Engine Parts List ILLUSTRATION SHOWS TYPICAL PARTS ONLY. ORDER BY PART NUMBER. PARTS NOT LISTED ARE SUPPLIED BY CEM. 148A **62** [^] 57A 27-3 ₹ 231 231A 119. 230D

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1 2 3 4	Part Number 34919A 27652 27642 32630 29536	Qty	Description Cylinder (Incl. 2,3 & 4) (2-5/8" Bore) Pin, Dowel Pipe plug, 1/4-18 Seal, Oil Blower Housing Baffle (Without electric starter knock out) (Use as required)
5	35256A		Blower Housing Baffle (With electric starter knockout) (As req.)(point ign.)
7 8 9 10	650561 29538 650542 35193 29783 27884		Screw, 1/4-20 x 5/8" Base, Engine mounting Screw, 5/16-18 x 3/4" Crankshaft Pin, Crankshaft gear (Used on early p rod.) Gear, Crankshaft (Used on early production) This gear is serviceable ONLY when it is pinned to the crankshaft.
13 13A 13A 13A 13A 14 15 15 16 17 18 20 21 22 23 24 25 26 27 28 29 30 31 33 34 35 36 37 38 39 40 41 41 42 42	34531 34532 34533 33312B 33313B 33314B 27888 34854 34855 34856 31380C 650662C 34034 30622A 650128 650561 30063 30684 31303B 31546 28427 650488 650493 30699C 30700 650494 29642 31845 30588A 35479 29193 30591 31843A 650836 32783 32784 27878A 27880A		Piston, Pin & Ring Set (Std.) (2-5/8" Bore) Piston, Pin & Ring Set (.010" OS) Piston, Pin & Ring Set (.020" OS) Piston, Pin & Ring Set (.020" OS) Piston & Pin Ass'y. (Std.)(2-5/8")(In cl.14) Piston & Pin Ass'y. (.010" OS) (Incl. 14) Piston & Pin Ass'y. (.020" OS) (Incl. 14) Ring, Piston pin retaining Ring Set (Std.) (2-5/8" Bore) Ring Set (.010" OS) Ring Set (.010" OS) Ring Set (.020" OS) Rod Assy., Connecting (Incl. 17) Bolt, Connecting rod (Incl. 2 pieces) Lifter, Valve Extension, Blower housing Screw, 10-24 x 1/2" Screw, 1/4-20 x 5/8" (Use as required) Screw, 1/4-20 x 1/2" (Use as required) Gasket Cylinder Cover Cover, Cylinder (Incl. 26 & 34) Bushing, Crankshaft Seal, Oil Screw, 1/4-20 x 1-1/4" Screw, 1/4-20 x 1-1/4" Screw, 1/4-20 x 1-1/4" Rod Assy., Governor (Incl. 30 & 31) Yoke, Governor Screw, 6-40 x 5/16" Ring, Retaining Shaft, Mechanical governor Spool, Governor Washer, Flat Ring, Retaining Gear Assy., Governor gear Screw, 10-24 x 1/2" Intake Valve (Std.) Intake Valve (1/32" OS) Exhaust Valve (Std.) Exhaust Valve (Std.) Exhaust Valve (spon) Cap, Upper valve spring
44	27881 32581		Spring, valve Cap, Lower valve spring

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Ref #	Part Number Qty	Description
47	650814	Screw, 10-24 x 1"
48	35183	Wire, Ground
49	32589	Key, Flywheel
51	28938C	Gasket, Cylinder head
52	30938A	Head, Cylinder
53	33636	Resistor Spark Plug (RJ-8C)
	610118	Cover, Spark plug (Use as required)
	30939A	Cover Assy., Cylinder head
	650691	Washer, Flat (Use as required)
	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 requi red)
	650690	Washer, Belleville (Use as required)
	29916	Clamp, Governor lever (Use as require d)
	30322	Locknut, 8-32
	33454	
	29918	Lever Assy., Governor
	650548	Washer, Lock, No. 8 E.T.
		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
75	28423	Breather Assy., Valve
76	28424	Element, Breather
77	28425	Cover, Valve spring box
78	650128	Screw, 10-24 x 1/2"
79	35350	Tube Breather
82	27915A	* Gasket, Intake pipe to cylinder
83	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) (Use in
0-17 (0.1010	730561 assembly only)
		• • • • • • • • • • • • • • • • • • • •
	34167	Bracket, Fuel tank
102	650665	Screw, 1/4-14 x 7/8"
103	34168	Bracket, Fuel tank mounting
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.
405	22222	First Car (Pad Disatis) (Count resistant Lawrensfile) (Near a
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
100		required)
		• ,
	35355	Fuel Cap (Red plastic) (Use as requir ed)
105	410144B	Fuel Cap (White Plastic)(Std.)(As req uired)
	WWW MUMAW	Arnaria com

Fuel Cap (White Plastic)(Std.)(As req uired)

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Ref #	Part Number	Qty	Description
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
	33714		Opt.Spark Arrest Muf.(Incl.112,143,14 4,144A)
	391026		Opt.Spark Arrest Muf.(Incl.143,143A,1 43B)
	34390		Deflector, Exhaust (Optional)
	35275		Muffler
	30196		Screw, 5/16-18 x 3/4"
	26073		Washer, Flat
	650694A		Screw, 5/16 - 18 x 2"
	32125		Cup, Starter
	35009		Screen, Starter cup
	650815		Washer, Belleville
	8116		Nut, Hex
	29716		Screw, 1/4-28 x 7/16"
	31691		Bracket, Air cleaner
	28820		Screw, 10-32 x 1/2"
	30727		Element, Air cleaner
	31715		Body, Air cleaner
	650152		Screw, 8-32 x 3/8"
	34246		Clip, Ground wire
	34663		Spring, Speed control
	650821		Screw, 10-32 x 1/2"
	30747		Clip, Spark plug shorting
	650890		Lockwasher, Shakeproof, 5/16
	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)
146A	29673		* Gasket, Oil fill
160	650760		Screw, 8-32 x 3/8"
	33356		Terminal, Ground
161	28545		Grommet, Plastic
	34174		Deflector, Exhaust
168	650665		Screw, 1/4-15 x 7/8"
	730130		Muffler Adapter Kit (Incl.110,112)(As req.)
201B	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	720464		•
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)
200	611084		Flywheel
	650872		Stud, Solid State mounting
	34443A		Solid State Assy. (Incl. 54)
	34346		Decal, Instruction
	550223		Decal, Name
	30547A		Breaker Assy (Used on Std. Point igni tion)
	631021		Inlet, Needle Seat & Clip Assy.
ZSZA	001021		inier, needie Jear & Olip Assy.

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Ref #	Part Number	Qty	Description
240	611077		Alternator (Optional)
241	650868		Screw, 8-18 x 1-1/8" (3 required)(Opt .)
242	611078		Connector, A.C. Lighting (Optional)
	611079		Connector, D.C. Charging (Optional)
	590610		Tube, Centering (Optional)
	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 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*)