

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAL-4329 GENERATOR PARTS LIST

GAL-4329

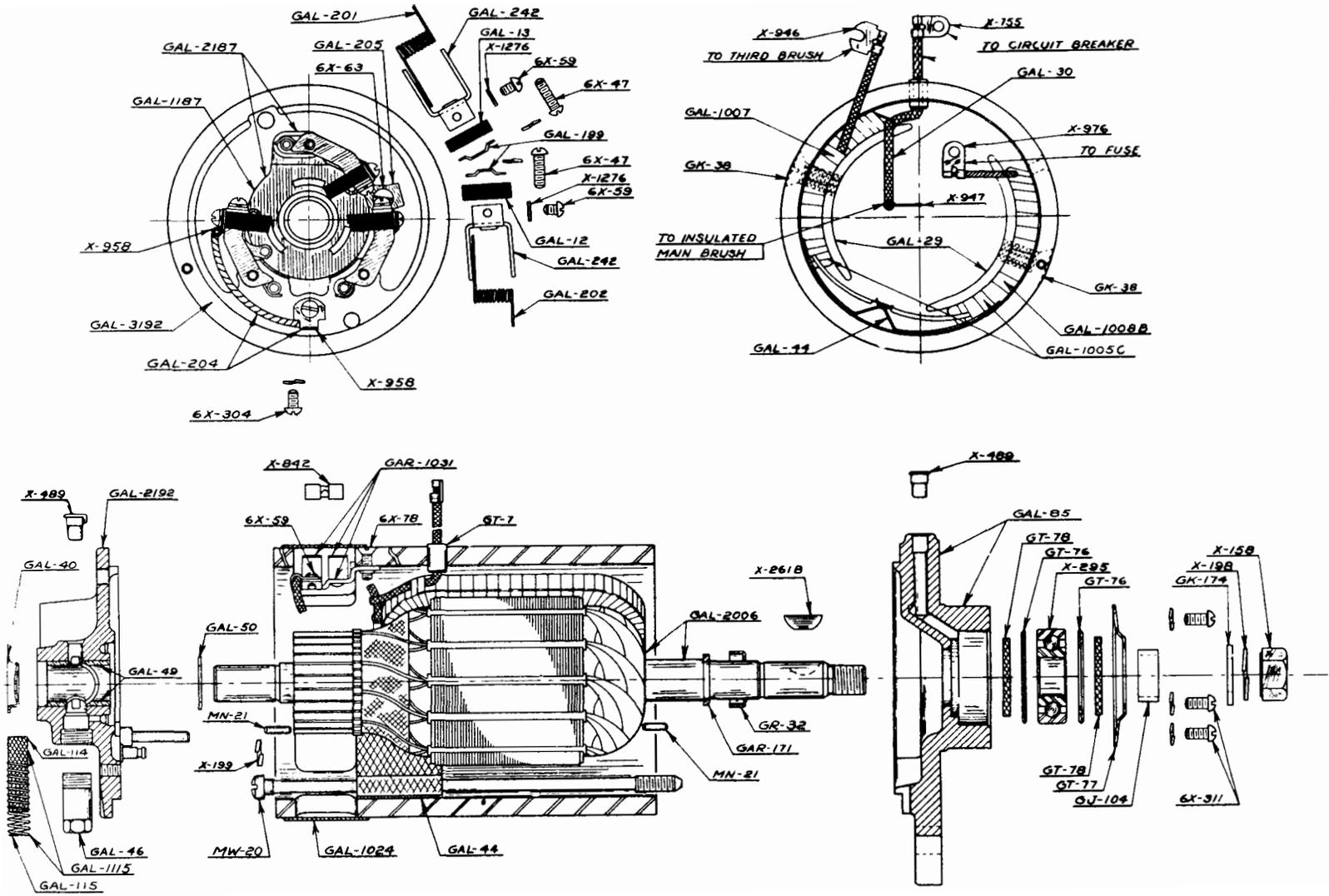
Frame & Field Assembly & Parts Used With						Armature Assembly & Parts Used With							
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
(GAL-2138)	1	Frame & Field Assy.					GAL-50	1	Thrust Washer				
GAL-29	2	Pole Piece					GAL-2006	1	Armature Assembly				
GAL-44	1	Field Connection Ins.					GAR-171	1	Snap Ring				
GAL-1005C	1	Field Coil Assy. - Comp.					GJ-104	1	Armature Shaft Spacer				
GAL-1007	1	Field Coil Assy.-Left					GK-174	1	1/2 Plain Washer				
GAL-30	1	C.B. Lead Assy.					GR-32	1	Felt Washer Retainer				
X-947	1	Terminal					X-158	1	1/2-20 Hex. Nut				
X-946	1	Terminal					X-198	1	1/2 Lock Washer				
GAL-1008B	1	Field Coil Assy.-Right					X-261B	1	#6 Woodruff Key - Hardened				
X-976	1	Terminal					<u>Drive End Head Assembly & Parts Used With</u>						
GK-38	2	Pole Piece Screw					GAL-1085	1	Drive End Head Assy.				
GT-7	1	Insulating Tube					GAL-85	1	Drive End Head				
MN-21	2	Dowel Pin					GT-76	2	Felt Washer Retainer				
X-755	1	Terminal					GT-77	1	Felt Retain'g Plate				
GAR-1031	1	Fuse Holder					GT-78	2	Felt Washer				
MW-20	2	Frame Screw					X-196	3	#10 Lock Washer				
8X-59	1	#8-32x3/16 Rd. Hd. Screw					X-295	1	Ball Brg. - S.A.E. #203				
8X-78	1	#8-32x9/16 Flat Hd. Screw					8X-311	3	#10-32x3/8 Rd. Hd. Screw				
X-195	1	#8 Lock Washer					X-489	1	1/4 Oiler - Press in Type				
X-199	2	1/4 Lock Washer					<u>Miscellaneous Parts</u>						
X-842	1	Fuse - 5 Ampere					CB-4021	1	Circuit Breaker Assy.				
<u>Comm. End Plate Assembly & Parts Used With</u>						CB-123	1	Armature Spring					
GAL-46	1	Grease Cup					CB-160	1	C.B. Cover				
GAL-1115	1	Wick & Spring Assy.					PX-55	1	#10-32x3/16 Bdg. Hd. Sc.				
GAL-114	1	Wick					X-196	3	#10 Lock Washer				
GAL-115	1	Wick Spring					8X-312	2	#10-32xl/4 Rd. Hd. Screw				
(GAL-3192)	1	Comm. End Plate Assy.					GAL-1024	1	Head Band Assembly				
GAL-12	2	Brush - Main					X-196	2	#10 Lock Washer				
GAL-40	1	Bearing Cover					8X-321	2	#10-32x5/16 Rd. Hd. Screw				
GAL-199	2	Brush Screw Block					X-715	1	#10-32xl 1/4 Rd. Hd. Screw				
GAL-201	1	Brush Spring					8X-794	1	#10-32 Square Nut				
GAL-202	1	Brush Spring							1	2	3	4	5
GAL-204	1	Ground Connector Assy.					(Issued 8-13-30)						
X-958	2	Terminal					(R-1-28-36)						
GAL-205	2	3rd Brush Plate Retain'g Spring											
GAL-242	2	Brush Holder											
GAL-2187	1	3rd Brush Holder Plate Assembly											
GAL-13	1	Brush - 3rd											
GAL-199	1	Brush Screw Block											
GAL-201	1	Brush Spring											
GAL-242	1	Brush Holder											
GAL-1187	1	3rd Brush Holder Plate Part Assembly											
6X-47	1	#8-32x9/16 Rd. Hd. Sc.											
6X-59	1	#8-32x3/16 Rd. Hd. Sc.											
X-195	1	#8 Lock Washer											
X-1276	1	#8 Skpf. Washer											
GAL-2192	1	Comm. End Plate Part Assembly											
GAL-49	1	Bronze Bearing											
8X-47	2	#8-32x9/16 Rd. Hd. Sc.											
8X-59	2	#8-32x3/16 Rd. Hd. Sc.											
8X-63	2	#8-32x3/8 Flat Hd. Sc.											
X-195	4	#8 Lock Washer											
8X-304	1	#8-32x5/16 Rd. Hd. Sc.											
X-1276	1	#8 Skpf. Washer											
X-489	1	1/4 Oiler - Press in Type											
		1	2	3	4	5							

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File in
Equipment & Parts Lists Binder

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GAL-4329 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAL-4336 GENERATOR PARTS LIST

GAL-4336

<u>Frame & Field Assembly & Parts Used With</u>					
Part No.	No. Used	Name of Part			
			1	2	3 4 5
(GAL-2117)	1	Frame & Field Assembly			
GAL-29	2	Pole Piece			
GAL-44	1	Field Connection Ins.			
GAL-1005A	1	FIELD COIL ASSY.- Comp.			
GAL-1007A	1	Field Coil Assy.-Left			
GAL-76	1	C.B. Lead Assy.			
X-755	1	Terminal			
X-947	1	Terminal			
X-946	1	Terminal			
GAL-1008A	1	Field Coil Assy.-Right			
X-959	1	Terminal			
GAR-211	1	Insulating Bushing			
GK-38	2	Pole Piece Screw			
MN-21	2	Dowel Pin			
8X-140	1	#6-32 Hex. Nut			
X-194	1	#6 Lock Washer			
8X-1008	1	#6-32x9/16 Rd. Hd. Screw			
MW-20	2	Frame Screw			
X-199	2	1/4 Lock Washer			
<u>Comm. End Plate Assembly & Parts Used With</u>					
GAL-46	1	Grease Cup			
GAL-1115	1	Wick & Spring Assembly			
GAL-114	1	Wick			
GAL-115	1	Wick Spring			
(GAL-3207)	1	Comm. End Plate Assembly			
GAL-121	2	Brush - Main			
GAL-199	2	Brush Screw Block			
GAL-201	1	Brush Spring			
GAL-202	1	Brush Spring			
GAL-204	1	Ground Connector Assy.			
X-958	2	Terminal			
GAL-205	2	3rd Brush Plate Retain'g Spring			
GAL-242	2	Brush Holder			
GAL-2187	1	3rd Brush Holder Plate Assembly			
GAL-131	1	Brush - Third			
GAL-199	1	Brush Screw Block			
GAL-201	1	Brush Spring			
GAL-242	1	Brush Holder			
GAL-1187	1	3rd Brush Holder Plate Part Assembly			
8X-47	1	#8-32x9/16 Rd. Hd. Sc.			
8X-59	1	#8-32x3/16 Rd. Hd. Sc.			
X-195	1	#8 Lock Washer			
X-1276	1	#8 Skpf. Washer			
GAL-2207	1	Comm. End Plate Part Assy.			
GAL-49	1	ABSORBENT BRONZE BRG.			
8X-47	2	#8-32x9/16 Rd. Hd. Screw			
8X-59	2	#8-32x3/16 Rd. Hd. Screw			
8X-63	2	#8-32x3/8 Flat Hd. Screw			
X-195	4	#8 Lock Washer			
8X-304	1	#8-32x5/16 Rd. Hd. Screw			
X-1276	1	#8 Skpf. Washer			
X-489	1	1/4 Oiler - Press in Type			
			1	2	3 4 5

<u>Armature Assembly & Parts Used With</u>					
Part No.	No. Used	Name of Part			
			1	2	3 4 5
GAL-50	1	Thrust Washer			
GAL-2066	1	ARMATURE ASSEMBLY			
X-263	1	#8 Woodruff Key			
X-1057	1	1/2-20 Castellated Nut			
<u>Drive End Head Assembly & Parts Used With</u>					
GAL-1118	1	Drive End Head Assembly			
GAL-59	1	BRONZE BEARING			
GT-124	1	Felt Wick			
X-1041	1	#13x5/16 Escutcheon Pin			
<u>Dist. Mounting Housing & Parts Used With</u>					
GAG-58	1	Dist. Mounting Housing Clamp			
GE-21	1	Dist. Gear - Driver			
GG-133	1	Dist. Drive Rivet			
GJ-170	1	Felt Washer			
GJ-171	1	Felt Washer Retainer			
GT-121B	1	Dist. Mounting Housing			
8X-53	1	#8-32x5/8 Rd. Hd. Screw			
8X-141	1	#8-32 Hex. Nut			
X-380	1	1/8 Grease Cup			
X-544	3	#10 Lock Washer			
8X-900	3	#10-32x7/8 Fill. Hd. Screw			
<u>Miscellaneous Parts</u>					
GAL-1024	1	Head Band Assembly			
X-196	2	#10 Lock Washer			
X-199	2	1/4 Lock Washer			
8X-321	2	#10-32x5/16 Rd. Hd. Screw			
X-715	1	#10-32x1 1/4 Rd. Hd. Screw			
8X-794	1	#10-32 Square Nut			
X-877	2	1/4-20x5/16 Fill. Hd. Screw			
			1	2	3 4 5

(Issued 5-21-40)

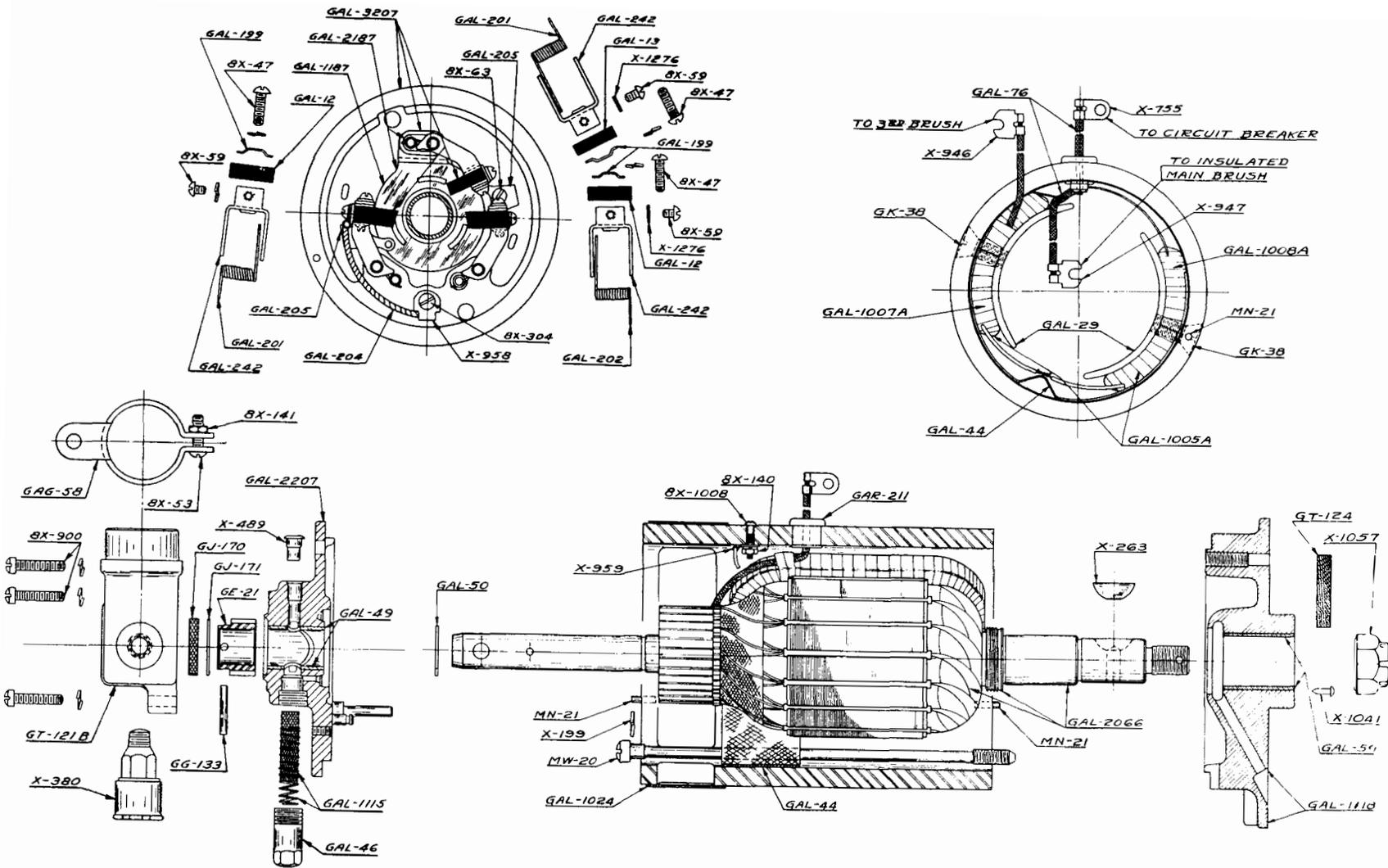
† Service BRUSH SET GAL-2012.

UNIT	APPLICATION
GAL-4336	Gray Marine

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Equipment & Parts List Binder

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GAL-4336 GENERATOR ILLUSTRATION

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAL-4340 GENERATOR PARTS LIST

GAL-4340

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
(GAL-3117)	1	1 2 3 4 5 Frame & Field Assy.
GAL-29	2	Pole Piece
GAL-44	1	Field Connection Ins.
GAL-2005B	1	Field Coil Assy. - Comp.
GAL-1007C	1	Field Coil Assy.-Left
GAL-222	1	C.B. Lead Assy.
X-755	1	Terminal
X-947	1	Terminal
X-946	1	Terminal
GAL-1008A	1	Field Coil Assy.-Right
X-959	1	Terminal
GAR-211	1	Insulating Bushing
GK-38	2	Pole Piece Screw
MN-21	2	Dowel Pin
SX-140	1	#6-32 Hex. Nut
X-194	1	#6 Lock Washer
SX-1008	1	#6-32x9/16 Rd. Hd. Sc.
MW-20	2	Frame Screw
X-199	2	1/4 Lock Washer

Comm. End Plate Assembly & Parts Used With

GAL-46	1	Grease Cup
GAL-1115	1	Wick & Spring Assy.
GAL-114	1	Wick
GAL-115	1	Wick Spring
(GAL-3209)	1	Comm. End Plate Assy.
GAL-121	2	Brush - Main
GAL-199	2	Brush Screw Block
GAL-201	1	Brush Spring
GAL-202	1	Brush Spring
GAL-204	1	Ground Connector Assy.
X-958	2	Terminal
GAL-205	2	3rd Brush Plate Retain'g Spring
GAL-242	2	Brush Holder
GAL-2209	1	Comm. End Plate Part Assy.
GAL-49	1	Bronze Brg.
GAL-2210	1	3rd Brush Holder Plate Assembly
GAL-131	1	Brush - 3rd
GAL-199	1	Brush Screw Block
GAL-202	1	Brush Spring
GAL-242	1	Brush Holder
GAL-1210	1	3rd Brush Holder Plate Part Assembly
6X-47	1	#8-32x9/16 Rd. Hd. Sc.
6X-59	1	#8-32x3/16 Rd. Hd. Sc.
X-195	1	#8 Lock Washer
X-1276	1	#8 Skpf. Washer
6X-47	2	#8-32x9/16 Rd. Hd. Screw
6X-59	2	#8-32x3/16 Rd. Hd. Screw
6X-63	2	#8-32x3/8 Flat Hd. Screw
X-195	4	#8 Lock Washer
6X-304	1	#8-32x5/16 Rd. Hd. Screw
X-1276	1	#8 Skpf. Washer
X-489	1	1/4 Oiler - Press in Type
		1 2 3 4 5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part
GAL-50	1	1 2 3 4 5 Thrust Washer
GAL-3066	1	Armature Assembly
X-263	1	#8 Woodruff Key
X-1057	1	1/2-20 Castellated Nut

Drive End Head Assembly & Parts Used With

GAL-1118	1	Drive End Head Assy.
GAL-59	1	Bronze Bearing
GT-124	1	Felt Wick
X-1041	1	#13x5/16 Escutcheon Pin

Dist. Mounting Housing & Parts Used With

GAG-58	1	Dist. Mtg. Housing Clamp
GAL-98	1	Dist. Mtg. Housing
GE-21	1	Dist. Gear - Driver
GG-133	1	Dist. Drive Rivet
GJ-170	1	Felt Washer
GJ-171	1	Felt Washer Retainer
6X-53	1	#8-32x5/8 Rd. Hd. Screw
6X-141	1	#8-32 Hex. Nut
X-380	1	1/8 Grease Cup
X-544	3	#10 Lock Washer
6X-900	3	#10-32x7/8 Fill. Hd. Screw

Miscellaneous Parts

GAL-1024	1	Head Band Assembly
X-196	2	#10 Lock Washer
X-199	2	1/4 Lock Washer
6X-321	2	#10-32x5/16 Rd. Hd. Screw
X-715	1	#10-32x1 1/4 Rd. Hd. Screw
6X-794	1	#10-32 Square Nut
X-877	2	1/4-20x5/16 Fill. Hd. Screw
		1 2 3 4 5

(Issued 3-8-35)

(R-3-24-37)

† Service Brush Set GAL-2012.

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAM-4504, A, GENERATOR PARTS LIST
B

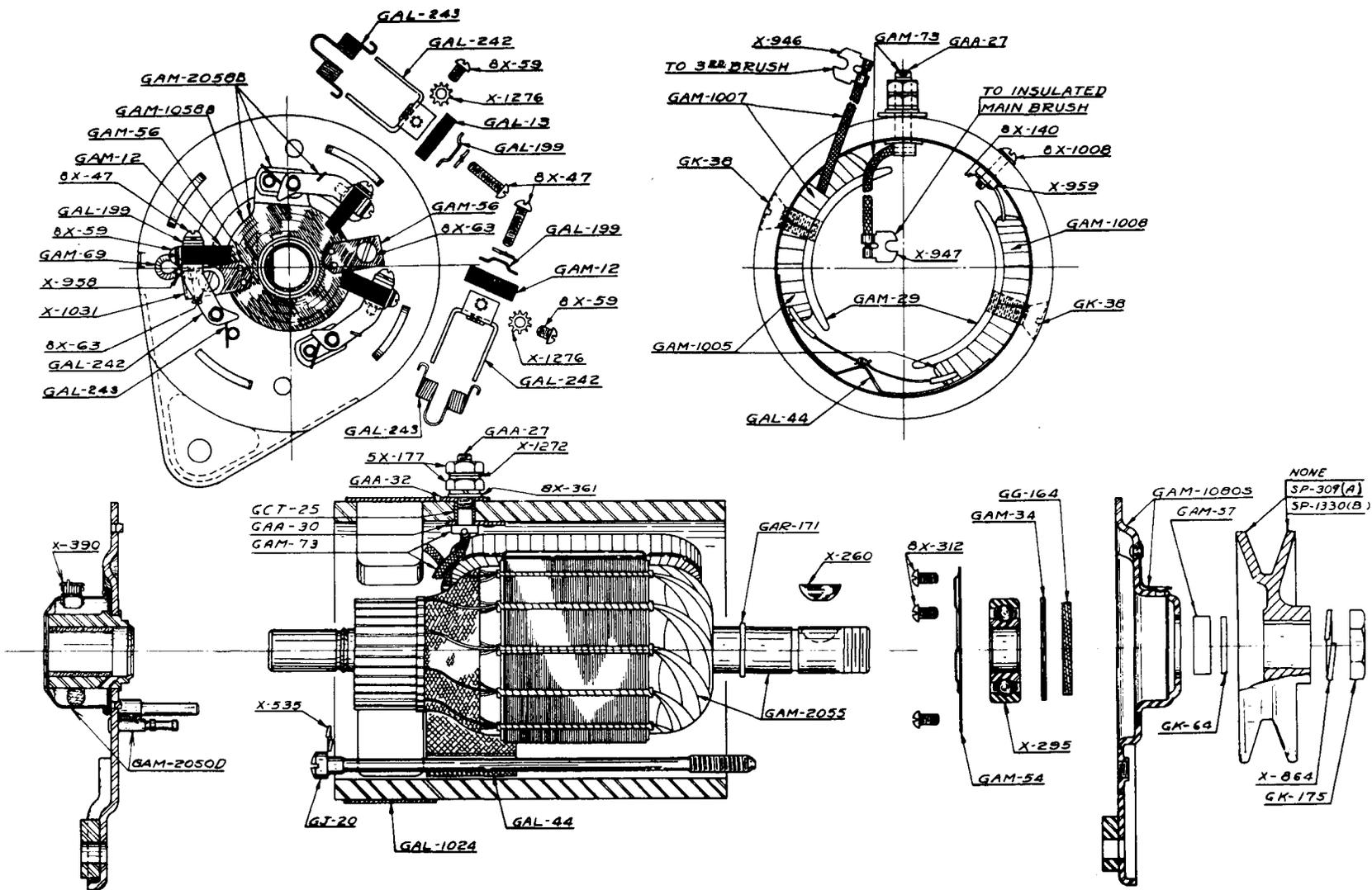
GAM-4504, A,
B

Frame & Field Assembly & Parts Used With						Armature Assembly & Parts Used With							
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
(GAM-2079)	1	Frame & Field Assy.					GAM-57	1	Armature Shaft Spacer				
GAA-30	1	Term. Post Bottom Ins.					GAM-2055	1	Armature Assy.				
GAA-32	1	Term. Post Top Ins.					GAR-171	1	Snap Ring				
GAL-44	1	Field Connection Ins.					GK-64	1	Snap Ring				
GAM-29	2	Pole Piece					GK-175	1	Armature Shaft Nut				
GAM-73	1	Terminal Lead Assy.					*	1	Drive Pulley				
GAA-27	1	Terminal Post					X-260	1	#5 Woodruff Key				
X-947	1	Terminal					X-864	1	.669 Lock Washer				
GAM-1005	1	Field Coil Assy. - Comp.					<u>Drive End Head Assy. & Parts Used With</u>						
GAM-1007	1	Field Coil Assy. -Left					GAM-1080	1	Drive End Head Assy.				
X-946	1	Terminal					GAM-34	1	Oil Guard - Corrugated				
GAM-1008	1	Field Coil Assy. -Right					GAM-54	1	Bearing Retainer				
X-959	1	Terminal					GAM-1080S	1	Drive End Head				
GCT-25	1	Insulating Bushing					GG-164	1	Felt Washer				
GK-38	2	Pole Piece Screw					X-295	1	Ball Brg. - S.A.E. #203				
6X-140	1	#6-32 Hex. Nut					6X-312	3	#10-32x1/4 Rd. Hd. Screw				
5X-177	1	#14-24 Hex. Nut					<u>Miscellaneous</u>						
X-193	1	#14 Lock Washer					GAL-1024	1	Head Band Assembly				
X-194	1	#6 Lock Washer					X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
8X-361	1	1/4 Plain Washer					6X-794	1	#10-32 Square Nut				
6X-1008	1	#6-32x9/16 Rd. Hd. Screw							1	2	3	4	5
GJ-20	2	Frame Screw					(Issued 11-15-38)						
5X-177	1	#14-24 Hex. Nut											
X-535	2	1/4 Lock Washer											
X-1272	1	1/4 Skpf. Washer											
<u>Comm. End Plate Assembly & Parts Used With</u>													
(GAM-3050B)	1	Comm. End Plate Assy.											
GAL-199	2	Brush Screw Block											
GAL-242	2	Brush Holder											
GAL-243	2	Brush Spring											
GAM-12†	2	Brush - Main											
GAM-56	2	3rd Brush Plate Retain- ing Spring											
GAM-69	1	Ground Connector Assy.											
X-958	1	Terminal											
X-1031	1	Terminal											
GAM-2050D	1	Comm. End Plate Part Assy.											
X-390	1	Oiler - 1/4 Hinged Top											
GAM-2058B	1	3rd Brush Holder Plate Assembly					Assembly No.		Drive Pulley				
GAL-13†	1	Brush - 3rd					GAM-4504		None				
GAL-199	1	Brush Screw Block					GAM-4504A		SP-309				
GAL-242	1	Brush Holder					GAM-4504B		SP-1330				
GAL-243	1	Brush Spring											
GAM-1058B	1	3rd Brush Holder Plate Part Assy.											
8X-47	1	#8-32x9/16 Rd. Hd. Screw											
8X-59	1	#8-32x3/16 Rd. Hd. Screw											
X-195	1	#8 Lock Washer											
X-1276	1	#8 Skpf. Washer											
6X-47	2	#8-32x9/16 Rd. Hd. Screw											
6X-59	2	#8-32x3/16 Rd. Hd. Screw											
6X-63	2	#8-32x3/8 Flat Hd. Screw											
X-195	3	#8 Lock Washer											
X-1276	1	#8 Skpf. Washer											
		1	2	3	4	5							

See table following parts list for part number applying to assembly wanted.

† Service Brush Set GAM-2012.

GAM-4504,A,B GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAP-4125 GENERATOR PARTS LIST

GAP-4125

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
(GAJ-2056)	1	Frame & Field Assy.				
GAJ-29	4	Pole Piece				
GAJ-1005	1	Field Coil Assy. - Comp.				
GAJ-1007	1	Field Coil Assy. - U.R.				
DA-66	1	Terminal				
GAG-21	1	C.B. Lead Assy.				
X-755	1	Terminal				
GAJ-1008	1	Field Coil - L.L.				
GAJ-1009	1	Field Coil - L.R.				
GAJ-1010	1	Field Coil Assy. - U.L.				
DA-66	1	Terminal				
GAJ-1056	1	Frame & Bracket Assy.				
GJ-41	1	Mounting Bracket				
X-331	4	#14-24x5/8 Ctsk. Hd. Screw				
X-1279	4	1/4 Skpf. Washer				
GK-108	1	Field Connection Ins.				
GT-7	1	Insulating Tube				
MZ-38	4	Pole Piece Screw				
X-755	1	Terminal				
<u>Comm. End Plate Assembly & Parts Used With</u>						
DA-22	1	Bearing Retaining Washer				
DA-60	1	Bearing Retaining Screw				
DJ-4	1	Comm. End Cap Cover				
DJ-9	1	Felt Washer				
DJ-10	1	End Cap Cover Gasket				
GAC-1012	2	Brush - Main				
GAG-1013	1	Brush - Third				
(GAG-2002A)	1	Comm. End Plate Assy.				
DJ-1016	1	Brush Holder Plate Assy.				
DJ-18	2	Brush Holder				
DJ-19	2	Brush Spring				
DJ-1016A	1	Brush Holder Plate Part Assy.				
8X-56	1	#8-32x7/16 Rd. Hd. Sc.				
X-195	2	#8 Lock Washer				
8X-304	1	#8-32x5/16 Rd. Hd. Sc.				
DK-41	2	Brush Holder Plate Screw				
DK-42	2	Spring				
GAG-2A	1	Comm. End Plate				
GAG-1017	1	3rd Brush Holder Plate Assembly				
DJ-18	1	Brush Holder				
DJ-19	1	Brush Spring				
GAG-1017A	1	3rd Brush Holder Plate Part Assy.				
8X-54	1	#8-32x1/2 Rd. Hd. Sc.				
X-195	1	#8 Lock Washer				
GX-3	1	Felt Guard				
8X-59	1	#8-32x3/16 Rd. Hd. Screw				
8X-119	4	#10-32x1/2 Fill. Hd. Screw				
X-195	1	#8 Lock Washer				
X-196	3	#10 Lock Washer				
X-199	1	1/4 Lock Washer				
X-295	1	Ball Brg. - S.A.E. #203				
8X-312	3	#10-32x1/4 Rd. Hd. Screw				
X-489	1	1/4 Oiler - Press in Type				
X-544	7	#10 Lock Washer				
X-842	1	Fuse - 5 Ampere				
8X-870	3	#10-32x5/16 Fill. Hd. Sc.				
		1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
DA-70	1	Armature Shaft Nut				
GAJ-83	1	Armature Shaft Sleeve				
GAP-2082	1	Armature Assembly				
<u>Drive End Head Assembly & Parts Used With</u>						
GAG-1052	1	Drive End Head Assy.				
GAG-52	1	Drive End Head				
GG-6	2	Felt Guard-with Oil Well				
GG-164	1	Felt Washer				
GK-176	1	Felt Washer Retainer				
8X-173	3	#10-32 Hex. Nut				
X-196	3	#10 Lock Washer				
X-295	1	Ball Brg. - S.A.E. #203				
8X-316	3	#10-32x3/4 Rd. Hd. Screw				
X-489	1	1/4 Oiler - Press in Type				
8X-119	4	#10-32x1/2 Fill. Hd. Screw				
X-544	4	#10 Lock Washer				
<u>Miscellaneous Parts</u>						
CB-4012	1	Circuit Breaker Assy.				
CB-123	1	Armature Spring				
CB-160	1	C. B. Cover				
PX-55	1	#10-32x3/16 Bdg. Hd. Sc.				
X-196	2	#10 Lock Washer				
8X-312	1	#10-32x1/4 Rd. Hd. Screw				
GAJ-1024	1	Head Band Assembly				
X-196	2	#10 Lock Washer				
8X-321	2	#10-32x5/16 Rd. Hd. Screw				
X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
8X-794	1	#10-32 Square Nut				
		1	2	3	4	5

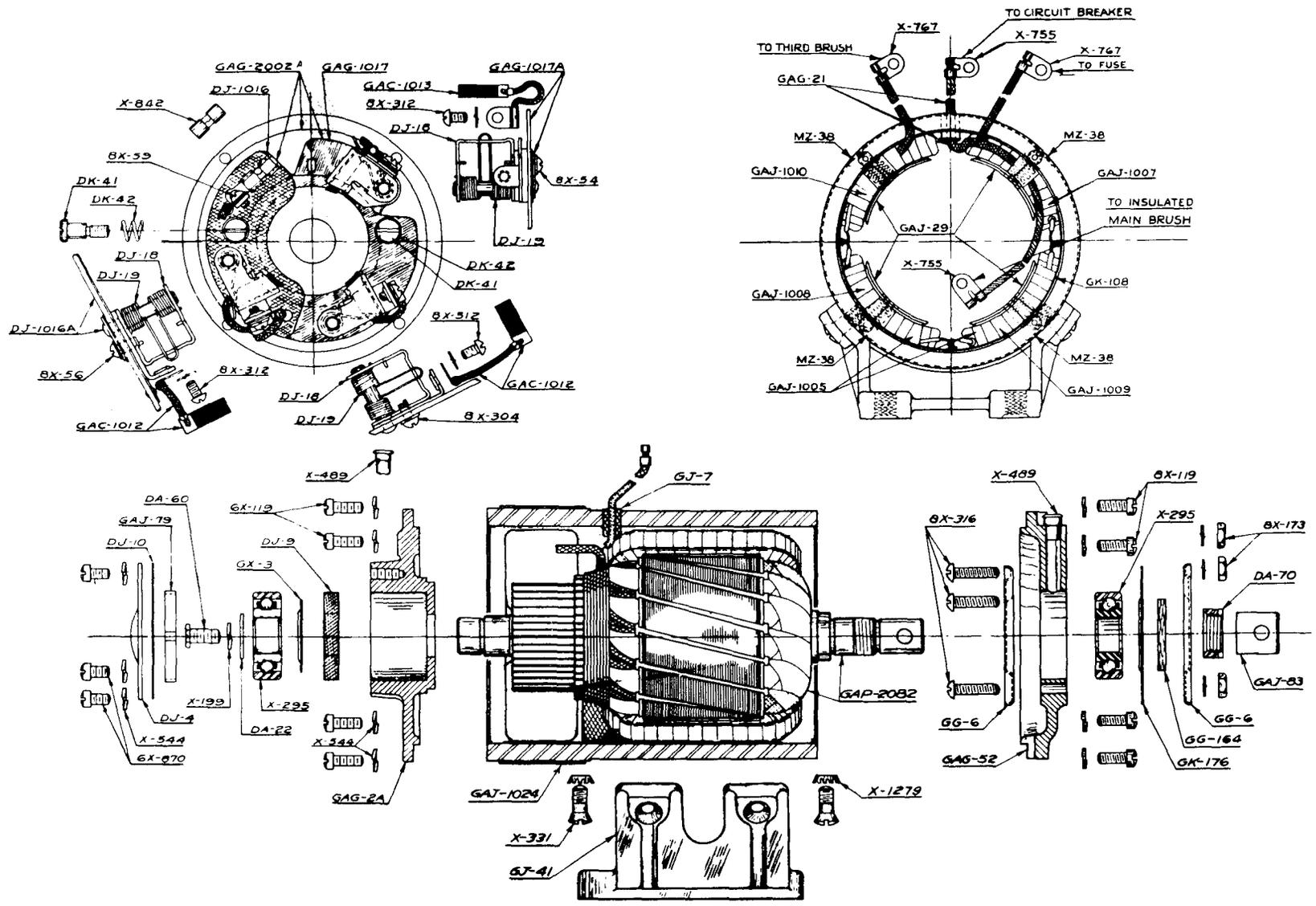
(Issued 5-8-30)
(R-2-10-36)

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GAP-4125 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAP-4135 GENERATOR PARTS LIST

GAP-4135

Frame & Field Assembly & Parts Used With					Armature Assembly & Parts Used With								
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
(GAJ-2001)	1	Frame & Field Assy.					GAJ-79	1	Bearing Spacer				
GAJ-29	4	Pole Piece					GAP-2098	1	Armature Assembly				
GAJ-1005	1	Field Coil Assy.-Comp.					GT-93	1	Oil Thrower - D.E.				
GAJ-1007	1	Field Coil Assy.-U.R.					X-258	1	#3 Woodruff Key				
DA-66	1	Terminal					X-358	1	1/2 Plain Steel Washer				
GAG-21	1	C.B. Lead Assy.					X-404	1	3/32x1 Cotter Pin				
X-755	1	Terminal					X-835	1	1/2-20 Slotted Nut				
GAJ-1008	1	Field Coil - L.L.					Drive End Head Assembly & Parts Used With						
GAJ-1009	1	Field Coil - L.R.					GAG-1107	1	Drive End Head Assy.				
GAJ-1010	1	Field Coil Assy.-U.L.					GAL-59	1	Bronze Bearing				
DA-66	1	Terminal					GT-97	1	Felt Wick				
GK-108	1	Field Connection Ins.					6X-119	4	#10-32x1/2 Fill. Hd. Sc.				
GT-7	1	Insulating Tube					X-544	4	#10 Lock Washer				
MZ-38	4	Pole Piece Screw					X-1040	1	#13x1/2 Escutcheon Pin				
X-755	1	Terminal					Miscellaneous Parts						
Comm. End Plate Assembly & Parts Used With						CB-4012	1	Circuit Breaker Assy.					
DA-22	1	Bearing Retaining Washer					CB-123	1	Armature Spring				
DA-60	1	Bearing Retaining Screw					CB-160	1	C.B. Cover				
DJ-4	1	Comm. End Cap Cover					PX-55	1	#10-32x3/16 Bdg. Hd. Sc.				
DJ-9	1	Felt Washer					X-196	2	#10 Lock Washer				
DJ-10	1	End Cap Cover Gasket					8X-312	1	#10-32x1/4 Rd. Hd. Sc.				
GAC-1012	2	Brush - Main					GY-1024	1	Head Band Assy.				
GAC-1013	1	Brush - 3rd					X-196	2	#10 Lock Washer				
(GAG-2002A)	1	Comm. End Plate Assy.					6X-321	2	#10-32x5/16 Rd. Hd. Screw				
DJ-1016	1	Brush Holder Plate Assy.					X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
DJ-18	2	Brush Holder					6X-794	1	#10-32 Square Nut				
DJ-19	2	Brush Spring							1	2	3	4	5
DJ-1016A	1	Brush Holder Plate Part Assy.					(Issued 6-1-32)						
2X-56	1	#8-32x7/16 Rd. Hd. Sc.					(R-7-8-36)						
X-195	2	#8 Lock Washer											
2X-304	1	#8-32x5/16 Rd. Hd. Sc.											
DK-41	2	Brush Holder Plate Screw											
DK-42	2	Spring											
GAG-2A	1	Comm. End Plate											
GAG-1017	1	3rd Brush Holder Plate Assembly											
DJ-18	1	Brush Holder											
DJ-19	1	Brush Spring											
GAG-1017A	1	3rd Brush Holder Plate Part Assy.											
2X-54	1	#8-32x1/2 Rd. Hd. Sc.											
X-195	1	#8 Lock Washer											
GX-3	1	Felt Guard											
6X-59	1	#8-32x3/16 Rd. Hd. Screw											
6X-119	4	#10-32x1/2 Fill. Hd. Screw											
X-195	1	#8 Lock Washer											
X-196	3	#10 Lock Washer											
X-199	1	1/4 Lock Washer											
X-295	1	Ball Brg. - S.A.E. #203											
6X-312	3	#10-32x1/4 Rd. Hd. Screw											
X-488	1	1/4 Oiler - Press in Elbow											
X-544	7	#10 Lock Washer											
X-844	1	Fuse - 7 1/2 Amp.											
6X-870	3	#10-32x5/16 Fill. Hd. Screw											
		1	2	3	4	5							

