

SERVICE PARTS LIST

FRANKLIN AIRCRAFT ENGINES

Model 6A8-215-B8F

Parts Should Be Purchased
From Authorized Franklin
Distributors Listed. Give
The Engine Number And The
Approximate Date Of Its
Delivery To You.

AIRCOOLED MOTORS, INC.

Syracuse, New York

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY. PER ENGINE</u>
I		
<u>CAMSHAFT</u>		
15294	Camshaft Assembly	1
15292	Camshaft - Not Furnished Separately (Steel)	
15289	Shaft - Accessory Drive	1
15288	Screw - Accessory Drive Shaft Set	1
6x16	Key - Woodruff #5, Accessory Drive Shaft To Camshaft	1
15287	Gear - Tachometer Drive	1
15296	Washer - Tachometer Drive Gear Spacer	1
15286	Spacer - Tachometer Drive Gear	1
32x14	Wire - Lacing	6"

(When replacing earlier camshaft assemblies with #15294, proper valve lifter rods must be furnished & #14609 camshaft gear must replace #14924 used on engines to #23108 inclusive)

14924	Gear - Camshaft (Eng. 23001 to 23108 incl.)	1
14609	Gear - Camshaft (Eng. 23109 and up)	1
6x13	Key - Woodruff #9, Timing Gear	1
14510	Gear - Magneto Drive	1
6x116	Key - Woodruff #2, Magneto Drive Gear To Shaft	1

II

CRANKCASE

15111	Crankcase Assembly	1
14456	Crankcase Half (Cyl. 2-4-6)) Not Furnished	
14455	Crankcase Half (Cyl. 1-3-5)) Separately	
#14618	Stud - Propeller Shaft Housing	10
#14489	Stud - Cylinder Hold-down	42
#14476	Stud - Crankshaft Bearing	6
#13525	Stud - Propeller Shaft Housing	4
#13392	Stud - Crankshaft Bearing	2

Service Oversize Only

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY. PER ENGINE</u>
13605	Bolt - Crankcase, Lower	4
13539	Dowel - Crankshaft Bearing Stud	8
13538	Dowel - Crankcase, Upper	2
12433	Connector - Oil, Prop. Shaft Hsg. & Oil Pump	2
19022	Washer - Crankcase Bearing Stud	2
28x848	Dowel - 5/16 x 7/8, Propeller Shaft Housing	2
28x83	Dowel - 1/4 x 3/4, Oil Pump	1
7x33	Plug - Iron Sltd. 3/8, Headless Pipe Plug, C'case	3
23x64	Nut - Elastic Stop 7/16-20, Crankshaft Brg. Stud	2
23x62	Nut - Elastic Stop 5/16-24, Crankcase Upper	11
28x817	Dowel - Br. 5/32 x 5/16, Thrust Washer To C'case	8
31x21	Thread - Silk #40, Between Crankcase 30"	1
2x234	Screw - Hex Head 5/16-24 x 1-9/16, Top Rail	10
5x22	Washer - Plain 5/16, Lower Bolt	29
3x84	Nut - Castle 5/16, Lower Bolt	4
2x238	Screw - Hex Hd. 5/16-24 x 2-1/4, Top Rail & Generator Link Bracket (Eng. 23008 & up)	1
8x118	Pin - Cotter 1/16 x 5/8, Lower Bolt	4
#18171	Stud - Timing Gear Case	8
15163	Ring - Main Bearing Stud Oil Seal (Use only With Crankcases Properly Countersunk to Receive This Ring)	8
7x32	Plug	1
14622	Bracket - Engine Mounting, Fan End, Even	1
14621	Bracket - Engine Mounting, Fan End, Odd	1
14519	Bracket - Engine Mounting, On Propeller Housing	1
13539	Dowel - Engine Mounting Bracket	2
2x234	Screw - Hex Hd. 5/16-24 x 1-9/16, Top Rail)To Eng.	7
2x235	Screw - Hex Hd. 5/16-24 x 1-11/16, Top Rail)23007 And Generator Link Bracket)Incl.	4
2x197	Screw - Hex Hd. 3/8-16 x 1-5/8) Engine Mtg.	2
2x196	Screw - Hex Hd. 7/16-14 x 1-5/8) Bracket	4
2x188	Screw - Hex Hd. 3/8-16 x 1-1/8, Eng. Mtg. Nose Brkt.	2
15175	Washer - Lock)Engine Mounting Bracket	4
15176	Washer - Lock)To Crankcase	4

III

CRANKSHAFT

15112	Crankshaft Assembly	1
15216	Crankshaft - Not Furnished Separately	
14719	Plug - Crankshaft	1
27x120	Plug - Expansion - Not Furnished Separately	

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<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY. PER ENGINE</u>
14798	Shaft - Propeller	1
14686	Gear - Crankshaft	1
15198	Slinger - Propeller Shaft Oil	1
15054	Washer - Crankshaft Thrust	4
15126	Sleeve - Propeller Shaft Oil Seal	1
##14797	Bushing - Crankshaft	8
14487	Bolt - Propeller Shaft	8
8x118	Pin - Cotter 1/16 x 5/8, Propeller Shaft Bolt	8
6x11	Key - Woodruff 1/4 x 7/8, Crankshaft Gear	2
3x84	Nut - Castle 5/16-24, Propeller Shaft To C'shaft	8

IV

CYLINDER

15199	Cylinder Assembly (Eng. 23001 to 23057 Incl.)	6
14889	Cylinder - Not Furnished Separately	
15160	Liner - Cylinder	6
#13622	Guide - Exhaust Valve	6
#13621	Guide - Inlet Valve	6
15219	Insert - Exhaust Valve Seat	6
15218	Insert - Inlet Valve Seat	6
17475	Insert - Spark Plug Helicoil	12
14187	Valve - Exhaust (.4350 Stem Dia. Between Valve Head & locking Groove)	6
14652	Valve - Inlet	6
13547	Spring - Inner Valve	12
13548	Spring - Outer Valve	12
13563	Washer - Valve Spring, Upper	12
15118	Washer - Valve Spring, Bottom, Cupped	12
13542	Washer - Valve Spring, Bottom, 1/32 Shim	As Req.
13541	Washer - Valve Spring, Bottom, 1/64 Shim	As Req.
14667	Key - Valve Spring Washer	24
#13410	Stud - Inlet Manifold	12
14848	Tube - Exhaust Port (Includes Flange #14716)	6
14740	Nut - Exhaust Stud	12
#10191	Stud - Exhaust Tube	12
2x187	Screw - Rocker Support Cap)Use With Machined	24
13608	Washer - Valve Rocker Support)Rocker Lock, Outer)Supports	12
2x1103	Screw - Rocker Support Cap)Use With Stamped	24
14872	Washer - Valve Rocker Support)Rocker Lock, Outer)Supports	12

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 ## Available In Undersize

17667 Stud - Rocker Support - Drive 1-1/2" High ?
 (17667 - Number added by hand on original document)

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<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY. PER ENGINE</u>
13607	Washer - Valve Rocker Support)Use With Both Lock, Center)Types of Rocker Supports	2
15209	Cylinder Assembly (Engine 23058 and up - also can be used to replace #15199, sodium valve, if desired)	6
14889	Cylinder - Not Furnished Separately	6
14819	Liner - Cylinder	6
15219	Insert - Exhaust Valve Seat	6
15218	Insert - Inlet Valve Seat	6
#15208	Guide - Inlet and Exhaust Valve	12
14653	Valve - Exhaust (.4038 Stem Dia. Between Valve Head & Locking Groove)	6
14652	Valve - Inlet	6
17475	Insert - Spark Plug Helicoil	12
13563	Washer - Valve Spring, Upper	12
15118	Washer - Valve Spring, Bottom, Cupped	12
13548	Spring - Valve, Outer	12
13547	Spring - Valve, Inner	12
13542	Washer - Valve Spring, Bottom Shim 1/32	As
Req.		
13541	Washer - Valve Spring, Bottom Shim 1/64	As
Req.		
14667	Key - Valve Spring Washer	24
11139	Stud - Inlet Manifold	12
#10191	Stud - Exhaust Tube	12
14848	Tube - Exhaust Port (Includes Flange #14716)	6
14740	Nut - Exhaust Stud	12
2x187	Screw - Rocker Support Cap)Use With Machined	24
13608	Washer - Valve Rocker Support)Rocker Lock, Outer)Supports	12
14148	S/P Helicoil (Added by hand on original document)	?
2x1103	Screw - Rocker Support Cap)Use With Stamped	24
14872	Washer - Valve Rocker Support)Rocker Lock, Outer)Supports	12
13607	Washer - Valve Rocker Support)Use With Both Types Lock, Center)of Rocker Supports	12
15157	Pin - Cylinder Liner Lock	12
14248	Screw - Cylinder Liner Lock Pin	24
18048	Ring - Cylinder Seal (Use With Shoulder Liner)	6
17729	Ring - Cylinder Seal (Use With Straight Liner)	6
19122	Washer)Cylinder Hold-down & Main	48
23x63	Nut - Elastic Stop 7/16-20)Bearing Studs	48
#17667	Stud - Valve Rocker Support (May Be Replaced with Cap Screw 2x1103 & Washers 14872 & 13607 or Cap Screw 2x187 & Washers 13608 & 13607)	24

