

# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

## GAS- 4305 GENERATOR PARTS LIST

GAS- 4305  
(Issued 4-8-57)

### Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GAS- 20A	2	Bolt, Thru
GAS- 2364	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, COMP.
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, Ground Sc., Hex. #6- 32
X- 755	1	Terminal
X- 1275	1	Washer, Grd. Sc., Skpf. #8
X- 1350	1	Screw, Field Grd., Flat Hd. #6- 32x7/16
12X- 196	2	Lockwasher, Thru Bolt, #10

### Comm. End Head Assembly & Parts Used With

GAS- 2132AS	1	Head Assy., Comm. End
GAS- 51	2	Spring, Retaining, 3rd.Br.Pl.t.
GAS- 281	1	Wick, Felt
GAS- 1132S	1	Head Assy., Partial, C. E.
GAS- 49	1	BEARING, ABS. BRONZE
GAS- 2021RA	1	Plate Assy., Main Brush
GAL- 31	1	Lead Assy., Ground
X- 958	2	Terminal
GAS- 12†	2	Brush, Main
GAS- 15	2	Holder, Brush
GAS- 17	1	Spring, Brush, Grounded
GAS- 18	1	Spring, Brush, Insulated
GAS- 1021R	1	Plate, Main Brush
8X- 122	1	Screw, Grounded Brush, Fill. Hd. #8- 32x1/2
12X- 195	2	Lockwasher, Brush Sc. #8
8X- 1496	1	Screw, Ins. Brush, Bdg. Hd. #8- 32x7/16
GAS- 2126A	1	Plate Assy., 3rd. Brush
GAS- 13†	1	Brush, Third
GAS- 15	1	Holder, Brush
GAS- 17	1	Spring, Brush
GAS- 1126	1	Plate, 3rd Brush
12X- 195	1	Lockwasher, Brush Sc., #8
8X- 878	1	Screw, 3rd. Brush Fill. Hd. #8- 32x7/16
IG- 515A	1	Spring, Felt Wick
8X- 55	3	Sc., Rd. Hd. #8- 32x3/8
12X- 195	1	Lockwasher, #8
X- 1275	1	Washer, Wick Spring
X- 1573	1	Oiler

### Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part
GAS- 1176	1	Oiler Thrower
GAS- 2175	1	ARMATURE
GK- 174A	1	Washer, Arm. Shaft, D. E.
X- 263	1	Key Woodruff, D. E., #8
X- 404	1	Pin, Cotter
X- 835	1	Nut, Arm. Shaft, D. E.

### Drive End Head Assembly & Parts Used With

GAS- 1232AS	1	Head Assy., Drive End
GAS- 177	1	Retainer, Bearing
GAS- 232AS	1	Head, Drive End
8X- 63	3	Sc., Flat Hd. #8- 32x3/8
X- 3003	1	BEARING, BALL, SHIELDED S. A. E. #204

### Dist. Mounting Housing & Parts Used With

GAG- 58	1	Clamp, Dist. Mtg. Housing
GAL- 98	1	Housing, Dist. Mtg.
GE- 58	1	Gear, Dist., Driver
GW- 19A	1	Cover, Bearing, C. E.
SW- 213	1	Rivet, Gear
8X- 53	1	Screw, Dist. Housing Clamp Rd. Hd. #8- 32x5/8
8X- 141	1	Nut, Clamp Sc., Hex #8- 32
12X- 196	3	Lockwasher, Housing Sc., #10
X- 382	1	Cup, Grease, 1/8 Pipe
8X- 900	3	Screw, Dist. Housing Mtg., Fill. Hd. #10- 32x7/8

### 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	Sc., Bat. Term., Rd. Hd. #10- 32x1/4
GAS- 87	2	Spacer, Relay Mtg.
GAS- 1024JS	1	Band, Cover
12X- 196	2	Lockwasher, 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, Sq. #10- 32

### † BRUSH SET, SERVICE GAS- 2012

UNIT	APPLICATION
GAS- 4305	Wisconsin Engine

Printed in U. S. A.

File in  
Equipment & Parts List Binder

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



# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

## GAS- 4306 GENERATOR PARTS LIST

GAS- 4306  
(Issued 4-8-57)

### Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GAS- 20A	2	Bolt, Thru
GAS- 2365	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, COMP.
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, Ground Sc., Hex. #6- 32
X- 755	1	Terminal
X- 1275	1	Washer, Grd. Sc., Skpf. #8
X- 1350	1	Screw, Field Grd., Flat Hd. #6- 32x7/16
12X- 196	2	Lockwasher, Thru Bolt, #10

### Comm. End Head Assembly & Parts Used With

GAS- 2174B	1	Head Assy., Comm. End
GAS- 51	2	Spring, Retaining, 3rd. Br. Plt
GAS- 281	1	Wick, Felt
GAS- 1174	1	Head Assy., Partial, C. E.
GAS- 49	1	BEARING, ABS. BRONZE
GAS- 2021RA	1	Plate Assy. Main Brush
GAL- 31	1	Lead Assy., Ground
X- 958	2	Terminal
GAS- 121	2	Brush, Main
GAS- 15	2	Holder, Brush
GAS- 17	1	Spring, Brush, Grounded
GAS- 18	1	Spring, Brush, Insulated
GAS- 1021R	1	Plate, Main Brush
8X- 122	1	Screw, Grounded Brush, Fill. Hd. #8- 32x1/2
12X- 195	2	Lockwasher, Brush Sc. #8
8X- 1496	1	Sc. Ins. Br., Bdg. Hd. #8- 32x7/16
GAS- 2126A	1	Plate Assy., 3rd. Brush
GAS- 13†	1	Brush, Third
GAS- 15	1	Holder, Brush
GAS- 17	1	Spring, Brush
GAS- 1126	1	Plate, 3rd. Brush
12X- 195	1	Lockwasher, Brush Sc. #8
8X- 878	1	Screw, 3rd. Brush, Fill. Hd. #8- 32x7/16
IG- 515A	1	Spring, Felt Wick
8X- 55	3	Screw, Rd. Hd. #8- 32x3/8
12X- 195	1	Lockwasher, #8
X- 1275	1	Washer, Wick Spring
X- 3172	1	Oiler

### Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part
GAS- 1176	1	Oil Thrower
GAS- 2175	1	ARMATURE
GK- 174A	1	Washer, Arm. Shaft, D. E.
X- 263	1	Key, Woodruff, D. E., #8
X- 404	1	Pin, Cotter
X- 835	1	Nut, Arm. Shaft, D. E.

### Drive End Head Assembly & Parts Used With

GAS- 1232B	1	Head Assy., Drive End
GAS- 177	1	Retainer, Bearing
GAS- 232B	1	Head, Drive End
8X- 63	3	Screw, Flat Hd. #8- 32x3/8
X- 3003	1	BEARING, BALL, SHIELDED S. A. E. #204

### Dist. Mounting Housing & Parts Used With

GAG- 58	1	Clamp, Dist. Mtg. Housing
GE- 45	1	Gear, Dist., Driver
GT- 121B	1	Housing, Dist. Mtg.
GW- 19A	1	Cover, Bearing, C. E.
SW- 213	1	Rivet, Gear
8X- 53	1	Screw, Dist. Housing Clamp, Rd. Hd. #8- 32x5/8
8X- 141	1	Nut Clamp Sc., Hex. #8- 32
12X- 196	3	Lockwasher, Housing Sc., #10
X- 382	1	Cup, Grease, 1/8 Pipe
8X- 900	3	Screw, Dist. Housing Mtg. Fill. Hd. #10- 32x7/8

### Miscellaneous Parts

CB- 4014	1	RELAY ASSY., CUTOUT
CB- 123	1	Spring, Armature
CB- 160S	1	Cover, Relay
PX- 55	1	Sc., 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- 1024JS	1	Band, Cover
12X- 196	2	Lockwasher, 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 GAS- 2012

UNIT	APPLICATION
GAS- 4306	Wisconsin Engine

Printed in U. S. A.

File in  
Equipment & Parts List Binder

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# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBB-4304 GENERATOR PARTS LIST

GBB-4304

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
DG-130	2	Frame Screw					
(GGB-2110)	1	Frame & Field Assy.					
DD-13	4	Pole Piece					
DG-42	1	Ins. Bushing					
GGB-1005B	1	Field Coil Assy. - Comp.					
GGB-1007E	1	Field Coil Assy. - U.R.					
DG-65	1	C.B. Lead Assy.					
X-755	1	Terminal					
GGB-1008	1	Field Coil - L.L.					
GGB-1009	1	Field Coil - L.R.					
GGB-1010	1	Field Coil Assy. - U.L.					
X-767	1	Terminal					
GBC-45	1	Field Connection Ins.					
GBC-46	2	Field Connection Ins.					
MN-21	2	Dowel Pin					
SE-9	8	Pole Piece Screw					
X-755	2	Terminal					
8X-159	2	3/8-24 Hex. Nut					
X-201	2	3/8 Lock Washer					

Comm. End Plate Assembly & Parts Used With

DA-22	1	Bearing Retaining Washer					
DA-60	1	Bearing Retaining Screw					
DB-17	1	Felt Guard					
DD-24C	1	End Cap Cover					
DE-44	1	End Cap Cover Gasket					
DG-56	1	Thrust Washer					
(DG-2125A)	1	Comm. End Plate Assy.					
DE-85	2	Steel Washer					
DG-125	1	Comm. End Plate					
DK-41	2	Brush Holder Plate Screw					
DK-42	2	Spring					
GGB-1012†	2	Brush - Main					
GGB-1013†	1	Brush - Third					
GGB-1018	1	3rd Brush Holder Plate Assy.					
DJ-18	1	Brush Holder					
DJ-19	1	Brush Spring					
GGB-1018S	1	Br. Holder Plate Part Assy.					
6X-54	1	#8-32x1/2 Rd. Hd. Sc.					
X-195	1	#8 Lock Washer					
GGB-2073	1	Brush Holder Plate Assy.					
DJ-18	2	Brush Holder					
DJ-19	2	Brush Spring					
GGB-2073S	1	Br. Holder Plate Part Assy.					
6X-56	1	#8-32x7/16 Rd. Hd. Sc.					
X-195	2	#8 Lock Washer					
6X-304	1	#8-32x5/16 Rd. Hd. Sc.					
X-196	1	#10 Lock Washer					
8X-312	1	#10-32x1/4 Rd. Hd. Screw					
GBC-53	1	Felt Washer					
GBC-54	1	Felt Guard					
			1	2	3	4	5

Comm. End Plate Assembly (Continued)

Part No.	No. Used	Name of Part					
			1	2	3	4	5
X-196	5	#10 Lock Washer					
X-199	1	1/4 Lock Washer					
8X-312	2	#10-32x1/4 Rd. Hd. Screw					
X-365	1	Ball Brg. - S.A.E. #303					
X-489	1	1/4 Oiler - Press in Type					
8X-87C	3	#10-32x5/16 Fill. Hd. Screw					

Armature Assembly & Parts Used With

GAE-1046	1	Oil Thrower					
GGB-2120	1	Armature Assembly					
X-157	1	1/2-20 Slotted Nut					
X-263	1	#8 Woodruff Key					
X-358	1	1/2 Plain Steel Washer					
X-404	1	3/32x1 Cotter Pin					

Drive End Head Assembly & Parts Used With

DG-1121	1	Drive End Head Assy.					
DG-121	1	Drive End Head					
DG-131	1	Flat Brg. Retainer					
8X-66	3	#10-32x1/2 Flat Hd. Sc.					
X-413	1	Ball Brg. - Shielded - S.A.E. #304					

Miscellaneous Parts

GGB-1031A	1	Head Band Assy.					
TC-4303C	1	Two Charge Regulator & Circuit Breaker					
8X-120	1	#10-32x5/8 Fill. Hd. Screw					
X-196	4	#10 Lock Washer					
8X-321	4	#10-32x5/16 Rd. Hd. Screw					
			1	2	3	4	5

(Issued 11-16-37)

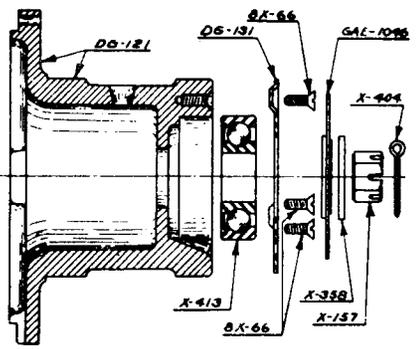
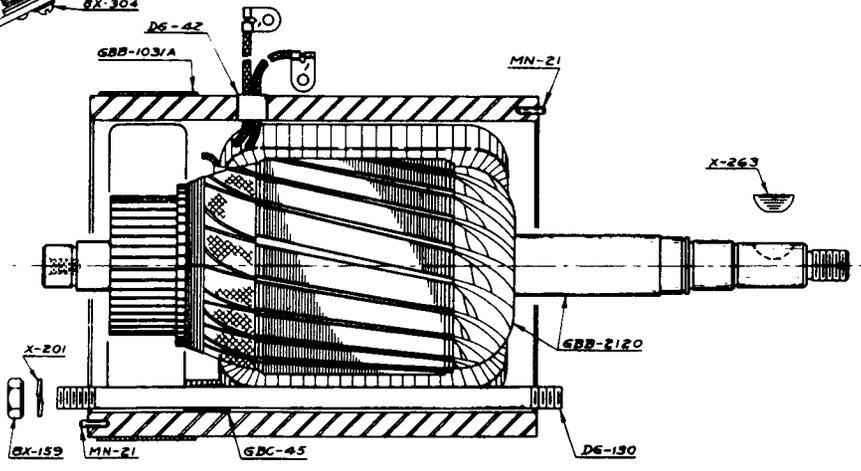
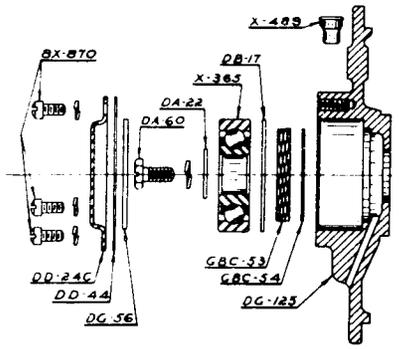
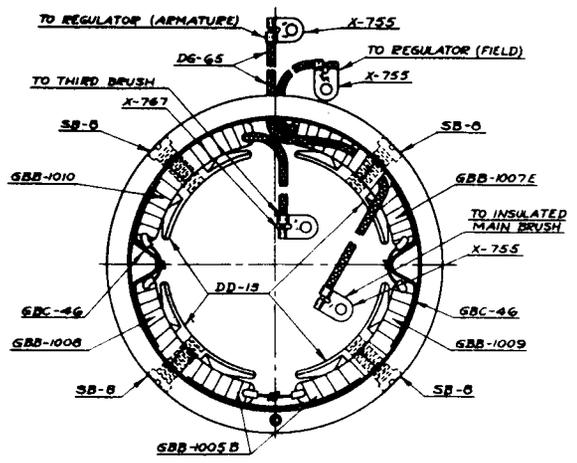
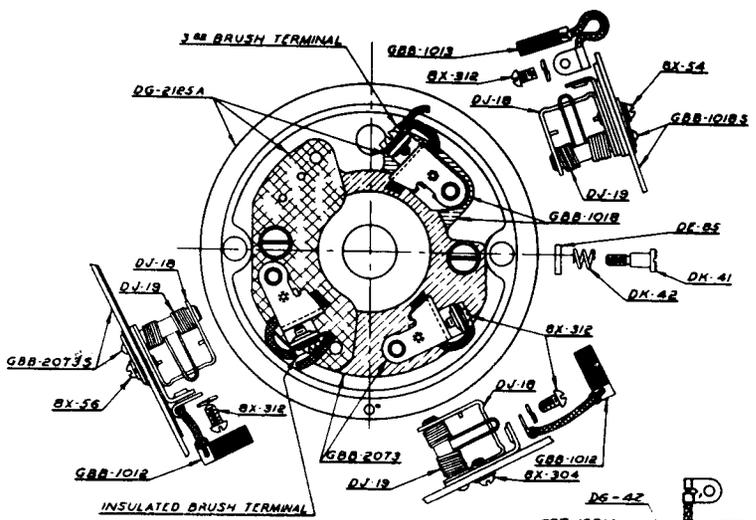
† Service Brush Set GBB-2012A.

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GBB-4304 GENERATOR ILLUSTRATION



# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBC-4103 GENERATOR PARTS LIST

GBC-4103

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
(DG-2133)	1	Frame & Field Assy.					
DG-29	4	Pole Piece					
DG-42	1	Insulating Bushing					
DG-1005E	1	Field Coil Assy. - Comp.					
DD-1008	1	Field Coil - L.L.					
DD-1009	1	Field Coil - L.R.					
DG-1007E	1	Field Coil Assy.-U.R.					
DG-65	1	C.B. Lead Assy.					
X-755	1	Terminal					
DG-1010	1	Field Coil Assy.-U.L.					
X-767	1	Terminal					
GBC-45	1	Field Connection Ins.					
GBC-46	2	Field Connection Ins.					
MN-21	2	Dowel Pin					
SB-8B	8	Pole Piece Screw					
X-755	2	Terminal					
GBC-52	2	Frame Screw					
8X-159	2	3/8-24 Hex. Nut					
X-201	2	3/8 Lock Washer					

Comm. End Plate Assembly & Parts Used With

DB-17	2	Felt Guard					
DD-44	1	End Cap Cover Gasket					
DE-79B	1	End Head Bearing Cover					
DE-82	2	Felt Washer					
GAU-1012	2	Brush - Main					
GAU-1013	1	Brush - 3rd					
GBC-53	1	Felt Washer					
GBC-54	1	Felt Guard					
GBC-55	1	Armature Shaft Nut					
GBC-60	1	Field Ground Screw					
(GBC-2002)	1	Comm. End Plate Assy.					
DE-85	1	Steel Washer					
DE-1076	1	3rd Brush Holder Plate Assembly					
DE-1076S	1	Brush Holder Plate Part Assembly					
DJ-18	1	Brush Holder					
DJ-19	1	Brush Spring					
6X-54	1	#8-32x1/2 Rd. Hd. Sc.					
X-195	1	#8 Lock Washer					
DE-2073	1	Brush Holder Plate Assy.					
DE-1073S	1	Brush Holder Plate Part Assembly					
DJ-18	2	Brush Holder					
DJ-19	2	Brush Spring					
6X-56	1	#8-32x7/16 Rd. Hd. Sc.					
X-195	2	#8 Lock Washer					
6X-304	1	#8-32x5/16 Rd. Hd. Sc.					
DK-41	2	Brush Holder Plate Screw					
DK-42	2	Spring					
GBC-34	1	3rd Brush Stop					
GBC-1002	1	C.E. Plate Part Assy.					
PX-41	1	1/2 Gasket					
8X-62	3	#10-32x3/8 Flat Hd. Screw					
X-196	4	#10 Lock Washer					
8X-312	4	#10-32x1/4 Rd. Hd. Screw					
X-365	1	Ball Brg. - S.A.E. #303					
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					
			1	2	3	4	5
GBC-47	1	Armature Shaft Sleeve					
GBC-1050	1	Oil Thrower					
GBC-2035	1	Armature Assembly					

Drive End Head Assembly & Parts Used With

GBC-1003A	1	Drive End Head Assy.					
GBC-3A	1	Drive End Head					
GBC-48	1	Paper Gasket					
GBC-51	1	Bearing Retainer					
X-196	3	#10 Lock Washer					
X-300	1	Ball Brg. - S.A.E. #205					
6X-311	3	#10-32x3/8 Rd. Hd. Screw					
X-399	1	Oiler - 1/4 Special Elbow					

Miscellaneous Parts

GBC-2039	1	Head Band Assembly					
TC-4305A	1	Two Charge Regulator					
8X-118	1	#10-32x3/4 Fill. Hd. Screw					
8X-870	4	#10-32x5/16 Fill. Hd. Screw					
X-1270	4	#10 Skpf. Washer					
			1	2	3	4	5

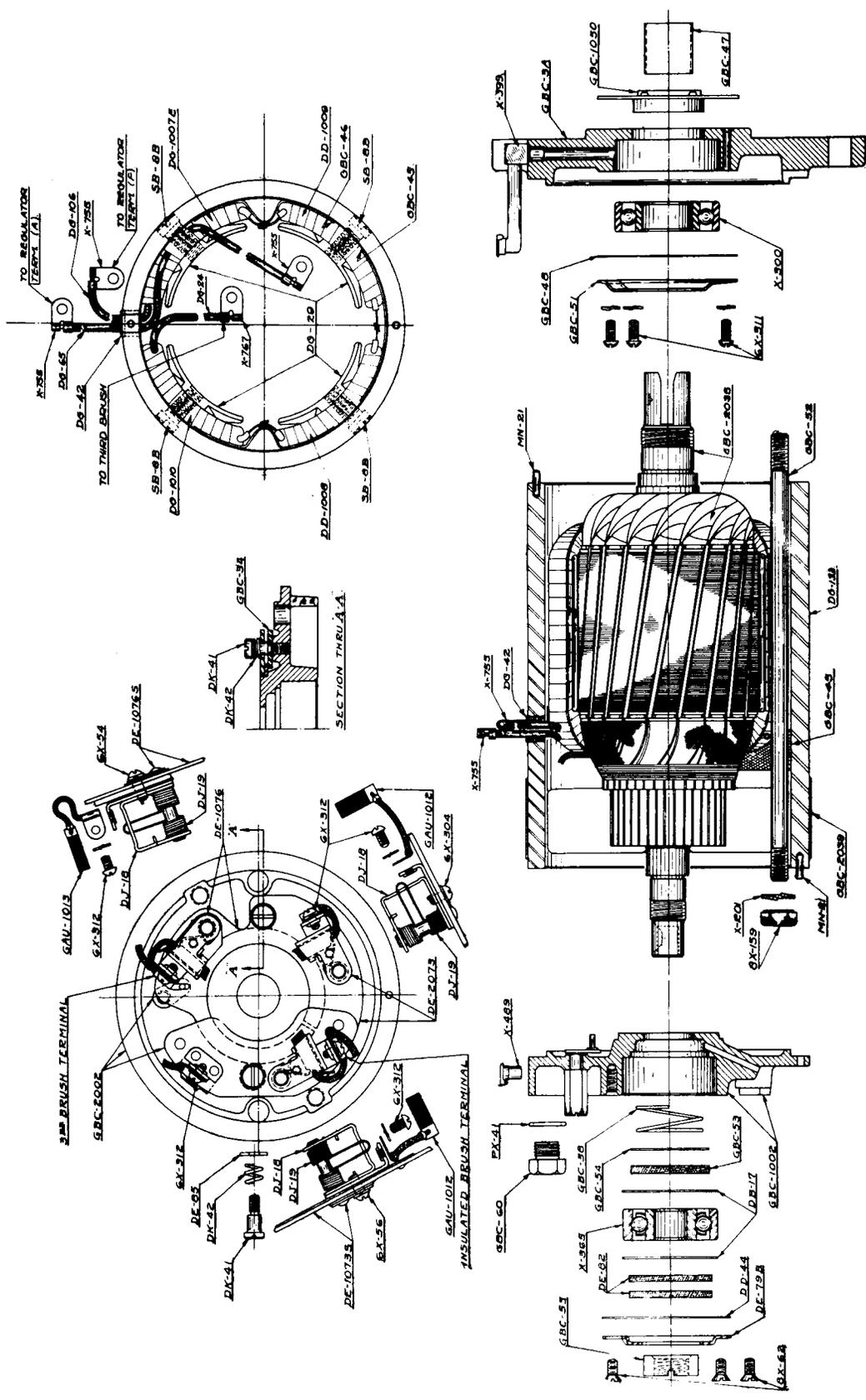
(Issued 1-30-35)  
(R-12-10-36)

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# GBC-4103 GENERATOR ILLUSTRATION



# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBE-4203 GENERATOR PARTS LIST

GBE-4203

Frame & Field Assembly & Parts Used With						Drive End Head 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-225	1	Fuse Cover					GAL-1118	1	D.E. Head Assy.					
(GBE-2268)	1	Frame & Field Assy.					GAL-59	1	Bronze Bearing					
GAL-29	2	Pole Piece					GT-124	1	Felt Wick					
GAL-44	1	Field Connection Ins.					X-1041	1	#13x5/16 Escutcheon Pin					
GAL-1224	1	Fuse Holder					<u>Dist. Mounting Housing &amp; Parts Used With</u>							
GAR-211	1	Insulating Bushing					GAG-1058	1	Dist. Mtg. Housing Clamp Assembly					
GBE-1005B	1	Field Coil Assy. - Comp.					GAG-58	1	Dist. Mtg. Housing Clamp					
GBE-1007C	1	Field Coil Assy. - Left					8X-47	1	#8-32x9/16 Rd. Hd. Sc.					
GAL-296	1	C.B. Lead Assy.					8X-141	1	#8-32 Hex. Nut					
X-755	1	Terminal					GBE-44	1	Dist. Mounting Housing					
X-1425	1	Terminal					GE-21	1	Dist. Gear - Driver					
X-976	1	Terminal					GG-133	1	Dist. Drive Rivet					
GBE-1008	1	Field Coil Assy. - Right					GJ-170	1	Felt Washer					
X-976	1	Terminal					GJ-171	1	Felt Washer Retainer					
GK-38	2	Pole Piece Screw					8X-119	2	#10-32x1/2 Fill. Hd. Screw					
MN-21	2	Dowel Pin					X-380	1	1/8 Grease Cup					
8X-59	1	#8-32x3/16 Rd. Hd. Screw					X-489	1	1/4 Oiler - Press in Type					
X-195	1	#8 Lock Washer					X-544	2	#10 Lock Washer					
MW-20	2	Frame Screw					<u>Miscellaneous Parts</u>							
X-199	2	1/4 Lock Washer					GAL-1024E	1	Head Band Assembly					
X-842	1	Fuse - 5 Ampere					RA-4002	1	Circuit Breaker Assy.					
<u>Comm. End Plate Assembly &amp; Parts Used With</u>						CB-123	1	Armature Spring						
DA-39	3	Flat Oil Guard					CB-160	1	C.B. Cover					
DA-70	1	Armature Shaft Nut					PX-55	1	#10-32x3/16 Bdg. Hd. Sc.					
GAG-116	1	Dowel Pin Screw - #10-32					X-196	2	#10 Lock Washer					
(GAL-2213)	1	Comm. End Plate Assy.					8X-312	1	#10-32x1/4 Rd. Hd. Screw					
GAL-51	2	3rd Brush Plate Retain'g Spring					X-196	2	#10 Lock Washer					
GAL-1161	1	3rd Brush Plate Assy.					8X-321	2	#10-32x5/16 Rd. Hd. Screw					
GAL-1167†	2	Brush - Main					X-715	1	#10-32x1 1/4 Rd. Hd. Screw					
GAL-1168†	1	Brush - Third					8X-794	1	#10-32 Square Nut					
GAL-1213	1	Comm. End Plate Part Assy.							1	2	3	4	5	
8X-56	2	#8-32x7/16 Rd. Hd. Screw					( Issued 4-30-37 )							
X-195	1	#8 Lock Washer												
8X-305	1	#8-32x1/4 Rd. Hd. Screw												
GR-32	1	Felt Washer Retainer												
GR-35	1	Felt Washer												
GR-73	1	Felt Washer												
X-195	2	#8 Lock Washer												
X-295	1	Ball Brg. - S.A.E. #203												
8X-305	2	#8-32x1/4 Rd. Hd. Screw												
X-489	1	1/4 Oiler - Press in Type												
<u>Armature Assembly &amp; Parts Used With</u>														
GAL-2269	1	Armature Assembly												
GAR-171	1	Snap Ring												
X-263	1	#8 Woodruff Key												
X-1057	1	1/2-20 Castellated Nut												
		1	2	3	4	5								

† Service Brush Set GAL-2167.

