

Ref #	Part Number Qtv	Description
	33311B	Cylinder (Incl. 2, 3, 4 & 41)(2-5/8" Bore)
	27652	Pin, Dowel
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	27642	Pipe plug, 1/4-18
	27876B	Seal, Oil
5	29536	Blower Housing Baffle (Without electric starter knock out)
		(Use as required)
5	35256A	Blower Housing Baffle (With electric starter knockout) (As
		req.)(point ign.)
	650561	Screw, 1/4-20 x 5/8"
7	29538	Base, Engine mounting
8	650542	Screw, 5/16-18 x 3/4"
9	31856A	Crankshaft
	29783	Pin, Crankshaft gear (Used on early p rod.)
	27884	Gear, Crankshaft (Used on early production) This gear is
***	27004	serviceable ONLY when it is pinned to the crankshaft.
13	34531	Piston, Pin & Ring Set (Std.) (2-5/8" Bore)
13	34532	Piston, Pin & Ring Set (.010" OS)
13	34533	Piston, Pin & Ring Set (.020" OS)
	33312B	Piston & Pin Ass'y. (Std.)(2-5/8")(In cl.14)
	33313B	Piston & Pin Ass'y. (.010" OS) (Incl. 14)
	33314B	
		Piston & Pin Ass'y. (.020" OS) (Incl. 14)
	27888	Ring, Piston pin retaining
	34854	Ring Set (Std.) (2-5/8" Bore)
15	34855	Ring Set (.010" OS)
15	34856	Ring Set (.020" OS)
	31380C	Rod Assy., Connecting (Incl. 17)
	650662C	Bolt, Connecting rod (Incl. 2 pieces)
	34034	Lifter, Valve
	30622A	
		Extension, Blower housing
	650128	Screw, 10-24 x 1/2"
	650561	Screw, 1/4-20 x 5/8" (Use as required)
	30063	Screw, 1/4-20 x 1/2" (Use as required)
23	30684	Gasket Cylinder Cover
24	31303B	Cover, Cylinder (Incl. 26 & 34)
	31546	Bushing, Crankshaft
	28427	Seal, Oil
	650488	Screw, 1/4-20 x 1-1/4"
	650493	Screw, 1/4-20 x 1-1/4 Screw, 1/4-20 x 1-3/4"
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	30699C	Rod Assy., Governor (Incl. 30 & 31)
	30700	Yoke, Governor
	650494	Screw, 6-40 x 5/16"
	29642	Ring, Retaining
34	31845	Shaft, Mechanical governor
35	30588A	Spool, Governor
	35479	Washer, Flat
	29193	Ring, Retaining
	30591	Gear Assy., Governor
	31843A	Bracket, Governor gear
	650836	Screw, 10-24 x 1/2"
	32783	Intake Valve (Std.)
41	32784	Intake Valve (1/32" OS)
42	27878A	Exhaust Valve (Std.)
	27880A	Exhaust Valve (1/32" OS)
	27882	Cap, Upper valve spring
	27881	Spring, valve
45	32581	Cap, Lower valve spring

## Part Number Opt Description ## 6 33876	Def #	Dowl Mi wash ou	Description
47 650489 Screw, 14-20 x 56° for Mire 48 34240 Ground Wire 48 34240 Ground Wire 49 30884 Key, Flywheel 50A 30968 Nipole, Oil drain 14" x 2-1/2" Cap. 30968 Sp. 30969 Cap, Oil drain 14" x 2-1/2" Cap. 30969 Cap, Oil drain 14" x 2-1/2" Cap. 30938A Head, Cylinder head 48-60 Cap. 61 drain 53 34251 Resistor Spark Plug (RJ-17LM) Cover, Spark pl			Description Coolean States
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72 610973 74 27896A 75 28423	71	28942	•