Service Oversize Only

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY. PER ENGINE</u>
V <u>VALVE MECHANISM</u>		
15166	Rod Assembly - Valve Lifter (Used With 15294)Eng.	
	Camshaft & Forged Valve Rockers, Also)23109	
	Camshaft 14534 & Stamped Rocker))to	12
15165	Rod - Valve Lifter)Not	)23275
14130	Button - Valve Lifter Rod)Furnished	)Incl.
14129	Cup - Valve Lifter Rod)Separately)
14625	Rod Assembly - Valve Lifter (Used With 14818)To	
	Camshaft & Forged Valve Rockers))Eng.	12
14624	Rod - Valve Lifter)Not	)23108
14130	Button - Valve Lifter)Furnished	)Incl.
14129	Cup - Valve Lifter Rod)Separately)
14650	Rod Assembly - Valve Lifter (Used With 15294)Eng.	
	Camshaft & Stamped Valve Rockers))23275	12
14649	Rod - Valve Lifter)Not	)and
14130	Button - Valve Lifter Rod)Furnished	)up
14129	Cup - Valve Lifter Rod)Separately)
15335	Valve - Hydraulic Lifter (For 15143 & 15278 Lifter)	12
15336	Ring - Hydraulic Lifter Valve Retaining (For 15143	
	& 15278 Lifter)	12
16400	Lifter - Valve (Old No. 15278)	12
14949	Tube assembly - Valve Lifter Rod	12
14721	Tube - Valve Lifter Rod - Not Furnished Separately	
13579	Circlet - Valve Lifter Rod Guide	12
13641	Packing - Valve Lifter Rod Tube	24
14799	Rocker Assembly - Exhaust Valve (Forging)	
	(Engine 23001 to 23275 Incl.)	6
14121	Rocker - Exhaust Valve)Not	
17404	Bushing - Valve Rocker)Furnished	
12036	Plug - Valve Rocker Oil Hole)Separately	
14122	Rocker Assembly - Inlet Valve (Forging)	
	(Engine 23001 to 23275 Incl.)	6
14121	Rocker - Inlet Valve)Not Furnished	
17404	Bushing - Valve Rocker)Separately	
14203	Support - Valve Rocker, Outer)Eng.	12
14627	Support - Valve Rocker, Center)23001 to	6
13607	Washer - Valve Rocker Support Lock, Center)23275	6
13608	Washer - Valve Rocker Support Lock, Outer)Incl.	

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3x93	Nut - Valve Rocker Support)Eng. 23001	24
14209	Screw - Valve Rocker Adjusting) to	12
3x214	Nut - Hex Jam Adj. Screw 5/16-24)23275 Incl.	12
14803	Rocker Assembly - Inlet Valve (Stamping) (Engine 23276 and up)	6
17404	Bushing - Valve Rocker - Not Furnished Separately	
14821	Support - Valve Rocker, Center)	6
*13607	Washer - Valve Rocker Support Lock, Center)	6
14673	Support - Valve Rocker, Outer)Engine	12
*14872	Washer - Valve Rocker Support Lock, Outer)23276	12
*2x1103	Screw - Hex Hd. 5/16-18 x 2-1/8, Rocker Support)and	24
17654	Screw - Valve Rocker Adjusting)up	12
3x210	Nut - Hex Jam 3/8-24, Adjusting Screw)	12
14938	Pin Assembly - Valve Rocker	12
12047	Pin - Valve Rocker)Not Furnished	
27x110	Plug - Expansion 7/16, Valve Rocker Pin) Separately	
14787	Cover - Valve	6
14724	Gasket - Valve Cover	6
12x28	Screw - Fill. Hd. 1/4-28 x 3/8, Valve Cover	36
19x14	Washer - Shakeproof Lock 1/4, Valve Cover	36

VI

FAN AND STARTER GEAR ASSY.

14942	Fan And Starter Gear Assembly	1
15190	Fan - Not Furnished Separately	
14505	Bushing - Fan Bolt, Conical	16
14504	Spacer - Fan Bolt	8
13805	Washer - Fan Bolt, 1/8 Thick	As Req.
13803	Washer - Fan Bolt, .025 Thick) For	As Req.
13802	Bolt - Fan, 2-1/8) Balancing	As Req.
13801	Bolt - Fan, 2)	As Req.
13800	Bolt - Fan, 1-7/8	As Req.
13432	Washer - Fan Bolt	16
23x62	Nut - Elastic Stop 5/16-24, Fan Bolt	8
5x22	Washer - Plain 5/16, Fan Bolt	8

* Also Shown In Cylinder Assembly #15209

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<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY. PER ENGINE</u>
14815	Starter Gear Assembly	1
14603	Gear - Starter Ring) Not	
14814	Wheel - Starter Gear)Furnished	
28x846	Dowel - 3/16 x 7/32)Separately	
14935	Sheave Assembly - Generator Drive	1
14934	Sheave - Generator Drive) Not Furnished	
14933	Hub - Generator Drive Sheave)Separately	
12x35	Screw - Flat Hd. #6-32 x 5/16, Sheave to Hub (To Engine 23050 Incl.)	4
6x11	Key - Woodruff 1/4 x 7/8, Hub to Crankshaft	2
14833	Slinger - Crankshaft Oil	1
14620	Washer - Starter Gear Hub Lock	1
14601	Bolt - Starter Gear Nub To Crankshaft	6
5x16	Washer - Starter Gear	8
17778	Bolt - Starter Gear To Hub	8
14813	Hub - Starter Gear	1
32x14	Wire - Steel Lacing (For Starter Gear To Hub Bolt)	36"

VII

MANIFOLD

14231	Manifold - Inlet	2
#14075	Stud - Inlet Manifold (9/16 by hand on original)	4
14526	Zone - Distributing	1
#11139	Stud - Carburetor	4
15064	Pipe - Manifold Equalizer, Even Side	1
14630	Adapter - Man. Equal. Pipe - Not Furnished Separately	
15063	Pipe Assembly - Manifold Equalizer, Odd Side	1
14630	Adapter - Man. Equal. Pipe - Not Furnished Separately	
14627	Packing - Inlet Manifold	6
14527	Pipe - Distributing Zone	2
14628	Flange - Inlet Manifold	6
14824	Clamp - Equalizer Pipe Hose	2
14687	Hose - Equalizer Pipe	1
14718	Gasket - Inlet Manifold Pipe	6
23x61	Nut - Elastic Stop 1/4-28, Equalizer Pipe to Man.	16

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<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY. PER ENGINE</u>
19x14	Washer - Shakeproof Lock 1/4, Equal. Pipes To Zone	8
5x21	Washer - Plain 1/4, Pipes To Manifold	16
2x222	Screw - Hex Hd. 1/4-28 x 1-9/32, Equal. Pipes To Man.	12
2x149	Screw - Hex Hd. 1/4-20 x 5/8, Pipes To Zone	8
23x62	Nut - Elastic Stop 5/16-24, Manifold To Cylinder	12
19x17	Washer - Shakeproof Lock 5/16, Zone To Housing	4
6x22	Washer - Plain 5/16, Manifold To Cylinder	12
2x171	Screw - Hex Hd. 5/16-18 x 1-1/8, Zone To Housing	4

VIII

OIL LEVEL GAUGE AND OIL COOLER

14535	Gauge Assembly - Oil Level)Eng. 23001	1
10727	Stem - Oil Level Gauge)Not Furnished)to 23007	
10556	Collar - Oil Level Gauge)Separately)Incl.	
14692	Gauge Assembly - Oil Level (Eng. 23008 and up)	1
7832	Clip - Oil Level Gauge Spring - Not Furnished Separately	
7415	Washer - Oil Level Gauge Felt	1
14691	Tube - Oil Level (Engine 23008 and up)	1
15114	Washer - Temperature Hole Plug) Engine 23437	1
18536	Plug - Crankcase Temp. Hole) and up	1
15238	Cooler Assembly - Oil	1
15181	Cooler - Oil) Not	
12706	Plug - Oil Temperature Hole) Furnished	
12707	Washer - Oil Temp. Hole Plug) Separately	
32x14	Wire - Lacing)	
17932	Ball - Cooler Relief Valve	1
17925	Washer - Relief Valve Nut	1
14835	Adapter - Thermometer Gauge	1
14804	Spring - Cooler Relief Valve	1
14039	Seal - Oil Cooler (Not In Gasket Assembly)	2
12707	Gasket - Oil Temperature Hole Plug	1
10508	Cap - Oil Filler	1
14688	Gasket - Oil Filler Cap	1
2x167	Screw - Hex Head 5/16-18 x 3/4, Oil Cooler To Crankcase	6

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY. PER ENGINE</u>
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IX

OIL PUMP

14539	Pump Assembly - Oil (To Engine 23375 Incl.) (Service With Oil Pump Assembly 15100)	1
14472	Body - Oil Pump	1
14711	Cover Assembly - Oil Pump (Service Kit #15276)	1
14850	Cover - Oil Pump) Not	
14710	Pipe - Oil Inlet) Furnished	
17679	Stop - Oil Inlet Float) Separately	
10672	Gear - Oil Pump Drive	1
17590	Gear - Oil Pump Driven	1
17734	Shaft - Oil Pump Drive	1
17735	Shaft - Oil Pump Stationary	1
15025	Gear - Oil Pump Shaft (Cast)	1
6x114	Key - Woodruff #212, Oil Pump Gears To Shaft	2
2x315	Screw - Dr. Hex Hd. 1/4-20 x 3/4) Cover To	4
5x21	Washer - Plain 1/4) Pump Body	4
*10997	Spring - Oil Pump Relief Valve	1
*18976	Plunger - Relief Valve Spring	1
*17731	Nut - Oil Pump Relief valve Spring	1
*15114	Washer - Relief Valve Nut	1
*14733	Housing - Relief Valve	1
*2x152	Screw - Hex Hd. 5/16-18 x 1-5/8 Relief Valve Hsg. To Crankcase	4
*2x333	Screw - Dr. Hex Hd. 5/16-18 x 1-1/8 Oil Pump To C'case	3
*5x22	Washer - Plain #16, Pump & Inlet Pipe Brkt. To C'case	5
*32x14	Wire - .041 Steel Lacing, Oil Pump & Inlet Pipe Bracket To Crankcase & Clamp To Bracket	25"
*12x216	Screw - Dr. Fil. Hd. 5/16-18 x 5/8, Inlet Pipe Bracket To Crankcase	2
*5x25	Washer - Plain #10) Oil Inlet	1
*12x47	Screw - Dr. Fil. Hd. 10-32 x 1/2) Pipe Clamp	1
*3x32	Nut - Hex #10-32) To Bracket	1

When replacing Oil Pump Assembly #14539 With Oil Pump Assembly No. 15100, it is necessary to install a new relief valve and all component oil pump parts except those common to both assemblies.