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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

GBE-4204 GENERATOR PARTS LIST

GBE-4204

PRELIMINARY

Frame & Field Assembly & Parts Used With					Drive End Head 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-225	1	Fuse Cover					GAL-1118	1	Drive End Head Assembly				
(GBE-3268)	1	Frame & Field Assembly					GAL-59	1	BRONZE BEARING				
GAL-29	2	Pole Piece					GT-124	1	Felt Wick				
GAL-44	1	Field Connection Ins.					X-1041	1	#13x5/16 Escutcheon Pin				
GAL-1224	1	Fuse Holder					<u>Dist. Mtg. Housing Assy. &amp; Parts Used With</u>						
GAR-211	1	Insulating Bushing					GAG-1058	1	Dist. Mtg. Housing Clamp Assy.				
GBE-2005A	1	FIELD COIL ASSY.- Comp.					GAG-58	1	Dist. Mtg. Housing Clamp				
GBE-1007D	1	Field Coil Assy.- Left					8X-47	1	#8-32x9/16 Rd. Hd. Sc.				
GAL-266	1	C. B. Lead Assy.					8X-141	1	#8-32 Hex. Nut				
X-755	1	Terminal					GBE-45	1	Dist. Mounting Housing				
X-1425	1	Terminal					GE-21	1	Distributor Gear - Driver				
X-976	1	Terminal					GG-133	1	Distributor Drive Rivet				
GBE-1008	1	Field Coil Assy.-Right					GJ-170	1	Felt Washer				
X-976	1	Terminal					GJ-171	1	Felt Washer Retainer				
GK-38	2	Pole Piece Screw					8X-119	2	#10-32x1/2 Fill. Hd. Screw				
MN-21	2	Dowel Pin					X-380	1	1/8 Grease Cup				
8X-59	1	#8-32x3/16 Rd. Hd. Screw					X-489	1	1/4 Oiler - Press in Type				
X-195	1	#8 Lock Washer					X-544	2	#10 Lock Washer				
MW-20	2	Frame Screw					<u>Miscellaneous Parts</u>						
X-199	2	1/4 Lock Washer					GAL-1024E	1	Head Band Assembly				
X-842	1	Fuse - 5 Amp.					RA-4002	1	CIRCUIT BREAKER ASSEMBLY				
<u>Comm. End Plate Assembly &amp; Parts Used With</u>						CB-123	1	Armature Spring					
DA-39	3	Flat Oil Guard					CB-160S	1	C. B. Cover				
DA-70	1	Armature Shaft Nut					PX-55	1	#10-32x3/16 Bdg. Hd. Sc.				
GAB-188	1	Felt Washer					X-196	2	#10 Lock Washer				
GAG-116	1	Dowel Pin Screw - #10-32					8X-312	1	#10-32x1/4 Rd. Hd. Sc.				
(GAL-3260)	1	Comm. End Plate Assembly					X-196	2	#10 Lock Washer				
GAL-51	2	3rd Brush Plate Retaining Spring					8X-321	2	#10-32x5/16 Rd. Hd. Screw				
GAL-1167†	2	Brush - Main					X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
GAL-1168†	1	Brush - Third					8X-794	1	#10-32 Square Nut				
GAL-1260	1	C. E. Plate Part Assy.							1	2	3	4	5
GAL-2161	1	3rd Brush Plate Assy.					(Issued 7-1-41)						
8X-56	2	#8-32x7/16 Rd. Hd. Sc.											
X-195	1	#8 Lock Washer											
8X-305	1	#8-32x1/4 Rd. Hd. Screw											
GR-32	1	Felt Washer Retainer											
GR-35	1	Felt Washer											
X-195	2	#8 Lock Washer											
X-295	1	BALL BEARING - S.A.E. #203											
8X-305	2	#8-32x1/4 Rd. Hd. Screw											
X-489	1	1/4 Oiler - Press in Type											
<u>Armature Assembly &amp; Parts Used With</u>													
GAL-3269	1	ARMATURE ASSEMBLY											
GAR-171	1	Snap Ring											
X-263	1	#8 Woodruff Key											
X-1057	1	1/2-20 Castellated Nut											
		1	2	3	4	5							

† SERVICE BRUSH SET GEM-2012AS.

UNIT	APPLICATION
GBE-4204	Gray Marine

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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."

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# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBE-4205 GENERATOR PARTS LIST

GBE-4205

PRELIMINARY

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-225	1																			
(GBE-2282)	1						GAL-2258	1												
GAG-125	1						GAR-171	2												
GAL-29	2						GJ-104	1												
GAL-44	1						GJ-179	1												
GAL-1224	1						X-160	1												
GAR-211	1						X-205	1												
GBE-1005A	1						X-261	1												
GBE-1007A	1						Drive End Head Assembly & Parts Used With													
GAL-289	1						GAL-1063	1												
X-755	1						GAL-63	1												
X-1425	1						GG-6	2												
X-976	1						GG-164	1												
GBE-1008	1						GK-176	1												
X-976	1						8X-173	3												
GK-38	2						X-196	3												
MN-21	2						X-295	1												
8X-59	1						8X-316	3												
X-113	2						X-489	1												
X-195	1						Miscellaneous Parts													
X-203	2						CB-4013	1												
MW-20	2						CB-123	1												
X-199	2						CB-160S	1												
X-842	1						PX-55	1												
Comm. End Plate Assembly & Parts Used With																				
DA-39	1						X-196	2												
DJ-4	1						8X-312	1												
DJ-10	1						GAL-1024E	1												
GAA-69	1						X-196	2												
GAJ-79	1						8X-321	2												
(GAL-2213)	1						X-715	1												
GAL-51	2						8X-794	1												
GAL-1161	1																			
GAL-1167†	2																			
GAL-1168†	1																			
GAL-1213	1																			
8X-56	2																			
X-195	1																			
8X-305	1																			
GR-32	1																			
GR-35	1																			
X-195	2																			
X-295	1																			
8X-305	2																			
X-489	1																			
X-544	3																			
8X-870	3																			

(Issued 7-1-41)

† SERVICE BRUSH SET GEM-2012AS.

UNIT	APPLICATION
GBE-4205	Kermath

Printed in U. S. A.

File in  
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# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBE-4206 GENERATOR PARTS LIST

GBE-4206

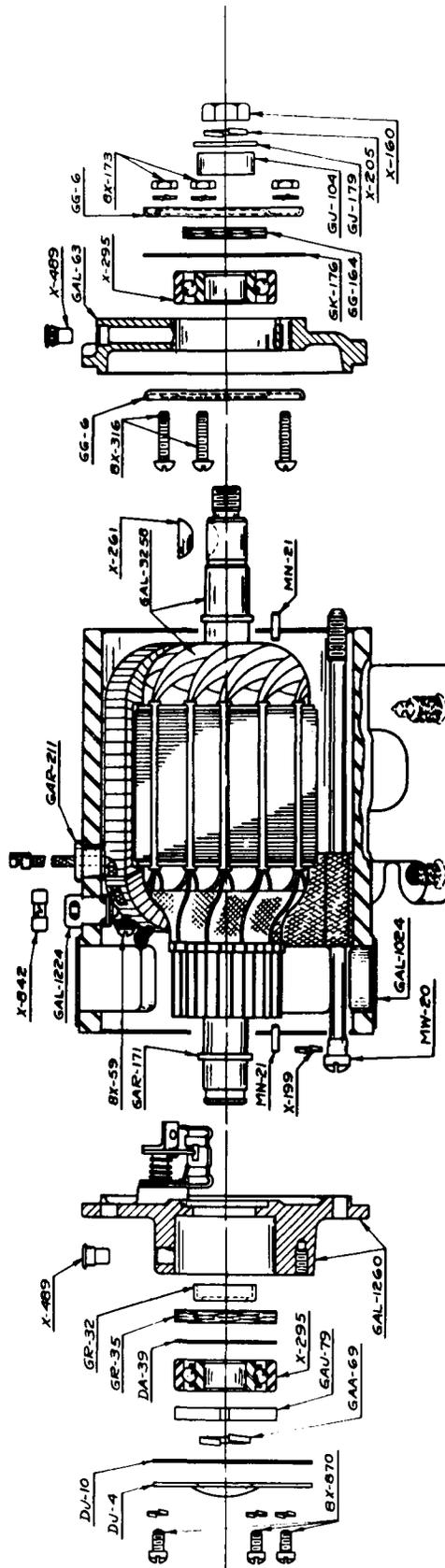
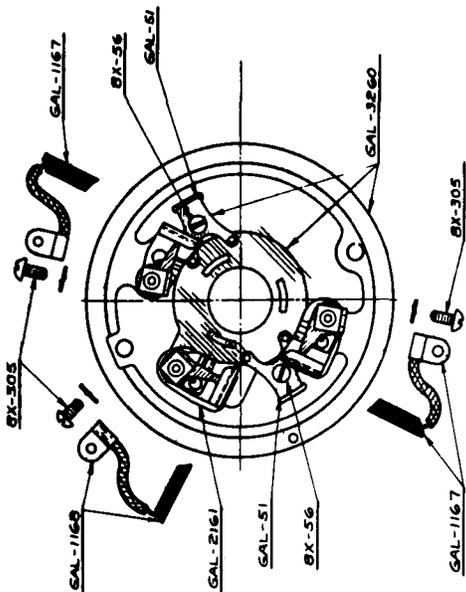
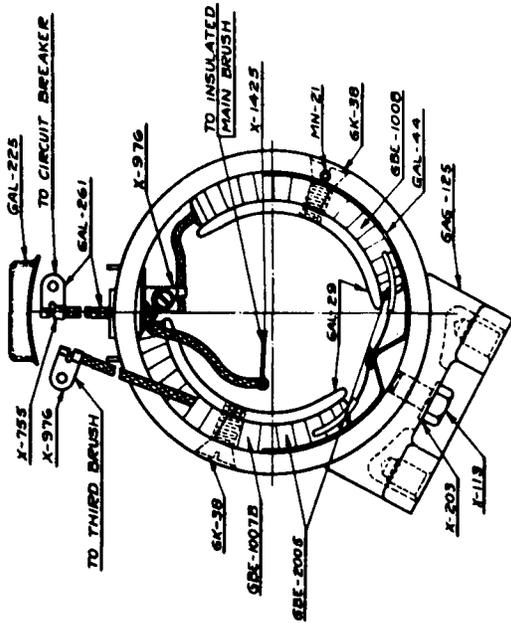
Frame & Field Assembly & Parts Used With						Armature Assembly & Parts Used With							
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
GAL-225	1	Fuse Cover					GAL-3258	1	Armature Assembly				
(GBE-3283)	1	Frame & Field Assy.					GAR-171	2	Snap Ring				
GAG-125	1	Mounting Bracket					GJ-104	1	Armature Shaft Spacer				
GAL-29	2	Pole Piece					GJ-179	1	7/16 Plain Washer				
GAL-44	1	Field Connection Ins.					X-160	1	7/16-20 Hex. Nut				
GAL-1224	1	Fuse Holder					X-205	1	7/16 Lock Washer				
GBE-2005	1	Field Coil Assy. - Comp.					X-261	1	#6 Woodruff Key				
GBE-1007B	1	Field Coil Assy. - Left					Drive End Head Assembly & Parts Used With						
GAL-261	1	C.B. Lead Assy.					GAL-1063	1	Drive End Head Assy.				
X-1425	1	Terminal					GAL-63	1	Drive End Head				
X-976	1	Terminal					GG-6	2	Felt Guard-with Oil Well				
GBE-1008	1	Field Coil Assy. Right					GG-164	1	Felt Washer				
X-976	1	Terminal					GK-176	1	Felt Washer Retainer				
GK-38	2	Pole Piece Screw					8X-173	3	#10-32 Hex. Nut				
GT-7	1	Insulating Bushing					X-196	3	#10 Lock Washer				
MN-21	2	Dowel Pin					X-295	1	Ball Brg. - S.A.E. #203				
8X-59	1	#8-32x3/16 Rd. Hd. Screw					8X-316	3	#10-32x3/4 Rd. Hd. Sc.				
X-113	2	5/16-24x5/8 Hex. Hd. Sc.					X-489	1	1/4 Oiler - Press in Type				
X-195	1	#8 Lock Washer					Miscellaneous Parts						
X-203	2	5/16 Lock Washer					CB-4013	1	Circuit Breaker Assy.				
X-755	1	Terminal					CB-123	1	Armature Spring				
MN-20	2	Frame Screw					CB-160	1	C.B. Cover				
X-199	2	1/4 Lock Washer					PX-55	1	#10-32x3/16 Bdg. Hd. Sc.				
X-842	1	Fuse - 5 Amp.					X-196	2	#10 Lock Washer				
Comm. End Plate Assembly & Parts Used With						8X-312	1	#10-32x1/4 Rd. Hd. Screw					
DA-39	1	Flat Oil Guard					GAL-1024	1	Head Band Assy.				
DJ-4	1	Comm. End Cap Cover					X-196	2	#10 Lock Washer				
DJ-10	1	End Cap Cover Gasket					8X-321	2	#10-32x5/16 Rd. Hd. Screw				
GAA-69	1	Lock Spring Ring					X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
GAJ-79	1	Bearing Spacer					8X-794	1	#10-32 Square Nut				
GAL-1167	2	Brush - Main							1	2	3	4	5
GAL-1168	1	Brush - Third					(Issued 1-24-36)						
(GAL-3260)	1	Comm. End Plate Assy.											
GAL-51	2	3rd Brush Plate Retain'g Spring											
GAL-1260	1	Comm. End Plate Part Assy.											
GAL-2161	1	3rd Brush Plate Assy.											
8X-56	2	#8-32x7/16 Rd. Hd. Screw											
GR-32	1	Felt Washer Retainer											
GR-35	1	Felt Washer											
X-195	3	#8 Lock Washer											
X-295	1	Ball.Brg. - S.A.E. #203											
8X-305	3	#8-32x1/4 Rd. Hd. Screw											
X-489	1	1/4 Oiler - Press in Type											
X-544	3	#10 Lock Washer											
8X-870	3	#10-32x5/16 Fill. Hd. Screw											
		1	2	3	4	5							

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# GBE-4206 GENERATOR ILLUSTRATION



# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBE-4207 GENERATOR PARTS LIST

GBE-4207

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-225	1	Fuse Cover					GAL-325B	1	Armature Assembly				
(GBE-3329)	1	Frame & Field Assembly					GAR-171	2	Snap Ring				
GAL-29	2	Pole Piece					GJ-104	1	Armature Shaft Spacer				
GAL-44	1	Field Connection Ins.					GJ-179	1	7/16 Plain Washer				
GAL-1224	1	Fuse Holder					X-160	1	7/16-20 Hex. Nut				
GAR-211	1	Insulating Bushing					X-205	1	7/16 Lock Washer				
GBE-2005	1	Field Coil Assy. - Comp.					X-261	1	#6 Woodruff Key				
GBE-1007B	1	Field Coil Assy. - Left					Drive End Head Assembly & Parts Used With						
GAL-294	1	C.B. Lead Assy.					GAL-1063	1	Drive End Head Assembly				
X-755	1	Terminal					GAL-63	1	Drive End Head				
X-1425	1	Terminal					GG-6	2	Felt Guard - With Oil Well				
X-976	1	Terminal					GG-164	1	Felt Washer				
GBE-1008	1	Field Coil Assy. - Right					GK-176	1	Felt Washer Retainer				
X-976	1	Terminal					8X-173	3	#10-32 Hex. Nut				
GK-38	2	Pole Piece Screw					X-196	3	#10 Lock Washer				
MN-21	2	Dowel Pin					X-295	1	Ball Brg. - S.A.E. #203				
8X-59	1	#8-32x3/16 Rd. Hd. Screw					8X-316	3	#10-32x3/4 Rd. Hd. Screw				
X-195	1	#8 Lock Washer					X-489	1	1/4 Oiler - Press in Type				
MW-20	2	Frame Screw					Miscellaneous Parts						
X-199	2	1/4 Lock Washer					CB-4013	1	Circuit Breaker Assy.				
X-842	1	Fuse - 5 Ampere					CB-123	1	Armature Spring				
Comm. End Plate Assembly & Parts Used With						CB-160	1	C.B. Cover					
DA-39	1	Flat Oil Guard					PX-55	1	#10-32x3/16 Bdg. Hd. Sc.				
DJ-4	1	Comm. End Cap Cover					X-196	2	#10 Lock Washer				
DJ-10	1	End Cap Cover Gasket					8X-312	1	#10-32x1/4 Rd. Hd. Screw				
GAA-69	1	Lock Spring Ring					GAL-1024E	1	Head Band Assembly				
GAJ-79	1	Bearing Spacer					X-196	2	#10 Lock Washer				
(GAL-3260)	1	Comm. End Plate Assembly					8X-321	2	#10-32x5/16 Rd. Hd. Screw				
GAL-51	2	3rd Brush Plate Retain'g Spring					X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
GAL-1167†	2	Brush - Main					8X-794	1	#10-32 Square Nut				
GAL-1159†	1	Brush - Third					1	2	3	4	5		
GAL-1260	1	Comm. End Plate Part Assy.					(Issued 6-18-37)						
GAL-2181	1	3rd Brush Plate Assy.											
8X-56	2	#8-32x7/16 Rd. Hd. Screw											
X-195	1	#8 Lock Washer											
8X-305	1	#8-32x1/4 Rd. Hd. Screw											
GR-32	1	Felt Washer Retainer											
GR-35	1	Felt Washer											
X-195	2	#8 Lock Washer											
X-295	1	Ball Brg. - S.A.E. #203											
8X-305	2	#8-32x1/4 Rd. Hd. Screw											
X-489	1	1/4 Oiler - Press in Type											
X-544	1	#10 Lock Washer											
8X-870	3	#10-32x5/16 Fill. Hd. Screw											
		1	2	3	4	5							

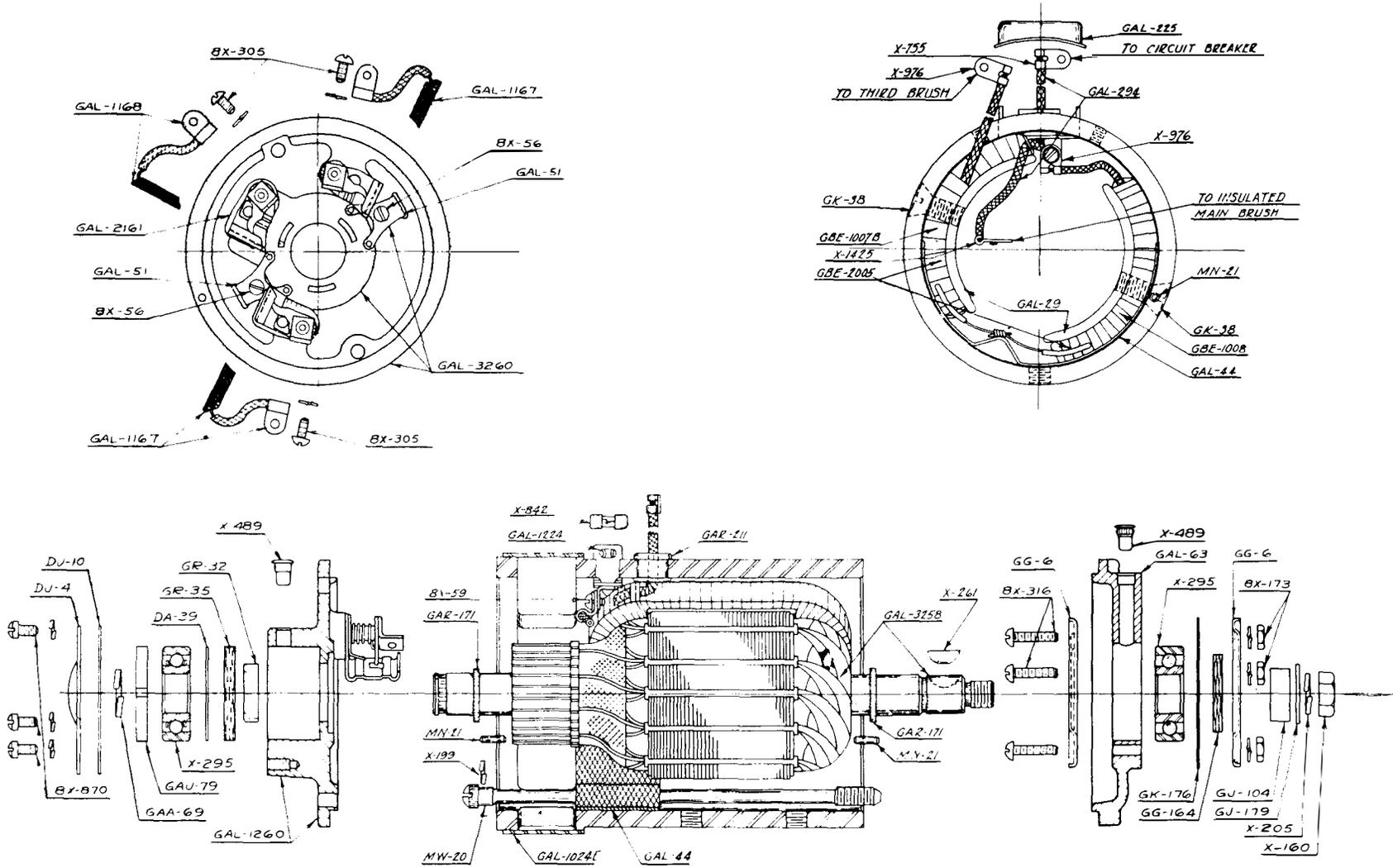
† Service Brush Set GAL-2167.

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GBE-4207 GENERATOR ILLUSTRATION



# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBE-4208 GENERATOR PARTS LIST

GBE-4208

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GAL-225	1	Fuse Cover				
(GBE-2259A)	1	Frame & Field Assy.				
GAL-29	2	Pole Piece				
GAL-44	1	Field Connection Ins.				
GAL-1224	1	Fuse Holder				
GAR-211	1	Insulating Bushing				
GBE-1005A	1	Field Coil Assy.-Comp.				
GBE-1007A	1	Field Coil Assy.-Left				
GAL-289	1	C.B. Lead Assy.				
X-755	1	Terminal				
X-1425	1	Terminal				
X-976	1	Terminal				
GBE-1008	1	Field Coil Assy.-Right				
X-976	1	Terminal				
GK-38	2	Pole Piece Screw				
MN-21	2	Dowel Pin				
8X-59	1	#8-32x3/16 Rd. Hd. Sc.				
X-195	1	#8 Lock Washer				
MW-20	2	Frame Screw				
X-199	2	1/4 Lock Washer				
X-842	1	Fuse - 5 Amp.				

Comm. End Plate Assembly & Parts Used With

DA-39	1	Flat Oil Guard				
DJ-4	1	Comm. End Cap Cover				
DJ-10	1	End Cap Cover Gasket				
GAA-69	1	Lock Spring Ring				
GAJ-79	1	Bearing Spacer				
(GAL-2213)	1	Comm. End Plate Assy.				
GAL-51	2	3rd Brush Plate Retaining Spring				
GAL-1161	1	3rd Brush Plate Assy.				
GAL-1167‡	2	Brush - Main				
GAL-1168‡	1	Brush - Third				
GAL-1213	1	Comm. End Plate Part Assy.				
8X-56	2	#8-32x7/16 Rd. Hd. Sc.				
X-195	1	#8 Lock Washer				
8X-305	1	#8-32x1/4 Rd. Hd. Sc.				
GR-32	1	Felt Washer Retainer				
GR-35	1	Felt Washer				
X-195	2	#8 Lock Washer				
X-295	1	Ball Bearing - S.A.E. #203				
8X-305	2	#8-32x1/4 Rd. Hd. Sc.				
X-489	1	1/4 Oiler - Press in Type				
X-544	3	#10 Lock Washer				
8X-870	3	#10-32x5/16 Fill. Hd. Screw				
		1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GAL-2258	1	Armature Assy.				
GAR-171	2	Snap Ring				
GJ-104	1	Armature Shaft Spacer				
GJ-179	1	7/16 Plain Washer				
X-160	1	7/16-20 Hex. Nut				
X-205	1	7/16 Lock Washer				
X-261	1	#6 Woodruff Key				

Drive End Head Assembly & Parts Used With

GAL-1063	1	Drive End Head Assy.				
GAL-63	1	Drive End Head				
GG-6	2	Felt Guard - with Oil Well				
GG-164	1	Felt Washer				
GK-176	1	Felt Washer Retainer				
6X-173	3	#10-32 Hex. Nut				
X-196	3	#10 Lock Washer				
X-295	1	Ball Brg.-S.A.E. #203				
6X-316	3	#10-32x3/4 Rd. Hd. Sc.				
X-489	1	1/4 Oiler - Press in Type				

Miscellaneous Parts

CB-4013	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. Sc.				
GAL-1024E	1	Head Band Assy.				
X-196	2	#10 Lock Washer				
8X-321	2	#10-32x5/16 Rd. Hd. Sc.				
X-715	1	#10-32x1 1/4 Rd. Hd. Sc.				
8X-794	1	#10-32 Square Nut				
		1	2	3	4	5

(Issued 12-6-37)

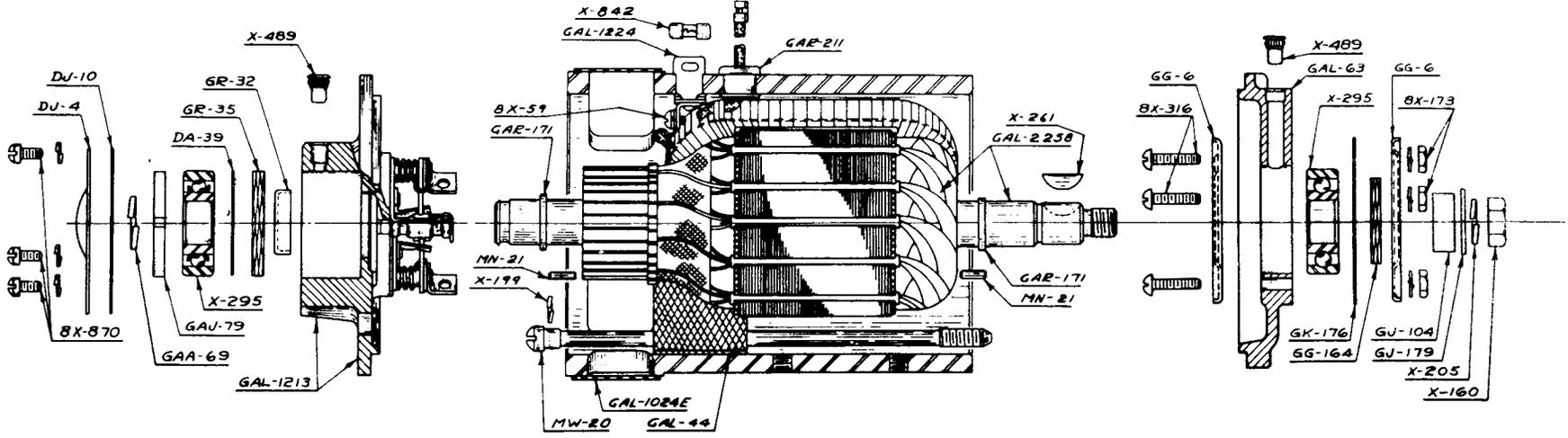
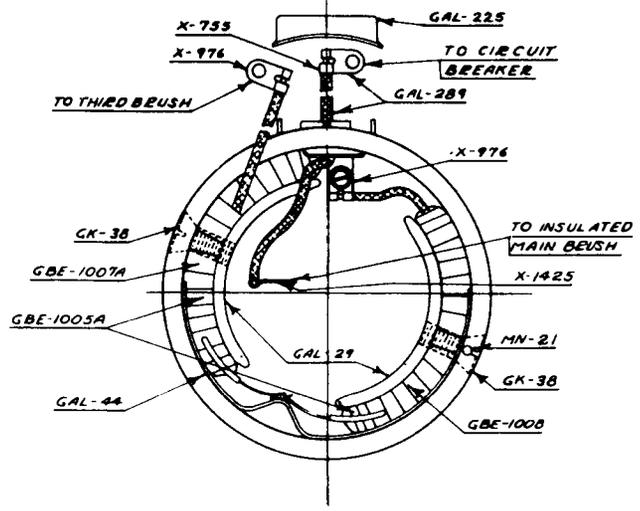
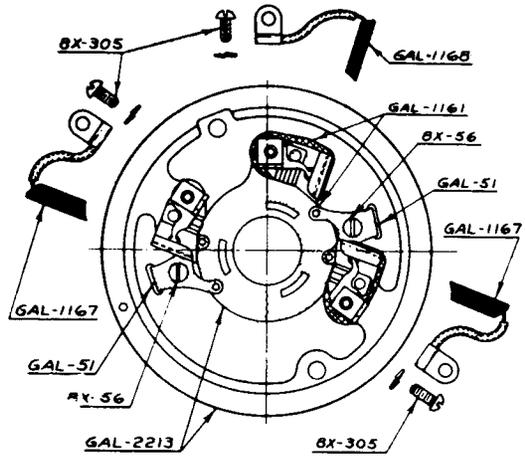
‡ Service Brush Set GAL-2167.

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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."

