

Ref # Part Number			
2 27662 3 27642 4 32630 Seal, Oil 5 29536 Blower Housing Baffle (Without electric starter knock out) (Use as required) 5 36256A Blower Housing Baffle (Without electric starter knockout) (As req.) (point tign.) 6 650561 7 29538 8 288, Engine mounting 8 650542 9 34671 Crankshaft 10 29783 Pin, Crankshaft (Used on early p rod.) 6 29783 Pin, Crankshaft (Used on early p rod.) 7 29538 Piston, Pin & Ring Set (Std.) (2-5/8" Bore) 8 29542 Piston, Pin & Ring Set (Std.) (2-5/8" Bore) 13 34531 Piston, Pin & Ring Set (Std.) (2-5/8" Bore) 13 34533 Piston, Pin & Ring Set (O20" OS) 13 34533 Piston, Pin & Ring Set (O20" OS) 14 33313B Piston & Pin Assy. (Std.) (2-5/8")(In cl.14) 15 33313B Piston & Pin Assy. (Std.) (2-5/8")(In cl.14) 16 27888 Ring, Pin & Ring Set (Std.) (2-5/8" Bore) 15 34854 Ring, Piston, Pin & Ring Set (O20" OS) (Incl. 14) 17 84855 Ring Set (Std.) (2-5/8" Bore) 18 34034 Ring, Piston Pin Raining 18 46012B Ring Set (Std.) (2-5/8" Bore) 18 34034 District Pin Assy. (O20" OS) Rod Assy., Connecting (Incl. 17) Rod Assy., Connecting (Incl. 2) pieces) Lifter, Valve 2 50063 Screw, 14-20 x 172" (Use as required) 2 30062 2 660760 Screw, 14-20 x 172" 2 66048 Screw, 14-20 x 1-14" 2 66048 Screw, 14-20 x 1-14" 2 66048 Screw, 14-20 x 1-14" 3 30884 Screw, 14-20 x 1-14" 3 30884 Screw, 14-20 x 1-14" 3 30899C Rod Assy., Governor (Incl. 30 & 31) Yoke, Governor 3 30884 Screw, 14-20 x 1-14" 3 30999C Rod Assy., Governor 3 30884 Screw, 14-20 x 1-14" 3 30999C Rod Assy., Governor 3 30894 Screw, 14-20 x 1-14" 3 30999C Rod Assy., Governor 3 30894 Screw, 14-20 x 1-14" 3 30999C Rod Assy., Governor 3 30894 Screw, 14-20 x 1-14" 3 30999C Rod Assy., Governor 3 30894 Screw, 14-20 x 1-14" 3 5000ernor 3 30896 Screw, 14-20 x 1-14" 3 5000ernor 3 30897 Screw, 14-20 x 1-14" 3 5000ernor 3 30897 Screw, 14-20 x 1-14" 3 5000ernor 3 30896 Screw, 14-20 x 1-14	Ref #	Part Number Qty	Description
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 36256A 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 34871 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 (1,010* OS) (Incl. 14) 13 34532 Piston, Pin & Ring Set (1,020* OS) 13 34533 Piston, Pin & Ring Set (1,020* OS) 13 34533 Piston, Pin & Ring Set (1,020* OS) 13 34533 Piston & Pin Assy. (1010* OS) (Incl. 14) 13 3454 Piston & Pin Assy. (1010* OS) (Incl. 14) 13 3455 Ring Set (1,010* OS) 15 34856 Ring Set (1,010* OS) 16 31380C Rod Assy. Connecting (Incl. 17) 17 650662C Bolt, Connecting rod (Incl. 2 pieces) 18 34034 Lifter, Valve 22 650561 Screw, 10-24 x 1/2* 23 0063 Screw, 14-20 x 1/2* (Use as required) 24 31303B Cover, 1/4-20 x 1/2* (Use as required) 25 3064 Ring Set (1,020* Os) 26 50760 Screw, 14-20 x 1/2* (Use as required) 27 65048 Screw, 10-24 x 1/2* 28 6099C Rod Assy. Connecting (Incl. 20 pieces) 18 18 60493 Screw, 1/4-20 x 1/2* (Use as required) 29 30690C Rod Nut, "U" type 20 30690C Rod Say, Connecting (Incl. 20 pieces) 26 50760 Screw, 1/4-20 x 1/2* (Use as required) 27 65048 Screw, 1/4-20 x 1/2* (Use as