15100	Pump Assembly - Oil (Engine 23376 and up)	1
15152	Body - Oil Pump	1
15098	Cover Assembly - Oil Pump	1
15097	Cover - Oil Pump - Not Furnished Separately	
28x832	Dowel - 1/8 x 3/8, Cover To Body	2

* To Engine No. 23375 Incl.

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY. PER ENGINE</u>
15091	Shaft - Oil Pump Drive	1
15092	Shaft - Oil Pump Stationary	1
15093	Gear - Oil Pump Drive, 7 teeth	1
15094	Gear - Oil Pump Driven, 7 teeth	2
15122	Plate - Oil Pump Shaft	1
18277	Lockwasher - Oil Pump Shaft	2
2x150	Screw - 1/4-20 x 3/4, Hex Hd., Cover To Pump	4
2x166	Screw - 1/4-20 x 1/2, Hex Hd., Shaft Plate To Pump	2
6x114	Key - #212 Woodruff, Gears To Shaft	2
15109	Pipe Assembly - Oil Pump Inlet (Eng. 23376 and up)	1
10327	Flange - Oil Pump Pipe) Not	
15095	Stop - Oil Inlet Float) Furnished	
15096	Pipe - Oil Inlet Float) Separately	
10091	Gasket - Oil Pump Pipe)	1
15107	Housing - Relief Valve, By-Pass Plate)	1
15104	Plunger - Oil Pump Relief Valve)	1
15105	Spring - Oil Pump Relief Valve)	1
15106	Nut - Oil Pump Relief Valve Spring)Eng.	1
15114	Lockwasher - Relief Valve Nut)23376	1
15169	Lockwasher - Oil Inlet Pipe To Cover)and	2
15170	Lockwasher - Oil Pump To Crankcase)up	3
15171	Lockwasher - Bracket To Crankcase)	2
15172	Screw - Oil Inlet Pipe Clamp)	1
2x150	Screw - 1/4-20 x 3/4 Hex Hd. Inlet Pipe to Cover)	2
2x155	Screw - 5/16-18 x 1-3/4 Hex Hd., Relief Valve) Housing To Crankcase)	4
2x169	Screw - 5/16-18 x 5/8 Hex Hd., Brkt. To C'case)	2
2x171	Screw - 5/16-18 x 1-1/8 Hex Hd., Pump To C'case)	3
3x86	Nut - #10-32 Castle, Bracket Clamp Screw)	1
5x25	Washer - #10 Plain, Bracket Clamp Screw)	1
8x114	Pin - 1/16 x 1/2 Cotter, Clamp Screw)	1
<u>PARTS COMMON TO 14539 AND 15100 OIL PUMP GROUPS</u>		
15282	Screen - Oil Inlet	1
14712	Bracket - Oil Inlet Pipe	1
14946	Clip - Oil Inlet Float	1
14734	Gasket - Relief Valve Housing	1
15234	Clamp - Oil Inlet Pipe	1
*15025	Gear - Oil Pump Shaft, 16 Teeth (Cast)	1
6x114	Key - Woodruff #212, Gears To Shaft	2
8x116	Pin - 1/8 x 1 Cotter, Oil Float	1
19x17	Lockwasher - 5/16 Shakeproof, Relief Valve Housing To Crankcase	4

*Early engines were quipped with a steel gear. When replacement is necessary, use No. 15025 only.

X

OIL PAN

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY. PER ENGINE</u>
14468	Pan - Oil	1
17687	Bushing - Oil Pan Drain Plug-Not Furnished Separately	
15197	Gasket - Oil Pan	1
10239	Plug - Oil Drain	1
32x14	Wire - .041 Steel Lacing, Oil Drain Plug	5"
23x62	Nut - Elastic Stop 5/16-24, Oil Pan To Timing) Case)Eng.	5
19x17	Washer - Shakeproof Lock 5/16, Oil Pan To)23001 Timing Case)to	2
5x22	Washer - Plain 5/16, Oil Pan To timing Case)23027	5
2x223	Screw - Hex Hd. 5/16-24 x 1, Oil Pan To)Incl. Timing Case)	5
2x167	Screw - Hex Hd. 5/16-18 x 3/4, Oil Pan To) Timing Case)	5
15070	Plate - Oil Pan Flange	1
23x62	Nut - Elastic Stop 5/16-24)Engine 23028	7
2x223	Screw - Hex Hd. 5/16-24 x 1)and up	7
5x22	Washer - Plain 5/16)	5
2x167	Screw - Hex Hd. 5/16-18 x 3/4)Oil Pan To	26
19x17	Washer - Shakeproof Lock 5/16)Timing Case	26
5x16	Washer - Plain 5/16)& Crankcase	14

XI

PISTONS AND RINGS

14450	Piston (7:1)	6
@14471	Pin - Piston	6
14494	Plug - Piston Pin	12
14462	Ring - Piston, Second Groove	6
14463	Ring - Piston, Third Groove	6
14475	Ring - Piston, Top Groove	6

XII

CONNECTING ROD

14923	Rod Assembly - Connecting	6
14676	Rod - Connecting - Not Furnished Separately	
14730	Bolt - Connecting Rod	12
12201	Nut - Connecting Rod	12
13625	Bushing - Connecting Rod , Upper	6

@ Available In Oversize

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##14805	Bushing - Connecting Rod, Lower	12
8x112	Pin - Cotter 3/32 x 3/4, Connecting Rod Bolts	12

XIII

TIMING GEAR CASE

14670	Case - Timing Gear	1
19x17	Washer - Shakeproof Lock, 5/16 To Crankcase	14
14708	Seal - Timing Gear Case, Crankshaft Oil	1
15196	Gasket - Timing Gear Case	1
2x184	Screw - Hex Hd. 5/16-18 x 2, Crankcase To Timing Case	2
2x183	Screw - Hex Hd. 5/16-18 x 7/8) To Engine	9
2x171	Screw - Hex Hd. 5/16-18 x 1-1/8) 23007 Incl.	3
14927	Spacer - Timing Gear Case	1
	(To Be Installed With 14670 Timing Gear Case On Engines 23001 to 23007 Incl.)	
2x184	Screw - Hex Hd. 5/16-18 x 2)	2
2x183	Screw - Hex Hd. 5/16-18 x 7/8) Eng. 23008 to Timing Gear Case To Crankcase) 23027 Incl.	12
@2x169	Screw - Hex Hd. 5/16-18 x 5/8) Eng. 23028	4
2x13	Screw - Hex Hd. 5/16-18 x 1) and up	2
5x22	Washer - Plain 5/16, To Crankcase	8
23x62	Nut - Elastic Stop 5/16-24, To Crankcase	8
15150	Plate - Timing Gear Case Flange	1

XIV

PROPELLER SHAFT HOUSING

14940	Housing Assembly - Propeller Shaft	1
15129	Housing - Sub-Assembly-Propeller Shaft) Not	
14822	Housing - Propeller) Furnished	
14607	Bushing - Accessory Drive Shaft) Separately	
15128	Dowel - Nose Plate, Threaded)	4
5573	Tube - Breather (Rigid)	1
#11139	Stud - Magneto	4
7x15	Plug - 1/4 Iron Dr. Shank Pipe (oil Drain)	2
7x32	Plug - 1/4 Iron Sltd.)Head-	1
7x33	Plug - 3/8 Iron Sltd. (Prop. Oil Return))less	2
7x35	Plug - 3/8 Iron Sltd. (Crankcase Face))Pipe	1
7x42	Plug - 1/8 Alum. Hex Socket Pipe (Nose Brg.)	1
7x45	Plug - 3/8 Alum. Hex Socket Pipe (Nose Face)	1
8x17	Pin - Cotter 3/32 x 1/2, Breather Tube To Prop. Hsg.	1

Service Oversize Only @IMPORTANT that only 2x169 Screw
 ## Available In Undersize be used in 3rd Mtg. Hole From The
 Top on Left Side of Crankcase

