

CAPLA...  
1814 1/2 Jones St. - Jackson 2418  
OMAHA, NEBB

# ILLUSTRATED LIST

of

## Genuine Auto-Lite Parts

for

# S T A R

Models C, F & M. (4 cyl.) & R (6 cyl.)

### UNITS INCLUDED

Generator.....	GJ-4014	Distributor....	IG-4067A
Generator.....	GT-4001	(6 cyl.)	
Generator.....	GT-4001A	Ignition Coil ..	IG-4066
Distributor....	IG-4030A	Starting Motor	MG-4004
(4 cyl.)		Starting Motor	MO-4102
Distributor....	IG-4036D	Starting Switch	SW-4001
(4 cyl.)			

NOTICE—See instructions on the inside front cover for the selecting and ordering of parts.

### THIS IS IMPORTANT

The Electric Auto-Lite Company  
TOLEDO, OHIO

Printed in U. S. A.

## **IDENTIFYING PARTS WANTED**

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The first column on each page shows the car manufacturer's part number; the second column the illustration number; the third column the Auto-Lite part number; and the fourth column the name of the part.

The generator and motor parts are listed in a general order of frame and field, terminal post, commutator end head, armature, drive end head and miscellaneous. Main assemblies are shown in bold face type with the service parts comprising the assembly indented below.

Parts should always be identified from the printed list using the illustrations only to verify the part as the right one. Parts illustrations can be found by referring to the "Ill. No." column, turning to the plate shown by the number and the item shown by the letter. (Screws, lock washers, etc. are not illustrated, they being identified by size and thread which are given in the printed lists.)

## **TO ORDER PARTS**

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First, be sure you have the right parts list for the unit for which the part is wanted. Auto-Lite generators and motors carry the model and type stamped on the name plate riveted to the head band assembly and the later type distributors show the model and type on the name plate riveted to the distributor housing.

Second, locate in the printed list the particular parts wanted, verifying your selection from the illustrations if in doubt.

Third, show on your order the car make, model and number; the unit model and type; and the Auto-Lite part numbers as given in the column immediately preceding the part name and headed "A-L No."

If these instructions are followed no difficulty should be experienced in ordering parts and orders can be filled promptly by the Service Station.

A U T O - L I T E S Y S T E M

**Generator Model GJ-4014 Used on Models C and F**

Dur. No.	Ill. No.	A-L No.	NAME OF PART
	6-A	GJ-1007	Field coil (upper left)
	6-B	GJ-1008	Field coil (lower right)
	6-C	GJ-1009	Field coil (upper right)
	6-D	GJ-1010	Field coil (lower left)
	6-E	MG-20	Frame screw
		X-1015	Frame screw lock washer ( $\frac{1}{4}$ " )
	<b>4-J</b>	<b>GK-1130</b>	<b>Terminal post assembly</b>
	4-E	GK-27	Terminal post
	4-A	GK-28	Terminal post lead assembly
	4-F	GK-129	Terminal post bottom insulation
	4-G	GK-130	Terminal post frame insulation
	4-H	GK-131	Terminal post cover insulation
	4-I	GK-132	Terminal post top insulation
	4-D	5X-177	Terminal post nut (No. 14-24)
	4-B	X-187	Terminal post brass washer (No. 14)
	4-C	X-199	Terminal post lock washer ( $\frac{1}{4}$ " )
<b>20512</b>	<b>11-B</b>	<b>GJ-1164</b>	<b>Commutator end head assembly</b>
20513	13-E	GJ-1165	Commutator end head cap assembly
		X-275	Commutator end head cap rivet
20528	9-J	GK-1120	Brush holder plate assembly
3148	9-C	GK-50	Brush spring
3154	9-D	GK-1012	Main brush assembly
3155	9-E	GK-1013	Third brush assembly
	9-B	GK-15	Third brush holder
3146	9-H	GK-40	Third brush holder screw
		X-196	Third brush holder screw lock washer (No. 10)
	9-A	GK-120	Third brush holder stop
	9-G	GK-17	Brush holder plate screw
3142	9-F	GK-30	Brush holder plate screw nut
	4-C	X-199	Brush holder plate screw lock washer ( $\frac{1}{4}$ " )
<b>20514</b>	<b>8-D</b>	<b>GJ-2161</b>	<b>Armature complete assembly</b>
	66-E	GT-87	Armature felt washer—inner (comm. end)
	66-D	GJ-170	Armature felt washer—outer
	66-B	GJ-171	Felt washer retainer
	16-C	X-263	Armature shaft Woodruff key
	16-G	X-1057	Armature shaft nut ( $\frac{1}{2}$ "-20 S.A.E.)
<b>20511</b>	<b>8-C</b>	<b>GJ-1162</b>	<b>Drive end head assembly</b>
22792	13-A	GK-1002A	Head band assembly
	16-H	6X-120	Head band screw (No. 10-32x $\frac{5}{8}$ " fill. hd.)
	16-B	GJ-174	Grease cup
	16-F	GJ-1175	Wick and spring assembly
	13-D	GJ-166A	Igniter housing extension
20501	16-A	GJ-167	Igniter gear (driver)
		GG-133	Igniter gear rivet ( $\frac{1}{8}$ " x $\frac{27}{32}$ " )
21364	16-E	GJ-201	Igniter lock screw
	16-D	X-489	Oiler
	<b>11-C</b>	<b>CB-4009</b>	<b>Circuit breaker assembly</b>
		GJ-4014	Generator complete

**Note**—When ordering parts be sure to use the "A-L No." and not the illustration number which refers only to the illustrations in this catalogue.