75 28424 Element, Breather 77 28425 Cover, Valve spring box 78 650128 Screw, 10-24 x 1/2" 79 35350 Tube Breather 81 29752 Nut & Lockwasher, 1/4-28 82 27915A * Gasket, Intake pipe to cylinder 83 30195A Flange, Carburetor (Incl. 81 & 86) 84 30196 Screw, 5/16-18 x 3/4" 85 31688A * Gasket, Carburetor 86 650572 Screw, 1/4-28 x 1-1/8" 87 27272A * Air Cleaner Gasket (Use as required) 87 30767 Spacer, Cleaner (Use as required) 94A 34819 Elbow Assy., Air cleaner (Incl. 90,91,92,93,94,96) (Use in 730561 assembly only) 101 34158 Bracket, Fuel tank 102 650665 Screw, 1/4-14 x 7/8" 103 34159 Plate, Fuel tank mounting 104 34186A Fuel Tank (Incl. 105 & 107) NOTE: These tanks were built with different size fuel inlet openings. Tanks with the 1-3/16" I.D. opening use fuel cap 35032 or 34210. Tanks with the 1-1/2" I.D. opening use fuel cap 350355.	72	610973	Terminal Assy. (Use as required)
Flement, Breather Cover, Valve spring box	74	27896A	Gasket, Valve chamber cover
77 28425	75	28423	Breather Assy., Valve
Screw, 10-24 x 1/2" Tube Breather Strew, 10-24 x 1/2" Strew, 27915A Strew, 27915A Strew, 27915A Strew, 27915A Strew, 5/16-18 x 3/4" Strew, 5/16-18 x 3/4" Strew, 5/16-18 x 3/4" Strew, 5/16-18 x 3/4" Strew, 1/4-28 x 1-1/8" Strew, 1/4-14 x 7/8" Strew, 1/4-14 x 1/8" Strew, 1/4-18	76	28424	Element, Breather
79 35350 Tube Breather 81 29752 Nut & Lockwasher, 1/4-28 82 27915A * Gasket, Intake pipe to cylinder 83 30195A Flange, Carburetor (Incl. 81 & 86) 84 30196 Screw, 5/16-18 x 3/4" 85 31688A * Gasket, Carburetor 86 650572 Screw, 1/4-28 x 1-1/8" 87 27272A * Air Cleaner Gasket (Use as required) 87 30767 Spacer, Cleaner (Use as required) 94A 34819 Elbow Assy., Air cleaner (Incl. 90,91,92,93,94,96) (Use in 730561 assembly only) 101 34158 Bracket, Fuel tank 102 650665 Screw, 1/4-14 x 7/8" 103 34159 Plate, Fuel tank mounting 104 34186A Fuel Tank (Incl. 105 & 107) NOTE: These tanks were built with different size fuel inlet openings. Tanks with the 1-3/16" I.D. opening use fuel cap 35355. 105 410144B Fuel Cap (White Plastic)(Std.)(As req uired) 105 33032 Fuel Cap (Red Plastic) (Spurt resistant, Low profile) (Use as	77	28425	Cover, Valve spring box
81 29752 Nut & Lockwasher, 1/4-28 82 27915A * Gasket, Intake pipe to cylinder 83 30195A Flange, Carburetor (Incl. 81 & 86) 84 30196 Screw, 5/16-18 x 3/4" 85 31688A * Gasket, Carburetor 86 650572 Screw, 1/4-28 x 1-1/8" 87 27272A * Air Cleaner Gasket (Use as required) 87 30767 Spacer, Cleaner (Use as required) 94A 34819 Elbow Assy., Air cleaner (Incl. 90,91,92,93,94,96) (Use in 730561 assembly only) 101 34158 Bracket, Fuel tank 102 650665 Screw, 1/4-14 x 7/8" 103 34159 Plate, Fuel tank mounting 104 4186A Fuel Tank (Incl. 105 & 107) NOTE: These tanks were built with different size fuel inlet openings. Tanks with the 1-3/16" 1.D. opening use fuel cap 33032 or 34210. Tanks with the 1-1/2" I.D. opening use fuel cap 35355. 105 410144B Fuel Cap (White Plastic)(Std.)(As req uired) 105 33032 Fuel Cap (Red Plastic) (Spurt resistant, Low profile) (Use as	78	650128	Screw, 10-24 x 1/2"