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<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY. PER ENGINE</u>
14830	Baffle - Propeller Shaft Housing	1
12x42	Screw - Fill. Hd. #10-32 x 5/8)Baffle	4
5x25	Washer - Plain #10)To	4
23x65	Nut - Elastic Stop #10-32)Housing	4
15133	Plate Assembly - Propeller Shaft Nose	1
15132	Plate - Prop. Shaft Nose-Not Furnished Separately	
#15131	Stud - Propeller Control Cylinder	2
15125	Bearing - Propeller Shaft	1
11204	Spacer - Nose Plate Stud	6
28x848	Dowel - Mounting Bracket 5/16 x 7/8	2
15123	Spring - Nose Plate Dowel	4
15124	Screw - Nose Plate Dowel Spring	4
15153	Packing - Nose Plate Ring) Not In Gasket	1
15163	Packing - Nose Plate Dowel Ring) Assembly	1
28x742	Seal - Nose Plate Oil	1
3x94	Nut - 3/8-24, On Control Cylinder Studs	2
23x11	Palnut - 3/8-24, On Control Cylinder Studs	2
23x62	Nut - Elastic Stop 5/16-24, Prop. Shaft Hsg. To C'case	14
5x23	Washer - Plain 3/8, Nose Plate To Prop. Shaft Hsg.	6
5x22	Washer - Plain 5/16, Prop. Shaft Hsg. To Crankcase	14
4x115	Washer - #10 Spring Lock Nose Plate Dowel Screw	4
14839	Bushing - Propeller Housing Cross Shaft	1
14700	Gasket - Propeller Shaft Housing	1
15027	Gasket - Propeller Shaft Housing Connector	1
25x12	Screw - Parker-Kalon, Name Plate, Prop. Shaft Hsg.	4
#14706	Stud - Nose Plate)Service With 14845 Nose Plate	6
14707	Gasket - Nose Plate)Only on Eng. To 23280 Incl.)	1

XV

CARBURETOR AND FUEL PUMP

14738	Carburetor - Marvel #10-3007	1
14702	Gasket - Carburetor	1
5x22	Washer - Plain 5/16, Carburetor To Zone	4
23x62	Nut - Elastic Stop 5/16, Carburetor To Zone	4
15439	Fuel Pump (AC) Odd Side	1
15438	Fuel Pump (AC) Even Side	1
2x198	Screw - Hex Hd. 3/8-16 x 3-1/16)Fuel Pump To	4
19x113	Washer - Shakeproof Lock 3/8)Prop. Shaft Hsg.	4
14701	Gasket - Fuel Pump	2
13976	Bushing - 3/8 x 1/4 Reducer, Fuel Pump AN-912-2D	2
12686	Elbow - Fuel Pump Inlet	2
32x14	Wire - .041 Steel Lacing)Service Only 14844 & 14523	6"
14879	Screw - Fuel Pump Drain)Fuel Pumps	4
)Eng. 23001 to 23050 Incl.	

Service Oversize Only

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<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY. PER ENGINE</u>
(CARBURETOR AND FUEL PUMP - GROUP XV - Continued)		
15440	Hose - Fuel Pump Drain	2
15480	Clip - Fuel Pump Drain Hose	2
15481	Bracket - Fuel Pump Drain Hose	2
13941	Clamp - Drain Hose	2
12x45	Screw - Fil. Head #10-32 x 1/2 (For Clip)	4
17x23	Nipple - Pipe Thread 1/8	2
25x24	Screw - Self Tapping #8 (Bracket To Housing)	4
5x25	Washer - Plain #10) Clip To	2
23x65	Nut - Elastic Stop #10-32) Bracket	2

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<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY. PER</u> <u>ENGINE</u>
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XVI

STARTER

14540	Motor - Starting (Delco))	1
14547	Housing - Starter Drive)Engines	1
14601	Bolt - Starter To; Bracket	)23001	4
14689	Bracket - Starter Support	)to	1
14867	Bracket - Starter Mounting	)23007	1
14900	Pointer - Timing Mark	)Incl.	1
2x329	Screw - Dr. Hex Hd. 3/8-16 x 1	)Starter To)	4
19x113	Washer - Shakeproof Lock 3/8	)Crankcase)	4
14861	Motor - Starting (Delco) (Engines 23008 to 23077 Incl.) Service With 15159 Starter		1
14869	Housing - Starter Drive	)For Service On	1
14857	Drive - Starter	)Starting Motor	1
14859	Bushing - Starter Drive Housing	)14861 Only On Eng.	1
14860	Shaft - Starter Drive	)23008 to 23077 Incl.	1
17024	Switch Assembly - Solenoid		1
14882	Connector - Starter Terminal	)Solenoid To Starter	1
19x14	Washer - Shakeproof Lock 1/4	)Eng. 23001 to 23007	2
2x166	Screw - Hex Hd. 1/4-20 x 1/2	)Incl.	2
15159	Motor - Starting E.A.L. MCJ-4002	)Engine	1
15046	Switch - Solenoid, Starting E.A.L. SST-4001A (Used With 14916 & 15159 Starting Motor Only)	)23008)and)up	1
14901	Pointer - Timing Mark		1
2x1105	Screw - Hex Hd. 3/8-16 x 1-3/8	) Starter To	4
19x113	Washer - Shakeproof Lock 3/8	) Crankcase	4
15185	Spacer - Starting Motor Insul. (Short)	)Must Be In-	1
15186	Spacer - Starting Motor Insul. (Long)	)stalled When	1
15202	Elbow - Starting Motor Insul.	)15159 Replace)14916	1

XVII

GENERATOR

14842	Generator - E.A.L. GGS-4801A - EO-8686		1
14868	Regulator - Voltage E.A.L. VRX 4401A - EO-8722		1
14884	Link - Generator Adjusting		1
14931	Bracket - Generator Hinge		2
14939	Bracket - Generator Link Mounting (For Fastenings See Crankcase Group Pg. 2)		1

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<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY. PER ENGINE</u>
14883	Belt - Generator 36"	1
15171	Lockwasher - Gen. To Link & Hinge, Brkt, To C'case	3
23x62	Nut - Elastic Stop 5/16-24, Gen. To Hinge Brkt. And Adjusting Link To Link Bracket	3
5x22	Washer - Plain 5/16, Adj. Link To Link Bracket 1, Hinge Bracket To Crankcase 2	3
5x19	Washer - Plain SAE 5/16) Generator to	1
2x167	Screw - Hex Hd. 5/16-18 x 3/4) Adjusting Link	1
2x223	Screw - Hex Hd. 5/16-24 x 1, Adj. Link To Link Brkt.	1
2x183	Screw - Hex Hd. 5/16-18 x 7/8, Hinge Brkt. To C'case	2
2x219	Screw - Hex Hd. 5/16-24 x 1-1/4, Gen. To Hinge Brkt.	2

XVIII

MAGNETO

14660	Magneto - Eismann LA6, Odd Side)Cushion	1
11047	Magneto - Eismann LA6, Even Side)Drive	1
19313	Absorber - Magneto Drive Shock	2
14511	Gear - Magneto Driven Shaft	1
14512	Coupling - Magneto Drive	2
14847-I	Spacer - Magneto Coupling, Width .1150	2
14847-II	Spacer - Magneto Coupling, Width .1250	2
14847-III	Spacer - Magneto Coupling, Width .1350	2
14847-IV	Spacer - Magneto Coupling, Width .1450	2
14847-V	Spacer - Magneto Coupling, Width .1550	2
14847-VI	Spacer - Magneto Coupling, Width .1650	2
14847-VII	Spacer - Magneto Coupling, Width .1750	2
14641	Screw - Propeller Housing Cross Shaft Set	1
14606	Washer - Propeller Housing Cross Shaft Thrust	1
5512	Gasket - Magneto	2
17953	Plug - Spark E.A.L. #A4	12
23x62	Nut - Elastic Stop 5/16-24, Mag. To Prop. Shaft Hsg.	4
18x114	Dowel - Accessory Shaft To Camshaft 1/4 x 1-1/4	1
6x116	Key - Woodruff #2, Mag. Drive Coupling To Shaft	2
5x19	Washer - Plain 5/16, Magneto To Housing	4
3x19	Nut - Hex Jam 1/4-20, Cross Shaft Set Screw	1
32x14	Wire - .041 Steel Lacing, Cross Shaft Set Screw	3"

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY. PER</u> <u>ENGINE</u>
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XIX

IGNITION WIRES

14x523	Wire Assembly - High Tension 22", #6 Exhaust, #5 Inlet	2
14x524	Wire Assembly - High Tension 29", #4 Exhaust	1
14x525	Wire Assembly - High Tension 31", #3 Inlet	1
14x526	Wire Assembly - High Tension 35", #2 Exhaust	1
14x527	Wire Assembly - High Tension 39", #1 & #6 Inlet, #5 Exhaust	3
14x528	Wire Assembly - High Tension 47", #3 Exhaust, #4 Inlet	2
14x529	Wire Assembly - High Tension 53", #2 Inlet	1
14x530	Wire Assembly - High Tension 55", #1 Exhaust	1

(The above assys. Include 1 ea. 18191 & 11073 terminals)

14899	Clamp - High Tension Wire (Six)	4
11073	Terminal - High Tension Wire (Magneto End)	12
18191	Terminal - High Tension Wire	12

XX

TACHOMETER DRIVE

14834	Drive Assembly - Tachometer	1
14516	Housing - tachometer Drive	1
14705	Gear - Tachometer Driven	1
14518	Connector - Drive	1
17745	Sleeve - Tachometer	1
18568	Packing - Tachometer Drive	1
19x32	Washer - Shakeproof 1/4)Tachometer Housing	2
2x166	Screw - Hex Hd. 1/4-20 x 1/2)To Prop. Housing	2
14517	Gasket - Tachometer Drive Housing	1
15142	Gasket & Packing Assembly	1

