

Ref # Part Number			
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3 27642 Pipe plug, 1/4-18 4 32630 Seal, Oil 5 29536 Blower Housing Baffle (Without electric starter knock out) (Use as required) 5 35256A Blower Housing Baffle (Without electric starter knock out) (Use as required) 6 650561 Screw, 1/4-20 x 5/8* Base, Engine mounting 8 650542 Screw, 5/16-18 x 3/4* 9 35193 Crankshaft 10 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. 13 34531 Piston, Pin & Ring Set (.020* OS) 13 34533 Piston, Pin & Ring Set (.020* OS) 13 34533 Piston, Pin & Ring Set (.020* OS) 13 34533 Piston, Pin & Ring Set (.020* OS) 13 34533 Piston Pin Raysy. (Stol.) (2-5/8*) (Incl. 14) 13 3454 Piston & Pin Assy. (.010* OS) (Incl. 14) 13 3455 Piston Pin Assy. (.010* OS) (Incl. 14) 14 27888 Ring Set (.010* OS) 15 34856 Ring Set (.010* OS) 16 31380C Rod Assy. Connecting (Incl. 17) 17 650662C Bolt, Connecting rod (Incl. 2 pieces) 18 34034 Lifter, Valve 20 30627A Extension, Blower housing 21 650128 Screw, 1/4-20 x 5/8* (Use as required) 22 30063 Screw, 1/4-20 x 5/8* (Use as required) 23 30644 Gasket Cylinder Cover 24 31720A Covert, Cylinder (Incl. 26, 32 & 34) 36 50494 Screw, 1/4-20 x 1-1/4* 26 5058A Screw, 1/4-20 x 1-1/4* 27 893 Ring, Retaining 38 30591 Gear Assy., Governor (Incl. 30 & 31) 38 30591 Gear Assy., Governor gear 4 1 32783 Hals4ba Bracket, Governor gear	1	34919A	Cylinder (Incl. 2,3 & 4) (2-5/8" Bore)
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5 29536 Blower Housing Baffle (Without electric starter knock out) (Use as required)	3	27642	Pipe plug, 1/4-18
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gear is serviceable ONLY when it is pinned to the crankshaft. 13 34531	10	29783	Pin, Crankshaft gear (Used on early p rod.)
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26 28427 Seal, Oil 27 650488 Screw, 1/4-20 x 1-1/4" 28 650493 Screw, 1/4-20 x 1-3/4" 29 30699C Rod Assy., Governor (Incl. 30 & 31) 30 30700 Yoke, Governor 31 650494 Screw, 6-40 x 5/16" 32 28926 Seal, Oil 33 29642 Ring, Retaining 34 31845 Shaft, Mechanical governor 35 30588A Spool, Governor 36 35479 Washer, Flat 37 29193 Ring, Retaining 38 30591 Gear Assy., Governor 39 31843A Bracket, Governor gear 40 650836 Screw, 10-24 x 1/2" 41 32783 Intake Valve (Std.)	24	31720A	Cover, Cylinder (Incl. 26, 32 & 34)
27 650488 Screw, 1/4-20 x 1-1/4" 28 650493 Screw, 1/4-20 x 1-3/4" 29 30699C Rod Assy., Governor (Incl. 30 & 31) 30 30700 Yoke, Governor 31 650494 Screw, 6-40 x 5/16" 32 28926 Seal, Oil 33 29642 Ring, Retaining 34 31845 Shaft, Mechanical governor 35 30588A Spool, Governor 36 35479 Washer, Flat 37 29193 Ring, Retaining 38 30591 Gear Assy., Governor 39 31843A Bracket, Governor gear 40 650836 Screw, 10-24 x 1/2" 41 32783 Intake Valve (Std.)	25	31546	Bushing, Crankshaft