GBE-4208 GENERATOR ILLUSTRATION



# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBE-4301 GENERATOR PARTS LIST

GBE-4301

Frame & Field Assy. & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
GAL-225	1	Fuse Cover					
(GBE-2247)	1	Frame & Field Assembly					
GAL-29	2	Pole Piece					
GAL-44	1	Field Connection Ins.					
GAL-1224	1	Fuse Holder					
GAR-211	1	Insulating Bushing					
GBE-1005	1	FIELD COIL ASSY.- Comp.					
GBE-1007	1	Field Coil Assy.-Left					
GAL-292	1	C. B. Lead Assy.					
X-755	1	Terminal					
X-947	1	Terminal					
X-946	1	Terminal					
GBE-1008	1	Field Coil Assy.-Right					
X-976	1	Terminal					
GK-38	2	Pole Piece Screw					
MN-21	2	Dowel Pin					
8X-59	1	#8-32x3/16 Rd. Hd. Screw					
X-195	1	#8 Lock Washer					
MW-20	2	Frame Screw					
X-199	2	1/4 Lock Washer					
X-842	1	Fuse - 5 Amp.					

Comm. End Plate Assy. & Parts Used With

DA-39	1	Flat Oil Guard					
DJ-4	1	Comm. End Cap Cover					
DJ-10	1	End Cap Cover Gasket					
GAA-69	1	Lock Spring Ring					
GAJ-79	1	Bearing Spacer					
(GAL-2206)	1	Comm. End Plate Assy.					
GAL-12†	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 Retaining Spring					
GAL-242	2	Brush Holder					
GAL-1206	1	C.E. Plate Part Assy.					
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 Assy.					
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					
8X-47	2	#8-32x8/16 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					
GR-32	1	Felt Washer Retainer					
GR-35	1	Felt Washer					
X-295	1	BALL BEARING - S.A.E. #203					
X-489	1	1/4 Oiler - Press in Type					
X-544	3	#10 Lock Washer					
8X-870	3	#10-32x5/16 Fill. Hd. Screw					
			1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
GAL-2048	1	ARMATURE ASSEMBLY					
GAR-171	1	Snap Ring					
X-156	1	1/2-20 Castellated Nut					
X-263	1	#8 Woodruff Key					
X-358	1	1/2 Plain Steel Washer					
X-404	1	3/32x1 Cotter Pin					

Drive End Head Assy. & Parts Used With

GAL-1149	1	Drive End Head Assembly					
GK-100	1	Pin					
GT-94	1	BRONZE BEARING					
GT-98	1	Baffle Plate					
X-233	2	#13x1/4 Escutcheon Pin					
GT-97	1	Felt Wick					
X-1040	1	#13x1/2 Escutcheon Pin					

Miscellaneous Parts

CB-4013	1	CIRCUIT BREAKER ASSEMBLY					
CB-123	1	Armature Spring					
CB-160S	1	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.					
GAL-1024E	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					
X-794	1	#10-32 Square Nut					
			1	2	3	4	5

(Issued 7-31-40)

† SERVICE BRUSH SET GAL-2012.

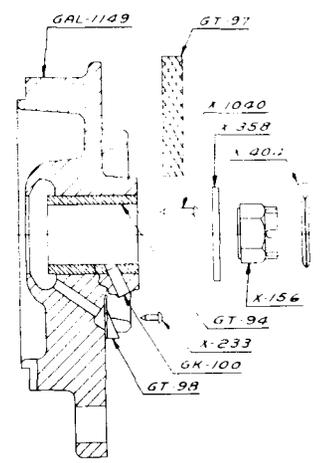
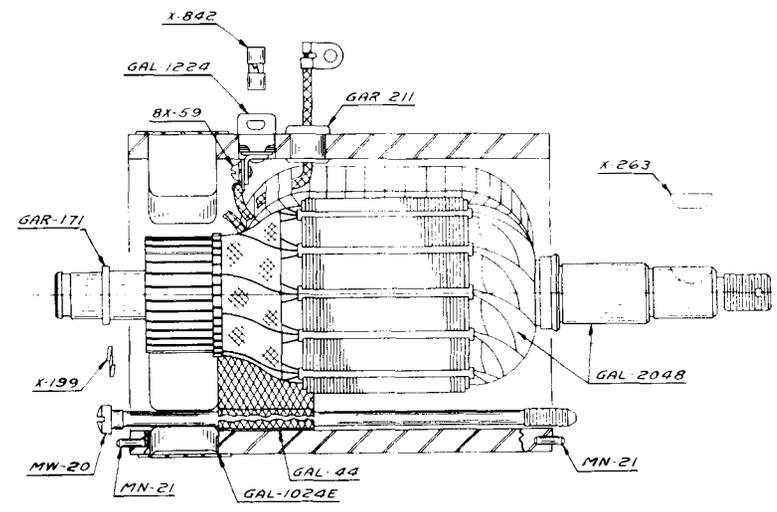
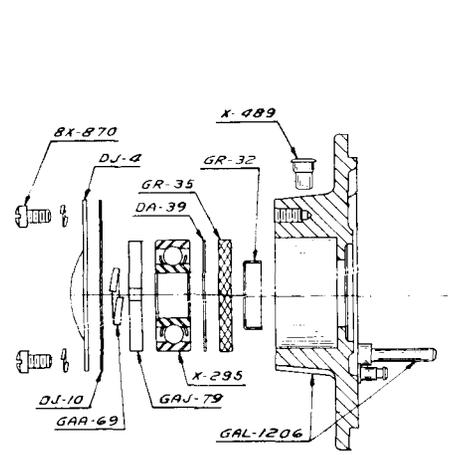
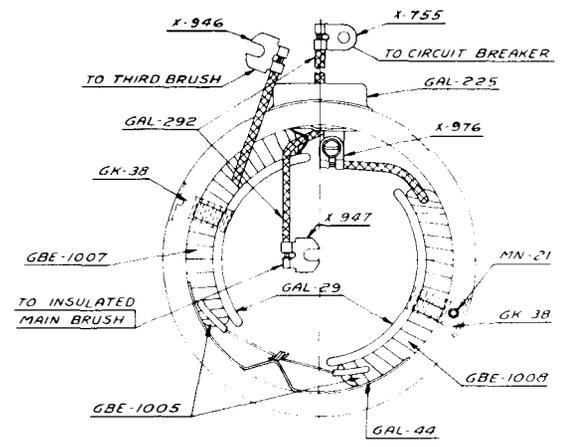
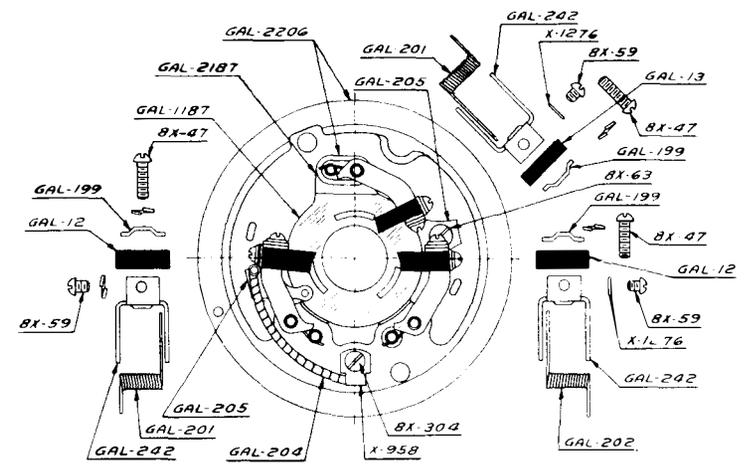
UNIT	APPLICATION
GBE-4301	Hercules

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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."

GBE-4301 GENERATOR ILLUSTRATION



# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBG-4601 GENERATOR PARTS LIST

GBG-4601

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
(GBG-2079)	1	Frame & Field Assy.					X-1270	1	#10 Skpf. Washer				
GBF-55	1	Insulating Washer					8X-118	6	#10-32x3/4 Fill. Hd. Screw				
GBG-22	1	Terminal Post - 10-32					8X-119	4	#10-32x1/2 Fill. Hd. Screw				
GBG-23	1	Terminal Post - 5/16-24					X-195	3	#8 Lock Washer				
GBG-27	1	Control Lead Assy.					X-196	4	#10 Lock Washer				
MAB-14A	1	Terminal					8X-305	3	#8-32x1/4 Rd. Hd. Screw				
X-1425	2	Terminal					X-394	1	Screw-in - Sleeve Oiler				
GBG-28	1	Terminal Post Insulation					X-440	1	Ball Bearing - Shielded				
GBG-29	4	Pole Piece					X-544	6	#10 Lock Washer				
GBG-30	1	Field Connection Ins.					<u>Armature Assembly &amp; Parts Used With</u>						
GBG-38	8	Pole Piece Screw					DG-73	1	Armature Shaft Sleeve				
GBG-62	1	Terminal Post Insulation					GBG-49	2	Armature Shaft Spacer				
GBG-1005	1	Field Coil Assy. - Comp.					GBG-77	1	Plain Washer				
GBG-1007	1	Field Coil Assy. - U.R.					GBG-1072	1	Oil Throwing Assembly				
GBG-26	1	Terminal					GBG-2076F	1	Armature Assembly				
GBG-1008	1	Field Coil - L.L.					GBM-21	1	Armature Shaft Nut				
GBG-1009	1	Field Coil - L.R.					SP-237	1	Ventilating Fan				
GBG-1010	1	Field Coil Assy. - U.L.					X-261	1	#6 Woodruff Key				
X-1425	1	Terminal					X-864	1	.669 Lock Washer				
GCY-25	1	Insulating Bushing					<u>Drive End Head Assembly &amp; Parts Used With</u>						
GCY-26	1	Insulating Bushing					GBG-1088	1	Drive End Head Assy.				
MU-36	1	Insulating Washer					GBG-50	1	Gasket				
MU-37	1	5/16 Plain Washer					GBG-88	1	Drive End Head				
8X-183A	1	#10 Plain Washer					GBG-1056	1	Bearing Retainer Assy.				
X-196	1	#10 Lock Washer					GBG-56	1	Bearing Retainer				
X-1014	1	5/16 Lock Washer					GBG-57	1	Felt Washer Retainer				
8X-1376	1	5/16-24 Hex. Nut					GBG-58	1	Felt Washer				
8X-1377	1	#10-32 Hex. Nut					8X-119	4	#10-32x1/2 Fill. Hd. Screw				
X-196	2	#10 Lock Washer					X-196	4	#10 Lock Washer				
8X-321	1	#10-32x5/16 Rd. Hd. Screw					X-440	1	Ball Brg. - Shielded				
X-1014	1	5/16 Lock Washer					X-199	5	1/4 Lock Washer				
8X-1376	1	5/16-24 Hex. Nut					X-394	1	Screw-in - Sleeve Oiler				
8X-1377	1	#10-32 Hex. Nut					8X-456	5	1/4-28x1 Hex. Hd. Screw				
<u>Comm. End Plate Assembly &amp; Parts Used With</u>					<u>Miscellaneous Parts</u>								
GBG-46	1	Spring Washer					GBG-24A	1	Head Band				
GBG-47	1	Felt Washer					X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
GBG-48	2	Felt Washer Retainer					8X-794	1	#10-32 Square Nut				
GBG-50	1	Gasket							1	2	3	4	5
GBG-1056	1	Bearing Retainer Assy.					(Issued 7-13-37)						
GBG-56	1	Bearing Retainer											
GBG-57	1	Felt Washer Retainer											
GBG-58	1	Felt Washer											
(GBG-2075)	1	Comm. End Plate Assy.											
DA-38	2	Spring Washer											
DE-85	1	Steel Washer											
GBG-41	2	Brush Holder Plate Screw											
GBG-51	2	Plain Washer											
GBG-75	1	Comm. End Plate											
GBG-1012†	4	Brush - Main											
GBG-1031	1	Brush Holder Plate Assy.											
GBG-18R	4	Brush Holder											
GBG-36	4	Brush Spring											
GBG-40	4	Brush Holder Terminal											
GBG-85	4	Brush Holder Stud											
GBG-1037	4	Brush Arm											
8X-173	4	#10-32 Hex. Nut											
X-196	4	#10 Lock Washer											
GK-151	1	Plain Steel Washer											
X-195	4	#8 Lock Washer											
8X-208	1	#10-32x9/16 Hex. Hd. Sc.											
8X-305	4	#8-32x1/4 Rd. Hd. Screw											
8X-361	2	1/4 Plain Washer											
		1	2	3	4	5							

NOTE:- VRA-4102A Current-Voltage Regulator is used with but not a part of this generator.

† Service Brush Set GBG-2012S.

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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."



# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBG-4602 GENERATOR PARTS LIST

GBG-4602

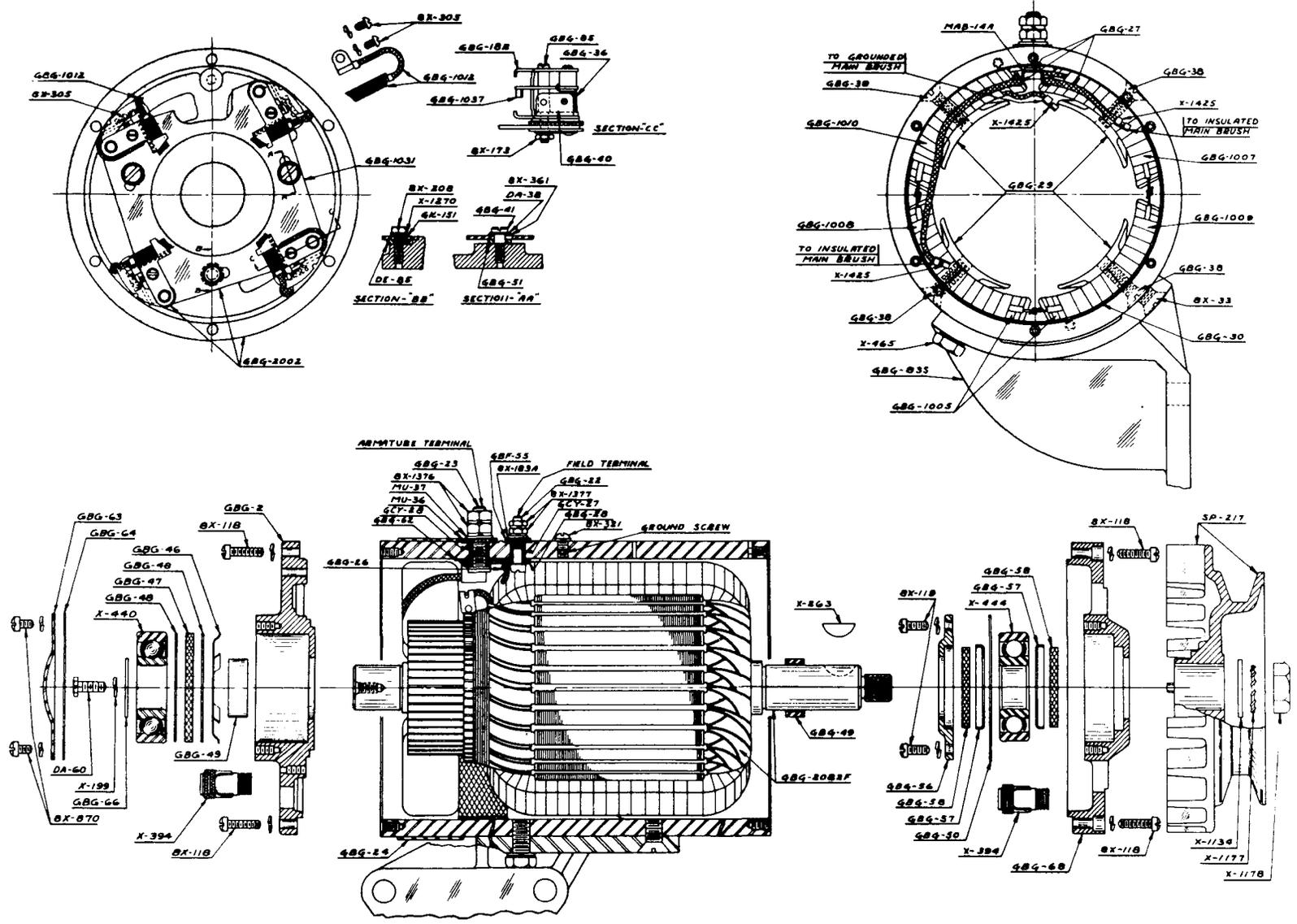
Frame & Field Assembly & Parts Used With					Comm. End Plate Assembly (Continued)								
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
GBG-83S	1					Mounting Bracket	X-195	4					#8 Lock Washer
(GBG-2084)	1					Frame & Field Assy.	8X-208	1					#10-32x9/16 Hex. Hd. Sc.
GBF-55	1					Insulating Washer	8X-305	4					#8-32x1/4 Rd. Hd. Screw
GBG-22	1					Terminal Post	8X-361	2					1/4 Plain Washer
GBG-23	1					Terminal Post - 5/16-24	X-1270	1					#10 Skpf. Washer
GBG-27	1					Control Lead Assy.	8X-118	6					#10-32x3/4 Fill. Hd. Screw
MAB-14A	1					Terminal	X-195	3					#8 Lock Washer
X-1425	2					Terminal	X-199	1					1/4 Lock Washer
GBG-28	1					Terminal Post Ins.	8X-305	3					#8-32x1/4 Rd. Hd. Screw
GBG-29	4					Pole Piece	X-394	1					Screw in - Sleeve Oiler
GBG-30	1					Field Connection Ins.	X-440	1					Ball Brg. - Shielded
GBG-38	8					Pole Piece Screw	X-544	10					#10 Lock Washer
GBG-62	1					Terminal Post Ins.	8X-870	4					#10-32x5/16 Fill. Hd. Sc.
GBG-1005	1					Field Coil Assy. - Comp.	<u>Armature Assembly &amp; Parts Used With</u>						
GBG-1007	1					Field Coil Assy.-U.R.	GBG-49	2					Armature Shaft Spacer
GBG-26	1					Terminal	GBG-2082F	1					Armature Assembly
GBG-1008	1					Field Coil - L.L.	SP-217	1					Drive Pulley
GBG-1009	1					Field Coil - L.R.	X-263	1					#8 Woodruff Key
GBG-1010	1					Field Coil Assy.-U.L.	X-1134	1					5/8 Plain Washer
X-1425	1					Terminal	X-1177	1					5/8 Skpf. Washer
GCY-27	1					Insulating Bushing	X-1178	1					5/8-18 Hex. Nut
GCY-28	1					Insulating Bushing	<u>Drive End Head Assembly &amp; Parts Used With</u>						
MU-36	1					Insulating Washer	GBG-1068	1					Drive End Head Assy.
MU-37	1					5/16 Plain Washer	GBG-50	1					Gasket
8X-183A	1					#10 Plain Washer	GBG-57	1					Felt Washer Retainer
X-196	1					#10 Lock Washer	GBG-58	1					Felt Washer
X-1014	1					5/16 Lock Washer	GBG-68	1					Drive End Head
8X-1376	1					5/16-24 Hex. Nut	GBG-1056	1					Bearing Retainer Assy.
8X-1377	1					#10-32 Hex. Nut	GBG-56	1					Bearing Retainer
8X-33	1					3/8-24x11/16 Flat Hd. Sc.	GBG-57	1					Felt Washer Retainer
X-196	2					#10 Lock Washer	GBG-58	1					Felt Washer
X-201	3					3/8 Lock Washer	8X-119	4					#10-32x1/2 Fill. Hd. Sc.
8X-321	1					#10-32x5/16 Rd. Hd. Screw	X-196	4					#10 Lock Washer
X-465	3					3/8-24x3/4 Hex. Hd. Screw	X-444	1					Ball Brg. - S.A.E. #305
X-1014	1					5/16 Lock Washer	8X-118	6					#10-32x3/4 Fill. Hd. Screw
8X-1376	1					5/16-24 Hex. Nut	X-394	1					Screw in - Sleeve Oiler
8X-1377	1					#10-32 Hex. Nut	X-544	6					#10 Lock Washer
<u>Comm. End Plate Assembly &amp; Parts Used With</u>					<u>Miscellaneous Parts</u>								
DA-60	1					Bearing Retaining Screw	GBG-24	1					Head Band
GBG-46	1					Spring Washer	X-715	1					#10-32x1 1/4 Rd. Hd. Screw
GBG-47	1					Felt Washer	8X-794	1					#10-32 Square Nut
GBG-48	2					Felt Washer Retainer							1 2 3 4 5
GBG-63	1					Comm. End Cap Cover	(Issued 8/12/38)						
GBG-64	1					End Cap Cover Gasket							
GBG-66	1					Bearing Retaining Washer							
(GBG-2002)	1					Comm. End Plate Assy.							
DA-38	2					Spring Washer							
DE-85	1					Steel Washer							
GBG-2	1					Comm. End Plate							
GBG-41	2					Brush Holder Plate Screw							
GBG-51	2					Plain Washer							
GBG-1012‡	4					Brush - Main							
GBG-1031	1					Brush Holder Plate Assy.							
GBG-18R	4					Brush Holder							
GBG-36	4					Brush Spring							
GBG-40	4					Brush Holder Terminal							
GBG-85	4					Brush Holder Stud							
GBG-1037	4					Brush Arm							
8X-173	4					#10-32 Hex. Nut							
X-196	4					#10 Lock Washer							
GK-151	1					Plain Steel Washer							
		1	2	3	4	5							

NOTE:- VRA-4102A Current-Voltage Regulator is used with but is not a part of this generator.

‡ Service Brush Set GBG-2012S.

"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."

GBG-4602 GENERATOR ILLUSTRATION



# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBG-4606 GENERATOR PARTS LIST

GBG-4606

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
(GBG-2095)	1	Frame & Field assy.					
GBF-55	1	Insulating Washer					
GBG-22	1	Terminal Post					
GBG-23	1	Terminal Post					
GBG-27	1	Control Lead Assy.					
MAB-14A	1	Terminal					
X-1425	2	Terminal					
GBG-28	1	Term Post Insulation					
GBG-29	4	Pole Piece					
GBG-30	1	Field Connection Ins.					
GBG-38	8	Pole Piece Screw					
GBG-62	1	Term. Post Insulation					
GBG-94	1	Dowel					
GBG-1005	1	Field Coil Assy.-Comp.					
GBG-1007	1	Field Coil Assy.-U.R.					
GBG-206	1	Terminal					
GBG-1008	1	Field Coil - L. L.					
GBG-1009	1	Field Coil - L. R.					
GBG-1010	1	Field Coil Assy.-U.L.					
X-1425	1	Terminal					
GCY-27	1	Insulating Bushing					
GCY-28	1	Insulating Bushing					
MU-36	1	Insulating Washer					
MU-37	1	5/16 Plain Washer					
8X-183A	1	#10 Plain Washer					
X-196	1	#10 Lock Washer					
X-1014	1	5/16 Lock Washer					
8X-1376	1	5/16-24 Hex. Nut					
8X-1377	1	#10-32 Hex. Nut					
X-196	2	#10 Lock Washer					
X-1014	1	5/16 Lock Washer					
8X-1376	1	5/16-24 Hex. Nut					
8X-1377	1	#10-32 Hex. Nut					

Comm. End Plate Assembly & Parts Used With

DA-60	1	Bearing Retaining Screw					
GBG-46	1	Spring Washer					
GBG-47	1	Felt Washer					
GBG-48	2	Felt Washer Retainer					
GBG-63	1	Comm. End Cap Cover					
GBG-64	1	End Cap Cover Gasket					
GBG-66	1	Bearing Retaining Washer					
(GBG-2002)	1	Comm. End Plate Assy.					
DA-38	2	Spring Washer					
DE-85	1	Steel Washer					
GBG-2	1	Comm. End Plate					
GBG-41	2	Brush Holder Plate Screw					
GBG-51	2	Plain Washer					
GBG-1012†	4	Brush - Main					
GBG-1031	1	Brush Holder Plate Assy.					
GBG-18R	4	Brush Holder					
GBG-36	4	Brush Spring					
GBG-40	4	Brush Holder Term.					
GBG-85	4	Brush Holder Stud					
GBG-1037	4	Brush Arm					
8X-173	4	#10-32 Hex. Nut					
X-196	4	#10 Lock Washer					
GK-151	1	Plain Steel Washer					
X-195	4	#8 Lock Washer					
8X-208	1	#10-32x9/16 Hex. Hd. Screw					
			1	2	3	4	5

Comm. End Plate Assembly (Continued)

Part No.	No. Used	Name of Part					
			1	2	3	4	5
8X-305	4	#8-32x1/4 Rd. Hd. Screw					
8X-361	2	1/4 Plain Washer					
X-1270	1	#10 Skpf. Washer					
8X-118	6	#10-32x3/4 Fill. Hd. Screw					
X-195	3	#8 Lock Washer					
X-196	10	#10 Lock Washer					
X-199	1	1/4 Lock Washer					
8X-305	3	#8-32x1/4 Rd. Hd. Screw					
X-394	1	Screw in - Sleeve Oiler					
X-440	1	Ball Bearing - Shielded					
8X-870	4	#10-32x5/16 Fill. Hd. Screw					

Armature Assembly & Parts Used With

GBG-49	2	Armature Shaft Spacer					
GBG-55	1	Armature Shaft Nut					
GBG-2091F	1	Armature Assembly					
SP-227	1	Ventilating Fan					
X-261	1	#6 Woodruff Key					
X-1018	1	5/8 Lock Washer					
X-1178	1	5/8-18 Hex. Nut					

Drive End Head Assembly & Parts Used With

GBG-1068	1	Drive End Head Assy.					
GBG-50	1	Gasket					
GBG-57	1	Felt Washer Retainer					
GBG-58	1	Felt Washer					
GBG-68	1	Drive End Head					
GBG-1056	1	Bearing Retainer Assy.					
GBG-56	1	Bearing Retainer					
GBG-57	1	Felt Washer Retainer					
GBG-58	1	Felt Washer					
8X-119	4	#10-32x1/2 Fill. Hd. Screw					
X-196	4	#10 Lock Washer					
X-444	1	Ball Brg. - SAE #305					
8X-118	6	#10-32x3/4 Fill. Hd. Screw					
X-394	1	Screw in - Sleeve Oiler					
X-544	6	#10 Lock Washer					

Miscellaneous Parts

GBG-24	1	Head Band					
8X-321	1	#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 4-25-41)

NOTE:- VRA-4102A Current-Voltage Regulator is used with but is not a part of this generator.

† Service Brush Set GBG-2012S.

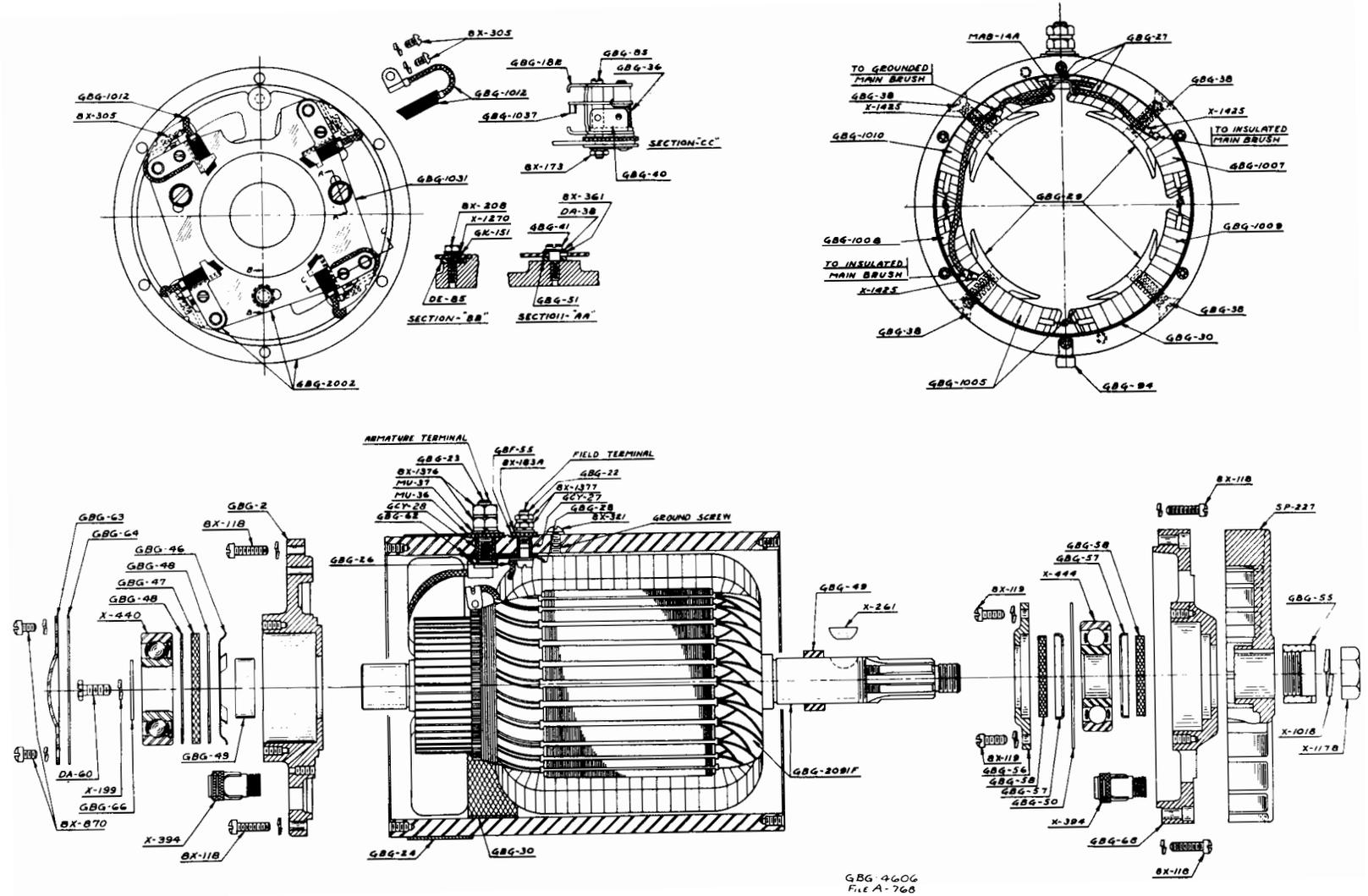
UNIT	APPLICATION
GBG-4606	Reo Truck

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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."

