

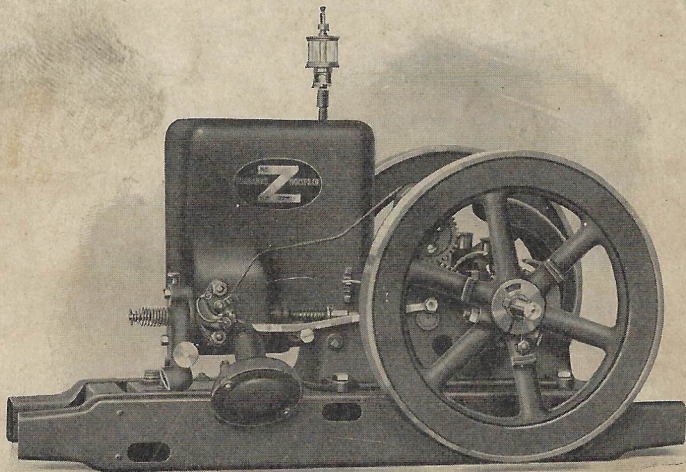
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*See letter Feb 14-1928*

VOL. II.

## REPAIR PRICE LIST No. 9625B

# Fairbanks-Morse

1½, 3 and 6 H. P. Type "Z" Engine  
WITH SUMTER ROTARY MAGNETO



(3142G)

1½ H. P. "Z" Engine with Sumter Gear Driven Magneto

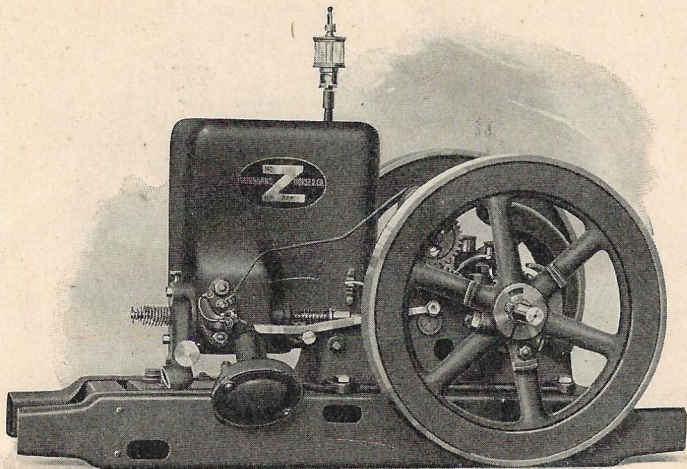
## FAIRBANKS, MORSE & CO.

(INCORPORATED)

CHICAGO

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**FAIRBANKS-MORSE**  
 **$1\frac{1}{2}$  H. P. "Z" ENGINE WITH**  
**SUMTER GEAR DRIVEN MAGNETO**



(3142G)

This shows the  $1\frac{1}{2}$  H. P. Hit and Miss "Z" Engine with gear driven Sumter Magneto. (Built previous to engine Number 361679 except #345865.)

On this type of engine it will be noted that the rotary, or gear driven magneto, is located on a bracket cast on the engine base near the crankshaft.

Below will be found a brief description of the changes made, in this engine, affecting repairs.

Effective on engine #286859.

**Igniter**

A heavier type of igniter was adopted. On orders for igniter body or igniter complete for an engine previous to this number the new igniter 138A-C will be furnished. On orders for smaller parts of the old style igniter, parts will be furnished as shown in Group 138-C.

Effective on engine #267896.

**Igniter Trip  
Rod Blade**

An igniter trip rod with blade for adjustment was adopted. These will be furnished complete on all orders for the one piece rod. (See 143A-C).

Previous to engine #160361.

**Crankshaft**

The crank shaft was turned down on the end for the starter crank A14. These parts, crankshaft 25 and starter crank A14, will be furnished when ordered.

Effective on engine #261679.

**Governor  
Fulcrum Pin**

A governor fulcrum pin with a compression spring was adopted to replace the pin with washer and cotter. The new pin (33A), with spring (817A), will be furnished to replace old pin (254), with washer (251).

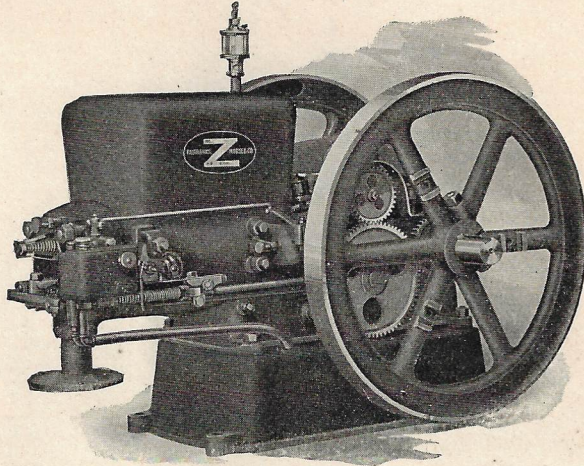
Effective on engine #176709.

**Governor Weight  
Spring**

A governor weight spring, #752, having only one hook was adopted; this required spring nut (262), new adjusting screw (256A), and adjusting screw eye screw (255A). These replaced the governor weight spring, #634, which had two hook using a governor spring and adjusting screw (256) and eye screw (255). Parts 634 and 256 will be furnished as ordered, but 255 will be replaced by 255A on repair orders. See cut, page 31.

# FAIRBANKS-MORSE

## 3 AND 6 H. P. "Z" ENGINES WITH SUMTER GEAR DRIVEN MAGNETO



(3204G)

This shows the 3 and 6 H. P. "Z" Engines with gear driven Sumter Magneto. Built previous to 3 H. P. engine #268918, and 6 H. P., #267230. On this type of engine it will be noted that the Rotary, or gear driven magneto is located on a bracket cast on the engine base near the crankshaft. Below will be found a brief description of the changes made in these engines affecting repairs.

**Cylinder Heads**

On 3 H. P. engine, #290867 and 6 H. P., #319858, with Sumter Oscillating Magneto, the cylinder head and pump lever (66), were changed to put the pump lever on the outside of the exhaust rod. This new head with new pump lever (66A) will be furnished with heads ordered for these engines.

**Reservoirs**

Effective on 3 H. P. engine #185864.  
Effective on 6 H. P. engine #185978.  
These reservoirs were changed to eliminate removable pump barrel No. 64. Effective on 3 H. P. engine #259198.  
Effective on 6 H. P. engine #259154.  
A further change was made to eliminate brass check ball seat #68. On orders for reservoirs or for #64 pump barrel for engines previous to these numbers, 4A-C reservoir with necessary extra piping will be sent. (See Group 4-C.)

**Subbase, Fuel Tanks and Fuel Piping**

Previous to 3 H. P. engine #185864.  
Previous to 6 H. P. engine #185978.  
These parts were arranged so that piping connected with the end of the fuel tank instead of the top.  
For subbase repairs, see repair #62.  
For fuel tank, see repair group #15.  
For fuel piping, see repair group #304.