SPARE PARTS LIST IN NUMERICAL ORDER

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY. PER ENGINE</u>
2x13	Screw - Hex Hd. 5/16-18 x 1, Timing Case To Crankcase (Eng. 23028 and up)	2
2x149	Screw - Hex Hd. 1/4-20 x 5/8, Pipes To Zone	8
2x150	Screw - Hex Hd. 1/4-20 x 3/4, Cover to Pump 4, Inlet Pipe To Cover 2, (Engine 23376 and up)	6
2x152	Screw - Hex Hd. 5/16-18 x 1-5/8, Relief Valve Hsg. To Crankcase (To Engine 23375 Incl.)	4
2x155	Screw - Hex Hd. 5/16-18 x 3/4, Relief Valve Hsg. To Crankcase (Eng. 23376 and up)	4
2x166	Screw - Hex Hd. 1/4-20 x 1/2	6
2x167	Screw - Hex Hd. 5/16-18 x 3/4	35
2x169	Screw - Hex Hd. 5/16-18 x 5/8	6
2x171	Screw - Hex Hd. 5/16-18 x 1-1/8	7
2x183	Screw - Hex Hd. 5/16-18 x 7/8	23
2x184	Screw - Hex Hd. 5/16-18 x 2, Timing Case To Crankcase	2
2x187	Screw - Hex Hd. 5/16-18 x 1-7/8, Rocker Supports	24
2x188	Screw - Hex Hd. 3/8-16 x 1-1/8, Eng. Mtg. Nose Brkt.	2
2x196	Screw - Hex Hd. 7/16-14 x 1-5/8, Eng. Mtg. Bracket	4
2x197	Screw - Hex Hd. 3/8-16 x 1-5/8, Engine Mtg. Bracket	2
2x198	Screw - Hex Hd. 3/8-16 x 3-1/16, Fuel Pump To Prop. Shaft Housing	4
2x1103	Screw - Hex Hd. 5/16-18 x 2-1/8, Rocker Supports	24
2x1105	Screw - Hex Hd. 3/8-16 x 1-3/8, Starter To Crankcase	4
2x219	Screw - Hex Hd. 5/16-24 x 1-1/4, Gen. To Hinge Bracket	2
2x222	Screw - Hex Hd. 1/4-28 x 1-9/32, Pipes To Manifold	12
2x223	Screw - Hex Hd. 5/16-24 x 1	13
2x234	Screw - Hex Hd. 5/16-24 x 1-9/16, Top Rail	10
2x235	Screw - Hex Hd. 5/16-24 x 1-11/16, (Eng. 23001 to 23007 Incl.)	4
2x238	Screw - Hex Hd. 5/16-24 x 2-1/4, Top Rail & Gen. Link Bracket (Engine 23008 and up)	1
2x315	Screw - Dr. Hex Hd. 1/4-20 x 3/4, Cover To Pump Body (To Engine 23375 Incl.)	4
2x329	Screw - Dr. Hex Hd. 3/8-16 x 1-3/8, Starter To Crankcase (Engine 23001 To 23007 Incl.)	4
2x333	Screw - Dr. Hex Hd. 5/16-18 x 1-1/8, Oil Pump To C'case	3
3x19	Nut - Hex Jam 1/4-20, Cross Shaft Set Screw	1
3x210	Nut - Hex Jam 3/8-24, Adj. Screw (Eng. 23276 and up)	12
3x214	Nut - Hex jam 5/16-24, Adj. Screw (Eng. 23001 to 23275 Incl.)	12
3x32	Nut - Hex 10-32, Inlet Pipe Clamp To Bracket	1
3x84	Nut - Castle 5/16-24, Crankcase Lower Bolt 4, Propeller Shaft To Crankcase 8	12
3x86	Nut - Castle #10-32, Brkt. Clamp Screw (Eng. 23376 & up)	1

SPARE PARTS LIST IN NUMERICAL ORDER

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY. PER ENGINE</u>
3x93	Nut - Hex 5/16-24, Rocker Support (Eng. 23001 to 23275 Incl.)	24
3x94	Nut - Hex 3/8-24, Propeller Control Cylinder Studs	2
4x115	Washer - #10, Spring Lock, Nose Plate Dowel Screw	4
5x16	Washer - Plain 5/16, Gen. Adj. Link 2, Oil Pan To Timing Gear Case 14	24
5x19	Washer - Plain 5/16, Magneto To Propeller Housing 4, Generator To Adjusting Link 1	5
5x21	Washer - Plain 1/4, Pipes To Man. 16, Cover To Pump Body 4 (To Engine 23375 Incl.)	20
5x22	Washer - Plain 5/16	90
5x23	Washer - Plain 3/8, Nose Plate To Prop. Shaft Hsg.	6
5x25	Washer - Plain #10	5
6x11	Key - Woodruff 1/4 x 7/8, Crankshaft Gear 2, Hub To Shaft 2	4
6x13	Key - Woodruff #9, Timing Gear	1
6x16	Key - Woodruff #5, Accessory Drive Shaft To Camshaft	1
6x114	Key - Woodruff #212, Oil Pump Gear To Shaft	2
6x116	Key - Woodruff #2, Magneto Drive Gear To Shaft 1, Magneto Drive Coupling To Shaft 2	3
7x15	Plug - Iron Dr. Shank Pipe, Oil Drain	2
7x32	Plug - 1/4 Iron Slotted Headless Pipe	1
7x33	Plug - 3/8 Iron Slotted Headless Pipe	5
7x35	Plug - 3/8 Iron Slotted Headless Pipe, Crankcase Face	1
7x42	Plug - 1/8 Alum. Hex Socket Pipe, Nose Bearing	1
7x45	Plug - 3/8 Alum. Hex Socket Pipe, Nose Face	1
8x17	Pin - Cotter 3/32 x 1/2, Breather Tube To Prop. Housing	1
8x112	Pin - Cotter 3/32 x 3/4, Connecting Rod Bolts	12
8x114	Pin - Cotter 1/16 x 1/2, Clamp Screw (Eng. 23376 and up)	1
8x116	Pin - Cotter 1/8 x 1, Oil Float	1
8x118	Pin - Cotter 1/16 x 5/8, Lower Crankcase Bolts 4, Propeller Shaft Bolts 8	12
12x28	Screw - Fill. Hd. 1/4-28 x 3/8, Valve Cover	36
12x216	Screw - Dr. Fill. Hd. 5/16-18 x 5/8	2
12x35	Screw - Flat Hd. #6-32 x 5/16, Sheave To Hub (To Engine 23050 Incl.)	4
12x42	Screw - Fill. Hd. #10-32 x 5/8, Baffle To Prop. Shaft Hsg.	4
12x47	Screw - Dr. Fill. Hd. 10-32 x 1/2	1
12x45	Screw - Fill. Hd. #10-32 x 1/2 (For Clip)	4

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<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY. PER ENGINE</u>
14x523	Wire Assembly - High Tension 22", #6 Exhaust, #5 Inlet	2
14x524	Wire Assembly - High Tension 29", #4 Exhaust	1
14x525	Wire Assembly - High Tension 31", #3 Inlet	1
14x526	Wire Assembly - High Tension 35", #2 Exhaust	1
14x527	Wire Assembly - High Tension 39", #1 & #6 Inlet, #5 Exhaust	3
14x528	Wire Assembly - High Tension 47", #3 Exhaust, #4 Inlet	2
14x529	Wire Assembly - High Tension 53", #2 Inlet	1
14x530	Wire Assembly - High Tension 55", #1 Exhaust	1
17x23	Nipple - Pipe Thread 1/8	2
18x114	Dowel - 1/4 x 1-1/4, Accessory Shaft To Camshaft	1
19x14	Washer - Shakeproof Lock 1/4	46
19x17	Washer - Shakeproof Lock 5/16	60
19x113	Washer - Shakeproof Lock 3/8	8
19x32	Washer - Shakeproof Lock 1/4	2
23x11	Palnut - 3/8-24, Control Cylinder Studs	2
23x61	Nut - Elastic Stop 1/4-28, Pipes To Manifold	16
23x62	Nut - Elastic Stop 5/16-24	80
23x64	Nut - Elastic Stop 7/16-20, Crankshaft Bearing Stud 2, Cylinder & Main Bearing 48	50
23x65	Nut - Elastic Stop #10-32, Baffle To Prop. Shaft Housing	4
25x12	Screw - Parker-Kalon #4-3/16, Name Plate	4
25x24	Screw - Self Tapping #8(Bracket To Housing)	4
28x742	Seal - Oil, Nose Plate	1
28x83	Dowel - Oil Pump 1/4 x 3/4	1
28x817	Dowel - Thrust Washer 5/32 x 5/16	8
28x832	Dowel - Cover To Body 1/8 x 3/8 (Eng. 23376 and up)	2
28x848	Dowel - Mtg. Brkt. 2, Prop. Shaft Hsg. 2, 5/16 x 7/8	4
32x14	Wire - .041 Steel Lacing	?
5512	Gasket - Magneto	2
5573	Tube - Breather, Rigid	1
7415	Washer - Oil Level Gauge	1
10091	Gasket - Oil Pump Pipe (Engine 23376 and up)	1
10239	Plug - Oil Drain	1
10508	Cap - Oil Filler	1
10672	Gear - Oil Pump Drive	1
10997	Spring - Oil Pump Relief Valve (To Eng. 23375 Incl.)	1
11047	Magneto - Eismann LA-6, Even Side	1
11073	Terminal - High Tension Wire, Magneto End	12
11204	Spacer - Nose Plate Stud	6