GBG-4606 GENERATOR ILLUSTRATION



GBG 4606  
File A-768

# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBG-4608,A GENERATOR PARTS LIST

GBG-4608,A

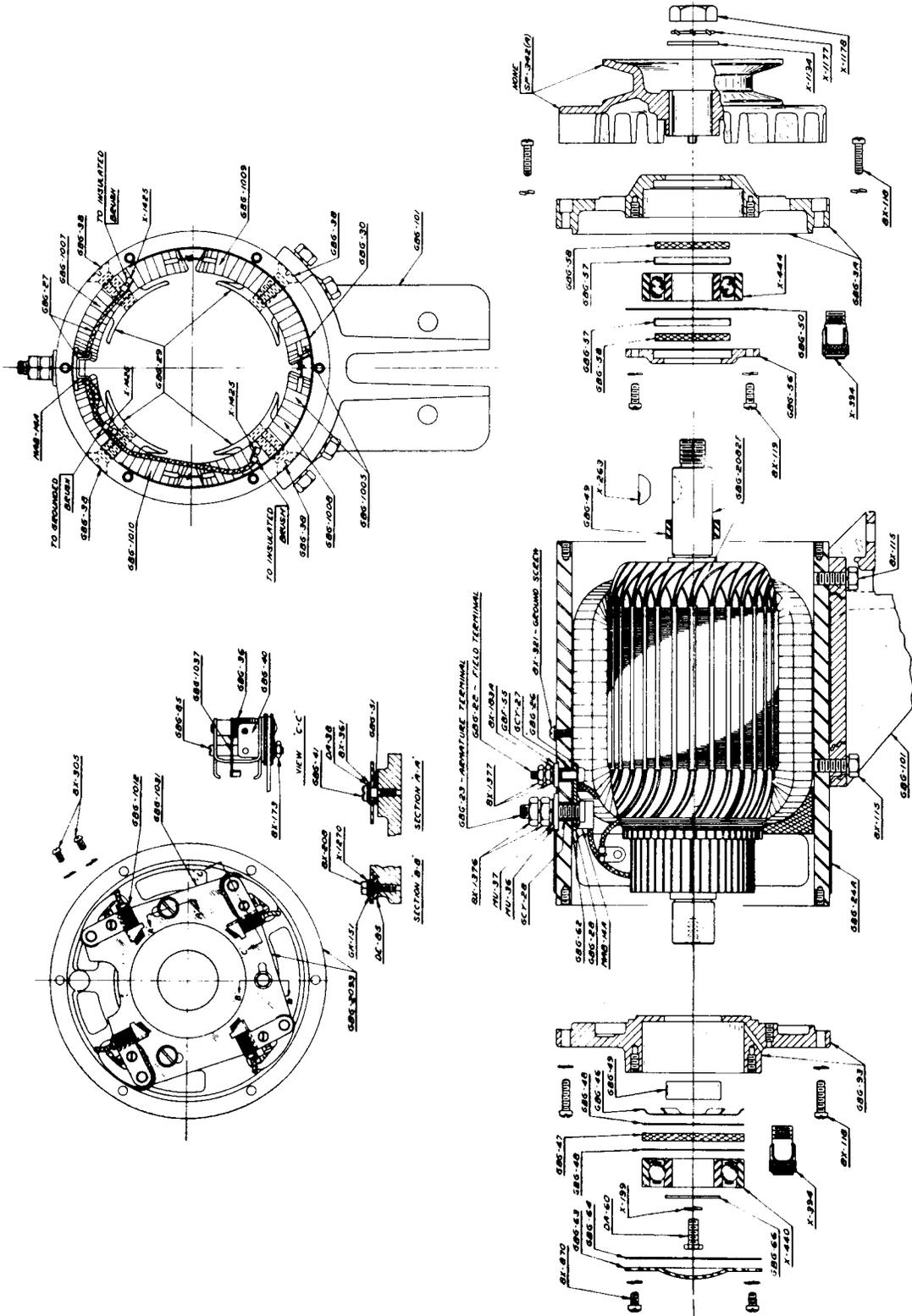
Frame & Field Assembly & Parts Used With					Comm. End Plate Assembly (Continued)												
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part								
		1	2	3	4	5			1	2	3	4	5				
GBG-101	1	Mounting Bracket					8X-361	2	1/4 Plain Washer								
(GBG-2099)	1	Frame & Field Assy.					X-1270	1	#10 Skpf. Washer								
GBF-55	1	Insulating Washer					8X-118	6	#10-32x3/4 Fill. Hd. Screw								
GBG-22	1	Terminal Post					X-195	3	#8 Lock Washer								
GBG-23	1	Terminal Post - 5/16-24					X-196	10	#10 Lock Washer								
GBG-27	1	Control Lead Assy.					X-199	1	1/4 Lock Washer								
MAB-14A	1	Terminal					8X-305	3	#8-32x1/4 Rd. Hd. Screw								
X-1425	2	Terminal					X-394	1	Screw In - Sleeve Oiler								
GBG-28	1	Terminal Post Insulation					X-440	1	BALL BEARING - Shielded								
GBG-29	4	Pole Piece					8X-870	4	#10-32x5/16 Fill. Hd. Screw								
GBG-30	1	Field Connection Ins.					<u>Armature Assembly &amp; Parts Used With</u>										
GBG-38	8	Pole Piece Screw					GBG-49	2	Armature Shaft Spacer								
GBG-62	1	Terminal Post Insulation					GBG-2082F	1	Armature Assembly								
GBG-1005	1	FIELD COIL ASSY.- COMP.					*	1	Drive Pulley								
GBG-1007	1	Field Coil Assy.-U.R.					X-263	1	#8 Woodruff Key								
GBG-26	1	Terminal					X-1134	1	5/8 Plain Washer								
GBG-1008	1	Field Coil - L.L.					X-1177	1	5/8 Skpf. Washer								
GBG-1009	1	Field Coil - L.R.					X-1178	1	5/8-18 Hex. Nut								
GBG-1010	1	Field Coil Assy.-U.L.					<u>Drive End Head Assembly &amp; Parts Used With</u>										
X-1425	1	Terminal					GBG-1003A	1	Drive End Head Assembly								
GCY-27	1	Insulating Bushing					GBG-3A	1	Drive End Head								
GCY-28	1	Insulating Bushing					GBG-50	1	Gasket								
MU-36	1	Insulating Washer					GBG-57	1	Felt Washer Retainer								
MU-37	1	5/16 Plain Washer					GBG-58	1	Felt Washer								
8X-183A	1	#10 Plain Washer					GBG-1056	1	Bearing Retainer Assy.								
X-196	1	#10 Lock Washer					GBG-56	1	Bearing Retainer								
X-1014	1	5/16 Lock Washer					GBG-57	1	Felt Washer Retainer								
8X-1376	1	5/16-24 Hex. Nut					GBG-58	1	Felt Washer								
8X-1377	1	#10-32 Hex. Nut					8X-119	4	#10-32x1/2 Fill. Hd. Sc.								
8X-115	4	5/16-24x3/4 Hex. Hd. Cap Sc.					X-196	4	#10 Lock Washer								
X-196	2	#10 Lock Washer					X-444	1	BALL BEARING - S.A.E. #305								
X-203	4	5/16 Lock Washer					8X-118	6	#10-32x3/4 Fill. Hd. Screw								
8X-321	1	#10-32x5/16 Rd. Hd. Screw					X-394	1	Screw In - Sleeve Oiler								
X-1014	1	5/16 Lock Washer					X-544	6	#10 Lock Washer								
8X-1376	1	5/16-24 Hex. Nut					<u>Miscellaneous Parts</u>										
8X-1377	1	#10-32 Hex. Nut					GBG-24A	1	Head Band								
<u>Comm. End Plate Assembly &amp; Parts Used With</u>					X-715	1	#10-32x1 1/4 Rd. Hd. Screw										
DA-60	1	Bearing Retaining Screw					8X-794	1	#10-32 Square Nut								
GBG-46	1	Spring Washer							1	2	3	4	5				
GBG-47	1	Felt Washer					(Issued 5-9-39)										
GBG-48	2	Felt Washer Retainer					Assembly No.	Drive Pulley									
GBG-63	1	Comm. End Cap Cover					GBG-4608	None									
GBG-64	1	End Cap Cover Gasket					GBG-4608A	SP-342									
GBG-66	1	Bearing Retaining Washer					NOTE:- VRA-4102A CURRENT-VOLTAGE REGULATOR is used with but is not a part of this generator.										
(GBG-2093)	1	Comm. End Plate Assy.					* See table following parts list for part number applying to assembly wanted.										
DA-38	2	Spring Washer					† Service BRUSH SET GBG-2012S.										
DE-85	1	Steel Washer					<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th style="text-align: center;">UNIT</th> <th style="text-align: center;">APPLICATION</th> </tr> <tr> <td style="text-align: center;">GBG-4608,A</td> <td style="text-align: center;">White</td> </tr> </table>							UNIT	APPLICATION	GBG-4608,A	White
UNIT	APPLICATION																
GBG-4608,A	White																
GBG-41	2	Brush Holder Plate Screw															
GBG-51	2	Plain Washer															
GBG-93	1	Comm. End Plate															
GBG-1012†	4	Brush - Main															
GBG-1031	1	Brush Holder Plate Assy.															
GBG-18R	4	Brush Holder															
GBG-36	4	Brush Spring															
GBG-40	4	Brush Holder Terminal															
GBG-85	4	Brush Holder Stud															
GBG-1037	4	Brush Arm															
8X-173	4	#10-32 Hex. Nut															
X-196	4	#10 Lock Washer															
GK-151	1	Plain Steel Washer															
X-195	4	#8 Lock Washer															
8X-208	1	#10-32x9/16 Hex. Hd. Sc.															
8X-305	4	#8-32x1/4 Rd. Hd. Screw															
	1	2	3	4	5												

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Equipment & Parts List Binder

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

# GBG-4608,A GENERATOR ILLUSTRATION



GBG-23 - ARMATURE TERMINAL  
 GBG-22 - FIELD TERMINAL  
 GT-1034  
 GT-1035  
 GT-1036  
 GT-1037  
 GT-1038  
 GT-1039  
 GT-1040  
 GT-1041  
 GT-1042  
 GT-1043  
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 GT-1196  
 GT-1197  
 GT-1198  
 GT-1199  
 GT-1200

# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBG-4612,A GENERATOR PARTS LIST

GBG-4612,A

PRELIMINARY

Frame & Field Assembly & Parts Used With					Comm. End Plate 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				
(GBG-3124)	1	Frame & Field Assy.					8X-305	4	#8-32x1/4 Rd. Hd. Sc.								
GBF-55	1	Insulating Washer					8X-361	2	1/4 Plain Washer								
GBG-22	1	Terminal Post					X-1270	1	#10 Skpf. Washer								
GBG-23	1	Terminal Post-5/16-24					8X-118	6	#10-32x3/4 Fill. Hd. Sc.								
GBG-28	1	Terminal Post Ins.					X-195	3	#8 Lock Washer								
GBG-29	4	Pole Piece					X-196	10	#10 Lock Washer								
GBG-30	1	Field Connection Ins.					X-199	1	1/4 Lock Washer								
GBG-38	8	Pole Piece Screw					8X-305	3	#8-32x1/4 Rd. Hd. Screw								
GBG-62	1	Terminal Post Ins.					X-394	1	Screw-in - Sleeve Oiler								
GBG-128	1	Lead Assembly					X-440	1	BALL BEARING - Shielded								
GBG-121	1	Terminal					8X-870	4	#10-32x5/16 Fill. Hd. Sc.								
X-1425	2	Terminal					<u>Armature Assembly &amp; Parts Used With</u>										
GBG-1005A	1	FIELD COIL ASSY.-Comp.					GBG-49	2	Armature Shaft Spacer								
GBG-1007A	1	Field Coil Assy.-U.R.					GBG-2082F	1	ARMATURE ASSEMBLY								
X-1425	1	Terminal					SP-466	1	Drive Pulley								
GBG-1008	1	Field Coil - L.L.					X-263	1	#8 Woodruff Key								
GBG-1009	1	Field Coil - L.R.					X-1134	1	5/8 Plain Washer								
GBG-1010A	1	Field Coil Assy.-U.L.					X-1177	1	5/8 Skpf. Washer								
GBG-26	1	Terminal					X-1178	1	5/8-18 Hex. Nut								
GCY-27	1	Insulating Bushing					<u>Drive End Head Assembly &amp; Parts Used With</u>										
GCY-28	1	Insulating Bushing					GAM-75	1	Felt Wick								
MU-36	1	Insulating Washer					GBG-1127	1	Drive End Head Assy.								
MU-37	1	5/16 Plain Washer					GBG-50	1	Gasket								
8X-183A	1	#10 Plain Washer					GBG-57	1	Felt Washer Retainer								
X-196	1	#10 Lock Washer					GBG-58	1	Felt Washer								
X-1014	1	5/16 Lock Washer					GBG-127	1	Drive End Head								
8X-1376	1	5/16-24 Hex. Nut					GBG-1056	1	Bearing Retainer Assy.								
8X-1377	1	#10-32 Hex. Nut					GBG-56	1	Bearing Retainer								
X-196	2	#10 Lock Washer					GBG-57	1	Felt Washer Retainer								
8X-321	1	#10-32x5/16 Rd. Hd. Sc.					GBG-58	1	Felt Washer								
X-1014	1	5/16 Lock Washer					8X-119	4	#10-32x1/2 Fill. Hd. Sc.								
8X-1376	1	5/16-24 Hex. Nut					X-196	4	#10 Lock Washer								
8X-1377	1	#10-32 Hex. Nut					X-444	1	BALL BEARING - S.A.E. #305								
<u>Comm. End Plate Assembly &amp; Parts Used With</u>						8X-118	6	#10-32x3/4 Fill. Hd. Screw									
DA-60	1	Bearing Retaining Screw					X-394	1	Screw-in - Sleeve Oiler								
GAM-75	1	Oil Wick					X-544	6	#10 Lock Washer								
GBG-46	1	Spring Washer					<u>Miscellaneous Parts</u>										
GBG-47	1	Felt Washer					GBG-24	1	Head Band								
GBG-48	2	Felt Washer Retainer					X-715	1	#10-32x1 1/4 Rd. Hd. Screw								
GBG-63	1	Comm. End Cap Cover					8X-794	1	#10-32 Square Nut								
GBG-64	1	End Cap Cover Gasket							1	2	3	4	5				
GBG-66	1	Bearing Retaining Washer							(Issued 10-31-41)								
(GBG-3126)	1	Comm. End Plate Assy.					† Service BRUSH SET GBG-2012S.										
DA-38	2	Spring Washer					NOTE:-VRA-4105A CURRENT-VOLTAGE REGULATOR is used with but is not a part of this generator.										
DE-85	1	Steel Washer					<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th style="padding: 2px;">UNIT</th> <th style="padding: 2px;">APPLICATION</th> </tr> <tr> <td style="padding: 2px;">GBG-4612,A</td> <td style="padding: 2px;">Hercules</td> </tr> </table>							UNIT	APPLICATION	GBG-4612,A	Hercules
UNIT	APPLICATION																
GBG-4612,A	Hercules																
GBG-41	2	Br. Holder Plate Screw					<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th style="padding: 2px;">UNIT</th> <th style="padding: 2px;">APPLICATION</th> </tr> <tr> <td style="padding: 2px;">GBG-4612,A</td> <td style="padding: 2px;">Hercules</td> </tr> </table>							UNIT	APPLICATION	GBG-4612,A	Hercules
UNIT	APPLICATION																
GBG-4612,A	Hercules																
GBG-51	2	Plain Washer					<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th style="padding: 2px;">UNIT</th> <th style="padding: 2px;">APPLICATION</th> </tr> <tr> <td style="padding: 2px;">GBG-4612,A</td> <td style="padding: 2px;">Hercules</td> </tr> </table>							UNIT	APPLICATION	GBG-4612,A	Hercules
UNIT	APPLICATION																
GBG-4612,A	Hercules																
GBG-126	1	Comm. End Plate					<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th style="padding: 2px;">UNIT</th> <th style="padding: 2px;">APPLICATION</th> </tr> <tr> <td style="padding: 2px;">GBG-4612,A</td> <td style="padding: 2px;">Hercules</td> </tr> </table>							UNIT	APPLICATION	GBG-4612,A	Hercules
UNIT	APPLICATION																
GBG-4612,A	Hercules																
GBG-1012†	4	Brush - Main					<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th style="padding: 2px;">UNIT</th> <th style="padding: 2px;">APPLICATION</th> </tr> <tr> <td style="padding: 2px;">GBG-4612,A</td> <td style="padding: 2px;">Hercules</td> </tr> </table>							UNIT	APPLICATION	GBG-4612,A	Hercules
UNIT	APPLICATION																
GBG-4612,A	Hercules																
GBG-2031	1	Brush Holder Plate Assy.					<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th style="padding: 2px;">UNIT</th> <th style="padding: 2px;">APPLICATION</th> </tr> <tr> <td style="padding: 2px;">GBG-4612,A</td> <td style="padding: 2px;">Hercules</td> </tr> </table>							UNIT	APPLICATION	GBG-4612,A	Hercules
UNIT	APPLICATION																
GBG-4612,A	Hercules																
GBG-18L	4	Brush Holder					<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th style="padding: 2px;">UNIT</th> <th style="padding: 2px;">APPLICATION</th> </tr> <tr> <td style="padding: 2px;">GBG-4612,A</td> <td style="padding: 2px;">Hercules</td> </tr> </table>							UNIT	APPLICATION	GBG-4612,A	Hercules
UNIT	APPLICATION																
GBG-4612,A	Hercules																
GBG-36L	4	Brush Spring					<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th style="padding: 2px;">UNIT</th> <th style="padding: 2px;">APPLICATION</th> </tr> <tr> <td style="padding: 2px;">GBG-4612,A</td> <td style="padding: 2px;">Hercules</td> </tr> </table>							UNIT	APPLICATION	GBG-4612,A	Hercules
UNIT	APPLICATION																
GBG-4612,A	Hercules																
GBG-40L	4	Brush Holder Term.					<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th style="padding: 2px;">UNIT</th> <th style="padding: 2px;">APPLICATION</th> </tr> <tr> <td style="padding: 2px;">GBG-4612,A</td> <td style="padding: 2px;">Hercules</td> </tr> </table>							UNIT	APPLICATION	GBG-4612,A	Hercules
UNIT	APPLICATION																
GBG-4612,A	Hercules																
GBG-85	4	Brush Holder Stud					<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th style="padding: 2px;">UNIT</th> <th style="padding: 2px;">APPLICATION</th> </tr> <tr> <td style="padding: 2px;">GBG-4612,A</td> <td style="padding: 2px;">Hercules</td> </tr> </table>							UNIT	APPLICATION	GBG-4612,A	Hercules
UNIT	APPLICATION																
GBG-4612,A	Hercules																
GBG-1037L	4	Brush Arm					<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th style="padding: 2px;">UNIT</th> <th style="padding: 2px;">APPLICATION</th> </tr> <tr> <td style="padding: 2px;">GBG-4612,A</td> <td style="padding: 2px;">Hercules</td> </tr> </table>							UNIT	APPLICATION	GBG-4612,A	Hercules
UNIT	APPLICATION																
GBG-4612,A	Hercules																
8X-173	4	#10-32 Hex. Nut					<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th style="padding: 2px;">UNIT</th> <th style="padding: 2px;">APPLICATION</th> </tr> <tr> <td style="padding: 2px;">GBG-4612,A</td> <td style="padding: 2px;">Hercules</td> </tr> </table>							UNIT	APPLICATION	GBG-4612,A	Hercules
UNIT	APPLICATION																
GBG-4612,A	Hercules																
X-196	4	#10 Lock Washer					<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th style="padding: 2px;">UNIT</th> <th style="padding: 2px;">APPLICATION</th> </tr> <tr> <td style="padding: 2px;">GBG-4612,A</td> <td style="padding: 2px;">Hercules</td> </tr> </table>							UNIT	APPLICATION	GBG-4612,A	Hercules
UNIT	APPLICATION																
GBG-4612,A	Hercules																
GK-151	1	Plain Steel Washer					<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th style="padding: 2px;">UNIT</th> <th style="padding: 2px;">APPLICATION</th> </tr> <tr> <td style="padding: 2px;">GBG-4612,A</td> <td style="padding: 2px;">Hercules</td> </tr> </table>							UNIT	APPLICATION	GBG-4612,A	Hercules
UNIT	APPLICATION																
GBG-4612,A	Hercules																
X-195	4	#8 Lock Washer					<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th style="padding: 2px;">UNIT</th> <th style="padding: 2px;">APPLICATION</th> </tr> <tr> <td style="padding: 2px;">GBG-4612,A</td> <td style="padding: 2px;">Hercules</td> </tr> </table>							UNIT	APPLICATION	GBG-4612,A	Hercules
UNIT	APPLICATION																
GBG-4612,A	Hercules																
8X-208	1	#10-32x9/16 Hex. Hd. So.					<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th style="padding: 2px;">UNIT</th> <th style="padding: 2px;">APPLICATION</th> </tr> <tr> <td style="padding: 2px;">GBG-4612,A</td> <td style="padding: 2px;">Hercules</td> </tr> </table>							UNIT	APPLICATION	GBG-4612,A	Hercules
UNIT	APPLICATION																
GBG-4612,A	Hercules																
		1	2	3	4	5											

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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."



# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBJ-4201 GENERATOR PARTS LIST

GBJ-4201

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
GBJ-33	1	Grounding Cup					
(GBJ-2001)	1	Frame & Field Assy.					
GAA-27	1	Terminal Post					
GAA-32	2	Terminal Post Top Ins.					
GAL-44	1	Field Connection Ins.					
GBJ-29B	2	Pole Piece					
GBJ-31	1	Terminal Post Lead Assy.					
GAA-27	1	Terminal Post					
X-1425	1	Terminal					
GBJ-1005	1	Field Coil Assy.-Comp.					
GBJ-1007	1	Field Coil Assy.-Left					
X-976	1	Terminal					
GBJ-1008	1	Field Coil - Right					
GBW-66	2	Terminal Post Bottom Ins.					
GCT-25	2	Insulating Bushing					
GK-38	2	Pole Piece Screw					
MN-21	2	Dowel Pin					
5X-177	2	#14-24 Hex. Nut					
X-193	2	#14 Lock Washer					
8X-361	2	1/4 Plain Washer					
GK-20	2	Frame Screw					
SP-82	1	Instruction Plate					
5X-177	2	#14-24 Hex. Nut					
5X-193	2	#14 Lock Washer					
X-199	2	1/4 Lock Washer					
X-453	2	#2x5/16 Drive Screw					

Comm. End Plate Assembly & Parts Used With

DA-22	1	Bearing Retaining Washer					
DA-39	1	Flat Oil Guard					
DA-60	1	Bearing Retaining Screw					
GAB-188	1	Felt Washer					
GBJ-25	1	End Cap Cover Gasket					
GBJ-32	1	Comm. End Cap Cover					
(GBJ-2002)	1	Comm. End Plate Assy.					
GAL-51	2	3rd Brush Plate Retaining Spring					
GAL-1161	1	3rd Brush Plate Assy.					
GBJ-1002	1	C.E. Plate Part Assy.					
GBJ-1012†	2	Brush - Main					
GBJ-1013†	1	Brush - Third					
8X-56	2	#8-32x7/16 Rd. Hd. Sc.					
X-195	1	#8 Lock Washer					
8X-305	1	#8-32x1/4 Rd. Hd. Sc.					
GR-32	1	Felt Washer Retainer					
X-195	2	#8 Lock Washer					
X-199	1	1/4 Lock Washer					
X-295	1	Ball Brg. - S.A.E. #203					
8X-305	2	#8-32x1/4 Rd. Hd. Sc.					
X-489	1	1/4 Oiler - Press in Type					
X-544	3	#10 Lock Washer					
6X-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
GBJ-2006	1	Armature Assy.					
GAR-171	2	Snap Ring					
GK-175	1	Armature Shaft Nut					
X-260	1	#5 Woodruff Key					
X-1280	1	11/16 Skpf. Washer					

Drive End Head Assembly & Parts Used With

GBJ-1003	1	Drive End Head Assy.					
GAR-63	2	Felt Guard					
GAR-64	2	Bearing Retainer					
GBJ-3	1	D.E. Head					
GG-164	2	Felt Washer					
6X-173	3	#10-32 Hex. Nut					
X-196	3	#10 Lock Washer					
X-295	1	Ball Brg. - S.A.E. #203					
X-489	1	1/4 Oiler - Press in Type					
6X-1003	3	#10-32x7/8 Rd. Hd. Sc.					

Miscellaneous Parts

GBW-1024A	1	Head Band Assy.					
X-715	1	#10-32x1 1/4 Rd. Hd. Sc.					
6X-794	1	#10-32 Square Nut					
			1	2	3	4	5

(Issued 4-25-41)

† Service Brush Set GBJ-2012S.

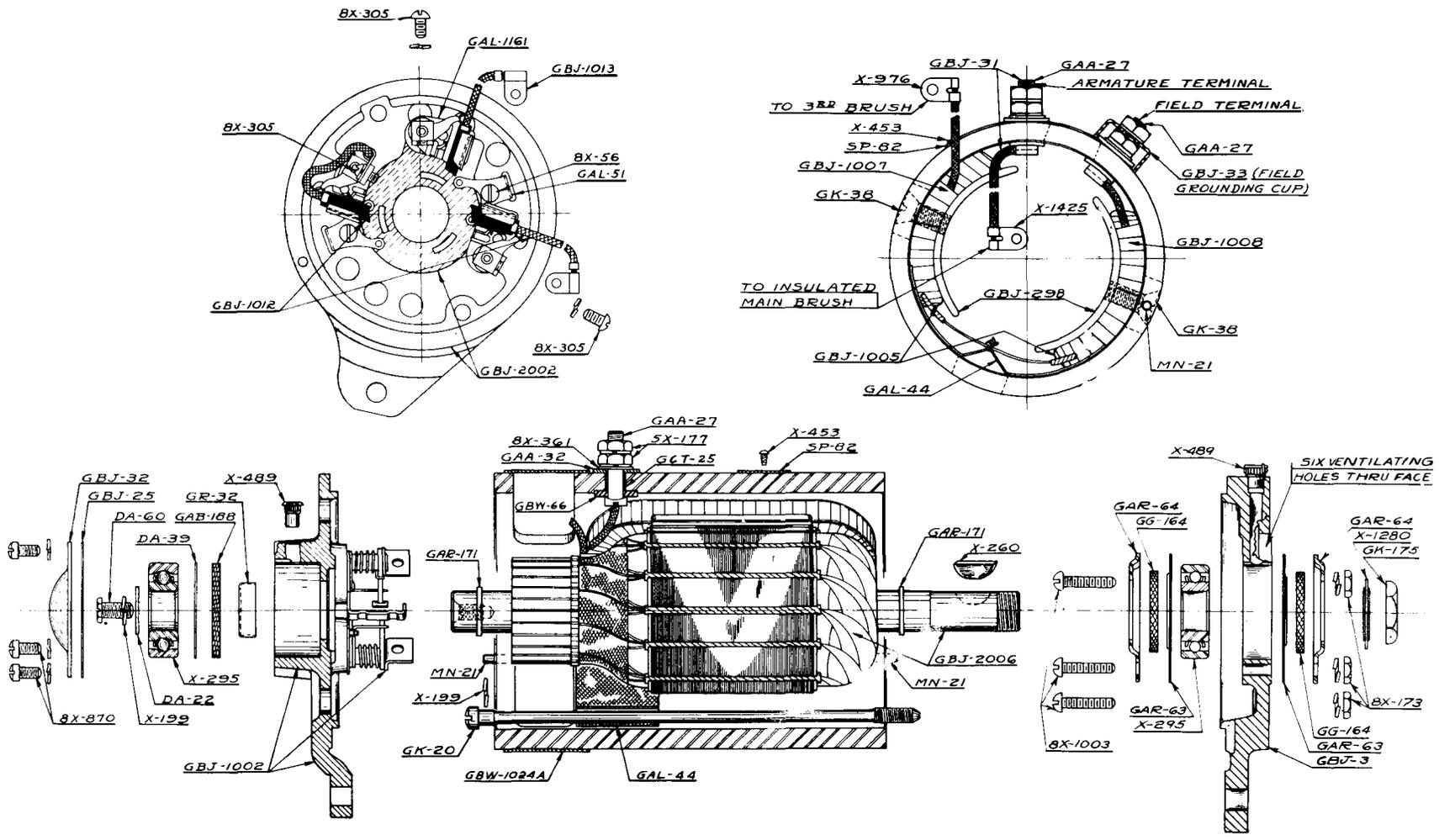
UNIT	APPLICATION
GBJ-4201	Service Unit

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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."

