

	Part Number 34919A	Qty	Description Cylinder (Incl. 2,3 & 4) (2-5/8" Bore)
2	27652		Pin, Dowel
3	27642		Pipe plug, 1/4-18
	32630		Seal, Oil
	29536		Blower Housing Baffle (Without electric starter knock out)
J	2000		(Use as required)
5	35256A		Blower Housing Baffle (With electric starter knockout) (As
			req.)(point ign.)
	650561		Screw, 1/4-20 x 5/8"
	29538		Base, Engine mounting
	650542		Screw, 5/16-18 x 3/4"
	35113		Crankshaft
	29783		Pin, Crankshaft gear (Used on early p rod.)
11	27884		Gear, Crankshaft (Used on early production) This gear is serviceable ONLY when it is pinned to the crankshaft.
	33312B		Piston & Pin Ass'y. (Std.)(2-5/8")(In cl.14)
	33313B		Piston & Pin Ass'y. (.010" OS) (Incl. 14)
13A	33314B		Piston & Pin Ass'y. (.020" OS) (Incl. 14)
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)
14	27888		Ring, Piston pin retaining
	34854		Ring Set (Std.) (2-5/8" Bore)
	34855		Ring Set (.010" OS)
	34856		Ring Set (.020" OS)
	31295C		Rod Assy., Connecting (Incl. 17)
	650662C		Bolt, Connecting rod (Incl. 2 pieces)
	34034		Lifter, Valve
	33156		Camshaft
	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)
	30684		Gasket Cylinder Cover
	31303B		Cover, Cylinder (Incl. 26 & 34)
	31546		Bushing, Crankshaft
	28427		Seal, Oil
	650488		Screw, 1/4-20 x 1-1/4"
28	650493		Screw, 1/4-20 x 1-3/4"
	30699C		Rod Assy., Governor (Incl. 30 & 31)
30	30700		Yoke, Governor
31	650494		Screw, 6-40 x 5/16"
33	29642		Ring, Retaining
34	31845		Shaft, Mechanical governor
	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.)
	32784		Intake Valve (1/32" OS)
	27878A		Exhaust Valve (Std.)
	27880A		Exhaust Valve (1/32" OS)
	27882		Cap, Upper valve spring
44	27881		Spring, valve

	Part Number Qty	•
45	32581	Cap, Lower valve spring
46	33876	Gasket, Stator
	650489	Screw, 1/4-20 x 5/8"
	35182	Ground Wire
	32589	Key, Flywheel
	28938C	
		Gasket, Cylinder head
	30938A	Head, Cylinder
	34251	Resistor Spark Plug (RJ-17LM)
	610118	Cover, Spark plug (Use as required)
	30939A	Cover Assy., Cylinder head
	650691	Washer, Flat (Use as required)
56B	650690	Washer, Belleville (Use as required)
56	650697A	Screw, 5/16-18 x 2-1/2" (Use as requi red)
56	650694A	Screw, 5/16-18 x 2" (Use as required)
56	650695A	Screw, 5/16-18 x 2-1/4" (Use as requi red)
57	29916	Clamp, Governor lever (Use as require d)