**AUTO-LITE SYSTEM**

**Generator Model GT-4001 Used on Models C and F**

Dur. No.	Ill. No.	A-L No.	NAME OF PART
22788	13-B	GT-1007	Field coil (upper)
		GT-48	Circuit breaker lead
22789	13-C	GT-1008	Field coil (lower)
	66-A	GT-7	C. B. lead insulating tube
	2-D	X-755	C. B. lead terminal
	66-C	MN-21	Frame dowel
	37-E	GT-20	Frame screw
		X-1015	Frame screw lock washer ( $\frac{1}{4}$ "')
	<b>67-D</b>	<b>GT-1002</b>	<b>Commutator end head complete</b>
23207	67-E	GT-1002A	Commutator end head (includes bearing, fuse holder and oiler)
20513	13-E	GJ-1165	Commutator end head cap assembly
	65-E	GK-17	Brush holder plate screw
3142	65-D	GK-30	Brush holder plate screw nut (No. 14-24)
		X-199	Brush holder plate screw lock washer ( $\frac{1}{4}$ "')
22790	65-A	GT-2084A	Brush holder plate assembly
22262	65-H	GT-12	Main brush
22261	65-C	GT-13	Third brush
		6X-54	Brush screw (No. 8-32x $\frac{1}{2}$ " rd. hd.)
		X-195	Brush screw lock washer (No. 8)
		6X-350	Brush screw plain washer (No. 8)
	65-B	GT-26	Brush spring (main)
	65-G	GT-27	Brush spring (main)
	65-J	GT-18	Brush spring (third)
	65-F	GT-41	Brush holder post clip
	65-K	GT-32	Brush spring insulator
	65-L	GK-170	Ground connector
		6X-305	Ground connectorscrew (No. 8-32x $\frac{1}{4}$ " rd. hd.)
		X-195	Ground connector screw lock washer (No. 8)
	2-G	X-842	5 ampere fuse
		6X-59	Fuse clip screw (No. 8-32x $\frac{3}{16}$ " rd. hd.)
		X-195	Fuse clip screw lock washer (No. 8)
<b>22791</b>	<b>67-A</b>	<b>GT-2006</b>	<b>Armature complete assembly</b>
	66-F	GK-91	Oil thrower (comm. end)
	67-B	GK-115	Oil thrower (drive end)
	66-B	GJ-171	Felt washer retainer
	66-E	GT-87	Armature felt washer—inner (comm. end)
	66-D	GJ-170	Armature felt washer—outer
	2-K	X-263	Armature shaft Woodruff key
	2-H	X-1057	Armature shaft nut ( $\frac{1}{2}$ "-20 S.A.E.)
<b>22315</b>	<b>67-C</b>	<b>GT-1053</b>	<b>Drive end head assembly</b>
	16-D	X-489	Drive head oiler
22792	13-A	GK-1002A	Head band assembly
	16-H	6X-120	Head band screw (No. 10-32x $\frac{5}{8}$ " fill. hd.)
	15-D	GJ-166	Igniter housing extension (see Note 1.)
	16-H	6X-120	Igniter extension screw (No. 10-32x $\frac{5}{8}$ " fill. hd.)
		X-196	Igniter extension screw lock washer (No. 10)
21364	16-E	GJ-201	Igniter lock screw
		X-199	Igniter lock screw lock washer ( $\frac{1}{4}$ "')

(Continued on next page)

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## A U T O - L I T E S Y S T E M

### Generator Model GT-4001 Used on Models C and F

(continued from preceding page)

Dur. No.	Ill. No.	A-L No.	NAME OF PART
20501	2-A	GJ-167	Igniter gear (driver)
		GG-133	Igniter gear rivet ( $\frac{1}{8}'' \times \frac{27}{32}''$ )
		6X-321	Circuit breaker mounting screw (No. 10-32 $\times\frac{5}{16}''$ rd. hd.)
		6X-877	Coil mounting screw ( $\frac{1}{4}''-20 \times \frac{5}{16}''$ fill. hd.)
		X-199	Coil mounting screw lock washer ( $\frac{1}{4}''$ )
	2-B	GJ-174	Grease cup
	2-C	GJ-1175	Oil wick and spring assembly
20188		GT-4001	Generator complete

**Note 1**—When replacing GJ-166 igniter housing extension we recommend using GJ-1197 igniter housing extension assembly. To make this change remove the IG-215 ground spring from the igniter assembly.

### Generator Model GT-4001A Used on Models M and R

Dur. No.	Ill. No.	A-L No.	NAME OF PART
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Use the same parts list for this model as for GT-4001 except GJ-166 should be replaced with the parts listed below and GJ-201 and X-199 should be omitted.

22793		GJ-1197	Igniter housing extension assembly
	68-A	GJ-313	Igniter housing extension
22794	68-D	GJ-197	Igniter housing clamp
22795	68-C	GJ-198	Igniter clamp screw
22796	68-B	GJ-199	Igniter clamp screw spring
22587		GT-4001A	Generator complete

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A U T O - L I T E   S Y S T E M

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**Distributor Model IG-4030A Used on Models C and F**

Dur. No.	Ill. No.	A-L No.	NAME OF PART
1692	61-C	IG-1057	Distributor cap assembly
3207	61-B	IG-1058	Distributor disc assembly
3208	1-D	IG-1069	Breaker arm assembly (Use with IG-1178)
22637	69-F	IG-2469	Breaker arm assembly (Use with IG-1465)
3192	1-B	IG-81	Breaker arm spring
	1-C	IG-408	Ground strip
	61-D	IG-1177	Igniter base assembly
20577	61-E	IG-2243	Condenser assembly
	1-H	X-207	Condenser holding set screw ( $\frac{3}{16}$ "-32x $\frac{1}{4}$ " headless)
3199	1-E	IG-111	Contact adjusting screw
20578	61-A	IG-2188	Primary lead (Replace with IG-397, IG-476 and IG-405)
22638	69-A	IG-397	Primary lead
	69-E	IG-476	Primary lead terminal
	69-B	IG-405	Terminal washer
		2X-872	Terminal screw (No. 10-32x $\frac{1}{4}$ " fill. hd.)
		X-196	Terminal screw lock washer (No. 10)
3196	1-G	IG-90	Igniter gear thrust washer
		IG-451	Igniter gear rivet ( $\frac{1}{8}$ "x $\frac{45}{64}$ " )
20562	1-A	GJ-168	Igniter gear (follower)
20576	61-E1	IG-1178	Cam shaft assembly (radial type)
	61-E2	IG-1465	Cam shaft assembly (flat type)
21583	1-F	IG-215	Distributor ground spring
		IG-4030A	Distributor complete