GBJ-4201 GENERATOR ILLUSTRATION



GBJ-4201  
FILE A-757

# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBJ-4202 GENERATOR PARTS LIST

GBJ-4202

## Frame & Field Assy. & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GBJ-33	1	Grounding Cup				
(GBJ-2034)	1	Frame & Field Assy.				
GAA-27	1	Terminal Post				
GAA-32	2	Term. Post Top Ins.				
GAL-44	1	Field Connection Ins.				
GAM-40	1	Aligning Dowel				
GBJ-29B	2	Pole Piece				
GBJ-31	1	Term. Post Lead Assy.				
GAA-27	1	Terminal Post				
X-1425	1	Terminal				
GBJ-1005	1	Field Coil Assy.-Comp.				
GBJ-1007	1	Field Coil Assy.-Left				
X-976	1	Terminal				
GBJ-1008	1	Field Coil - Right				
GBW-66	2	Term. Post Bottom Ins.				
GCT-25	2	Insulating Bushing				
GK-38	2	Pole Piece Screw				
MNV-21	2	Dowel Pin				
5X-177	2	#14-24 Hex. Nut				
X-193	2	#14 Lock Washer				
8X-361	2	1/4 Plain Washer				
GK-20	2	Frame Screw				
5X-177	2	#14-24 Hex. Nut				
X-193	2	#14 Lock Washer				
X-199	2	1/4 Lock Washer				

## Comm. End Plate Assy. & Parts Used With

DA-22	1	Bearing Retaining Washer				
DA-39	1	Flat Oil Guard				
DA-60	1	Bearing Retaining Screw				
DJ-4	1	Comm. End Cap Cover				
DJ-10	1	End Cap Cover Gasket				
(GAL-2213C)	1	Comm. End Plate Assy.				
GAL-51	2	3rd Brush Plate Retaining Spring				
GAL-1161	1	3rd Brush Plate Assy.				
GAL-1213A	1	C. E. Plate Part Assy.				
GBJ-1012†	2	Brush - Main				
GBJ-1013†	1	Brush - Third				
8X-56	2	#8-32x7/16 Rd. Hd. So.				
X-195	1	#8 Lock Washer				
8X-305	1	#8-32x1/4 Rd. Hd. So.				
GR-32	1	Felt Washer Retainer				
GR-35	1	Felt Washer				
X-195	2	#8 Lock Washer				
X-199	1	1/4 Lock Washer				
X-295	1	Ball Bearing - S.A.E. #203				
8X-305	2	#8-32x1/4 Rd. Hd. Screw				
X-489	1	1/4 Oiler - Press in Type				
X-544	3	#10 Lock Washer				
6X-870	3	#10-32x5/16 Fill. Hd. Screw				
		1	2	3	4	5

## Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GAA-69	1	Look Spring Ring				
GBJ-2035	1	Armature Assy.				
GAR-171	2	Snap Ring				
SP-96	1	Ventilating Fan				
X-258	1	#3 Woodruff Key				

## Drive End Head Assy. & Parts Used With

GAR-1062A	1	Drive End Head Assy.				
GAR-62A	1	Drive End Head				
GAR-63	1	Felt Guard				
GAR-64	2	Bearing Retainer				
GG-164	1	Felt Washer				
6X-173	3	#10-32 Hex. Nut				
X-295	1	Ball Brg. - S.A.E. #203				
X-489	1	1/4 Oiler - Press in Type				
6X-1003	3	#10-32x7/8 Rd. Hd. So.				
X-1270	3	#10 Skpf. Washer				

## Miscellaneous Parts

GBW-1024A	1	Head Band Assy.				
X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
6X-794	1	#10-32 Square Nut				
		1	2	3	4	5

(Issued 11-16-38)

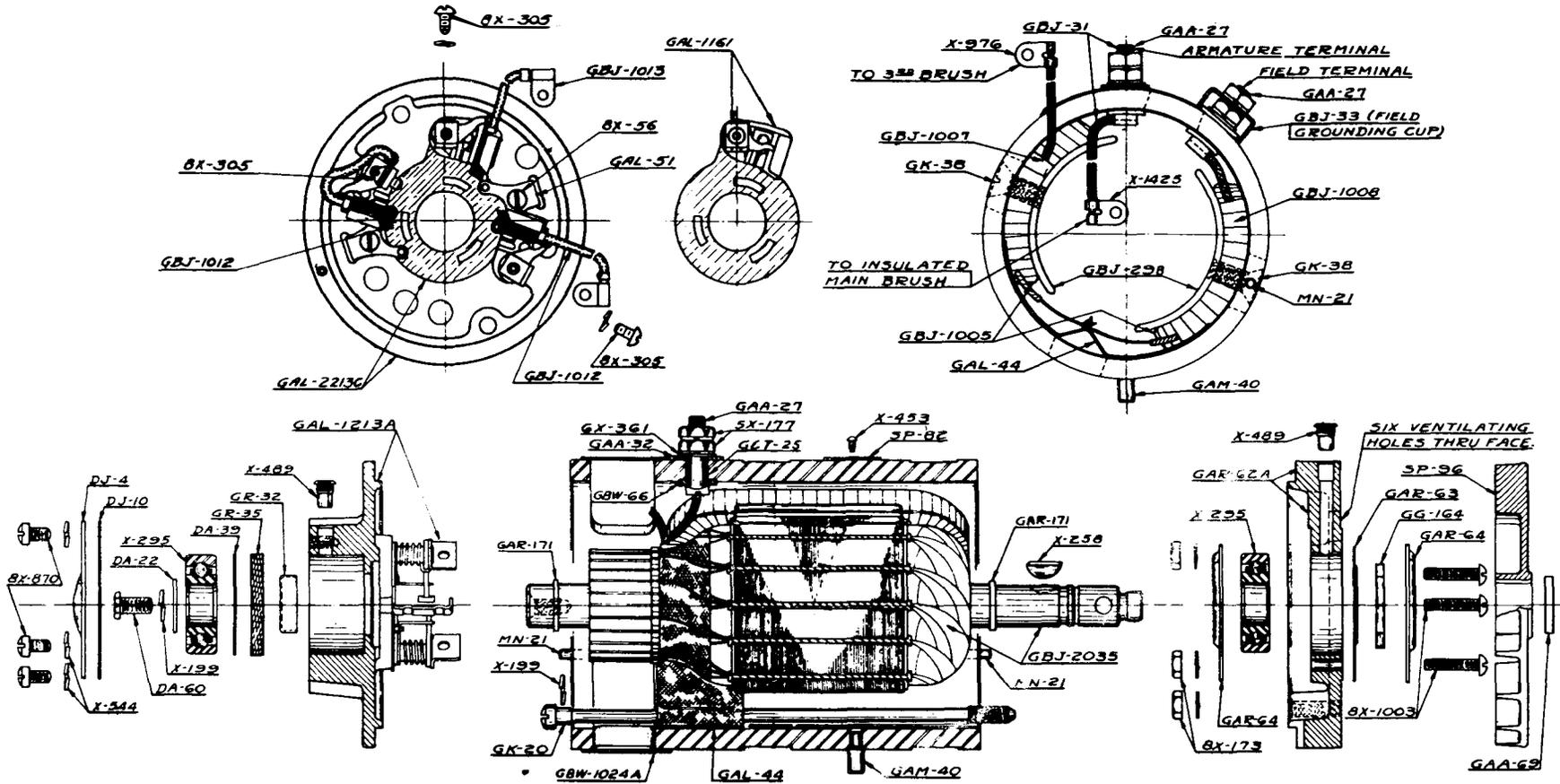
† Service Brush Set GEM-2012AS.

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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."

# GBJ-4202 GENERATOR ILLUSTRATION



# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBJ-4204 GENERATOR PARTS LIST

GBJ-4204

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	
(GBJ-2040)	1	Frame & Field Assy.					GBJ-2041	1	Armature Assy.					
GAL-44	1	Field Connection Ins.					GAR-171	2	Snap Ring					
GAR-211A	1	Insulating Bushing					GK-175	1	Armature Shaft Nut					
GBJ-29B	2	Pole Piece					X-260	1	#5 Woodruff Key					
GBJ-1005A	1	Field Coil Assy. - Comp.					X-1280	1	11/16 Skpf. Washer					
GBJ-1007A	1	Field Coil Assy. - Left					Drive End Head Assembly & Parts Used With							
GAL-289	1	C.B. Lead Assy.					GBJ-1003	1	Drive End Head Assy.					
X-755	1	Terminal					GAR-63	2	Felt Guard					
X-1425	1	Terminal					GAR-64	2	Bearing Retainer					
X-976	1	Terminal					GBJ-3	1	D.E. Head					
GBJ-1008A	1	Field Coil - Right					GG-164	2	Felt Washer					
X-767	1	Terminal					8X-173	3	#10-32 Hex. Nut					
GK-38	2	Pole Piece Screw					X-196	3	#10 Lock Washer					
MN-21	2	Dowel Pin					X-295	1	Ball Brg. - S.A.E. #203					
GK-20	2	Frame Screw					X-489	1	1/4 Oiler - Press in Type					
X-199	2	1/4 Lock Washer					8X-1003	3	#10-32x7/8 Rd. Hd. Screw					
Comm. End Plate Assembly & Parts Used With					Miscellaneous Parts									
DA-22	1	Bearing Retaining Washer					GBW-1024A	1	Head Band Assy.					
DA-39	1	Flat Oil Guard					TC-4302A	1	Two Charge Regulator					
DA-60	1	Bearing Retaining Screw					X-196	4	#10 Lock Washer					
GAB-188	1	Felt Washer					8X-321	4	#10-32x5/16 Rd. Hd. Screw					
GBJ-25	1	End Cap Cover Gasket					X-715	1	#10-32x1 1/4 Rd. Hd. Screw					
GBJ-32	1	Comm. End Cap Cover					8X-794	1	#10-32 Square Nut					
(GBJ-2002)	1	Comm. End Plate Assy.							1	2	3	4	5	
GAL-51	2	3rd Brush Plate Retain'g Spring					(Issued 12-11-36)							
GAL-1161	1	3rd Brush Plate Assy.												
GBJ-1002	1	C.E. Plate Part Assy.												
GBJ-1012‡	2	Brush - Main												
GBJ-1013‡	1	Brush - Third												
8X-56	2	#8-32x7/16 Rd. Hd. Screw												
X-195	1	#8 Lock Washer												
8X-305	1	#8-32x1/4 Rd. Hd. Screw												
GR-32	2	Felt Washer Retainer												
X-195	2	#8 Lock Washer												
X-199	1	1/4 Lock Washer												
X-295	1	Ball Brg. - S.A.E. #203												
8X-305	2	#8-32x1/4 Rd. Hd. Screw												
X-489	1	1/4 Oiler - Press in Type												
X-544	3	#10 Lock Washer												
8X-870	3	#10-32x5/16 Fill. Hd. Screw												
		1	2	3	4	5								

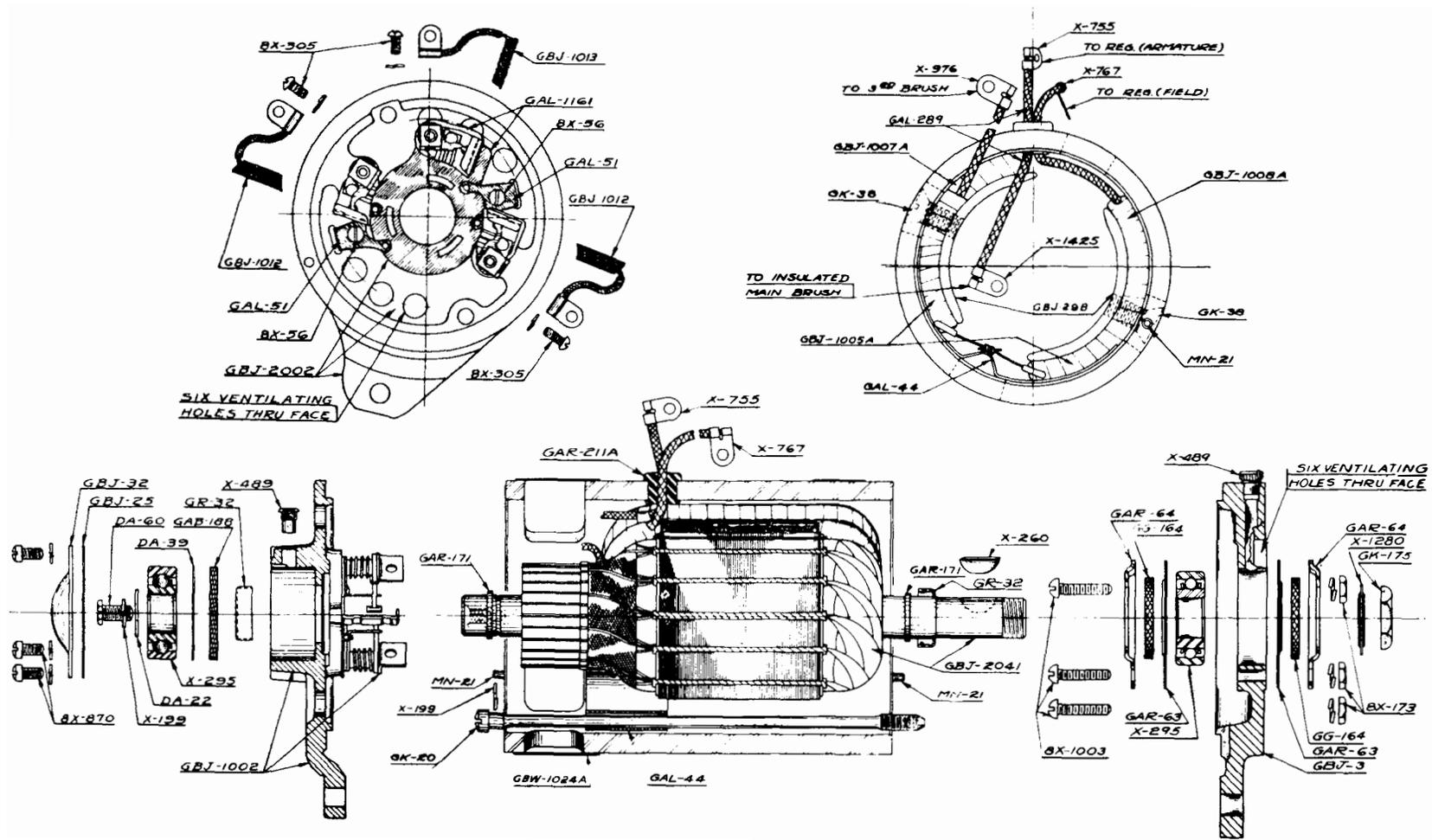
‡ Service Brush Set GBJ-2012S.

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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."

# GBJ-4204 GENERATOR ILLUSTRATION



# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBJ-4205 GENERATOR PARTS LIST

GBJ-4205

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
GBF-39S	1					Mounting Bracket	GBJ-2042	1					Armature Assembly
(GBJ-2043)	1					Frame & Field Assembly	GAR-171	2					Snap Ring
GAL-44	1					Field Connection Ins.	GK-175	1					Armature Shaft Nut
GAR-211	1					Insulating Bushing	GR-32	1					Felt Washer Retainer
GBJ-29B	2					Pole Piece	SP-137	1					Drive Pulley
GBJ-1005A	1					Field Coil Assy. - Comp.	X-260	1					#5 Woodruff Key
GBJ-1007A	1					Field Coil Assy.-Left	X-1280	1					11/16 Skpf. Washer
GAL-289	1					C.B. Lead Assy.	<u>Drive End Head Assembly &amp; Parts Used With</u>						
X-755	1					Terminal	GBJ-1039	1					Drive End Head Assembly
X-1425	1					Terminal	GAR-63	2					Felt Guard
X-976	1					Terminal	GAR-64	2					Bearing Retainer
GBJ-1008A	1					Field Coil Assy.-Right	GBJ-39	1					D.E. Head
X-767	1					Terminal	GG-164	2					Felt Washer
GK-38	2					Pole Piece Screw	8X-173	3					#10-32 Hex. Nut
MN-21	2					Dowel Pin	X-196	3					#10 Lock Washer
GK-20	2					Frame Screw	X-295	1					Ball Brg. - S.A.E. #203
X-199	2					1/4 Lock Washer	X-489	1					1/4 Oiler - Press in Type
X-534	2					1/4 Lock Washer	8X-1003	3					#10-32x7/8 Rd. Hd. Screw
X-909	2					1/4-28x7/16 Fill. Hd. Screw	<u>Miscellaneous Parts</u>						
<u>Comm. End Plate Assembly &amp; Parts Used With</u>						GBW-1024A	1						Head Band Assembly
DA-22	1					Bearing Retaining Washer	TC-4302A	1					Two Charge Regulator
DA-39	1					Flat Oil Guard	X-196	4					#10 Lock Washer
DA-60	1					Bearing Retaining Screw	8X-321	4					#10-32x5/16 Rd. Hd. Screw
DJ-4	1					Comm. End Cap Cover	X-715	1					#10-32x1 1/4 Rd. Hd. Screw
DJ-10	1					End Cap Cover Gasket	8X-794	1					#10-32 Square Nut
(GAL-2213C)	1					Comm. End Plate Assembly			1	2	3	4	5
GAL-51	2					3rd Brush Plate Retain'g Spring	(Issued 1-25-37)						
GAL-1161	1					3rd Brush Plate Assembly							
GAL-1213A	1					C.E. Plate Part Assembly							
GBJ-1012†	2					Brush - Main							
GBJ-1013†	1					Brush - Third							
8X-56	2					#8-32x7/16 Rd. Hd. Screw							
X-195	1					#8 Lock Washer							
8X-305	1					#8-32x1/4 Rd. Hd. Screw							
GR-32	1					Felt Washer Retainer							
GR-35	1					Felt Washer							
X-195	2					#8 Lock Washer							
X-199	1					1/4 Lock Washer							
X-295	1					Ball Brg. - S.A.E. 203							
8X-305	2					#8-32x1/4 Rd. Hd. Screw							
X-489	1					1/4 Oiler - Press in Type							
X-544	3					#10 Lock Washer							
8X-870	3					#10-32x5/16 Fill. Hd. Screw							
		1	2	3	4	5							

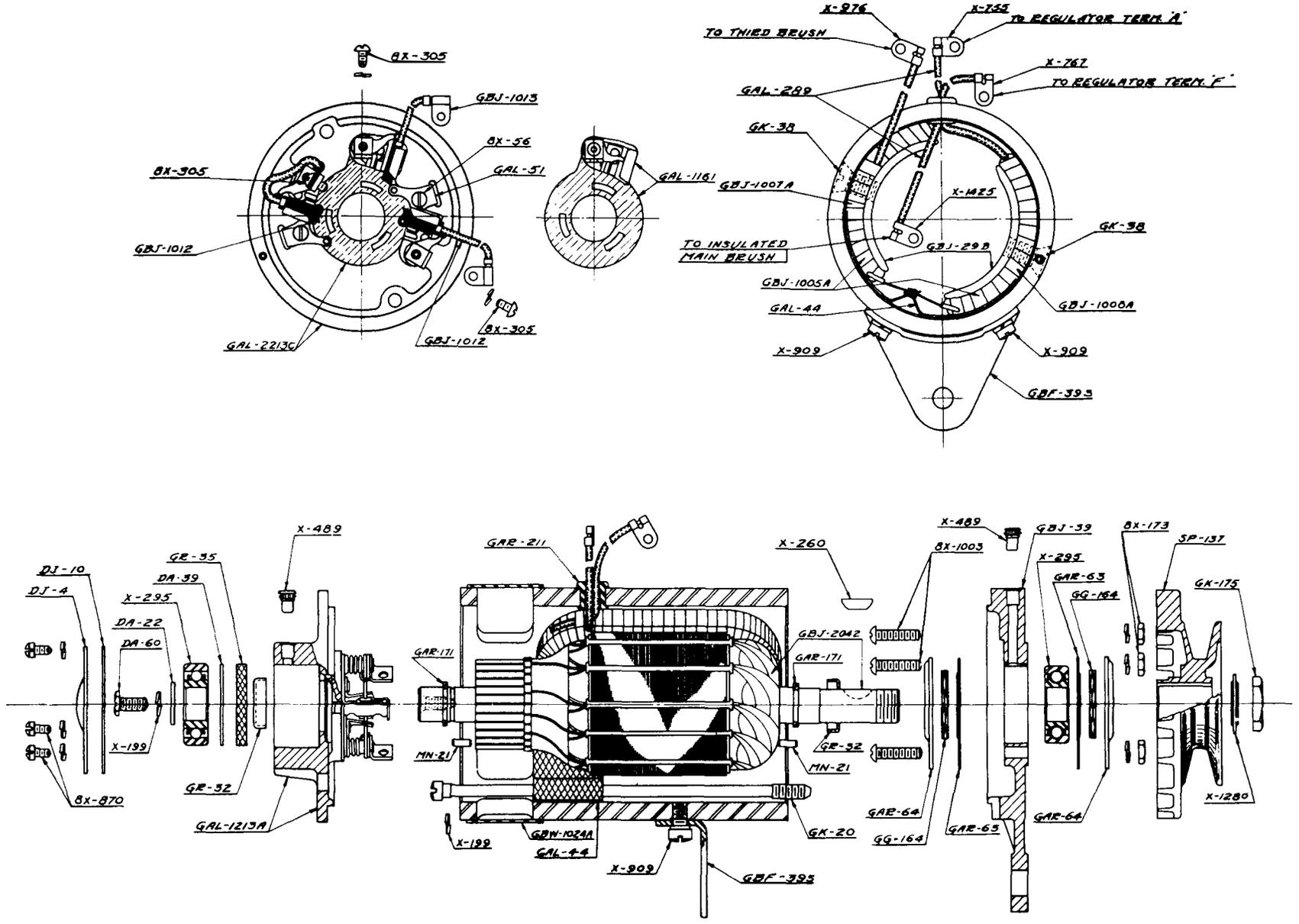
† Service Brush Set GBJ-2012S.

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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."

GBJ-4205 GENERATOR ILLUSTRATION



# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBJ-4601 GENERATOR PARTS LIST

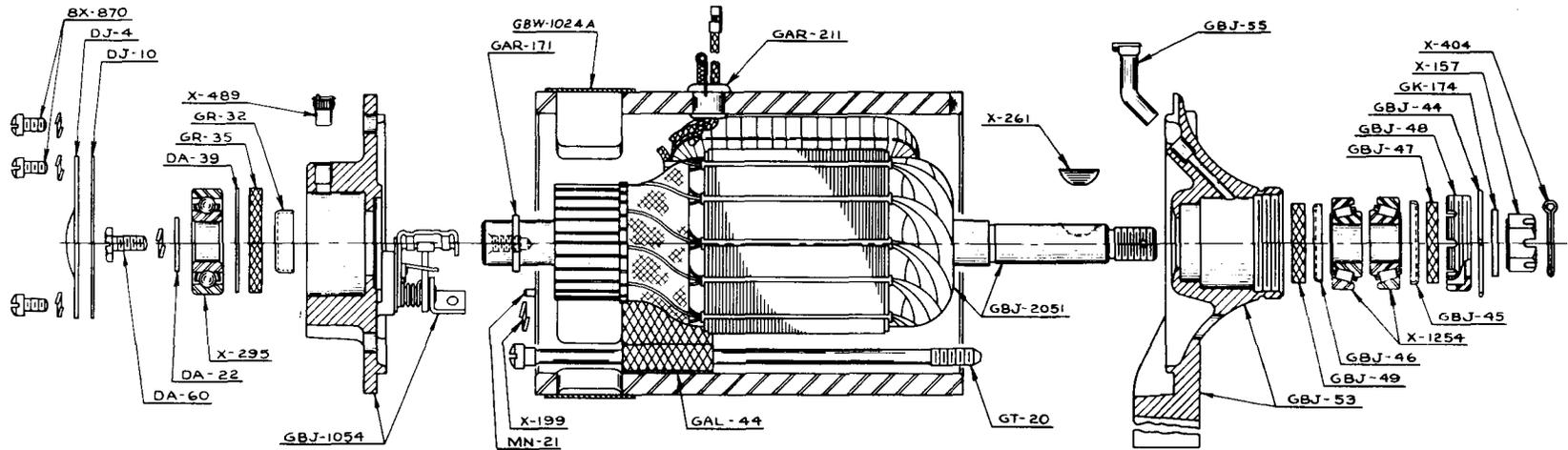
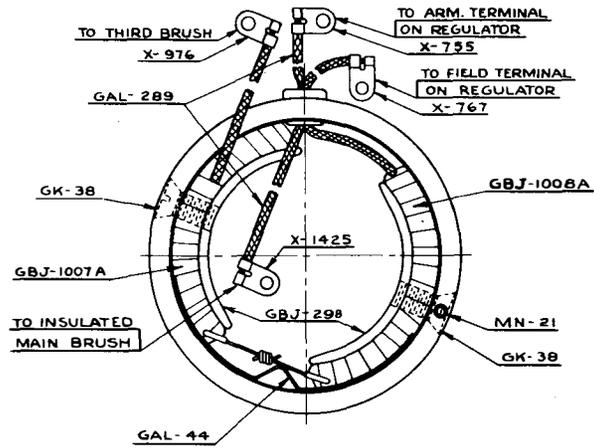
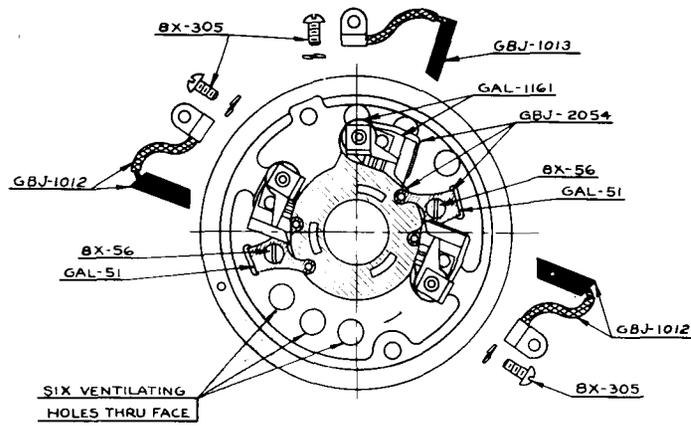
GBJ-4601

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
(GBJ-2052)	1	Frame & Field Assy.					GBJ-2051	1	Armature Assembly				
GAL-44	1	Field Connection Ins.					GAR-171	1	Snap Ring				
GAR-211	1	Ins. Bushing					GK-174	1	1/2 Plain Washer				
<del>GBJ-29B</del>	2	Pole Piece					X-157	1	1/2-20 Slotted Nut				
GBJ-1005A	1	Field Coil Assy.-Comp.					X-261	1	#6 Woodruff Key				
GBJ-1007A	1	Field Coil Assy.-Left					X-404	1	3/32x1 Cotter Pin				
GAL-289	1	C.B. Lead Assy.					<u>Drive End Head Assembly &amp; Parts Used With</u>						
X-755	1	Terminal					GBJ-1053	1	Drive End Head Assy.				
X-1425	1	Terminal					GBJ-44	1	Lock Spring Ring				
X-976	1	Terminal					GBJ-45	1	Bearing Retainer-Large				
GBJ-1008A	1	Field Coil - Right					GBJ-46	1	Bearing Retainer-Small				
GK-38	2	Pole Piece Screw					GBJ-47	1	Felt Washer				
MN-21	1	Dowel Pin					GBJ-48	1	Bearing Retaining Nut				
GT-20	2	Frame Screw					GBJ-49	1	Felt Washer				
X-199	2	1/4 Lock Washer					GBJ-53	1	D.E. Head				
<u>Comm. End Plate Assembly &amp; Parts Used With</u>						GBJ-55	1	Oiler					
DA-22	1	Bearing Retaining Washer					X-1254	2	Roller Bearing				
DA-39	1	Flat Oil Guard					<u>Miscellaneous Parts</u>						
DA-60	1	Bearing Retaining Screw					GBW-1024A	1	Head Band Assembly				
DJ-4	1	Comm. End Cap Cover					TC-4302A	1	Two Charge Regulator & Circuit Breaker				
DJ-10	1	End Cap Cover Gasket					8X-321	4	#10-32x5/16 Rd. Hd. Screw				
(GBJ-2054)	1	Comm. End Plate Assy.					X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
GAL-51	2	3rd Brush Plate Retain'g Spring					8X-794	1	#10-32 Square Nut				
GAL-1161	1	3rd Brush Plate Assy.					X-1270	4	#10 Skpf. Washer				
GBJ-1012‡	2	Brush - Main							1	2	3	4	5
GBJ-1013‡	1	Brush - Third					(Issued 5-22-40)						
GBJ-1054	1	Comm. End Plate Part Assy											
8X-56	2	#8-32x7/16 Rd. Hd. Screw											
X-195	1	#8 Lock Washer											
8X-305	1	#8-32x1/4 Rd. Hd. Screw											
GR-32	1	Felt Washer Retainer											
GR-35	1	Felt Washer											
X-195	2	#8 Lock Washer											
X-199	1	1/4 Lock Washer											
X-295	1	Ball Brg. - S.A.E. #203											
8X-305	2	#8-32x1/4 Rd. Hd. Screw											
X-489	1	1/4 Oiler - Press in Type											
X-544	3	#10 Lock Washer											
8X-870	3	#10-32x5/16 Fill. Hd. Screw											
		1	2	3	4	5							

Unit	Application
GBJ-4601	Service Generator

‡ Service Brush Set GBJ-2012S.