required) 28 6064 Screw, 1/4-20 x 1/2* (Use as required) 29 30690C Rod Nut, "U" type 30 30700 Yoke, Governor 31 650494 Screw, 1/4-20 x 1-1/4* 31 65048 Screw, 1/4-20 x 1-1/4* 32 93699C Rod Assy. Governor (Incl. 30 & 31) 33 00700 Yoke, Governor 31 65044 Screw, 1/4-20 x 1-1/4* 32 93699C Rod Say, Governor (Incl. 30 & 31) 33 30591 Gear Assy. Governor (Incl. 30 & 31) 34 3434 Blooked Screw, 1/4-20 x 1-1/4* 35 3058A Spool, Governor 37 29193 Ring, Retaining 38 30591 Gear Assy., Governor (Incl. 30 & 31) 36 3773 Washer, Flat 37 29193 Ring, Retaining 38 30591 Gear Assy., Governor 39 31843A Blooked Rod Rod Rod R	1	34919A	Cylinder (Incl. 2,3 & 4) (2-5/8" Bore)
4 32630 Seal, Oil 5 29536 Blower Housing Baffle (Without electric starter knock out) (Use as required) 5 36256A Blower Housing Baffle (With electric starter knock out) (Use as required) 6 650561 Screw, 1/4-20 x 5/8" 7 29538 Base, Engine mounting 8 650542 Screw, 5/16-18 x 3/4" 9 34871 Crankshaft Prince of the crankshaft (Used on early p rod.) 10 29783 Prin, Crankshaft (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 Priston, Prin & Ring Set (Std.) (2-5/8" Bore) 13 34532 Priston, Prin & Ring Set (0.00" OS) 13 34533 Priston, Prin & Ring Set (0.00" OS) 13 34533 Priston, Prin & Ring Set (0.00" OS) 14 3788 Priston & Prin Ass'y, (0.10" OS) (Incl. 14) 14 2788 Priston & Prin Ass'y, (0.10" OS) (Incl. 14) 14 2788 Ring, Priston & Prin Ass'y, (0.10" OS) (Incl. 14) 15 34854 Ring, Priston prin retaining 15 34855 Ring Set (0.02" OS) 16 31380C Rod Assy, Connecting (Incl. 17) 17 650662C Boft, Connecting rod (Incl. 2 pieces) 18 34034 Lifter, Valve 20 30622A Extension, Blower housing 21 650128 Screw, 10-24 x 1/2" 22 650561 Screw, 14-20 x 12" (Use as required) 22 650760 Screw, 8-32 x 3/8" (Use as required) 23 0684 Gasket Cylinder Cover 24 650764 Nut." U'r type 25 31546 Bushing, Crankshaft 26 28427 Seal, Oil 27 65048 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, 1/4-20 x 1-3/4" 42 650563 Screw, 1/4-20 x 1-3/4" 53 30585 Spate (All Say), Governor (Incl. 30 & 31) 54 30586 Screw, 1/4-20 x 1-3/4" 55 30586 Screw, 1/4-20 x 1-3/4" 57 45 50686 Screw, 1/4-20 x 1-3/4" 57 50686 Screw, 1/4-20 x 1-3/4" 58 650493 Screw, 1/4-20 x 1-3/4" 59 30699C Rod Assy, Governor (Incl. 30 & 31) 50 30686 Screw, 1/4-2	2	27652	Pin, Dowel
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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13 34531			gear is serviceable ONLY when it is pinned to the
13 34532			crankshaft.
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25 31546 26 28427 27 650488 28 650493 29 30699C 30700 31 650494 32 29642 31845 30588A 30588A 30591 30 30591 30 30591 30 30700 31 650836 329842 31843A 31843 32783 Bushing, Crankshaft Seal, Oil Screw, 1/4-20 x 1-1/4" Screw, 1/4-20 x 1-3/4" Rod Assy., Governor (Incl. 30 & 31) Yoke, Governor Screw, 6-40 x 5/16" Ring, Retaining Shaft, Mechanical governor Washer, Flat Ring, Retaining Gear Assy., Governor Bracket, Governor Gear Screw, 10-24 x 1/2" Intake Valve (Std.)			