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A U T O - L I T E S Y S T E M

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**Distributor Model IG-4036D Used on Models F and M**

Dur. No.	Ill. No.	A-L No.	NAME OF PART
1692	61-C	IG-1057	Distributor cap assembly
3207	61-B	IG-1058	Distributor disc assembly
22637	69-F	IG-2469	Breaker arm assembly
3192	1-B	IG-81	Breaker arm spring
	1-C	IG-408	Ground strip
22639	61-D	IG-1177F	Igniter base assembly
20577	61-F	IG-2243	Condenser assembly
	1-H	X-207	Condenser holding set screw ( $\frac{3}{16}$ "-32x $\frac{1}{4}$ " headless)
3199	1-E	IG-111	Contact adjusting screw
	69-A	IG-397	Primary lead
	69-E	IG-476	Primary terminal
	69-B	IG-405	Terminal washer
		2X-872	Terminal screw (No. 10-32x $\frac{1}{4}$ " fill. hd.)
		X-196	Terminal screw lock washer (No. 10)
3196	1-G	IG-90	Igniter gear thrust washer
		IG-451	Igniter gear rivet ( $\frac{1}{8}$ "x $\frac{45}{64}$ " )
20562	1-A	GJ-168	Igniter gear (follower)
20576	61-E2	IG-1465	Cam shaft assembly
22629		IG-4036D	Distributor complete

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A U T O - L I T E   S Y S T E M

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**Distributor Model IG-4067A Used on Model R**

Dur. No.	Ill. No.	A-L No.	NAME OF PART
	69-D	IG-1053	Distributor cap assembly
3207	61-B	IG-1058	Distributor disc assembly
22637	69-F	IG-2469	Breaker arm assembly
3192	1-B	IG-81	Breaker arm spring
	1-C	IG-408	Ground strip
22639	61-D	IG-1177F	Igniter base assembly
20577	61-F	IG-2243	Condenser assembly
	1-H	X-207	Condenser set screw ( $\frac{3}{16}$ "-32x $\frac{1}{4}$ " headless)
3199	1-E	IG-111	Contact adjusting screw
22638	69-A	IG-397	Primary lead
	69-E	IG-476	Primary terminal
	69-B	IG-405	Terminal washer
		2X-872	Terminal screw (No. 10-32x $\frac{1}{4}$ " fill. hd.)
		X-196	Terminal screw lock washer (No. 10)
3196	1-G	IG-90	Igniter gear thrust washer
		IG-451	Igniter gear rivet ( $\frac{1}{8}$ "x $\frac{5}{64}$ " )
	1-A	GJ-168	Igniter gear (follower)
22591	69-C	IG-1467	Cam shaft assembly
22589		IG-4067A	Distributor complete

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A U T O - L I T E S Y S T E M

**Starting Motor Model MG-4004 Used on Models C and F**

Dur. No.	Ill. No.	A-L No.	NAME OF PART
	7-A	MG-1007	Field coil (upper left)
	7-B	MG-1008	Field coil (lower right)
	7-C	MG-1009	Field coil (lower left)
	7-D	MG-1010	Field coil (upper right)
		MG-65	Aligning dowel
	7-E	MG-20	Frame screw
		X-1015	Frame screw lock washer ( $\frac{1}{4}$ " )
	3-G	MG-68	Terminal insulating washer
	3-F	MG-69	Terminal insulation (cover)
	3-E	MG-70	Terminal insulation (frame)
	3-B	5X-179	Terminal post nut ( $\frac{3}{8}$ "-16)
	3-C	X-201	Terminal post nut lock washer ( $\frac{3}{8}$ " )
	<b>5-A</b>	<b>MG-1005</b>	<b>Commutator end head assembly</b>
	3-D	MG-1036	Comm. end bearing and cap assembly
		X-285	Comm. end bearing cap rivet ( $\frac{1}{8}$ " x $\frac{7}{16}$ " copper)
3175	5-B	MG-1003	Brush holder plate assembly
3176	5-C	MG-1012	Brush assembly
		6X-311	Brush screw (No. 10-32 x $\frac{3}{8}$ " rd. hd.)
		X-196	Brush screw lock washer (No. 10)
	5-D	GK-19	Brush spring
	3-A	MG-71	Bearing cap cover
<b>20556</b>	<b>8-A</b>	<b>MG-2006</b>	<b>Armature complete assembly</b>
	5-E	X-261	Armature Woodruff key
20547	8-B	MG-63	Drive end head
		MH-30	Drive end head felt wick
	16-D	X-489	Oiler
3174	15-A	MG-1002A	Head band assembly
	16-H	6X-120	Head band screw (No. 10-32 x $\frac{5}{8}$ " fill. hd.)
	<b>15-B</b>	<b>EB-28</b>	<b>Bendix drive complete</b>
	53-A	EB-507	Shaft spring screw
	53-B	EB-508	Lock washer
	53-C	EB-2307	Head spring screw
	53-E	EB-2801	Shaft and pinion assembly
	53-D	EB-2806	Drive spring
20252		MG-4004	Motor complete with Bendix

**Note**—When ordering parts be sure to use the "A-L No." and not the illustration number which refers only to the illustrations in this catalogue.