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GBJ-4601 GENERATOR ILLUSTRATION

# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBK-4604 GENERATOR PARTS LIST

GBK-4604

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-225	1	Fuse Cover					GBK-2055	1	Armature Assembly				
(GBK-2099)	1	Frame & Field Assy.					GAR-171	1	Snap Ring				
GAL-44	1	Field Connection Ins.					GBM-21	1	Armature Shaft Nut				
GAL-1224	1	Fuse Holder					SP-135	1	Drive Pulley				
GAM-1005E	1	Field Coil Assy.-Comp.					X-260	1	#5 Woodruff Key				
GAM-1007D	1	Field Coil Assy.-Left					X-1280	1	11/16 Skpf. Washer				
GAL-76	1	C.B. Lead Assy.					<u>Drive End Head Assembly &amp; Parts Used With</u>						
X-755	1	Terminal					GBJ-1003A	1	Drive End Head Assy.				
X-947	1	Terminal - Spade Type - L.H.					GAR-63	2	Felt Guard				
X-946	1	Terminal					GAR-64	2	Bearing Retainer				
GAM-1008A	1	Field Coil Assy.-Right					GBF-95	1	Dowel Pin				
X-976	1	Terminal					GBJ-3A	1	Drive End Head				
GAR-211	1	Insulating Bushing					GG-164	2	Felt Washer				
GBK-29	2	Pole Piece					6X-173	3	#10-32 Hex. Nut				
GK-38	2	Pole Piece Screw					X-196	3	#10 Lock Washer				
8X-59	1	#8-32x3/16 Rd. Hd. Sc.					X-295	1	Ball Brg. - S.A.B. #203				
X-195	1	#8 Lock Washer					X-489	1	1/4 Oiler - Press in Type				
GJ-20	2	Frame Screw					6X-1003	3	#10-32x7/8 Rd. Hd. Sc.				
X-535	2	1/4 Lock Washer					<u>Miscellaneous Parts</u>						
X-842	1	Fuse - 5 Ampere					CB-4023	1	Circuit Breaker Assy.				
<u>Comm. End Plate Assembly &amp; Parts Used With</u>						CB-123	1	Armature Spring					
(GAM-3050C)	1	Comm. End Plate Assy.					CB-160	1	C.B. Cover				
GAL-199	2	Brush Screw Block					PX-55	1	#10-32x3/16 Bdg. Hd. Sc.				
GAL-242	2	Brush Holder					X-196	2	#10 Lock Washer				
GAL-243	2	Brush Spring					8X-312	1	#10-32x1/4 Rd. Hd. Sc.				
GAM-121	2	Brush - Main					GAL-1024	1	Head Band Assembly				
GAM-56	2	3rd Brush Plate Retain'g. Spring					X-196	2	#10 Lock Washer				
GAM-69	1	Ground Connector Assy.					8X-321	2	#10-32x5/16 Rd. Hd. Screw				
X-958	1	Terminal					X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
X-1031	1	Terminal					8X-794	1	#10-32 Square Nut				
GAM-2050E	1	C.E. Plate Part Assy.					1 2 3 4 5						
X-390	1	Oiler - 1/4 Hinged Top					(Issued 10-21-37)						
GAM-2058A	1	3rd Brush Holder Plate Assembly											
GAL-131	1	Brush - 3rd											
GAL-199	1	Brush Screw Block											
GAL-242	1	Brush Holder											
GAL-243	1	Brush Spring											
GAM-1058A	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. Sc.											
6X-59	2	#8-32x3/16 Rd. Hd. Sc.											
6X-63	2	#8-32x3/8 Flat Hd. Sc.											
X-195	3	#8 Lock Washer											
X-1276	1	#8 Skpf. Washer											
1 2 3 4 5													

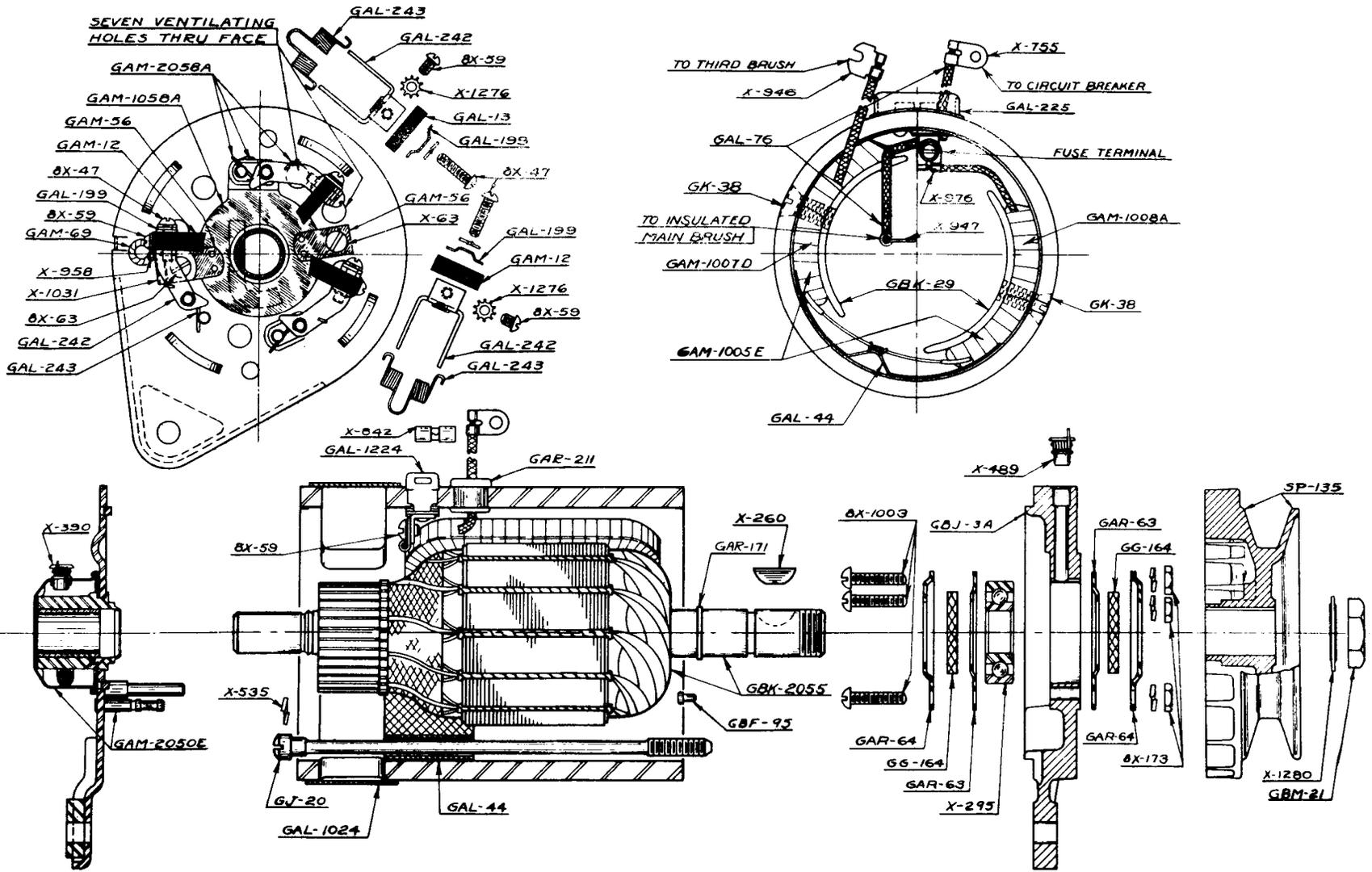
‡ Service Brush Set GAM-2012.

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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."

GBK-4604 GENERATOR ILLUSTRATION



# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBM-4601 GENERATOR PARTS LIST

GBM-4601

## Frame & Field Assy. & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
(GAM-2095)	1	Frame & Field Assy.				
GAL-44	1	Field Connection Ins.				
GAM-29	2	Pole Piece				
GAM-1005F	1	Field Coil Assy.-Comp.				
GAM-1007E	1	Field Coil Assy.-Left				
GAL-289	1	C. B. Lead Assy.				
X-755	1	Terminal				
X-1425	1	Terminal				
X-976	1	Terminal				
GAM-1008	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				
6X-140	1	#6-32 Hex. Nut				
X-194	1	#8 Lock Washer				
6X-1008	1	#6-32x9/16 Rd. Hd. Sc.				
GJ-20	2	Frame Screw				
X-199	2	1/4 Lock Washer				

## Comm. End Plate Assy. & Parts Used With

(GAR-2110C)	1	Comm. End Plate Assy.				
GAL-51	2	3rd Brush Plate Retaining Spring				
GAR-73	1	Oil Wick				
GAR-75	1	Oil Guard				
GAR-78	1	Gasket				
GAR-79	1	C. E. Cap Cover				
GAR-98	1	Wick Cover				
GAR-1072	1	3rd Brush Holder Plate Assy				
GAR-1110A	1	C. E. Plate Part Assy.				
GBF-79	1	Absorbent Bronze Brg.				
GBM-1012A‡	2	Brush - Main				
GBM-1013A‡	1	Brush - Third				
8X-56	2	#8-32x7/16 Rd. Hd. Sc.				
X-195	1	#8 Lock Washer				
X-196	3	#10 Lock Washer				
8X-305	1	#8-32x1/4 Rd. Hd. Sc.				
X-489	1	1/4 Oiler - Press in Type				
8X-870	3	#10-32x5/16 Fill. Hd. Sc.				
X-195	2	#8 Lock Washer				
8X-305	2	#8-32x1/4 Rd. Hd. Screw				
		1	2	3	4	5

## Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GBM-21	1	Armature Shaft Nut				
GBM-2006	1	Armature Assy.				
GAR-171	1	Snap Ring				
GR-32	1	Felt Washer Retainer				
SP-149	1	Drive Pulley				
X-260	1	#5 Woodruff Key				
X-864	1	.669 Lock Washer				

## Drive End Head Assy. & Parts Used With

GBJ-1003	1	Drive End Head Assy.				
GAR-63	2	Felt Guard				
GAR-64	2	Bearing Retainer				
GBJ-3	1	D. E. Head				
GG-164	2	Felt Washer				
6X-173	3	#10-32 Hex. Nut				
X-196	3	#10 Lock Washer				
X-295	1	Ball Brg. - S.A.E. #203				
X-489	1	1/4 Oiler - Press in Type				
6X-1003	3	#10-32x7/8 Rd. Hd. Sc.				

## 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. Sc.				
GAL-1024	1	Head Band Assy.				
X-196	2	#10 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				
		1	2	3	4	5

(Issued 11-16-38)

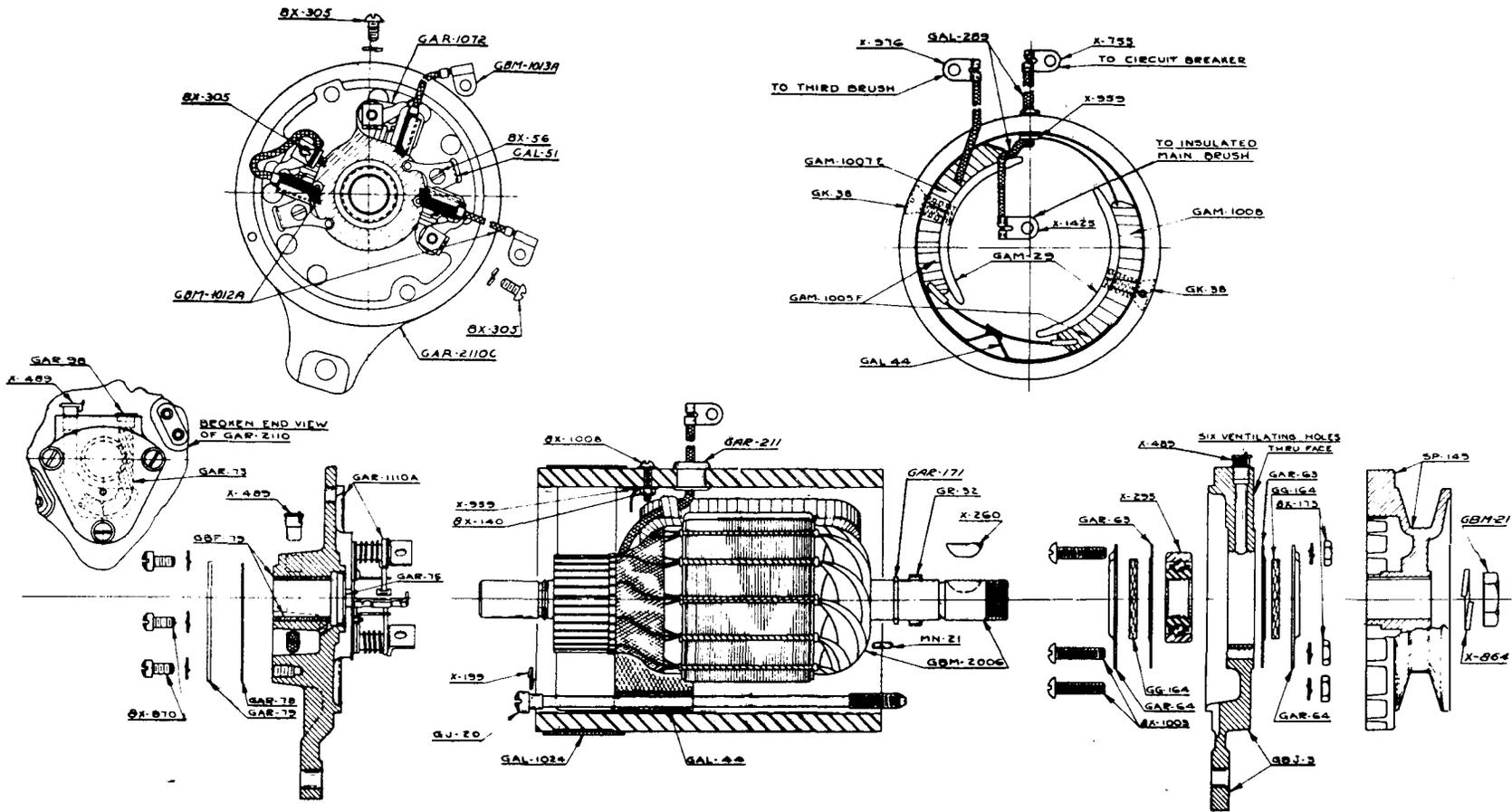
‡ Service Brush Set GBM-2012AS.

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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."

GBM-4601 GENERATOR ILLUSTRATION



# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GEM-4602 GENERATOR PARTS LIST

GEM-4602

<u>Frame &amp; Field Assy. &amp; Parts Used With</u>						<u>Armature Assembly &amp; Parts Used With</u>							
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-2095)	1	Frame & Field Assy.					GEM-21	1	Armature Shaft Nut				
GAL-44	1	Field Connection Ins.					GEM-2006	1	Armature Assy.				
GAM-29	2	Pole Piece					GAR-171	1	Snap Ring				
GAM-1005F	1	Field Coil Assy.-Comp.					GR-32	1	Felt Washer Retainer				
GAM-1007E	1	Field Coil Assy.-Left					SP-150	1	Drive Pulley				
GAL-289	1	C. B. Lead Assy.					X-260	1	#5 Woodruff Key				
X-755	1	Terminal					X-864	1	.669 Lock Washer				
X-1425	1	Terminal					<u>Drive End Head Assy. &amp; Parts Used With</u>						
X-976	1	Terminal					GBJ-1003	1	Drive End Head Assy.				
GAM-1008	1	Field Coil Assy.-Right					GAR-63	2	Felt Guard				
X-959	1	Terminal					GAR-64	2	Bearing Retainer				
GAR-211	1	Insulating Bushing					GBJ-3	1	D. E. Head				
GK-38	2	Pole Piece Screw					GG-164	2	Felt Washer				
MN-21	2	Dowel Pin					6X-173	3	#10-32 Hex. Nut				
6X-140	1	#6-32 Hex. Nut					X-196	3	#10 Lock Washer				
X-194	1	#6 Lock Washer					X-295	1	Ball Brg. - S.A.E. #203				
6X-1008	1	#6-32x9/16 Rd. Hd. Sc.					X-489	1	1/4 Oiler - Press in Type				
GJ-20	2	Frame Screw					6X-1003	3	#10-32x7/8 Rd. Hd. Sc.				
X-199	2	1/4 Lock Washer					<u>Miscellaneous Parts</u>						
<u>Comm. End Plate Assy. &amp; Parts Used With</u>						CB-4014	1	Circuit Breaker Assy.					
(GAR-2110C)	1	Comm. End Plate Assy.					CB-123	1	Armature Spring				
GAL-51	2	3rd Brush Plate Retaining Spring					CB-160S	1	C. B. Cover				
GAR-73	1	Oil Wick					PX-55	1	#10-32x3/16 Bdg. Hd. Sc.				
GAR-75	1	Oil Guard					X-196	2	#10 Lock Washer				
GAR-78	1	Gasket					6X-312	1	#10-32x1/4 Rd. Hd. Sc.				
GAR-79	1	C. E. Cap Cover					GAL-1024	1	Head Band Assy.				
GAR-98	1	Wick Cover					X-196	2	#10 Lock Washer				
GAR-1072	1	3rd Brush Holder Plate Assy.					6X-321	2	#10-32x5/16 Rd. Hd. Screw				
GAR-1110A	1	C. E. Plate Part Assy.					X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
GBF-79	1	Absorbent Bronze Brg.					6X-794	1	#10-32 Square Nut				
GEM-1012A†	2	Brush - Main							1	2	3	4	5
GEM-1013A†	1	Brush - Third					(Issued 11-16-38)						
6X-56	2	#8-32x7/16 Rd. Hd. Sc.											
X-195	1	#8 Lock Washer											
X-196	3	#10 Lock Washer											
6X-305	1	#8-32x1/4 Rd. Hd. Sc.											
X-489	1	1/4 Oiler - Press in Type											
6X-870	3	#10-32x5/16 Fill. Hd. Sc.											
X-195	2	#8 Lock Washer											
6X-305	2	#8-32x1/4 Rd. Hd. Screw											
		1	2	3	4	5							

† Service Brush Set GEM-2012AS.

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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

GBM-4603 GENERATOR PARTS LIST  
& A to H

GBM-4603  
& A to H

Frame & Field Assembly & Parts Used With						Drive End Head 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-2096)	1	Frame & Field Assembly					GBJ-1003C	1	Drive End Head Assembly				
GAL-44	1	Field Connection Ins.					GAR-63	2	Felt Guard				
GAM-29	2	Pole Piece					GAR-64	2	Bearing Retainer				
GAM-1005F	1	Field Coil Assy.-Comp.					GBJ-3C	1	D.E. Head				
GAM-1007F	1	Field Coil Assy.-Left					GG-164	2	Felt Washer				
GAL-289	1	C.B. Lead Assy.					6X-173	3	#10-32 Hex. Nut				
X-755	1	Terminal					X-196	3	#10 Lock Washer				
X-1425	1	Terminal					X-295	1	Ball Brg. - S.A.E. #203				
X-976	1	Terminal					X-489	1	1/4 Oiler - Press in Type				
GAM-1008	1	Field Coil Assy.-Right					6X-1003	3	#10-32x7/8 Rd. Hd. Screw				
X-959	1	Terminal					<u>Miscellaneous Parts</u>						
GAR-211	1	Insulating Bushing					CB-4014	1	Circuit Breaker Assembly				
GK-38B	2	Pole Piece Screw					CB-123	1	Armature Spring				
MN-21	2	Dowel Pin					CB-160	1	C.B. Cover				
6X-140	1	#6-32 Hex. Nut					PX-55	1	#10-32x3/16 Bdg. Hd. Sc.				
X-194	1	#6 Lock Washer					X-196	2	#10 Lock Washer				
6X-1008	1	#6-32x9/16 Rd. Hd. Sc.					8X-312	1	#10-32x1/4 Rd. Hd. Sc.				
MW-20A	2	Frame Screw					GBM-24	1	Head Band				
12X-199	2	1/4 Lock Washer					8X-321	2	#10-32x5/16 Rd. Hd. Screw				
<u>Comm. End Plate Assembly &amp; Parts Used With</u>						8X-715	1	#10-32x1 1/4 Rd. Hd. Screw					
(GAR-2110B)	1	Comm. End Plate Assembly					8X-794	1	#10-32 Square Nut				
GAL-51	2	3rd Brush Plate Retain'g Spring					X-1270	2	#10 Skpf. Washer				
GAR-73	1	Oil Wick							1	2	3	4	5
GAR-75	1	Oil Guard					(Issued 11-1-35)						
GAR-78	1	Gasket											
GAR-79A	1	C.E. Cap Cover											
GAR-98A	1	Wick Cover											
GAR-1072	1	3rd Br. Holder Plate Assembly											
GAR-2110A	1	C.E. Plate Part Assy.											
CBF-79	1	Absorbent Bronze Brg.											
8X-56	2	#3-32x7/16 Rd. Hd. Sc.											
12X-196	3	#10 Lock Washer											
X-489	1	1/4 Oiler - Press in Type											
8X-87C	3	#10-32x5/16 Fill. Hd. Sc.											
GBM-1012	2	Brush - Main											
GBM-1013	1	Brush - Third											
X-195	3	#8 Lock Washer											
8X-305	3	#8-32x1/4 Rd. Hd. Screw											
<u>Armature Assembly &amp; Parts Used With</u>													
GBM-21	1	Armature Shaft Nut					Assembly No.		Drive Pulley				
GBM-2006F	1	Armature Assembly					GBM-4603		SP-153				
GAR-171	1	Snap Ring					GBM-4603A		SP-154				
GR-32	1	Felt Washer Retainer					GBM-4603B		SP-1174				
*	1	Drive Pulley					GBM-4603H		None				
X-260	1	#5 Woodruff Key											
X-864	1	.669 Lock Washer											
		1	2	3	4	5							

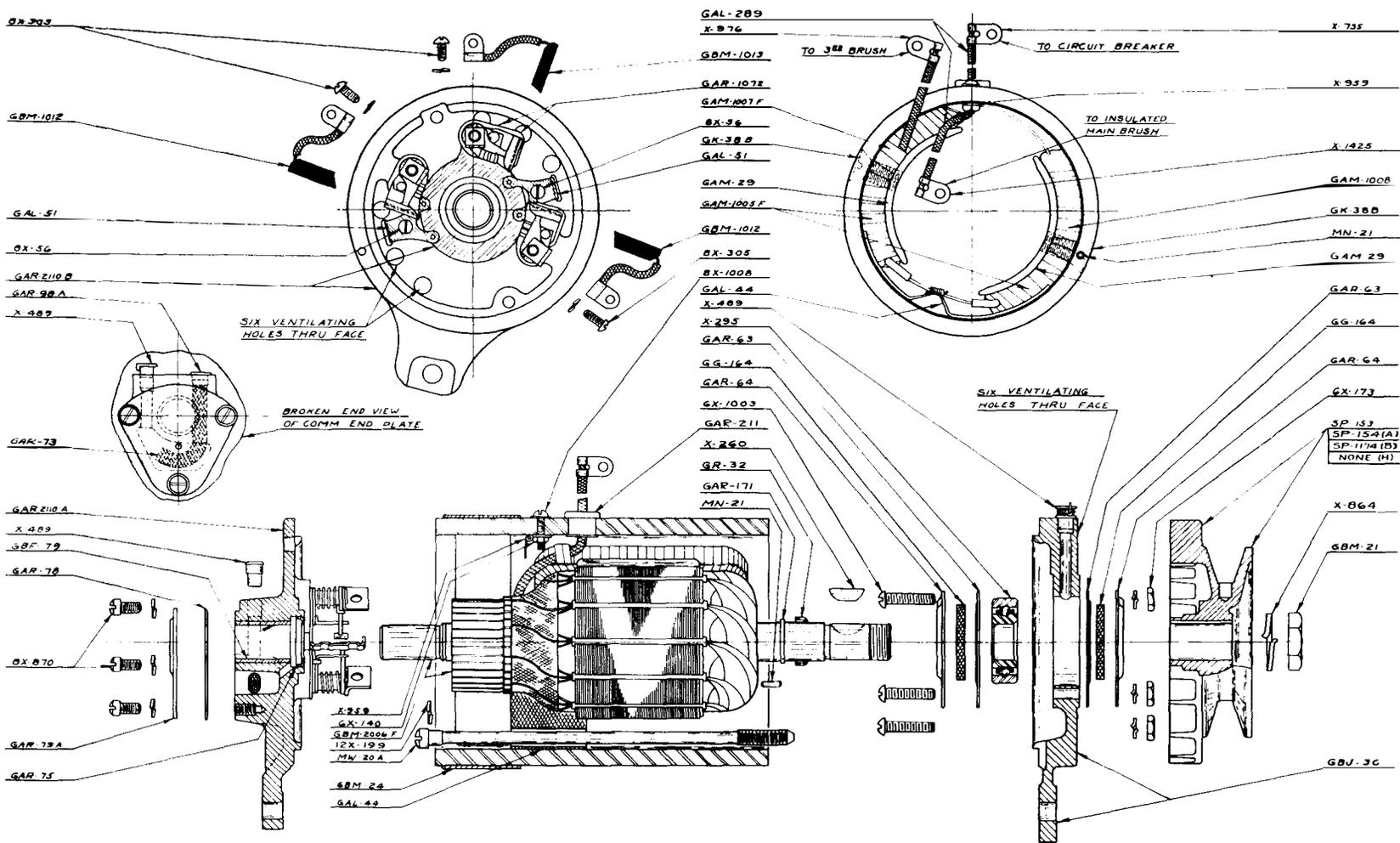
\* See table following parts list for part number applying to assembly wanted.

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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."