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"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAP-4140 GENERATOR PARTS LIST

GAP-4140

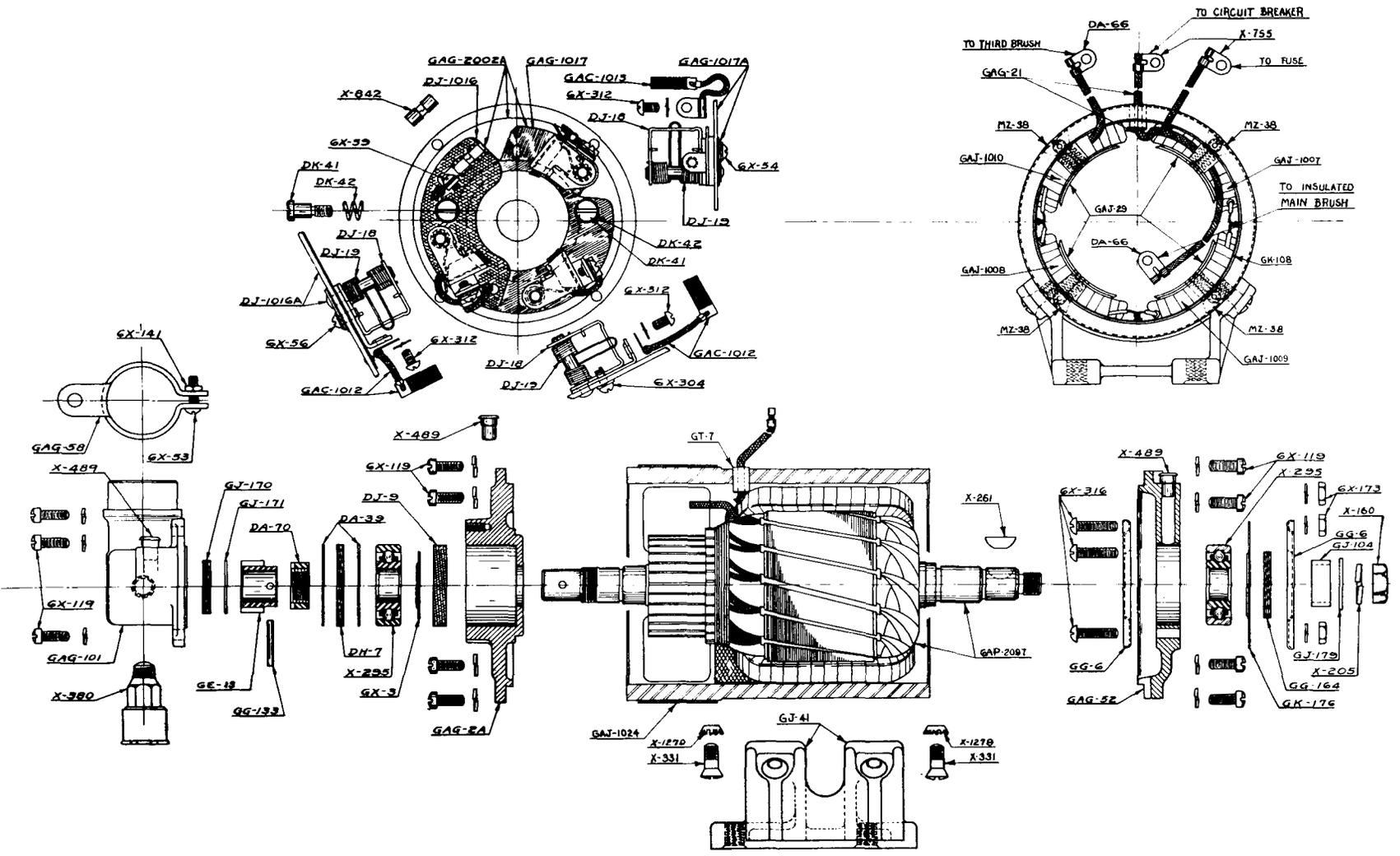
Frame & Field Assembly & Parts Used With						Armature Assembly & Parts Used With							
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
(GAJ-2056)	1	Frame & Field Assy.					GAP-2097	1	Armature Assembly				
GAJ-29	4	Pole Piece					GJ-104	1	Armature Shaft Spacer				
GAJ-1005	1	Field Coil Assy. - Comp.					GJ-179	1	7/16 Plain Washer				
GAJ-1007	1	Field Coil Assy.-U.R.					X-160	1	7/16-20 Hex. Nut				
DA-66	1	Terminal					X-205	1	7/16 Lock Washer				
GAG-21	1	C.B. Lead Assy.					X-261	1	#6 Woodruff Key				
X-755	1	Terminal					Drive End Head Assembly & Parts Used With						
GAJ-1008	1	Field Coil - L.L.					GAG-1052	1	Drive End Head Assy.				
GAJ-1009	1	Field Coil - L.R.					GAG-52	1	Drive End Head				
GAJ-1010	1	Field Coil Assy.-U.L.					GG-6	2	Felt Guard - with Oil Well				
DA-66	1	Terminal					GG-164	1	Felt Washer				
GAJ-1056	1	Frame & Bracket Assy.					GK-176	1	Felt Washer Retainer				
GJ-41	1	Mounting Bracket					6X-173	3	#10-32 Hex. Nut				
X-331	4	#14-24x5/8 Ctsk. Hd. Screw					X-196	3	#10 Lock Washer				
X-1279	4	1/4 Skpf. Washer					X-295	1	Ball Brg. - S.A.E. #203				
GK-108	1	Field Connection Ins.					6X-316	3	#10-32x3/4 Rd. Hd. Screw				
GT-7	1	Insulating Tube					X-489	1	1/4 Oiler - Press in Type				
MZ-38	4	Pole Piece Screw					6X-119	4	#10-32x1/2 Fill. Hd. Screw				
X-755	1	Terminal					X-544	4	#10 Lock Washer				
Comm. End Plate Assembly & Parts Used With						Dist. Mounting Housing & Parts Used With							
DA-39	2	Flat Oil Guard					GAG-58	1	Dist. Mounting Housing Clamp				
DA-70	1	Armature Shaft Nut					GAG-101	1	Dist. Mounting Housing				
DH-7	1	Felt Washer					GE-19	1	Dist. Gear - Driver				
DJ-9	1	Felt Washer					GG-133	1	Dist. Drive Rivet				
GAC-1012	2	Brush - Main					6X-53	1	#8-32x5/8 Rd. Hd. Screw				
GAC-1013	1	Brush - Third					6X-119	3	#10-32x1/2 Fill. Hd. Screw				
(GAG-2002A)	1	Comm. End Plate Assy.					6X-141	1	#8-32 Hex. Nut				
DJ-1016	1	Brush Holder Plate Assy.					X-380	1	1/8 Grease Cup				
DJ-18	2	Brush Holder					X-489	1	1/4 Oiler - Press in Type				
DJ-19	2	Brush Spring					X-544	3	#10 Lock Washer				
DJ-1016A	1	Brush Holder Plate Part Assy.					Miscellaneous Parts						
6X-56	1	#8-32x7/16 Rd. Hd. Sc.					CB-4012	1	Circuit Breaker Assy.				
X-195	2	#8 Lock Washer					CB-123	1	Armature Spring				
6X-304	1	#8-32x5/16 Rd. Hd. Sc.					CB-160S	1	C.B. Cover				
DK-41	2	Brush Holder Plate Screw					PX-55	1	#10-32x3/16 Bdg. Hd. Screw				
DK-42	2	Spring					X-196	2	#10 Lock Washer				
GAG-2A	1	Comm. End Plate					8X-312	1	#10-32x1/4 Rd. Hd. Screw				
GAG-1017	1	3rd Brush Holder Plate Assembly					GAJ-1024	1	Head Band Assembly				
DJ-18	1	Brush Holder					X-196	2	#10 Lock Washer				
DJ-19	1	Brush Spring					6X-321	2	#10-32x5/16 Rd. Hd. Screw				
GAG-1017A	1	3rd Brush Holder Plate Part Assy.					X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
6X-54	1	#8-32x1/2 Rd. Hd. Sc.					6X-794	1	#10-32 Square Nut				
X-195	1	#8 Lock Washer							1	2	3	4	5
GX-3	1	Felt Guard					(Issued 12-26-34)						
6X-59	1	#8-32x3/16 Rd. Hd. Screw					(R-12-10-36)						
6X-119	4	#10-32x1/2 Fill. Hd. Screw											
X-195	1	#8 Lock Washer											
X-196	3	#10 Lock Washer											
X-295	1	Ball Brg. - S.A.E. #203											
6X-312	3	#10-32x1/4 Rd. Hd. Screw											
X-489	1	1/4 Oiler - Press in Type											
X-544	4	#10 Lock Washer											
X-842	1	Fuse - 5 Ampere											
		1	2	3	4	5							

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GAP-4140 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAP-4142 GENERATOR PARTS LIST

GAP-4142

Frame & Field Assembly & Parts Used With					Armature Assembly & Parts Used With								
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
(GAJ-3099)	1	Frame & Field Assy.					GAP-3101	1	Armature Assembly				
GAJ-29	4	Pole Piece					GJ-104	1	Armature Shaft Spacer				
GAJ-2005	1	Field Coil Assy. - Comp.					GJ-179	1	7/16 Plain Washer				
GAJ-1007A	1	Field Coil Assy. - U.R.					X-160	1	7/16-20 Hex. Nut				
DA-66	1	Terminal					X-205	1	7/16 Lock Washer				
GAJ-1008	1	Field Coil - L.L.					X-261	1	#6 Woodruff Key				
GAJ-1009	1	Field Coil - L.R.					<u>Drive End Head Assembly & Parts Used With</u>						
GAJ-1010A	1	Field Coil Assy. - U.L.					GAG-1052	1	Drive End Head Assy.				
DA-66	1	Terminal					GAG-52	1	Drive End Head				
GAG-21	1	C.B. Lead Assy.					GG-6	2	Felt Guard - with Oil Well				
X-755	1	Terminal					GG-164	1	Felt Washer				
GK-108	1	Field Connection Ins.					GK-176	1	Felt Washer Retainer				
GT-7	1	Insulating Tube					8X-173	3	#10-32 Hex. Nut				
MZ-38	4	Pole Piece Screw					X-196	3	#10 Lock Washer				
X-755	1	Terminal					X-295	1	Ball Brg. - S.A.E. #203				
<u>Comm. End Plate Assembly & Parts Used With</u>					8X-316	3	#10-32x3/4 Rd. Hd. Screw						
DA-39	2	Flat Oil Guard					X-489	1	1/4 Oiler - Press in Type				
DA-70	1	Armature Shaft Nut					8X-119	4	#10-32x1/2 Fill. Hd. Screw				
DH-7	1	Felt Washer					X-544	4	#10 Lock Washer				
DJ-9	1	Felt Washer					<u>Dist. Mounting Housing & Parts Used With</u>						
GAC-1012	2	Brush - Main					GAG-58	1	Dist. Mounting Housing Clamp				
GAC-1013	1	Brush - Third					GAG-101	1	Dist. Mounting Housing				
(GAG-3002A)	1	Comm. End Plate Assy.					IG-86	1	Dist. Drive Rivet				
DJ-2016	1	Brush Holder Plate Assy.					IG-453	1	Dist. Gear - Driver				
DJ-18A	2	Brush Holder					8X-53	1	#8-32x5/8 Rd. Hd. Screw				
DJ-19	2	Brush Spring					8X-141	1	#8-32 Hex. Nut				
DJ-2016A	1	Brush Holder Plate Part Assy.					X-380	1	1/8 Grease Cup				
8X-56	1	#8-32x7/16 Rd. Hd. Sc.					X-489	1	1/4 Oiler - Press in Type				
X-195	2	#8 Lock Washer					<u>Miscellaneous Parts</u>						
8X-304	1	#8-32x5/16 Rd. Hd. Sc.					CB-4014	1	Circuit Breaker Assy.				
DK-41	2	Brush Holder Plate Screw					CB-123	1	Armature Spring				
DK-42	2	Spring					CB-160	1	C.B. Cover				
GAG-2A	1	Comm. End Plate					PX-55	1	#10-32x3/16 Bdg. Hd. Sc.				
GAG-2017	1	3rd Brush Holder Plate Assembly					X-196	2	#10 Lock Washer				
DJ-18A	1	Brush Holder					8X-312	1	#10-32x1/4 Rd. Hd. Sc.				
DJ-19	1	Brush Spring					GAG-1024	1	Head Band Assembly				
GAG-2017A	1	3rd Brush Holder Plate Part Assy.					X-196	2	#10 Lock Washer				
8X-54	1	#8-32x1/2 Rd. Hd. Sc.					8X-321	2	#10-32x5/16 Rd. Hd. Screw				
X-195	1	#8 Lock Washer					X-715	1	#10-32x1 1/4 Rd. Hd. Sc.				
GX-3	1	Felt Guard					8X-794	1	#10-32 Square Nut				
8X-59	1	#8-32x3/16 Rd. Hd. Screw							1	2	3	4	5
8X-119	7	#10-32x1/2 Fill. Hd. Screw					(Issued 5-4-36)						
X-195	1	#8 Lock Washer											
X-196	3	#10 Lock Washer											
X-295	1	Ball Brg. - S.A.E. #203											
8X-312	3	#10-32x1/4 Rd. Hd. Screw											
X-489	1	1/4 Oiler - Press in Type											
X-544	7	#10 Lock Washer											
X-842	1	Fuse - 5 Ampere											
		1	2	3	4	5							

NOTE:- Use GAC-2012 brush set in servicing this unit.

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"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAP-4157 GENERATOR PARTS LIST

GAP-4157

Frame & Field Assembly & Parts Used With					Armature Assembly & Parts Used With									
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part					
		1	2	3	4	5			1	2	3	4	5	
(GAJ-2001)	1	Frame & Field Assy.					GAG-1166	1	Oil Thrower					
GAJ-29	4	Pole Piece					GAP-2095	1	Armature Assembly					
GAJ-1005	1	Field Coil Assy. - Comp.					X-261	1	#6 Woodruff Key					
GAJ-1007	1	Field Coil Assy. - U.R.					Drive End Head Assembly & Parts Used With							
DA-66	1	Terminal					GAC-1165	1	Drive End Head Assy.					
GAG-21	1	C.B. Lead Assy.					GAG-165	1	Drive End Head					
X-755	1	Terminal					GAR-95	1	Felt Washer					
GAJ-1008	1	Field Coil - L.L.					GX-9	1	Drive End Packing Retainer					
GAJ-1009	1	Field Coil - L.R.					GX-10	1	Gasket					
GAJ-1010	1	Field Coil Assy. - U.L.					X-196	3	#10 Lock Washer					
DA-66	1	Terminal					8X-311	3	#10-32x3/8 Rd. Hd. Screw					
GK-108	1	Field Connection Ins.					X-378	1	Ball Brg. - S.A.E. #204 Oil Seal					
GT-7	1	Insulating Tube					8X-119	4	#10-32x1/2 Fill. Hd. Screw					
MZ-38	4	Pole Piece Screw					X-544	4	#10 Lock Washer					
X-755	1	Terminal					Dist. Mounting Housing & Parts Used With							
Comm. End Plate Assembly & Parts Used With						GAG-58	1	Dist. Mounting Housing Clamp						
DA-39	2	Flat Oil Guard					GAG-101B	1	Dist. Mounting Housing					
DA-70	1	Armature Shaft Nut					GE-25	1	Dist. Gear - Driver					
DH-7	1	Felt Washer					GG-133	1	Dist. Drive Rivet					
DJ-9	1	Felt Washer					8X-53	1	#8-32x5/8 Rd. Hd. Screw					
GAC-1012	2	Brush - Main					8X-141	1	#8-32 Hex. Nut					
GAC-1013	1	Brush - Third					X-380	1	1/8 Grease Cup					
GAG-2002A)	1	Comm. End Plate Assy.					X-489	1	1/4 Oiler - Press in Type					
DJ-1016	1	Brush Holder Plate Assy.					Miscellaneous Parts							
DJ-18	2	Brush Holder					CB-4012	1	Circuit Breaker Assy.					
DJ-19	2	Brush Spring					CB-123	1	Armature Spring					
DJ-1016A	1	Brush Holder Plate Part Assy.					CB-160	1	C.B. Cover					
8X-56	1	#8-32x7/16 Rd. Hd. Sc.					PX-55	1	#10-32x3/16 Bdg. Hd. Sc.					
X-195	2	#8 Lock Washer					X-196	2	#10 Lock Washer					
8X-304	1	#8-32x5/16 Rd. Hd. Sc.					8X-312	1	#10-32x1/4 Rd. Hd. Screw					
DK-41	2	Brush Holder Plate Screw					GY-1024	1	Head Band Assembly					
DK-42	2	Spring					X-196	2	#10 Lock Washer					
GAG-2A	1	Comm. End Plate					8X-321	2	#10-32x5/16 Rd. Hd. Screw					
GAG-1017	1	3rd Brush Holder Plate Assembly					X-715	1	#10-32x1 1/4 Rd. Hd. Screw					
DJ-18	1	Brush Holder					8X-794	1	#10-32 Square Nut					
DJ-19	1	Brush Spring							1	2	3	4	5	
GAG-1017A	1	3rd Brush Holder Plate Part Assy.					(Issued 5-4-36)							
8X-54	1	#8-32x1/2 Rd. Hd. Sc.												
X-195	1	#8 Lock Washer												
GJ-170	1	Felt Washer												
GJ-171	1	Felt Washer Retainer												
GX-3	1	Felt Guard												
8X-59	1	#8-32x3/16 Rd. Hd. Screw												
8X-119	7	#10-32x1/2 Fill. Hd. Screw												
X-195	1	#8 Lock Washer												
X-196	3	#10 Lock Washer												
X-295	1	Ball Brg. - S.A.E. #203												
8X-312	3	#10-32x1/4 Rd. Hd. Screw												
X-489	1	1/4 Oiler - Press in Type												
X-544	7	#10 Lock Washer												
X-842	1	Fuse - 5 Ampere												
		1	2	3	4	5								

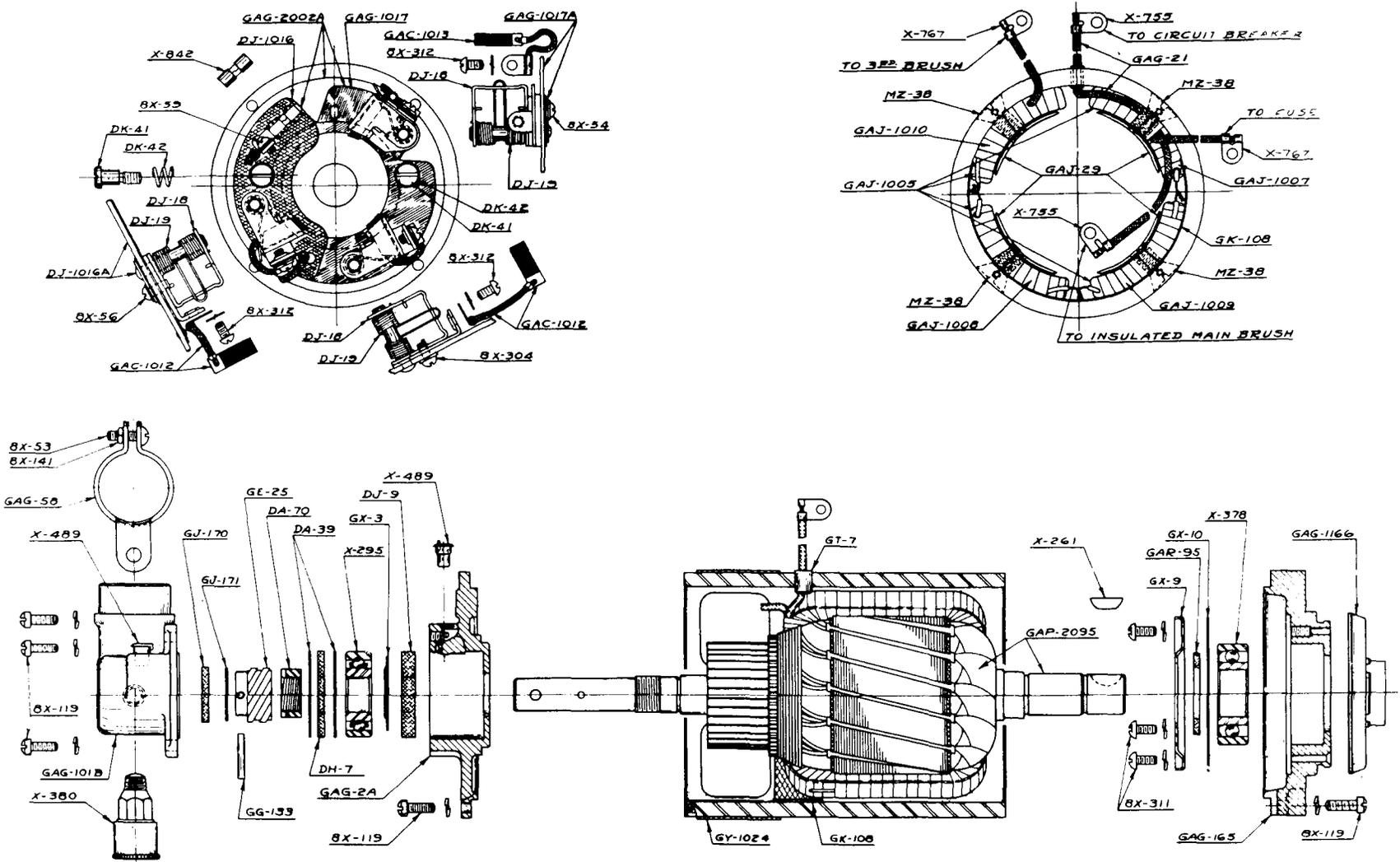
NOTE:- Use GAC-2012 brush set in servicing this unit.

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GAP-4157 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAP-4157 GENERATOR PARTS LIST

GAP-4157

Frame & Field Assembly & Parts Used With					Armature Assembly & Parts Used With								
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
(GAJ-2001)	1	Frame & Field Assy.					GAG-1166	1	Oil Thrower				
GAJ-29	4	Pole Piece					GAP-2095	1	Armature Assembly				
GAJ-1005	1	Field Coil Assy. - Comp.					X-261	1	#6 Woodruff Key				
GAJ-1007	1	Field Coil Assy. - U.R.					Drive End Head Assembly & Parts Used With						
DA-66	1	Terminal					GAC-1165	1	Drive End Head Assy.				
GAG-21	1	C.B. Lead Assy.					GAG-165	1	Drive End Head				
X-755	1	Terminal					GAR-95	1	Felt Washer				
GAJ-1008	1	Field Coil - L.L.					GX-9	1	Drive End Packing Retainer				
GAJ-1009	1	Field Coil - L.R.					GX-10	1	Gasket				
GAJ-1010	1	Field Coil Assy. - U.L.					X-196	3	#10 Lock Washer				
DA-66	1	Terminal					8X-311	3	#10-32x3/8 Rd. Hd. Screw				
GK-108	1	Field Connection Ins.					X-378	1	Ball Brg. - S.A.E. #204 Oil Seal				
GT-7	1	Insulating Tube					8X-119	4	#10-32x1/2 Fill. Hd. Screw				
MZ-38	4	Pole Piece Screw					X-544	4	#10 Lock Washer				
X-755	1	Terminal					Dist. Mounting Housing & Parts Used With						
Comm. End Plate Assembly & Parts Used With						GAG-58	1	Dist. Mounting Housing Clamp					
DA-39	2	Flat Oil Guard					GAG-101B	1	Dist. Mounting Housing				
DA-70	1	Armature Shaft Nut					GE-25	1	Dist. Gear - Driver				
DH-7	1	Felt Washer					GG-133	1	Dist. Drive Rivet				
DJ-9	1	Felt Washer					8X-53	1	#8-32x5/8 Rd. Hd. Screw				
GAC-1012	2	Brush - Main					8X-141	1	#8-32 Hex. Nut				
GAC-1013	1	Brush - Third					X-380	1	1/8 Grease Cup				
GAG-2002A)	1	Comm. End Plate Assy.					X-489	1	1/4 Oiler - Press in Type				
DJ-1016	1	Brush Holder Plate Assy.					Miscellaneous Parts						
DJ-18	2	Brush Holder					CB-4012	1	Circuit Breaker Assy.				
DJ-19	2	Brush Spring					CB-123	1	Armature Spring				
DJ-1016A	1	Brush Holder Plate Part Assy.					CB-160	1	C.B. Cover				
8X-56	1	#8-32x7/16 Rd. Hd. Sc.					PX-55	1	#10-32x3/16 Bdg. Hd. Sc.				
X-195	2	#8 Lock Washer					X-196	2	#10 Lock Washer				
8X-304	1	#8-32x5/16 Rd. Hd. Sc.					8X-312	1	#10-32x1/4 Rd. Hd. Screw				
DK-41	2	Brush Holder Plate Screw					GY-1024	1	Head Band Assembly				
DK-42	2	Spring					X-196	2	#10 Lock Washer				
GAG-2A	1	Comm. End Plate					8X-321	2	#10-32x5/16 Rd. Hd. Screw				
GAG-1017	1	3rd Brush Holder Plate Assembly					X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
DJ-18	1	Brush Holder					8X-794	1	#10-32 Square Nut				
DJ-19	1	Brush Spring							1	2	3	4	5
GAG-1017A	1	3rd Brush Holder Plate Part Assy.					(Issued 5-4-36)						
8X-54	1	#8-32x1/2 Rd. Hd. Sc.											
X-195	1	#8 Lock Washer											
GJ-170	1	Felt Washer											
GJ-171	1	Felt Washer Retainer											
GX-3	1	Felt Guard											
8X-59	1	#8-32x3/16 Rd. Hd. Screw											
8X-119	7	#10-32x1/2 Fill. Hd. Screw											
X-195	1	#8 Lock Washer											
X-196	3	#10 Lock Washer											
X-295	1	Ball Brg. - S.A.E. #203											
8X-312	3	#10-32x1/4 Rd. Hd. Screw											
X-489	1	1/4 Oiler - Press in Type											
X-544	7	#10 Lock Washer											
X-842	1	Fuse - 5 Ampere											
		1	2	3	4	5							

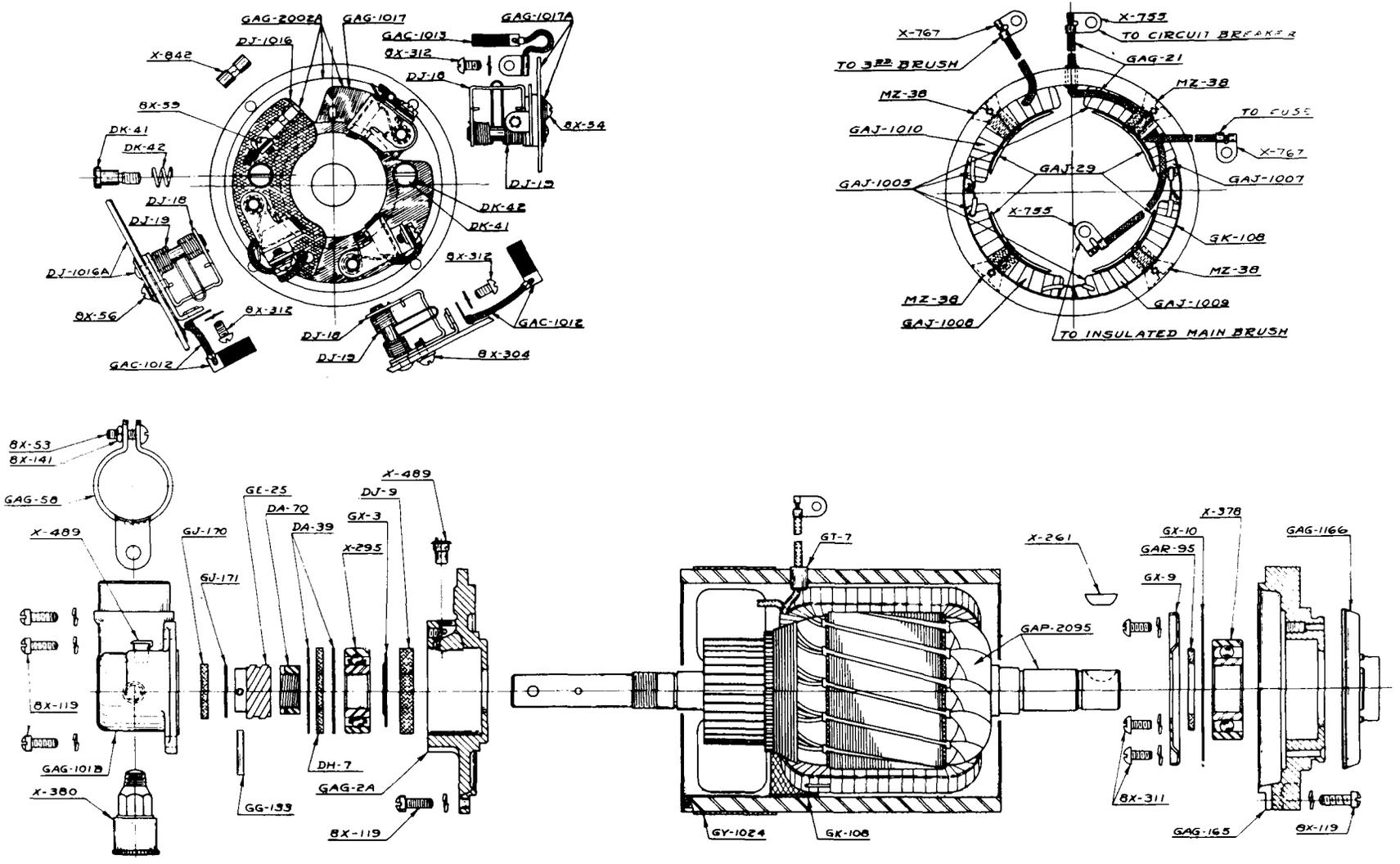
NOTE:- Use GAC-2012 brush set in servicing this unit.

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Equipment & Parts Lists Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

GAP-4157 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAP-4159 GENERATOR PARTS LIST

GAP-4159

Frame & Field Assy. & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
(GAJ-2001)	1	Frame & Field Assembly					
GAJ-29	4	Pole Piece					
GAJ-1005	1	FIELD COIL ASSY.- Comp.					
GAJ-1007	1	Field Coil Assy.-U.R.					
GAG-21	1	Lead Assembly					
X-755	1	Terminal					
X-767	1	Terminal					
GAJ-1008	1	Field Coil - L.L.					
GAJ-1009	1	Field Coil - L.R.					
GAJ-1010	1	Field Coil Assy.-U.L.					
X-767	1	Terminal					
GK-108	1	Field Connection Ins.					
GT-7	1	Insulating Tube					
MZ-38A	4	Pole Piece Screw					
X-755	1	Terminal					

Comm. End Plate Assy. & Parts Used With

DA-39	2	Flat Oil Guard					
DA-70	1	Armature Shaft Nut					
DH-7	1	Felt Washer					
DJ-9	1	Felt Washer					
GAC-1012†	2	Brush - Main					
GAC-1013†	1	Brush - Third					
(GAG-2002A)	1	Comm. End Plate Assembly					
DJ-1016	1	Brush Holder Plate Assy.					
DJ-18	2	Brush Holder					
DJ-19	2	Brush Spring					
DJ-1016A	1	Brush Holder Plate Part Assembly					
8X-56	1	#8-32x7/16 Rd. Hd. Sc.					
X-195	2	#8 Lock Washer					
8X-304	1	#8-32x5/16 Rd. Hd. Sc.					
DK-41	2	Brush Holder Plate Screw					
DK-42	2	Spring					
GAG-2A	1	Comm. End Plate					
GAG-1017	1	3rd Br. Holder Plate Assembly					
DJ-18	1	Brush Holder					
DJ-19A	1	Brush Spring					
GAG-1017A	1	3rd Br. Holder Plate Part Assembly					
8X-54	1	#8-32x1/2 Rd. Hd. Sc.					
X-195	1	#8 Lock Washer					
GX-3	1	Felt Guard					
8X-59	1	#8-32x3/16 Rd. Hd. Screw					
8X-119	7	#10-32x1/2 Fill. Hd. Screw					
X-195	1	#8 Lock Washer					
X-196	3	#10 Lock Washer					
X-295	1	BALL BEARING - S.A.E. #203					
8X-312	3	#10-32x1/4 Rd. Hd. Screw					
X-380	1	1/8 Grease Cup					
X-489	1	1/4 Oiler - Press in Type					
X-544	7	#10 Lock Washer					
X-842	1	Fuse - 5 Amp.					
			1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
GAG-1166	1	Oil Thrower					
GAP-2115	1	ARMATURE ASSEMBLY					
X-257	1	#2 Woodruff Key					
X-261	1	#6 Woodruff Key					

Drive End Head Assy. & Parts Used With

GAG-1165	1	Drive End Head Assembly					
GAG-165	1	Drive End Head					
GAR-95	1	Felt Washer					
GX-9	1	D. E. Packing Retainer					
GX-10	1	Gasket					
X-196	3	#10 Lock Washer					
8X-311	3	#10-32x3/8 Rd. Hd. Screw					
X-378	1	BALL BRG. - S.A.E. #204 Oil Seal					
8X-119	4	#10-32x1/2 Fill. Hd. Screw					
X-544	4	#10 Lock Washer					

Dist. Mounting Housing & Parts Used With

GAG-58	1	Dist. Mounting Housing Clamp					
GAG-101	1	Dist. Mounting Housing					
GE-25	1	Dist. Gear - Driver					
GG-133	1	Dist. Drive Rivet					
8X-53	1	#8-32x5/8 Rd. Hd. Screw					
8X-141	1	#8-32 Hex. Nut					
X-489	1	1/4 Oiler - Press in Type					

Miscellaneous Parts

CB-4012	1	CIRCUIT BREAKER ASSEMBLY					
CB-123	1	Armature Spring					
CB-160S	1	C. B. Cover					
PX-55	1	#10-32x3/16 Bdg. Hd. Sc.					
X-196	2	#10 Lock Washer					
8X-312	1	#10-32x1/4 Rd. Hd. Sc.					
GY-1024	1	Head Band Assembly					
X-196	2	#10 Lock Washer					
8X-321	2	#10-32x5/16 Rd. Hd. Screw					
X-715	1	#10-32x1 1/4 Rd. Hd. Screw					
8X-794	1	#10-32 Square Nut					
			1	2	3	4	5

(Issued 5-1-40)

† Service BRUSH SET GAC-2012.

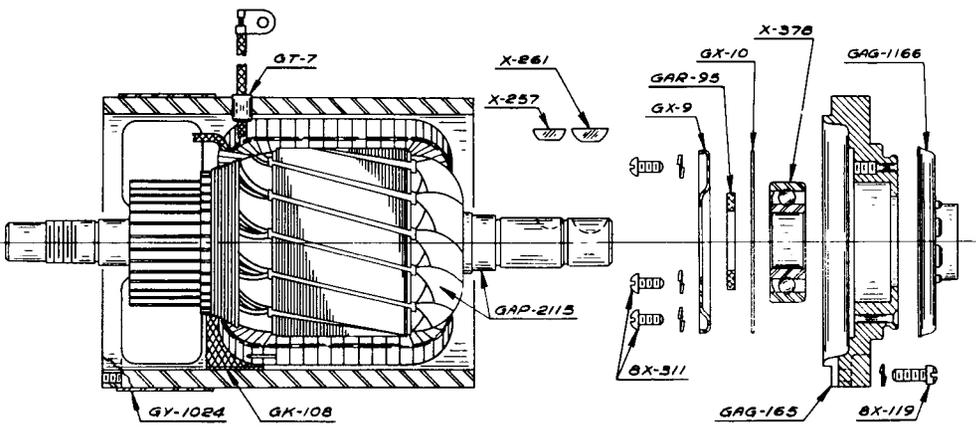
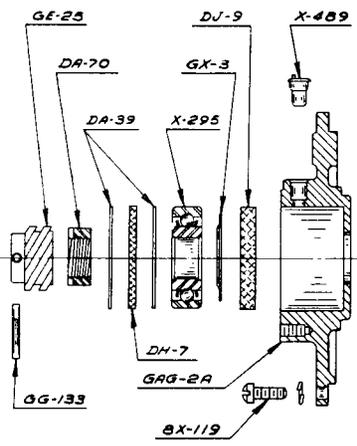
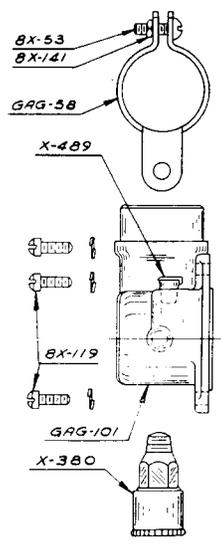
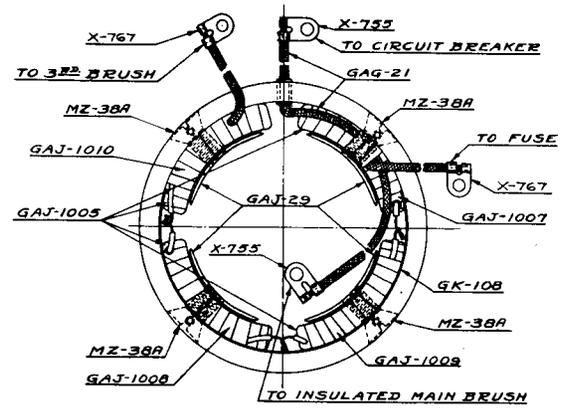
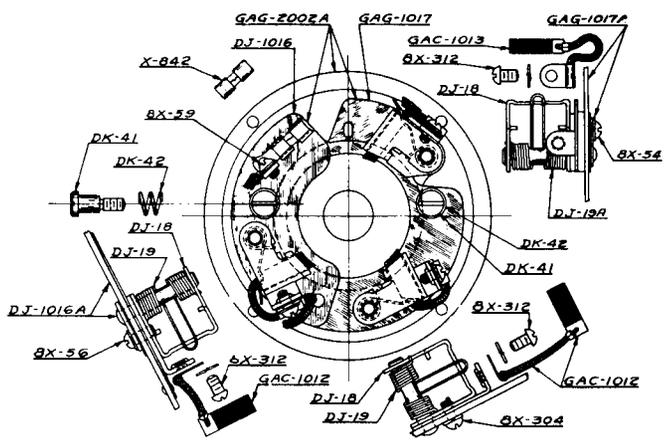
UNIT	APPLICATION
GAP-4159	Universal Motor

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“NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed.”