A U T O - L I T E S Y S T E M

**Starting Motor Model MO-4102 Used on Models F, M and R**

Dur. No.	Ill. No.	A-L No.	NAME OF PART
		MG-65	Aligning dowel
	37-E	MO-20	Frame screw
		X-1015	Frame screw lock washer (1/4")
	37-A	MO-1007	Field coil (upper left)
	37-B	MO-1008	Field coil (lower right)
	37-C	MO-1009	Field coil (lower left)
	37-D	MO-1010	Field coil (upper right)
		3-G MG-68	Terminal post insulating washer
		3-F MG-69	Terminal insulation (cover)
		3-E MG-70	Terminal insulation (frame)
20532		3-B 5X-179	Terminal nut (3/8"-16 U.S.S.)
		3-C X-201	Terminal nut lock washer (3/8")
		<b>17-B MG-2075</b>	<b>Commutator end head assembly</b>
		3-D MG-1036	Comm. end bearing and cap assembly
		6X-245	Comm. end bearing cap rivet (1/8"x3/8" iron)
	17-D	MG-73	Main brush spring
23163	17-C	MH-54	Brush
		6X-54	Brush screw (No. 8-32x1/2" rd. hd.)
		X-195	Brush screw lock washer (No. 8)
	17-A	MH-53	Ground connector
		6X-311	Ground connector screw (No. 10-32x3/8" rd. hd.)
		X-196	Ground connector screw lock washer (No. 10)
		6X-794	Ground connector nut (No. 10-32 U.S.F. sq.)
		3-A MG-71	Bearing cap cover
<b>22799</b>	<b>8-A</b>	<b>MO-2006</b>	<b>Armature complete assembly</b>
	16-C	X-261	Armature shaft Woodruff key
20547	8-B	MG-63	Drive end head
		MH-30	Drive end head oil wick
	16-D	X-489	Drive end head oiler
3174	15-A	MG-1002A	Head band assembly
	16-H	6X-120	Head band screw (No. 10-32x5/8" rd. hd.)
	<b>15-B</b>	<b>EB-28</b>	<b>Bendix drive complete</b>
		53-A EB-507	Shaft spring screw
		53-B EB-508	Lock washer
		53-C EB-2307	Head spring screw
		53-E EB-2801	Shaft and pinion assembly
		53-D EB-2806	Drive spring
22797		MO-4102	Motor complete with Bendix

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A U T O - L I T E   S Y S T E M

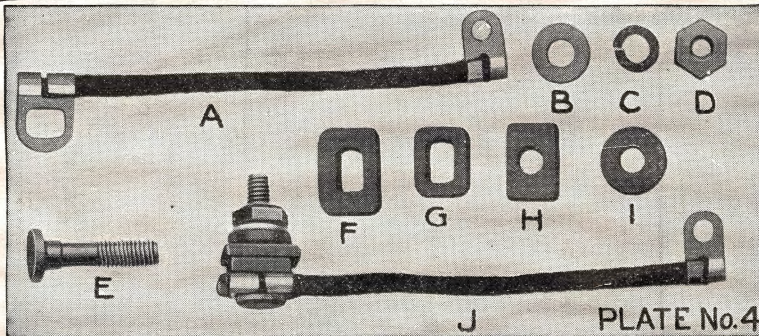
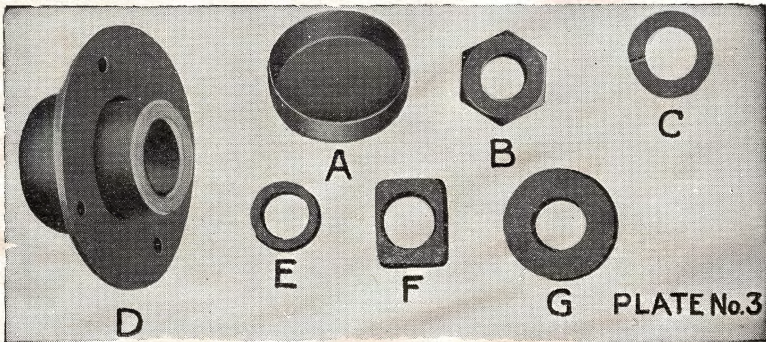
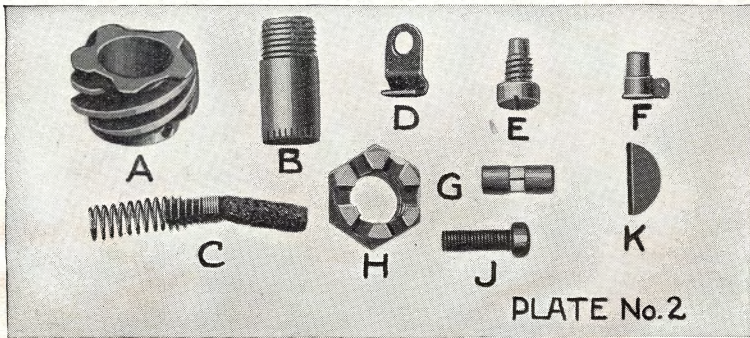
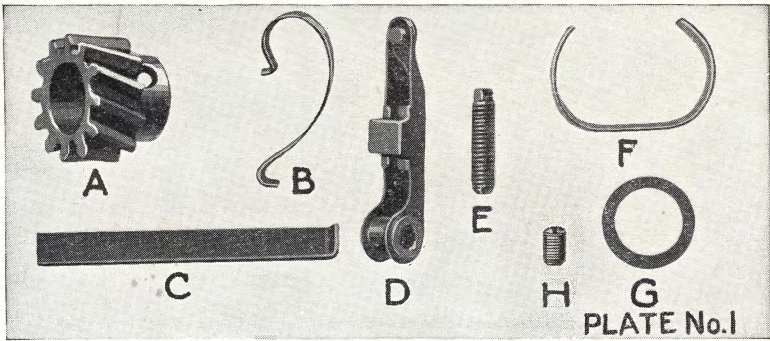
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**Auxiliary Units and Parts Used on Models C, F, M and R**