# GBM-4603 & A - H GENERATOR ILLUSTRATION



# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBM-4604 GENERATOR PARTS LIST  
-A-B

GBM-4604  
-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
GAL-225	1	Fuse Cover					*	1	Armature Shaft Spacer				
(GAM-2097)	1	Frame & Field Assy.					GBM-21	1	Armature Shaft Nut				
GAL-44	1	Field Connection Ins.					GBM-2006B	1	Armature Assembly				
GAL-1224	1	Fuse Holder					GAR-171	1	Snap Ring				
GAM-29	2	Pole Piece					GR-32	1	Felt Washer Retainer				
GAM-1005G	1	Field Coil Assy.-Comp.					*	1	Drive Pulley				
GAM-1007E	1	Field Coil Assy.-Left					X-260	1	#5 Woodruff Key				
GAL-289	1	C.B. Lead Assy.					X-864	1	.669 Lock Washer				
X-755	1	Terminal					<u>Drive End Head Assembly &amp; Parts Used With</u>						
X-1425	1	Terminal					GBJ-1003	1	Drive End Head Assy.				
X-976	1	Terminal					GAR-63	2	Felt Guard				
GAM-1008A	1	Field Coil Assy.-Right					GAR-64	2	Bearing Retainer				
X-976	1	Terminal					GBJ-3	1	D.E. Head				
GAR-211	1	Insulating Bushing					GG-164	2	Felt Washer				
GK-38	2	Pole Piece Screw					6X-173	3	#10-32 Hex. Nut				
MN-21	2	Dowel Pin					X-196	3	#10 Lock Washer				
8X-59	1	#8-32x3/16 Rd. Hd. Screw					X-295	1	Ball Brg. - S.A.E. #203				
X-195	1	#8 Lock Washer					X-489	1	1/4 Oiler - Press in Type				
GJ-20	2	Frame Screw					6X-1003	3	#10-32x7/8 Rd. Hd. Sc.				
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 &amp; Parts Used With</u>						CB-123	1	Armature Spring					
(GAR-2110)	1	Comm. End Plate Assy.					CB-160	1	C.B. Cover				
GAL-51	2	3rd Brush Plate Retain'g Spring					PX-55	1	#10-32x3/16 Bdg. Hd. Sc.				
GAR-73	1	Oil Wick					X-196	3	#10 Lock Washer				
GAR-75	1	Oil Guard					8X-312	2	#10-32x1/4 Rd. Hd. Sc.				
GAR-78	1	Gasket					GAL-1024	1	Head Band Assembly				
GAR-79	1	C.E. Cap Cover					X-196	2	#10 Lock Washer				
GAR-98	1	Wick Cover					8X-321	2	#10-32x5/16 Rd. Hd. Sc.				
GAR-1012‡	2	Brush - Main					X-715	1	#10-32x1 1/4 Rd. Hd. Sc.				
GAR-1072	1	3rd Br. Holder Plate Assy.					8X-794	1	#10-32 Square Nut				
GAR-1110A	1	C.E. Plate Part Assy.							1	2	3	4	5
GBF-79	1	Absorbent Bronze Brg.					(Issued 9-1-37)						
GBJ-1013‡	1	Brush - Third					Assembly No.	Armature Shaft Spacer	Drive Pulley				
8X-56	2	#8-32x7/16 Rd. Hd. Screw					GBM-4604		GAM-90				
X-195	1	#8 Lock Washer					GBM-4604A		None				
X-196	3	#10 Lock Washer					GBM-4604B		None				
8X-305	1	#8-32x1/4 Rd. Hd. Screw							None				
X-489	1	1/4 Oiler - Press in Type							None				
8X-870	3	#10-32x5/16 Fill. Hd. Se.							None				
X-195	2	#8 Lock Washer							None				
8X-305	2	#8-32x1/4 Rd. Hd. Screw							None				

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

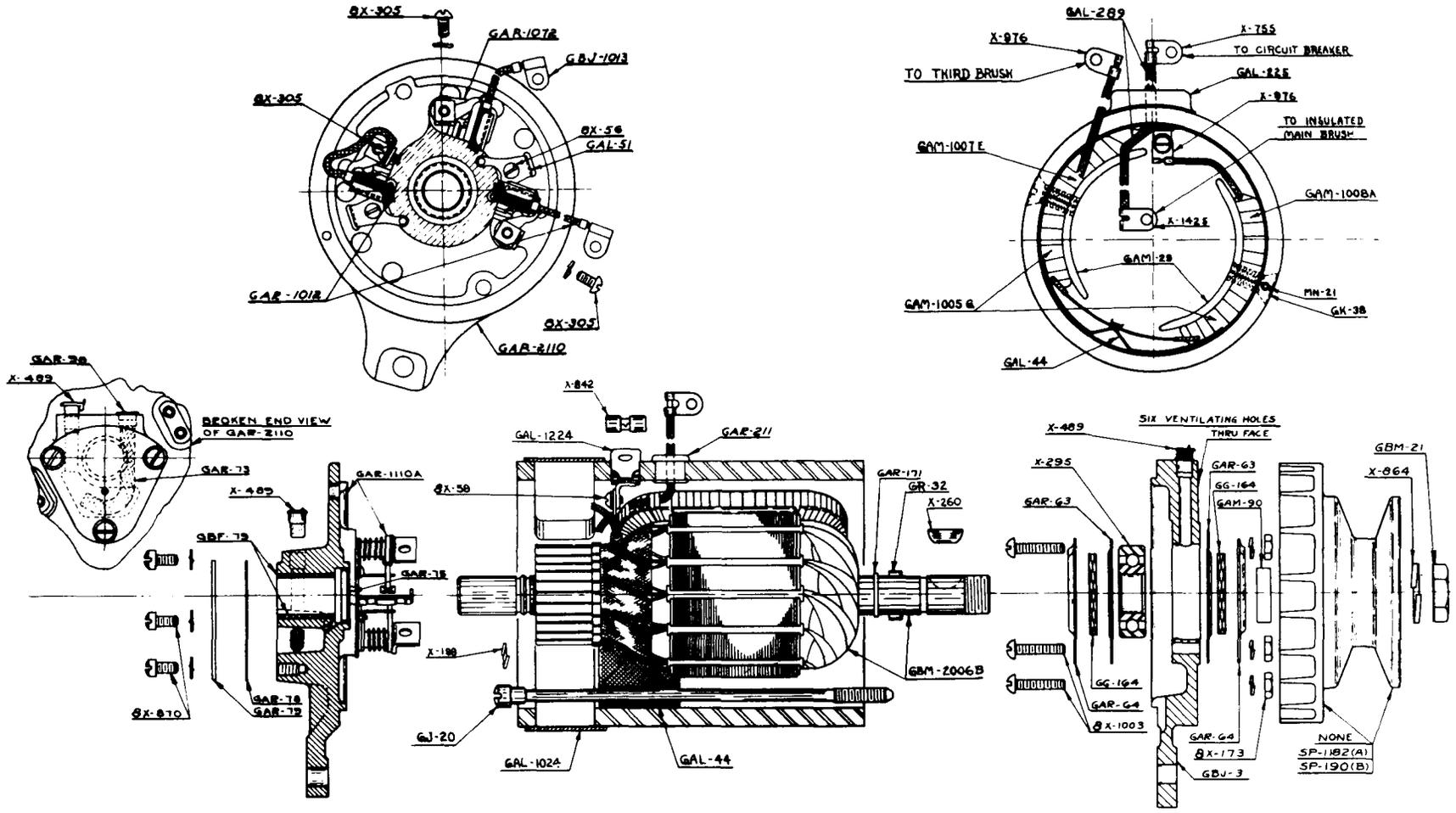
‡ Service Brush Set GAR-2012S.

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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."

GBM-4604,A,B GENERATOR ILLUSTRATION



# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBM-4606, GENERATOR PARTS LIST  
A, B, C

GBM-4606,  
A, B, C

PRELIMINARY

## Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
(GAM-2096)	1	Frame & Field Assy.				
GAL-44	1	Field Connection Ins.				
GAM-29	2	Pole Piece				
GAM-1005F	1	FIELD COIL ASSY.-Comp.				
GAM-1007E	1	Field Coil Assy.-Left				
GAL-289	1	C.B. Lead Assy.				
X-755	1	Terminal				
X-1425	1	Terminal				
X-976	1	Terminal				
GAM-1008	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. Sc.				
MW-20A	2	Frame Screw				
12X-199	2	1/4 Lock Washer				

## Comm. End Plate Assembly & Parts Used With

(GAR-2194)	1	Comm. End Plate Assy.				
GAR-73	1	Oil Wick				
GAR-98A	1	Wick Cover				
GAR-1014A	1	3rd Br. Holder Plate Assembly				
GAR-1194A	1	C.E. Plate Part Assy.				
GBF-79	1	ABSORBENT BRONZE BEARING				
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-1068B	1	Comm. End Cap Cover				
GCJ-51	1	3rd Br. Plate Retaining Spring				
12X-195	5	#8 Lock Washer				
8X-305	1	#8-32x1/4 Rd. Hd. Sc.				
8X-311	1	#10-32x3/8 Rd. Hd. Sc.				
8X-888	4	#8-32x5/16 Fill. Hd. Sc.				
X-195	2	#8 Lock Washer				
8X-305	2	#8-32x1/4 Rd. Hd. Screw.				
		1	2	3	4	5

## Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GEM-21	1	Armature Shaft Nut				
GBM-2065F	1	ARMATURE ASSEMBLY				
GAR-171	1	Snap Ring				
GR-32	1	Felt Washer Retainer				
*	1	Drive Pulley				
X-260	1	#5 Woodruff Key				
X-864	1	.669 Lock Washer				

## Drive End Head Assembly & Parts Used With

GBJ-1003C	1	Drive End Head Assy.				
GAR-63	2	Felt Guard				
GAR-64	2	Bearing Retainer				
GBJ-3C	1	Drive End Head				
GG-164	2	Felt Washer				
8X-173	3	#10-32 Hex. Nut				
X-196	3	#10 Lock Washer				
X-295	1	BALL BRG. - S.A.E. #203				
X-489	1	1/4 Oiler-Press in Type				
8X-1003	3	#10-32x7/8 Rd. Hd. Sc.				

## 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. Sc.				
GEM-24	1	Head Band				
8X-321	2	#10-32x5/16 Rd. Hd. Screw				
8X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
8X-794	1	#10-32 Square Nut				
X-1270	2	#10 Skpf. Washer				
		1	2	3	4	5

(Issued 4-25-41)

Assembly No.	Drive Pulley
GEM-4606	None
GEM-4606A	SP-1174
GEM-4606B	SP-1220
GEM-4606C	SP-1234

† Service BRUSH SET GEM-2012AS.

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

UNIT	APPLICATION
GBM-4606	
GBM-4606A	Dodge, Plymouth
GBM-4606B	Plymouth Truck
GBM-4606C	Dodge, Plymouth

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# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBM-4607A,B GENERATOR PARTS LIST

GBM-4607A,B

Frame & Field Assy. & 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-225	1	Fuse Cover					GBM-21	1	Armature Shaft Nut				
(GAM-2097)	1	Frame & Field Assy.					GBM-2065B	1	Armature Assy.				
GAL-44	1	Field Connection Ins.					GAR-171	1	Snap Ring				
GAL-1224	1	Fuse Holder					GR-32	1	Felt Washer Retainer				
GAM-29	2	Pole Piece					*	1	Drive Pulley				
GAM-1005G	1	Field Coil Assy.-Comp.					X-260	1	#5 Woodruff Key				
GAM-1007E	1	Field Coil Assy.-Left					X-864	1	.669 Lock Washer				
GAL-289	1	C. B. Lead Assy.					<u>Drive End Head Assy. &amp; Parts Used With</u>						
X-755	1	Terminal					GBJ-1003	1	Drive End Head Assy.				
X-1425	1	Terminal					GAR-63	2	Felt Guard				
X-976	1	Terminal					GAR-64	2	Bearing Retainer				
GAM-1008A	1	Field Coil Assy.-Right					GBJ-3	1	D. E. Head				
X-976	1	Terminal					GG-164	2	Felt Washer				
GAR-211	1	Insulating Bushing					6X-173	3	#10-32 Hex. Nut				
GK-38	2	Pole Piece Screw					X-196	3	#10 Lock Washer				
MN-21	2	Dowel Pin					X-295	1	Ball Brg. - S.A.E. #203				
SX-59	1	#8-32x3/16 Rd. Hd. Sc.					X-489	1	1/4 Oiler - Press in Type				
X-195	1	#8 Lock Washer					6X-1003	3	#10-32x7/8 Rd. Hd. Sc.				
GJ-20	2	Frame Screw					<u>Miscellaneous Parts</u>						
X-199	2	1/4 Lock Washer					CB-4021	1	Circuit Breaker Assy.				
X-842	1	Fuse - 5 Amperes					CB-123	1	Armature Spring				
<u>Comm. End Plate Assy. &amp; Parts Used With</u>						CB-160S	1	C. B. Cover					
(GAR-2194C)	1	Comm. End Plate Assy.					PX-55	1	#10-32x3/16 Bdg. Hd. Sc.				
GAR-73	1	Oil Wick					X-196	3	#10 Lock Washer				
GAR-98	1	Wick Cover					8X-312	2	#10-32x1/4 Rd. Hd. Sc.				
GAR-1014A	1	3rd Brush Holder Plate					GAL-1024	1	Head Band Assy.				
		Assy.					X-196	2	#10 Lock Washer				
GAR-1194D	1	Comm. End Plate Part Assy.					8X-321	2	#10-32x5/16 Rd. Hd. Screw				
GBF-79	1	Absorbent Bronze Brg.					X-714	1	#10-32x1 1/2 Rd. Hd. Screw				
GBM-1012A†	2	Brush - Main					8X-794	1	#10-32 Square Nut				
GBM-1013A†	1	Brush - Third							1	2	3	4	5
GBW-69	1	Gasket					(Issued 11-16-38)						
GBW-72	1	Oil Guard					Assy. No.	Drive Pulley					
GBW-73	1	Oil Retaining Gasket					GBM-4607A	SP-1182					
GBW-1068B	1	Comm. End Cap Cover					GBM-4607B	SP-190					
GCJ-51	1	3rd Brush Plate Retaining											
		Spring											
X-195	5	#8 Lock Washer											
SX-305	1	#8-32x1/4 Rd. Hd. Screw											
SX-311	1	#10-32x3/8 Rd. Hd. Screw											
SX-888	4	#8-32x5/16 Fill. Hd. Sc.											
X-195	2	#8 Lock Washer											
SX-305	2	#8-32x1/4 Rd. Hd. Screw											
		1	2	3	4	5							

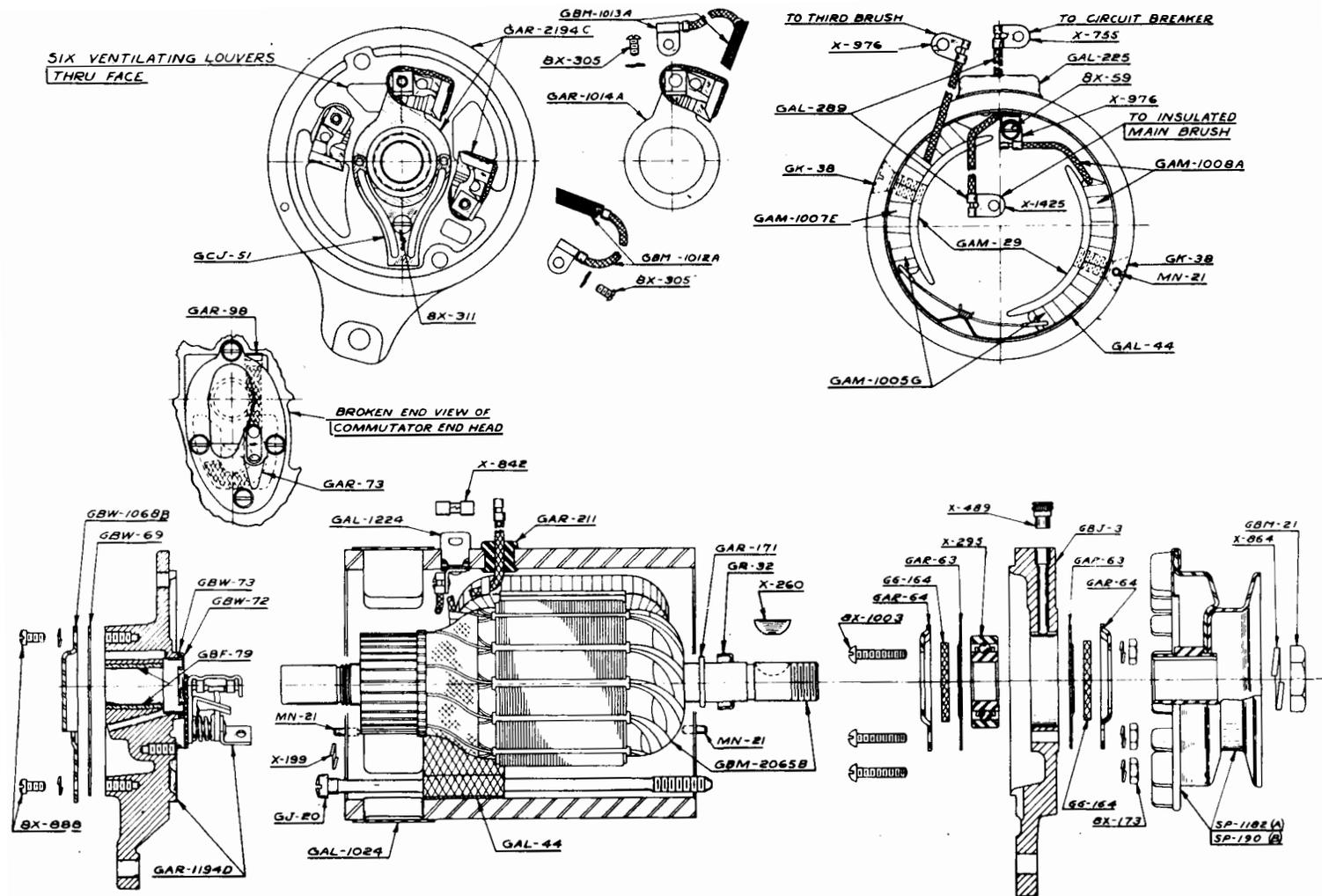
† Service Brush Set GBM-2012AS.

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

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GBM-4607A,B GENERATOR ILLUSTRATION

# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBM-4608A, GENERATOR PARTS LIST  
B,C,D

GBM-4608A,  
B,C,D

## Frame & Field Assy. & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
(GAM-2095)	1	Frame & Field Assy.				
GAL-44	1	Field Connection Ins.				
GAM-29	2	Pole Piece				
GAM-1005F	1	FIELD COIL ASSY.- COMP.				
GAM-1007E	1	Field Coil Assy.-Left				
GAL-289	1	C.B. Lead Assy.				
X-755	1	Terminal				
X-1425	1	Terminal				
X-976	1	Terminal				
GAM-1008	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				
GJ-20	2	Frame Screw				
X-199	2	1/4 Lock Washer				

## Comm. End Plate Assy. & Parts Used With

(GAR-2194C)	1	Comm. End Plate Assy.				
GAR-73	1	Oil Wick				
GAR-98	1	Wick Cover				
GAR-1014A	1	3rd Brush Holder Plate Assy.				
GAR-1194D	1	C.E. Plate Part Assy.				
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-1068B	1	Comm. End Cap Cover				
GCJ-51	1	3rd Brush Plate Retaining Spring				
X-195	5	#8 Lock Washer				
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.				
X-195	2	#8 Lock Washer				
8X-305	2	#8-32x1/4 Rd. Hd. Screw				
		1	2	3	4	5

## Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GBM-21	1	Armature Shaft Nut				
GEM-2065	1	ARMATURE ASSEMBLY				
GAR-171	1	Snap Ring				
GR-32	1	Felt Washer Retainer				
**	1	Drive Pulley				
X-260	1	#5 Woodruff Key				
X-864	1	.669 Lock Washer				

## Drive End Head Assy. & Parts Used With

GBJ-1003	1	Drive End Head Assy.				
GAR-63	2	Felt Guard				
GAR-64	2	Bearing Retainer				
GBJ-3	1	D.E. Head				
GG-164	2	Felt Washer				
8X-173	3	#10-32 Hex. Nut				
X-196	3	#10 Lock Washer				
X-295	1	BALL BRG.- S.A.E. #203				
X-489	1	1/4 Oiler - Press in Type				
8X-1003	3	#10-32x7/8 Rd. Hd. Sc.				

## 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. Sc.				
GAL-1024	1	Head Band Assembly				
X-196	2	#10 Lock Washer				
8X-321	2	#10-32x5/16 Rd. Hd. Screw				
X-714	1	#10-32x1 1/2 Rd. Hd. Screw				
8X-794	1	#10-32 Square Nut				
		1	2	3	4	5

(Issued 5-23-39)

Assembly No.	Drive Pulley
GBM-4608A	SP-150
GBM-4608B	SP-149
GBM-4608C	SP-242
GBM-4608D	SP-254

\* Service BRUSH SET GEM-2012AS.

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

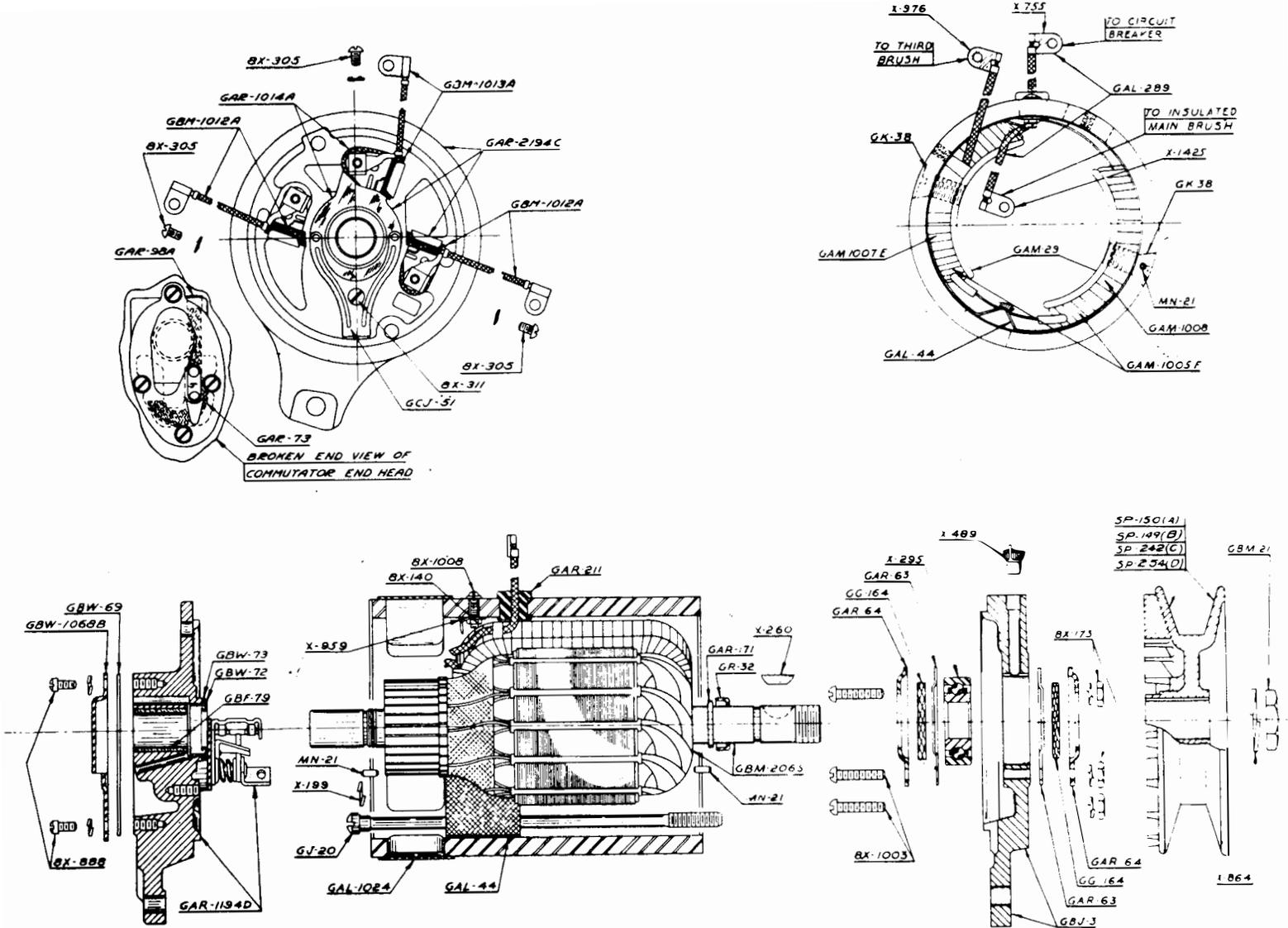
UNIT	APPLICATION
GBM-4608A, B,C,D	Reo

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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."

GBM-4608A,B,C,D GENERATOR ILLUSTRATION



# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBM-4609A GENERATOR PARTS LIST

GBM-4609A

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
(GAM-2104)	1	Frame & Field Assy.				
GAA-30	1	Terminal Post Bottom Ins.				
GAA-32	1	Terminal Post Top Ins.				
GAL-44	1	Field Connection Ins.				
GAM-29	2	Pole Piece				
GAM-1005K	1	Field Coil Assy. Comp.				
GAM-1007G	1	Field Coil Assy.-Left				
X-976	1	Terminal				
GAM-1008	1	Field Coil Assy.-Right				
X-959	1	Terminal				
GCE-26	1	Control Lead				
GCE-34	1	Terminal Post				
X-847	1	Terminal				
GCT-25	1	Insulating Bushing				
GK-38	2	Pole Piece Screw				
MN-21	2	Dowel Pin				
8X-140	1	#6-32 Hex. Nut				
5X-177	1	#14-24 Hex. Nut				
X-193	1	#14 Lock Washer				
X-194	1	#6 Lock Washer				
8X-361	1	1/4 Plain Washer				
8X-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

(GAR-2194B)	1	Comm. End Plate Assy.				
GAR-73	1	Oil Wick				
GAR-98	1	Wick Cover				
GAR-1014A	1	3rd Brush Holder Plate Assembly				
GAR-1194C	1	Comm. End Plate Part Assy				
GBF-79	1	Absorbent Bronze Brg.				
GBM-1012A†	2	Brush - Main				
GBM-1013A†	1	Brush - Third				
GBW-30A	1	Comm. End Cap Cover				
GBW-31	1	Gasket				
GBW-72	1	Oil Guard				
GBW-73	1	Oil Retaining Gasket				
GCJ-51	1	3rd Brush Plate Retaining Spring				
X-195	5	#8 Lock Washer				
8X-305	1	#8-32x1/4 Rd. Hd. Screw				
8X-311	1	#10-32x3/8 Rd. Hd. Screw				
X-489	1	1/4 Oiler - Press in Type				
8X-888	4	#8-32x5/16 Fill. Hd. Sc.				
X-195	2	#8 Lock Washer				
8X-305	2	#8-32x1/4 Rd. Hd. Screw				
		1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GBM-21	1	Armature Shaft Nut				
GBM-2065	1	Armature Assy.				
GAR-171	1	Snap Ring				
GR-32	1	Felt Washer Retainer				
SP-1178	1	Drive Pulley				
X-260	1	#5 Woodruff Key				
X-864	1	.669 Lock Washer				

Drive End Head Assembly & Parts Used With

GBJ-1003	1	Drive End Head Assy.				
GAR-63	2	Felt Guard				
GAR-64	2	Bearing Retainer				
GBJ-3	1	D.E. Head				
GG-164	2	Felt Washer				
6X-173	3	#10-32 Hex. Nut				
X-196	3	#10 Lock Washer				
X-295	1	Ball Brg. - S.A.E. #203				
X-489	1	1/4 Oiler - Press in Type				
6X-1003	3	#10-32x7/8 Rd. Hd. Sc.				