28 650493 Screw, 1/4-20 x 1-3/4" 29 30699C Rod Assy., Governor (Incl. 30 & 31) 30 30700 Yoke, Governor 31 650494 Screw, 6-40 x 5/16" 32 28926 Seal, Oil 33 29642 Ring, Retaining 34 31845 Shaft, Mechanical governor 35 30588A Spool, Governor 36 35479 Washer, Flat 37 29193 Ring, Retaining 38 30591 Gear Assy., Governor 39 31843A Bracket, Governor gear 40 650836 Screw, 10-24 x 1/2" 41 32783 Intake Valve (Std.)	26	28427	Seal, Oil
29 30699C Rod Assy., Governor (Incl. 30 & 31) 30 30700 Yoke, Governor 31 650494 Screw, 6-40 x 5/16" 32 28926 Seal, Oil 33 29642 Ring, Retaining 34 31845 Shaft, Mechanical governor 35 30588A Spool, Governor 36 35479 Washer, Flat 37 29193 Ring, Retaining 38 30591 Gear Assy., Governor 39 31843A Bracket, Governor gear 40 650836 Screw, 10-24 x 1/2" 41 32783 Intake Valve (Std.)	27	650488	Screw, 1/4-20 x 1-1/4"
30 30700 Yoke, Governor 31 650494 Screw, 6-40 x 5/16" 32 28926 Seal, Oil 33 29642 Ring, Retaining 34 31845 Shaft, Mechanical governor 35 30588A Spool, Governor 36 35479 Washer, Flat 37 29193 Ring, Retaining 38 30591 Gear Assy., Governor 39 31843A Bracket, Governor gear 40 650836 Screw, 10-24 x 1/2" 41 32783 Intake Valve (Std.)	28	650493	Screw, 1/4-20 x 1-3/4"
31 650494 Screw, 6-40 x 5/16" 32 28926 Seal, Oil 33 29642 Ring, Retaining 34 31845 Shaft, Mechanical governor 35 30588A Spool, Governor 36 35479 Washer, Flat 37 29193 Ring, Retaining 38 30591 Gear Assy., Governor 39 31843A Bracket, Governor gear 40 650836 Screw, 10-24 x 1/2" 41 32783 Intake Valve (Std.)	29	30699C	Rod Assy., Governor (Incl. 30 & 31)
32 28926 Seal, Oil 33 29642 Ring, Retaining 34 31845 Shaft, Mechanical governor 35 30588A Spool, Governor 36 35479 Washer, Flat 37 29193 Ring, Retaining 38 30591 Gear Assy., Governor 39 31843A Bracket, Governor gear 40 650836 Screw, 10-24 x 1/2" 41 32783 Intake Valve (Std.)	30	30700	Yoke, Governor
33 29642 Ring, Retaining 34 31845 Shaft, Mechanical governor 35 30588A Spool, Governor 36 35479 Washer, Flat 37 29193 Ring, Retaining 38 30591 Gear Assy., Governor 39 31843A Bracket, Governor gear 40 650836 Screw, 10-24 x 1/2" 41 32783 Intake Valve (Std.)	31	650494	Screw, 6-40 x 5/16"
34 31845 Shaft, Mechanical governor 35 30588A Spool, Governor 36 35479 Washer, Flat 37 29193 Ring, Retaining 38 30591 Gear Assy., Governor 39 31843A Bracket, Governor gear 40 650836 Screw, 10-24 x 1/2" 41 32783 Intake Valve (Std.)	32	28926	Seal, Oil
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41 32783 Intake Valve (Std.)			-
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41 32784 Intake Valve (1/32" OS)			· ·
	41	32784	Intake Valve (1/32" OS)

Ref#	Part Number	Qty	Description
42	27878A		Exhaust Valve (Std.)