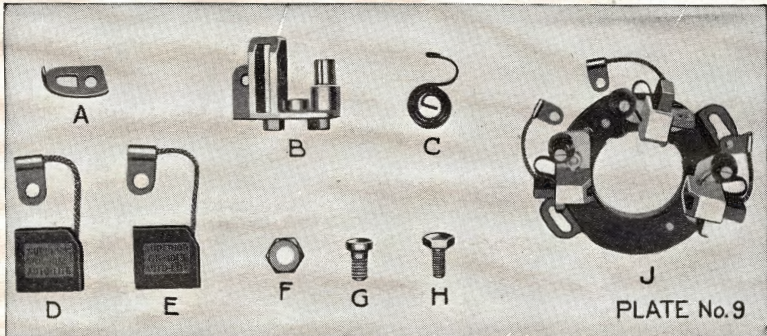
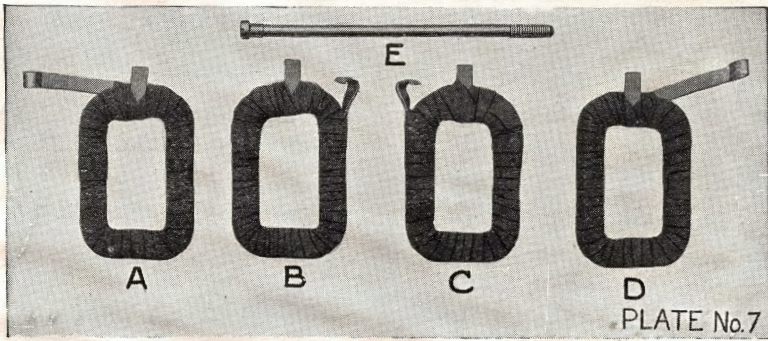
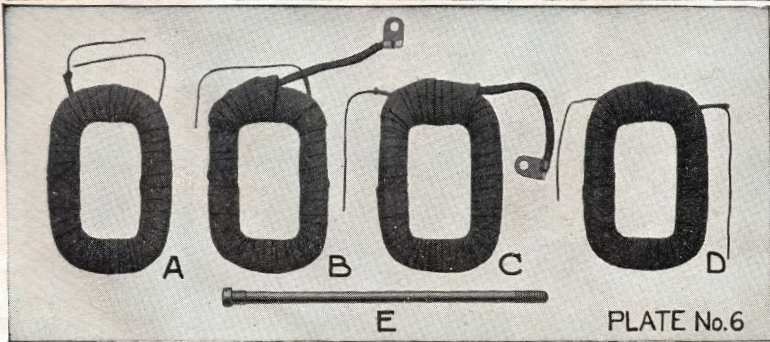
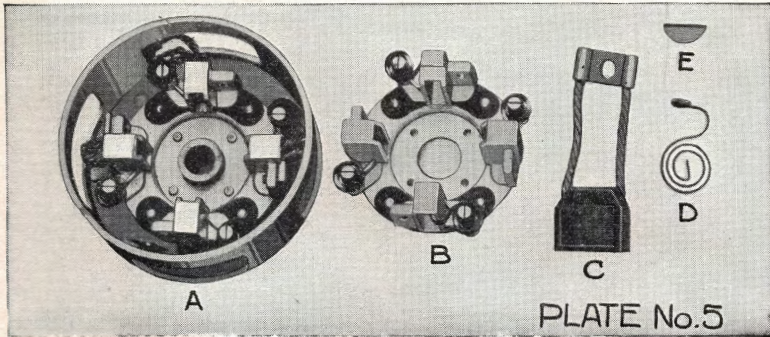
Dur. No.	Ill. No.	A-L No.	NAME OF PART
	11-C	CB-4009	Circuit breaker assembly
	70-A	CB-4001	Circuit breaker (Use CB-4007)
21858	72-B	CB-4007	Circuit breaker assembly
	70-F	CB-115	Circuit breaker cover (fits all types)
1404	12-C	SW-4001	Starting switch complete
	70-B	IG-4031	Ignition coil (Use IG-4070 with IG-1596 bracket)
	11-A	IG-4047	Ignition coil (Use IG-4070 with IG-1596 bracket)
20559	70-D	IG-1205	Resistance unit for IG-4031 and IG-4047
	70-E	IG-4063	Ignition coil (Use IG-4070 with IG-1596 bracket)
2004	70-C	IG-1097	Resistance unit for IG-4063
20209		IG-4066	Ignition coil (Use IG-4070 with IG-1596 bracket)