* Gasket, Intake pipe to cylinder * Gasket, Intake pipe to cylinder * Gasket, Intake pipe to cylinder * Flange, Carburetor (Incl. 81 & 86) * Screw, 5/16-18 x 3/4" * Gasket, Carburetor * Gasket, Carburetor * Gasket, Carburetor * Screw, 1/4-28 x 1-1/8" * Air Cleaner Gasket (Use as required) * Spacer, Cleaner (Use as required) * Spacer, Cleaner (Incl. 90,91,92,93,94,96) (Use in 730561 assembly only) * Bracket, Fuel tank * Screw, 1/4-14 x 7/8" * Plate, Fuel tank mounting * Fuel Tank (Incl. 105 & 107) 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. * Fuel Cap (White Plastic) (Std.) (As req uired) * Fuel Cap (Red Plastic) (Spurt resistant, Low profile) (Use as	79	35350	Tube Breather
Flange, Carburetor (Incl. 81 & 86) 84 30196 Screw, 5/16-18 x 3/4" 85 31688A * Gasket, Carburetor 86 650572 Screw, 1/4-28 x 1-1/8" 87 27272A * Air Cleaner Gasket (Use as required) 87 30767 Spacer, Cleaner (Use as required) 94A 34819 Elbow Assy., Air cleaner (Incl. 90,91,92,93,94,96) (Use in 730561 assembly only) 101 34158 Bracket, Fuel tank 102 650665 Screw, 1/4-14 x 7/8" 103 34159 Plate, Fuel tank mounting 104 34186A Fuel Tank (Incl. 105 & 107) NOTE: These tanks were built with different size fuel inlet openings. Tanks with the 1-3/16" 1.D. opening use fuel cap 33032 or 34210. Tanks with the 1-1/2" I.D. opening use fuel cap 35355. 105 410144B Fuel Cap (White Plastic) (Std.) (As req uired) Fuel Cap (Red Plastic) (Spurt resistant, Low profile) (Use as	81	29752	Nut & Lockwasher, 1/4-28
84 30196 Screw, 5/16-18 x 3/4" 85 31688A * Gasket, Carburetor 86 650572 Screw, 1/4-28 x 1-1/8" 87 27272A * Air Cleaner Gasket (Use as required) 87 30767 Spacer, Cleaner (Use as required) 94A 34819 Elbow Assy., Air cleaner (Incl. 90,91,92,93,94,96) (Use in 730561 assembly only) 101 34158 Bracket, Fuel tank 102 650665 Screw, 1/4-14 x 7/8" 103 34159 Plate, Fuel tank mounting 104 34186A Fuel Tank (Incl. 105 & 107) 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. 105 410144B Fuel Cap (White Plastic)(Std.)(As req uired) 105 33032 Fuel Cap (Red Plastic) (Spurt resistant, Low profile) (Use as	82	27915A	* Gasket, Intake pipe to cylinder
84 30196 Screw, 5/16-18 x 3/4" 85 31688A * Gasket, Carburetor 86 650572 Screw, 1/4-28 x 1-1/8" 87 27272A * Air Cleaner Gasket (Use as required) 87 30767 Spacer, Cleaner (Use as required) 94A 34819 Elbow Assy., Air cleaner (Incl. 90,91,92,93,94,96) (Use in 730561 assembly only) 101 34158 Bracket, Fuel tank 102 650665 Screw, 1/4-14 x 7/8" 103 34159 Plate, Fuel tank mounting 104 34186A Fuel Tank (Incl. 105 & 107) 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. 105 410144B Fuel Cap (White Plastic)(Std.)(As req uired) 105 33032 Fuel Cap (Red Plastic) (Spurt resistant, Low profile) (Use as	83	30195A	Flange, Carburetor (Incl. 81 & 86)
86 650572 Screw, 1/4-28 x 1-1/8" 87 27272A * Air Cleaner Gasket (Use as required) 87 30767 Spacer, Cleaner (Use as required) 94A 34819 Elbow Assy., Air cleaner (Incl. 90,91,92,93,94,96) (Use in 730561 assembly only) 101 34158 Bracket, Fuel tank 102 650665 Screw, 1/4-14 x 7/8" 103 34159 Plate, Fuel tank mounting 104 34186A Fuel Tank (Incl. 105 & 107) 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. 105 410144B Fuel Cap (White Plastic)(Std.)(As req uired) 105 33032 Fuel Cap (Red Plastic) (Spurt resistant, Low profile) (Use as	84	30196	Screw, 5/16-18 x 3/4"
