		Fuel Cap (White Plastic) (Std) (Use a s req.)
176	34210		Fuel Cap (Ref Plastic) (Spurt Resistant, High Profile) (Use as required)
176	35355		Fuel Cap (Red Plastic) (Use as requir ed)
177	29774		Fuel Line (Use as required) (8.25") (21 cm)
177	30705		Fuel Line (Use as required) (16.0") (41 cm)
177	30962		Fuel Line (32.0") (81 cm)
178	26460		Clamp, Fuel line (Use as required)
186	27930A		* Gasket, Exhaust (Use as required)
187	33280A		Muffler
188	31588		Plate, Muffler locking
189	650729		Screw, 5/16-18 x 3-3/16"
194	35287		Cup, Starter
195A	35446		Screen, Starter (Stationary)
196	29752		Nut, Whiz lock, 1/4-28
199	35392		Plug, Starter
260G	35532		Decal, Name
273	631021		Inlet Needle, Seat & Clip Assy.
274	632464		Carburetor (Incl. 115) (Refer to Division 5, Section A, page 186 for breakdown)
276	590633		Rewind Starter (Refer to Division 5, Section C, page 30 for breakdown)
280	33279G		* Gasket Set (Incl. items marked *)

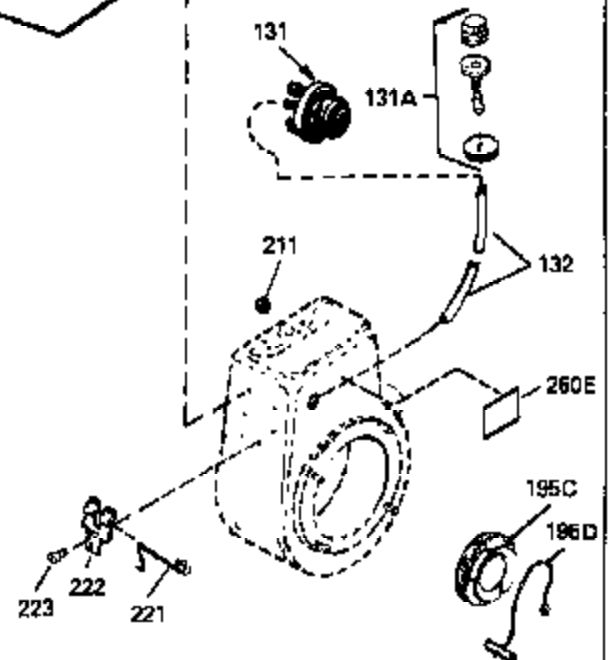
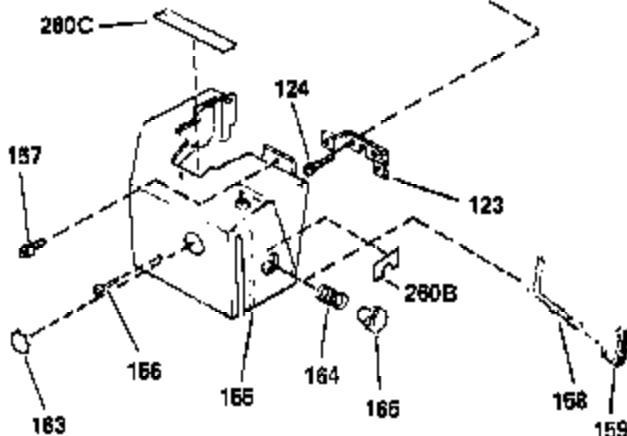
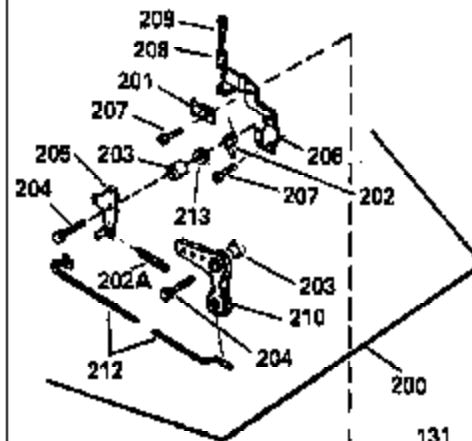
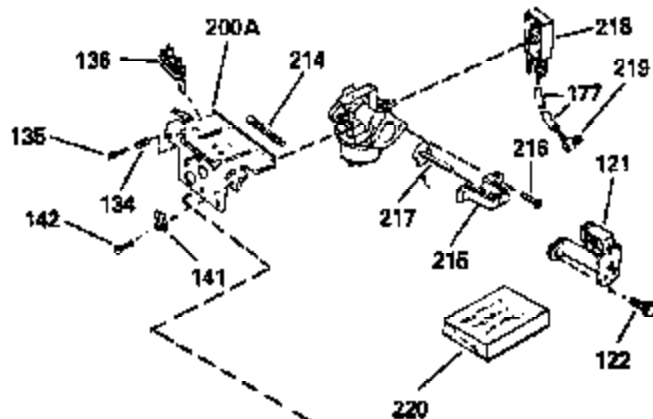
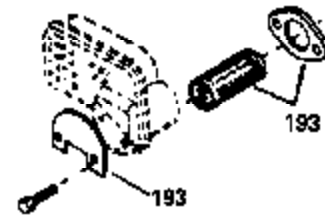
ILLUSTRATION SHOWS TYPICAL PARTS ONLY. ORDER BY PART NUMBER, PARTS NOT LISTED ARE SUPPLIED BY OEM.