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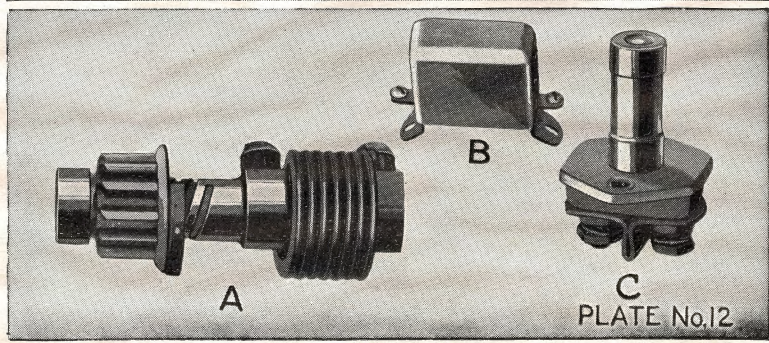
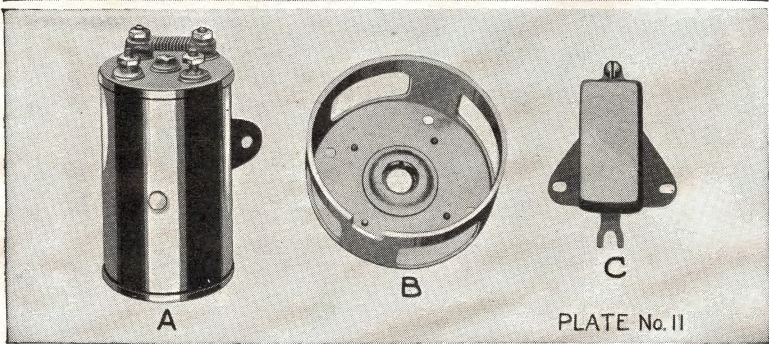
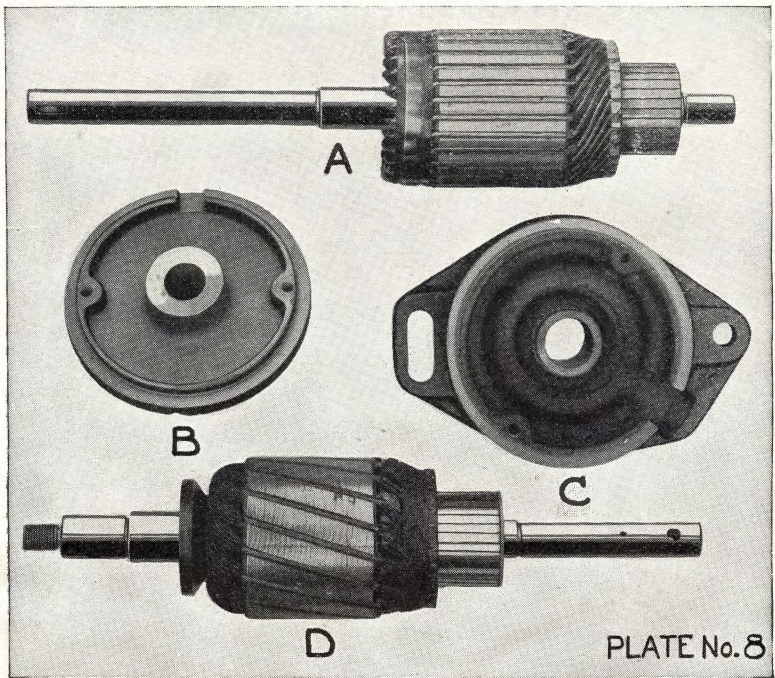
AUTO-LITE SYSTEM



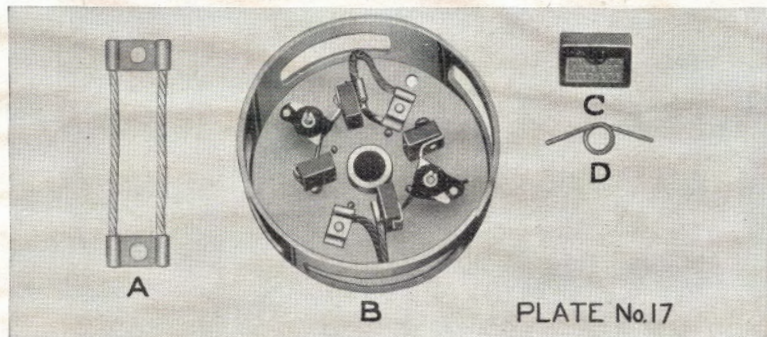
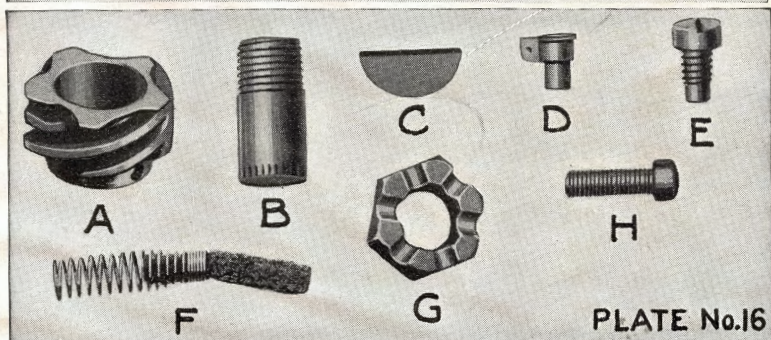
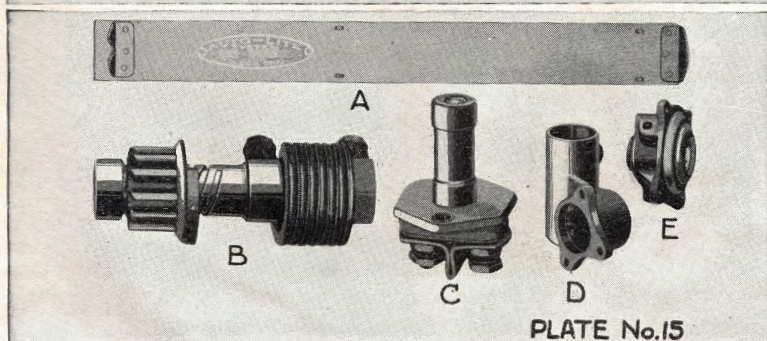
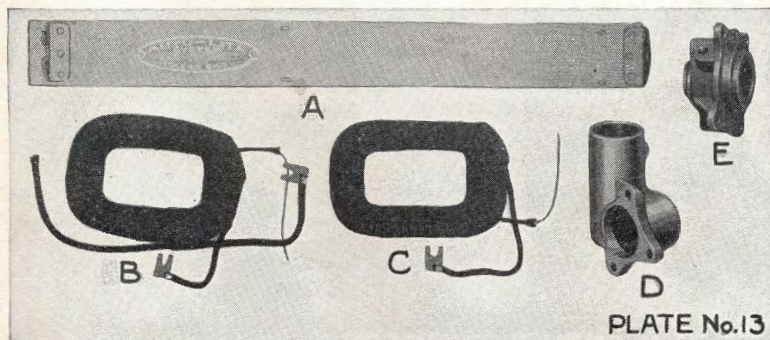
AUTO-LITE SYSTEM