	30322	Locknut, 8-32
	33454	Lever Assy., Governor
	29918	Washer, Lock, No. 8 E.T.
	650548	Screw, 8-32 x 5/16"
	29216	Locknut, 10-32
	29826	Screw, 10-32 x 3/4"
	34662	Link, Throttle
	34661	Link, Governor
	34664	Control Bracket (Incl. 68, 69, 72 & 1 38)
	31342	Spring, Compression
	650549	Screw, 5-40 x 7/16"
	27793	Clip, Conduit
71	28942	Screw, 10-32 x 3/8"
72	610973	Terminal Assy. (Use as required)
74	27896A	Gasket, Valve chamber cover
75	28423	Breather Assy., Valve
76	28424	Element, Breather
	28425	Cover, Valve spring box
	650128	Screw, 10-24 x 1/2"
	35350	Tube Breather
	27915A	* Gasket, Intake pipe to cylinder
	34712	Flange, Carburetor (Incl. 86A)
		Screw, 5/16-18 x 3/4"
	30196	·
	31688A	* Gasket, Carburetor
	650517	Screw, 1/4-20 x 13/16"
	27272A	* Air Cleaner Gasket (Use as required)
	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
	650665	Screw, 1/4-14 x 7/8"
	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)
	33032	Fuel Cap (Red Plastic) (Spurt resistant, Low profile) (Use as
103	00002	
		required)

Fuel Cap (Red Plassic) (Spurt resistant, High profile) (Use as required) 105 39325 106 29774 Fuel Line (Braided, 8 14/1) (Use as required) 107 29406 108 297374 Fuel Line (Braided, 8 14/1) (Use as required) 109 297378 Screw, 6716-24 x 21 x 22 Camp, Fuel line (Use as required) 109 297378 Screw, 6716-24 x 21 x 22 Camp, Fuel line (Use as required) 100 297374 101 29730A 102 29730A 103 297374 1110 29730A 1111 34300 Pellscute, Exhaust flarge 1111 34300 Pellscute, Exhaust flarge 1111 34301 1112 30196 Cyt.Spark Arrest Mul(Incl. 142,143,14 4,144A) Pellscute, Exhaust (Optional) 112 30196 Screw, 671e-18 x 24* Washer, Flat Screw, 671e-18 x 24* Washer, Flat Screw, 671e-18 x 24* Washer, Flat 118 3800 119 29716 Screw, 671e-18 x 24* Washer, Flat 119 29716 Screw, 10-28 x 7/16* Bracket, Air cleaner 120 30727 Elementary Alexandra (Seaner) 121 38300 Screw, 10-14 x 14/2* 123 31715 Screw, 10-14 x 14/2* 140 33171 Screw, 10-14 x 14/2* 140 33171 Screw, 10-14 x 14/2* Screw, 10-14 x 14/4* Screw,	Ref # Part Number	Qty Description
Fuel Line (Braided, 8 1/4") (Use as required)	105 34210	. , , , , , , , , , , , , , , , , , , ,
106 30962		
107 26460 Clamp, Fuel line (Use as required)		
Blower Housing (For electric starler)	106 30962	Fuel Line (Braided, 32") (Use as requ ired)
109 29747B Screw, 5/16-24 x 21/52"		Clamp, Fuel line (Use as required)
110 27930A 111D 33714 111E 34390 111C 391026 Opt.Spark Arrest Muf.(Incl.112,143,14.4,144A) Deflector, Exhaust (Optional) Opt.Spark Arrest Muf.(Incl.143,143A,1.43B) Mufler 113 26073 Mufler 113 26073 Vasher, Flat Screw, 5/16-18 x 3/4* Vasher, Belleville Nut, Hex Screw, 14-28 x 7/16* Screw, 14-28 x 1/2* Screw, 14-28 x 7/16* Screw, 14-28 x 7/16* Screw, 14-28 x 1/2* Screw, 14-28 x 1/2* Screw, 14-15 x 7/8* Screw, 14-15 x		Blower Housing (For electric starter)
1110 33714 Opt.Spark Arrest Muf. (Inc.112,143,14 4,144A) 111E 3490 Deflector, Exhaust (Optional) 1110 391026 Opt.Spark Arrest Muf. (Inc.1143,143A, 1 43B) 1111 32011 Muffler 112 301796 Screw, 5/16-18 x 3/4* 113 26073 Washer, Flat 114 650694A Screw, 5/16-18 x 2* 115 32125 Cup, Starter 116 35009 Screen, Starter cup 117 650815 Washer, Belleville 118 8116 119 29716 Screw, 14-22 x 7/16* 120 31691 Screw, 14-22 x 7/16* 121 31691 Screw, 14-22 x 7/16* 122 30727 Element, Air cleaner 121 28820 Screw, 10-32 x 1/2* 122 30727 Element, Air cleaner 121 