**Silencer**

Previous to 3 H. P. engine #185864.  
Previous to 6 H. P. engine #185978.  
A three piece silencer was used. Separate parts for this silencer will be furnished (see Group 26-C), but when complete silencer is ordered silencer 26A will be sent.

**Butterfly Valve and Shaft**

Previous to 3 H. P. engine #288351.  
Previous to 6 H. P. engine #287103.  
The butterfly valve was soldered to small shaft, and two bushings were inserted in cylinder head. For repairs on butterfly valve or shaft, the later valve and shaft screwed together will be sent. Bushing 207, shaft lever 206, washer 201, will be furnished as ordered.

# REPAIR PRICE LIST

FOR

1½, 3 AND 6 H. P. "Z" ENGINES

WITH

## SUMTER GEAR DRIVEN MAGNETO

To avoid delay, give the complete description of the part or parts wanted as shown in the following example:

- |   |                     |
|---|---------------------|
| 1. Quantity of parts wanted, "one."       | Description of Part |
| 2. Repair number, "1."                    |                     |
| 3. Name of part, "cylinder."              |                     |
| 4. Size of engine, "1 1/2 H. P."          |                     |
| 5. Type of engine, "throttling governor." |                     |
| 6. Engine serial No., "576189."           |                     |

The repair order, in this case, should read: "One #1 cylinder for 1 1/2 H. P. throttling governor engine, serial number 576189." Repair Order

**IMPORTANT:** The most important items of the above information are the repair number and the engine serial number. The latter is stamped on the hopper of the engine. Engine Serial Number

### HOW TO USE THE REPAIR LIST AND THE REPAIR CHARTS.

The first column at the left of each page shows the repair numbers of all complete groups and all separate parts, arranged in numerical order. Numerical Arrangement

The repair number, when shown in bold-faced type and followed by a dash and the letter "C" (indicating complete), is a group number which covers all the items to the next horizontal line. Complete Group

The second column from the left contains the repair numbers of all of the parts included in each of these groups. "Group Part" Column

Parts, which are followed by the words "always with" are **not** furnished separately, but only with the parts included within the brackets. Bracketed Group

The number of parts used in each group is shown in the "Number Used" column. The **total** number of parts used is shown when the part is arranged in numerical order. "Number Used" Column

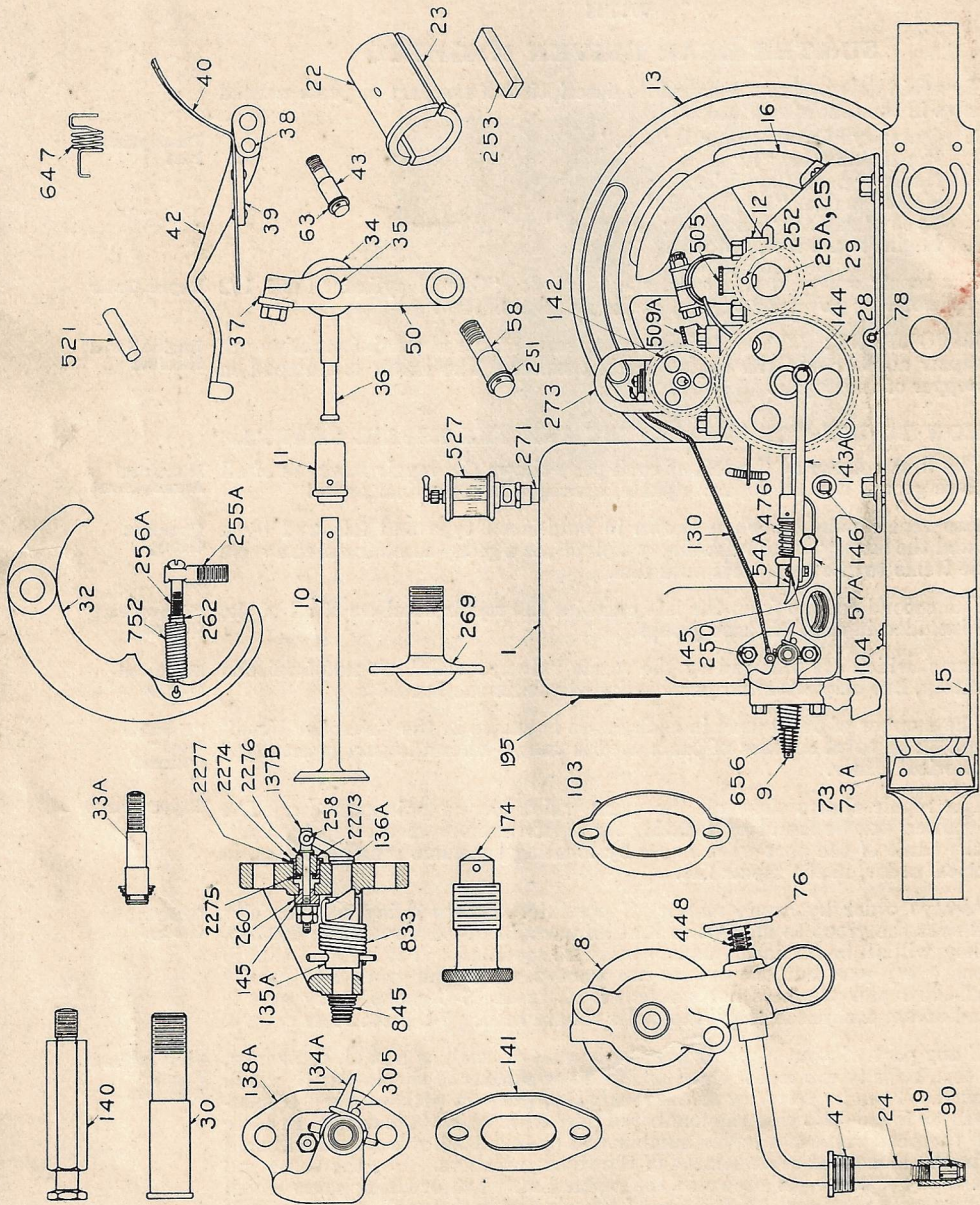
The repair charts show all the parts which have repair numbers. The part wanted can be found by locating its repair number on the repair chart, and the name of the part when found by locating the same repair number, in numerical order, in the repair list. Repair Charts

Always order by group number if possible. Before doing so, carefully check over the group to make sure that all parts included therein are wanted, for they will all be furnished unless otherwise specified. If it is found that in a group every part but one or two are wanted, order the group and specify "less" the repair numbers not wanted; i. e., in the 5-C group every part is wanted except the piston rings; the order should read: 5-C piston less rings 6. Ordering by Groups