GAP-4159 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAR - COMMUTATOR END HEAD ASSEMBLIES

GAR-2217
GAR-2224

GAR-2217

GAR-2224

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GAR-2217	1	Comm. End Plate Assy.				
GAR-73	1	Oil Wick				
GAR-98A	1	Wick Cover				
GAR-1014B	1	Third Brush Plate Assy.				
GAR-219	1	Brush Arm				
GAR-221	1	Brush Spring				
GAR-1217A	1	Comm. End Plate Part Assy.				
GAR-219	2	Brush Arm				
GAR-221	2	Brush Spring				
GBF-79	1	Absorbent Bronze Brg.				
GBM-1012A	2	Brush - Main				
GBM-1013A	1	Brush - Third				
GBW-69	1	Gasket				
GBW-72	1	Oil Guard				
GBW-73	1	Oil Retaining Gasket				
GBW-1068	1	Comm. End Cap Cover				
GCJ-51	1	Third Brush Plate Rtg. Spg.				
12X-195	5	#8 Lockwasher				
8X-305	1	#8-32x1/4 Rd. Hd. Screw				
8X-311	1	#10-32x3/8 Rd. Hd. Screw				
8X-888	4	#8-32x5/16 Fill. Hd. Sc.				
		1	2	3	4	5

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GAR-2224	1	Comm. End Plate Assy.				
GAR-73	1	Oil Wick				
GAR-98A	1	Wick Cover				
GAR-1014B	1	Third Brush Plate Assy.				
GAR-219	1	Brush Arm				
GAR-221	1	Brush Spring				
GAR-1224A	1	Comm. End Plate Part Assy.				
GAR-219	2	Brush Arm				
GAR-221	2	Brush Spring				
GBF-79	1	Absorbent Bronze Brg.				
GBM-1012A	2	Brush - Main				
GBM-1013A	1	Brush - Third				
GBW-69	1	Gasket				
GBW-72	1	Oil Guard				
GBW-73	1	Oil Retaining Gasket				
GBW-1068	1	Comm. End Cap Cover				
GCJ-51	1	Third Brush Plate Rtg. Spg.				
12X-195	5	#8 Lockwasher				
8X-305	1	#8-32x1/4 Rd. Hd. Screw				
8X-311	1	#10-32x3/8 Rd. Hd. Screw				
8X-888	4	#8-32x5/16 Fill. Hd. Sc.				
		1	2	3	4	5

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAR TYPE GENERATORS

Page 1

Name of Part	GAR-4302	GAR-4316	GAR-4502	GAR-4513	GAR-4515
Illustration	Fig. 1	Fig. 2	Fig. 1	Fig. 2	Fig. 3
ARMATURE ASSEMBLY	GAR-2006	GAR-3178	GAR-2006	GAR-2178	GAR-2048
Arm. Shaft Lock Washer (D.E.)	X-1018	X-205	X-1018	X-205	
Arm. Shaft Nut (D.E.)	GY-3	X-160	GY-3	X-160	X-156
Arm. Shaft Spacer (C.E.)	GAR-39	GAR-39	GAR-39	GAR-39	
Arm. Shaft Spacer (D.E.)		GAL-142		GAL-142	
Armature Snap Ring	GAR-171	GAR-171	GAR-171	GAR-171	GAR-171
BEARING C. E.	X-295	X-295	X-295	X-295	X-295
BEARING D. E.	X-441	X-295	X-441	X-295	GT-94
Bearing Spacer					GAJ-79
BRUSH SET	GAL-2012	GAL-2012	GAL-2012	GAL-2012	GAL-2012
C. B. Mounting Lock Washer	X-196	X-196	X-196	X-196	X-196
C. B. Mounting Screw	8X-321	8X-321	8X-321	8X-321	8X-321
C. E. Cover	GAG-53	GAG-53	GAG-53	GAG-53	DJ-4
C. E. Cover Gasket	DJ-10	DJ-10	DJ-10	DJ-10	DJ-10
CIRCUIT BREAKER	CB-4014	CB-4014	CB-4014	CB-4014	CB-4012
Comm. End Plate Assy. *	(GAL-2206)	(GAL-3235)	(GAR-2206B)	(GAR-2206C)	(GAR-2206B)
Cotter Pin					X-404
Cover Holding Lock Washer	X-544	X-544	X-544	X-544	X-544
Cover Holding Screw	8X-870	8X-870	8X-870	8X-870	8X-870
Drive End Head Assembly †	GAL-1109A	GAM-1003	GAL-1109A	GAL-1003	GAL-1149
Escutcheon Pin					X-1040
Felt Washer	GR-35	GR-35	GR-35	GR-35	GR-35
Felt Washer Retainer	GR-32	GR-32	GR-32	GR-32	GR-32
Felt Wick					GT-97
FIELD COIL ASSEMBLY	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S
Frame & Field Assembly †	(GAR-2034)	(GAR-3057)	(GAR-2067)	(GAR-2179)	(GAR-2055)
Frame Screw	MW-20A	GAL-20	MW-20A	GAL-20	MW-20A
Frame Screw Lock Washer	X-199	X-199	X-199	X-199	X-199
Frame Screw Nut		X-152		X-152	
Fuse	X-842	X-842	X-842	X-842	X-842
Fuse Cover			GAL-225		GAL-225
Fuse Holder	GAR-1031	GAR-1031		GAR-1031	
Fuse Holder Mtg. Screw	8X-78	8X-78		8X-78	
Fuse Lead Screw	8X-59	8X-59		8X-59	
Fuse Lead Screw Lock Washer	X-195	X-195		X-195	
Head Band Assembly	GAL-1024	GAL-1024	GAL-1024	GAL-1024	GAL-1024
Head Band Nut	8X-794	8X-794	8X-794	8X-794	8X-794
Head Band Screw	X-715	X-715	X-715	X-715	X-715
Lock Spring Ring	GAA-69	GAA-69	GAA-69	GAA-69	GAA-69
Oiler	X-489	X-489	X-489	X-489	X-489
Oil Guard	DA-39	DA-39	DA-39	DA-39	DA-39
Oil Thrower	GG-238		GG-238		
Plain Washer	MF-80	X-360	MF-80	X-360	GK-174
Woodruff Key (D. E.)		X-261		X-261	X-263

* See pages 15 to 18 of this section for complete list of C.E. Plate sub parts.

† See pages 19 & 20 of this section for complete list of Drive End sub parts.

‡ See pages 21 to 23 of this section for complete list of Frame & Field sub parts.

UNIT	USED ON
GAR-4302	Brockway
GAR-4316	Gray Marine
GAR-4502	Brockway
GAR-4513	Brockway
GAR-4515	Diamond T

(Issued 5-2-41)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAR TYPE GENERATORS

Page 2

Name of Part	GAR-4518	GAR-4520	GAR-4521	GAR-4522	GAR-4524
Illustration	Fig. 4	Fig. 5	Fig. 4	Fig. 6	Fig. 6
ARMATURE ASSEMBLY	GAR-3239	GAR-3073	GAR-3239	GAR-2097	GAR-2097
Arm. Shaft Lock Washer (D.E.)	X-205		X-205		
Arm. Shaft Nut (C.E.)	DA-70		DA-70		
Arm. Shaft Nut (D.E.)	X-160		X-160	X-156	X-156
Arm. Shaft Spacer (D.E.)	GAL-142	GJ-104	GAL-142		
Armature Snap Ring	GAR-171	GAR-171	GAR-171	GAR-171	GAR-171
BEARING C. E.	X-295		X-295	X-295	X-295
BEARING D. E.	X-295	X-295	X-295	X-378	X-378
Bearing Spacer				GAJ-79	GAJ-79
BRUSH SET	GAL-2012	GAL-2012	GAL-2012	GAL-2012	GAL-2012
C. B. Mounting Lock Washer	X-196	X-196	X-196	X-196	X-196
C. B. Mounting Screw	8X-321	8X-321	8X-321	8X-321	8X-321
C. E. Cover	GW-19		GW-19	DJ-4	DJ-4
C. E. Cover Gasket				DJ-10	DJ-10
CIRCUIT BREAKER	CB-4014	CB-4014	CB-4014	CB-4012	CB-4012
Comm. End Plate Assy. *	(GAR-3235)	(GAR-3228A)	(GAR-2206B)	(GAR-2206B)	(GAR-2206B)
Cotter Pin				X-404	X-404
Cover Holding Lock Washer				X-544	X-544
Cover Holding Screw				8X-870	8X-870
Dowel Pin Screw	GAG-116		GAG-116		
Drive End Head Assembly †	GAM-1003	GAL-1063	GAM-1003	GAR-1096	GAR-1096
Drive Rivet	IG-86		IG-86		
Drive Rivet	GG-133		GG-133		
Felt Washer - Inner	GR-35		GR-35	GR-35	GR-35
Felt Washer - Outer	GR-73		GR-73		
Felt Washer Retainer	GR-32		GR-32	GR-32	GR-32
FIELD COIL ASSEMBLY	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S
Frame & Field Assembly †	(GAR-3057)	(GAR-3054)	(GAR-2179)	(GAR-2055)	(GAR-2070)
Frame Screw	GAL-20	MW-20A	GAL-20	MW-20A	MW-20A
Frame Screw Lock Washer	X-199	X-199	X-199	X-199	X-199
Frame Screw Nut	X-152		X-152		
Fuse	X-842	X-842	X-842	X-842	X-842
Fuse Cover		GAL-225		GAL-225	GAL-225
Fuse Holder	GAR-1031		GAR-1031		
Fuse Holder Mtg. Screw	8X-78		8X-78		
Fuse Lead Screw	8X-59		8X-59		
Fuse Lead Screw Lock Washer	X-195		X-195		
Gear	GE-11		GE-43		
Grease Cup	X-380	GAL-46	X-380		
Head Band Assembly	GAL-1024	GAL-1024B	GAL-1024	GAL-1024	GAL-1024
Head Band Nut	8X-794	8X-794	8X-794	8X-794	8X-794
Head Band Screw	X-715	8X-308	X-715	X-715	X-715
Lock Spring Ring				GAA-69	GAA-69
Oiler	X-489	X-489	X-489	X-489	X-489
Oil Guard	DA-39		DA-39	DA-39	DA-39
Oil Thrower				GAG-1150	GAG-1150
Plain Washer	X-360		X-360	GK-174	X-358
Tachometer Felt Washer	GAL-91		GAL-91		
Tach. Felt Washer Retainer	GAL-92		GAL-92		
Tachometer Housing	GAR-1059		GAR-1059		
Tach. Housing Gasket	GAR-65		GAR-65		
Tach. Housing Lock Washer	X-544		X-544		
Tach. Housing Screw	8X-119		8X-119		
Tach. Shaft Assembly	GAR-1060S		GAR-1060A		
Thrust Washer	IG-90	GAL-50	IG-90		
Wick & Spring Assembly		GAL-1115			
Woodruff Key (D.E.)	X-261	X-264	X-261	X-263	X-263

* See pages 15 to 18 of this section for complete list of C.E. Plate sub parts.

† See pages 19 & 20 of this section for complete list of Drive End sub parts.

‡ See pages 21 to 23 of this section for complete list of Frame & Field sub parts.

UNIT	USED ON
GAR-4518	Gray Marine
GAR-4520	Allis Chalmers
GAR-4521	Gray Marine
GAR-4522	Moreland, Diamond T
GAR-4524	Hercules

(Issued 5-2-41)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAR TYPE GENERATORS

Page 3

Name of Part	GAR-4525	GAR-4526	GAR-4527	GAR-4534	GAR-4535
Illustration	Fig. 7	Fig. 6	Fig. 6	Fig. 8	Fig. 9
ARMATURE ASSEMBLY	GAR-2103	GAR-2106	GAR-2106	GAR-2125	GAR-2258
Arm. Shaft Lock Washer (D.E.)					X-205
Arm. Shaft Nut (D.E.)	X-157	X-157	X-157		X-160
Arm. Shaft Spacer (D.E.)					GJ-104
Armature Snap Ring	GAR-171	GAR-171	GAR-171	GAR-171	GAR-171
BEARING C. E.	X-295	X-295	X-295	X-295	X-295
BEARING D. E.	X-378	X-378	X-378	X-441	X-295
Bearing Spacer	GAJ-79	GAJ-79	GAJ-79	GAJ-79	GAJ-79
BRUSH SET	GAL-2012	GAL-2012	GAL-2012	GAL-2012	GAL-2012
C. B. Mounting Lock Washer	X-196	X-196	X-196	X-196	X-196
C. B. Mounting Screw	8X-321	8X-321	8X-321	8X-321	8X-321
C. E. Cover	DJ-4	DJ-4	DJ-4	DJ-4	DJ-4
C. E. Cover Gasket	DJ-10	DJ-10	DJ-10	DJ-10	DJ-10
CIRCUIT BREAKER	CB-4014	CB-4014	CB-4014	CB-4014	CB-4014
Comm. End Plate Assy. *	(GAR-2206B)	(GAR-2206B)	(GAR-3235)	(GAR-2206B)	(GAR-2206B)
Cotter Pin	X-404	X-404	X-404		
Cover Holding Lock Washer	X-544	X-544	X-544	X-544	X-544
Cover Holding Screw	8X-870	8X-870	8X-870	8X-870	8X-870
Drive End Head Assembly †	GAR-1104	GAR-1105	GAR-1105	GAR-1126A	GAL-1063
Felt Washer	GR-35	GR-35	GR-35	GR-35	GR-35
Felt Washer Retainer	GR-32	GR-32	GR-32	GR-32	GR-32
FIELD COIL ASSEMBLY	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S
Frame & Field Assembly †	(GAR-2054)	(GAR-2054)	(GAR-3054)	(GAR-2054)	(GAR-2128)
Frame Screw	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A
Frame Screw Lock Washer	X-199	X-199	X-199	X-199	X-199
Fuse	X-842	X-842	X-842	X-842	X-842
Fuse Cover	GAL-225	GAL-225	GAL-225	GAL-225	GAL-225
Head Band Assembly	GAL-1024	GAL-1024	GAL-1024	GAL-1024	GAL-1024
Head Band Nut	8X-794	8X-794	8X-794	8X-794	8X-794
Head Band Screw	X-715	X-715	X-715	X-715	X-715
Lock Spring Ring	GAA-69	GAA-69	GAA-69	GAA-69	GAA-69
Oiler	X-489	X-489	X-489	X-489	X-489
Oil Guard	DA-39	DA-39	DA-39	DA-39	DA-39
Oil Thrower	GAE-1046	GAG-1150	GAG-1150	GG-238	
Plain Washer	X-358	X-358	X-358		GJ-179
Woodruff Key (D.E.)	X-263	X-263	X-263		X-261

* See pages 15 to 18 of this section for complete list of C.E. Plate sub parts.

† See pages 19 & 20 of this section for complete list of Drive End sub parts.

‡ See pages 21 to 23 of this section for complete list of Frame & Field sub parts.

UNIT	USED ON
GAR-4525	Hercules, White
GAR-4526	Byers Machine
GAR-4527	Allis Chalmers
GAR-4534	Continental Motor
GAR-4535	Bay City, Gray Marine

(Issued 5-2-41)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAR TYPE GENERATORS

Page 4

Name of Part	GAR-4536	GAR-4537	GAR-4540	GAR-4541	GAR-4542
Illustration	Fig. 9	Fig. 8	Fig. 10	Fig. 6	Fig. 6
ARMATURE ASSEMBLY	GAR-2258	GAR-2127	GAR-2172	GAR-2106	GAR-2106
Arm. Shaft Lock Washer (D.E.)	X-205	X-1018			
Arm. Shaft Nut (D.E.)	X-160	GY-3	X-1150	X-157	X-157
Arm. Shaft Spacer (D.E.)	GJ-104				
Armature Snap Ring	GAR-171	GAR-171		GAR-171	GAR-171
BEARING C. E.	X-295	X-295		X-295	X-295
BEARING D. E.	X-295	X-441	X-378	X-378	X-378
Bearing Spacer	GAJ-79			GAJ-79	GAJ-79
BRUSH SET	GAL-2012	GAL-2012	GAL-2012	GAL-2012	GAL-2012
C. B. Mounting Lock Washer	X-196	X-196	X-196	X-196	X-196
C. B. Mounting Screw	8X-321	8X-321	8X-321	8X-321	8X-321
C. E. Cover	DJ-4	DJ-4		DJ-4	DJ-4
C. E. Cover Gasket	DJ-10	DJ-10		DJ-10	DJ-10
CIRCUIT BREAKER	CB-4014	CB-4014	CB-4014	CB-4014	CB-4014
Comm. End Plate Assy. *	(GAR-3235)	(GAR-2206B)	(GAR-2207)	(GAR-2206B)	(GAR-3235)
Cotter Pin				X-404	X-404
Cover Holding Lock Washer	X-544	X-544		X-544	X-544
Cover Holding Screw	8X-870	8X-870		8X-870	8X-870
Dist. Housing Clamp			GAG-58		
Dist. Housing Clamp Nut			8X-141		
Dist. Housing Clamp Screw			8X-53		
Dist. Housing Grease Cup			X-380		
Dist. Housing Lock Washer			X-544		
Dist. Housing Screw			8X-900		
Dist. Mounting Housing			GT-121B		
Drive End Head Assembly †	GAL-1063	GAR-1126A	GAR-1173	GAR-1105	GAR-1105
Drive Rivet			GG-133		
Felt Washer	GR-35	GR-35	GJ-170	GR-35	GR-35
Felt Washer Retainer	GR-32	GR-32	GJ-171	GR-32	GR-32
FIELD COIL ASSEMBLY	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S
Frame & Field Assembly †	(GAR-3128)	(GAR-2054)	(GAR-2054)	(GAR-2174)	(GAR-3054)
Frame Screw	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A
Frame Screw Lock Washer	X-199	X-199	X-199	X-199	X-199
Fuse	X-842	X-842	X-842	X-842	X-842
Fuse Cover	GAL-225	GAL-225	GAL-225	GAL-225	GAL-225
Gear			GE-46		
Grease Cup			GAL-46		
Head Band Assembly	GAL-1024	GAL-1024	GAL-1024	GAL-1024B	GAL-1024B
Head Band Nut	8X-794	8X-794	8X-794	8X-794	8X-794
Head Band Screw	X-715	X-715	X-715	8X-308	8X-308
Lock Spring Ring	GAA-69	GAA-69		GAA-69	GAA-69
Oiler	X-489	X-489	X-489	X-489	X-489
Oil Guard	DA-39	DA-39		DA-39	DA-39
Oil Thrower		GG-238	GAG-1150	GAG-1150	GAG-1150
Plain Washer	GJ-179	MF-80	GK-174	X-358	X-358
Wick & Spring Assembly			GAL-1115		
Woodruff Key (D.E.)	X-261		X-263	X-263	X-263

* See pages 15 to 18 of this section for complete list of C.E. Plate sub parts.

† See pages 19 & 20 of this section for complete list of Drive End sub parts.

‡ See pages 21 to 23 of this section for complete list of Frame & Field sub parts.

UNIT	USED ON
GAR-4536	Palmer, Continental
GAR-4537	Continental
GAR-4540	Lycoming
GAR-4541	Allis Chalmers
GAR-4542	Allis Chalmers

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GAR TYPE GENERATORS

Name of Part	GAR-4543	GAR-4545	GAR-4546	GAR-4547	GAR-4548
Illustration	Fig. 6	Fig. 6	Fig. 9	Fig. 9	Fig. 11
ARMATURE ASSEMBLY	GAR-2097	GAR-2097	GAR-2258	GAR-2305	GAR-2097
Arm. Shaft Lock Washer (D.E.)			X-205	X-864	
Arm. Shaft Nut (D.E.)	X-156	X-156	X-160	GBM-21	X-156
Arm. Shaft Spacer (D.E.)			GJ-104	GJ-104	GAL-310
Armature Snap Ring	GAR-171	GAR-171	GAR-171	GAR-171	GAR-171
BEARING C.E.	X-295	X-295	X-295	X-295	X-295
BEARING D.E.	X-378	X-378	X-295	X-295	X-298
Bearing Spacer	GAJ-79	GAJ-79	GAJ-79	GAJ-79	GAJ-79
BRUSH SET	GAL-2012	GAL-2012	GAL-2012	GAL-2012	GAL-2012
C. B. or Reg. Mtg. Lock Washer	X-196	X-196	X-196	X-196	X-196
C. B. or Reg. Mtg. Screw	8X-321	8X-321	8X-321	8X-321	8X-321
C. E. Cover	DJ-4	DJ-4	DJ-4	DJ-4	DJ-4
C. E. Cover Gasket	DJ-10	DJ-10	DJ-10	DJ-10	DJ-10
CIRCUIT BREAKER	CB-4012	CB-4012	CB-4014	CB-4014	
Comm. End Plate Assy. *	(GAR-2206B)	(GAR-2206B)	(GAR-3235)	(GAR-2206B)	(GAR-3235)
Cotter Pin	X-404	X-404			X-404
Cover Holding Lock Washer	X-544	X-544	X-544	X-544	X-544
Cover Holding Screw	8X-870	8X-870	8X-870	8X-870	8X-870
Drive End Head Assembly †	GAR-1096	GAR-1096	GAL-1063	GAL-1063	GAL-1306
Felt Washer	GR-35	GR-35	GR-35	GR-35	GR-35
Felt Washer Retainer	GR-32	GR-32	GR-32	GR-32	GR-32
FIELD COIL ASSEMBLY	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S
Frame & Field Assembly †	(GAR-2055)	(GAR-2070)	(GAR-3128A)	(GAR-2304)	(GAR-3309)
Frame Screw	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A
Frame Screw Lock Washer	X-199	X-199	X-199	X-199	X-199
Fuse	X-842	X-842	X-842	X-842	
Fuse Cover	GAL-225	GAL-225	GAL-225	GAL-225	
Head Band Assembly	GAL-1024	GAL-1024	GAL-1024	GAL-1024	GAL-1024
Head Band Nut	8X-794	8X-794	8X-794	8X-794	8X-794
Head Band Screw	X-715	X-715	X-715	X-715	X-715
Lock Spring Ring	GAA-69	GAA-69	GAA-69	GAA-69	GAA-69
Oiler	X-489	X-489	X-489	X-489	X-489
Oil Guard	DA-39	DA-39	DA-39	DA-39	DA-39
Oil Thrower	GAR-1177	GAR-1177			
Plain Washer	GK-174	X-358	GJ-179		GK-174
REGULATOR					TC-4302A
Woodruff Key (D.E.)	X-263	X-263	X-261	X-260	X-263

* See pages 15 to 18 of this section for complete list of C.E. Plate sub parts.

† See pages 19 & 20 of this section for complete list of Drive End sub parts.

‡ See pages 21 to 23 of this section for complete list of Frame & Field sub parts.

UNIT	USED ON
GAR-4543	Diamond T
GAR-4545	Climax, Hercules
GAR-4546	Hercules
GAR-4547	Waukesha
GAR-4548	Chris Craft

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GAR TYPE GENERATORS

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Name of Part	GAR-4549	GAR-4550	GAR-4551	GAR-4554	GAR-4555
Illustration	Fig. 9	Fig. 11	Fig. 11	Fig. 12	Fig. 13
ARMATURE ASSEMBLY	GAR-2258	GAR-2097	GAR-2097	GAR-2197	GAR-2097
Arm. Shaft Lock Washer (D.E.)	X-205				
Arm. Shaft Nut (C.E.)				DA-70	
Arm. Shaft Nut (D.E.)	X-160	X-156	X-156	X-156	X-156
Arm. Shaft Spacer (D.E.)	GJ-104	GAL-310	GAL-310		
Armature Snap Ring	GAR-171	GAR-171	GAR-171	GAR-171	GAR-171
BEARING C. E.	X-295	X-295	X-295	X-295	X-295
BEARING D. E.	X-295	X-298	X-298	X-378	X-378
Bearing Spacer	GAJ-79	GAJ-79	GAJ-79		GAJ-79
BRUSH SET	GAL-2012	GAL-2012	GAL-2012	GAL-2012	GAL-2012
C.B. or Reg. Mtg. Lock Washer	X-196	X-196	X-196	X-196	X-196
C.B. or Reg. Mtg. Screw	8X-321	8X-321	8X-321	8X-321	8X-321
C. E. Cover	DJ-4	DJ-4	DJ-4		DJ-4
C. E. Cover Gasket	DJ-10	DJ-10	DJ-10		DJ-10
CIRCUIT BREAKER	CB-4014			CB-4014	
Comm. End Plate Assy. *	(GAR-2206B)	(GAR-2206D)	(GAR-3235A)	(GAR-2206B)	(GAR-2206B)
Cotter Pin		X-404	X-404	X-404	X-404
Cover Holding Lock Washer	X-544	X-544	X-544		X-544
Cover Holding Screw	8X-870	8X-870	8X-870		8X-870
Dist. Housing Clamp				GAG-58	
Dist. Housing Clamp Nut				8X-141	
Dist. Housing Clamp Screw				8X-53	
Dist. Housing Grease Cup				X-380	
Dist. Housing Lock Washer				X-544	
Dist. Housing Screw				8X-119	
Dist. Mounting Housing				GAG-101	
Drive End Head Assembly †	GAL-1063	GAL-1306A	GAL-1306A	GAR-1196	GAR-1096
Drive Rivet				GG-133	
Felt Washer - Inner	GR-35	GR-35	GR-35	GR-35	GR-35
Felt Washer - Outer				GR-73	
Felt Washer Retainer	GR-32	GR-32	GR-32	GR-32	GR-32
FIELD COIL ASSEMBLY	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S
Frame & Field Assembly †	(GAR-2128A)	(GAR-2122A)	(GAR-2122B)	(GAR-2111)	(GAR-2121)
Frame Screw	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A
Frame Screw Lock Washer	X-199	X-199	X-199	X-199	X-199
Fuse	X-842			X-842	
Fuse Cover	GAL-225			GAL-225	
Gear				GE-19	
Head Band Assembly	GAL-1024	GAL-1024	GAL-1024	GAL-1024	GAL-1024
Head Band Nut	8X-794	8X-794	8X-794	8X-794	8X-794
Head Band Screw	X-715	X-715	X-715	X-715	X-715
Lock Spring Ring	GAA-69	GAA-69	GAA-69		GAA-69
Oiler	X-489	X-489	X-489	X-489	X-489
Oil Guard	DA-39	DA-39	DA-39	DA-39	DA-39
Oil Thrower				GAR-1177	GAR-1177
Plain Washer	GJ-179	GK-174	GK-174	GK-174	GK-174
REGULATOR		TC-4302A	TC-4302A		TC-4302A
Woodruff Key (D.E.)	X-261	X-263	X-263	X-263	X-263

* See pages 15 to 18 of this section for complete list of C.E. Plate sub parts.

† See pages 19 & 20 of this section for complete list of Drive End sub parts.

‡ See pages 21 to 23 of this section for complete list of Frame & Field sub parts.

UNIT	USED ON
GAR-4549	Kermath
GAR-4550	Chris Craft
GAR-4551	Chris Craft
GAR-4554	Insley
GAR-4555	Hercules

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GAR TYPE GENERATORS

Name of Part	GAR-4601	GAR-4603,A	GAR-4605	GAR-4606	GAR-4607
Illustration	Fig. 14	Fig. 15	Fig. 16	Fig. 16	Fig. 17
Air Deflector					GAR-82
Air Deflector Screw					X-62
ARMATURE ASSEMBLY	GAR-2214	GAR-2077	GAR-2089	GAR-2089	GAR-2109
Arm. Shaft Lock Washer (C.E.)					X-204
Arm. Shaft Lock Washer (D.E.)		X-864	X-864	X-1280	
Arm. Shaft Nut (C.E.)	DA-70				GEM-21
Arm. Shaft Nut (D.E.)		GEM-21	GEM-21	GBM-21	X-156
Arm. Shaft Spacer (D.E.)	GAR-159		GAM-90		
Armature Snap Ring	GAR-171	GAR-171	GAR-171	GAR-171	GAR-171
BEARING C. E.	X-295		X-295	X-295	X-295
BEARING D. E.	X-295	X-295	X-295	X-295	X-378
Bearing Retaining Lock Washer			X-199	X-199	
Bearing Retaining Screw			DA-60	DA-60	
Bearing Retaining Washer			DA-22	DA-22	
Brush Lead Lock Washer	X-195	X-195	X-195	X-195	X-195
Brush Lead Screw	8X-305	8X-305	8X-305	8X-305	8X-305
BRUSH SET	GEM-2012AS	GEM-2012AS	GEM-2012AS	GEM-2012AS	GEM-2012AS
C.B. or Reg. Mtg. Lock Washer	X-196	X-196	X-196	X-196	X-196
C.B. or Reg. Mtg. Screw	8X-321	8X-321	8X-321	8X-321	8X-321
C. E. Cover	GAG-53		GBJ-32	GBJ-32	GAR-83
C. E. Cover Gasket	DJ-10		GBJ-25	GBJ-25	GAR-25
CIRCUIT BREAKER	CB-4014	CB-4021	CB-4021	CB-4021	CB-4012
Comm. End Plate Assy. *	(GAL-2213A)	(GAR-2071)	(GAR-2091)	(GAR-2091)	(GAR-2081)
Connector			GAR-1092	GAR-1092	
Cotter Pin					X-404
Cover Holding Lock Washer	X-544		X-544	X-544	
Cover Holding Screw	8X-870		8X-870	8X-870	X-62
Drive End Head Assembly †	GAR-1062B	GAR-1076	GBJ-1003D	GBJ-1003D	GAR-1096
Drive Pulley		+		SP-135	
Fan					SP-96C
Felt Washer - Inner	GR-35		GAB-188	GAB-188	GAB-188
Felt Washer - Outer	GR-35				DA-132
Felt Washer Retainer	GR-32		GR-32	GR-32	GR-32
FIELD COIL ASSEMBLY	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S
Frame & Field Assembly †	(GAR-2052)	(GAR-2054A)	(GAR-2090)	(GAR-2094)	(GAR-2084)
Frame Screw	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A
Frame Screw Lock Washer	X-199	X-199	X-199	X-199	X-199
Fuse	X-842	X-842			X-842
Fuse Cover	GAL-225	GAL-225			GAL-225
Head Band Assembly	GAL-1024	GAL-1024	GAL-1024	GAL-1024	GAL-1024
Head Band Nut	8X-794	8X-794	8X-794	8X-794	8X-794
Head Band Screw	X-715	X-715	X-715	X-715	X-715
Oiler	X-489		X-489	X-489	X-489
Oil Guard	DA-39		DA-39	DA-39	DA-39
Oil Thrower					GAG-1150
Plain Washer					GK-174
REGULATOR			TC-4309A	TC-4309A	
Woodruff Key (C.E.)					X-258
Woodruff Key (D.E.)	X-264B	X-260	X-260	X-260	X-263

* See pages 15 to 18 of this section for complete list of C.E. Plate sub parts.

† See pages 19 & 20 of this section for complete list of Drive End sub parts.

‡ See pages 21 to 23 of this section for complete list of frame & field sub parts.

Assembly No.	Drive Pulley
GAR-4603	SP-134
GAR-4603A	SP-158

UNIT	USED ON
GAR-4601	Nash
GAR-4603,A	Auburn
GAR-4605	Studebaker
GAR-4606	Hupp
GAR-4607	Diamond T, White

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GAR TYPE GENERATORS

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Name of Part	GAR-4608, A to H	GAR-4609, A,B	GAR-4610	GAR-4611 A	GAR-4612
Illustration	Fig. 15	Fig. 15	Fig. 17	Fig. 15	Fig. 18
Air Deflector			GAR-82		
Air Deflector Screw			X-62		
ARMATURE ASSEMBLY	GAR-2116F	GAR-2116F	GAR-2109	GAR-2116F	GAR-2135
Arm. Shaft Lock Washer (C.E.)			X-204		
Arm. Shaft Lock Washer (D.E.)	X-864	X-864		X-864	
Arm. Shaft Nut (C.E.)			GBM-21		DA-70
Arm. Shaft Nut (D.E.)	GBM-21	GBM-21	X-156	GBM-21	
Arm. Shaft Spacer (D.E.)		+			
Armature Snap Ring	GAR-171	GAR-171	GAR-171	GAR-171	GAR-171
BEARING C. E.			X-295		X-295
BEARING D. E.	X-295	X-295	X-378	X-295	X-295
Brush Lead Lock Washer	X-195	X-195	X-195	X-195	X-195
Brush Lead Screw	8X-305	8X-305	8X-305	8X-305	8X-305
BRUSH SET	GBM-2012AS	GBM-2012AS	GBM-2012AS	GBM-2012AS	GBM-2012AS
C.B. or Reg. Mtg. Lock Washer	X-1270	X-196	X-196	X-1270	X-196
C.B. or Reg. Mtg. Screw	8X-321	8X-321	8X-321	8X-321	8X-321
C. E. Cover			GAR-83		GAG-53
C. E. Cover Gasket			GBJ-25		DJ-10
Comm. End Plate Assy. *	(GAR-2115E)	(GAR-2115E)	(GAR-2081)	(GAR-2115E)	(GAL-2213A)
Cotter Pin			X-404		
Cover Holding Lock Washer					X-544
Cover Holding Screw			X-62		8X-870
Drive End Head Assembly †	GBJ-1003C	GBJ-1003C	GAR-1096	GBJ-1003D	GAR-1062B
Drive Pulley	+	+		+	
Fan			SP-96C		SP-96C
Felt Washer - Inner			GAB-188		GR-35
Felt Washer - Outer			DA-132		GR-35
Felt Washer Retainer (C.E.)			GR-32		GR-32
Felt Washer Retainer (D.E.)	GR-32	GR-32		GR-32	GR-32
FIELD COIL ASSEMBLY	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S
Frame & Field Assembly †	(GAR-2117)	(GAR-2122)	(GAR-2132)	(GAR-2134)	(GAR-2136)
Frame Screw	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A
Frame Screw Lock Washer	12X-199	X-199	X-199	X-199	X-199
Head Band Assembly	GBM-24	GAL-1024	GAL-1024	GAL-1024C	GAL-1024
Head Band Nut	8X-794	8X-794	8X-794	8X-794	8X-794
Head Band Screw	8X-715	X-714	X-715	8X-715	X-715
Oiler			X-489		X-489
Oil Guard			DA-39		DA-39
Oil Thrower			GAG-1150		
Plain Washer			GK-174		
REGULATOR	TC-4301A	TC-4302A	TC-4302A	TC-4302A	TC-4302A
Woodruff Key (C.E.)			X-258		X-261
Woodruff Key (D.E.)	X-260	X-260	X-263	X-260	X-261
Woodruff Key (D.E.)					X-258

* See pages 15 to 18 of this section for complete list of C.E. Plate sub parts.

† See pages 19 & 20 of this section for complete list of Drive End sub parts.

‡ See pages 21 to 23 of this section for complete list of Frame & Field sub parts.

Assembly No.	Drive Pulley	Assembly No.	Drive Pulley	Spacer
GAR-4608	SP-153	GAR-4609	None	GAM-90
GAR-4608A	SP-157	GAR-4609A	SP-1182	None
GAR-4608B	SP-152	GAR-4609B	SP-190	None
GAR-4608C	SP-161	GAR-4611	SP-156	
GAR-4608D	SP-162	GAR-4611A	SP-185	
GAR-4608E	SP-1174			
GAR-4608F	SP-1220			
GAR-4608H	None			

UNIT	USED ON
GAR-4608,A,B, C,D,E,F,H	Chrysler Corp.
GAR-4609,A,B	Studebaker
GAR-4610	Diamond T
GAR-4611,A	Packard
GAR-4612	Gray Marine

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GAR TYPE GENERATORS

Name of Part	GAR-4613	GAR-4614	GAR-4616	GAR-4617	GAR-4618
Illustration	Fig. 17	Fig. 19	Fig. 20	Fig. 21	Fig. 14
Air Deflector	GAR-82	GAR-82		GAR-82	
Air Deflector Screw	X-62	X-62		X-62	
ARMATURE ASSEMBLY	GAR-2138	GAR-2140	GAR-2151	GAR-2154	GAR-2155
Arm. Shaft Lock Washer (C.E.)	X-204	X-204		X-204	
Arm. Shaft Lock Washer (D.E.)			X-205	X-1018	
Arm. Shaft Nut (C.E.)	GBM-21	GBM-21		GAR-156	DA-70
Arm. Shaft Nut (D.E.)	X-157	X-157	X-160	GY-3	
Arm. Shaft Spacer (D.E.)					GAU-38
Armature Snap Ring	GAR-171	GAR-171	GAR-171	GAR-171	GAR-171
BEARING C. E.	X-295	X-295	X-295	X-295	X-295
BEARING D. E.	X-378	X-378	295	X-441	X-295
Bearing Retaining Lock Washer			X-199		
Bearing Retaining Screw			DA-60		
Bearing Retaining Washer			DA-22		
Bearing Spacer			GAJ-79		
Brush Lead Lock Washer	X-195	X-195	X-195	X-195	X-195
Brush Lead Screw	8X-305	8X-305	8X-305	8X-305	8X-305
BRUSH SET	GBM-2012AS	GBM-2012AS	GBM-2012AS	GBM-2012AS	GBM-2012AS
C.B. or Reg. Mtg. Lock Washer	X-196	X-196	X-196	X-196	X-196
C.B. or Reg. Mtg. Screw	8X-321	8X-321	8X-321	8X-321	8X-321
C. E. Cover	GAR-83	GAR-83	DJ-4	GAR-83	GAG-53
C. E. Cover Gasket	GBJ-25	GBJ-25	DJ-10	GBJ-25	DJ-10
CIRCUIT BREAKER					CB-4014
Comm. End Plate Assy. *	(GAR-2081)	(GAR-2081)	(GAL-2213A)	(GAR-2081)	(GAL-2213A)
Cotter Pin	X-404	X-404			
Cover Holding Lock Washer			X-544		X-544
Cover Holding Screw	X-62	X-62	8X-870	X-62	8X-870
Drive End Head Assembly †	GAR-1105	GAR-1104	GAR-1062B	GAL-1109A	GAR-1062B
Fan	SP-96C	SP-96C	SP-96C	SP-96C	
Felt Washer - Inner	GAB-188	GAB-188	GR-35	GAB-188	GR-35
Felt Washer - Outer	DA-132	DA-132		DA-132	GR-35
Felt Washer Retainer (C.E.)	GR-32	GR-32	GR-32	GR-32	GR-32
Felt Washer Retainer (D.E.)			GR-32	GR-32	GR-32
FIELD COIL ASSEMBLY	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S
Frame & Field Assembly †	(GAR-2139)	(GAR-2139)	(GAR-2136)	(GAR-2153)	(GAR-2052)
Frame Screw	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A
Frame Screw Lock Washer	X-199	X-199	X-199	X-199	X-199
Fuse					X-842
Fuse Cover					GAL-225
Head Band Assembly	GAL-1024	GAL-1024	GAL-1024	GAL-1024	GAL-1024
Head Band Nut	8X-794	8X-794	8X-794	8X-794	8X-794
Head Band Screw	X-715	X-715	X-715	X-715	X-715
Oiler	X-489	X-489	X-489	X-489	X-489
Oil Guard	DA-39	DA-39	DA-39	DA-39	DA-39
Oil Thrower	GAG-1150	GAE-1046		GG-238	
Plain Washer	X-358	X-358	GJ-179	MF-80	
REGULATOR	TC-4302A	TC-4302A	TC-4302A	TC-4302A	
Woodruff Key (C.E.)	X-258	X-258		X-258	
Woodruff Key (D.E.)	X-263	X-263	X-258		X-264B
Woodruff Key (D.E.)			X-261		

* See pages 15 to 18 of this section for complete list of C.E. Plate sub parts.

† See pages 19 & 20 of this section for complete list of Drive End sub parts.

‡ See pages 21 to 23 of this section for complete list of Frame & Field sub parts.

UNIT	USED ON
GAR-4613	Moreland
GAR-4614	Diamond T
GAR-4616	Brockway
GAR-4617	Brockway
GAR-4618	Nash

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Name of Part	GAR-4619	GAR-4620	GAR-4621	GAR-4622	GAR-4623
Illustration	Fig. 18	Fig. 15	Fig. 18	Fig. 17	Fig. 17
Air Deflector				GAR-82	GAR-82
Air Deflector Screw				X-62	X-62
ARMATURE ASSEMBLY	GAR-2158	GAR-2116F	GAR-2135	GAR-2109	GAR-2109
Arm. Shaft Lock Washer (C.E.)				X-204	X-204
Arm. Shaft Lock Washer (D.E.)		X-864			
Arm. Shaft Nut (C.E.)	DA-70		DA-70	GBM-21	GBM-21
Arm. Shaft Nut (D.E.)		GBM-21		X-156	X-156
Arm. Shaft Spacer (D.E.)	GAR-159				
Armature Snap Ring	GAR-171	GAR-171	GAR-171	GAR-171	GAR-171
BEARING C. E.	X-295		X-295	X-295	X-295
BEARING D. E.	X-295	X-295	X-295	X-378	X-378
Brush Lead Lock Washer	X-195	X-195	X-195	X-195	X-195
Brush Lead Screw	8X-305	8X-305	8X-305	8X-305	8X-305
BRUSH SET	GBM-2012AS	GBM-2012AS	GBM-2012AS	GBM-2012AS	GBM-2012AS
C.B. or Reg. Mtg. Lock Washer	X-196	X-196	X-196	X-196	X-196
C.B. or Reg. Mtg. Screw	8X-321	8X-321	8X-321	8X-321	8X-321
C. E. Cover	GAG-53		GAG-53	GAR-83	GAR-83
C. E. Cover Gasket	DJ-10		DJ-10	GBJ-25	GBJ-25
CIRCUIT BREAKER				CB-4012	
Comm. End Plate Assy. *	(GAL-2213A)	(GAR-2115E)	(GAR-3175)	(GAR-2081)	(GAR-2081)
Cotter Pin				X-404	X-404
Cover Holding Lock Washer	X-544		X-544		
Cover Holding Screw	8X-870		8X-870	X-62	X-62
Drive End Head Assembly †	GAR-1062B	GBJ-1003D	GAR-1062B	GAR-1096	GAR-1096
Drive Pulley		SP-135			
Fan			SP-96C	SP-96C	SP-96C
Felt Washer - Inner	GR-35		GR-35	GAB-188	GAB-188
Felt Washer - Outer	GR-35		GR-35	DA-132	DA-132
Felt Washer Retainer (C.E.)	GR-32		GR-32	GR-32	GR-32
Felt Washer Retainer (D.E.)	GR-32	GR-32	GR-32		
FIELD COIL ASSEMBLY	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S
Frame & Field Assembly †	(GAR-2157)	(GAR-2276)	(GAR-3136)	(GAR-2084)	(GAR-2132)
Frame Screw	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A
Frame Screw Lock Washer	X-199	X-199	X-199	X-199	X-199
Fuse				X-842	
Fuse Cover				GAL-225	
Head Band Assembly	GAL-1024	GAL-1024	GAL-1024	GAL-1024	GAL-1024
Head Band Nut	8X-794	8X-794	8X-794	8X-794	8X-794
Head Band Screw	X-715	X-715	X-715	X-715	X-715
Oiler	X-489		X-489	X-489	X-489
Oil Guard	DA-39		DA-39	DA-39	DA-39
Oil Thrower				GAR-1177	GAR-1177
Plain Washer				GK-174	GK-174
REGULATOR	TC-4302A	TC-4302A	TC-4302A		TC-4302A
Woodruff Key (C.E.)			X-261	X-258	X-258
Woodruff Key (D.E.)	X-264B	X-260	X-261		
Woodruff Key (D.E.)			X-258	X-263	X-263

* See pages 15 to 18 of this section for complete list of C.E. Plate sub parts.