28820 Screw, 10-32 x 1/2* 122 30727 Element, Mir cleaner 123 31715 Body, Air cleaner 124 650152 Screw, 8-32 x 3/8* 138 34663 Sping, Speed control 139 650621 Screw, 10-32 x 1/2* 1438 33171 Screw, 10-32 x 1/2* 1438 33171 Screw, Muffler (Use as required) 144 33323 Screen, Muffler (Use as required) 145 340114 Dipstick (Incl. 146) 146 35590 OF Rube, Muffler (Use as required) 147 33893A OF Rube, Muffler (Use as required) 148 340114 Dipstick (Incl. 147, 19, 80, 87, 88, 99, 99, 19, 29, 49, 59, 69, 79, 91, 100 & 230 C) 149 4174 Deflector, Exhaust 140 230 34416 Decal, Instruction 141 Air Cleaner Kit, Mini bike (Incl.87, 120, 121, 122, 123, 124 & 230(As req.) 148 230(As req.) 149 3346 Decal, Instruction 140 230 34416 Decal, Instruction 141 Decal, Instruction 142 360688 Screw, 8-18 x 1-1/8* (Jose quired)(Cordenser 144 650688 Screw, 8-18 x 1-1/8* (Jose quired)(Cordenser) 144 650688 Screw, 8-18 x 1-1/8* (Jose quired)(Cordenser) 144 650688 Screw, 8-18 x 1-1/8* (Jose quired)(Cordenser) 145 650688 Screw, 8-18 x 1-1/8* (Jose quired)(Cordenser) 146 650688 Screw, 8-18 x 1-1/8* (Jose quired)(Cordenser) 147 650688 Sc		
111E 34390 Deflector, Exhaust (Optional)		
111C 391026 Opt.Spark Arrest Mut.(Incl.143,143A,1 43B) 111 32401 112 30196 Screw, 5/16-18 x 3/4" 113 26073 Washer, Flat 114 660694A Screw, 5/16-18 x 2" 115 32125 Cup, Starter 116 35009 Screen, Starter cup 117 650815 Washer, Belleville 118 8116 Nut. Hex 119 29716 Screw, 1/4-28 x 7/16" 120 31691 Bracket, Air cleaner 121 28820 Screw, 10-32 x 1/2" 122 30727 Element, Air cleaner 124 660152 Screw, 1/3-28 x 3/8" 126 660152 Screw, 1/3-28 x 3/8" 138 34663 Spring, Speed control 139 650821 Screw, 10-32 x 1/2" 143A 33171 Screen, Muffler (Use as required) 143 650578 Screw, 8-32 x 1/2" 144A 33323 Screen, Muffler (Use as required) 145 34011A Dipstick (Incl. 146) 146 33590 Oil Fill Tube 167 34174 Deflector, Exhaust 168 650665 Screw, 1/4-15 x 7/8" 201A 730130 Muffler Adapter Kir (Incl.110,112) (As req.) Air Cleaner Kit (Incl.747,98.08,78,88.99.0,91.92.94.95,96.97.99.100 & 230C) (Used only on engine with an externally vented fully adjustable carburetor) 201 730164 Air Cleaner Kit, Mini bike (Incl.87,120,121,122,123,124 & 230,3446 Decal, Instruction 230 34346 Decal, Instruction 231 30547A Breaker Assy, (Used on Std. Point igni tion) 232 3436 Condenser 242 611078 Connetor, A.C. Lighting (Optional)		
111 32401 Muffler 112 30166 Screw, 5/16-18 x 3/4" 113 26073 Washer, Flat Screw, 5/16-18 x 2" Washer, Flat Screw, 5/16-18 x 2" Screw, 1/4-28 x 7/16" Screw, 1/4-28 x 7/16" Screw, 1/4-28 x 7/16" Screw, 1/4-28 x 1/2" Scre		
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116 35009 Screen, Starter cup 117 650815 Washer, Belleville Nut, Hex 118 8116 Nut, Hex 120 31691 Bracket, Air Cleaner Screw, 1/4-28 x 7/16" 120 31691 Bracket, Air Cleaner 121 28820 Screw, 10-32 x 1/2" 122 30727 Element, Air Cleaner 31715 Body, Air Cleaner 324 650152 Screw, 8-32 x 3/8" 34663 Spring, Speed control 319 650821 Screw, 10-32 x 1/2" 143A 33171 Screw, 10-32 x 1/2" 143B 33185 Cover & tube, Muffler (Use as required) Cover & tube, Muffler (Use as required) Cover & tube, Muffler (Use as required) 144 33700 Screw, 8-18 x 3/8" (Use as required) Cover & Tube, Muffler (Use as required) 145 34011A Dipstick (Incl. 146) Tover & Tube, Muffler (Use as required) Cover & Tube, Muffle		·