OPTIONAL
SPARK ARRESTOR MUFFLER



OPTIONAL SPARK ARRESTOR KIT



Engine Parts List #2

Ref #	Part Number	Qty	Description
108A	34696		Tube, Breather
108B	32446		Grommet, Breather tube
134	31342		Spring, Compression
135	650549		Screw, 5-40 x 7/16"
136	610973		Terminal Assy. (Use as required)
141	27793		Clip, Conduit
142	28942		Screw, 10-32 x 3/8"
158	34586		Rod, Choke
177	29774		Fuel Line (Use as required) (8.25") (21 cm)
177	30705		Fuel Line (Use as required) (16.0") (41 cm)
177	30962		Fuel Line (32.0") (81 cm)
190B	33323		Screen, Muffler (Use as required)
190C	650578		Screw, 8-18 x 3/8" (Use as required)
190	391026		Muffler (Incl. 190A, 190B & 190C) (This spark arrestor muffler can be used on any model)
190A	33700		Cover & Tube, Muffler (Use as required)
193	34479		Spark Arrestor Kit (Fits "L" shaped mufflers)
260B	34704		Decal, Air cleaner

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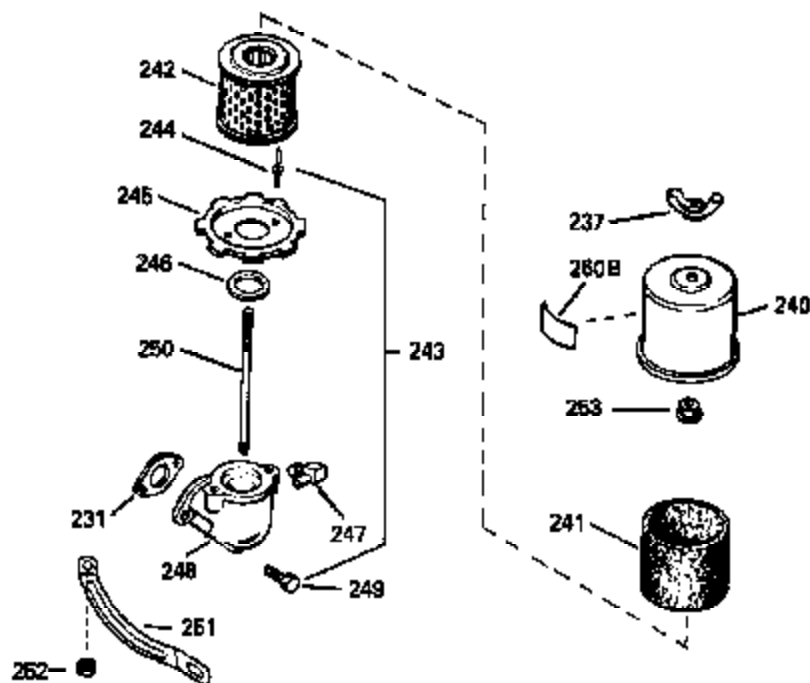
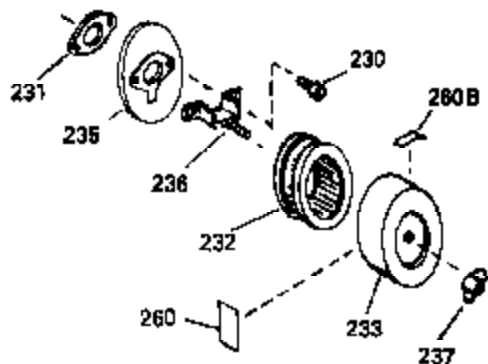
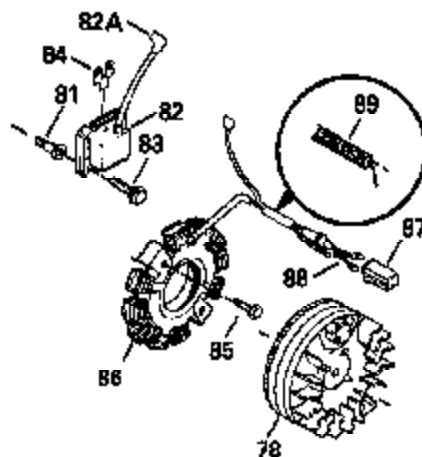
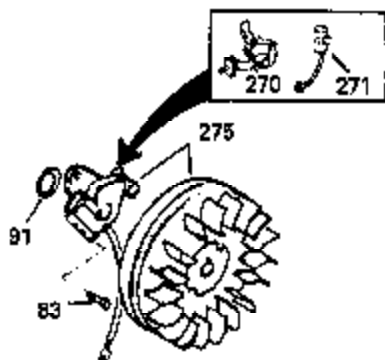
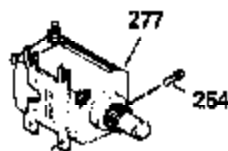