† See pages 19 & 20 of this section for complete list of Drive End sub parts.

‡ See pages 21 to 23 of this section for complete list of Frame & Field sub parts.

UNIT	USED ON
GAR-4619	Brockway
GAR-4620	Hupp
GAR-4621	Gray Marine
GAR-4622	Diamond T, White
GAR-4623	Diamond T, Moreland

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Name of Part	GAR-4624	GAR-4625	GAR-4626	GAR-4627	GAR-4630
Illustration	Fig. 22	Fig. 15	Fig. 23	Fig. 21	Fig. 15
Air Deflector				GAR-82	
Air Deflector Screw				X-62	
ARMATURE ASSEMBLY	GAR-2281F	GAR-2077	GAR-2286	GAR-2180	GAR-2077
Arm. Shaft Lock Washer (C.E.)				X-204	
Arm. Shaft Lock Washer (D.E.)	X-864	X-864	X-864	X-1018	X-864
Arm. Shaft Nut (C.E.)				GBM-21	
Arm. Shaft Nut (D.E.)	GBM-21	GBM-21	GBM-21	GY-3	GBM-21
Armature Snap Ring		GAR-171	GAR-171	GAR-171	GAR-171
BEARING C. E.			X-295	X-295	
BEARING D. E.	X-298	X-295	X-295	X-441	X-295
Bearing Retaining Lock Washer			X-199		
Bearing Retaining Screw			DA-60		
Bearing Retaining Washer			DA-22		
Brush Lead Lock Washer	X-195	X-195	X-195	X-195	X-195
Brush Lead Screw	8X-305	8X-305	8X-305	8X-305	8X-305
BRUSH SET	GBM-2012AS	GBM-2012AS	GBM-2012AS	GBM-2012AS	GBM-2012AS
C.B. or Reg. Mtg. Lock Washer	X-1270	X-196	X-196	X-196	X-196
C.B. or Reg. Mtg. Screw	8X-321	8X-321	8X-321	8X-321	8X-321
C. E. Cover			DJ-4	GAR-83	
C. E. Cover Gasket			DJ-10	GBJ-25	
CIRCUIT BREAKER			CB-4014		
Comm. End Plate Assy. *	(GAR-2115E)	(GAR-2071)	(GAL-2213A)	(GAR-2081)	(GAR-2071)
Cover Holding Lock Washer			X-544		
Cover Holding Screw			8X-870	X-62	
Drive End Head Assembly †	GAR-1182	GAR-1076	GAR-1062B	GAR-1126A	GAR-1076
Drive Pulley	SP-165	SP-94	SP-134		SP-191
Fan				SP-96C	
Felt Washer - Inner			GR-35	GAB-188	
Felt Washer - Outer				DA-132	
Felt Washer Retainer (C.E.)			GR-32	GR-32	
Felt Washer Retainer (D.E.)			GR-32	GR-32	
FIELD COIL ASSEMBLY	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S
Frame & Field Assembly †	(GAR-2117)	(GAR-2285)	(GAR-2287)	(GAR-2139)	(GAR-2285)
Frame Screw	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A
Frame Screw Lock Washer	12X-199	X-199	X-199	X-199	X-199
Fuse			X-842		
Fuse Cover			GAL-225		
Head Band Assembly	GBM-24	GAL-1024	GAL-1024	GAL-1024	GAL-1024
Head Band Nut	8X-794	8X-794	8X-794	8X-794	8X-794
Head Band Screw	X-715	X-715	X-715	X-715	X-715
Oiler			X-489	X-489	
Oil Guard			DA-39	DA-39	
Oil Thrower				GG-238	
Plain Washer				MF-80	
REGULATOR	TC-4301A	TC-4311A		TC-4302A	TC-4302A
Woodruff Key (C.E.)				X-258	
Woodruff Key (D.E.)	X-263	X-260	X-260		X-260

* See pages 15 to 18 of this section for complete list of C.E. Plate sub parts.

† See pages 19 & 20 of this section for complete list of Drive End sub parts.

‡ See pages 21 to 23 of this section for complete list of Frame & Field sub parts.

UNIT	USED ON
GAR-4624	Chrysler Corp.
GAR-4625	Checker Cab
GAR-4626	Gramm
GAR-4627	Brockway
GAR-4630	Auburn

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Name of Part	GAR-4631	GAR-4632	GAR-4633	GAR-4634	GAR-4635
Illustration	Fig. 15	Fig. 24	Fig. 24	Fig. 14	Fig. 19
"A" Terminal Lock Washer					X-196
"A" Terminal Nut					8X-177
Air Deflector					GAR-82
Air Deflector Screw					X-62
ARMATURE ASSEMBLY	GAR-2116F	GAR-2312	GAR-2318	GAR-2321	GAR-2140
Arm. Shaft Lock Washer (C.E.)					X-204
Arm. Shaft Lock Washer (D.E.)	X-864				
Arm. Shaft Nut (C.E.)				DA-70	GBM-21
Arm. Shaft Nut (D.E.)	GBM-21				X-157
Arm. Shaft Spacer (D.E.)				GAU-38	
Armature Snap Ring	GAR-171	GAR-171	GAR-171	GAR-171	GAR-171
BEARING C. E.		X-295	X-295	X-295	X-295
BEARING D. E.	X-295	X-295	X-295	X-295	X-378
Bearing Retaining Lock Washer		X-199	X-199		
Bearing Retaining Screw		DA-60	DA-60		
Bearing Retaining Washer		DA-22	DA-22		
Brush Lead Lock Washer	X-195	X-195	X-195	X-195	X-195
Brush Lead Screw	8X-305	8X-305	8X-305	8X-305	8X-305
BRUSH SET	GBM-2012AS	GBM-2012AS	GBM-2012AS	GBM-2012AS	GBM-2012AS
C.B. or Reg. Mtg. Lock Washer	X-1270	X-196	X-196	X-196	
C.B. or Reg. Mtg. Screw	8X-321	8X-321	8X-321	8X-321	
C. E. Cover		DJ-4A	DJ-4A	GAG-53	GAR-83
C. E. Cover Gasket		DJ-10	DJ-10	DJ-10	GBJ-25
CIRCUIT BREAKER		CB-4014	CB-4014	CB-4014	
Comm. End Plate Assy. *	(GAR-2115E)	(GAL-2213B)	(GAL-2213B)	(GAL-2213A)	(GAR-2081)
Cotter Pin					X-404
Cover Holding Lock Washer		X-544	X-544	X-544	
Cover Holding Screw		8X-870	8X-870	8X-870	X-62
Drive End Head Assembly †	GBJ-1003C	GAR-1062B	GAR-1062B	GAR-1062B	GAR-1192
Drive Pulley	SP-150				
Fan		SP-96B	SP-96B		SP-96C
Felt Washer - Inner		GR-35	GR-35	GR-35	GAB-188
Felt Washer - Outer				GR-35	DA-132
Felt Washer Retainer (C.E.)		GR-32	GR-32	GR-32	GR-32
Felt Washer Retainer (D.E.)	GR-32	GR-32	GR-32	GR-32	
FIELD COIL ASSEMBLY	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S
Field Terminal Lock Washer					X-193
Field Terminal Nut					8X-1377
Frame & Field Assembly †	(GAR-2134)	(GAR-2287A)	(GAR-2287A)	(GAR-2052)	(GAR-2193)
Frame Screw	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A
Frame Screw Lock Washer	X-199	X-199	X-199	X-199	X-199
Fuse		X-842	X-842	X-842	
Fuse Cover		GAL-225	GAL-225	GAL-225	
Ground Screw					8X-321
Ground Screw Lock Washer					X-196
Head Band Assembly	GAL-1024C	GAL-1024D	GAL-1024D	GAL-1024	GAL-1024
Head Band Nut	8X-794	8X-794	8X-794	8X-794	8X-794
Head Band Screw	X-715	8X-715	8X-715	X-715	X-715
Lock Spring Ring		GAA-69	GAA-69		
Oiler		X-489	X-489	X-489	X-489
Oil Guard		DA-39	DA-39	DA-39	DA-39
Oil Thrower					DG-1144
Plain Washer					X-358
REGULATOR	TC-4302A				
Woodruff Key (C.E.)					X-258
Woodruff Key (D.E.)	X-260	X-258	X-258	X-264B	X-263

* See pages 15 to 18 of this section for complete list of C.E. Plate sub parts.

† See pages 19 & 20 of this section for complete list of Drive End sub parts.

‡ See pages 21 to 23 of this section for complete list of Frame & Field sub parts.

UNIT	USED ON
GAR-4631	Reo
GAR-4632	
GAR-4633	
GAR-4634	Nash
GAR-4635	Hercules

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Name of Part	GAR-4701	GAR-4702
Illustration	Fig. 25	Fig. 25
"A" Terminal Lock Washer	12X-193	12X-193
"A" Terminal Nut	8X-177	8X-177
ARMATURE ASSEMBLY	GAR-2077	GAR-2077
Armature Shaft Lock Washer	X-864	X-864
Armature Shaft Nut	GBM-21	GBM-21
Armature Snap Ring	GAR-171	GAR-171
BEARING D. E.	X-295	X-295
BRUSH SET	GAL-2012A	GAL-2012A
Comm. End Plate Assy. *	(GAR-3184)	(GAR-3184)
Drive End Head Assembly †	GAM-2048A	GAM-2048A
Drive Pulley	SP-1178	SP-1178
FIELD COIL ASSEMBLY	GAL-1005S	GAL-1005S
Field Terminal Lock Washer	12X-193	12X-199
Field Terminal Nut	8X-177	8X-177
Frame & Field Assembly †	(GAR-2185)	(GAR-2185)
Frame Screw	MW-20A	MW-20A
Frame Screw Lock Washer	X-199	X-199
Grounding Cup		GBJ-33
Head Band Assembly	GAL-1024	GAL-1024
Head Band Nut	8X-794	8X-794
Head Band Screw	X-714	X-714
Plain Terminal Washer	8X-361	8X-361
Terminal	X-966	X-966
Woodruff Key	X-260	X-260

* See pages 15 to 18 of this section for complete list of C.E. Plate sub parts.

† See pages 19 & 20 of this section for complete list of Drive End sub parts.

‡ See pages 21 to 23 of this section for complete list of Frame & Field sub parts.

UNIT	USED ON
GAR-4701	Hudson
GAR-4702	Hudson

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COMM. END PLATE ASSEMBLY

Name of Part	GAL-2206	GAL-2213A	GAL-2213B	GAL-2235	GAR-2071
Brush Holder	GAL-242			GAL-242	
Brush Holder Sc. Lock Washer	X-195			X-195	
Brush Holding Screw	8X-47			8X-47	
Brush Lead Screw	8X-59	8X-305	8X-305	8X-59	8X-305
Brush Lead Sc. Lock Washer	X-1276	X-195	X-195	X-1276	X-195
Brush - Main	GAL-12	GBM-1012A	GBM-1012A	GAL-12	GBM-1012A
Brush Plate	GAL-199			GAL-199	
Brush Spring Grounded	GAL-201			GAL-202	
Brush Spring Insulated	GAL-202			GAL-201	
C. E. Cover					GAR-79
C. E. Cover Gasket					GAR-78
C. E. Plate Part Assembly	GAL-1206	GAL-1213A	GAL-1213B	GAL-1235	GAR-1071A
Bearing C.E.					GBF-79
Cover Holding Lock Washer					X-196
Cover Holding Screw					8X-870
Felt Wick					GAR-73
Felt Wick Cover					GAR-98A
Gasket					GBW-73
Ground Lead	GAL-204			GAL-204	
Ground Lead Terminal	X-958			X-958	
Ground Screw	8X-304			8X-304	
Ground Screw Lock Washer	X-195			X-195	
Oiler					X-489
Oil Retainer					GBW-72
3rd Brush Plate Ret'g Spring	GAL-205	GAL-51	GAL-51	GAL-205	GAL-51
3rd Brush Ret'g Spring Screw	8X-63	8X-56	8X-56	8X-63	8X-56
3rd Brush Plate Assembly	GAL-2187	GAL-1161	GAL-1161	GAL-2210	GAR-1072
Brush Holder	GAL-242			GAL-242	
Brush Holding Screw	8X-47			8X-47	
Br. Holding Sc. Lock Washer	X-195			X-195	
Brush Lead Screw	8X-59			8X-59	
Br. Lead Sc. Lock Washer	X-1276			X-1276	
Brush Plate	GAL-199			GAL-199	
Brush Spring - Third	GAL-201			GAL-202	
Brush - Third	GAL-13	GBM-1013A	GBM-1013A	GAL-13	GBM-1013A
3rd Brush Plate	GAL-1187			GAL-1210	

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COMM. END PLATE ASSEMBLY

Name of Part	GAR-2081	GAR-2091	GAR-2115E	GAR-2206B	GAR-2206C
Brush Holder				GAL-242	GAL-242
Brush Holder Sc. Lock Washer				X-195	X-195
Brush Holding Screw				8X-47	8X-47
Brush Lead Screw	8X-305	8X-305	8X-305	8X-59	8X-59
Brush Lead Sc. Lock Washer	X-195	X-195	X-195	X-1276	X-1276
Brush - Main	GEM-1012A	GEM-1012A	GEM-1012A	GAL-12	GAL-12
Brush Plate				GAL-199	GAL-199
Brush Spring Grounded				GAL-243	GAL-243
Brush Spring Insulated				GAL-243	GAL-243
C. E. Cover			GAR-79A		
C. E. Cover Gasket			GAR-78		
C. E. Plate Part Assembly	GAR-1081	GAR-1091	GAR-1115A	GAL-1206B	GAL-1206C
Bearing C. E.			GBF-79		
Cover Holding Lock Washer			12X-196		
Cover Holding Screw			8X-870		
Felt Wick			GAR-73		
Felt Wick Cover			GAR-98A		
Gasket			GBW-73		
Ground Lead				GAL-204	GAL-204
Ground Lead Terminal				X-958	X-958
Ground Screw				8X-304	8X-304
Ground Screw Lock Washer				X-195	X-195
Oiler			X-489		
Oil Retainer			GBW-72		
3rd Brush Plate Ret'g Spring	GAL-51	GAL-51	GAL-51	GAL-205	GAL-205
3rd Br. Ret'g Spring Screw	8X-56	8X-56	8X-56	8X-63	8X-63
3rd Brush Plate Assembly	GAL-1161	GAL-1161	GAR-1072	GAR-2187A	GAR-2187A
Brush Holder				GAL-242	GAL-242
Brush Holding Screw				8X-47	8X-47
Brush Holding Sc. Washer				X-195	X-195
Brush Lead Screw				8X-59	8X-59
Br. Lead Sc. Lock Washer				X-1276	X-1276
Brush Plate				GAL-199	GAL-199
Brush Spring Third				GAL-243	GAL-243
Brush - Third	GEM-1013A	GEM-1013A	GEM-1013A	GAL-13	GAL-13
3rd Brush Plate				GAR-1187A	GAR-1187A

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GAR TYPE GENERATORS

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COMM. END PLATE ASSEMBLY

Name of Part	GAR-2206D	GAR-2207	GAR-3175	GAR-3184	GAR-3228A
Bearing Cover					GAL-40
Brush Holder	GAL-242	GAL-242		GAL-242	GAL-242
Brush Holding Sc. Lock Washer	X-195	X-195		X-195	X-195
Brush Holding Screw	8X-47	8X-47		8X-47	8X-47
Brush Lead Screw	8X-59	8X-59	8X-305	8X-59	8X-59
Brush Lead Sc. Lock Washer	X-1276	X-1276	X-195	X-1276	X-1276
Brush - Main	GAL-12	GAL-12	GEM-1012A	GAL-12	GAL-12
Brush Plate	GAL-199	GAL-199		GAL-199	GAL-199
Brush Spring Grounded	GAL-243	GAL-243		GAL-243	GAL-243
Brush Spring Insulated	GAL-243	GAL-243		GAL-243	GAL-243
C.E. Plate Part Assembly	GAL-1206D	GAL-1207A	GAR-1175	GAR-2184	GAR-2228
Bearing C. E.					GAL-49
Oiler				X-390	
Ground Lead	GAL-204	GAL-204		GAM-69	GAL-204
Ground Lead Terminal	X-958	X-958		X-958	X-958
Ground Lead Terminal				X-1031	
Ground Screw	8X-304	8X-304			8X-304
Ground Sc. Lock Washer	X-195	X-195			X-195
3rd Brush Plate Ret'g Spring	GAL-205	GAL-205	GAL-51	GAM-56	GAL-205
3rd Brush Ret'g Spring Screw	8X-63	8X-63	8X-56	8X-63	8X-63
3rd Brush Plate Assembly	GAR-2187A	GAR-2187A	GAR-2176	GAR-2013	GAR-2213
Brush Holder	GAL-242	GAL-242		GAL-242	GAL-242
Brush Holding Screw	8X-47	8X-47		8X-47	8X-47
Br. Holding Sc. Lock Washer	X-195	X-195		X-195	X-195
Brush Lead Screw	8X-59	8X-59		8X-59	8X-59
Br. Lead Sc. Lock Washer	X-1276	X-1276		X-1276	X-1276
Brush Plate	GAL-199	GAL-199		GAL-199	GAL-199
Brush Spring Third	GAL-243	GAL-243		GAL-243	GAL-243
Brush - Third	GAL-13	GAL-13	GEM-1013A	GAR-13	GAL-13
3rd Brush Plate	GAR-1187A	GAR-1187A		GAM-1058A	GAR-1213

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAR TYPE GENERATORS

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COMM. END PLATE ASSEMBLY

Name of Part	GAR-3235	GAR-3235A
Brush Holder	GAL-242	GAL-242
Brush Holder Sc. Lock Washer	X-195	X-195
Brush Holding Screw	8X-47	8X-47
Brush Lead Screw	8X-59	8X-59
Brush Lead Sc. Lock Washer	X-1276	X-1276
Brush - Main	GAL-12	GAL-12
Brush Plate	GAL-199	GAL-199
Brush Spring Grounded	GAL-243	GAL-243
Brush Spring Insulated	GAL-243	GAL-243
C.E. Plate Part Assembly	GAR-1235	GAR-1235A
Ground Lead	GAL-204	GAL-204
Ground Lead Terminal	X-958	X-958
Ground Screw	8X-304	8X-304
Ground Sc. Lock Washer	X-195	X-195
3rd Brush Plate Ret'g Spring	GAL-205	GAL-205
3rd Brush Ret'g Spring Screw	8X-63	8X-63
3rd Brush Plate Assembly	GAR-2210	GAR-2210
Brush Holder	GAL-242	GAL-242
Brush Holding Screw	8X-47	8X-47
Br. Holding Sc. Lock Washer	X-195	X-195
Brush Lead Screw	8X-59	8X-59
Br. Lead Sc. Lock Washer	X-1276	X-1276
Brush Plate	GAL-199	GAL-199
Brush Spring Third	GAL-243	GAL-243
Brush - Third	GAL-13	GAL-13
3rd Brush Plate	GAR-1210	GAR-1210

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAR TYPE GENERATORS

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DRIVE END HEAD ASSEMBLY

Name of Part	GAL-1063	GAL-1109A	GAL-1149	GAL-1306	GAL-1306A
Baffle Plate			GT-98		
Bearing D.E.	X-295	X-441	GT-94	X-298	X-29E
Bearing Retaining Gasket		GK-85			
Bearing Retainer - Inner	GG-6	GG-6		GX-9	GX-9
Bearing Retainer - Outer	GG-6				
D. E. Head	GAL-63	GAL-109		GAL-306	GAL-306A
Escutcheon Pin			X-233		
Felt Guard - Inner				GBC-25	GBC-25
Felt Guard - Outer	GK-176			DB-17	DB-17
Felt Washer - Inner		GG-164		GAR-95	GAR-95
Felt Washer - Outer	GG-164			GW-29	GW-29
Oiler	X-489			X-489	X-489
Pin			GK-100		
Retainer Holding Lock Washer	X-196	X-196		X-196	X-196
Retainer Holding Nut	8X-173				
Retainer Holding Screw	8X-316	8X-311		8X-311	8X-311

Name of Part	GAM-1003	GAM-2048A	GAR-1062B	GAR-1076	GAR-1096
Bearing D. E.	X-295	X-295	X-295	X-295	X-378
Bearing Retainer Gasket		GAM-86			GX-10
Bearing Retainer - Inner	GAM-30	GAM-85	GAR-64	GAR-64	GX-9
Bearing Retainer - Outer			GAR-64	GAR-64	
D. E. Head	GAM-1003S	GAM-1048A	GAR-62A	GAR-76	GAR-96
Felt Guard - Inner	GAM-34	GAM-34	GAR-63	GAR-63	
Felt Guard - Outer	GAM-32		GAR-63	GAR-63	
Felt Washer - Inner		GG-164	GG-164	GG-164	GAR-95
Felt Washer - Outer	GAM-33	GG-164	GG-164	GG-164	
Oiler		X-390	X-489	X-489	
Retainer Holding Lock Washer	X-196	X-196	X-1270	X-196	X-196
Retainer Holding Nut			8X-173	8X-173	
Retainer Holding Screw	8X-312	8X-312	8X-1003	8X-1003	8X-311

Name of Part	GAR-1104	GAR-1105	GAR-1126A	GAR-1173	GAR-1182
Bearing D. E.	X-378	X-378	X-441	X-378	X-298
Bearing Retainer Gasket		GX-10	GK-85	GX-10	
Bearing Retainer - Inner		GX-9	GG-6	GX-9	GAR-178
Bearing Retainer - Outer	GAE-47				GAR-178
D. F. Head	GAR-104	GAR-105	GAR-126	GAR-173	GAR-182
Felt Guard - Inner					GAR-179
Felt Guard - Outer					GAR-179
Felt Washer - Inner			GG-164	GAR-95	GJ-147
Felt Washer - Outer					GJ-147
Oiler			X-489		X-489
Retainer Holding Lock Washer		X-196	X-196	X-196	X-196
Retainer Holding Nut					8X-173
Retainer Holding Screw	8X-66	8X-311	8X-311	8X-311	8X-306

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAR TYPE GENERATORS

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DRIVE END HEAD ASSEMBLY

Name of Part	GAR-1192	GAR-1196	GBJ-1003C	GBJ-1003D
Bearing D. E.	X-378	X-378	X-295	X-295
Bearing Retainer Gasket		GX-10		
Bearing Retainer - Inner		GX-9	GAR-64	GAR-64
Bearing Retainer - Outer	GAE-47		GAR-64	GAR-64
D. E. Head	GAR-192	GAR-196	GBJ-3C	GBJ-3D
Felt Guard - Inner			GAR-63	GAR-63
Felt Guard - Outer			GAR-63	GAR-63
Felt Washer - Inner			GG-164	GG-164
Felt Washer - Outer			GG-164	GG-164
Oiler			X-489	X-489
Retainer Holding Lock Washer		X-196	X-196	X-196
Retainer Holding Nut			8X-173	8X-173
Retainer Holding Screw	8X-66	8X-311	8X-1003	8X-1003

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAR TYPE GENERATORS

FRAME & FIELD ASSEMBLY

Name of Part	GAR-2034	GAR-2052	GAR-2054	GAR-2054A	GAR-2055
Aligning Dowel		GAR-21			
Dowel Pin	MN-21	MN-21	MN-21	MN-21	MN-21
Field Coil Assy.- Comp.	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S
Field Connection Ins.	GAL-44	GAL-44	GAL-44	GAL-44	GAL-44
Fuse Holder		GAL-1224	GAL-1224	GAL-1224	GAL-1224
Fuse Holder Mtg. Lock Washer		X-195	X-195	X-195	X-195
Fuse Holder Mtg. Screw		8X-59	8X-59	8X-59	8X-59
Grommet	GAR-211	GAR-211	GAR-211	GAR-211	GAR-211
Pole Piece	GAR-29	GAR-29	GAR-29	GAR-29	GAR-29
Pole Piece Screw	GK-38	GK-38	GK-38	GK-38	GK-38

Name of Part	GAR-2067	GAR-2070	GAR-2084	GAR-2090	GAR-2094
Dowel Pin	MN-21	MN-21	MN-21	MN-21	MN-21
Field Coil Assy.- Comp.	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S
Field Connection Ins.	GAL-44	GAL-44	GAL-44	GAL-44	GAL-44
Fuse Holder	GAL-1224	GAL-1224	GAL-1224		
Fuse Holder Mtg. Lock Washer	X-195	X-195	X-195		
Fuse Holder Mtg. Screw	8X-59	8X-59	8X-59		
Grommet	GAR-211	GAR-211	GAR-211	GAR-211	GAR-211
Pole Piece	GAR-29	GAR-29	GAR-29	GAR-29	GAR-29
Pole Piece Screw	GK-38	GK-38	GK-38	GK-38	GK-38

Name of Part	GAR-2111	GAR-2117	GAR-2121	GAR-2122	GAR-2122A
Dowel Pin	MN-21	MN-21	MN-21	MN-21	MN-21
Field Coil Assy.- Comp.	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S
Field Connection Ins.	GAL-44	GAL-44	GAL-44	GAL-44	GAL-44
Fuse Holder	GAL-1224				
Fuse Holder Mtg. Lock Washer	X-195				
Fuse Holder Mtg. Screw	8X-59				
Grommet	GAR-211	GAR-211	GAR-211	GAR-211	GAR-211
Pole Piece	GAR-29	GAR-29	GAR-29	GAR-29	GAR-29
Pole Piece Screw	GK-38	GK-38	GK-38	GK-38	GK-38

Name of Part	GAR-2122B	GAR-2128	GAR-2128A	GAR-2132	GAR-2134
Bracket		GAG-125S			
Bracket Mtg. Lock Washer		X-203			
Bracket Mtg. Screw		X-113			
Dowel Pin	MN-21	MN-21	MN-21	MN-21	MN-21
Field Coil Assy.- Comp.	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S
Field Connection Ins.	GAL-44	GAL-44	GAL-44	GAL-44	GAL-44
Fuse Holder		GAL-1224	GAL-1224		
Fuse Holder Mtg. Lock Washer		X-195	X-195		
Fuse Holder Mtg. Screw		8X-59	8X-59		
Grommet	GAR-211	GAR-211	GAR-211	GAR-211	GAR-211
Pole Piece	GAR-29	GAR-29	GAR-29	GAR-29	GAR-29
Pole Piece Screw	GK-38	GK-38	GK-38	GK-38	GK-38

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GAR TYPE GENERATORS

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FRAME & FIELD ASSEMBLY

Name of Part	GAR-2136	GAR-2139	GAR-2153	GAR-2157	GAR-2174
Aligning Dowel				GAL-148	
Bracket	GAG-125S				
Bracket Mtg. Lock Washer	X-203				
Bracket Mtg. Screw	8X-113				
Dowel Pin	MN-21	MN-21	MN-21	MN-21	MN-21
Field Coil Assy.- Comp.	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S
Field Connection Ins.	GAL-44	GAL-44	GAL-44	GAL-44	GAL-44
Fuse Holder					GAL-1224
Fuse Holder Mtg. Lock Washer					X-195
Fuse Holder Mtg. Screw					8X-59
Grommet	GAR-211	GAR-211	GAR-211	GAR-211	GAR-211
Pole Piece	GAR-29	GAR-29	GAR-29	GAR-29	GAR-29
Pole Piece Screw	GK-38	GK-38	GK-38	GK-38	GK-38

Name of Part	GAR-2179	GAR-2185	GAR-2193	GAR-2276	GAR-2285
"A" Terminal Ins. Bushing		GAA-31	GAA-31		
"A" Terminal Lock Washer		X-193	X-193		
"A" Terminal Nut		8X-177	8X-177		
"A" Terminal Plain Washer		8X-361	8X-361		
"A" Term. Post Ins. - Lower		GBW-66	GBW-66		
"A" Term. Post Ins. - Upper		GAA-32	GAA-32		
Aligning Dowel	GAL-148				
Dowel Pin	MN-21		MN-21	MN-21	MN-21
Field Coil Assy.- Comp.	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S
Field Connection Ins.	GAL-44	GAL-44	GAL-44	GAL-44	GAL-44
"F" Terminal Ins. Bushing		GAA-31	GBF-54		
"F" Terminal Lock Washer		X-193	X-196		
"F" Terminal Nut		8X-177	8X-1377		
"F" Terminal Plain Washer		8X-361	8X-349		
"F" Term. Post Ins. - Lower		GBW-66	GBW-67		
"F" Term. Post Ins. - Upper		GAA-32	GBW-34		
Grommet	GAR-211			GAR-211	GAR-211
Lead Assembly		GAM-73	GBJ-31		
Terminal Post "A"		GAA-27	GAA-27		
Terminal		X-947	X-1425		
Pole Piece	GAR-29	GAR-29	GAR-29	GAR-29	GAR-29
Pole Piece Screw	GK-38	GK-38	GK-38	GK-38	GK-38

Name of Part	GAR-2287	GAR-2287A	GAR-2304	GAR-3054	GAR-3057
Aligning Dowel					GAL-148
Dowel Pin	MN-21	MN-21	MN-21	MN-21	MN-21
Field Coil Assy.- Comp.	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S
Field Connection Ins.	GAL-44	GAL-44	GAL-44	GAL-44	GAL-44
Fuse Holder	GAL-1224	GAL-1224	GAL-1224	GAL-1224	
Fuse Holder Mtg. Lock Washer	X-195	X-195	X-195	X-195	
Fuse Holder Mtg. Screw	8X-59	8X-59	8X-59	8X-59	
Grommet	GAR-211	GAR-211	GAR-211	GAR-211	GAR-211
Pole Piece	GAR-29	GAR-29	GAR-29	GAR-29	GAR-29
Pole Piece Screw	GK-38	GK-38	GK-38	GK-38	GK-38

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GAR TYPE GENERATORS

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FRAME & FIELD ASSEMBLY

Name of Part	GAR-3128	GAR-3128A	GAR-3136	GAR-3309
Bracket	GAG-125S		GAG-125S	
Bracket Mtg. Lock Washer	X-203		X-203	
Bracket Mtg. Screw	X-113		X-113	
Dowel Pin	MN-21	MN-21	MN-21	MN-21
Field Coil Assy.- Comp.	GAL-1005S	GAL-1005S	GAL-1005S	GAL-1005S
Field Connection Ins.	GAL-44	GAL-44	GAL-44	GAL-44
Fuse Holder	GAL-1224	GAL-1224		
Fuse Holder Mtg. Lock Washer	X-195	X-195		
Fuse Holder Mtg. Screw	8X-59	8X-59		
Grommet	GAR-211	GAR-211	GAR-211	GAR-211
Pole Piece	GAR-29	GAR-29	GAR-29	GAR-29
Pole Piece Screw	GK-38	GK-38	GK-38	GK-38

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAR TYPE GENERATORS

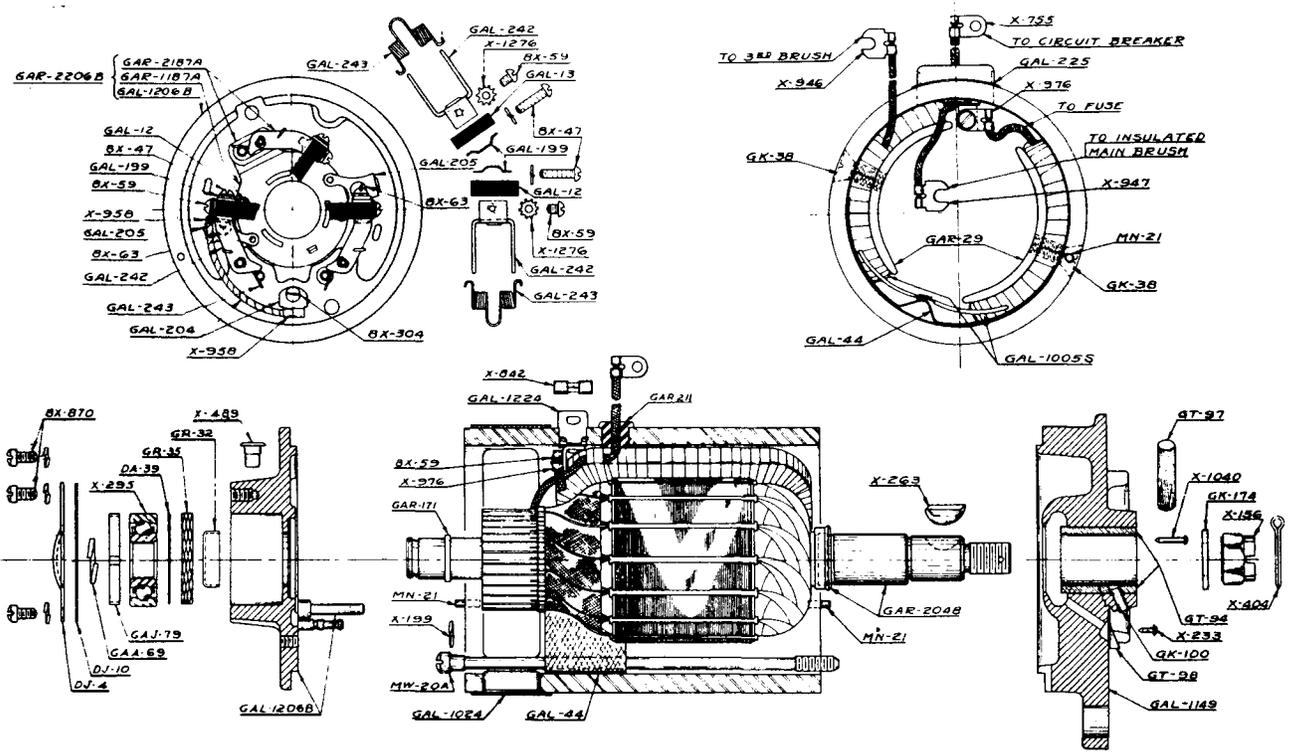


Figure 3

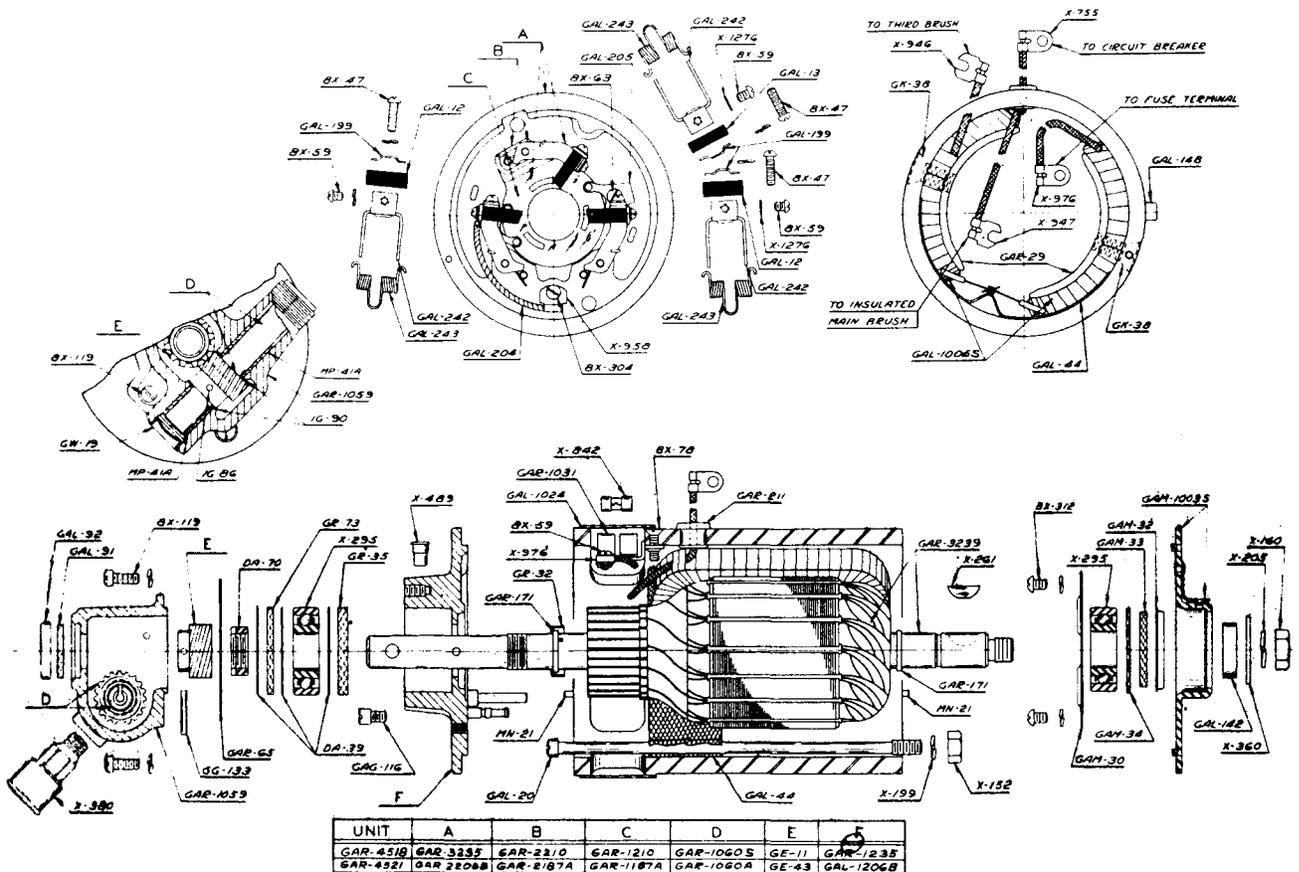


Figure 4

(Issued 5-2-41)