If any part without a repair number is wanted, such as a stud, cap screw, bolt, etc., refer to the repair chart and find the number of the part with which it is used. Then by referring to the repair list, the part without a repair number will be found following the numbered part with which it is used. In some cases, the part without a repair number will be found following the numbered part in the numerical arrangement of the repair numbers. Use the name and the size of the parts, as shown in the repair list, when ordering parts which have no repair numbers. If the size of these parts is the same on all sizes of the product, only one dimension is shown following the part (in the "NAME OF PART" column) when arranged in numerical order. If the sizes of the parts without repair numbers are different, each dimension is listed in the same order as in the "Number Used" column. Parts without Repair Numbers

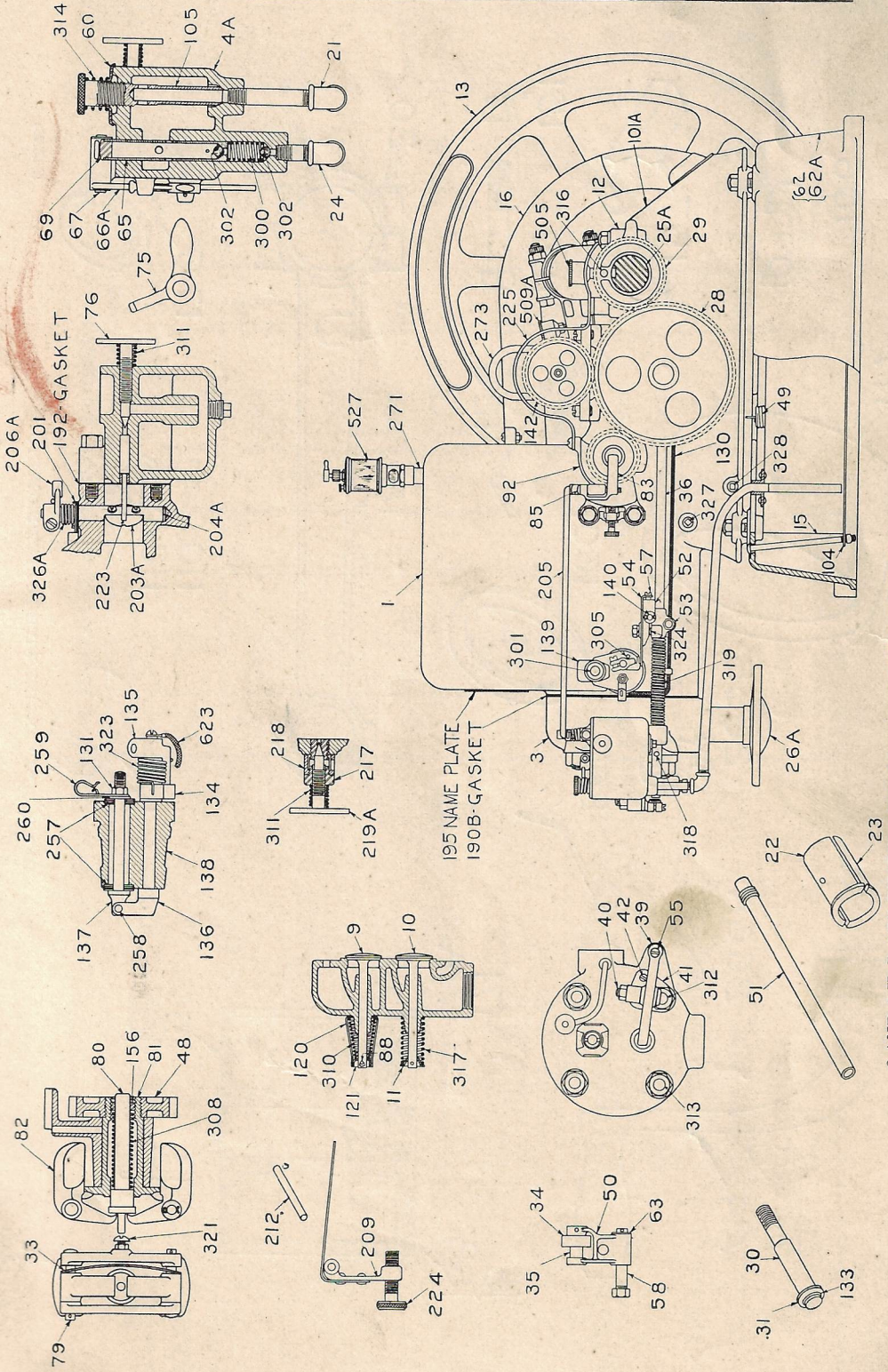
An asterisk (\*) preceding a repair number or group number indicates that the parts marked are included in the "Z" Engine Service Cabinet.

# Repair Price List—1½ H. P., 3 H. P., 6 H. P. "Z" Engines



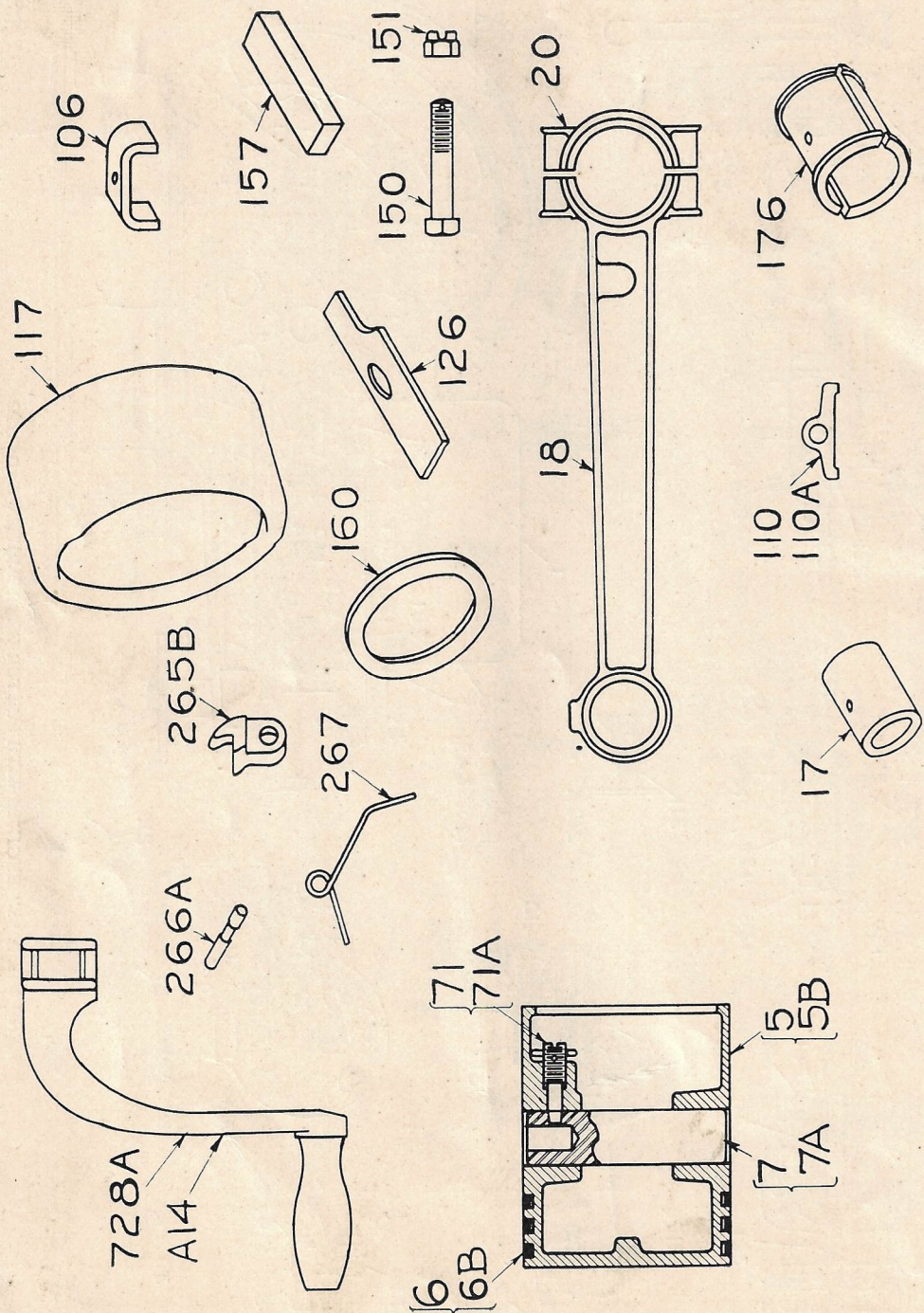
(50DJ)