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120 31691 Bracket, Air cleaner Screw, 10-32 x 1/2" 122 30727 Element, Air cleaner Screw, 10-32 x 1/2" 123 31715 Body, Air cleaner Screw, 8-32 x 3/8" Spring, Speed control Screw, 8-32 x 3/8" Spring, Speed control Screw, 8-32 x 3/8" Spring, Speed control Screw, 10-32 x 1/2" Screw, 8-18 x 3/8" (Use as required) Screw, 14-15 x 7/8" Screw, 14		·
121 28820 Screw, 10-32 x 1/2" Element, Air cleaner 122 30727 Element, Air cleaner 123 31715 Body, Air cleaner 124 650152 Screw, 8-32 x 3/8" 138 34663 Spring, Speed control 139 650821 Screw, 10-32 x 1/2" 143A 33171 Screen, Muffler (Use as required) 143B 33185 Cover & tube, Muffler (Use as required) 143 650578 Screw, 8-18 x 3/8" (Use as required) 144 33700 Cover & Tube, Muffler (Use as required) 145 34011A Dipstick (Incl. 146) 146 33590 Oi Fill Tube 147 33893A Oi Fill Tube 148 650665 Screw, 1/4-15 x 7/8" 149 30561 Muffler Adapter Kit (Incl.110,112)(As req.) 140 30561 Air Cleaner Kit (Incl.174,79.80,87.88,89.90,91,92,94,95.96,97.99,100 & 230C) (Used only on engine with an externally vented fully adjustable carburetor) 201 730164 Air Cleaner Ass'y. (Red Poly)(Incl.87,120,121,122,123,124 & 230)(As req.) 203 34346 Decal, Instruction 204 30 34416 Decal, Instruction 205 30 34416 Decal, Instruction 207 30 3488 Condenser 208 40 611077 Alternator (Optional) 208 4108 Screw, 8-18 x 1-1/8" (3 required)(Opt.) 209 611077 Alternator (Optional) 200 50 10 10 10 10 10 10 10 10 10 10 10 10 10		
122 30727 Element, Air cleaner Body, Air cleaner Screw, 8-32 x 3/8" Screw, 8-32 x 3/8" Screw, 8-32 x 3/8" Screw, 8-32 x 3/8" Screw, 10-32 x 1/2" Screw, 10-32		· · · · · · · · · · · · · · · · · · ·
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145 34011A 146 33590 170" Ring 147 33893A Oil Fill Tube Deflector, Exhaust Screw, 1/4-15 x 7/8" 201A 730130 Muffler Adapter Kit (Incl.110,112)(As req.) Air Cleaner Kit (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 730164 Air Cleaner Ass'y. (Red Poly)(Incl.87,120,121,122,123,124 & 230)(As req.) 201 730164 Air Cleaner Kit, Mini bike (Incl.87,120,121,122,123 & 124) (Use as required) 230 34346 Decal, Instruction Decal, Instructi	144A 33323	
146 33590 147 33893A Oil Fill Tube Deflector, Exhaust 168 650665 Screw, 1/4-15 x 7/8" Muffler Adapter Kit (Incl.110,112)(As req.) Air Cleaner Kit (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 730164 Air Cleaner Kit, Mini bike (Incl.87,120,121,122,123,124 & 230)(As req.) 201 730164 Air Cleaner Kit, Mini bike (Incl.87,120,121,122,123,124 & 230)(As req.) 203 34346 Decal, Instruction Decal, I	144 33700	Cover & Tube, Muffler (Use as require d)
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Screw, 1/4-15 x 7/8"		
Muffler Adapter Kit (Incl.110,112)(As req.) Air Cleaner Kit (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)		
Air Cleaner Kit (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 730164 Air Cleaner Ass'y. (Red Poly)(Incl.87,120,121,122,123,124 & 230)(As req.) Air Cleaner Kit, Mini bike (Incl.87,120,121,122,123 & 124) (Use as required) 230 34346 Decal, Instruction 231 30547A Decal, Instruction 2314 30548B 232A 631021 Alternator (Optional) 241 650868 Screw, 8-18 x 1-1/8" (3 required)(Opt.) Connector, A.C. Lighting (Optional)		•