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAR TYPE GENERATORS

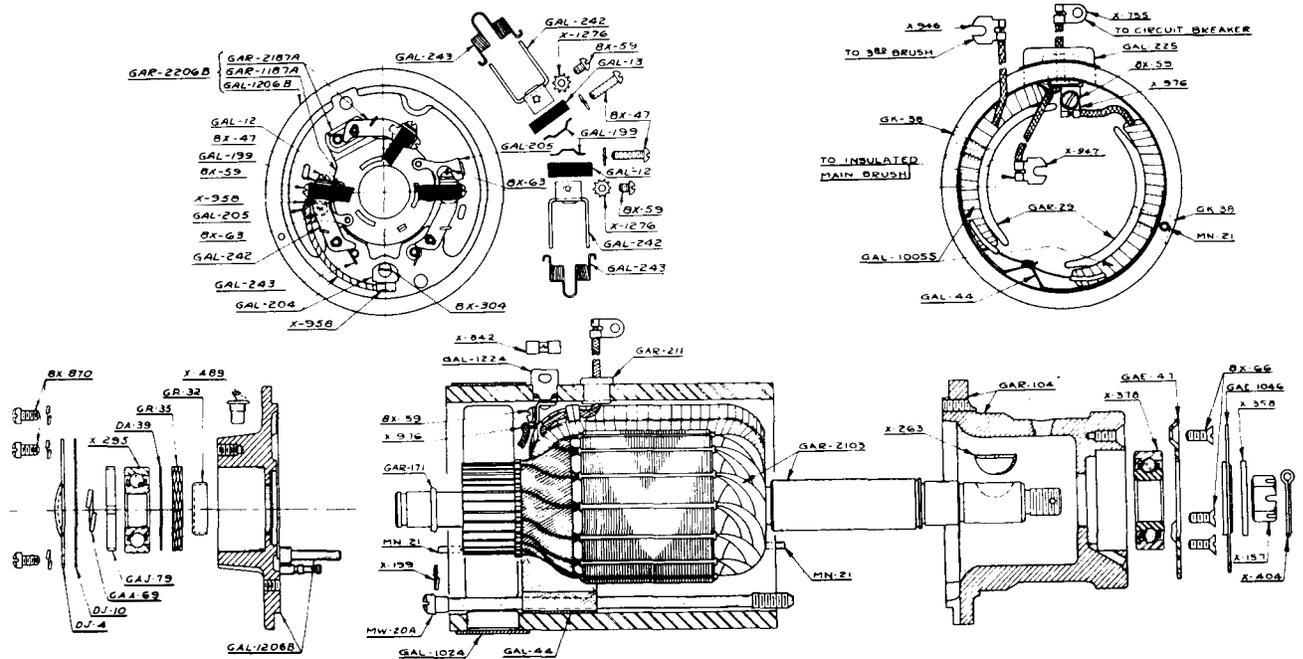
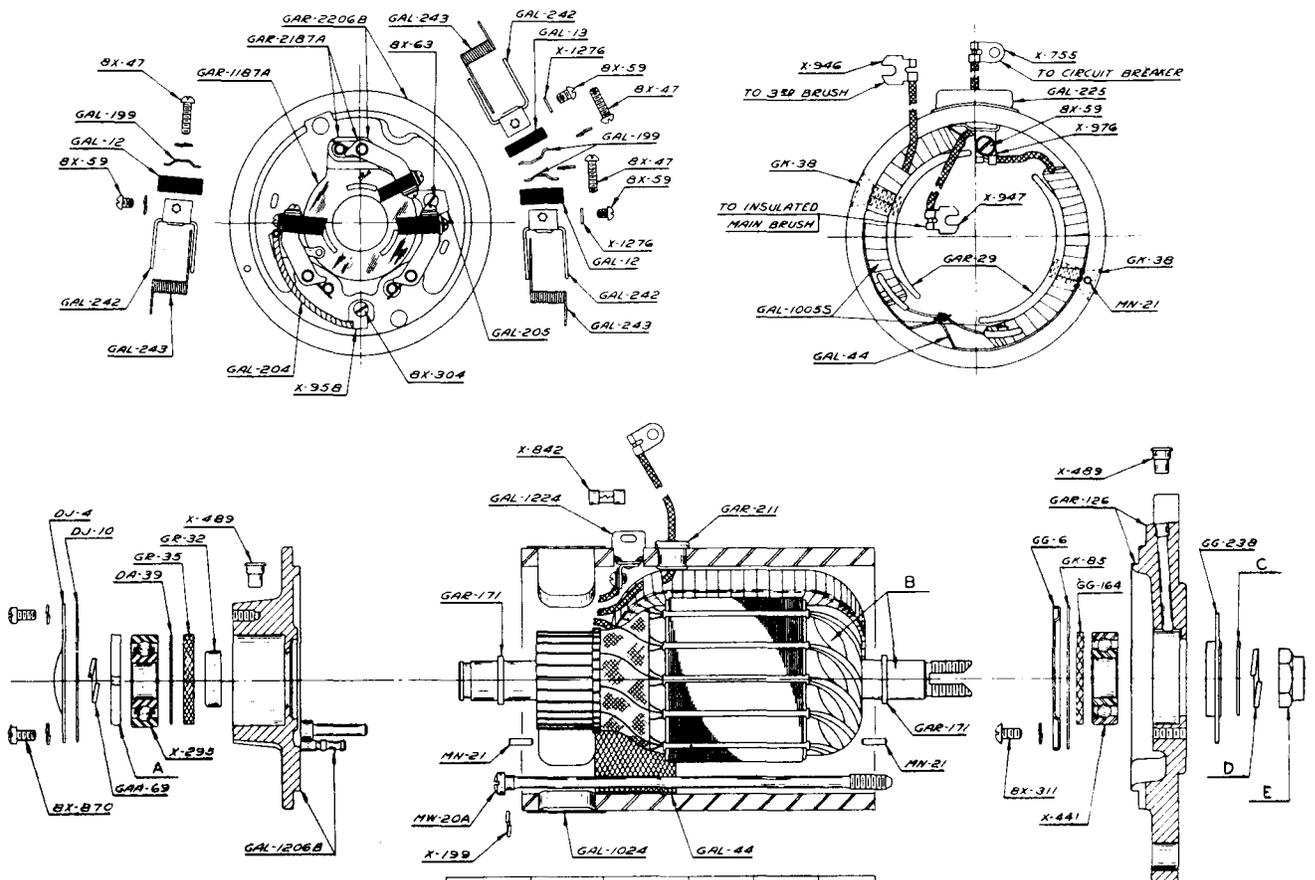


Figure 7



UNIT	A	B	C	D	E
GAR-4534	GAJ-79	GAR-2125	NONE	NONE	NONE
GAR-4537	NONE	GAR-2127	MF-80	X-1018	GY-3

Figure 8

(Issued 5-2-41)

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAR TYPE GENERATORS

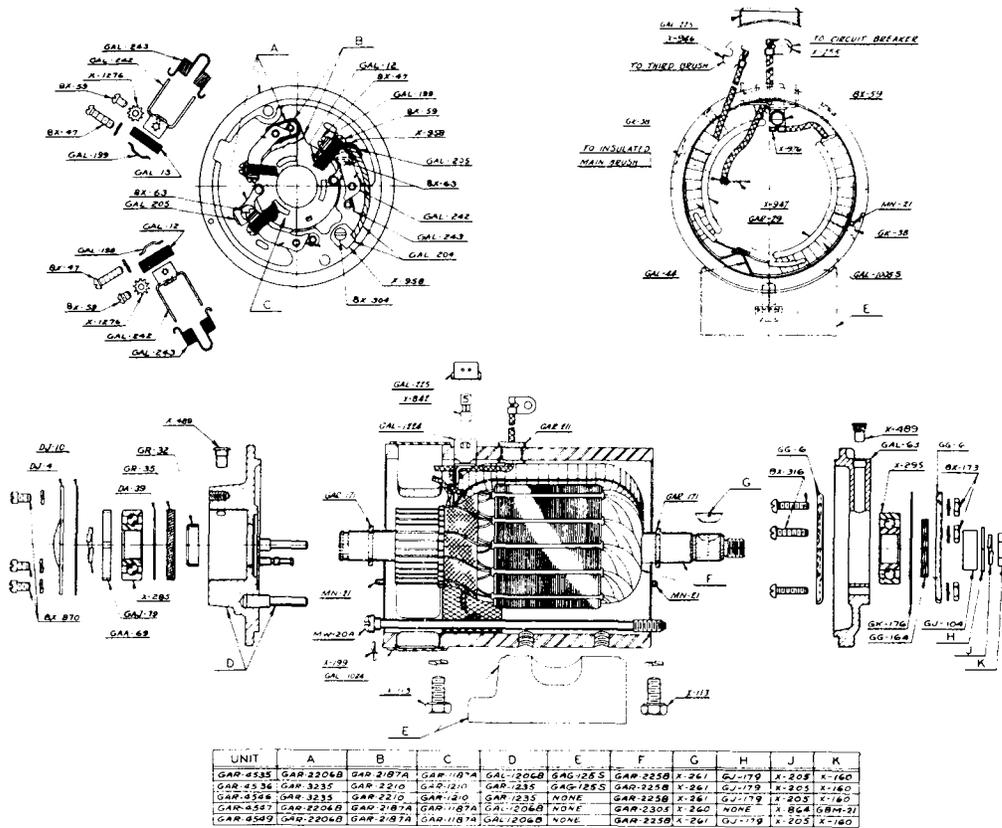


Figure 9

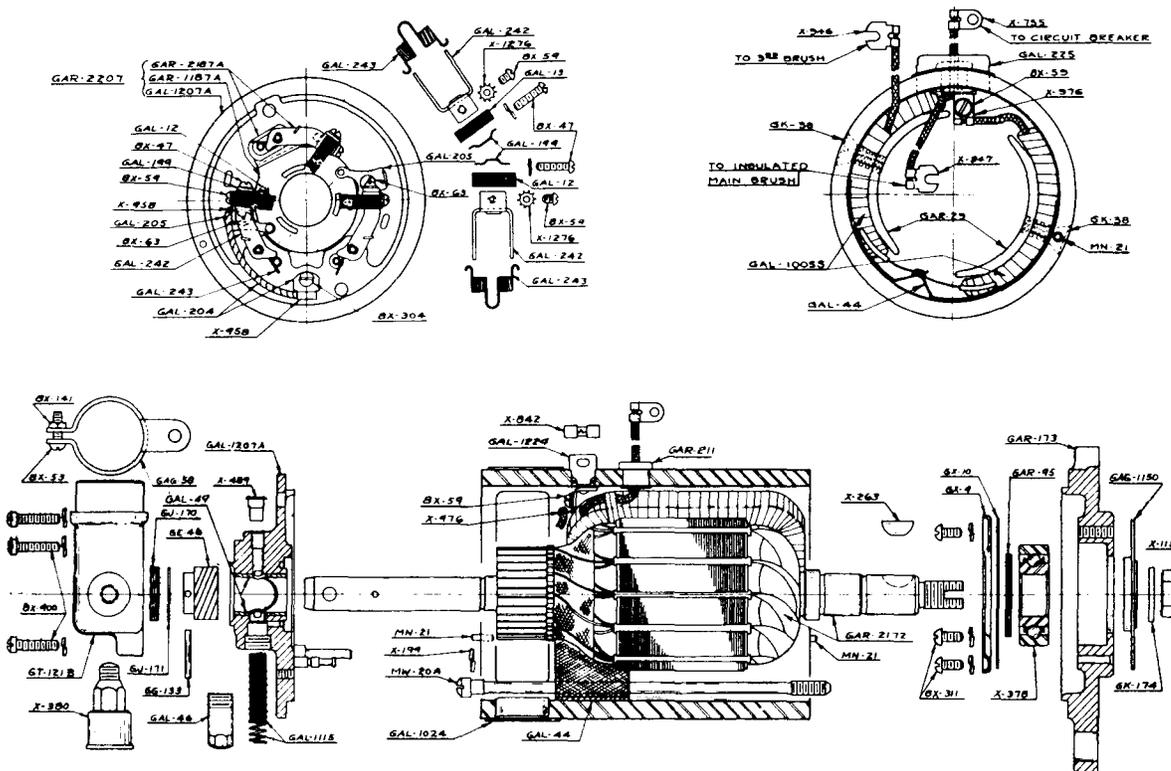


Figure 10

(Issued 5-2-41)

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAR TYPE GENERATORS

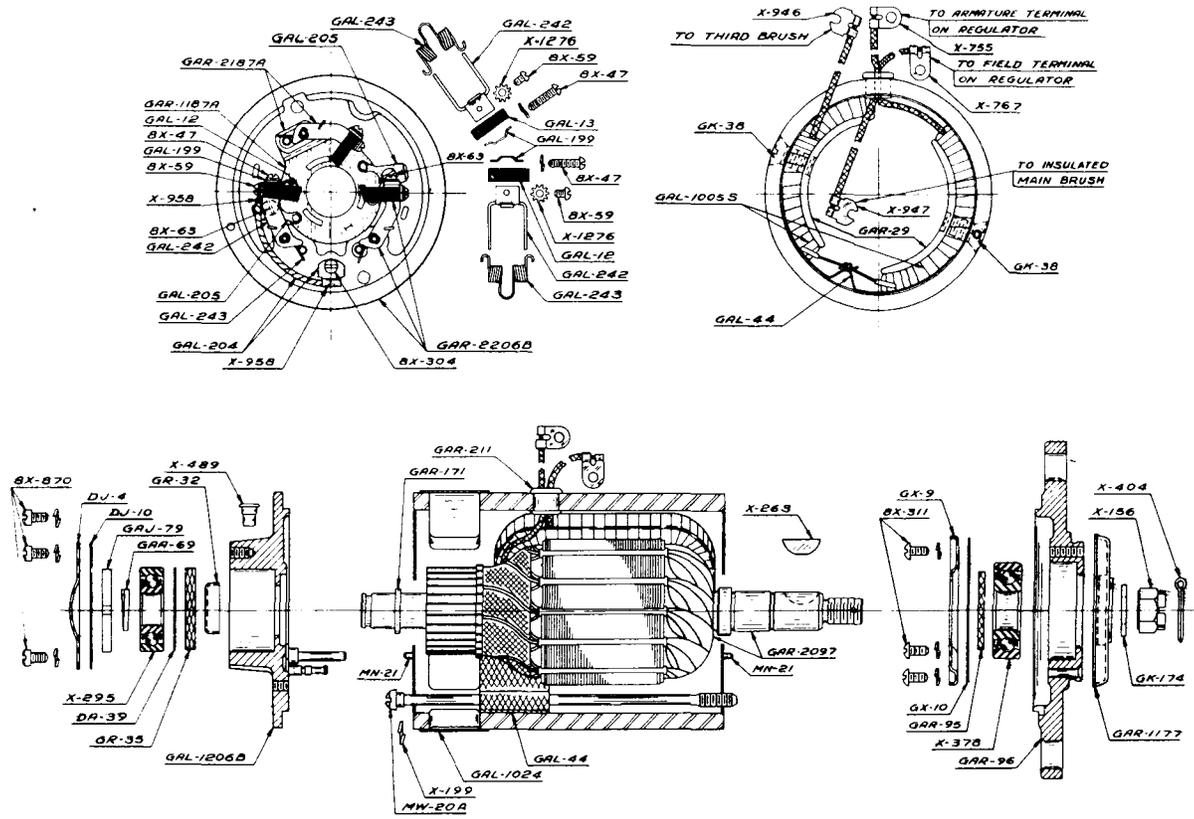


Figure 13

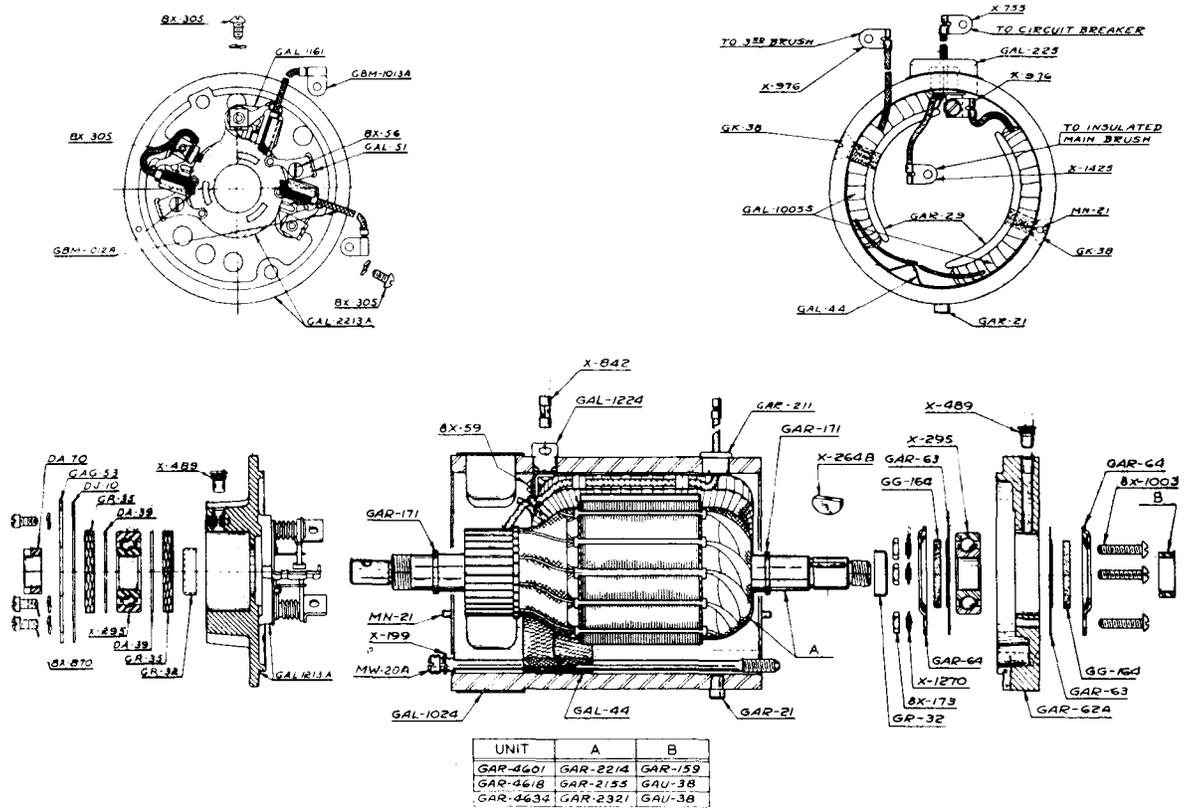


Figure 14

(Issued 5-2-41)

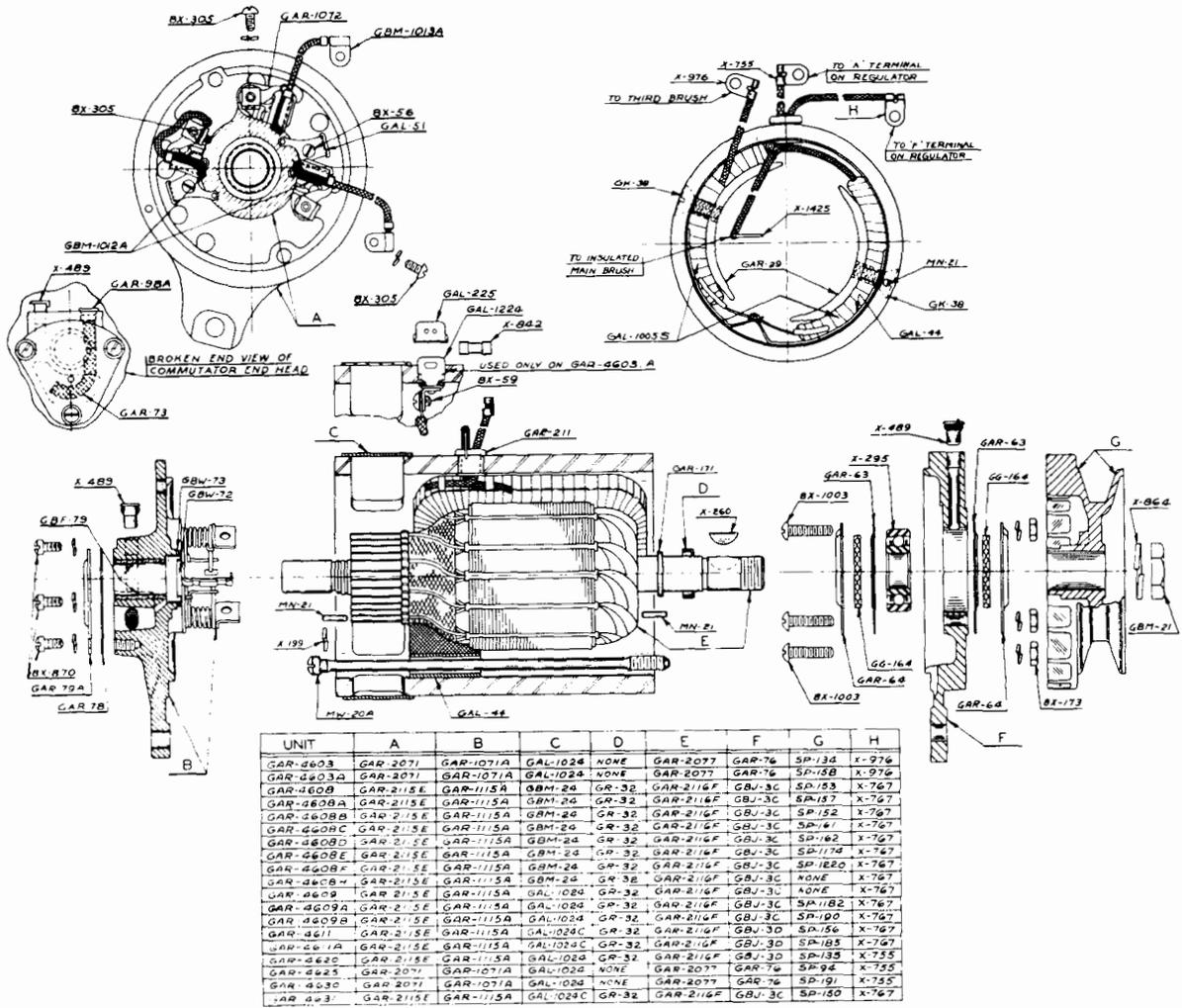


Figure 15

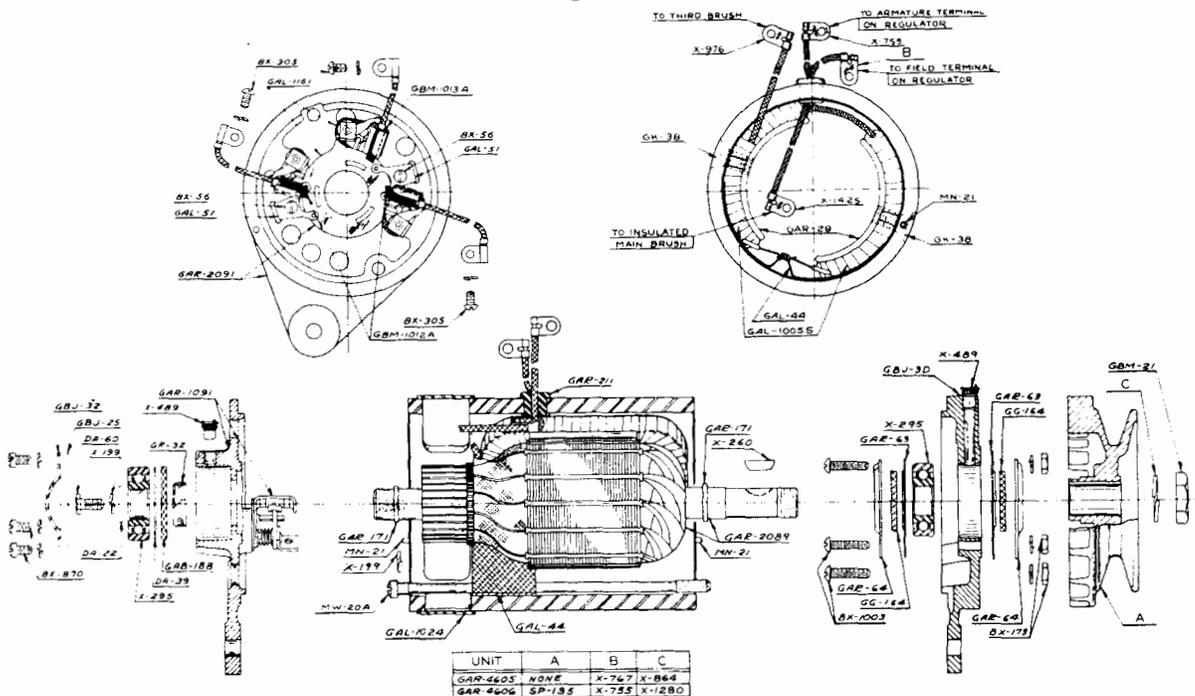


Figure 16

(Issued 5-2-41)

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAR TYPE GENERATORS

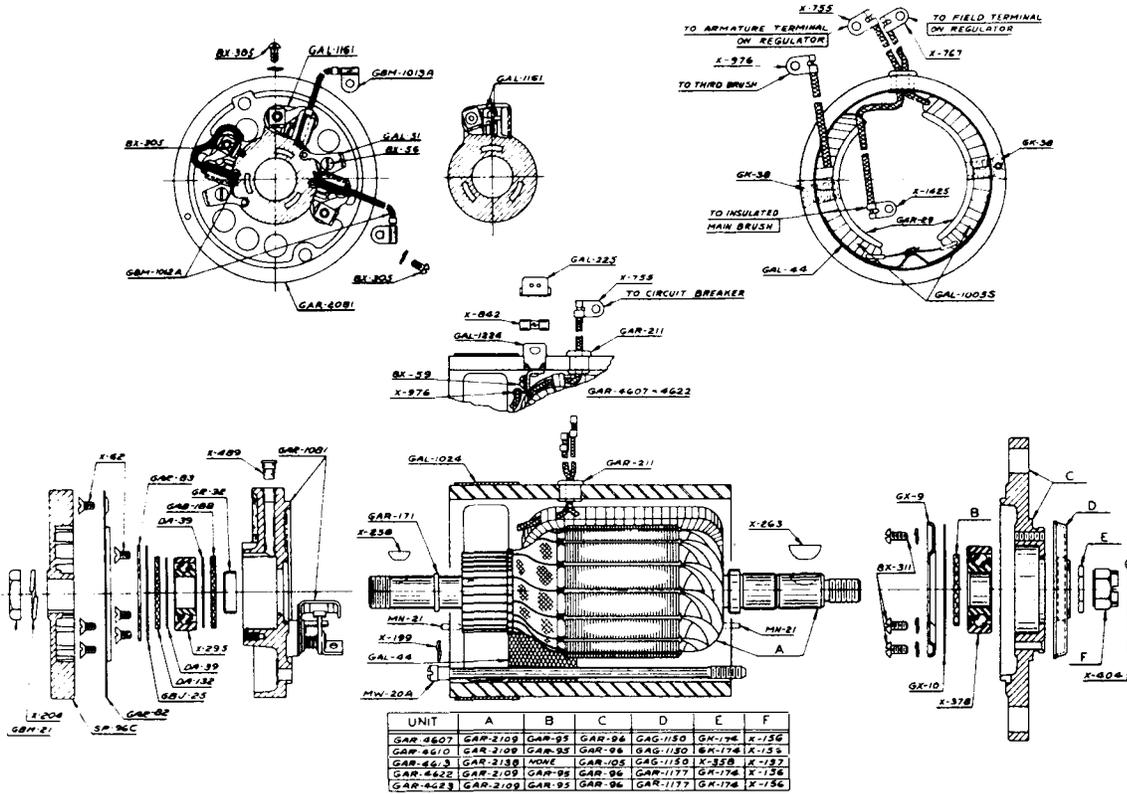


Figure 17

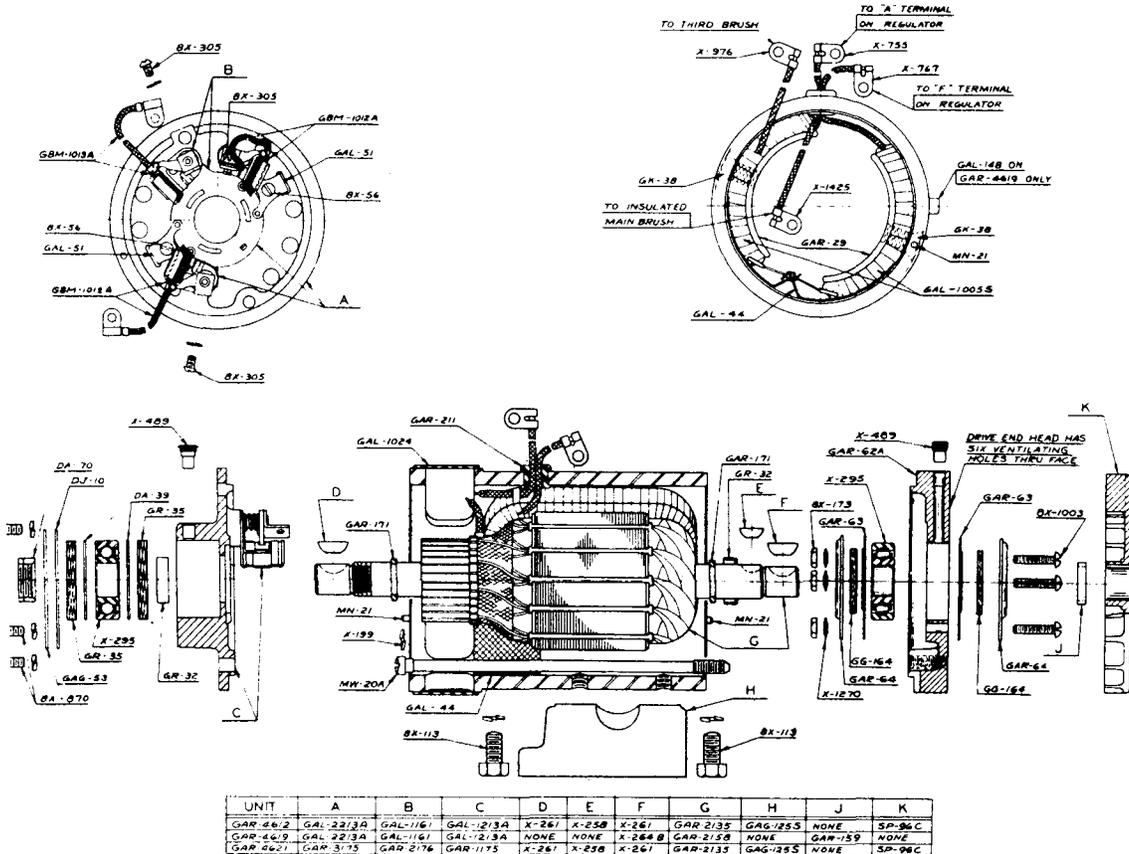
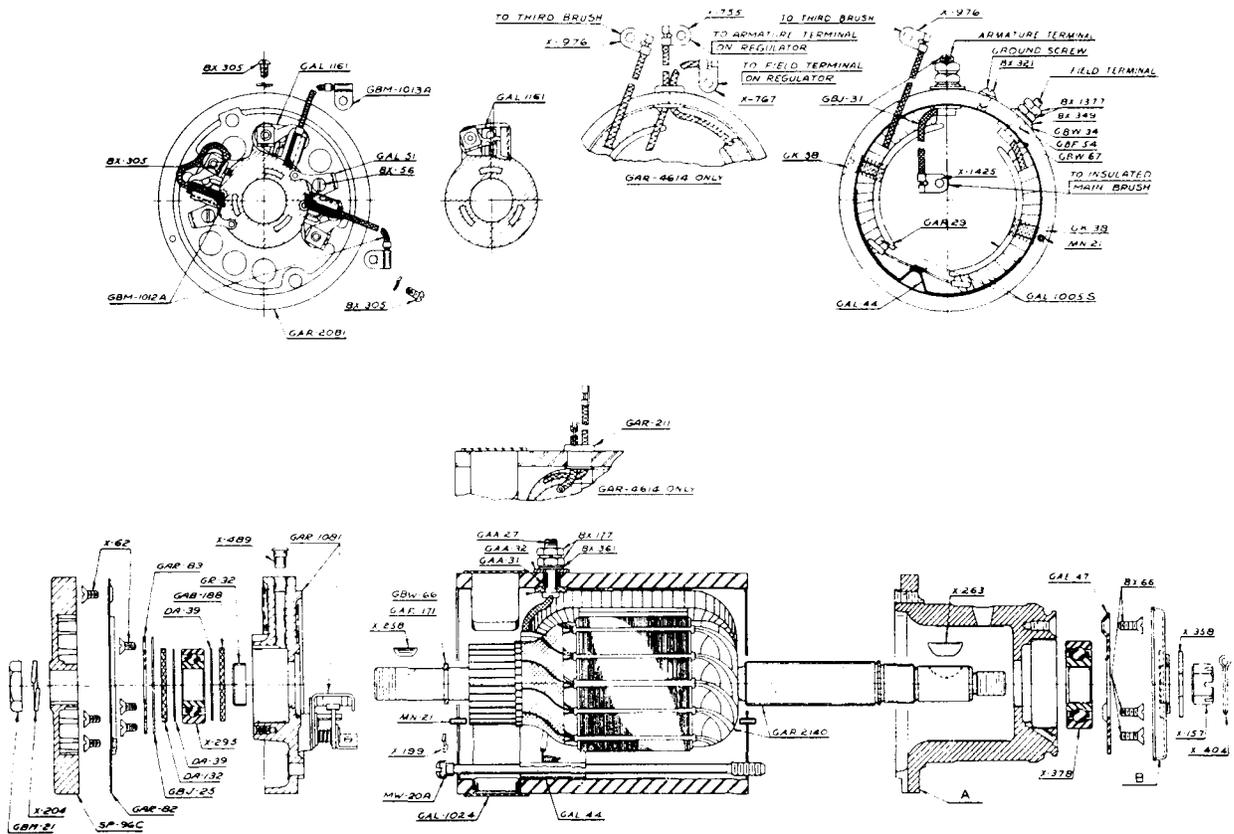


Figure 18

(Issued 5-2-41)

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAR TYPE GENERATORS



UNIT	A	B
GAR-4618	GAR-108	GAE-1044
GAR-4635	GAR-192	DC-1144

Figure 19

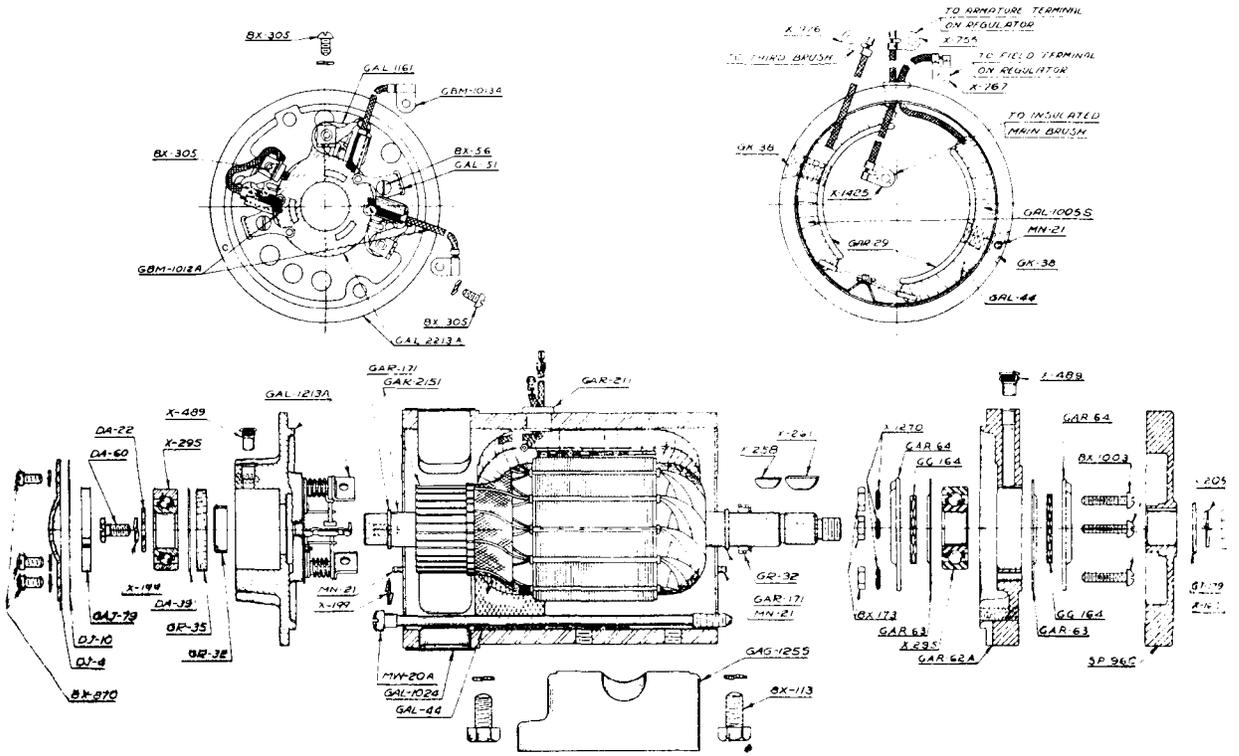


Figure 20

(Issued 5-2-41)

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAR TYPE GENERATORS

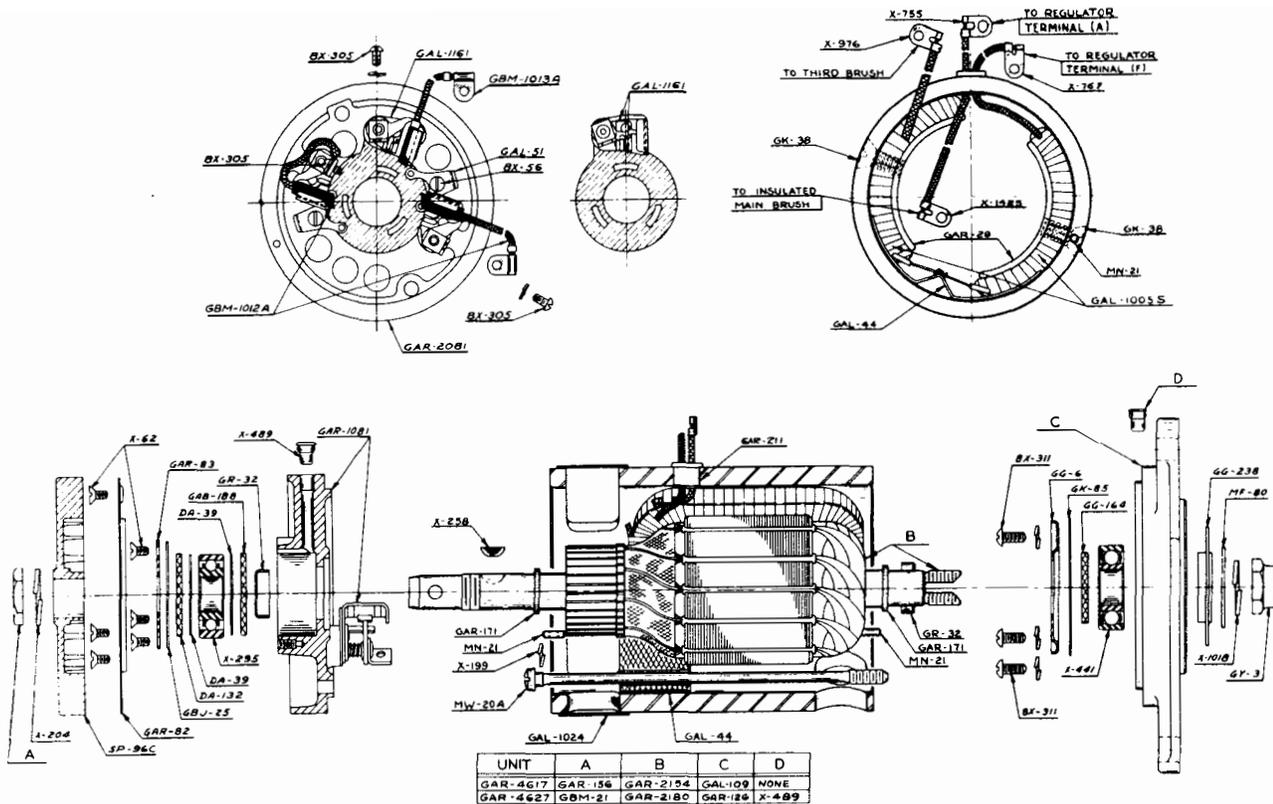


Figure 21

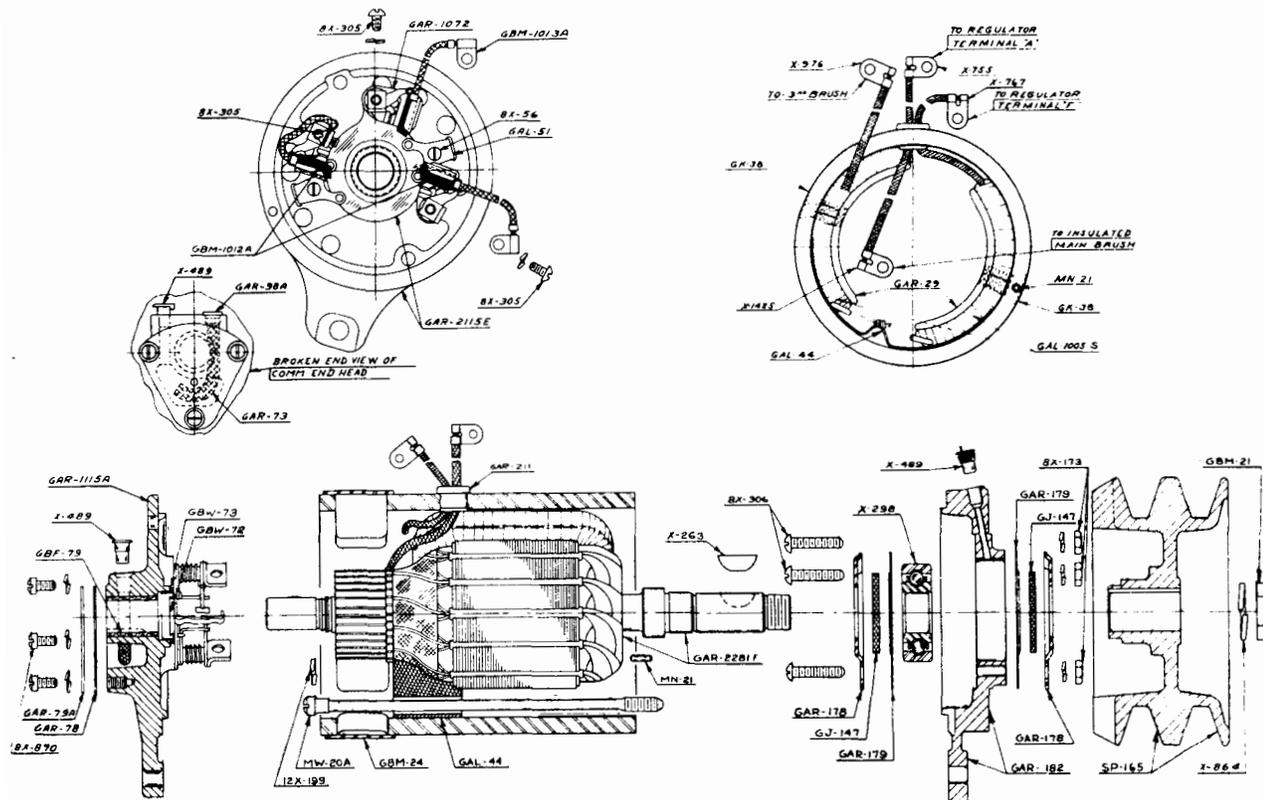


Figure 22

(Issued 5-2-41)