86 650572 Screw, 1/4-28 x 1-1/8" 87 27272A * Air Cleaner Gasket (Use as required) 87 30767 Spacer, Cleaner (Use as required) 94A 34819 Elbow Assy., Air cleaner (Incl. 90,91,92,93,94,96) (Use in 730561 assembly only) 101 34158 Bracket, Fuel tank Screw, 1/4-14 x 7/8" 102 650665 Screw, 1/4-14 x 7/8" 103 34159 Plate, Fuel tank mounting 104 34186A Fuel Tank (Incl. 105 & 107) 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. 105 410144B Fuel Cap (White Plastic)(Std.)(As req uired) 105 33032 Fuel Cap (Red Plastic) (Spurt resistant, Low profile) (Use as	85	31688A	* Gasket, Carburetor
* Air Cleaner Gasket (Use as required) \$7 30767 \$94A 34819 \$101 34158 \$102 650665 \$103 34159 \$104 34186A \$105 410144B \$105 33032 \$108 Assp., Air Cleaner (Gasket (Use as required)) \$105 410144B \$107 Spacer, Cleaner (Use as required) \$108 Spacer, Cleaner (Incl. 90,91,92,93,94,96) (Use in 730561 assembly only) \$109 Plate, Fuel tank \$100 Spacer, Cleaner (Use as required) \$100 Plate, Fuel tank \$100 Plate, Fuel tank mounting \$100 Plate,	86	650572	
Spacer, Cleaner (Use as required) Elbow Assy., Air cleaner (Incl. 90,91,92,93,94,96) (Use in 730561 assembly only) 101 34158 Bracket, Fuel tank 102 650665 Screw, 1/4-14 x 7/8" 103 34159 Plate, Fuel tank mounting 104 34186A Fuel Tank (Incl. 105 & 107) 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. 105 410144B Fuel Cap (White Plastic) (Std.) (As req uired) Fuel Cap (Red Plastic) (Spurt resistant, Low profile) (Use as	87	27272A	
Elbow Assy., Air cleaner (Incl. 90,91,92,93,94,96) (Use in 730561 assembly only) 101 34158	87	30767	
730561 assembly only) 101 34158 Bracket, Fuel tank 102 650665 Screw, 1/4-14 x 7/8" 103 34159 Plate, Fuel tank mounting 104 34186A Fuel Tank (Incl. 105 & 107) 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. 105 410144B Fuel Cap (White Plastic)(Std.)(As req uired) Fuel Cap (Red Plastic) (Spurt resistant, Low profile) (Use as			
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103 34159 104 34186A Plate, Fuel tank mounting Fuel Tank (Incl. 105 & 107) 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. Fuel Cap (White Plastic)(Std.)(As req uired) Fuel Cap (Red Plastic) (Spurt resistant, Low profile) (Use as			·
Fuel Tank (Incl. 105 & 107) 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. Fuel Cap (White Plastic)(Std.)(As req uired) Fuel Cap (Red Plastic) (Spurt resistant, Low profile) (Use as			·
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1-1/2 I.D. opening use fuel cap 35355. 105 410144B Fuel Cap (White Plastic)(Std.)(As req uired) 105 33032 Fuel Cap (Red Plastic) (Spurt resistant, Low profile) (Use as			
105 410144B Fuel Cap (White Plastic)(Std.)(As req uired) 105 33032 Fuel Cap (Red Plastic) (Spurt resistant, Low profile) (Use as			
105 33032 Fuel Cap (Red Plastic) (Spurt resistant, Low profile) (Use as			1-1/2 1.D. Opening use ruer cap 30300.