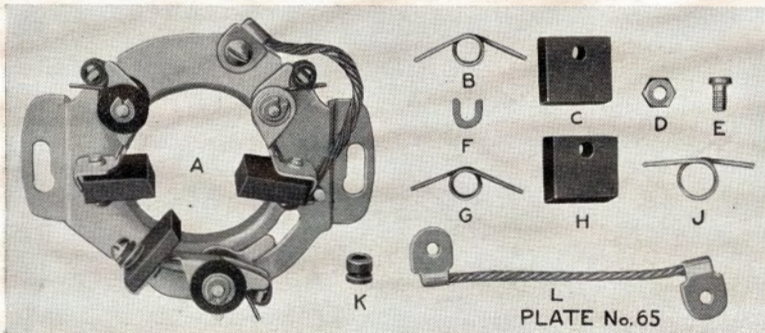
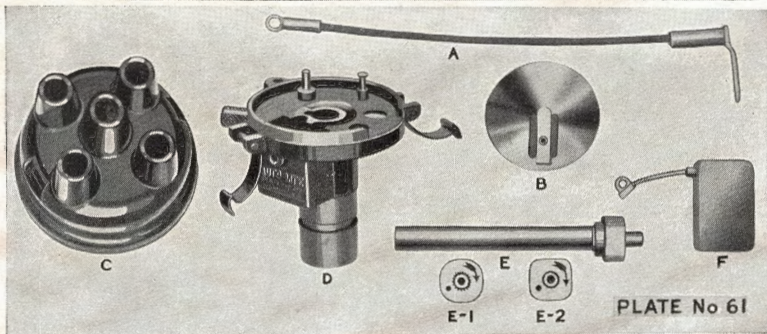
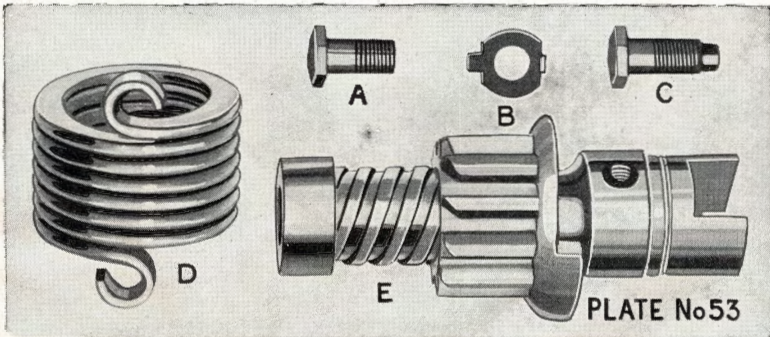
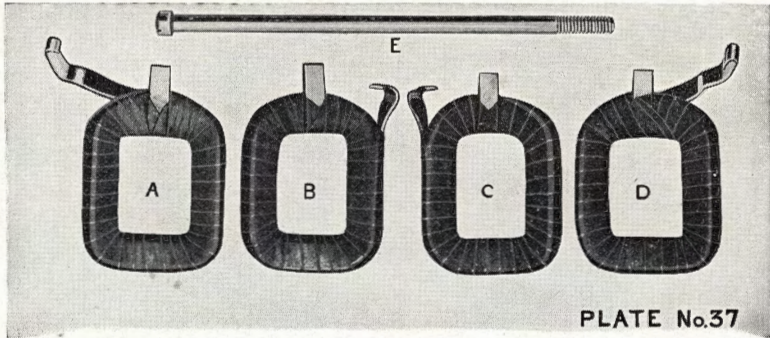
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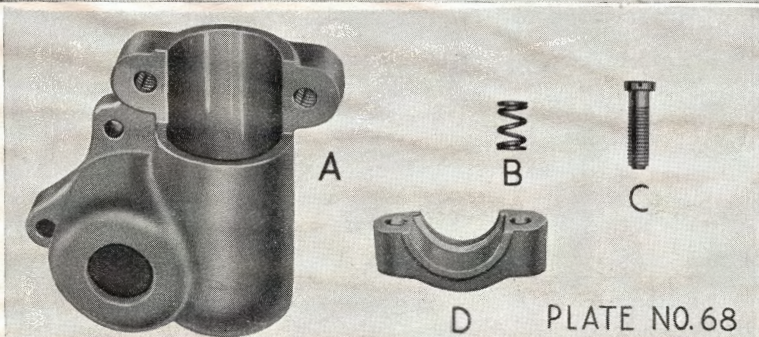
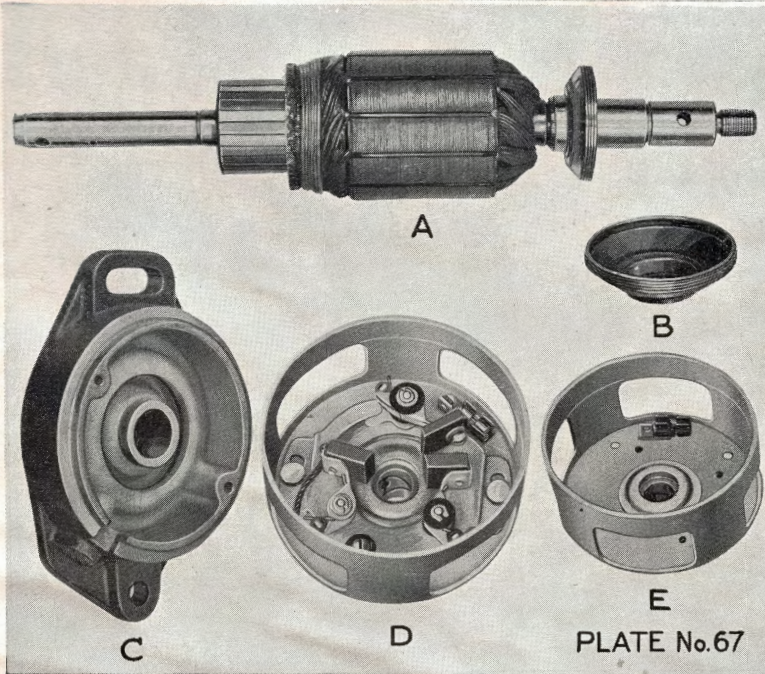
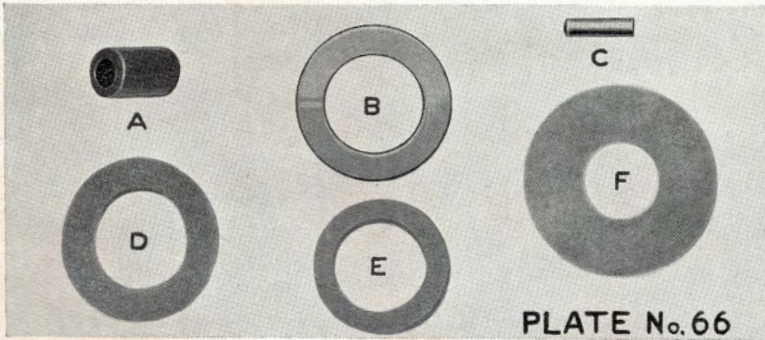