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAR TYPE GENERATORS

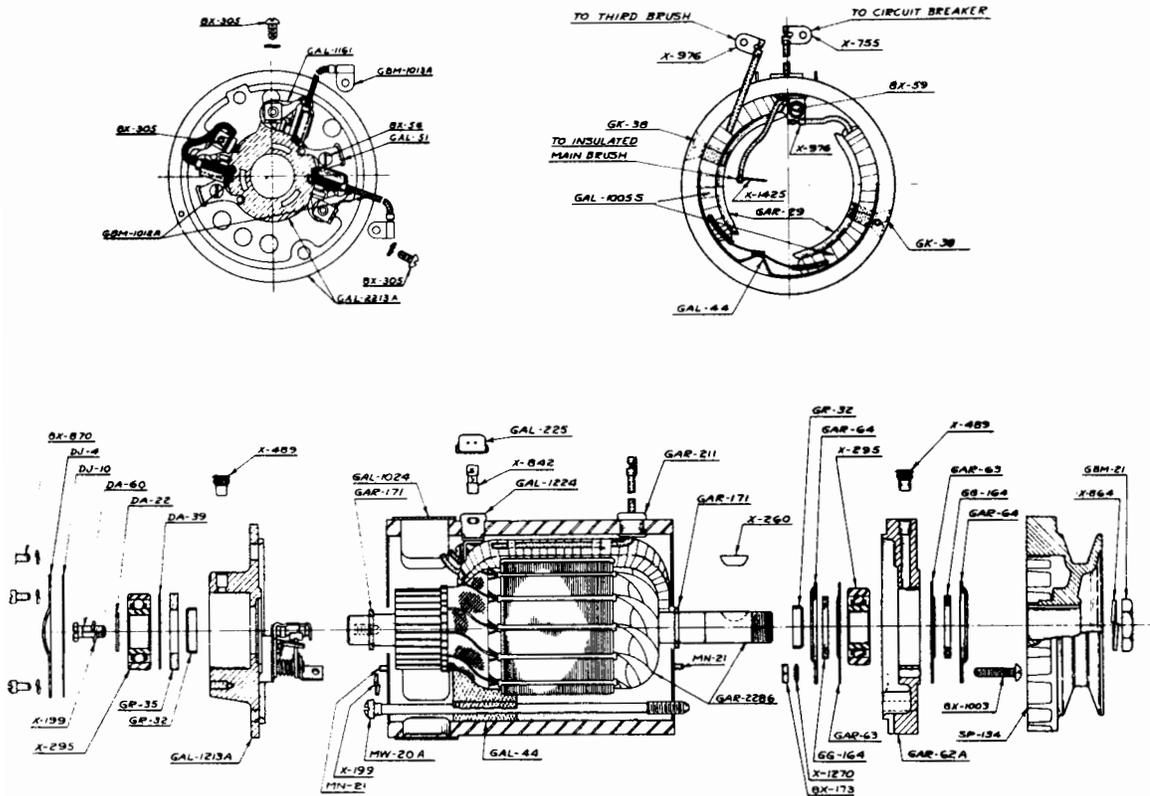
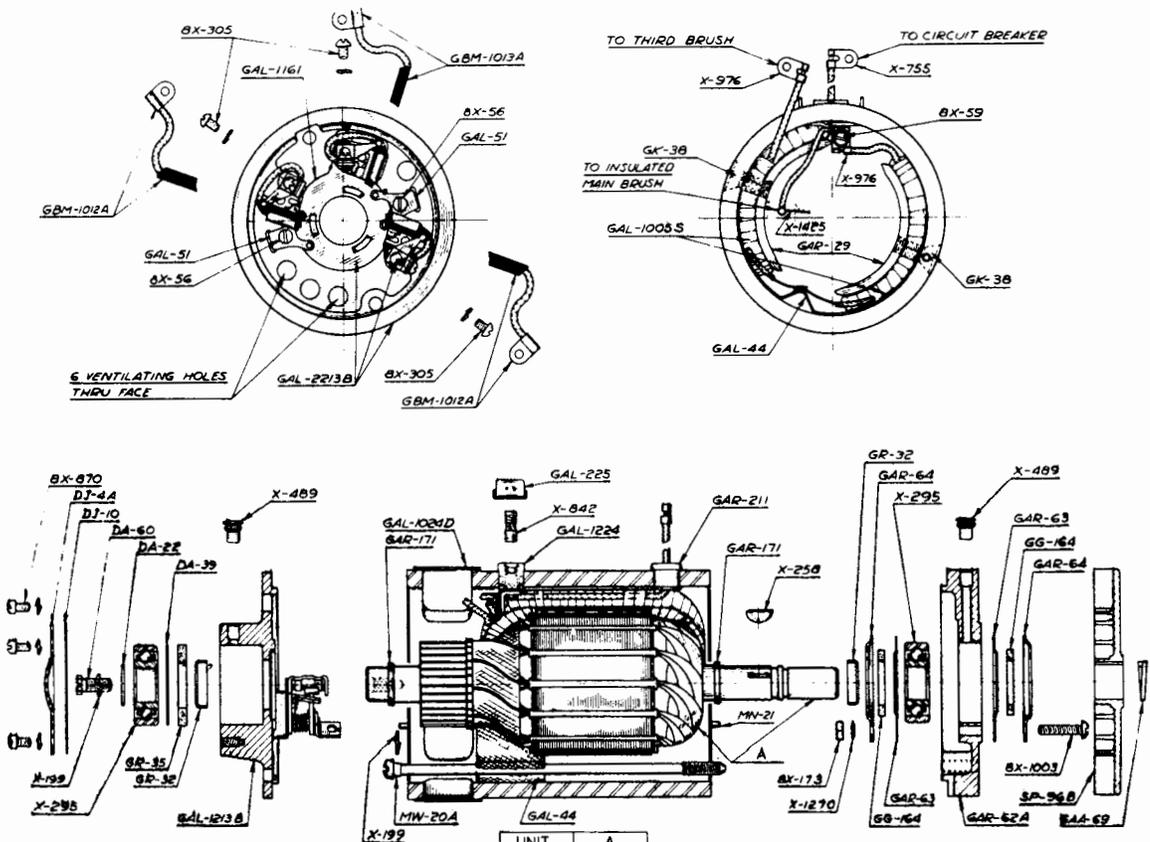


Figure 23



UNIT	A
GAR-4632	GAR-2312
GAR-4633	GAR-2318

Figure 24

(Issued 5-2-41)

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAR TYPE GENERATORS

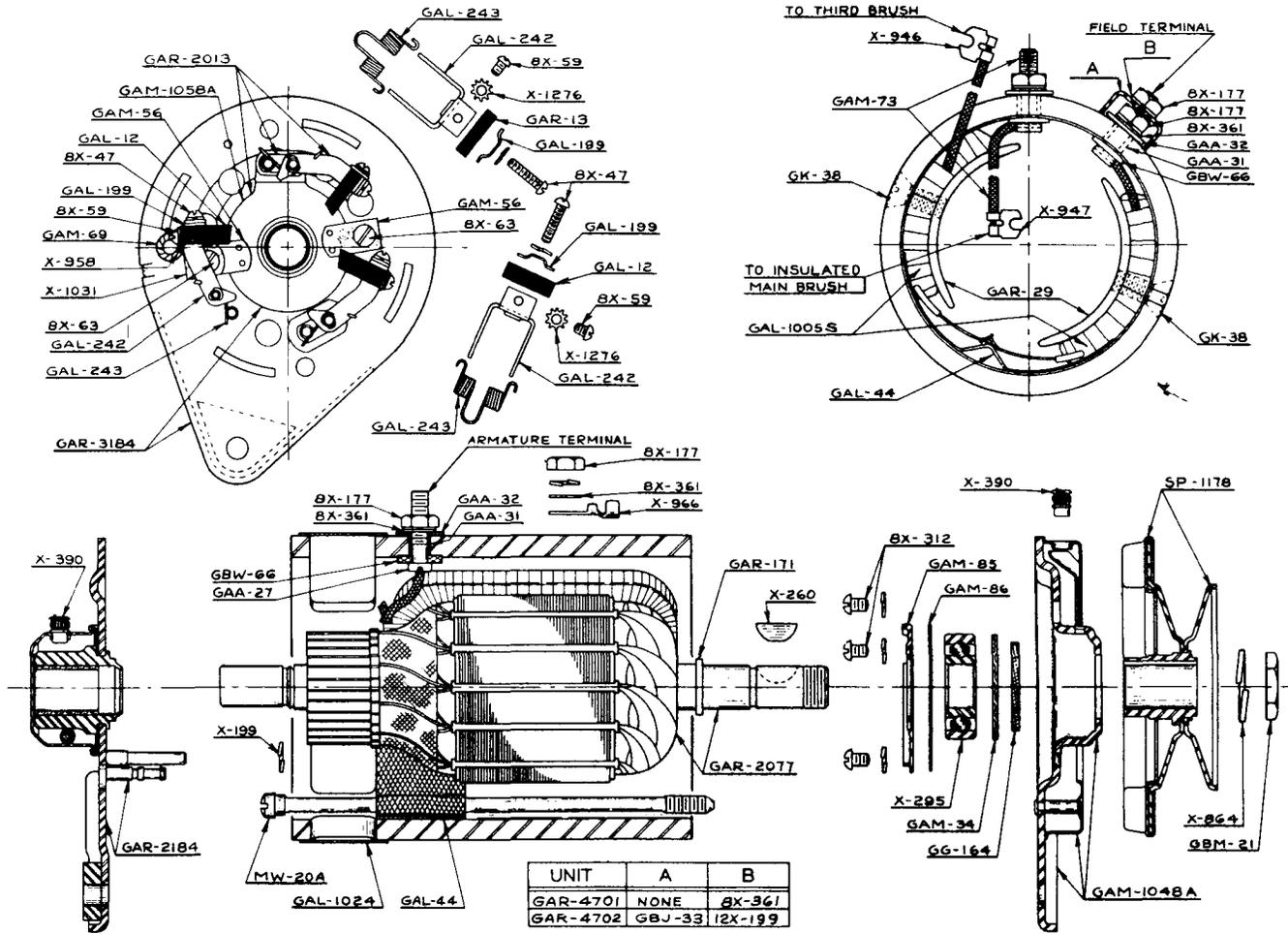
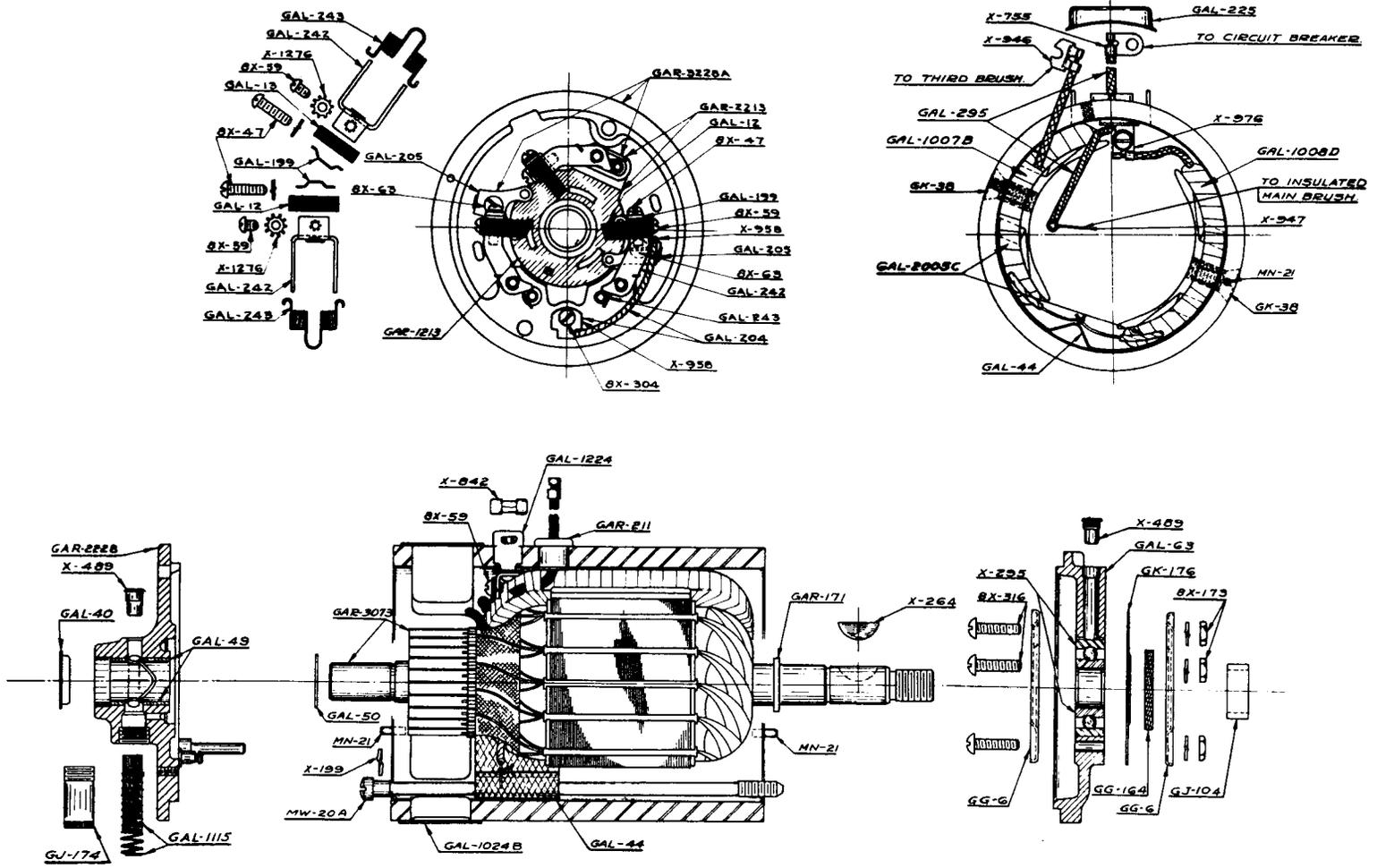


Figure 25

(Issued 5-2-41)

GAR-4520 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAR-4542 GENERATOR PARTS LIST

GAR-4542

Frame & Field Assembly & Parts Used With				
Part No.	No. Used	Name of Part		
		1	2	3 4 5
GAL-225	1	Cover, Fuse		
(GAR-3054)	1	Frame & Field Assy.		
GAL-44	1	Insulation, Field Connection		
GAL-1224	1	Holder, Fuse		
GAL-2005C	1	Coil Assy., Field, Comp.		
GAL-1007B	1	Coil Assy., Field, Left		
GAL-295	1	Lead Assy.		
X-755	1	Terminal		
X-947	1	Terminal		
X-946	1	Terminal		
GAL-1008D	1	Coil Assy., Field, Right		
X-976	1	Terminal		
GAR-211	1	Bushing, Insulating		
GK-38	2	Screw, Pole Shoe		
MN-21	2	Pin, Dowel, Head Locating		
8X-59	1	Screw, Lead, Rd. hd., #8-32x3/16		
X-195	1	Washer, Lock, Lead Sc., #8		
MW-20A	2	Bolt, Thru		
X-199	2	Washer, Lock, Thru Bolt, 1/4		
X-842	1	Fuse, 5 Amps.		
Comm. End Head Assembly & Parts Used With				
DA-39	1	Washer, Plain, Felt Retaining		
DJ-4	1	Cover, Comm. End		
DJ-10	1	Gasket, C.E. Cover		
GAA-69	1	Lock Ring		
GAJ-79	1	Spacer, Bearing		
(GAR-3235)	1	Head Assy., Comm. End		
GAL-12‡	2	Brush, Main		
GAL-199	2	Block, Brush Screw		
GAL-204	1	Lead Assy., Ground		
X-958	2	Terminal		
GAL-205	2	Spring, Retaining, 3rd. Brush Plate		
GAL-242	2	Holder, Brush		
GAL-243	2	Spring, Brush		
GAR-1235	1	Head, Comm. End		
GAR-2210	1	Plate Assy., 3rd. Brush		
GAL-13‡	1	Brush, Third		
GAL-199	1	Block, Brush Screw		
GAL-242	1	Holder, Brush		
GAL-243	1	Spring, Brush		
GAR-1210	1	Plate, 3rd. Brush		
8X-47	1	Screw, Brush, Rd. hd., #8-32x9/16		
8X-59	1	Screw, Lead, Rd. hd., #8-32x3/16		
X-195	1	Washer, Lock, Brush Screw, #8		
X-1276	1	Washer, Skpf., Lead Screw, #8		
		1	2	3 4 5

Comm. End Head Assembly (Continued)				
Part No.	No. Used	Name of Part		
		1	2	3 4 5
8X-47	2	Screw, Brush, Rd. hd., #8-32x9/16		
8X-59	2	Screw, Lead, Rd. hd., #8-32x3/16		
8X-63	2	Screw, Plate Retaining, Flat hd., #8-32x3/8		
X-195	4	Washer, Lock, Brush & Lead Screw, #8		
8X-304	1	Screw, Ground, Rd. hd., #8-32x5/16		
X-1276	1	Washer, Skpf., Lead Sc., #8		
GR-32	1	Retainer, Felt Washer		
GR-35	1	Washer, Felt		
X-295	1	Bearing, Ball, S.A.E. #203		
X-489	1	Oiler, Hinge Top, Press in, 1/4		
X-544	3	Washer, Lock, Cover Holding Screw, #10		
8X-870	3	Screw, Cover Holding, Fil. hd., #10-32x5/16		
Armature Assembly & Parts Used With				
GAG-1150	1	Oil Thrower		
GAR-2106	1	Armature Assembly		
GAR-171	1	Snap Ring		
X-157	1	Nut, Armature Shaft, Hex., 1/2-20		
X-263	1	Key, Woodruff, #8		
X-358	1	Washer, Plain, Arm. Shaft, 1/2		
X-404	1	Pin, Cotter, 3/32x1		
Drive End Head Assembly & Parts Used With				
GAR-1105	1	Head Assy., Drive End		
GAR-105	1	Head, Drive End		
GX-9	1	Retainer, Bearing		
GX-10	1	Gasket, Retainer		
X-196	3	Washer, Lock, Retainer Sc., #10		
8X-311	3	Screw, Retainer, Rd. hd., #10-32x3/8		
X-378	1	Bearing, Ball, Shielded, S.A.E. #204		
Miscellaneous Parts				
CB-4014	1	Relay Assy., Cutout		
GAL-1024B	1	Band, Cover		
X-196	2	Washer, Lock, Cutout Relay Mtg., #10		
8X-308	1	Screw, Cover Band, Rd. hd., #10-32x1 3/8		
8X-321	2	Screw, Mtg., Cutout Relay, Rd. hd., #10-32x5/16		
8X-794	1	Nut, Cover Band, Square, #10-32		
		1	2	3 4 5

(Issued 5-16-44)

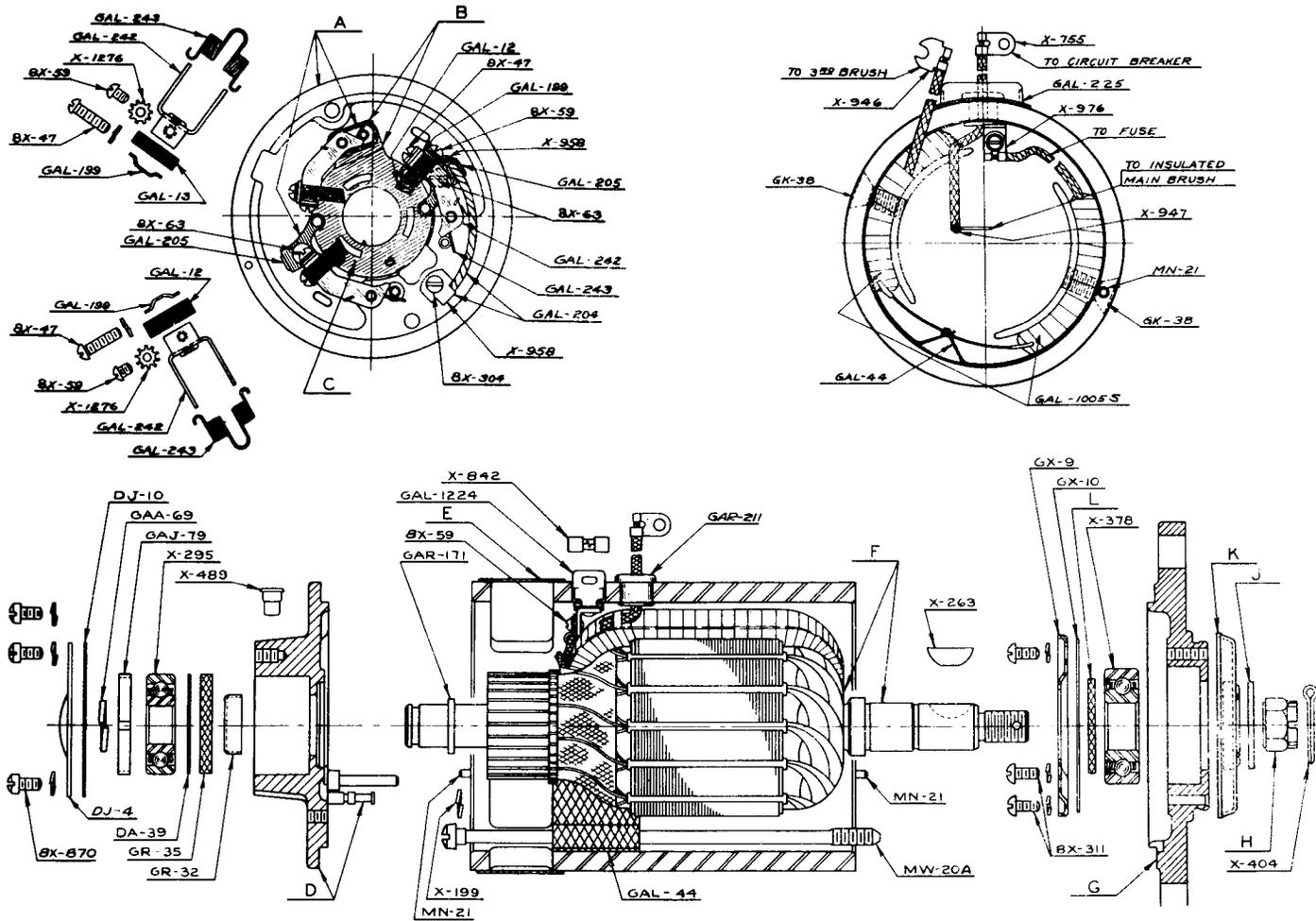
‡ Brush Set, Service, GAL-2012.

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File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

GAR-4542 GENERATOR ILLUSTRATION



UNIT	A	B	C	D	E	F	G	H	J	K	L
GAR-4542	GAR-3235	GAR-2210	GAR-1210	GAR-1235	GAL-1024B	GAR-210G	GAR-105	X-157	X-358	GAG-1150	NONE

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAR-4547 GENERATOR PARTS LIST

GAR-4547

Frame & Field Assembly & Parts Used With					Comm. End Head Assembly (Continued)				
Part No.	No. Used	Name of Part			Part No.	No. Used	Name of Part		
		1	2	3	1	2	3	4	5
GAL-225	1	Cover, Fuse			X-295	1	Bearing, Ball, S.A.E. #203		
(GAR-2304)	1	Frame & Field Assy.			X-489	1	Oiler, Hinge Top, Press in, 1/4		
GAL-44	1	Insulation, Field Connection			X-544	3	Washer, Lock, Cover Holding Screw, #10		
GAL-1224	1	Holder, Fuse			8X-870	3	Screw, Cover Holding, Fil. hd., #10-32x5/16		
GAL-1005AD	1	Coil Assy., Field, Comp.			<u>Armature Assembly & Parts Used With</u>				
GAL-1007N	1	Coil Assy., Field, Left			GAR-2305	1	Armature Assy.		
GAL-146	1	Lead Assy.			GAR-171	2	Snap Ring		
X-755	1	Terminal			GBM-21	1	Nut, Armature Shaft		
X-947	1	Terminal			GJ-104	1	Spacer, Armature Shaft		
X-946	1	Terminal			X-260	1	Key, Woodruff, #5		
GAL-1008D	1	Coil Assy., Field, Right			X-864	1	Washer, Lock, .669		
X-976	1	Terminal			<u>Drive End Head Assembly & Parts Used With</u>				
GAR-211	1	Bushing, Insulating			GAL-1063	1	Head Assy., Drive End		
GK-38	2	Screw, Pole Piece			GAL-63	1	Head		
MN-21	2	Pin, Dowel			GG-6	2	Retainer, Bearing		
8X-59	1	Screw, Rd. hd., #8-32x3/16			GG-164	1	Washer, Felt		
X-195	1	Washer, Lock, #8			GK-176	1	Retainer, Felt Washer		
MW-20A	2	Bolt, Thru			8X-173	3	Nut, Retainer Screw, Hex., #10-32		
X-199	2	Washer, Lock, Thru Bolt, 1/4			X-196	3	Washer, Lock, Retainer Sc., #10		
X-842	1	Fuse, 5 Amps.			X-295	1	Bearing, Ball, S.A.E. #203		
<u>Comm. End Head Assembly & Parts Used With</u>					8X-316	3	Screw, Retainer, Rd. hd., #10-32x3/4		
DA-39	1	Washer, Plain			X-489	1	Oiler, Hinge Top, Press in, 1/4		
DJ-4	1	Cover, Comm. End Cap			<u>Miscellaneous Parts</u>				
DJ-10	1	Gasket, End Cap Cover			CB-4014	1	Relay Assy., Cutout		
GAA-69	1	Lock Ring			CB-123	1	Spring, Armature		
GAJ-79	1	Spacer, Bearing			CB-160S	1	Cover		
(GAR-2206B)	1	Head Assy., Comm. End			PX-55	1	Screw, Arm. Term., Bdg. hd., #10-32x3/16		
GAL-12‡	2	Brush, Main			X-196	2	Washer, Lock, Term. Sc., #10		
GAL-199	2	Block, Brush Screw			8X-312	1	Screw, Bat. Term., Rd. hd., #10-32x1/4		
GAL-204	1	Lead Assy., Ground			GAL-1024C	1	Band, Cover		
X-958	2	Terminal			X-196	2	Washer, Lock, Cap Screw, #10		
GAL-205	2	Spring, Retaining, 3rd			8X-321	2	Screw, Mtg., Cutout Relay, Rd. hd., 10-32x5/16		
		Brush Plate			X-715	1	Screw, Cover Band, Rd. hd., #10-32x1 1/4		
GAL-242	2	Holder, Brush			8X-794	1	Nut, Cover Band, Square, #10-32		
GAL-243	2	Spring, Brush			1 2 3 4 5				
GAL-1206B	1	Head			(Issued 3-10-44)				
GAR-2187A	1	Plate Assy., 3rd Brush							
GAL-13‡	1	Brush							
GAL-199	1	Block, Brush Screw							
GAL-242	1	Holder, Brush							
GAL-243	1	Spring, Brush							
GAR-1187A	1	Plate, 3rd Brush							
8X-47	1	Screw, Rd. hd., #8-32x9/16							
		Screw, Rd. hd., #8-32x3/16							
8X-59	1	Screw, Rd. hd., #8-32x3/16							
X-195	1	Washer, Lock, #8							
X-1276	1	Washer, Skpf., #8							
8X-47	2	Screw, Rd. hd., #8-32x9/16							
8X-59	2	Screw, Rd. hd., #8-32x3/16							
8X-63	2	Screw, Flat hd., #8-32x3/8							
X-195	4	Washer, Lock, #8							
8X-304	1	Screw, Rd. hd., #8-32x5/16							
X-1276	1	Washer, Skpf., #8							
GR-32	1	Retainer, Felt Washer							
GR-35	1	Washer, Felt							
		1	2	3					
		4	5						

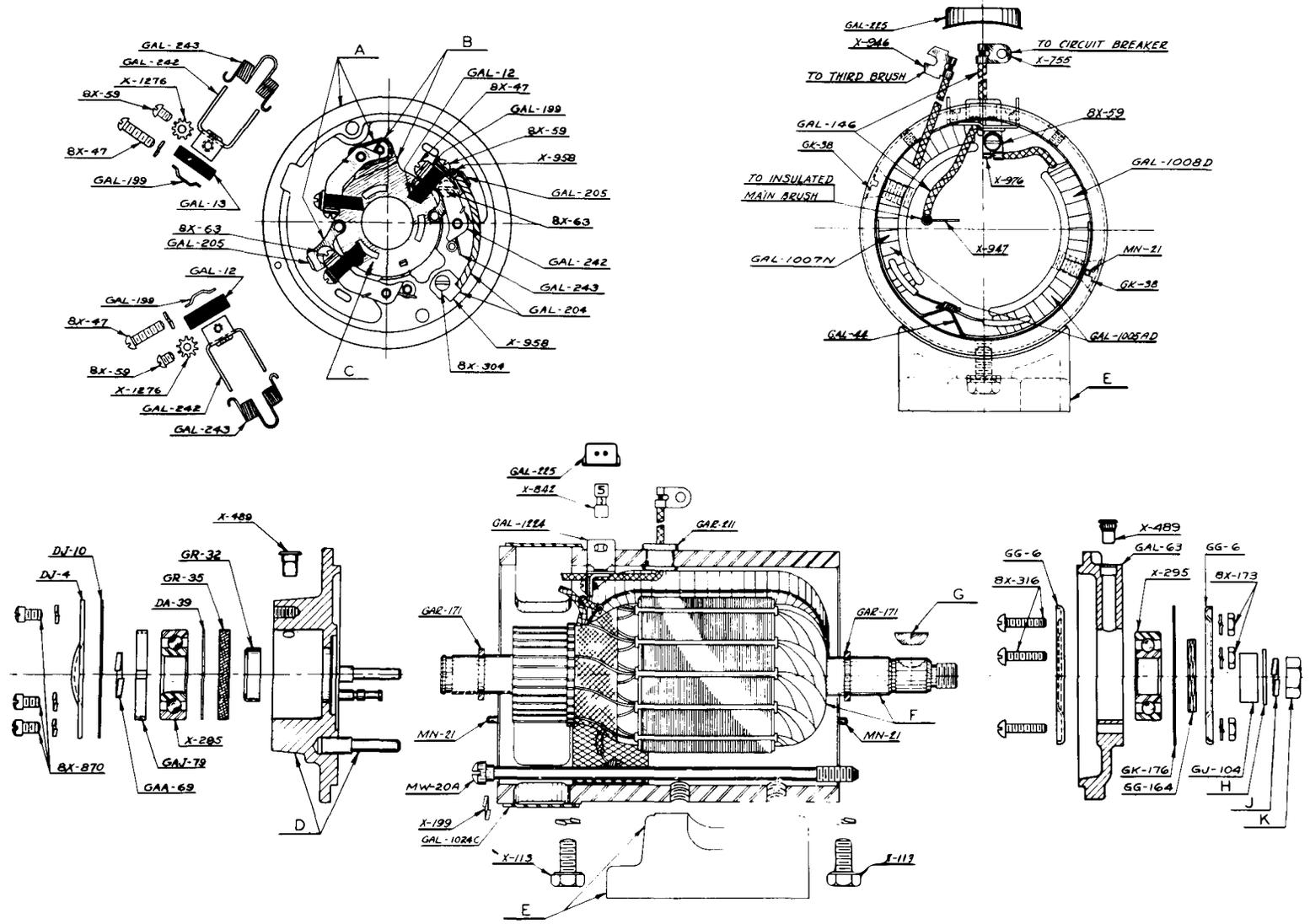
‡ Brush Set, Service, GAL-2012.

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Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

GAR-4547 GENERATOR ILLUSTRATION



UNIT	A	B	C	D	E	F	G	H	J	K
GAR-4547	GAR-2206B	GAR-2137A	GAR-1187A	GAL-1206B	NONE	GAR-2305	X-260	NONE	X-864	GRT-21

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4102, -1
A,C GENERATOR PARTS LIST

GAS-4102, -1
A.C

Frame & Field Assembly & Parts Used With					Comm. End Plate Assembly (Continued)								
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
GAS-20	2	Frame Screw					X-1275	1	#8 Skpf. Washer				
(GAS-3085)	1	Frame & Field Assy.					8X-1349	1	#8-32x3/8 Fill. Hd. Sc.				
GAS-29	2	Pole Piece					8X-55	3	#8-32x3/8 Rd. Hd. Screw				
GAS-44	1	Field Connection Ins.					X-195	1	#8 Lock Washer				
GAS-45	4	Field Coil Holder					X-489	1	1/4 Oiler - Press in Type				
GAS-86	1	C.E. Lead Assy.					IA-175	1	Flat Steel Washer				
X-1423	1	Terminal					8X-61	1	#10-32x7/16 Flat Hd. Screw				
GAS-2005	1	Field Coil Assy. - Comp.					X-63	3	#8-32x3/8 Flat Hd. Screw				
GAS-1C07A	1	Field Coil Assy. - Left					X-293	1	Ball Brg. - S.A.E. #201				
X-1424	1	Terminal					<u>Armature Assembly & Parts Used With</u>						
GAS-1C08A	1	Field Coil Assy. - Right					* 1	Armature Shaft Spacer					
X-959	1	Terminal					GAS-3076	1	Armature Assembly				
GT-7	1	Insulating Tube					GAS-53	1	Snap Ring				
MN-21	2	Dowel Pin					IA-158	1	Snap Ring				
MZ-38	2	Pole Piece Screw					X-160	1	7/16-20 Hex. Nut				
X-140	1	#6-32 Hex. Nut					X-1278	1	7/16 Skpf. Washer				
X-755	1	Terminal					X-1460	1	#212 Woodruff Key				
X-1275	1	#8 Skpf. Washer					*	1	Drive Pulley				
X-1350	1	#6-32x7/16 Flat Hd. Screw					<u>Drive End Head Assembly & Parts Used With</u>						
X-544	2	#10 Lock Washer					GAS-1075	1	Drive End Head Assembly				
<u>Comm. End Plate Assembly & Parts Used With</u>					DB-13	1	Flat Felt Guard						
GAS-69	1	Comm. End Cap Cover					GAS-73	1	Cupped Felt Guard				
GAS-70	1	End Cap Cover Gasket					GAS-74	1	Bearing Retainer				
GAS-71	1	Brg. Retaining Washer					GAS-75	1	D.E. Head				
GAS-77	1	Felt Washer					IGP-34	1	Felt Wick				
GAS-78	1	Felt Washer Retainer					SC-127	1	Felt Washer				
*	1	Comm. End Plate Assy.					8X-55	3	#8-32x3/8 Rd. Hd. Screw				
GAS-51	2	3rd Brush Plate Retain'g Spring					X-195	3	#8 Lock Washer				
GAS-68	1	Comm. End Plate					X-294	1	Ball Brg. - S.A.E. #202				
GAS-2021L	1	Brush Holder Plate Assy.					X-489	1	1/4 Oiler - Press in Type				
CAL-31	1	Ground Connector Assy.					<u>Miscellaneous Parts</u>						
X-958	2	Terminal					CB-4014	1	Circuit Breaker Assy.				
GAS-121	2	Brush - Main					CB-123	1	Armature Spring				
GAS-15	2	Brush Holder					CB-160	1	C.E. Cover				
GAS-17	1	Brush Spring					PX-55	1	#10-32x3/16 Bdg. Hd. Sc.				
GAS-18	1	Brush Spring					X-196	2	#10 Lock Washer				
GAS-1021L	1	Brush Holder Plate Part Assembly					8X-312	1	#10-32x1/4 Rd. Hd. Screw				
8X-878	2	#8-32x7/16 Fill. Hd. Sc					GAS-87	2	C.B. Spacer				
X-1275	2	#8 Skpf. Washer					*	1	Head Band Assy.				
*	1	3rd Brush Holder Plate Assembly					X-196	2	#10 Lock Washer				
GAS-131	1	Brush - Third					8X-311	2	#10-32x3/8 Rd. Hd. Screw				
GAS-15	1	Brush Holder					X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
GAS-18	1	Brush Spring					8X-794	1	#10-32 Square Nut				
*	1	3rd Brush Holder Plate Part Assembly							1	2	3	4	5
		1	2	3	4	5	(Issued 12-23-36)						

Assembly No.	C.E. Plate Assy.	3rd Br. Plate	3rd Br. Plate Part	Hd. Band Assy.	Drive Pulley	Spacer
GAS-4102	GAS-3068	GAS-2072L	GAS-1072L	GAS-1024	None	GAS-89
GAS-4102-1	GAS-3068A	GAS-2072LA	GAS-1072LA	GAS-1024A	None	GAS-89
GAS-4102A	GAS-3068A	GAS-2072LA	GAS-1072LA	GAS-1024	XA-412	None
GAS-4102C	GAS-3068	GAS-2072L	GAS-1072L	GAS-1024	XA-419	None

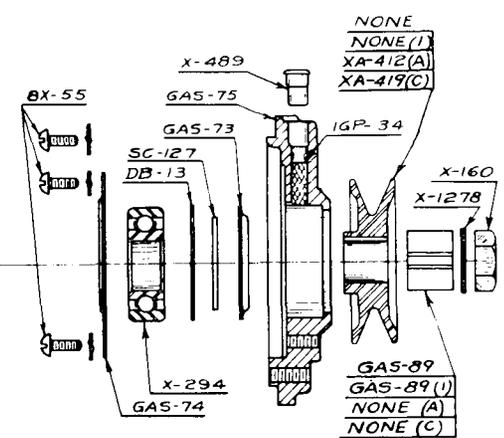
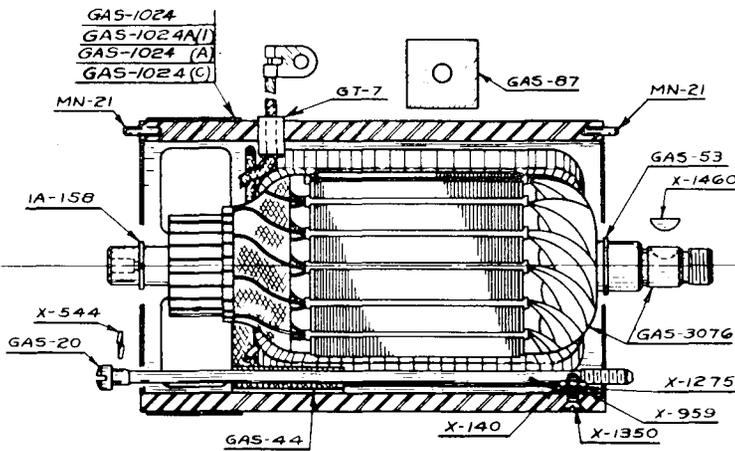
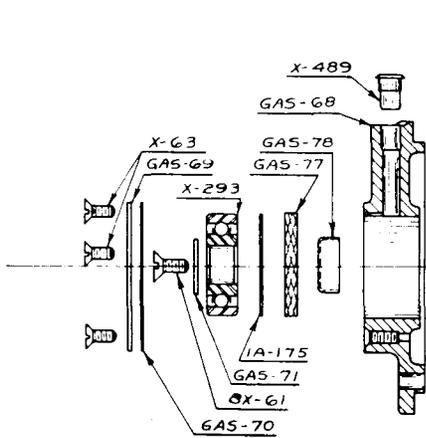
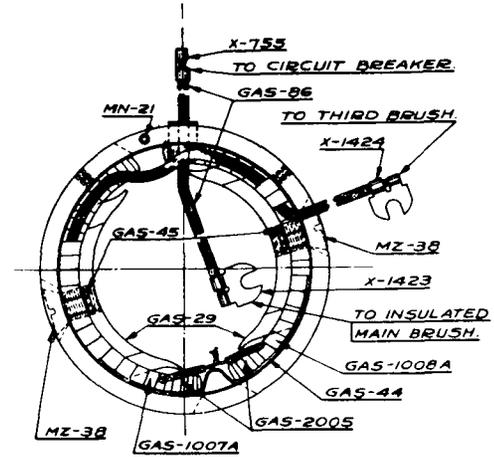
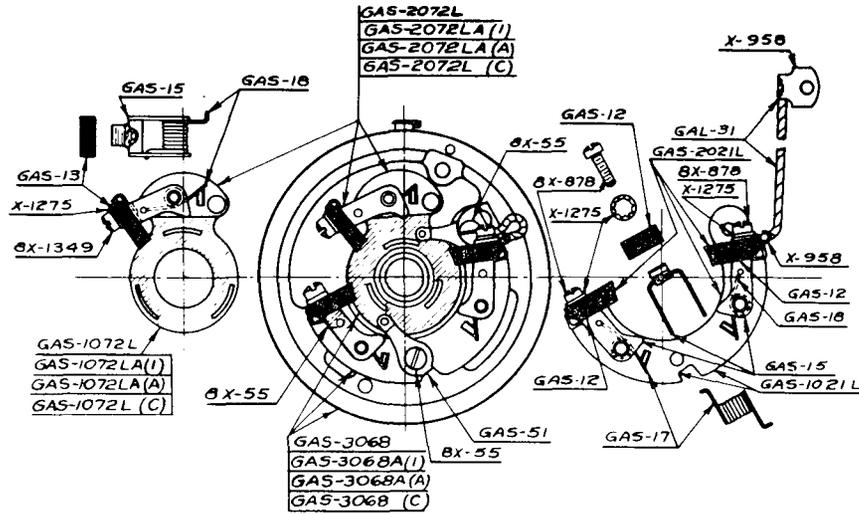
* See table following parts list for part number applying to assembly wanted. † Service Brush Set GAS-2012.