(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 730164 Air Cleaner Ass'y. (Red Poly)(Incl.87,120,121,122,123,124 & 230)(As req.) 201 730164 Air Cleaner Kit, Mini bike (Incl.87,120,121,122,123 & 124) (Use as required) 230 34346 Decal, Instruction 231 30547A Decal, Instruction Breaker Assy (Used on Std. Point igni tion) 231A 30548B 232A 631021 Inlet, Needle Seat & Clip Assy. Alternator (Optional) 241 650868 Screw, 8-18 x 1-1/8" (3 required)(Opt.) Connector, A.C. Lighting (Optional)		
(Used only on engine with an externally vented fully adjustable carburetor) 201 730164 Air Cleaner Ass'y. (Red Poly)(Incl.87,120,121,122,123,124 & 230)(As req.) 201 730164 Air Cleaner Kit, Mini bike (Incl.87,120,121,122,123 & 124) (Use as required) 230 34346 Decal, Instruction 231 30547A Breaker Assy (Used on Std. Point igni tion) 231A 30548B Condenser 232A 631021 Inlet, Needle Seat & Clip Assy. Alternator (Optional) 241 650868 Screw, 8-18 x 1-1/8" (3 required)(Opt.) Connector, A.C. Lighting (Optional)	201B 730561	
adjustable carburetor) Air Cleaner Ass'y. (Red Poly)(Incl.87,120,121,122,123,124 & 230)(As req.) 201 730164 Air Cleaner Kit, Mini bike (Incl.87,120,121,122,123 & 124) (Use as required) 230 34346 230 34416 231 30547A 231 30547A 232A 631021 232A 631021 240 611077 241 650868 25crew, 8-18 x 1-1/8" (3 required)(Opt.) 260 230 230 240 (Optional) 270 270 280 280 280 280 280 280 280 280 280 28		
201 730164 Air Cleaner Ass'y. (Red Poly)(Incl.87,120,121,122,123,124 & 230)(As req.) 201 730164 Air Cleaner Kit, Mini bike (Incl.87,120,121,122,123 & 124) (Use as required) 230 34346 Decal, Instruction 231 30547A Decal, Instruction Breaker Assy (Used on Std. Point igni tion) Condenser 232A 631021 Inlet, Needle Seat & Clip Assy. Alternator (Optional) 241 650868 Screw, 8-18 x 1-1/8" (3 required)(Opt.) Connector, A.C. Lighting (Optional)		
230)(As req.) 201 730164 Air Cleaner Kit, Mini bike (Incl.87,120,121,122,123 & 124) (Use as required) 230 34346 231 30547A 231 30547A 232A 631021 234 650868 242 611078 Decal, Instruction Decal, In		adjustable carburetor)
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231 30547A Breaker Assy (Used on Std. Point igni tion) 231A 30548B Condenser 232A 631021 Inlet, Needle Seat & Clip Assy. 240 611077 Alternator (Optional) 241 650868 Screw, 8-18 x 1-1/8" (3 required)(Opt .) 242 611078 Connector, A.C. Lighting (Optional)		
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232A 631021 Inlet, Needle Seat & Clip Assy. 240 611077 Alternator (Optional) 241 650868 Screw, 8-18 x 1-1/8" (3 required)(Opt .) 242 611078 Connector, A.C. Lighting (Optional)		
240 611077 Alternator (Optional) 241 650868 Screw, 8-18 x 1-1/8" (3 required)(Opt .) 242 611078 Connector, A.C. Lighting (Optional)		
241 650868 Screw, 8-18 x 1-1/8" (3 required)(Opt .) 242 611078 Connector, A.C. Lighting (Optional)		
242 611078 Connector, A.C. Lighting (Optional)		
	242 611079	

Ref #	Part Number	Qty	Description
	590610	•	Tube, Centering (Optional)
	590613		Alternator Shaft (Optional)
250	632230		Carburetor (Incl. 85) (Refer to Division 5, Section A, Page 182 for breakdown)
251	611038		Magneto 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 39 for breakdown)
252	590420A		Rewind Starter (Refer to Division 5, Section C, page 25 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 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 using 110-120 volt starter motor kits listed above) (Used on solid state external ignition)
256	33235A		Gasket Set (Incl. items marked*)