42	27880A		Exhaust Valve (1/32" OS)
43	27882		Cap, Upper valve spring
44	27881		Spring, valve
45	32581		Cap, Lower valve spring
47	650814		Screw, 10-24 x 1"
48	35187		Wire, Ground
49	32589		Key, Flywheel
51	28938C		Gasket, Cylinder head
52	30938A		Head, Cylinder
	33636		Resistor Spark Plug (RJ-8C)
	610118		Cover, Spark plug (Use as required)
	30939A		Cover Assy., Cylinder head
	650697A		Screw, 5/16-18 x 2-1/2" (Use as requi red)
	650694A		Screw, 5/16-18 x 2" (Use as required)
	650695A		Screw, 5/16-18 x 2-1/4" (Use as required)
	650691		Washer, Flat (Use as required)
	650690		Washer, Belleville (Use as required)
	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
	28942		Screw, 10-32 x 3/8"
	610973		Terminal Assy. (Use as required)
	27896A		Gasket, Valve chamber cover
	28423		Breather Assy., Valve
	28424		Element, Breather
	28425		Cover, Valve spring box
	650128		Screw, 10-24 x 1/2"
	35350		Tube, Breather
	32446		Grommet, Breather tube
	27915A		* Gasket, Intake pipe to cylinder
	34712		Flange, Carburetor (Incl. 86A)
	30196		Screw, 5/16-18 x 3/4"
	31688A		* Gasket, Carburetor
	650517		Screw, 1/4-20 x 13/16"
	27272A		* Air Cleaner Gasket (Use as required)
	30767		Spacer, Cleaner (Use as required)
	34819		Elbow Assy., Air cleaner (Incl. 90,91,92,93,94,96)
34A	UTU 1 0		(Use in 730561 assembly only)
101	34167		Bracket, Fuel tank
	650665		Screw, 1/4-14 x 7/8"
103	34168		Bracket, Fuel tank mounting
			-

	Part Number	Qty	Description
104	34156A		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 required)
405	24240		
105	34210		Fuel Cap (Red Plastic) (Spurt resistant, High profile)
			(Use as required)
105	35355		Fuel Cap (Red plastic) (Use as requir ed)
106	29774		Fuel Line (Braided, 8 1/4") (Use as r equired)
106	30962		Fuel Line (Braided, 32") (Use as required)
107	26460		Clamp, Fuel line (Use as required)
108	32158E		Blower Housing (For electric starter)
109	29747B		Screw, 5/16-24 x 21/32"
110	27930A		* Gasket, Exhaust flange
111E	34390		Deflector, Exhaust (Optional)
111C	391026		Opt.Spark Arrest Muf.(Incl.143,143A,1 43B)
111D	33714		Opt.Spark Arrest Muf.(Incl.112,143,14 4,144A)
111	32401		Muffler
112	30196		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		Nut, Hex
119	29716		Screw, 1/4-28 x 7/16"
	31708		Bracket, Air cleaner
	28820		Screw, 10-32 x 1/2"
	31700		Element, Air cleaner
	31715		Body, Air cleaner
	650152		Screw, 8-32 x 3/8"
	29443		Clip, Ground wire
	34663		Spring, Speed control
	650821		Screw, 10-32 x 1/2"
	650578		Screw, 8-18 x 3/8" (Use as required)
	33171		Screen, Muffler (Use as required)
	33185		Cover & tube, Muffler (Use as require d)
	33323		Screen, Muffler (Use as required)
	33700		Cover & Tube, Muffler (Use as require d)
	31297		Dipstick (Incl. 146A)
	29673		* Gasket, Oil fill
2016	730561		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.)
204	730164		Air Cleaner Kit, Mini bike (Incl.87,120,121,122,123 &
201	7 30 104		124) (Use as required)
			127) (030 as required)

Ref #	Part Number	Qty	Description
201A	730130	•	Muffler Adapter Kit (Incl.110,112)(As req.)
209	611084		Flywheel
210	650872		Stud, Solid State mounting
211	34443A		Solid State Assy. (Incl. 54)
230	34346		Decal, Instruction
230	550223		Decal, Name
231	30547A		Breaker Assy (Used on Std. Point igni tion)
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)
242	611079		Connector, D.C. Charging (Optional)
243	590610		Tube, Centering (Optional)
244	590613		Alternator Shaft (Optional)
250	632230		Carburetor (Incl. 85) (Refer to Division 5, Section A,
			Page 182 for breakdown)
252	590420A		Rewind Starter (Refer to Division 5, Section C, page
202	330420A		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
233	011042		using 110-120 volt starter motor kits listed above)
			(Used on Std. point ignition 1982 or later)
			(Osed on Std. point ignition 1902 of 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*)
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