1½ H. P. "Z" ENGINE WITH SUMPTER GEAR DRIVEN MAGNETO



3 AND 6 H. P. "Z" ENGINES WITH SUMTER GEAR DRIVEN MAGNETO

(50ZB6)



1½, 3 AND 6 H. P. "Z" ENGINE WITH SUMTER MAGNETO

(50ZB5)

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER GEAR DRIVEN MAGNETO.

Repair Nos.		Before Ordering Repair Parts Read the Instructions on Page 5			1½ H. P.		3 H. P.		6 H. P.							
Arranged Numerically	Group Parts	NAME OF PART	Used	Symbol or Size	Price, Each	Used	Symbol or Size	Price, Each	Used	Symbol or Size	Price, Each					
1-C	1	<b>1-C Cylinder and Base.</b>														
		Cylinder and Base.....	1	DJ1A	\$29.00	1	ZB1C	\$46.20	1	ZC1A	\$71.80					
		Main Bearing Caps.....	12	DJ12	}	1	ZB12	}	1	ZC12						
		Main Bearing Cap Screw.....	4	$\frac{1}{2}$ " x $1\frac{3}{4}$ "		2	$\frac{1}{2}$ " x $1\frac{3}{4}$ "		2	$\frac{5}{8}$ " x $2\frac{1}{4}$ "						
		Main Bearing Cap Lockwashers.....	4	$\frac{3}{8}$ "		4	$\frac{3}{8}$ "		4	$\frac{3}{8}$ "						
		Main Bearing Shims.....	4	DJ126A		8	ZB126A		8	ZC126A						
		Cylinder Drain Plug.....	1	$\frac{1}{4}$ "		1	$\frac{3}{8}$ "		1	$\frac{3}{8}$ "						
		Base Drain Plug.....	1	$\frac{1}{4}$ "		1	$\frac{3}{8}$ "		1	$\frac{3}{8}$ "						
		Cylinder to Igniter Stud.....	301	$\frac{1}{8}$ " x $1\frac{5}{8}$ "		1	ZB301		1	ZB301						
		Cylinder to Igniter Stud.....	250	$\frac{1}{8}$ " x $1\frac{5}{8}$ "		2	$\frac{3}{8}$ " x $4\frac{1}{2}$ "		}	}		}	}	}	}	}
		Cylinder to Head Stud (Short).....	312			1	$\frac{3}{8}$ " x $4\frac{1}{2}$ "									
		Cylinder to Head Stud (Long).....	313			1	$\frac{3}{8}$ " x $4\frac{7}{8}$ "		3			3		3		68.00
		Detent Stop Pin.....	521			1			1			1		1		
		Name Plate.....	195			1	DJ195			1		ZC195		1		
		Name Plate R. H. M. Screw.....	271			1	#10-24x $\frac{1}{4}$ "		}	}		}	}	}	}	}
Name Plate Washers.....	2	2NPNW		2		#10-24x $\frac{1}{4}$ "										
Cylinder Oiler Nipple.....	2	$\frac{1}{4}$ "x $\frac{3}{8}$ "		2		$\frac{1}{4}$ "x $\frac{3}{8}$ "										
Magneto Bracket.....	412		1	ZB412		1	ZC412		1							
Magneto Bracket Cap Screw.....	22		1	$\frac{1}{2}$ " x $2\frac{3}{4}$ "	}	}	}	}	}	}	}					
Main Bearing Liners, Upper (furnished in pairs only).....		1 Pr.	DJ22	.68								ZB23	1 Pr.	ZC23	1.26	ZC23
Main Bearing Liners, Lower (furnished in pairs only).....	23		1 Pr.	DJ23	.68	1 Pr.	ZB23	1.26	1 Pr.	ZC23	1.90					
3-C	3	<b>3-C Cylinder Head.</b>														
		Cylinder Head.....	3			1	ZB3G	13.20	1	ZC3D	17.60					
		Fuel Pump Lever.....	66A			1	ZB66A	}	1	ZC66A	}	}				
		Butterfly Valve.....	203A-C			1	203A-C		11.50	1			203A-C	14.45		
		Suction Valve.....	9-C			1	9-C		1	9-C	1.06					
		Exhaust Valve.....	10-C			1	10-C	.97	1	10-C	.91					
		Water Throttle Fitting.....	217-C			1	10-C	.74	1	217-C	1.20					

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMMER GEAR DRIVEN MAGNETO.

Repair Nos.	Group Parts	1½ H. P.			3 H. P.			6 H. P.		
		Used	Symbol or Size	Price, Each	Used	Symbol or Size	Price, Each	Used	Symbol or Size	Price, Each
4-C	Reservoir, 1915 Pattern..... Previous to 3 H. P. Engine #185864 Previous to 6 H. P. Engine #185978			\$			\$			\$
4-C	Reservoir, 1916 Pattern..... Used on 3 H. P. Engines #185864 to 259198. Used on 6 H. P. Engines #185978 to 259154.			\$			\$			\$

1915 Pattern

1916 Pattern

These reservoirs are not furnished, but are replaced by 4A-C Reservoir, with the following piping:  
 Brass Close Nipple.....  
 Brass Union.....  
 Brass Bushing.....

2	1"	.10
1	1/8"	.40
1	1/8" x 1/4"	.10



1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER GEAR DRIVEN MAGNETO.