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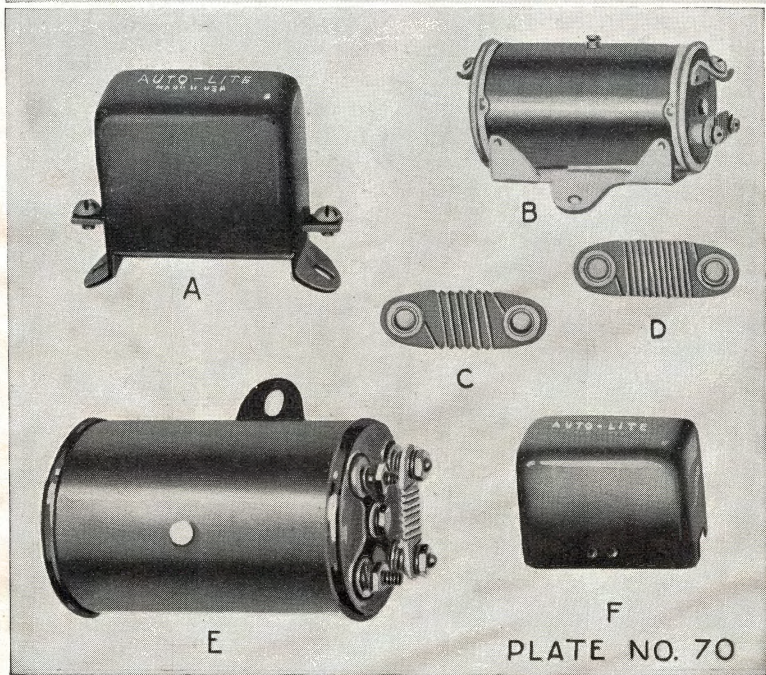
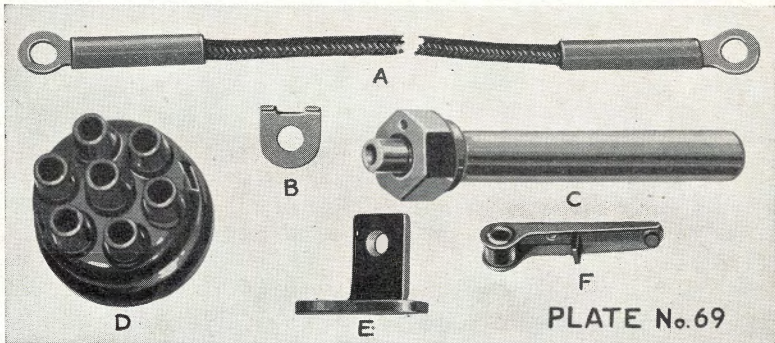




AUTO-LITE SYSTEM



AUTO-LITE SYSTEM



## TO THE CAR DEALER AND OWNER

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In presenting this Parts List to the car dealer and owner we have listed such parts and assemblies as can be used in making the easier repairs and replacements. Prices have not been shown as these are always subject to revision and in a pamphlet of this kind cannot be kept up to date. Current prices for any parts wanted can always be obtained by communicating with either the nearest Official Auto-Lite Service Station or the home office care of the Service Department.

As a word of warning to car owners we desire to bring to your attention the fact that the electrical equipment of any car is one of its most delicate parts and, unlike the mechanical parts, may not give satisfactory operation if repaired by one unfamiliar with the electrical principles involved in the construction of the various units. Electrical repairs are a specialty and should be made by one having had special technical training along these lines. In order that all dealers and owners may have available such technical repairs we have appointed Official Auto-Lite Service Stations throughout the world, who not only carry an adequate stock of genuine parts but who are specialists in electrical repairs and are always kept informed of the latest technical information by the factory. We urge that all avail themselves of this service which includes expert advice as to the care of the equipment as well as the making of any repairs necessary.

We publish quarterly a list of our Official Service Stations and a copy can be had by any Auto-Lite user upon request.

Electrical parts of an automobile are necessarily small and subject to greater vibration than any other electrical apparatus manufactured. For this reason it is important that all parts be checked periodically to be sure they are in proper working order. This can best be done by an Official Auto-Lite Service Station.

We also desire to bring to your attention the importance of using only genuine factory parts in effecting repairs. Factory parts are built of material best suited for the work they have to do, are held within very close limits as to dimensions in manufacture and are subject to rigid inspection. Altho the market affords many imitation parts at a cheaper price these are made by unscrupulous concerns whose main object is to sell parts and who have no reputation to maintain. Therefore, it is poor economy to buy a cheaper part at the possible cost to the life of the unit rather than a genuine factory made part with the equipment manufacturer's reputation and guarantee back of it.

It is our constant desire that each and every owner of Auto-Lite apparatus receive that long continuous service which we know it is capable of giving, therefore, should any difficulty be experienced a visit to our nearest Service Station or correspondence with the factory is cordially invited.