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"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

GAS-4102-1,A,C GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4103-1,A-1 GENERATOR PARTS LIST

GAS-4103-1,A-1

Frame & Field Assembly & Parts Used With			Comm. End Head Assembly (Cont'd.)								
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part						
GAS-20A	2	Bolt, Thru	8X-1496	1	Screw, Ins. Brush, Bdg. Hd. #8-32x7/16						
(GAS-2084)	1	Frame & Field Assy.	GAS-2082RA	1	Plate Assy., 3rd. Brush						
GAS-40	1	Washer, Ins., Term. Stud, Inner	GAS-15	1	Holder, Brush						
GAS-41	1	Bushing, Ins., Term. Stud	GAS-17	1	Spring, Brush						
GAS-44	1	Insulation, Field Connection	GAS-1082RA	1	Plate, 3rd. Brush						
GAS-45	4	Holder, Field Coil	GEM-13†	1	Brush, 3rd						
GAS-81	1	Lead Assembly	X-195	1	Lockwasher, Brush Sc., #8						
GBF-36	1	Stud, Terminal	8X-878	1	Screw, Brush, Fill. Hd. #8-32x7/16						
X-1423	1	Terminal	8X-55	3	Screw, Brush Plate Rd. Hd. #8-32x3/8						
GAS-2005A	1	COIL ASSY., FIELD, COMPLETE	X-195	1	Lockwasher, Plate Sc., #8						
GAS-1007B	1	Coil Assy., Field, Left	X-489	1	Oiler						
X-1423	1	Terminal	IA-175	1	Washer, Plain, Felt Retaining						
GAS-1008A	1	Coil Assy., Field, Right	8X-61	1	Screw, Brg. Retaining, Flat Hd. #10-32x7/16						
X-959	1	Terminal	8X-63	3	Screw, Cover, Flat Hd. #8-32x3/8						
GBF-55	1	Washer, Ins., Term. Stud, Outer	X-293	1	BEARING, BALL, S.A.E. #201						
MN-21	2	Pin, Dowel	<u>Armature Assembly & Parts Used With</u>								
MZ-38A	2	Screw, Pole Shoe	GAS-2076	1	ARMATURE ASSY.						
X-140	1	Nut, Field Grd. Sc., Hex. #6-32	GAS-53	1	Snap Ring, D.E.						
X-1274	2	Washer, Term. Stud, Skpf. #10	IA-158	1	Snap Ring, C.E.						
X-1275	1	Washer, Grd. Sc., Skpf. #8	8X-160	1	Nut, Arm. Shaft, D.E.						
X-1350	1	Screw, Field Grd., Flat Hd. #6-32x7/16	X-1278	1	Washer, Shaft, Skpf. 7/16						
5X-1377	1	Nut, Term. Stud, Hex. #10-32	X-1460A	1	Key, Woodruff, #212						
12X-196	3	Lockwasher, Term. Stud & Thru Bolt, #10	<u>Drive End Head Assembly & Parts Used With</u>								
5X-1377	1	Nut, Term. Stud, Hex., #10-32	GAS-1075E	1	Head Assy., Drive End						
<u>Comm. End Head Assembly & Parts Used With</u>			DB-13	1	Retainer, Felt Washer, Flat						
GAS-69A	1	Cover, Comm. End	GAS-73	1	Retainer, Felt Washer, Cupped						
GAS-70	1	Gasket, C.E. Cover	GAS-74	1	Retainer, Bearing						
GAS-71	1	Washer, Bearing Retaining	GAS-75B	1	Head, Drive End						
GAS-77	1	Washer, Felt	IGP-34	1	Wick, Felt						
GAS-78	1	Retainer, Felt Washer	SC-127	1	Washer, Felt						
GAS-2079C	1	Head Assy., Comm. End	8X-55	3	Screw, Retainer, Rd. Hd. #8-32x3/8						
GAS-51	2	Spring, Retaining, 3rd Brush Plate	X-195	3	Lockwasher, Retainer Sc., #8						
GAS-79B	1	Head, Drive End	X-294	1	BEARING, BALL, #202						
GAS-2021R	1	Plate Assy., Main Brush	X-489	1	Oiler						
GAL-31	1	Lead Assy., Ground	<u>Miscellaneous Parts</u>								
X-958	2	Terminal	GAS-1024F	1	Band, Cover						
GAS-15	2	Holder, Brush	X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2						
GAS-17	1	Spring, Brush Grounded	8X-794	1	Nut, Cover Band, Square #10-32						
GAS-18	1	Spring, Brush, Insulated	† BRUSH SET, SERVICE, GEM-2012S.								
GAS-1021R	1	Plate, Main Brush	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">UNIT</th> <th style="text-align: center;">APPLICATION</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">GAS-4103-1</td> <td style="text-align: center;">Chicago Pneumatic Tool, Wisconsin Motor</td> </tr> <tr> <td style="text-align: center;">GAS-4103A-1</td> <td style="text-align: center;">D.W. Onan</td> </tr> </tbody> </table>			UNIT	APPLICATION	GAS-4103-1	Chicago Pneumatic Tool, Wisconsin Motor	GAS-4103A-1	D.W. Onan
UNIT	APPLICATION										
GAS-4103-1	Chicago Pneumatic Tool, Wisconsin Motor										
GAS-4103A-1	D.W. Onan										
GEM-12†	2	Brush, Main									
8X-122	1	Screw, Grounded Brush Fill. Hd. #8-32x1/2									
X-195	2	Lockwasher, Brush Sc., #8									

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(Issued 3-23-50)

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"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4103-1M GENERATOR PARTS LIST

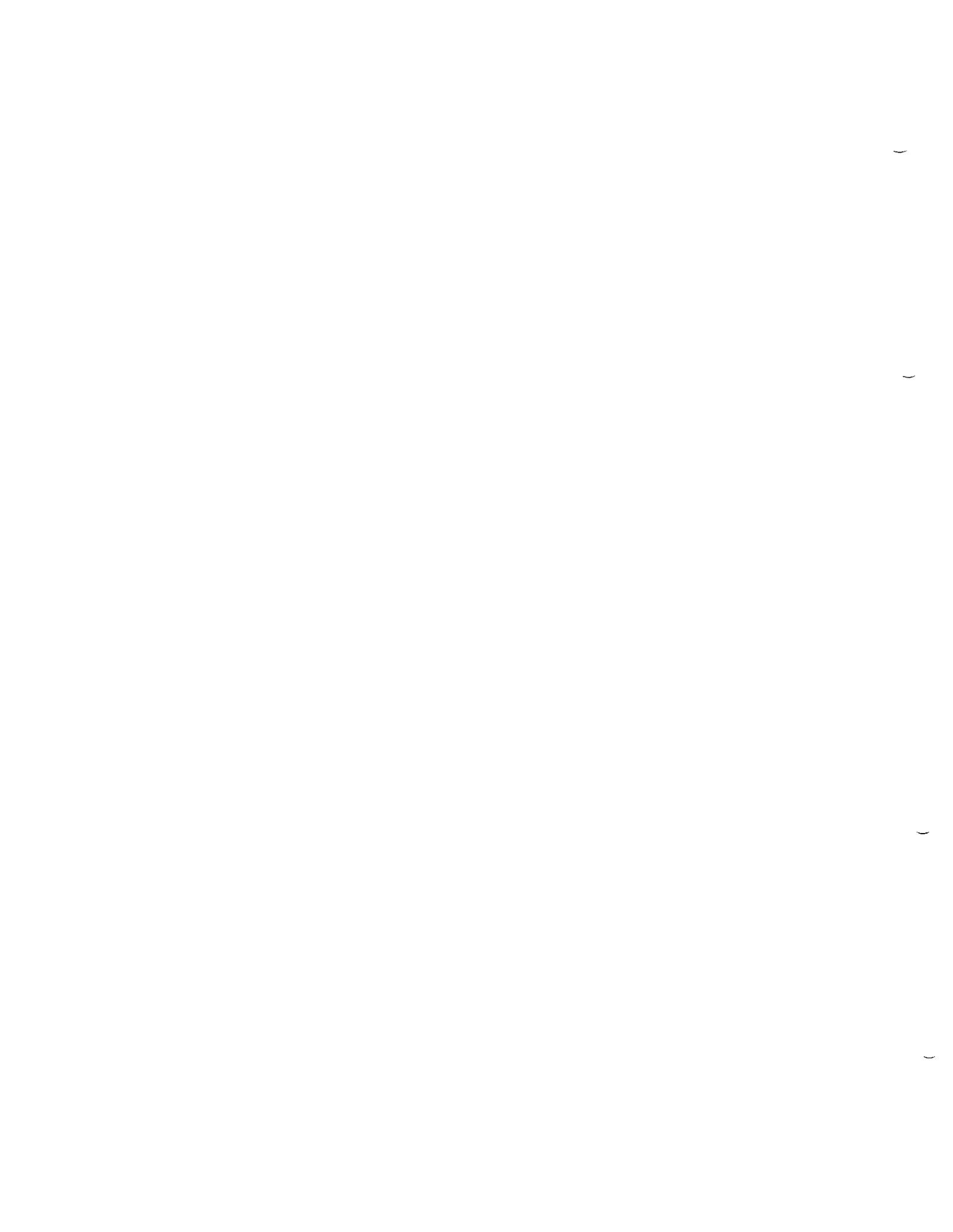
GAS-4103-1M

Frame & Field Assembly & Parts Used With			Comm. End Head Assembly (Cont'd.)						
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part				
GAS-20B	2	Bolt, Thru	X-3004	1	Screw, Grd. Brush, Fill. Hd. #8-32x1/2				
(GAS-2356)	1	Frame & Field Assy.	GAS-2082RC	1	Plate Assy., 3rd. Brush				
GAA-32	1	Washer, Ins., Term. Stud, Outer	GAS-15A	1	Holder, Brush				
GAS-45	4	Holder, Field Coil	GAS-17A	1	Spring, Brush				
GAS-351	1	Bushing, Ins., Term. Stud	GAS-1082RB	1	Plate, 3rd. Brush				
GAS-352	1	Washer, Ins., Term. Stud	GEM-13†	1	Brush, Third				
GAS-354	1	Lead Assembly	12X-195	1	Lockwasher, Brush Sc., #8				
GAS-353	1	Stud, Term., 1/4-28	X-2870	1	Screw, Brush, Bdg. Hd. #8-32x7/16				
X-1423A	1	Terminal	X-12	3	Screw, Br. Plate, Rd. Hd. #8-32x3/8				
GAS-355	1	Insulation, Term. Stud, Inner	12X-195	1	Lockwasher, Plate Sc., #8				
GAS-2005Q	1	COIL ASSY., FIELD, COMPLETE	X-489A	1	Oiler				
GAS-1007E	1	Coil Assy., Field, Left	IA-175A	1	Washer, Plain, Felt Retaining				
X-1423A	1	Terminal	19X-61	1	Screw, Brg. Retaining, Flat Hd. #10-32x7/16				
GAS-1008M	1	Coil Assy., Field, Right	X-293	1	BEARING, BALL, S.A.E. #201				
X-959	1	Terminal	X-3026	3	Screw, Cover, Flat Hd. #8-32x3/8				
MN-21A	2	Pin, Dowel	Armature Assembly & Parts Used With						
MZ-38C	2	Screw, Pole Shoe	GAS-2076M	1	ARMATURE ASSY.				
X-140	1	Nut, Ground Sc., Hex. #6-32	GAS-53A	1	Snap Ring, D.E.				
X-187	1	Washer, Term. Stud, Plain #14	IA-158A	1	Snap Ring, C.E.				
12X-199	2	Lockwasher, Term. Stud, 1/4	19X-160	1	Nut, Shaft, D.E., Hex. 7/16-20				
X-1272	1	Washer, Term. Stud, Skpf. 1/4	X-1278	1	Washer, Shaft, D.E., Skpf. 7/16				
X-1275	1	Washer, Ground Sc., Skpf. #8	X-1460A	1	Key, Woodruff, #212				
X-2903	2	Nut, Term. Stud, Hex. 1/4-28	Drive End Head Assembly & Parts Used With						
X-3023	1	Screw, Field Ground, Flat Hd. #6-32x7/16	GAS-1075K	1	Head Assy., Drive End				
12X-196	2	Lockwasher, Thru Bolt, #10	DB-13A	1	Retainer, Felt Washer, Flat				
Comm. End Head Assembly & Parts Used With			GAS-73A	1	Retainer, Felt Washer, Cupped				
GAS-69B	1	Cover, Comm. End	GAS-74A	1	Retainer, Bearing				
GAS-70	1	Gasket, C.E. Cover	GAS-75D	1	Head, Drive End				
GAS-71A	1	Washer, Brg. Retaining Sc.	IGP-34	1	Wick, Felt				
GAS-77A	1	Washer, Felt	SC-127A	1	Washer, Felt				
GAS-78A	1	Retainer, Felt Washer	X-12	3	Screw, Retainer, Rd. Hd. #8-32x3/8				
GAS-2079J	1	Head Assy., Comm. End	12X-195	3	Lockwasher, Retainer Sc., #8				
GAS-51A	2	Spring, Retaining, 3rd Brush Plate	X-294	1	BEARING, BALL, S.A.E. #202				
GAS-79D	1	Head, Comm. End	X-489A	1	Oiler				
GAS-2021RB	1	Plate Assy., Main Brush	Miscellaneous Parts						
GAL-31A	1	Lead Assy., Ground	GAS-1024L	1	Band, Cover				
X-958A	2	Terminal	X-2875	1	Nut, Cover. Band, Square #10-32				
GAS-15A	1	Holder, Brush	X-2882	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2				
GAS-17A	1	Spring, Brush, Grounded	† BRUSH SET, SERVICE GEM-2012S.						
GAS-18A	1	Spring, Brush, Insulated	<table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding: 2px;">UNIT</td> <td style="padding: 2px;">APPLICATION</td> </tr> <tr> <td style="padding: 2px;">GAS-4103-1M</td> <td style="padding: 2px;">Wisconsin Motor</td> </tr> </table>			UNIT	APPLICATION	GAS-4103-1M	Wisconsin Motor
UNIT	APPLICATION								
GAS-4103-1M	Wisconsin Motor								
GAS-1021RA	1	Plate, Main Brush							
GEM-12 †	2	Brush, Main							
12X-195	2	Lockwasher, Brush Sc. #8							
X-2870	1	Screw, Ins., Brush, Bdg. Hd. #8-32x7/16							

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"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4104.A,B GENERATOR PARTS LIST

GAS-4104,A,B

Frame & Field Assembly & Parts Used With						Comm. End Head Assembly (Continued)							
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
GAS-20A	2	Bolt, Thru					*	1	Plate Assy., 3rd Brush				
(GAS-2091)	1	Frame & Field Assy.					GAS-15	1	Holder, Brush				
GAS-44	1	Insulation, Field Connection					GAS-17	1	Spring, Brush				
GAS-45	4	Holder, Field Coil					*	1	Plate, 3rd Brush				
GAS-86	1	Lead Assy.					GEM-13‡	1	Brush				
X-1423	1	Terminal					X-1013	1	Washer, Lock, Brush Sc., #8				
GAS-2005A	1	Coil Assy., Field, Comp.					*	1	Screw, Brush				
GAS-1007B	1	Coil Assy., Field, Left					8X-55	3	Screw, Plate Attaching				
X-1423	1	Terminal					X-195	1	Washer, Lock, Plate Screw, #8				
GAS-1008A	1	Coil Assy., Field, Right					X-489	1	Oiler, Hinge Top, Press in, 1/4				
X-959	1	Terminal					IA-175	1	Washer, Plain				
GT-7	1	Bushing, Insulating					8X-61	1	Screw, Bearing Retaining,				
MN-21	2	Pin, Dowel, Head Locating					X-63	3	Screw, Cover Holding				
MZ-38	2	Screw, Pole Shoe					X-293	1	Bearing, Ball, S.A.E. #201				
X-140	1	Nut, Field Grd., Hex., #6-32					<u>Armature Assembly & Parts Used With</u>						
X-755	1	Terminal					GAS-2076	1	Armature Assy.				
X-1275	1	Washer, Skpf., Field Grd.#8					GAS-53	1	Snap Ring, D.E.				
X-1350	1	Screw, Field Grd.,					IA-158	1	Snap Ring, C.E				
X-544	2	Washer, Lock, Thru Bolt, #10					*	1	Pulley, Drive				
<u>Comm. End Head Assembly & Parts Used With</u>						X-160	1	Nut, Armature Shaft, Hex., 7/16-20					
GAS-69A	1	Cover, Comm. End					X-1278	1	Washer, Skpf., Arm. Shaft, 7/16				
GAS-70	1	Gasket, Cover, Comm. End					X-1460	1	Key, Woodruff, #212				
GAS-71	1	Washer, Bearing Retaining					<u>Drive End Head Assembly & Parts Used With</u>						
GAS-77	1	Washer, Felt					GAS-1075E	1	Head Assy., Drive End				
GAS-78	1	Retainer, Felt Washer					DB-13	1	Retainer, Felt Washer, Flat				
*	1	Head Assy., Comm. End					GAS-73	1	Retainer, Felt Washer, Cupped				
GAS-51	2	Spring, Retaining, 3rd Brush Plate					GAS-74	1	Retainer, Bearing				
GAS-79	1	Head					GAS-75B	1	Head				
GAS-2021R	1	Plate Assy., Main Brush					IGP-34	1	Wick, Felt				
GAL-31	1	Lead Assy., Ground					SC-127	1	Washer, Felt				
X-958	2	Terminal					8X-55	3	Screw, Retainer				
GAS-15	2	Holder, Brush					X-195	3	Washer, Lock, Retainer Sc., #8				
GAS-17	1	Spring, Brush, Grounded					X-294	1	Bearing, Ball, S.A.E. #202				
GAS-18	1	Spring, Brush, Insulated					X-489	1	Oiler, Hinge Top, Press in, 1/4				
GAS-1021R	1	Plate, Main Brush					<u>Miscellaneous Parts</u>						
GEM-12‡	2	Brush, Main					CB-4014	1	Relay Assy., Cutout				
8X-122	1	Screw, Grounded Brush					GAS-87	2	Spacer, Relay Mounting				
X-1013	2	Washer, Lock, Brush, #8					GAS-1024	1	Band, Cover				
8X-1496	1	Screw, Ins. Brush					X-196	2	Washer, Lock, Relay Mtg., #10				
		1	2	3	4	5	8X-311	2	Screw, Mounting, Cutout Relay				
							X-714	1	Screw, Cover Band,				
							8X-794	1	Nut, Cover Band, Square, #10-32				
									1	2	3	4	5
									(Issued 3-11-44)				

Assembly No.	Head Assy., Comm. End	Plate Assy., 3rd Brush	Plate, 3rd Brush	Screw, Brush	Pulley, Drive
GAS-4104	GAS-2079	GAS-2082R	GAS-1082R	8X-1496	None
GAS-4104-1	GAS-2079A	GAS-2082RA	GAS-1082RA	8X-878	None
GAS-4104A	GAS-2079	GAS-2082R	GAS-1082R	8X-1496	Not supplied by A-L.
GAS-4104B	GAS-2079	GAS-2082R	GAS-1082R	8X-1496	SP-90

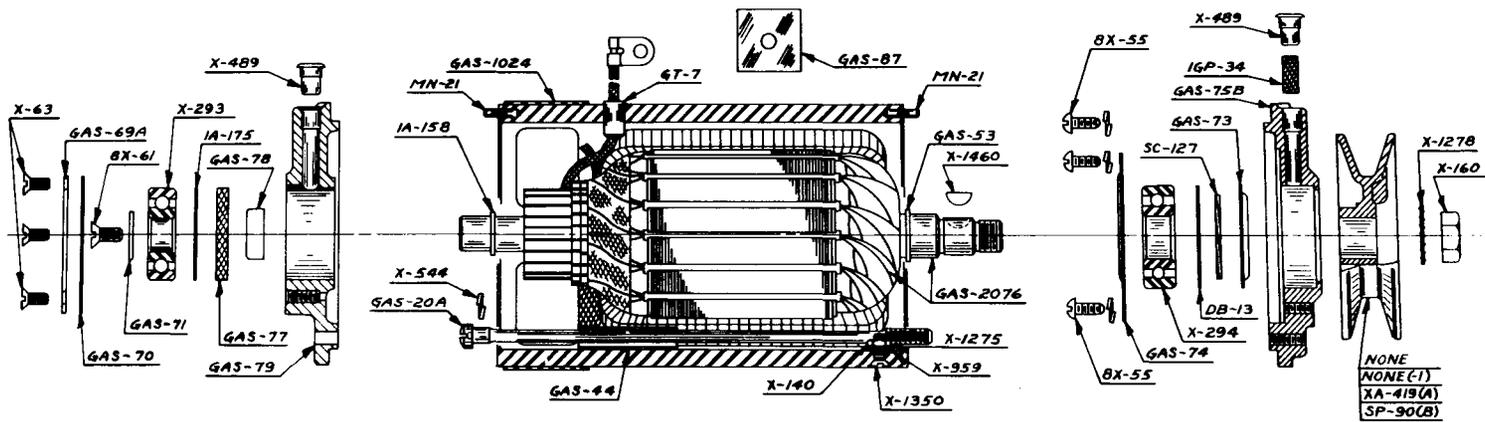
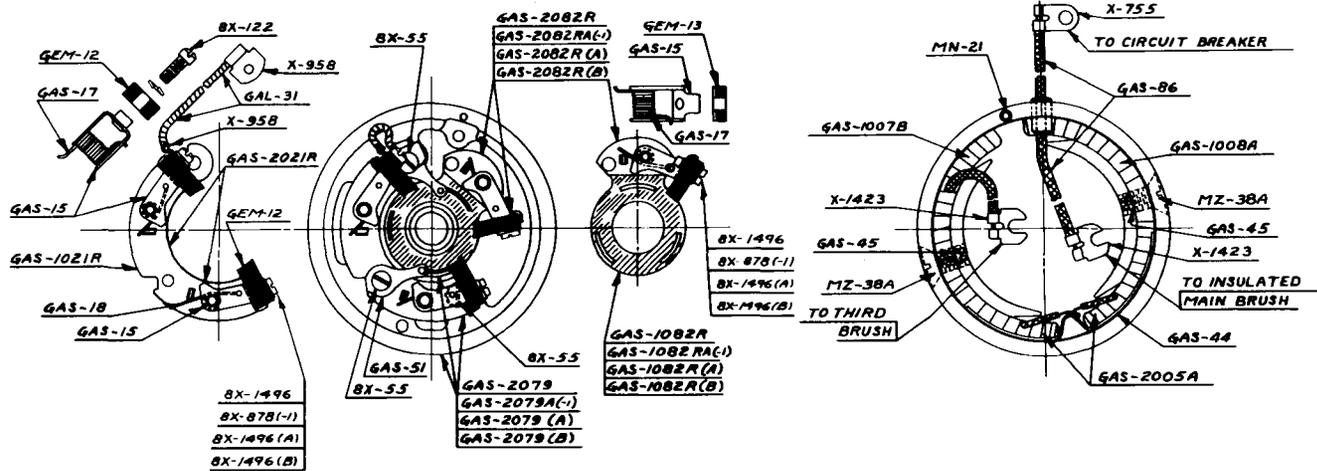
* See table following parts list for part number applying to assembly wanted.

‡ Brush Set, Service, GEM-2012S.

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GAS-4104.A,B GENERATOR ILLUSTRATION

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4106 GENERATOR PARTS LIST

GAS-4106

Frame & Field Assembly & Parts Used With						Armature Assembly & Parts Used With							
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
GAS-20	2	Frame Screw					GAS-2092	1	Armature Assembly				
(GAS-2085)	1	Frame & Field Assy.					GAS-53	1	Snap Ring				
GAS-29	2	Pole Piece					IA-158	1	Snap Ring				
GAS-44	1	Field Connection Ins.					X-160	1	7/16-20 Hex. Nut				
GAS-45	4	Field Coil Holder					X-258	1	#3 Woodruff Key				
GAS-86	1	C.B. Lead Assy.					X-1278	1	7/16 Skpf. Washer				
X-1423	1	Terminal					X-1460	1	#212 Woodruff Key				
GAS-2005A	1	Field Coil Assy.-Comp.					Drive End Head Assembly & Parts Used With						
GAS-1007B	1	Field Coil Assy.-Left					GAS-1075	1	Drive End Head Assy.				
X-1423	1	Terminal					DB-13	1	Flat Felt Guard				
GAS-1008A	1	Field Coil Assy.-Right					GAS-73	1	Cupped Felt Guard				
X-959	1	Terminal					GAS-74	1	Bearing Retainer				
GT-7	1	Insulating Tube					GAS-75	1	Drive End Head				
MN-21	2	Dowel Pin					SC-127	1	Felt Washer				
MZ-38	2	Pole Piece Screw					6X-55	3	#8-32x3/8 Rd. Hd. Sc.				
X-140	1	#6-32 Hex. Nut					X-195	3	#8 Lock Washer				
X-194	1	#6 Lock Washer					X-294	1	Ball Brg. - S.A.E. #202				
X-755	1	Terminal					X-489	1	1/4 Oiler - Press in Type				
X-1350	1	#6-32x7/16 Flat Hd. Sc.											
X-544	2	#10 Lock Washer											
Comm. End Plate Assembly & Parts Used With						Miscellaneous Parts							
GAS-70	1	End Cap Cover Gasket					CB-4014	1	Circuit Breaker Assy.				
GAS-77	1	Felt Washer					CB-115	1	C.B. Cover				
GAS-78	1	Felt Washer Retainer					or	1					
GAS-94	1	Shaft Spacer					CB-160	1	Armature Spring				
GAS-95	1	Comm. End Cap Cover					CB-123	1	#10-32x3/16 Bdg. Hd. Sc.				
GAS-96	1	Lock Spring Ring					PX-55	1	#10 Lock Washer				
(GAS-2079)	1	Comm. End Plate Assy.					X-196	2	#10-32x1/4 Rd. Hd. Sc.				
GAS-51	2	3rd Br. Plate Retain'g Spring					8X-312	1	C.B. Spacer				
GAS-79	1	Comm. End Plate					GAS-87	2	Head Band Assy.				
GAS-2021R	1	Br. Holder Plate Assy.					GAS-1024	1	#10 Lock Washer				
GAL-31	1	Ground Connector Assy.					X-196	2	#10-32x3/8 Rd. Hd. Sc.				
X-958	2	Terminal					6X-311	2	#8-32x1 1/4 Rd. Hd. Sc.-Hardened				
GAS-12	2	Brush - Main					6X-1010A	1	#8-32 Square Nut				
GAS-15	2	Brush Holder					1	2	3	4	5		
GAS-17	1	Brush Spring					(Issued 6-3-31)						
GAS-18	1	Brush Spring					(R-7-8-36)						
GAS-1021R	1	Br. Holder Plate Part Assy.											
6X-878	2	#8-32x7/16 Fill. Hd. Screw											
X-1275	2	#8 Skpf. Washer											
GAS-2082R	1	3rd Br. Holder Plate Assembly											
GAS-13	1	Brush - 3rd											
GAS-15	1	Brush Holder											
GAS-17	1	Brush Spring											
GAS-1082R	1	3rd Br. Holder Plate Part Assy.											
X-1275	1	#8 Skpf. Washer											
6X-1349	1	#8-32x3/8 Fill. Hd. Screw											
6X-55	3	#8-32x3/8 Rd. Hd. Sc.											
X-195	1	#8 Lock Washer											
X-489	1	1/4 Oiler - Press in Type											
GJ-305	1	Felt Washer											
IA-175	2	Flat Steel Washer											
X-63	3	#8-32x3/8 Flat Hd. Screw											
X-293	1	Ball Brg. - S.A.E. #201											
		1	2	3	4	5							

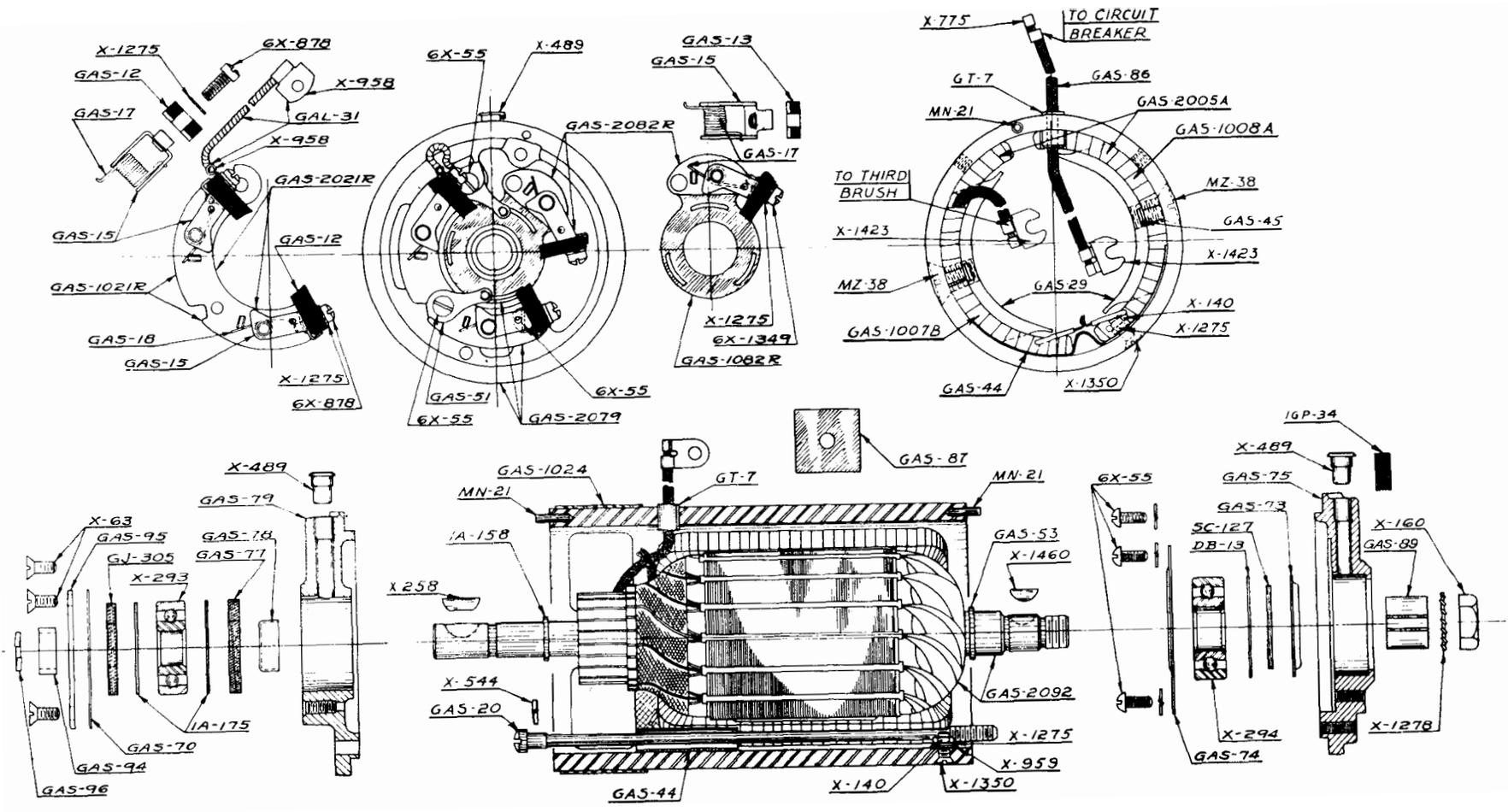
NOTE:- Use GAS-2012 brush set in servicing this unit.

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"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

GAS-4106 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4108 GENERATOR PARTS LIST

GAS-4108

Frame & Field Assembly & Parts Used With						Armature Assembly & Parts Used With														
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part											
		1	2	3	4	5			1	2	3	4	5							
GAS-20	2						GAS-3076	1												
(GAS-3108)	1						GAS-53	1												
GAS-29	2						IA-158	1												
GAS-44	1						X-160	1												
GAS-45	4						X-1278	1												
GAS-86	1						X-1460	1												
X-1423	1						Drive End Head Assembly & Parts Used With													
GAS-2005	1						GAS-1075A	1												
GAS-1007A	1						DB-13	1												
X-1424	1						GAS-73	1												
GAS-1008A	1						GAS-74	1												
X-959	1						GAS-75	1												
GT-7	1						SC-127	1												
MN-21	2						6X-55	3												
MZ-38	2						X-195	3												
X-140	1						X-294	1												
X-194	1						X-489	1												
X-755	1						Miscellaneous Parts													
X-1350	1						CB-4014	1												
X-544	2						CB-115													
Comm. End Plate Assembly & Parts Used With																				
GAS-69	1						or	1												
GAS-70	1						CB-160													
GAS-71	1						CB-123	1												
GAS-77	1						PX-55	1												
GAS-78	1						X-196	2												
(GAS-3068)	1						8X-312	1												
GAS-51	2						GAS-87	2												
GAS-68	1						GAS-1024	1												
GAS-2021L	1						X-196	2												
GAL-31	1						6X-311	2												
X-958	2						6X-1010A	1												
GAS-12	2						6X-1410	1												
GAS-15	2																			
GAS-17	1																			
GAS-18	1																			
GAS-1021L	1																			
6X-878	2																			
X-1275	2																			
GAS-2072L	1																			
GAS-13	1																			
GAS-15	1																			
GAS-18	1																			
GAS-1072L	1																			
X-1275	1																			
6X-1349	1																			
6X-55	3																			
X-195	1																			
X-489	1																			
IA-175	1																			
6X-61	1																			
X-63	3																			
Y-293	1																			

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4110 GENERATOR PARTS LIST

GAS-4110

Frame & Field Assembly & Parts Used With					Comm. End Head Assembly (Con't.)								
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
GAS-20A	2	Bolt, Thru					8X-55	3	Screw, Plate Attaching, Rd. hd., #8-32x3/8				
(GAS-2108)	1	Frame & Field Assy.					X-195	1	Washer, Lock, Plate Sc., #8				
GAS-44	1	Insulation, Field Connection					X-489	1	Oiler, Hinge Top, Press in, 1/4				
GAS-45	4	Holder, Field Coil					IA-175	1	Washer, Plain, Felt Retaining				
GAS-86	1	Lead Assy.					8X-61	1	Screw, Bearing Retaining, Flat hd., #10-32x7/16				
X-1423	1	Terminal					X-63	3	Screw, Cover Holding, Flat hd., #8-32x3/8				
GAS-2005A	1	Coil Assy., Field, Comp.					X-293	1	Bearing, Ball, S.A.E. #201				
GAS-1007B	1	Coil Assy., Field, Left					<u>Armature Assembly & Parts Used With</u>						
X-1423	1	Terminal					GAS-2076	1	Armature Assy.				
GAS-1008A	1	Coil Assy., Field, Right					GAS-53	1	Snap Ring, D.E.				
X-959	1	Terminal					IA-158	1	Snap Ring, C.E.				
GT-7	1	Bushing, Insulating					X-160	1	Nut, Armature Shaft, Hex., 7/16-20				
MN-21	2	Pin, Dowel, Head Locating					X-1278	1	Washer, Skpf., Arm. Shaft, 7/16				
MZ-38	2	Screw, Pole Shoe					X-1460	1	Key, Woodruff, #212				
X-140	1	Nut, Field Ground, Hex., #6-32					<u>Drive End Head Assembly & Parts Used With</u>						
X-755	1	Terminal					GAS-1075B	1	Head Assy., Drive End				
X-1275	1	Washer, Skpf., Grd. Sc., #8					DB-13	1	Retainer, Felt Washer, Flat				
X-1350	1	Screw, Field Ground, Flat Hd., #6-32x7/16					GAS-73	1	Retainer, Felt Washer, Cupped				
X-544	2	Washer, Lock, Thru Bolt, #10					GAS-74	1	Retainer, Bearing				
<u>Comm. End Head Assembly & Parts Used With</u>					<u>Drive End Head Assembly & Parts Used With</u>								
GAS-69A	1	Cover, Comm. End					GAS-75	1	Head, Drive End				
GAS-70	1	Gasket, Cover, Comm. End					IGP-34	1	Wick, Felt				
GAS-71	1	Washer, Bearing Retaining					SC-127	1	Washer, Felt				
GAS-77	1	Washer, Felt					8X-55	3	Screw, Retainer, Rd. hd., #8-32x3/8				
GAS-78	1	Retainer, Felt Washer					X-195	3	Washer, Lock, Retainer Sc., #8				
(GAS-2079)	1	Head Assy., Comm. End					X-489	1	Oiler, Hinge Top, Press in, 1/4				
GAS-51	2	Spring, Retaining, 3rd					X-1470	1	Bearing, Ball, Shielded, S.A.E. #202				
		Brush Plate					<u>Miscellaneous Parts</u>						
GAS-79	1	Head					CB-4014	1	Relay Assy., Cutout				
GAS-2021R	1	Plate Assy., Main Brush					GAS-87	2	Spacer, Relay Mounting				
GAL-31	1	Lead Assy., Ground					GAS-1024	1	Band, Cover				
X-958	2	Terminal					X-196	2	Washer, Lock, Cutout Relay Mtg., #10				
GAS-15	2	Holder, Brush					8X-311	2	Screw, Mounting, Cutout Relay, Rd. hd., #10-32x3/8				
GAS-17	1	Spring, Brush, Grounded					X-714	1	Screw, Cover Band, Rd. hd., #10-32x1 1/2				
GAS-18	1	Spring, Brush, Insulated					8X-794	1	Nut, Cover Band, Square, #10-32				
GAS-1021R	1	Plate, Main Brush							1	2	3	4	5
GEM-12*	2	Brush, Main					(Issued 4-26-44)						
8X-122	1	Screw, Grounded Brush, Fil. hd., #8-32x1/2											
X-1013	2	Washer, Lock, Brush Screw, #8											
8X-1496	1	Screw, Ins. Brush, Bdg. hd., #8-32x7/16											
GAS-2082R	1	Plate Assy., 3rd Brush											
GAS-15	1	Holder, Brush											
GAS-17	1	Spring, Brush											
GAS-1082R	1	Plate, 3rd Brush											
GEM-13*	1	Brush											
X-1013	1	Washer, Lock, Brush Screw, #8											
8X-1496	1	Screw, Brush, Bdg. hd., #8-32x7/16											
		1	2	3	4	5							

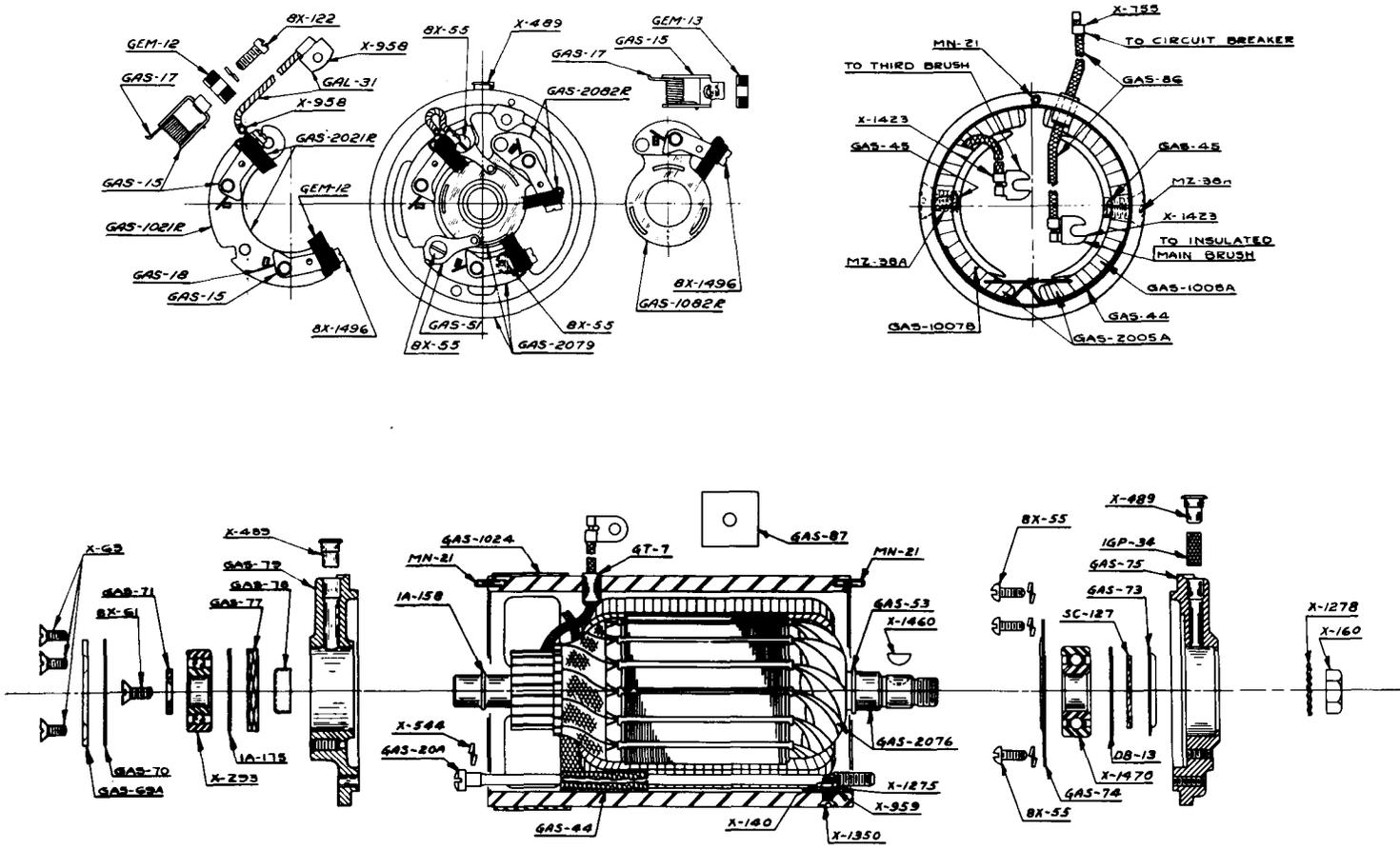
* Brush Set, Service, GEM-2012S.