Repair Nos.		Before Ordering Repair Parts Read the Instructions on Page 5			1½ H. P.		3 H. P.		6 H. P.			
Arranged Numerically	Group Parts	NAME OF PART	Used	Symbol or Size	Price, Each	Used	Symbol or Size	Price, Each	Used	Symbol or Size	Price, Each	
8-C 8	{ 8 108 9-C 76 448	8-C Suction Elbow.....	1	DJ8F	\$ 3.10							
		Suction Elbow, always with.....	1	DJ108	2.40							
		Suction Elbow Baffle Plate.....	1	9-C	.53							
		Suction Valve.....	1	DJ76A	.11							
		Suction Elbow Throttle Valve.....	1	#448	.04							
		Suction Elbow Throttle Valve Spring.....										
		Suction Elbow Cap Screw.....	2	¾" x 1 5/8"	.02							
9-C *9	{ 9 122A 310 656 121 88 120	9-C Suction Valve.....	1	DJ9	.53	1	ZB410	.97	1	ZC410	1.06	
		Suction Valve.....	1		.45	1		.55	1	ZBA122A	.65	
		Suction Valve Spring Collar Lock.....										
		Suction Valve Spring.....	1	#648	.08	1	#750A	.08	1	#749A	.08	
		Suction Valve Spring Collar.....										
		Suction Valve Spring Collar Pin.....										
		Suction Valve Spring Cotter.....	1	¾" x 3/8"		1	ZB121	.08	1	ZB121	.08	
		Suction Valve Friction Spring.....										
		Suction Valve Friction Spring.....	1		.25	1	ZB120	.25	1	ZB120	.25	
10-C *10	{ 10 122	10-C Exhaust Valve.....	1	DJ10	.79	1	ZB410	.74	1	ZC410	.91	
		Exhaust Valve Spring Collar Lock.....	1		.50	1		.57	1	ZBA122	.68	
		Exhaust Valve Spring Collar.....										
		Exhaust Valve Spring Collar Cotter.....	1	DJ11	.23	1	ZB11	.04	1	ZB11	.04	
		Exhaust Valve Spring Collar Pin.....	1	¾" x 3/4"		1	¾" x 1 1/8"	.02	1	¾" x 1 1/8"	.02	
		Exhaust Valve Spring.....										
		Exhaust Valve Spring.....	1	#476B	.06	1	#717A	.11	1	#759A	.15	
12		Main Bearing Cap.....	2	DJ12	.46	2	ZB12	.65	2	ZC12	1.14	
		Main Bearing Cap Lock Washer.....	4	1/2" x 1 3/4"	.06	4	1/2" x 1 3/4"	.06	4	5/8" x 2 1/4"	.11	
		Main Bearing Cap Lock Washer.....	4	1/2" x 3/8"	.02	4	1/2" x 3/8"	.02	4	5/8" x 2 1/4"	.02	





Repair Price List—1½ H. P., 3 H. P., 6 H. P. "Z" Engines

15  
9625E

20	Connecting Rod Cap.....	1	DJ20	1.14	1	ZB20	1.41	1	ZC20	1.90
21	21 Fuel Overflow Pipe..... Effective on 3 H. P. Engine #185864. Effective on 6 H. P. Engine #185978.				1		.38	1		.42
21	{ Fuel Overflow Pipe..... Fuel Overflow Pipe Nipple..... Fuel Overflow Pipe Elbow.....	{			1 1 1	ZB21 ¾" x 2½" ¾"	.38	1 1 1	ZC21 ¾" x 2½" ¾"	.42
22	Main Bearing Liner, Upper (Furnished in pairs only).....	1 Pr.	DJ22	.68	1 Pr.	ZB23	1.26	1 Pr.	ZC23	1.90
23	Main Bearing Liner, Lower (Furnished in pairs only).....	1 Pr.	DJ23	.68	1 Pr.	ZB23	1.26	1 Pr.	ZC23	1.90
24	Fuel Suction Pipe..... Effective on 3 H. P. Engine #185864. Effective on 6 H. P. Engine #18578.				1		.34	1		.38
24	{ Fuel Suction Pipe..... Fuel Suction Pipe Nipple..... Fuel Suction Pipe Elbow.....	{			1 1 1	ZB24 ¾" x 1" ¾"	.34	1 1 1	ZC24 ¾" x 1" ¾"	.38
24-C	24-C Fuel Suction Pipe.....	1		1.06						
24	Fuel Suction Pipe.....	1	DJ24B	.34						
24	Fuel Suction Pipe Bushing.....	1	DJ47	.10						
24	Fuel Check Valve.....	1	19-C	.63						
25	Crankshaft with End Turned Down for Starter Crank Previous to Engine #160361. Crankshaft.....	1	DJ25	6.80						

**$1\frac{1}{2}$ , 3 AND 6 H. P. "Z" ENGINES WITH SUMTER GEAR DRIVEN MAGNETO**

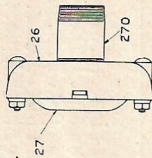
Repair Nos.	Before Ordering Repair Parts Read the Instructions on Page 5		1½ H. P.		3 H. P.		6 H. P.				
	Arranged Numerically	Group Parts	Used	Symbol or Size	Price, Each	Used	Symbol or Size	Price, Each	Used	Symbol or Size	Price, Each
25A	25A		1	ZAA25	\$ 5.75	1	ZBA25	\$11.00	1	ZCA25	\$16.25
26-C						1			1		
26											
27	270					1	24NV	.91	1	ZC26	1.90
						1	24NX	.23	1	ZC27	.63
						1	$1\frac{1}{2}'' \times 2\frac{1}{4}''$	.11	1	$2'' \times 3''$	.29
						2	$1\frac{1}{4}'' \times 1\frac{5}{8}''$	.02	3	$1\frac{5}{8}'' \times 2\frac{3}{4}''$	.02
26A						1			1		
26A						1	ZB26		1	ZC26A	1.03
						1	ZB27	.72	1	ZC27A	
						1	ZB98		1	ZC98	

Before Ordering Repair Parts Read the Instructions on Page 5

**NAME OF PART**

Crankshaft effective on  $1\frac{1}{2}$  H.P. Eng. #160361.  
Crankshaft.....

**26-C Silencer**.....  
Silencer.....  
Previous to 3 H. P. Eng. #185864.  
Previous to 6 H. P. Eng. #185978.



Silencer Base.....  
Silencer Cap.....  
Silencer Nipple.....  
Silencer Stove Bolt.....  
**Note:**—This silencer complete will not be furnished for repairs. Silencer 26A will be furnished.

Silencer.....  
Effective on 3 H. P. Engine #185864.  
Effective on 6 H. P. Engine #185978.  
Silencer Base.....  
Silencer Cap.....  
Silencer Rivet.....  
Silencer Nipple.....



1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMMITER GEAR DRIVEN MAGNETO.