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<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY. PER ENGINE</u>
12201	Nut - Connecting Rod Bolt	12
12433	Connector - Oil, Prop. Shaft Hsg. And Oil Pump	2
12686	Elbow - Fuel Pump Inlet	2
12707	Gasket - Oil Temperature Hole Plug	1
13432	Washer - Fan Bolt 1/16	16
13538	Dowel - Crankcase, Upper	2
13539	Dowel - Crankshaft Brg. Stud 8, Eng. Mtg. Brkt. 2	10
13541	Washer - Valve Spring Bottom, 1/64 Shim	As Req.
13542	Washer - Valve Spring Bottom, 1/32 Shim	As Req.
13547	Spring - Inner Valve	12
13548	Spring - Outer Valve	12
13563	Washer - Valve Spring, Upper	12
13579	Circllet - Valve Lifter Rod Guide	12
13605	Bolt - Crankcase Lower	4
13607	Washer - Valve Rocker Support Lock, Center	6
13608	Washer - Valve Rocker Support Lock, Outer	12
13625	Bushing - Connecting Rod, Upper	6
13641	Packing - Valve Lifter Rod Tube	As Req.
13800	Bolt - Fan 1-7/8"	As Req.
13801	Bolt - Fan 2", For Balancing	As Req.
13802	Bolt - Fan 2-1/8", For Balancing	As Req.
13803	Washer - Fan Bolt, Balancing .025	As Req.
13805	Washer - Fan Bolt, 1/8" Thick	As Req.
13976	Bushing - 3/8 x 1/4 Reducer, Fuel Pump AN-912-2D	2
13941	Clamp - Drain Hose	2
14039	Seal - Oil Cooler	2
14122	Rocker Assembly - Inlet Valve(Eng. 23001 to 23275 Incl.)	6
14187	Valve - Exhaust, .4350 Stem Dia. Between Valve Hd. And Locking Groove (Eng. 23001 to 23057 Incl.)	6
14203	Support - Valve Rocker, Outer)Engine 23001 to	12
14209	Screw - Valve Rocker Adjusting)23275 Incl.	12
14231	Manifold - Inlet	2
14248	Screw - Cylinder Liner Lock	24
14450	Piston - 7:1 C.R.	6
14462	Ring - Piston, 2nd Groove	6
14463	Ring - Piston, 3rd Groove	6
14468	Pan - Oil	1
14471	Pin - Piston	6
14472	Body - Oil Pump (To Engine 23375 Incl.)	1
14475	Ring - Piston, Top Groove	6
14487	Bolt - Propeller Shaft	8
14494	Plug - Piston Pin	12
14504	Spacer - Fan Bolt	8
14505	Bushing - Fan Bolt	16
14510	Gear - Magneto Drive	1

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<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY. PER ENGINE</u>
14511	Gear - Magneto Drive Shaft	1
14512	Coupling - Magneto Drive	2
14515	Gear - Tachometer Drive Bevel	1
14516	Housing - Tachometer Drive	1
14517	Gasket - Tachometer Drive Housing	1
14518	Connector - Tachometer Drive	1
14519	Bracket - Engine Mounting, Propeller Shaft Housing	1
14526	Zone - Distributing	2
14527	Pipe - Distributing Zone	2
14535	Gauge Assembly - Oil Level)Engine	1
14540	Motor - Starting (Delco))23001	1
14547	Housing - Starter Drive)to	1
14601	Bolt - Starter Gear Hub To Crankshaft 6,)23007 Starting Motor To Bracket 4)Incl.	10
14606	Washer - Propeller Housing Cross Shaft Thrust	1
14609	Gear - Camshaft (Engine 23109 and up)	1
14620	Washer - Starter Gear Hub Lock	1
14621	Bracket - Engine Mounting, Fan End, Odd Side	1
14622	Bracket - Engine Mounting, Fan End, Even Side	1
14625	Rod Assy. - Valve Lifter, Used With 14818 Camshaft & Forged Valve Rockers (To Engine 23108 Incl.)	12
14627	Packing - Inlet Manifold	6
14628	Flange - Inlet Manifold	6
14641	Screw - Propeller Housing Cross Shaft Set	1
14650	Rod Assy. - Valve Lifter, Used With 14943 Camshaft & Stamped Valve Rockers (Engine 23276 and up)	12
14652	Valve - Inlet	6
14653	Valve - Exhaust (Engine 23058 and up)	6
14660	Magneto - Eismann LA-6, Odd Side	1
14667	Key - Valve Spring Washer	24
14668	Rocker Assy. - Exhaust Valve (Engine 23276 and up)	6
14670	Case - Timing Gear	1
14672	Support - valve Rocker, Center(Eng. 23001 to 23275 Incl.)	6
14673	Support - Valve Rocker, Outer (Eng. 23276 and up)	12
14686	Gear - Crankshaft	1
14687	Hose - Equalizer Pipe	1
14688	Gasket - Oil Filler Cap	1
14689	Bracket - Starter Support (Eng. 23001 to 23007 Incl.)	1
14691	Tube - Oil Level)Engine 23008	1
14692	Gauge - Oil Level)and up	1
14700	Gasket - Propeller Shaft Housing	1
14701	Gasket - Fuel Pump	2
14702	Gasket - Carburetor	1
14705	Gear - Tachometer Drive Bevel	1
14707	Gasket - Nose Plate (To Engine 23280 Incl.)	1
14708	Seal - Timing Case Crankshaft Oil	1

SPARE PARTS LIST IN NUMERICAL ORDER

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY. PER ENGINE</u>
14712	Bracket - Oil Inlet Pipe	1
14718	Gasket - Inlet Manifold Pipe	6
14719	Plug - Crankshaft	1
14724	Gasket - Valve Cover	6
14730	Bolt - Connecting Rod	12
14733	Housing - Relief Valve (To Engine 23375 Incl.)	1
14734	Gasket - Relief Valve Housing	1
14738	Carburetor - Marvel #10-3007	1
14740	Nut - Exhaust Stud	12
14787	Cover - Valve	6
14797	Bushing - Crankshaft	8
14798	Shaft - Propeller	1
14799	Rocker Assy - Exhaust Valve (Eng. 23001 to 23275 Incl.)	6
14803	Rocker Assy. - Inlet Valve (Eng. 23276 and up)	6
14804	Spring - Oil Cooler Relief Valve	1
14805	Bushing - Connecting Rod, Lower	12
14813	Hub - Starter Gear	1
14815	Gear Assembly - Starter	1
14819	Liner - Cylinder	6
14821	Support - Valve Rocker, Center (Engine 23276 and up)	6
14824	Clamp - Equalizer Pipe Hose	2
14830	Baffle - Propeller Shaft Housing	1
14833	Slinger - Crankshaft Oil	1
14834	Drive Assembly - Tachometer	1
14835	Adapter - Thermometer Gauge	1
14839	Bushing - Propeller Housing Cross Shaft	1
14842	Generator - E.A.L. GGS-4801A EO-8686	1
14847	Spacer - Magneto Coupling, as listed below:	
	<u>No.</u> <u>Width</u>	
	14847-I .1150	
	14847-II .1250	
	14847-III .1350	
	14847-IV .1450	
	14847-V .1550	
	14847-VI .1650	
	14847-VII .1750	
14848	Tube - Exhaust Port	6
14857	Drive - Starter Bendix (Eng. 23008 to 23077 Incl.)	1
14859	Bushing - Starter Drive Housing	1
14860	Shaft - Starter Drive (Eng. 23008 to 23077 Incl.)	1
14867	Bracket - Starter Mounting (Eng. 23001 to 23007 Incl.)	1
14868	Regulator - Voltage E.A.L. VRX 4401A EO-8722	1

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<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY. PER ENGINE</u>
14869	Housing - Starter Drive (Eng. 23001 to 23007 Incl.)	1
14872	Washer - Lock, Valve Rocker Support, Outer	12
14879	Screw - Fuel Pump Drain (Eng. 23001 to 23050 Incl.)	4
14883	Belt - Generator 36"	1
14884	Link - Generator Adjusting	1
14899	Clamp - High tension Wire (Six)	4
14900	Pointer - Timing Mark (Eng. 23001 to 23007 Incl.)	1
14901	Pointer - Timing Mark (Eng. 23008 and up)	1
14923	Rod Assembly - Connecting	6
14924	Gear - Camshaft (Eng. 23001 to 23108 Incl.)	1
14927	Spacer - Timing Gear Case (Eng. 23001 to 23007 Incl.)	1
14931	Bracket - Generator Hinge	2
14935	Sheave - Generator Drive	1
14938	Pin Assembly - Valve Rocker	12
14939	Bracket - Generator Link Mounting	1
14940	Housing Assembly - Propeller Shaft	1
14942	Fan And Starter Gear Assembly	1
14943	Camshaft Assembly	1
14946	Clip - Oil Inlet Float	1
14949	Tube Assembly - Valve Lifter Rod	12
15025	Gear - Oil Pump Shaft	1
15027	Gasket - Propeller Shaft Housing Connector	1
15046	Switch - Solenoid Starting, E.A.L. SST-4001A, Used With 14916 Starter Only	1
15054	Washer - Crankshaft Thrust	4
15063	Pipe Assembly - Manifold Equalizer, Odd Side	1
15064	Pipe Assembly - Manifold Equalizer, Even Side	1
15070	Plate - Oil Pan Flange	1
15091	Shaft - Oil Pump Drive)	1
15092	Shaft - Oil Pump Stationary)	1
15093	Gear - Oil Pump Drive) Engine	1
15094	Gear - Oil Pump Driven) No.	2
15098	Cover Assembly - Oil Pump) 23376	1
15100	Pump Assembly - Oil) and	1
15104	Plunger - Oil Pump Relief Valve) up	1
15105	Spring - Oil Pump Relief Valve)	1
15106	Nut - Oil Pump Relief Valve Spring)	1
15107	Housing - Relief Valve, By-Pass Plate)	1
15109	Pipe assembly - Oil Pump Inlet)	1
15111	Crankcase Assembly	1
15112	Crankshaft Assembly	1
15114	Washer - Relief Valve Nut Lock (Eng. 23376 and up)	1
15114	Washer - Temperature Plug Hole (Eng. 23437 and up)	1
15118	Washer - Valve Spring, Bottom, Cupped	24
15122	Plate - Oil Pump Shaft (Eng. 23376 and up)	1