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"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

GAS-4110 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4111 GENERATOR PARTS LIST

GAS-4111

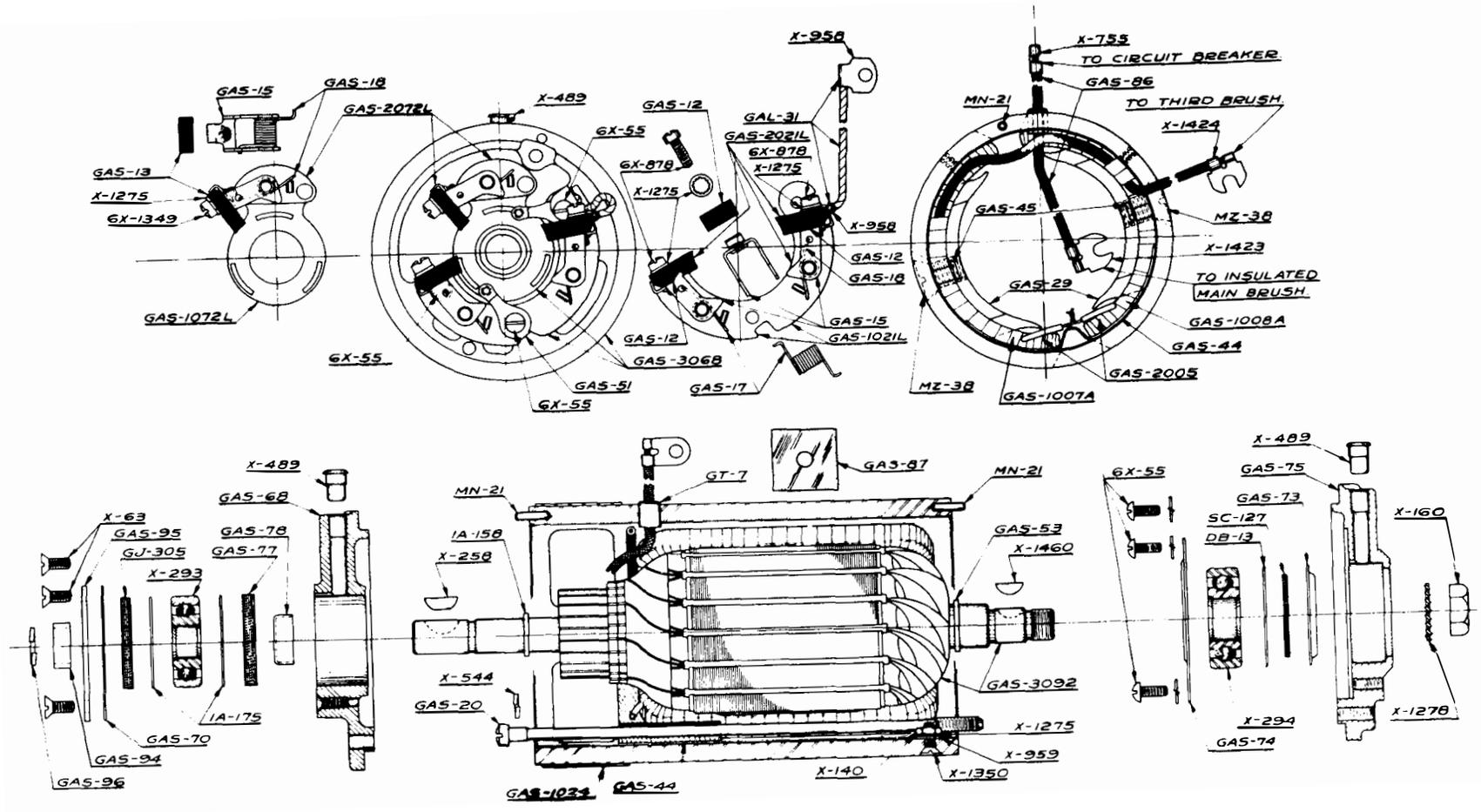
Frame & Field Assembly & Parts Used With					Armature Assembly & Parts Used With								
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
GAS-20	2	Frame Screw					GAS-3092	1	Armature Assembly				
(GAS-3085)	1	Frame & Field Assy.					IA-158	1	Snap Ring				
GAS-29	2	Pole Piece					GAS-53	1	Snap Ring				
GAS-44	1	Field Connection Ins.					X-160	1	7/16-20 Hex. Nut				
GAS-45	4	Field Coil Holder					X-258	1	#3 Woodruff Key				
GAS-86	1	C.B. Lead Assy.					X-1278	1	7/16 Skpf. Washer				
X-1423	1	Terminal					X-1460	1	#212 Woodruff Key				
GAS-2005	1	Field Coil Assy.-Comp.					<u>Drive End Head Assembly & Parts Used With</u>						
GAS-1007A	1	Field Coil Assy.-Left					GAS-1075	1	D.E. Head Assy.				
X-1424	1	Terminal					DB-13	1	Flat Felt Guard				
GAS-1008A	1	Field Coil Assy.-Right					GAS-73	1	Cupped Felt Guard				
X-959	1	Terminal					GAS-74	1	Bearing Retainer				
GT-7	1	Insulating Tube					GAS-75	1	Drive End Head				
MN-21	2	Dowel Pin					SC-127	1	Felt Washer				
MZ-38	2	Pole Piece Screw					6X-55	3	#8-32x3/8 Rd. Hd. Screw				
X-140	1	#6-32 Hex. Nut					X-195	3	#8 Lock Washer				
X-755	1	Terminal					X-294	1	Ball Brg. - S.A.E. #202				
X-1275	1	#8 Skpf. Washer					X-489	1	1/4 Oiler - Press in Type				
X-1350	1	#6-32x7/16 Flat Hd. Sc.					<u>Miscellaneous Parts</u>						
X-544	2	#10 Lock Washer					CB-4014	1	Circuit Breaker Assy.				
<u>Comm. End Plate Assembly & Parts Used With</u>						CB-123	1	Armature Spring					
GAS-70	1	End Cap Cover Gasket					CB-160	1	C.B. Cover				
GAS-77	1	Felt Washer					PX-55	1	#10-32x3/16 Bdg. Flat Sc.				
GAS-78	1	Felt Washer Retainer					X-196	2	#10 Lock Washer				
GAS-94	1	Shaft Spacer					8X-312	1	#10-32x1/4 Rd. Hd. Sc.				
GAS-95	1	Comm. End Cap Cover					GAS-87	2	C.B. Spacer				
GAS-96	1	Lock Spring Ring					GAS-1024	1	Head Band Assembly				
(GAS-3068)	1	Comm. End Plate Assembly					X-196	2	#10 Lock Washer				
GAS-51	2	3rd Brush Plate Retaining Spring					6X-311	2	#10-32x3/8 Rd. Hd. Screw				
GAS-68	1	Comm. End Plate					X-715	1	#10-32x1/4 Rd. Hd. Screw				
GAS-2021L	1	Brush Holder Plate Assy.					6X-794	1	#10-32 Square Nut				
GAL-31	1	Ground Connector Assy.							1	2	3	4	5
X-958	2	Terminal					(Issued 5-24-32)						
GAS-12	2	Brush - Main					(R-7-8-36)						
GAS-15	2	Brush Holder											
GAS-17	1	Brush Spring											
GAS-18	1	Brush Spring											
GAS-1021L	1	Brush Holder Plate Part Assembly											
6X-878	2	#8-32x7/16 Fill. Hd. Screw											
X-1275	2	#8 Skpf. Washer											
GAS-2072L	1	3rd Brush Holder Plate Assembly											
GAS-13	1	Brush - 3rd											
GAS-15	1	Brush Holder											
GAS-18	1	Brush Spring											
GAS-1072L	1	3rd Brush Holder Plate Part Assy.											
X-1275	1	#8 Skpf. Washer											
6X-1349	1	#8-32x3/8 Fill. Hd. Sc.											
6X-55	3	#8-32x3/8 Rd. Hd. Screw											
X-195	1	#8 Lock Washer											
X-489	1	1/4 Oiler - Press in Type											
GJ-305	1	Felt Washer											
IA-175	2	Flat Steel Washer											
X-63	3	#8-32x3/8 Flat Hd. Screw											
X-293	1	Ball Brg. - S.A.E. #201											
		1	2	3	4	5							

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GAS-4111 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4114 GENERATOR PARTS LIST

GAS-4114

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
GAS-20	2	Frame Screw					
(GAS-3113)	1	Frame & Field Assembly					
GAS-29	2	Pole Piece					
GAS-44	1	Field Connection Ins.					
GAS-45	4	Field Coil Holder					
GAS-86	1	C.B. Lead Assy.					
X-1423	1	Terminal					
GAS-2005	1	Field Coil Assy. - Comp.					
GAS-1007A	1	Field Coil Assy.-Left					
X-1424	1	Terminal					
GAS-1008A	1	Field Coil Assy.-Right					
X-959	1	Terminal					
GT-7	1	Insulating Tube					
MN-21	2	Dowel Pin					
MZ-38	2	Pole Piece Screw					
X-140	1	#6-32 Hex. Nut					
X-755	1	Terminal					
X-1275	1	#8 Skpf. Washer					
X-1350	1	#6-32x7/16 Flat Hd. Sc.					
X-544	2	#10 Lock Washer					

Comm. End Plate Assembly & Parts Used With

GAS-52	1	Grease Hole Cover					
(GAS-3002)	1	Comm. End Plate Assy.					
GAS-51	2	3rd Brush Plate Retaining Spring					
GAS-1002	1	Comm. End Plate Part Assy.					
GAS-49	1	Absorbent Bronze Brg.					
GAS-2014L	1	3rd Brush Holder Plate Assembly					
GAS-13	1	Brush - Third					
GAS-15	1	Brush Holder					
GAS-18	1	Brush Spring					
GAS-1014L	1	3rd Brush Holder Plate Part Assembly					
X-1275	1	#8 Skpf. Washer					
6X-1349	1	#8-32x3/8 Fill. Hd. Sc.					
GAS-2021L	1	Brush Holder Plate Assy.					
GAL-31	1	Ground Connector Assy.					
X-958	2	Terminal					
GAS-12	2	Brush - Main					
GAS-15	2	Brush Holder					
GAS-17	1	Brush Spring					
GAS-18	1	Brush Spring					
GAS-1021L	1	Brush Holder Plate Part Assembly					
6X-878	2	#8-32x7/16 Fill. Hd. Sc.					
X-1275	2	#8 Skpf. Washer					
6X-55	3	#8-32x3/8 Rd. Hd. Screw					
X-195	1	#8 Lock Washer					
			1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
GAS-89	1	Armature Shaft Spacer					
GAS-3114	1	Armature Assembly					
GAS-53	1	Snap Ring					
X-160	1	7/16-20 Hex. Nut					
X-1460	1	#212 Woodruff Key					

Drive End Head Assembly & Parts Used With

GAS-1075	1	D.E. Head Assembly					
DB-13	1	Flat Felt Guard					
GAS-73	1	Cupped Felt Guard					
GAS-74	1	Bearing Retainer					
GAS-75	1	Drive End Head					
SC-127	1	Felt Washer					
6X-55	3	#8-32x3/8 Rd. Hd. Screw					
X-195	3	#8 Lock Washer					
X-294	1	Ball Brg. - S.A.E. #202					
X-489	1	1/4 Oiler - Press in Type					

Dist. Mounting Housing & Parts Used With

GAG-58	1	Dist. Mtg. Housing Clamp					
GT-121B	1	Dist. Mtg. Housing					
GW-19	1	Bearing Cover					
IG-86	1	Dist. Drive Rivet					
IG-256	1	Dist. Gear - Driver					
6X-53	1	#8-32x5/8 Rd. Hd. Screw					
6X-141	1	#8-32 Hex. Nut					
X-505	1	1/8 Pipe Plug					
X-544	3	#10 Lock Washer					
6X-900	3	#10-32x7/8 Fill. Hd. Screw					

Miscellaneous Parts

CB-4014	1	Circuit Breaker Assy.					
CB-123	1	Armature Spring					
CB-160S	1	C.B. Cover					
PX-55	1	#10-32x3/16 Bdg. Hd. Sc.					
X-196	2	#10 Lock Washer					
8X-312	1	#10-32x1/4 Rd. Hd. Screw					
GAS-87	2	C.B. Spacer					
GAS-1024	1	Head Band Assembly					
X-196	2	#10 Lock Washer					
6X-311	2	#10-32x3/8 Rd. Hd. Screw					
X-715	1	#10-32x1 1/4 Rd. Hd. Screw					
6X-794	1	#10-32 Square Nut					
			1	2	3	4	5

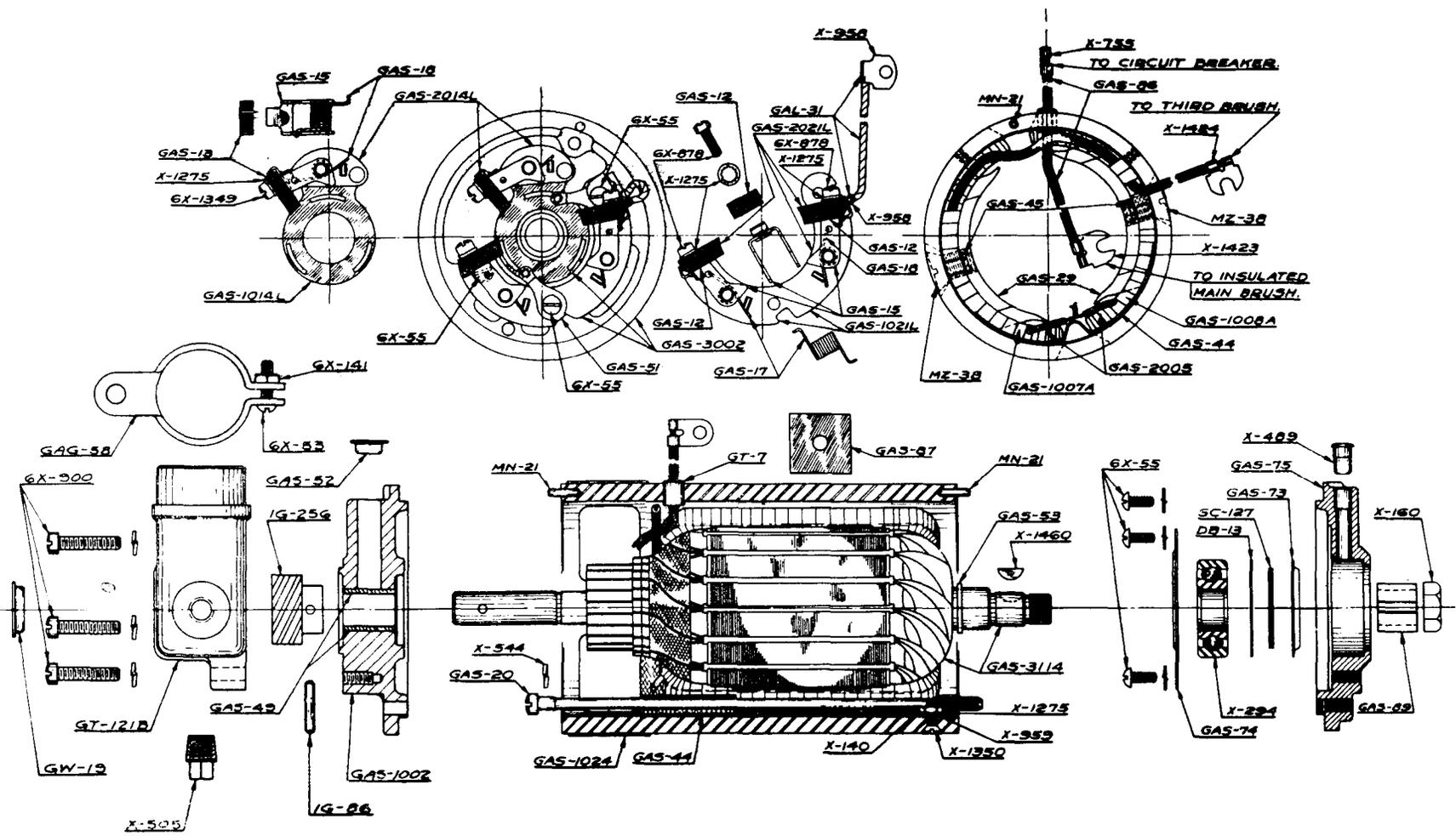
(Issued 3-16-33)
(R-7-15-36)

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Equipment & Parts Lists Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

GAS-4114 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4119 GENERATOR PARTS LIST

GAS-4119

Frame & Field Assembly & Parts Used With					Comm. End Head Assy. (Con't.)				
Part No.	No. Used	Name of Part			Part No.	No. Used	Name of Part		
		1	2	3			1	2	3
GAS-20A	2				8X-55	3			
(GAS-2138)	1	Bolt, Thru			X-195	1	Screw, Plate Attaching, Rd. hd., #8-32x3/8		
GAS-44	1	Frame & Field Assy.			X-489	1	Washer, Lock, Plate Sc., #8		
GAS-45	4	Insulation, Field Connection					Oiler, Hinge Top, Press in, 1/4		
GAS-86	1	Holder, Field Coil			IA-175	1	Washer, Plain, Felt Retaining		
X-1423	1	Lead Assy.			8X-61	1	Screw, Bearing Retaining, Flat hd., #10-32x7/16		
GAS-2005A	1	Terminal			X-63	3	Screw, Cover Holding, Flat hd., #8-32x3/8		
GAS-1007B	1	Coil Assy., Field, Comp.			X-293	1	Bearing, Ball, S.A.E. #201		
X-1423	1	Coil Assy., Field, Left Terminal			Armature Assembly & Parts Used With				
GAS-1008A	1	Coil Assy., Field, Right Terminal			GAS-129	1	Oil Thrower		
X-959	1	Bushing, Insulating			GAS-2136	1	Armature Assy.		
GT-7	1	Pin, Dowel, Head Locating			GAS-53	1	Snap Ring, D.E.		
MN-21	2	Screw, Pole Shoe			IA-158	1	Snap Ring, C.E.		
MZ-38	2	Nut, Field Ground, Hex., #6-32			X-160	1	Nut, Armature Shaft, Hex., 7/16-20		
X-140	1	Terminal			X-1278	1	Washer, Skpf., Arm. Shaft, 7/16		
X-755	1	Washer, Skpf., Field Grd., #8			X-1460	1	Key, Woodruff, #212		
X-1275	1	Screw, Field Ground, Flat hd., #6-32x7/16			Drive End Head Assembly & Parts Used With				
X-1350	1	Washer, Lock, Thru Bolt, #10			GAS-1137	1	Head Assy., Drive End		
X-544	2	Comm. End Head Assembly & Parts Used With			GAS-137	1	Head, Drive End		
GAS-69A	1	Cover, Comm. End			GAS-139	1	Retainer, Bearing		
GAS-70	1	Gasket, Cover, Comm. End			GAS-140	1	Gasket, Retainer		
GAS-71	1	Washer, Bearing Retaining			8X-55	3	Screw, Retainer, Rd. hd., #8-32x3/8		
GAS-77	1	Washer, Felt			X-195	3	Washer, Lock, Retainer Sc., #8		
GAS-78	1	Retainer, Felt Washer			X-1470	1	Bearing, Ball, Shielded, S.A.E. #202		
(GAS-2079)	1	Head Assy., Comm. End			Miscellaneous Parts				
GAS-51	2	Spring, Retaining, 3rd Brush Plate			CB-4014	1	Relay Assy., Cutout		
GAS-79	1	Head			CB-123	1	Spring, Armature		
GAS-2021R	1	Plate Assy., Main Brush			CB-160S	1	Cover		
GAL-31	1	Lead Assy., Ground Terminal			PX-55	1	Screw, Arm. Term., Bdg. hd., #10-32x3/16		
X-958	2	Holder, Brush			X-196	2	Washer, Lock, Term. Sc., #10		
GAS-15	2	Spring, Brush, Grounded			8X-312	1	Screw, Bat. Term., Rd. hd., #10-32x1/4		
GAS-17	1	Spring, Brush, Insulated			GAS-87	2	Spacer, Relay Mounting		
GAS-18	1	Plate, Main Brush			GAS-1024	1	Band, Cover		
GAS-1021R	1	Brush, Main			X-196	2	Washer, Lock, Cutout Relay Mtg., #10		
GEM-12*	2	Screw, Grounded Brush, Fil. hd., #8-32x1/2			8X-311	2	Screw, Mounting, Cutout Relay, Rd. hd., #10-32x3/8		
8X-122	1	Washer, Lock, Brush Screw, #8			X-714	1	Screw, Cover Band, Rd. hd., #10-32x1 1/2		
X-1013	2	Screw, Ins. Brush, Bdg. hd., #8-32x7/16			8X-794	1	Nut, Cover Band, Square, #10-32		
8X-1496	1	Plate Assy., 3rd Brush					1	2	3
GAS-2082R	1	Holder, Brush					4	5	
GAS-15	1	Spring, Brush					(Issued 4-26-44)		
GAS-17	1	Plate, 3rd Brush							
GAS-1082R	1	Brush							
GEM-13*	1	Washer, Lock, Brush Screw, #8							
X-1013	1	Screw, Brush, Bdg. hd., #8-32x7/16							
8X-1496	1								

* Brush Set, Service, GEM-2012S.

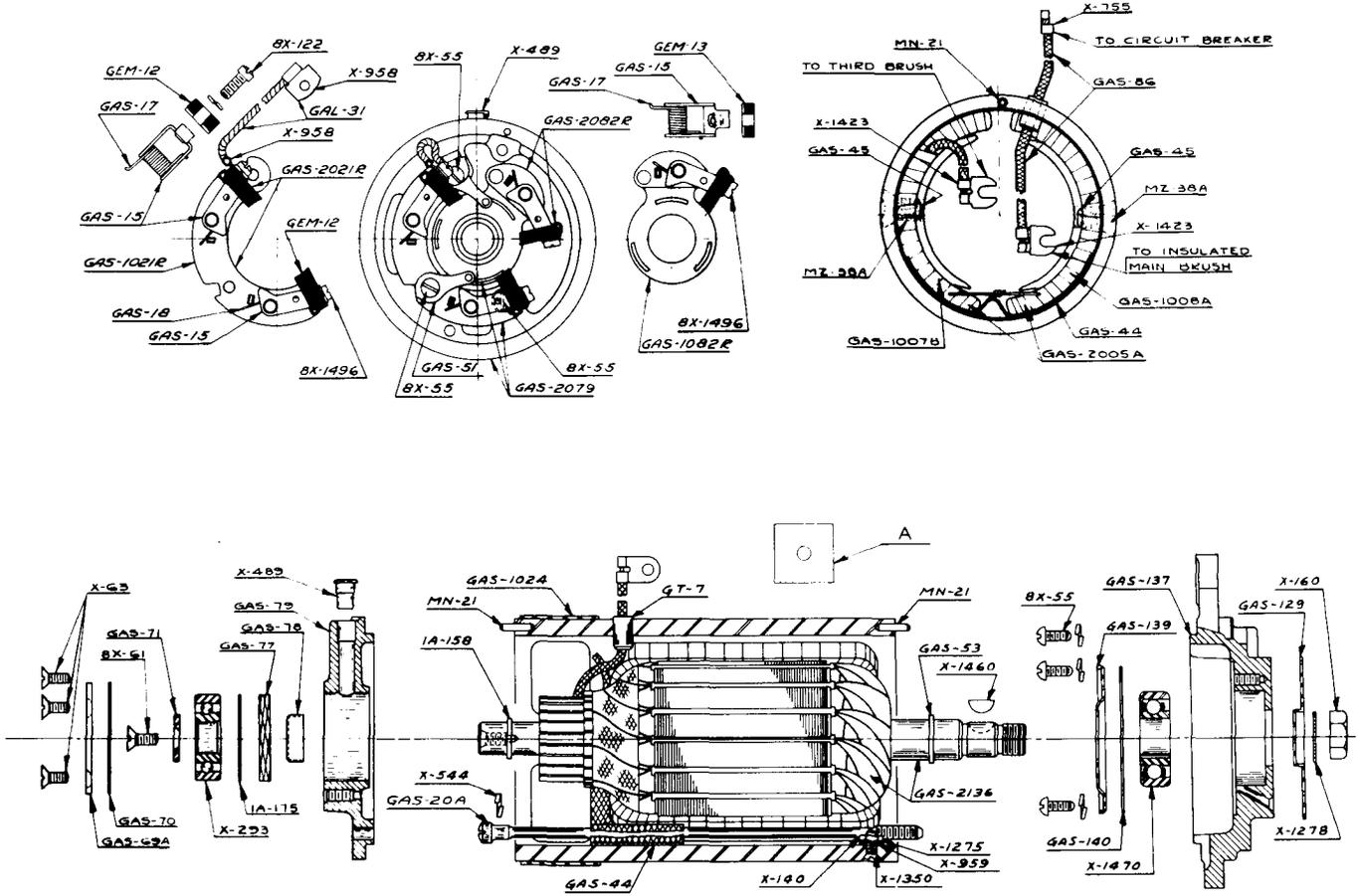
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GAS-4119 GENERATOR ILLUSTRATION



UNIT	A
GAS-4119	GAS-87
GAS-4190	NONE

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4120 GENERATOR PARTS LIST

GAS-4120

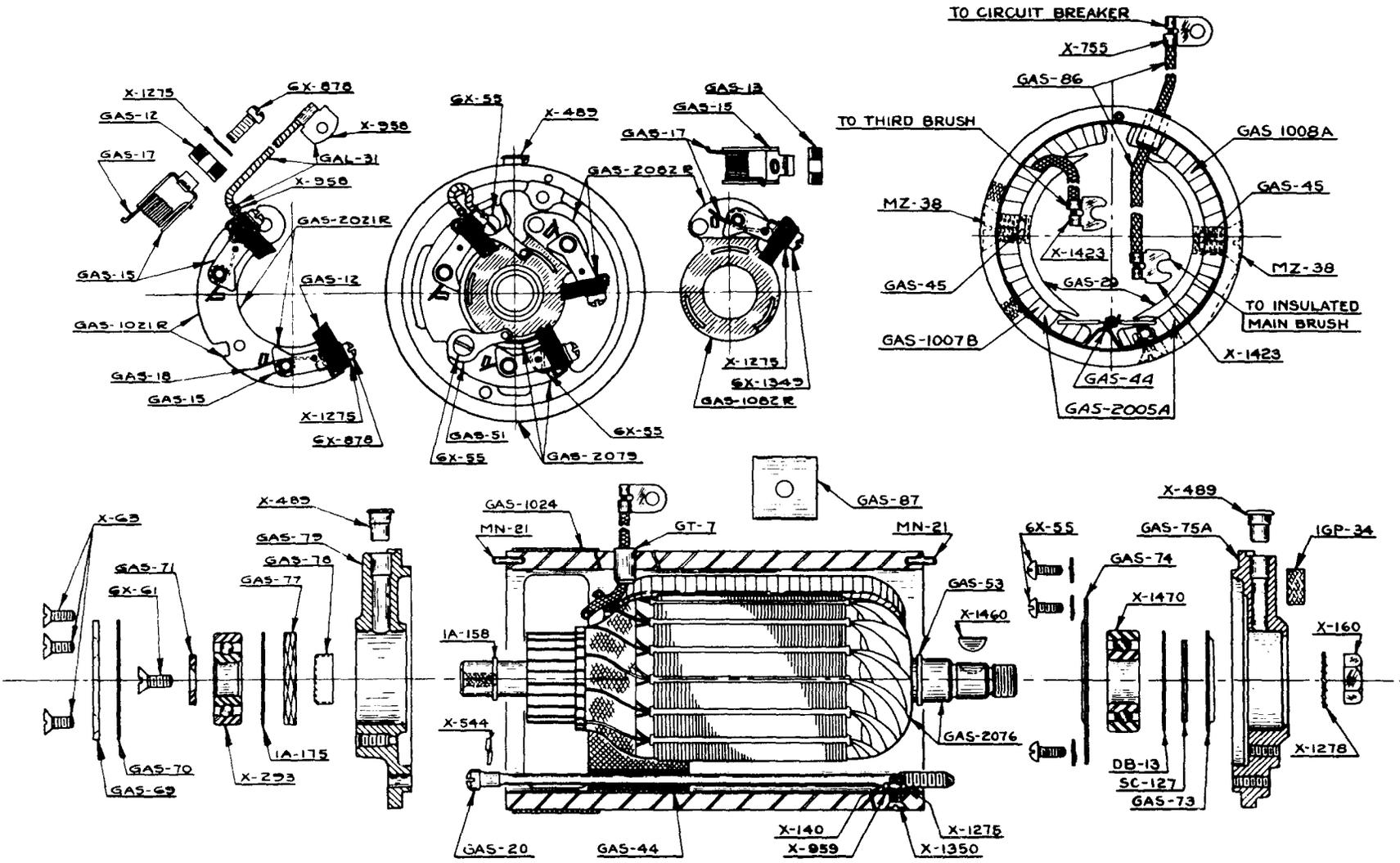
Frame & Field Assembly & Parts Used With					Armature Assembly & Parts Used With								
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
(GAS-2141)	1	Frame & Field Assembly					GAS-2076	1	Armature Assembly				
GAS-29	2	Pole Piece					GAS-53	1	Snap Ring				
GAS-44	1	Field Connection Ins.					IA-158	1	Snap Ring				
GAS-45	4	Field Coil Holder					X-160	1	7/16-20 Hex. Nut				
GAS-86	1	C.B. Lead Assembly					X-1278	1	7/16 Skpf. Washer				
X-1423	1	Terminal					X-1460	1	#212 Woodruff Key				
GAS-2005A	1	Field Coil Assy. - Comp.					Drive End Head Assembly & Parts Used With						
GAS-1007B	1	Field Coil Assy.-Left					GAS-1075C	1	Drive End Head Assembly				
X-1423	1	Terminal					DB-13	1	Flat Felt Guard				
GAS-1008A	1	Field Coil Assy.-Right					GAS-73	1	Cupped Felt Guard				
X-959	1	Terminal					GAS-74	1	Bearing Retainer				
GT-7	1	Insulating Bushing					GAS-75A	1	Drive End Head				
MN-21	2	Dowel Pin					IGP-34	1	Felt Wick				
MZ-38	2	Pole Piece Screw					SC-127	1	Felt Washer				
X-140	1	#6-32 Hex. Nut					8X-55	3	#8-32x3/8 Rd. Hd. Sc.				
X-755	1	Terminal					X-195	3	#8 Lock Washer				
X-1275	1	#8 Skpf. Washer					X-489	1	1/4 Oiler - Press in Type				
X-1350	1	#6-32x7/16 Flat Hd. Sc.					X-1470	1	Ball Brg. - S.A.E. #202				
GAS-20	2	Frame Screw					Miscellaneous Parts						
X-544	2	#10 Lock Washer					CB-4014	1	Circuit Breaker Assy.				
Comm. End Plate Assembly & Parts Used With					CB-123	1	Armature Spring						
GAS-69	1	Comm. End Cap Cover					CB-160	1	C.B. Cover				
GAS-70	1	End Cap Cover Gasket					PX-55	1	#10-32x3/16 Bdg. Hd. Sc.				
GAS-71	1	Brg. Retaining Washer					X-196	2	#10 Lock Washer				
GAS-77	1	Felt Washer					8X-312	1	#10-32x1/4 Rd. Hd. Screw				
GAS-78	1	Felt Washer Retainer					GAS-87	2	C.B. Spacer				
(GAS-2079)	1	Comm. End Plate Assy.					GAS-1024	1	Head Band Assembly				
GAS-51	2	3rd Br. Plate Retain'g Spring					X-196	2	#10 Lock Washer				
GAS-79	1	Comm. End Plate					8X-311	2	#10-32x3/8 Rd. Hd. Screw				
GAS-2021R	1	Brush Holder Plate Assy.					X-715	1	#10-32x1 1/4 Rd. Hd. Sc.				
GAL-31	1	Ground Connector Assy.					8X-794	1	#10-32 Square Nut				
X-958	2	Terminal							1	2	3	4	5
GAS-12	2	Brush - Main					(Issued 11-11-35)						
GAS-15	2	Brush Holder											
GAS-17	1	Brush Spring											
GAS-18	1	Brush Spring											
GAS-1021R	1	Brush Holder Plate Part Assy.											
8X-878	2	#8-32x7/16 Fill. Hd. Screw											
X-1275	2	#8 Skpf. Washer											
GAS-2082R	1	3rd Br. Holder Plate Assy.											
GAS-13	1	Brush - 3rd											
GAS-15	1	Brush Holder											
GAS-17	1	Brush Spring											
GAS-1082R	1	3rd Br. Holder Plate Part Assy.											
X-1275	1	#8 Skpf. Washer											
8X-1349	1	#8-32x3/8 Fill. Hd. Sc.											
8X-55	3	#8-32x3/8 Rd. Hd. Screw											
X-195	1	#8 Lock Washer											
X-489	1	1/4 Oiler - Press in Type											
IA-175	1	Flat Steel Washer											
8X-61	1	#10-32x7/16 Flat Hd. Screw											
X-63	3	#8-32x3/8 Flat Hd. Screw											
X-293	1	Ball Brg. - S.A.E. #201											
		1	2	3	4	5							

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GAS-4120 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4123 GENERATOR PARTS LIST

GAS-4123

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GAS-20A	2	Bolt, Thru
(GAS-2138)	1	Frame & Field Assy.
GAS-44	1	Insulation, Field Connection
GAS-45	4	Holder, Field Coil
GAS-86	1	Lead Assembly
X-1423	1	Terminal
GAS-2005A	1	COIL ASSY., FIELD; COMPLETE
GAS-1007B	1	Coil Assy., Field, Left
X-1423	1	Terminal
GAS-1008A	1	Coil Assy., Field, Right
X-959	1	Terminal
GT-7	1	Bushing, Insulating
MN-21	2	Pin, Dowel
MZ-38A	2	Screw, Pole Shoe
X-140	1	Nut, Grd. Sc., Hex. #6-32
X-755	1	Terminal
X-1275	1	Washer, Ground Sc., Skpf. #8
X-1350	1	Screw, Field Ground, Flat Hd. #6-32x7/16
X-196	2	Lockwasher, Thru Bolt, #10

Comm. End Head Assembly & Parts Used With

GAS-69A	1	Cover, Comm. End
GAS-70	1	Gasket, C.E. Cover
GAS-71	1	Washer, Bearing Retaining Sc.
GAS-77	1	Washer, Felt
GAS-78	1	Retainer, Felt Washer
GAS-2079	1	Head Assy., Comm. End
GAS-51	2	Spring, Retaining, 3rd Brush Plate
GAS-79B	1	Head, Comm. End
GAS-2021R	1	Plate Assy., Main Brush
GAL-31	1	Lead Assy., Ground
X-958	2	Terminal
GAS-15	2	Holder, Brush
GAS-17	1	Spring, Brush, Grounded
GAS-18	1	Spring, Brush, Insulated
GAS-1021R	1	Plate, Main Brush
GEM12 †	2	Brush, Main
8X-122	1	Screw, Grounded Brush, Fill. Hd. #8-32x1/2
X-195	2	Lockwasher, Brush Sc., #8
8X-1496	1	Screw, Ins., Brush, Bdg. Hd. #8-32x7/16
GAS-2082R	1	Plate Assy., 3rd Brush
GAS-15	1	Holder, Brush
GAS-17	1	Spring, Brush
GAS-1082R	1	Plate, 3rd Brush
GEM-13 †	1	Brush, Third
X-195	1	Lockwasher, Brush Sc., #8

Comm. End Head Assy. (Cont'd.)

Part No.	No. Used	Name of Part
8X-1496	1	Screw, Brush, Bdg. Hd. #8-32x7/16
8X-55	3	Screw, Br. Plate, Rd. Hd. #8-32x3/8
X-195	1	Lockwasher, Plate Sc., #8
X-489	1	Oiler
IA-175	1	Washer, Plain, Felt Retaining
8X-61	1	Screw, Brg. Retaining, Flat Hd. #10-32x7/16
X-63	3	Screw, Cover, Flat Hd. #8-32x3/8
X-293	1	BEARING, BALL, S.A.E. #201

Armature Assembly & Parts Used With

GAS-129	1	Oil Thrower
GAS-2136	1	ARMATURE ASSY.
GAS-53	1	Snap Ring, D.E.
IA-158	1	Snap Ring, C.E.
X-160	1	Nut, Shaft, D.E., Hex. 7/16-20
X-1278	1	Washer, Shaft, D.E., Skpf. 7/16
X-1460A	1	Key, Woodruff, #212

Drive End Head Assembly & Parts Used With

GAS-1144	1	Head Assy., Drive End
GAS-139	1	Retainer, Bearing
GAS-140	1	Gasket, Retainer
GAS-144	1	Head, Drive End
8X-55	3	Screw, Brg. Retainer, Rd. Hd. #8-32x3/8
X-195	3	Lockwasher, Retainer Sc., #8
X-1470	1	BEARING, BALL, SHIELDED, S.A.E. #202

Miscellaneous Parts

CB-4014	1	RELAY ASSY., CUTOUT
CB-123	1	Spring, Armature
CB-160S	1	Cover, Relay
PX-55	1	Screw, Arm. Term., Bdg. Hd. #10-32x3/16
12X-196	2	Lockwasher, Term. Sc., #10
8X-312	1	Screw, Bat. Term., Rd. Hd. #10-32x1/4
GAS-87	2	Spacer, Relay Mtg.
GAS-1024F	1	Band, Cover
X-196	2	Lockwasher, Relay Mtg. Sc., #10
8X-311	2	Screw, Relay Mtg., Rd. Hd. #10-32x3/8
X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32

† BRUSH SET, SERVICE GEM-2012S.

UNIT	APPLICATION
GAS-4123	Hercules

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(Issued 3-24-50)

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