Repair Nos.		Before Ordering Repair Parts Read the Instructions on Page 5	1½ H. P.			3 H. P.			6 H. P.		
Arranged Numerically	Group Parts		Used	Symbol or Size	Price, Each	Used	Symbol or Size	Price, Each	Used	Symbol or Size	Price, Each
37		Detent Plate.....	1	DJ37 5/8" x 5/8"	.06						
38		Detent Plate Hex. Head Cap Screw.....	1	1/16"	.04						
39	{	Detent Fulcrum Pin.....	1	DJ38 3/16" x 3/4"	.02						
		Detent Fulcrum Pin Cotter.....	1	DJ39A 3/16" x 3/8"	.13						
		Detent Fulcrum—with.....	1	DJ40A	.49						
		Detent Fulcrum Blade.....	1								
		Detent Fulcrum Rivet.....	2								
39-C		<b>39-C Exhaust Valve Rocker Arm.</b>									
39	39	Exhaust Valve Rocker Arm.....	1		1.06	1	ZB39F	.91	1	ZC39A	1.06
40	55	Exhaust Valve Rocker Arm Headless Set Screw.....	1			1	3/8" x 1 1/2"	.04	1	3/8" x 1 1/2"	.04
		Exhaust Valve Rocker Arm Jamb Nut.....	1			1	1/2"	.04	1	1/2"	.04
		Exhaust Valve Rocker Arm Lockwasher.....	1			1	1/2"	.02	1	1/2"	.02
	329	Exhaust Valve Rocker Arm Return Spring.....	1			1	#761A	.06	1	#762A	.06
40		Detent Blade (not furnished separately).....	1	DJ40A		1	ZB40C	.29	1	ZC40	.29
40		Exhaust Valve Rocker Arm Fulcrum Pin.....	1			1	3/8"	.04	1	3/8"	.04
41		Exhaust Valve Rocker Arm Fulcrum Pin Nut.....	1			1	ZB41C	.68	1	ZC41	.76
42		Exhaust Valve Rocker Arm Bracket.....	1			1	614 Pin	.04	1	614 Pin	.04
42		Exhaust Valve Rocker Arm Bracket Dowel Pin.....	1			1			1		
42-C		<b>42-C Detent Carrier and Speed Regulator Handle.</b>									
42	42	Detent Carrier and Speed Regulator Handle.....	1	DJ42C	1.62	1			1		
43	43	Detent Carrier Fulcrum Pin.....	1	DJ43	.76	1			1		
	63	Detent Carrier Fulcrum Pin Washer.....	1	DJ63	.15	1			1		
		Detent Carrier Fulcrum Pin Cotter.....	1	DJ39A		1	3/16" x 3/8"		1		
39		Detent Fulcrum.....	1	DJ39A		1			1		
40		Detent Blade.....	1	DJ40A	.49	1			1		
		Detent Blade Rivet.....	2			2	3/8" x 3/8"		2		
38		Detent Fulcrum Pin.....	1	DJ38	.13	1			1		
		Detent Fulcrum Pin Cotter.....	1	DJ38	.08	1			1		
	647	Detent Fulcrum Spring.....	1	#831		1			1		





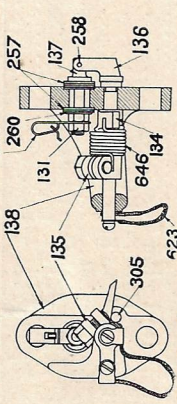




101-C	101-C Cylinder and Base								
101	Cylinder and Base	1							62.10
101	Main Bearing Cap	1							
12	Main Bearing Cap Screw	2							
126	Main Bearing Cap Lockwasher	2							
327	Main Bearing Shims	4							
328	Cylinder Drain Plug	8	DJ126A						58.30
301	Base Drain Plug	1	$\frac{1}{4}$ "						
312	Cylinder to Igniter Stud	1	$\frac{1}{8}$ "						
313	Cylinder to Head Stud (Long)	1							
412	Cylinder to Head Stud (Short)	1							
22	Magneto Bracket	3							
23	Magneto Bracket Cap Screw	1							
	Main Bearing Liner, Upper	2							.63
	Main Bearing Liner, Lower	2							.63
103	Suction Elbow Gasket	1	DJ103						.15
104	Fuel Tank Strap	2	DJ104						.08
105	Fuel Tank Strap Stove Bolt	4	$\frac{1}{4}$ " x $\frac{1}{2}$ "						.02
106	Fuel Tank Strap Carriage Bolt								
110	Fuel Reservoir Overflow Valve								
110A	Pulley Clips	3	DJ106						.02
117	Pulley Clips Machine Bolt	3	$\frac{3}{8}$ " x $2\frac{1}{4}$ "						.04
*120	Connecting Rod Shims (thick), price per set.	4	DJ110						.08
*121	Connecting Rod Shims (thin), price per set.	2	DJ110A						.08
126	Pulley	1	DJ117A						1.75
130	Suction Valve Drag Spring	1							.25
131	Suction Valve Spring Collar	1							.08
133	Main Bearing Shims, Price per set.	8	DJ126A						.15
*134	Magneto to Igniter Wire	1	DJ130						.04
*134A	Igniter Fixed Electrode Jamb Nut	1							.04
135	Cam Gear Stud Washer	1							.68
135A	Igniter Movable Electrode Pawl	1	DJ134A						.51
	Igniter Movable Electrode Pawl	1	DJ134B						.04
	Igniter Movable Electrode Collar	1	DJ135A						.38
	Igniter Movable Electrode Collar Cap Screw	1	$\frac{5}{16}$ " x $\frac{9}{16}$ "						.04
	Igniter Movable Electrode Collar—not furnished separately.	1	DJ135B						.68

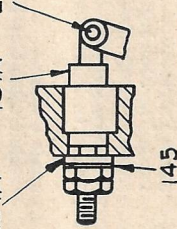
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1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER GEAR DRIVEN MAGNETO.

Repair Nos. Arranged Numerically	Group Parts	Before Ordering Repair Parts Read the Instructions on Page 5		1½ H. P.		3 H. P.		6 H. P.				
		NAME OF PART		Used	Symbol or Size	Price, Each	Used	Symbol or Size	Price, Each	Used	Symbol or Size	Price, Each
*136	258	(Continued from preceding page) Igniter Movable Electrode—with..... Igniter Movable Electrode Point..... Igniter Movable Electrode—with..... Igniter Movable Electrode Point..... Igniter Movable Electrode Collar..... Igniter Movable Electrode Collar Taper Pin..... Igniter Fixed Electrode—with..... Igniter Fixed Electrode Point..... Igniter Fixed Electrode—with..... Igniter Fixed Electrode Point..... Igniter Fixed Electrode Nuts.....		1	DJ136A	\$ .63	1	ZB136	\$ .76	1	ZB136	\$ .76
*136A	258			1	DJ136B	1.18	1			1		
	135A			1	DJ135B							
137	258			1	DJ137A	.63	1	ZB137	.61	1	ZB137	.61
137A				1	DJ137C	1.68	1			1		
138-C		1	138-C Igniter Complete..... Previous to 1½ H. P. Engine #286859.	1		4.26						
138	138 305 136 134 646 623	 <p>M. Screw.....</p>		1	DJ138C	1.71						
			Movabe Electrode Pawl Stop Pin.....	1	DJ128	.63						
			Movabe Electrode.....	1	DJ136A	.61						
			Movabe Electrode Pawl.....	1	DJ134A	.06						
			Movabe Electrode Pawl Spring.....	1	#646B	.04						
			Movabe Electrode to Body Connector.....	1	VA175B	.02						
			Movabe Electrode to Body Connector R. H. M. Screw.....	1	#10-24 x 1"							



1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMMER GEAR DRIVEN MAGNETO.