SPARE PARTS LIST IN NUMERICAL ORDER

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY. PER ENGINE</u>
15123	Spring - Nose Plate Dowel	4
15124	Screw - Nose Plate Dowel Spring	4
15125	Bearing - Propeller Shaft	1
15126	Sleeve - Propeller Shaft Oil Seal	1
15128	Dowel - Nose Plate, Threaded	4
15133	Plate assembly - Propeller Shaft Nose	1
15142	Gasket And Packing Assembly	1
15150	Plate - Timing Gear Case Flange	1
15152	Body - Oil Pump (Engine 23376 and up)	1
15153	Packing - Nose Plate Ring	1
15157	Pin - Cylinder Liner Lock	12
15159	Motor - Starting E.A.L. MCJ-4002	1
15160	Liner - Cylinder	6
*15163	Packing - Nose Plate Dowel Ring & Main Brg. Stud	12
15166	Rod Assy. - Valve Lifter, Used With 14943 Camshaft & Forged Rockers (Engine 23109 to 23275 Incl.)	12
15169	Washer - Lock, Oil Inlet Pipe To Cover	2
15170	Washer - Lock, Oil Pump To Crankcase	2
15171	Washer - Lock, Brkt. To C'case 2, Generator To Link & Hinge Bracket To Crankcase 3	5
15172	Screw - Oil Inlet Pipe Clamp	1
15175	Washer - Lock, Engine Mounting Bracket To Crankcase	4
15176	Washer - Lock, Engine Mounting Bracket To Crankcase	4
15185	Spacer - Starting Motor Insulating (Short)	1
15186	Spacer - Starting Motor Insulating (Long)	1
15196	Gasket - Timing Gear Case	1
15197	Gasket - Oil Pan	1
15198	Slinger - Propeller Shaft Oil	1
15199	Cylinder Assembly (Engine 23001 to 23057 Incl.)	6
15202	Elbow - Starting Motor Blast	1
15209	Cylinder Assembly	6
15218	Insert - Inlet Valve Seat	6
15219	Insert - Exhaust Valve Seat	6
15234	Clamp - Oil Pipe Inlet	1
15238	Cooler Assembly - Oil	1
15278	Lifter - Valve	12
15282	Screen - Oil Inlet	1
15286	Spacer - Tachometer Drive Gear	1
15287	Gear - Tachometer Drive Gear	1
15288	Screw - Accessory Drive Shaft Set	1
15289	Shaft - Accessory Drive	1
15294	Camshaft Assembly	1
15296	Washer - Tachometer Drive Gear	1
15335	Valve - Hydraulic Lifter (For No. 15143 Lifter)	12
15336	Ring - Hydraulic Lifter Valve Retaining (For No. 15143 Lifter)	12

*Use Only With Crankcases Properly Countersunk to Receive This Ring.

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<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY. PER ENGINE</u>
15438	Fuel Pump - (AC) Even Side	1
15439	Fuel Pump - (AC) Odd Side	1
15440	Fuel Pump Drain Hose	2
15480	Clip - Fuel Pump Drain Hose	2
15481	Bracket - Fuel Pump Drain Hose	2
17024	Switch Assembly - Solenoid	1
17475	Insert - Spark Plug Helicoil	12
17590	Gear - Oil Pump Driven (To Eng. 23375 Incl.)	1
17654	Screw - Valve Rocker Adj. (Eng. 23276 and up)	12
17729	Ring - Cylinder Seal, Use With Straight Liner	6
17731	Nut - Oil Pump Relief Valve Spring (To Eng. 23375 Incl.)	1
17734	Shaft - Oil Pump Drive (To Eng. 23375 Incl.)	1
17735	Shaft - Oil Pump Stationary (To Eng. 23375 Incl.)	1
17745	Sleeve - Tachometer Drive	1
17778	Bolt - Starter Gear To Hub	8
17925	Washer - Relief Valve Nut, Oil Cooler 1, Oil Pump 1, (To Engine 233375 Incl.)	2
17932	Ball - Oil Cooler Relief Valve	1
17953	Plug - Spark, E.A.L. A-4	12
18048	Ring - Cylinder Seal, Use With Shouldered Liner	6
18191	Terminal - High Tension Wire	12
18277	Washer - Lock, Oil Pump Cover (Eng. 23376 and up)	2
18536	Plug - Crankcase Temperature Hole (Eng. 23437 and up)	1
18568	Packing - Tachometer Drive	1
18976	Plunger - Oil Pump Relief Valve (To Eng. 23375 Incl.)	1
19022	Washer - Cylinder & Main Brg. 48, Crankcase Brg. Stud 2	50
19122	Washer - Cylinder Hold down & Main Bearing 48, Crankcase Bearing Stud 2	50
19313	Absorber - Magneto Drive Shock	2

SPARE PARTS LIST
OVERSIZE & UNDERSIZE

<u>STANDARD</u> <u>PART NO.</u>	<u>O/S - U/S</u> <u>PART NO.</u>	<u>DESCRIPTION</u>	<u>O/S</u>	<u>U/S</u>
10191		Stud-Exhaust Tube		
	10191+.003	Stud-Exhaust Tube	+.003	
	10191+.006	Stud-Exhaust Tube	+.006	
	10191+.009	Stud-Exhaust Tube	+.009	
11139		Stud-Mag. 4, Carb. 4		
	11139+.003	Stud-Mag. 4, Carb. 4	+.003	
	11139+.006	Stud-Mag. 4, Carb. 4	+.006	
	11139+.009	Stud-Mag. 4, Carb. 4	+.009	
13392		Stud-Crankshaft Bearing		
	13392+.003	Stud-Crankshaft Bearing	+.003	
	13392+.006	Stud-Crankshaft Bearing	+.006	
	13392+.009	Stud-Crankshaft Bearing	+.009	
13410		Stud-Inlet Manifold		
	13410+.003	Stud-Inlet Manifold	+.003	
	13410+.006	Stud-Inlet Manifold	+.006	
	13410+.009	Stud-Inlet Manifold	+.009	
13525		Stud-Prop. Shaft Housing		
	13525+.003	Stud-Prop. Shaft Housing	+.003	
	13525+.006	Stud-Prop. Shaft Housing	+.006	
	13525+.009	Stud-Prop. Shaft Housing	+.009	
13621	13017+.001	Guide-Inlet Valve	+.001	
13621	13018+.002	Guide-Inlet Valve	+.002	
13621	13019+.005	Guide-Inlet Valve	+.005	
13622	13020+.001	Guide-Exhaust Valve	+.001	
13622	13021+.002	Guide-Exhaust Valve	+.002	
13622	13022+.005	Guide-Exhaust Valve	+.005	
14075		Stud-Prop. Inlet Manifold		
	14075+.003	Stud-Prop. Inlet Manifold	+.003	
	14075+.006	Stud-Prop. Inlet Manifold	+.006	
	14075+.009	Stud-Prop. Inlet Manifold	+.009	
14471	15044+.001	Pin - Piston	+.001	
14471	15045+.002	Pin - Piston	+.002	
14476		Stud-Crankshaft Bearing		
	14476+.003	Stud-Crankshaft Bearing	+.003	
	14476+.006	Stud-Crankshaft Bearing	+.006	
	14476+.009	Stud-Crankshaft Bearing	+.009	

**SPARE PARTS LIST
OVERSIZE & UNDERSIZE**

<u>STANDARD PART NO.</u>	<u>O/S - U/S PART NO.</u>	<u>DESCRIPTION</u>	<u>O/S</u>	<u>U/S</u>
14489		Stud-Cylinder Hold-down		
	14489+.003	Stud-Cylinder Hold-down	+.003	
	14489+.006	Stud-Cylinder Hold-down	+.006	
	14489+.009	Stud-Cylinder Hold-down	+.009	
14618		Stud-Prop. Shaft Housing		
	14618+.003	Stud-Prop. Shaft Housing	+.003	
	14618+.006	Stud-Prop. Shaft Housing	+.006	
	14618+.009	Stud-Prop. Shaft Housing	+.009	
14706		Stud-Nose Plate		
	14706+.003	Stud-Nose Plate	+.003	
	14706+.006	Stud-Nose Plate	+.006	
	14706+.009	Stud-Nose Plate	+.009	
14797	15078-.010	Bushing-Crankshaft		-.010
	15079-.020	Bushing-Crankshaft		-.020
14805	15042-.010	Bushing-Connecting Rod, Lower		-.010
	15043-.020	Bushing-Connecting Rod, Lower		-.020
15131		Stud-Prop. Control Cylinder		
	15131+.003	Stud-Prop. Control Cylinder	+.003	
	15131+.006	Stud-Prop. Control Cylinder	+.006	
	15131+.009	Stud-Prop. Control Cylinder	+.009	
15208	15271+.001	Guide-Valve) Engine	+.001	
	15272+.002	Guide-Valve) 23058	+.002	
	15273+.005	Guide-Valve) and up	+.005	
15218	15251+.001	Insert-Inlet Valve Seat	+.001	
15218	15252+.001	Insert-Inlet Valve Seat	+.002	
15218	15205+.001	Insert-Inlet Valve Seat	+.005	
15218	15253+.001	Insert-Inlet Valve Seat	+.010	
15219	15254+.001	Insert-Exhaust Valve Seat	+.001	
15219	15255+.002	Insert-Exhaust Valve Seat	+.002	
15219	15206+.005	Insert-Exhaust Valve Seat	+.005	
15219	15256+.010	Insert-Exhaust Valve Seat	+.010	
17667		Stud-Valve Rocker Support		
	17667+.003	Stud-Valve Rocker Support	+.003	
	17667+.006	Stud-Valve Rocker Support	+.006	
	17667+.009	Stud-Valve Rocker Support	+.009	
18171		Stud-Timing Gear case		
	18171+.003	Stud-Timing Gear case	+.003	
	18171+.006	Stud-Timing Gear case	+.006	
	18171+.009	Stud-Timing Gear case	+.009	