Diagram showing the connection of the air filter (279) to the air intake system (278).



255

255A

255B

— 255C

Ref #	Part Number	Qty	Description
78	611093		Flywheel (3 amp, w/ring gear)
81	650872		Stud, Solid State mounting
82	35135		Solid State Assy.
82A	610118		Cover, Spark plug (Use as required)
83	650814		Screw, Torx T-15, 10-24 x 1"
84	33177		Terminal
85	650873		Screw, 1/4-20 x 3/4"
86	611113		Alt.Coil (3 amp. D.C.) (Incl. 87, 88 & 89)
87	610921		Connector
88	610922		Terminal
89	610935		Diode Assy.
231	27272A		* Gasket, Air cleaner
237	650513		Nut, Wing, 1/4-20
243	35044		Air Cleaner Elbow Assy.(Incl.244,245, 246,250)
244			Pop Rivet (1/8" dia.) (Can be bought locally)
245	34699		Bracket, Air cleaner
246	34698A		* Gasket, Air cleaner elbow
247	30675		Fitting, Breather tube
248	34697		Elbow, Air cleaner
249	650163		Screw, 10-32 x 7/8"
250	650851		Stud, 1/4-20 x 8.1
251	35045		Bracket, Air cleaner
252	650852		Nut, 1/4-20
253	650825		Nut & Lockwasher, 1/4-20
254	30063		Screw, 1/4-20 x 1/2"
255C	34870		Instruction Decal Can be used on HM70 with diecast starter.
255B	34869		Bracket, Starter air cleaner Can be used on HM70 with diecast starter
255A	34687		Air Cleaner, Starter Can be used on HM70 with diecast starter
255	730572		Starter Muff Kit (Incl. 255A, 255B, & 255C) Can be used on HM70 with diecast starter
256B	35569		Spacer, Screen Can be used on HM70 with stamped steel recoil starter
256A	35568		Debris Screen Can be used on HM70 with stamped steel recoil starter
256	730573		Debris Screen Kit (Incl. 256A thru 25 6E) Can be used on HM70 with stamped steel recoil starter
256E	34387		Instruction Decal Can be used on HM70 with stamped steel recoil starter.
256D	650907		Screw, 5/16-18 x 1-5/8" Can be used on HM70 with stamped steel recoil starter
256C	35570		Seal, Screen Can be used on HM70 with stamped steel recoil starter
260B	34704		Decal, Air cleaner
277	33605		Electric Starter Motor (12 Volt) (Refer to Division 5, Section D, page 20 for breakdown)

Ref #	Part Number	Qty	Description
278	33329D		Starter Motor Kit (110-120 Volt) This 110-120 volt starter motor kit may have been added to this engine. It can be added only if cylinder has drilled and tapped starter mounting bosses and a ring gear flywheel has been added (see #279). Refer to service number stamped on end cap of motor, or decal for
279	610847		Flywheel (Ring gear flywheel required on engine using 110-120 Volt starter motor kits listed above.) (Use on Std. point ignition)
279	611091		Flywheel (Minimum ring gear flywheel required on engine using 110-120 Volt starter motor kits listed above.) (Use on Solid State ignition)