Repair Nos. Group Parts	Before Ordering Repair Parts Read the Instructions on Page 5		1½ H. P.		3 H. P.		6 H. P.	
	Arranged Numerically	NAME OF PART	Used	Symbol or Size	Price, Each	Used	Symbol or Size	Price, Each
134A	Movable Electrode Pawl.....	1	DJ134B	\$ .61				\$
833	Movable Electrode Pawl Spring.....	1	#833C	.08				
845	Movable Electrode Spring.....	1	#845	.04				
	 <p>257A 137A 258</p> <p>145</p>							
137A	Fixed Electrode with point and nuts.....	1	DJ137B	1.68				
257A	Fixed Electrode Fibre Washer.....	1	DJ129	.02				
145	Fixed Electrode Steel Washer.....	1	DJ145	.02				
	<b>Note:</b> —When 138A-C Igniter is ordered, 138B-C will be furnished.							
	<b>138B-C Igniter</b> .....	1	DJ138D	5.60				
138A	Igniter Body with.....	1	#414	1.71				
305	Movable Electrode Pawl Stop Pin.....	1	DJ136B					
136A	Movable Electrode with.....	1	DJ258A					
258	Movable Electrode Point.....	1	DJ135B	1.18				
135A	Movable Electrode Collar.....	1	#2 x 1½					
	Movable Electrode Collar Taper Pin.....	1	DJ134B	.61				
134A	Movable Electrode Pawl.....	1	#833C	.08				
833	Movable Electrode Pawl Spring.....	1	#845	.04				
845	Movable Electrode Spring.....	1	DJ137C	1.68				
137B	Fixed Electrode with point and nuts.....	1						

\*138B-C  
138A

Repair Price List—1½ H. P., 3 H. P., 6 H. P. "Z" Engines

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9625B

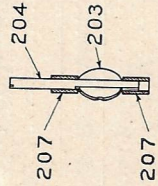
2276	Fixed Electrode Gasket.....	1	ZA2276A	.02					
2273	Fixed Electrode Insulation.....	1	ZB2273A	.10					
2275	Fixed Electrode Insulating Bushing Gasket...	1	ZB2275A1	.02					
2274	Fixed Electrode Sleeve.....	1	DJ2274A	.04					
2277	Fixed Electrode Sleeve Gasket.....	1	ZB2277A	.02					
260A	Fixed Electrode Bushing.....	1	ZA260A1	.08					
145	Fixed Electrode Washer.....	1	DJ145	.02					
	Fixed Electrode Hex. Nuts.....	2	3/16"	.04					
139	Igniter Clamp.....	1	DJ140A	.15		ZB139A	.10	ZB139A	.10
140	Igniter Trip Carrier Fulcrum Pin.....	1	DJ140A	.15		ZC140		ZC140	
140	Igniter Trip Carrier Fulcrum Pin Washer.....	5	DJ63	.15		DJ63		DJ63	
	Igniter Trip Carrier Fulcrum Pin Cotter.....	1	DJ141A	.08		3/32" x 3/8"		3/32" x 3/8"	.15
*141	Igniter Gasket.....	1	DJ141A	.08					
142	Magneto Gear.....	1	DJ142	.99		ZB142	1.06	ZC142A	1.14
143	Igniter Trip Rod Made in One Piece..... Previous to 1½ H. P. Engine #267896. This rod will be replaced by 143A-C on all repair orders.								
143A-C	143A-C Igniter Trip Rod..... Effective on 1½ H. P. Engine #267896.	1		.98					
143A	Igniter Trip Rod.....	1	DJ143C	.80					
54A	Igniter Trip Rod Blade.....	1	DJ54A	.10					
57A	Igniter Trip Rod Blade Spring.....	1	DJ57A	.02					
	Igniter Trip Rod Blade R. H. M. Screw.....	1	#10-24 x 3/4"	.02					
	Igniter Trip Rod Blade Nut.....	1	3/16"	.02					
	Igniter Trip Rod Blade Lockwasher.....	1	1/8"	.02					
145	Igniter Trip Rod Blade Washer.....	1	DJ145	.02					
144	Igniter Trip Rod Pin in Gear.....	1	DJ144	.10					
145	Igniter Trip Rod Blade Washer.....	1	DJ145	.02					
146	Cylinder Drain Plug.....	1	DJ150	.04					
150	Connecting Rod Bolts with.....	2	3/32" x 7/8"	.17		ZB150	.19	ZC150	.29
150	Connecting Rod Bolt Cotter.....	2	3/32" x 7/8"	.17					
151	Connecting Rod S. A. E. Castellated Nut.....	2	3/32"	.06					.11

(Continued on next page.)

Repair Price List—1½ H. P., 3 H. P., 6 H. P. "Z" Engines

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER GEAR DRIVEN MAGNETO.

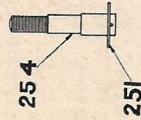
Repair Nos. Arranged Numerically	Group Parts	Before Ordering Repair Parts Read the Instructions on Page 5				1½ H. P.			3 H. P.			6 H. P.		
		NAME OF PART	Used	Symbol or Size	Price, Each	Used	Symbol or Size	Price, Each	Used	Symbol or Size	Price, Each	Used	Symbol or Size	Price, Each
156		(Continued from preceding page)												
157		Governor Spring Adjusting Nut.....	2	#866	\$.06	1	ZB156A	\$.08	1	ZB156A	\$.08	1	ZB156A	\$.08
160		Flywheel Key.....	1	DJ160	.04	2	ZB157	.08	2	ZB157	.10	2	ZC157	.10
		End Thrust Washer.....	1			1	ZB160	.04	1	ZB160	.04	1	ZC160	.04
174		Suction Elbow Priming Cup—Used Previous to about Engine #166000.....	1	VA174	.32	1 Pr.	ZB176	1.03	1 Pr.	ZC176	1.90	1 Pr.	ZC176	1.90
*176		Crank Pin Liner (Halves).....	1 Pr.	DJ176	.68	1	ZBA190A	.48	1	ZCA190A	.53	1	ZCA190A	.53
*190B		Cylinder Head Gasket.....												
192		Reservoir to Head Gasket.....	1	DJ195	.19	1	ZB192	.02	1	ZC192	.02	1	ZC192	.02
195		Name Plate.....	2	#10-24 x 1/4"	.02	2	ZB195	.19	1	ZC195	.19	1	ZC195	.19
		Name Plate R. H. M. Screw.....	2	2NPW	.02	2	#10-24 x 1/4"	.02	2	#10-24 x 1/4"	.02	2	#10-24 x 1/4"	.02
		Name Plate Rubber Washer.....	2			2	2NPW	.02	2	2NPW	.02	2	2NPW	.02
		Butterfly Valve and Shaft with Valve Soldered to Shaft. Previous to 3 H. P. Engine #288351. Previous to 6 H. P. Engine #287103.....					#288351			#287103			#287103	
201		Butterfly Valve Shaft Washer.....	1			1	ZB201A	.04	1	ZB201A	.04	1	ZB201A	.04
203		Butterfly Valve.....												
204		Butterfly Valve Shaft—furnish 203A-C For repairs on 204 Shaft, 203A-C Butterfly Valve complete will be furnished.												