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" 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.)			· · · · · · · · · · · · · · · · · · ·
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30 30700 31 650494 32 29642 33 29642 34 31845 35 30588A 36 35479 37 29193 38 30591 39 31843A 40 650836 41 32783 Yoke, Governor Screw, 6-40 x 5/16" Screw, 10-24 x 1/2" Intake Valve (Std.)	28	650493	Screw, 1/4-20 x 1-3/4"
31 650494 Screw, 6-40 x 5/16" 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)
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
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"
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.)	33	29642	Ring, Retaining
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.)	34	31845	Shaft, Mechanical governor
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.)	35	30588A	Spool, Governor
38 30591 Gear Assy., Governor 39 31843A Bracket, Governor gear 40 650836 Screw, 10-24 x 1/2" 41 32783 Intake Valve (Std.)	36	35479	Washer, Flat
39 31843A Bracket, Governor gear 40 650836 Screw, 10-24 x 1/2" 41 32783 Intake Valve (Std.)	37	29193	Ring, Retaining
40 650836 Screw, 10-24 x 1/2" 41 32783 Intake Valve (Std.)			Gear Assy., Governor
41 32783 Intake Valve (Std.)	39	31843A	Bracket, Governor gear
\mathbf{V}	40	650836	Screw, 10-24 x 1/2"
41 32784 Intake Valve (1/32" OS)	41	32783	
	41	32784	Intake Valve (1/32" OS)

	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
46	33876		Gasket, Stator
47	650489		Screw, 1/4-20 x 5/8"
49	32589		Key, Flywheel
51	28938C		Gasket, Cylinder head
52	30938A		Head, Cylinder
53	33636		Resistor Spark Plug (RJ-8C)
54	610118		Cover, Spark plug (Use as required)
54	27276		Cover, Spark plug
55	30939A		Cover Assy., Cylinder head
56B	650690		Washer, Belleville (Use as required)
56	650697A		Screw, 5/16-18 x 2-1/2" (Use as required)
56	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)
57A	30322		Locknut, 8-32
	29916		Clamp, Governor lever (Use as require d)
	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"
	34661		Link, Governor
	34662		Link, Throttle
	34677		Control Bracket (Incl. 68, 69, 72 & 1 38)
	31342		Spring, Compression
	650549		Screw, 5-40 x 7/16"
	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)
	34783		Filter, Pre-air
	34782		Filter, Air cleaner (Incl. 97)
	34782		Pop Rivet (1/8" dia.) (Purchase local ly)
	34699		Bracket, Air cleaner
	34698A		Gasket, Air cleaner
	30675		Fitting, Breather
	34780		Elbow, Air cleaner
	34819		Elbow Assy., Air cleaner (Incl. 90,91,92,93,94,96)
JTA	3.3.10		(Use in 730561 assembly only)
			(COO III 1 COOC I GOODIIDIY OIIIY)

Ref #	Part Number	Qty	Description
95	650163		Screw, 10-32 x 7/8"
96	650826		Stud, 1/4-20 x 6.20, threaded both en ds
97	650825		Nut & Lockwasher, 1/4-20
99	34781		Cover, Air cleaner
100	650513		Nut, Wing, 1/4-20
	34158		Bracket, Fuel tank
	650665		Screw, 1/4-14 x 7/8"
	34159		Plate, Fuel tank mounting
	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.
			·
	410144B		Fuel Cap (White Plastic)(Std.)(As req uired)
105	33032		Fuel Cap (Red Plastic) (Spurt resistant, Low profile) (Use as required)
105	34210		Fuel Cap (Red Plastic) (Spurt resistant, High profile) (Use as required)
405	25255		,
	35355		Fuel Cap (Red plastic) (Use as required)
	29774		Fuel Line (Braided, 8 1/4") (Use as r equired)
	30962		Fuel Line (Braided, 32") (Use as required)
	26460		Clamp, Fuel line (Use as required)
	32158E		Blower Housing (For electric starter)
	29747B		Screw, 5/16-24 x 21/32"
	34390		Deflector, Exhaust (Optional)
	33714		Opt.Spark Arrest Muf.(Incl.112,143,14 4,144A)
	391026		Opt.Spark Arrest Muf.(Incl.143,143A,1 43B)
	29633		Muffler
	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"
136	33997		Clip, Oil fill tube
137	32410		Knob, Speed control
138	34663		Spring, Speed control
139	650821		Screw, 10-32 x 1/2"
140	30747		Clip, Spark plug shorting
141	650890		Lockwasher, Shakeproof, 5/16
143A	33171		Screen, Muffler (Use as required)
143B	33185		Cover & tube, Muffler (Use as require d)
143	650578		Screw, 8-18 x 3/8" (Use as required)
144	33700		Cover & Tube, Muffler (Use as require d)
144A	33323		Screen, Muffler (Use as required)
	34011A		Dipstick (Incl. 146)
	33590		"O" Ring
	33893A		Oil Fill Tube
	32961		Valve, Fuel shut off
	730561		Air Cleaner Kit
20.0			(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)

	Part Number	Qty	Description
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)
230B 230C 230 230 231 231A 232A 240 241 242 242 243 244	730130 35344 34704 34346 550223 30547A 30548B 631021 611077 650868 611078 611079 590610 590613 632257		Muffler Adapter Kit (Incl.110,112)(As req.) Decal, Control Decal, Instruction Decal, Instruction Decal, Name Breaker Assy (Used on Std. Point igni tion) Condenser Inlet, Needle Seat & Clip Assy. Alternator (Optional) Screw, 8-18 x 1-1/8" (3 required)(Opt.) Connector, A.C. Lighting (Optional) Connector, D.C. Charging (Optional) Tube, Centering (Optional) Alternator Shaft (Optional) Carburetor (Incl. 85) (Refer to Division 5, Section A, page 184 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*)