	105	410144B	
required)	105	33032	Fuel Cap (Red Plastic) (Spurt resistant, Low profile) (Use as
			required)

		Description
105 3	4210	Fuel Cap (Red Plastic) (Spurt resistant, High profile) (Use as required)
105 3	5355	Fuel Cap (Red plastic) (Use as requir ed)
106 29		Fuel Line (Braided, 8 1/4") (Use as r equired)
106 30		Fuel Line (Braided, 32") (Use as required)
107 20		Clamp, Fuel line (Use as required)
108 3		Blower Housing (For electric starter)
109 29		Screw, 5/16-24 x 21/32"
110 2		* Gasket, Exhaust flange
111 3		Muffler
111D 3		Opt.Spark Arrest Muf.(Incl.112,143,14 4,144A)
111E 3		Deflector, Exhaust (Optional)
111C 3		Opt.Spark Arrest Muf.(Incl.143,143A,1 43B)
112 30		Screw, 5/16-18 x 3/4"
113 20		Washer, Flat
	50694A	Screw, 5/16 - 18 x 2"
115 3		Cup, Starter
116 59		Screen, Starter cup
117 6		Washer, Belleville
118 8		Nut, Hex
119 29		Screw, 1/4-28 x 7/16"
137 3		Knob, Speed control
143 6		Screw, 8-18 x 3/8" (Use as required)
143A 3		Screen, Muffler (Use as required)
143B 3		Cover & tube, Muffler (Use as require d)
144A 3		Screen, Muffler (Use as required)
144 3		Cover & Tube, Muffler (Use as require d)
145 3		Dipstick (Incl. 146)
146 3		"O" Ring
147 3		Oil Fill Tube
148A 5		Primer Assy.
149 3		Line, Primer
151 3		Cover, Carburetor
152 3		Plug, Cover
153 6		Nut, "U" Clip
154 6		Screw, 8-32 x 3/8"
155 3		Bracket, Grommet mounting
156 6		Screw, 8-32 x 5/16"
157 6		Screw, 10-32 x 1/2"
158 28		Screw, 10-32 x 1/2"
159 3		Bracket, Choke
160 6		Screw, 8-32 x 3/8"
161 28		Grommet, Plastic
162 3		Guard, Starter
163 3		Seal, Snow Guard
164 3		Cover, Starter bubble
167 3		Deflector, Exhaust
168 6		Screw, 1/4-15 x 7/8"
182 3		Valve, Fuel shut off
201B 7		Air Cleaner Kit
2010 7	00001	(Incl.74,79,80,87,88,89,90,91,92,94,95,96,97,99,100 & 230C)
		(Used only on engine with an externally vented fully
		adjustable carburetor)
		•
201 73	30164	Air Cleaner Ass'y. (Red Poly)(Incl.87,120,121,122,123,124 &
		230)(As req.)

Ref #	Part Number	Qtv	Description
	730164		Air Cleaner Kit, Mini bike (Incl.87,120,121,122,123 & 124)
			(Use as required)
201Δ	730130		Muffler Adapter Kit (Incl.110,112)(As req.)
	34414		Decal, Warning
	34418		Decal, Choke
	34417		Decal, Primer
	34416		Decal, Instruction
	30547A		Breaker Assy (Used on Std. Point igni tion)
	30548B		Condenser
	631021		Inlet, Needle Seat & Clip Assy.
	611077		Alternator (Optional)
	650868		Screw, 8-18 x 1-1/8" (3 required)(Opt .)
	611078		Connector, A.C. Lighting (Optional)
	611079		Connector, D.C. Charging (Optional)
	590610		Tube, Centering (Optional)
	590613		Alternator Shaft (Optional)
250	631927		Carburetor (Incl. 85) (Refer to Division 5, Section A, Page
			140 for breakdown)
251	610964A		Magneto (w/ring gear for 120 volt sta rter) NOTE: The
231	010904A		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)
252	590473		Rewind Starter (Refer to Division 5, Section C, page 29 for
			breakdown)
254	33328D		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 hasdrilled and tapped starter mounting
			bosses and a ring gear flywheel (see#255). Refer to service
			number stamped on end cap of motor or on decal for
			identificat
255	30811A		Flywheel (Ring gear flywheel requiredon engines using
200	30011A		110-120 volt starter motor kits listed above) (Used on Std.
			point ignition before 1982)
255	611042		Flywheel (Ring gear flywheel requiredon engines using
			110-120 volt starter motor kits listed above) (Used on Std.
			point ignition 1982 or later)
255	611085		Flywheel (Minimum ring gear flywheel required on engines
200			using 110-120 volt starter motor kits listed above) (Used on
			solid state external ignition)
	200054		,
256	33235A		Gasket Set (Incl. items marked*)