1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER GEAR DRIVEN MAGNETO.

Repair Nos. Arranged Numerically	Group Parts	Before Ordering Repair Parts Read the Instructions on Page 5				1½ H. P.			3 H. P.			6 H. P.		
		NAME OF PART				Used	Symbol or Size	Price, Each	Used	Symbol or Size	Price, Each	Used	Symbol or Size	Price, Each
223		Fuel Reservoir Nozzle and Bushing.....												
224		Speed Regulator Screw.....												
225		Gear Guard with Bracket.....												
		Gear Guard R. H. M. Screw.....												
228		Fuel Suction and Overflow Fitting.....												
		Previous to Engine.....												
228		Fuel Suction and Overflow Fitting.....												
		Fuel Suction and Overflow Fitting Plug.....												
250		Cylinder to Igniter Stud.....												
251		Cylinder to Igniter Stud Nut.....												
		Governor Weight Pin Washer.....												
252		Crankshaft Pinion Pin.....												
253		Flywheel Key.....												
		Governor Fulcrum Pin previous to 1½ H. P. Z Engine #261679.....												



Governor Fulcrum Pin is replaced by #33A with Spring #817A for repairs.....



1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER GEAR DRIVEN MAGNETO.

Repair Nos.		Before Ordering Repair Parts Read the Instructions on Page 5	1½ H. P.		3 H. P.		6 H. P.		
Arranged Numerically	Group Parts		Used	Symbol or Size	Price, Each	Used	Symbol or Size	Price, Each	
		<b>NAME OF PART</b>							
		<b>273-C Magneto</b>							
273	273	Sumter Special Magneto.....	1	#15 Imp. 3/8" x 1 1/8"	\$.06	1	#25 Satam. 3/8" x 1 1/8"	\$.06	
		Sumter Special Magneto Fil. Head Screw.....	2	3/8"	.02	2	3/8"	.02	
		Sumter Special Magneto Lockwasher.....	2	3/8"	.02	2	3/8"	.02	
	142	Sumter Special Magneto Gear.....	1	DJ142	.99	1	ZC142A	1.14	
300		Fuel Pump Plunger Spring.....							
301		Igniter Clamp Stud.....					#783 1/2" x 2 1/4"	.04	
302		Igniter Clamp Stud Nut.....					1/2"	.06	
303		Fuel Pump Balls.....					1/2"	.04	
		Fuel Pump Ball Pin.....					4/5	.04	
305		Igniter Pawl Stop Pin.....	1	DJ128	.04	1	#405	.02	
		Previous to 3 H. P. Engine #185864. Previous to 6 H. P. Engine #185978.							
		Suction Pipe Union (Female Half).....					1/2" x 9 1/2"	.17	
		Overflow Pipe, Horizontal.....					1/2" x 4 1/2"	.15	
		Overflow Pipe, Vertical.....					1/2" x 4 1/2"	.10	
		Overflow Nipple.....					1/2" x 1 1/2"	.04	
		Overflow Nipple.....					1/2" x 1"	.04	
		Overflow Union.....					1/2" x 1"	.17	
		Overflow Elbow.....					1/2" x 1"	.04	
							1/2" x 12 3/4"	.17	
							1/2" x 7 3/4"	.11	
							1/2" x 1 1/2"	.04	
							1/2" x 1"	.04	
							1/2" x 1"	.17	
							1/2" x 1"	.04	

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1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER GEAR DRIVEN MAGNETO.

Repair Nos.	Before Ordering Repair Parts Read the Instructions on Page 5		1½ H. P.		3 H. P.		6 H. P.	
	Arranged Numerically	Group Parts	Used	Symbol or Size	Price, Each	Used	Symbol or Size	Price, Each
<b>NAME OF PART</b>								
<b>728A-C Starter Crank</b>								
728A	Starter Crank	1	ZA728B	\$ 1.14	1	ZB14	.....	\$ 1.90
265B	Starter Crank Pawl	1	ZA265A	1.14	1	ZA265A	.....	1.90
266A	Starter Crank Pawl Pin	1	ZA266		1	ZA266	.....	
267	Starter Crank Pawl Spring	1	ZA267A		1	ZA267A	.....	
<b>748-C Complete Set of Springs</b>								
267	Starter Crank Pawl Spring	1	ZA267A	.52	1	ZA267A	.....	.77
300	Fuel Pump Plunger Spring	1		.06	1	#783	.....	.06
308	Governor Weight Spring	1		.....	1	#763	.....	.04
310	Suction Valve Spring	1		.....	1	#750A	.....	.04
311	Fuel Throttle Valve Spring	1		.....	1	#784	.....	.08
314	Fuel Reservoir Cover Spring	1		.....	1	#742	.....	.06
317	Exhaust Valve Spring	1		.....	1	#717A	.....	.04
319	Exhaust Rod Spring	1		.....	1	#699	.....	.11
323	Movable Electrode Pawl Spring	1		.....	1	#743B	.....	.06
324	Igniter Trip Lever Spring	1		.....	1	#688	.....	.08
326	Butterfly Valve Torsion Spring	1		.....	1	#744B	.....	.04
329	Exhaust Valve Rocker Arm Return Spring	1		.....	1	#761A	.....	.06
448	Throttle Valve Spring	1	#448	.04	1		.....	.06
476	Exhaust Valve Spring	1	#476B	.06	1		.....	.06
647	Detent Spring	1	#831	.08	1		.....	.06
656	Suction Valve Spring	1	#648	.08	1		.....	.04
752	Governor Weight Spring	1	#752	.04	1		.....	.06
833	Movable Electrode Pawl Spring	1	#833	.08	1		.....	.06
845	Movable Electrode Seat Spring	1	#845	.04	1		.....	.06
	Governor Weight Fulcrum Pin Spring	1	#817A	.04	1		.....	.06
<b>749-C Complete Set of Gaskets</b>								
103	Complete Set of Gaskets	1	DJ103	.18	1		.....	.55
141	Suction Elbow Gasket	1	DJ141A	.10	1		.....	
	Igniter Gasket	1		.08	1		.....	



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