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Magneto-Eismann Model LA-6
Aircooled Motors Part #11047 and #14660

Component Parts List

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>PRICE</u>
H3-507	Bearing - Ball, Magneto	\$2.15*
H6-767	Washer - Lock, Magneto	.05*
H6-980	Washer - Special	.05*
H6-981	Washer - Special	.05*
H6-982	Washer - Special	.05*
H9-692	Washer - Special	.05*
H13-847	Washer - Lock	.05*
H14-199	Washer - Lock	.05*
H14-718	Screw-Magneto	.05*
H14-784	Washer-Special	.05*
H14-785	Washer-Special	.05*
H17-183	Screw	.05*
H18-613	Washer-Special	.05*
H20-558	Screw	.05*
H20-685	Cover-Ventilation	.10*
H21-032	Screw-#10-32, Magneto	.05*
H21-163	Screw-#10-32	.05*
H21-487	Washer-Lock	.05*
H21-492	Screw-Magneto	.05*
H21-528	Screw-#10-32	.05*
H22-577	Pin-Dowel	.10*
H22-615	Washer-Lock	.05*
H22-654	Washer	.05*
H22-871	Washer-Shim .016"	.10*
H22-936	Nut-Terminal, Outer	.15*
H22-981	Seal-Oil	.85*
H23-659	Screw	.15*
H23-690	Cam-Two Lobe	2.00*
H23-695	Nut-Drive Shaft	.55*
H23-696	Nut-Hex	.10*
H23-699	Spacer-Condenser Screw	.10*
H23-724	Key-Woodruff	.10*
H23-727	Bearing-Distributor	.60*
H23-755	Standard Impulse Starter	6.00*
H23-810	Pin-Catch, Magneto	.30*
H23-816	Spring-Impulse Starter	.60*
H23-833	Washer-Thrust	.15*
H23-834	Bushing-Driving Gear	.60*
H24-105	Rotor Assembly-Distributor	4.00*
H24-113	Gear-Pinion, Magneto	1.20*
H24-118	Slinger-Oil, Magnet Rotor Shaft	.30*
H24-227	Washer-Lock	.05*

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H24-228	Pin-Cotter, Magneto	.05*
H24-292	Plate-Ventilation	.15*
H24-924	Condenser Assembly	1.80*
H24-986	Washer-Plain	.05*
H26-077	Plate Assembly-Cable, Magneto	1.50*
H26-422	Cover Assembly-Distributor	2.25*
H26-434	Screw	.05*
H26-438	Adapter Com. Assembly	13.80*
H26-453	End Plate With Bearing	7.80*
H26-454	End Plate Less Distributor Rotor	20.40*
H26-458	End Plate Assembly	24.00*
H26-748	Cable Terminal Tube	.15*
H26-795	Impulse Starter	7.50*
H26-796	Cup-Drive	3.90*
H26-825	Coil	8.75*
H26-835	Clamp-Coil	.25*
H26-845	Drive Screw-Name Plate	.05*
H26-855	Contact Assembly-Plate Distributor	.15*
H26-923	Ring-Snap, Magneto	.05*
H26-934	Stud-Eccentric, Magneto	.60*
H26-963	Gasket	.15*
H26-964	Gasket	.15*
H26-965	Gasket	.15*
H27-107	Name Plate	.30*
H27-125	Rotor Assembly With Ball Bearings	10.50*
H27-136	Brush Assembly-Carbon	.20*
H27-149	Breaker Assembly-Platinum	9.75*
H27-525	Terminal Assembly-Ground	1.90*
H27-530	Distributor Plate	6.50*
H27-140	Main Housing With Ball Bearing	12.00*
H27-585	Adapter-Ground Connection	.80*
H27-679	Terminal-Ground, Less Connector Adapter	1.10*
H27-871	Washer-Plain	.05*

MAGNETO #14660 DIFFERS FROM #11047 ONLY IN THE FOLLOWING PART:

H27-698	Impulse Starter	7.50*
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CARBURETOR - MARVEL-SCHEBLER MA-4-5

AIRCOOLED MOTORS, INC. PART NO. 14738

Component Parts List

<u>PART NO.</u>	<u>PART NAME</u>	<u>PRICE</u>	<u>QTY</u>
10-3037	Carburetor Body & Bowl Assembly	40.40*	1
12-809	Throttle Lever & Screw Assembly	1.60*	1
13-853	Throttle Shaft Assembly	3.25*	1
14-187	Fly-Throttle	.35*	1
15-126	Screw-#10-32 x 5/16 Hex Hd., Throttle Adj.	.25*	1
15-460	Screw-#8-32 x 3/8 Flat Fil. Hd., Idle Adj. Needle	.15*	3
15-493	Screw-#10-24 x 5/8 Flat Fil. Hd., Throttle Lever Clamp	.10*	1
15-A13	Screw-#8-32 Special, Mixture Control Lever	.15*	1
15-A14	Screw-#10-24 Hex Hd., Bowl Vent Strainer Housing Retaining Screw	.05*	2
15-A15	Screw-#10-32 Special Set, Pump Lever Lock	.25*	1
15-A16	Screw-Pump Idler Lever	.50*	1
15-A17	Screw-1/4-28 x 7/8, Special Channel Plug	.10*	6
15-A21	Screw-#4-40 x 1/4 Rd. Hd., Float Bracket	.05*	2
15-A22	Screw-#8-32, Special Channel Plug	.10*	1
15-A23	Screw-#8-32 x 3/8 French Hd., Throttle Fly	.05*	2
15-A27	Screw-Pump Discharge Check Valve Retaining	.20*	1
15-A28	Screw-#4 Drive	.05*	2
15-A48	Screw-1/4-20, Special Ratchet Plug	.05*	1
16-A16	Gasket-Bowl Vent Housing	.05*	1
16-A28	Gasket-Mixture Metering Valve Head	.05*	1
16-A30	Gasket-Nozzle	.05*	1
16-A31	Gasket-Throttle Body To Bowl	.15*	1
16-A32	Gasket-Float Valve Seat	.05*	1
16-A39	Gasket-Idle Adjusting Needle Retainer	.05*	1
16-A40	Gasket-Pump Idler Lever	.05*	1
16-A42	Gasket-Power Jet	.05*	1
16-A48	Gasket-Safety Washer, Fuel Inlet, Strainer	.10*	2
16-A56	Gasket-Air Metering Pin Jet Plug	.05*	1
16-625	Gasket Assortment	.60*	1
24-284	Spring-Pump Leather Expanding	.15*	1
24-351	Spring-Pump Follow-Up	.15*	1
24-480	Spring-Mixture Metering Valve Head	.10*	1
24-A30	Spring-Air Metering Pin Return	.10*	1
24-A33	Spring-Throttle Opening	.15*	1
24-A39	Spring-Throttle Adjusting Screw	.10*	1
29-113	Clip-Venturi Retainer	.10*	3
30-629	Float And Lever Assembly	3.15*	1
32-35	Shaft-Float Lever	.15*	1

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36-539	Pump-Inlet Check Valve Assembly	.95*	1
43-587	Idle adjusting Needle Assembly	1.80*	1
44-44	Packing-Throttle Shaft	.05*	2
46-496	Venturi-Main	2.50*	1
49-212	Jet-Power	.70*	1
55-255	Retainer-Throttle Shaft Packing	.15*	2
60-390	Bushing-Throttle Shaft	.55*	2
62-56	Pin-Spring Seat Locating	.05*	1
66-14	Lock-Wire, Drain Plug	.05*	1
66-18	Lock-Wire, Mixture Control Valve Lever	.05*	1
66-20	Lock-Wire, Air Metering Pin Jet Plug 1, Pressure Tack-off 2	.05*	3
78-1	Washer-Pump Idle Lever	.05*	1
78-5	Washer-#10 Lock, Bowl Vent Strainer Screen Hsg.	.05*	2
78-9	Washer-1/4" Lock, Cover Screw	.05*	6
78-121	Washer-Special, Bowl Vent Strainer Screen Hsg.	.05*	2
78-184	Washer-Mixture Metering Valve Head	.05*	2
78-356	Washer- Mixture Metering Valve Head	.05*	1
78-357	Washer-Special Lock, Mixture Control Lever	.05*	1
78-371	Washer- Special Lock, Bowl Cover	.05*	6
78-374	Washer- Special Lock, Idle Needle Plate	.10*	3
78-375	Washer- Special Lock, Pump Idler Lever Screw	.05*	1
82-9	Cotter-Bowl Cover Screw	.05*	6
82-11	Cotter-Float Shaft	.05*	4
95-63	Screen-Bowl Vent Strainer	.15*	1
95-506	Fuel-Inlet Strainer Screen Assembly	1.05*	1
110-173	Flange-Bowl Vent Strainer Screen Housing	.20*	1
136-62	Bracket-Float	.15*	1
155-560	Pump Lever Assembly	1.60*	1
221-79	Housing-Bowl Vent Strainer Screen	.20*	1
227-1081	Throttle Body & Bowl Cover Assembly	54.25	1
227-1082	Throttle Body & Bowl Cover Assy. - Complete		
229-548	Idle Tube Assembly	.65*	1
233-556	Float-Valve Seat & Gasket Assembly	1.65*	1
242-505	Mixture Metering Valve Assembly	1.05*	1