Miscellaneous Parts

GAL-1024	1	Head Band Assembly				
X-715	1	#10-32x1 1/4 Rd. Hd. Sc.				
8X-794	1	#10-32 Square Nut				
		1	2	3	4	5

(Issued 10-19-38)

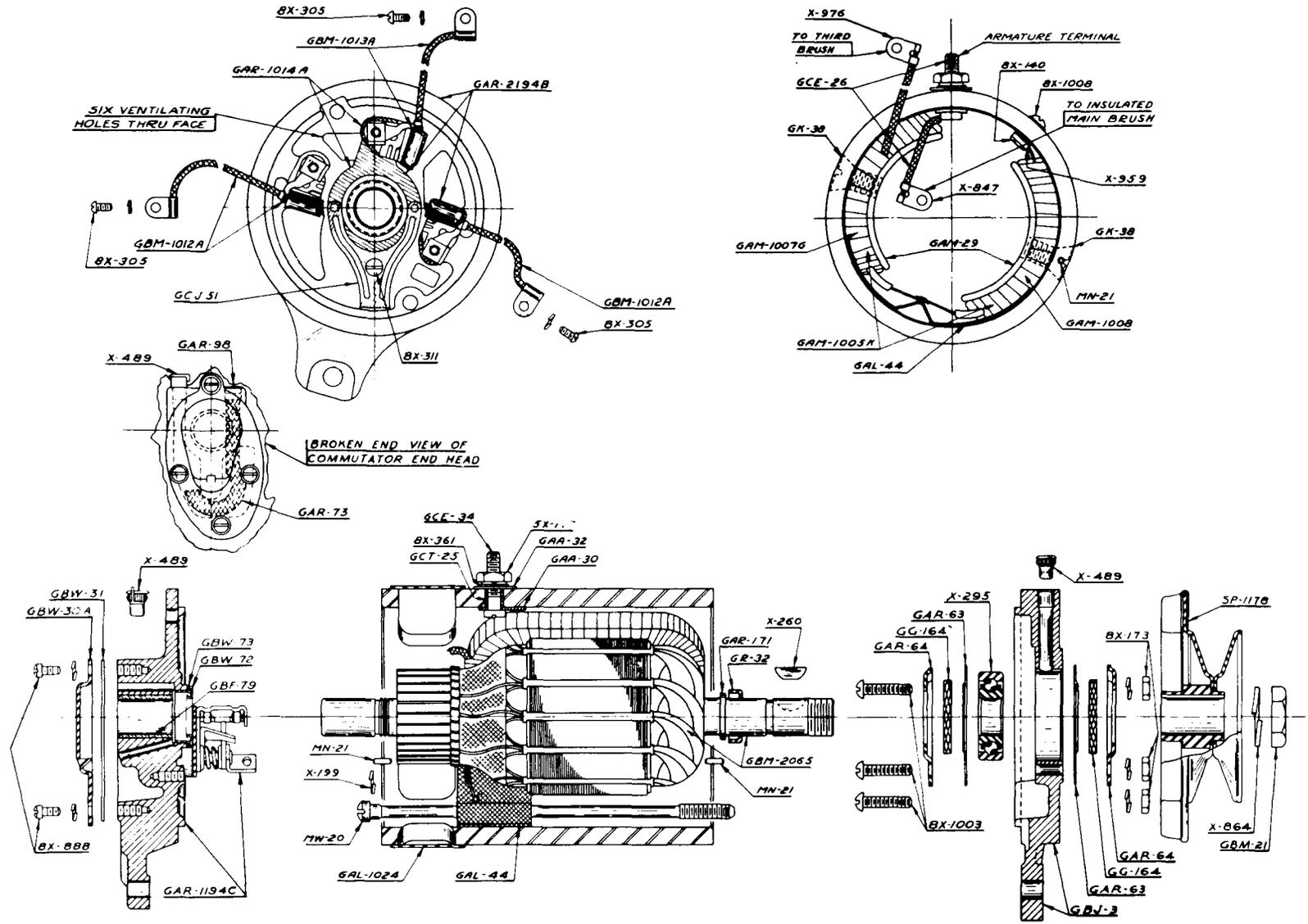
NOTE:- CBA-4003 Circuit Breaker is used with but is not a part of this generator.

† Service Brush Set GBM-2012AS

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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."



GBM-4609A GENERATOR ILLUSTRATION

# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBM-4610-5S1, A-5, B-5, C-5 GENERATOR PARTS LIST

GBM-4610-5S1,  
A-5, B-5, C-5  
(Issued 1-28-52)

<u>Frame &amp; Field Assembly &amp; Parts Used With</u>		
Part No.	No. Used	Name of Part
GAM-2107	1	Frame & Field Assy.
GAL-44	1	Insulation, Field Connection
GAM-1005M	1	COIL ASSY., FIELD, COMPLETE
GAM-1007E	1	Coil Assy., Field, Left
GAL-289	1	Lead Assy.
X-755	1	Terminal
X-1425	1	Terminal
X-976	1	Terminal
GAM-1008D	1	Coil, Field, Right
GCE-27	1	Stud, Terminal, #10-32
GAR-211	1	Bushing, Lead Ins.
GBW-34	1	Washer, Ins., Term. Stud
GBW-67	1	Insulation, Term. Stud, Inner
GCY-25	1	Bushing, Ins., Term. Stud
GK-38	2	Screw, Pole Shoe
MN-21	2	Pin, Dowel
12X-196	2	Lockwasher, Term. Stud, #10
8X-349	1	Washer, Term. Stud, Plain #10
8X-1377	2	Nut, Term. Stud, Hex. #10-32
MW-20A	2	Bolt, Thru
12X-199	2	Lockwasher, Thru Bolt, 1/4
<u>Comm. End Head Assembly &amp; Parts Used With</u>		
GAR-2236	1	Head Assy., Comm. End
GAR-73	1	Wick, Felt
GAR-98A	1	Cover, Wick
GAR-1014A	1	Plate, 3rd. Brush
GAR-1236A	1	Head Assy., Partial, C.E.
GBF-79	1	BEARING, ABS BRONZE
GBM-1012C†	2	Brush, Main
GBM-1013C†	1	Brush, Third
GBW-69	1	Gasket, Cover
GBW-72	1	Oil Guard
GBW-73	1	Gasket, Oil Guard
GBW-1068	1	Cover, Comm. End
GCJ-51	1	Spring, Retaining, 3rd Brush Plate
12X-195	4	Lockwasher, Cover Sc., #8
8X-311	1	Screw, Rd. Hd. #10-32x3/8
8X-888	4	Screw, Cover, Fill. Hd. #8-32x5/16
12X-195	3	Lockwasher, Lead Sc., #8
8X-305	3	Screw, Brush Lead, Rd. Hd. #8-32x1/4

<u>Armature Assembly &amp; Parts Used With</u>		
Part No.	No. Used	Name of Part
GBM-21B	1	Nut, Armature Shaft, D. E.
GBM-2065F	1	ARMATURE ASSY.
GAR-171	1	Snap Ring
GR-32	1	Retainer, Felt Washer
*	1	Pulley, Drive
X-260	1	Key, Woodruff, #5
12X-864	1	Lockwasher, Arm. Shaft, D. E.

<u>Drive End Head Assy. &amp; Parts Used With</u>		
GAM-1101	1	Head Assy., Drive End
GAM-34A	1	Retainer, Felt Washer, Outer
GAM-101	1	Head, Drive End
GAR-63	1	Retainer, Felt Washer, Inner
GAR-64	1	Retainer, Bearing
GG-164	2	Washer, Felt
GGW-52	3	Screw, Retainer, Rd. Hd. #10-32x1/2
12X-196	3	Lockwasher, Retainer Sc., #10
X-295	1	BEARING, BALL, S. A. E. #203
X-489	1	Oiler

### 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
GAL-1024F	1	Band, Head
8X-321	2	Screw, Relay Mtg., Rd. Hd. #10-32x5/16
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32
X-1270	2	Washer, Relay Mtg. Sc., Skpf. #10

† BRUSH SET SERVICE GBM-2012DS.

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

(Continued on Reverse Side)

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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

GBM-4610-5S1, A-5, B-5, C-5 GENERATOR PARTS (Cont.)

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Assembly No.	Pulley
GBM-4610-5S1	None
GBM-4610A-5	SP-1344
GBM-4610B-5	SP-1723
GBM-4610C-5	SP-782

UNIT	APPLICATION
GBM-4610-5S1	Service Gen.
GBM-4610A-5	Chrys. Ind., Co-Op Massey Harris
GBM-4610B-5	Chrysler Ind.
GBM-4610C-5	Chrys. Ind., Co-Op Massey Harris

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# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBM-4611A GENERATOR PARTS LIST

GBM-4611A

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-2096)	1	Frame & Field Assy.					GBM-21	1	Nut, Armature Shaft				
GAL-44	1	Insulation, Field Connection					GBM-2065F	1	Armature Assy.				
GAM-1005F	1	Coil Assy., Field, Comp.					GAR-171	1	Snap Ring				
GAM-1007E	1	Coil Assy., Field, Left					GR-32	1	Retainer, Felt Washer				
GAL-289	1	Lead Assy.					SP-1344	1	Pulley, Drive				
X-755	1	Terminal					X-260	1	Key, Woodruff, #5				
X-1425	1	Terminal					X-864	1	Washer, Lock, Arm. Shaft, .669				
X-976	1	Terminal					<u>Drive End Head Assembly &amp; Parts Used With</u>						
GAM-1008	1	Coil Assy., Field, Right					GAM-1101	1	Head Assy., Drive End				
X-959	1	Terminal					GAM-34	1	Retainer, Felt Washer, Outer				
GAR-211	1	Bushing, Insulating					GAM-101	1	Head				
GK-38	2	Screw, Pole Shoe					GAR-63	1	Retainer, Felt Washer, Inner				
MN-21	2	Pin, Dowel, Head Locating					GAR-64	1	Retainer, Bearing				
8X-140	1	Nut, Field Ground, Hex., #6-32					GG-164	2	Washer, Felt				
X-194	1	Washer, Lock, Field Ground, #6					X-196	3	Washer, Lock, Retainer Sc., #10				
8X-1008	1	Screw, Field Ground, Rd. hd., #6-32x9/16					X-295	1	Bearing, Ball, S.A.E. #203				
MW-20A	2	Bolt, Thru					8X-311	3	Screw, Retainer, Rd. hd., #10-32x3/8				
12X-199	2	Washer Lock, Thru Bolt, 1/4					X-489	1	Oiler, Hinge Top, Press in, 1/4				
<u>Comm. End Head Assembly &amp; Parts Used With</u>					<u>Miscellaneous Parts</u>								
(GBM-2236)	1	Head Assy., Comm. End					CB-4014	1	Relay Assy., Cutout				
GAR-73	1	Wick, Felt					CB-123	1	Spring, Armature				
GAR-98A	1	Cover, Wick					CB-160S	1	Cover				
GAR-1014A	1	Plate, 3rd Brush					PX-55	1	Screw, Arm. Term., Bdg. hd., #10-32x3/16				
GAR-1236A	1	Head Assy., Partial, C.E.					X-196	2	Washer, Lock, Term. Sc., #10				
GBF-79	1	Bearing, Absorbent Bronze					8X-312	1	Screw, Bat. Term., Rd. hd., #10-32x1/4				
GBM-1012A†	2	Brush, Main					GAL-1024C	1	Band, Cover				
GBM-1013B†	1	Brush, Third					8X-321	2	Screw, Mtg., Cutout Relay, Rd. hd., #10-32x5/16				
GBW-69	1	Gasket, C.E. Cover					8X-715	1	Screw, Cover Band, Rd. hd., #10-32x1 1/4				
GBW-72	1	Oil Guard					8X-794	1	Nut, Cover Band, Square, #10-32				
GBW-73	1	Gasket, Oil Guard					X-1270	2	Washer, Skpf., Cutout Relay Mtg., #10				
GBW-1068B	1	Cover, Comm. End							1	2	3	4	5
GCJ-51	1	Spring, Retaining, 3rd Brush Plate							(Issued 3-13-44)				
12X-195	4	Washer, Lock, Cover Sc., #8											
8X-311	1	Screw, Plate Retaining, Rd. hd., #10-32x3/8											
8X-888	4	Screw, Cover, Fil. hd., #8-32x5/16											
X-195	3	Washer, Lock, Brush Lead, #8											
8X-305	3	Screw, Brush Lead, Rd. hd., #8-32x1/4											
		1	2	3	4	5							

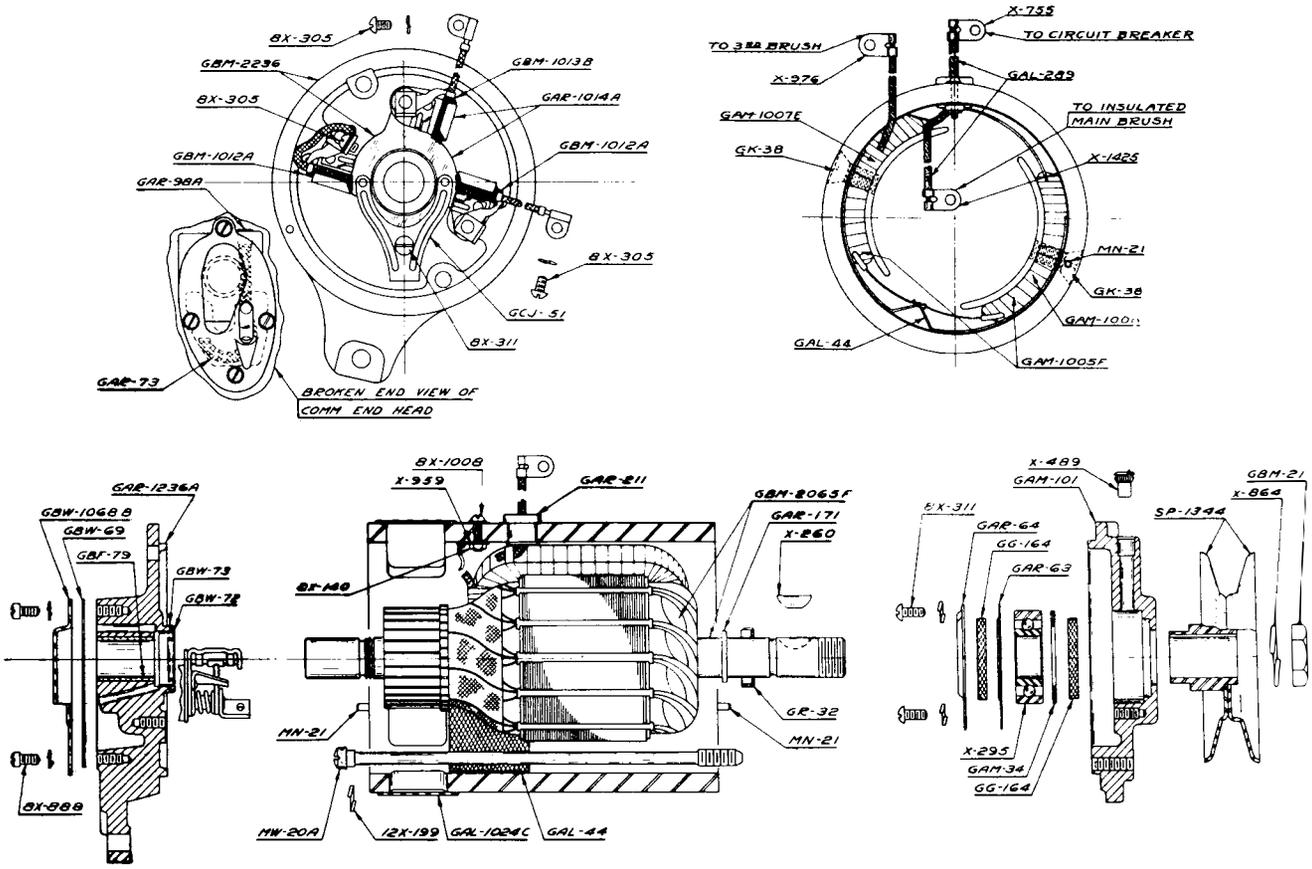
† Brush Set, Service, GBM-2012BS.

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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."

GBM-4611A GENERATOR ILLUSTRATION



# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GEM-4612A GENERATOR PARTS LIST

GBM-4612A

Frame & Field Assy. & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
(GAM-2105)	1	Frame & Field Assy.				
GAA-30	1	Term. Post Bottom Ins.				
GAA-32	1	Term. Post Top Ins.				
GAL-44	1	Field Connection Ins.				
GAM-29	2	Pole Piece				
GAM-1005K	1	Field Coil Assy.-Comp.				
GAM-1007G	1	Field Coil Assy.-Left				
X-976	1	Terminal				
GAM-1008	1	Field Coil Assy.-Right				
X-959	1	Terminal				
GCE-26	1	Control Lead				
GCE-34	1	Terminal Post				
X-847	1	Terminal				
GCT-25	1	Insulating Bushing				
GK-38	2	Pole Piece Screw				
MN-21	2	Dowel Pin				
8X-140	1	#6-32 Hex. Nut				
5X-177	1	#14-24 Hex. Nut				
X-193	1	#14 Lock Washer				
X-194	1	#6 Lock Washer				
8X-361	1	1/4 Plain Washer				
8X-1008	1	#6-32x9/16 Rd. Hd. Screw				
MW-20	2	Frame Screw				
5X-177	1	#14-24 Hex. Nut				
X-193	1	#14 Lock Washer				
X-199	2	1/4 Lock Washer				

Comm. End Plate Assy. & Parts Used With

(GAR-2239)	1	Comm. End Plate Assy.				
GAR-73	1	Oil Wick				
GAR-98A	1	Wick Cover				
GAR-1014A	1	3rd Brush Holder Plate Assembly				
GAR-1239A	1	Comm. End Plate Part Assy.				
GBF-79	1	Absorbent Bronze Brg.				
GEM-1012A†	2	Brush - Main				
GEM-1013A†	1	Brush - Third				
GBW-69	1	Gasket				
GBW-72	1	Oil Guard				
GBW-73	1	Oil Retaining Gasket				
GBW-1068B	1	Comm. End Cap Cover				
GCJ-51	1	3rd Brush Plate Retaining Spring				
X-195	5	#8 Lock Washer				
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. Screw				
X-195	2	#8 Lock Washer				
8X-305	2	#8-32x1/4 Rd. Hd. Screw				
		1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GBM-21	1	Armature Shaft Nut				
GBM-2065	1	Armature Assembly				
GAR-171	1	Snap Ring				
GR-32	1	Felt Washer Retainer				
SP-1350	1	Drive Pulley				
X-260	1	#5 Woodruff Key				
X-864	1	.669 Lock Washer				

Drive End Head Assy. & Parts Used With

GCJ-1096	1	Drive End Head Assy.				
GAR-63	2	Felt Guard				
GAR-64	2	Bearing Retainer				
GCJ-96	1	Drive End Head				
GG-164	2	Felt Washer				
X-173	3	#10-32 Hex. Nut				
X-295	1	Ball Brg. - S.A.E. #203				
X-489	1	1/4 Ciler - Press in Type				
8X-1003	3	#10-32x7/8 Rd. Hd. Screw				
X-1270	3	#10 Skpf. Lock Washer				

Miscellaneous Parts

GAL-1024	1	Head Band Assy.				
X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
8X-794	1	#10-32 Square Nut				
		1	2	3	4	5

(Issued 11-17-38)

† Service Brush Set GEM-2012AS.

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



# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBM-4613A GENERATOR PARTS LIST

GBM-4613A

PRELIMINARY

<u>Frame &amp; Field Assembly &amp; Parts Used With</u>					<u>Armature Assembly &amp; Parts Used With</u>										
Part No.	No. Used	Name of Part	1	2	3	4	5	Part No.	No. Used	Name of Part	1	2	3	4	5
GAL-225	1	Fuse Cover						GBM-21	1	Armature Shaft Nut					
(GAM-2097)	1	Frame & Field Assembly						GBM-2065	1	ARMATURE ASSEMBLY					
GAL-44	1	Field Connection Ins.						GAR-171	1	Snap Ring					
GAL-1224	1	Fuse Holder						GR-32	1	Felt Washer Retainer					
GAM-29	2	Pole Piece						SP-1178	1	Drive Pulley					
GAM-1005G	1	FIELD COIL ASSY.- Comp.						X-260	1	#5 Woodruff Key					
GAM-1007E	1	Field Coil Assy.-Left						X-864	1	.669 Lock Washer					
GAL-289	1	C. B. Lead Assy.						<u>Drive End Head Assembly &amp; Parts Used With</u>							
X-755	1	Terminal						GBJ-1003C	1	Drive End Head Assembly					
X-1425	1	Terminal						GAR-63	2	Felt Guard					
X-976	1	Terminal						GAR-64	2	Bearing Retainer					
GAM-1008A	1	Field Coil Assy.-Right						GBJ-3C	1	Drive End Head					
X-976	1	Terminal						GG-164	2	Felt Washer					
GAR-211	1	Insulating Bushing						8X-173	3	#10-32 Hex. Nut					
GK-38	2	Pole Piece Screw						X-196	3	#10 Lock Washer					
MN-21	2	Dowel Pin						X-295	1	BALL BRG.- S.A.E. #203					
8X-59	1	#8-32x3/16 Rd. Hd. Screw						X-489	1	1/4 Oiler - Press in Type					
X-195	1	#8 Lock Washer						8X-1003	3	#10-32x7/8 Rd. Hd. Screw					
GJ-20	2	Frame Screw						<u>Miscellaneous Parts</u>							
X-199	2	1/4 Lock Washer						CB-4021	1	CIRCUIT BREAKER ASSEMBLY					
X-842	1	Fuse - 5 Amp.						CB-123	1	Armature Spring					
<u>Comm. End Plate Assembly &amp; Parts Used With</u>										CB-160S	1	C. B. Cover			
(GAR-2194C)	1	Comm. End Plate Assembly						PX-55	1	#10-32x3/16 Bdg. Hd. Sc.					
GAR-73	1	Oil Wick						X-196	3	#10 Lock Washer					
GAR-98A	1	Wick Cover						8X-312	2	#10-32x1/4 Rd. Hd. Screw					
GAR-1014A	1	3rd Brush Plate Assembly						GAL-1024	1	Head Band Assembly					
GAR-1194D	1	C. E. Plate Part Assy.						X-196	2	#10 Lock Washer					
GBF-79	1	ABSORBENT BRONZE BRG.						8X-321	2	#10-32x5/16 Rd. Hd. Screw					
GEM-1012A†	2	Brush - Main						X-714	1	#10-32x1 1/2 Rd. Hd. Screw					
GEM-1013A†	1	Brush - Third						8X-794	1	#10-32 Square Nut					
GBW-69	1	Gasket													
GBW-72	1	Oil Guard													
GBW-73	1	Oil Retaining Gasket													
GBW-1068B	1	Comm. End Cap Cover													
GCJ-51	1	3rd Brush Plate Retaining Spring													
12X-195	5	#8 Lock Washer													
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.													
X-195	2	#8 Lock Washer													
8X-305	2	#8-32x1/4 Rd. Hd. Screw													
			1	2	3	4	5								

(Issued 7-1-41)

† SERVICE BRUSH SET GBM-2012AS.

UNIT	APPLICATION
GBM-4613A	Waukesha

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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

GBM-4614A GENERATOR PARTS LIST

GBM-4614A

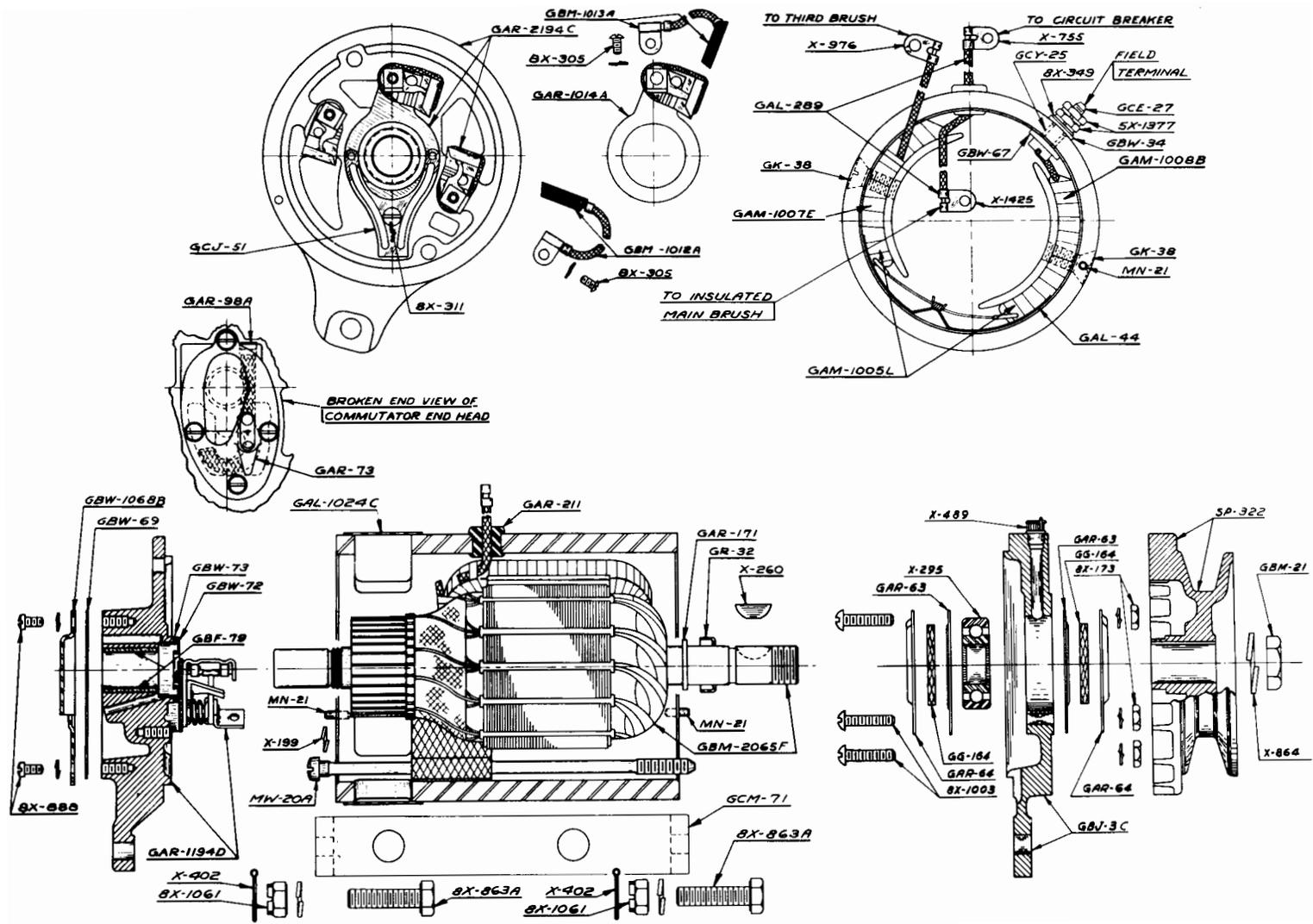
Frame & Field Assembly & Parts Used With					Comm. End Head Assembly (Continued)				
Part No.	No. Used	Name of Part			Part No.	No. Used	Name of Part		
		1	2	3 4 5			1	2 3 4 5	
(GAM-2106)	1	Frame & Field Assy.			8X-305	3	Screw, Brush Lead, Rd. hd., #8-32x1/4		
GAL-44	1	Insulation, Field Connection			<u>Armature Assembly &amp; Parts Used With</u>				
GAM-1005L	1	Coil Assy., Field, Comp.			GBM-21	1	Nut, Armature Shaft		
GAM-1007E	1	Coil Assy., Field, Left			GBM-2065F	1	Armature Assy.		
GAL-289	1	Lead Assy.			GAR-171	1	Snap Ring		
X-755	1	Terminal			GR-32	1	Retainer, Felt Washer		
X-1425	1	Terminal			SP-322	1	Pulley, Drive		
X-976	1	Terminal			X-260	1	Key, Woodruff, #5		
GAM-1008B	1	Coil, Field, Right			X-864	1	Washer, Lock, Arm. Shaft, .669		
GCE-27	1	Stud, Field Terminal, #10-32			<u>Drive End Head Assembly &amp; Parts Used With</u>				
GAR-211	1	Bushing, Insulating			GBJ-1003C	1	Head Assy., Drive End		
GBW-34	1	Washer, Insulating			GAR-63	2	Retainer, Felt Washer		
GBW-67	1	Insulation, Term. Stud, Inner			GAR-64	2	Retainer, Bearing		
GCY-25	1	Bushing, Ins., Term. Stud			GBJ-3C	1	Head		
GK-38	2	Screw, Pole Shoe			GG-164	2	Washer, Felt		
MN-21	2	Pin, Dowel, Head Locating			8X-173	3	Nut, Retainer Screw, Hex., #10-32		
X-196	2	Washer, Lock, Term. Stud, #10			X-196	3	Washer, Lock, Retainer Sc., #10		
8X-349	1	Washer, Plain, Term. Stud, #10			X-295	1	Bearing, Ball, S.A.E. #203		
5X-1377	2	Nut, Term. Stud, Hex., #10-32			X-489	1	Oiler, Hinge Top, Press in, 1/4		
GCM-71	1	Bracket, Mounting, Generator			8X-1003	3	Screw, Retainer, Rd. hd., #10-32x7/8		
MW-20A	2	Bolt, Thru			<u>Miscellaneous Parts</u>				
X-199	2	Washer, Lock, Thru Bolt, 1/4			CB-4012	1	Relay Assy., Cutout		
X-402	2	Pin, Cotter, 1/16x3/4			CB-123	1	Spring, Armature		
8X-863A	2	Screw, Mounting Bracket, Hex. hd., 5/16-24			CB-160S	1	Cover		
X-1014	2	Washer, Lock, Mtg. Bracket Screw, 5/16			PX-55	1	Screw, Arm. Term., Bdg. hd., #10-32x3/16		
8X-1061	2	Nut, Mounting Bracket Screw, Castellated, 5/16-24			X-196	2	Washer, Lock, Term. Sc., #10		
<u>Comm. End Head Assembly &amp; Parts Used With</u>					8X-312	1	Screw, Bat. Term., Rd. hd., #10-32x1/4		
(GAR-2194C)	1	Head Assy., Comm. End			GAL-1024C	1	Band, Cover		
GAR-73	1	Wick, Felt			X-196	2	Washer, Lock, Cutout Relay Mtg., #10		
GAR-98A	1	Cover, Wick			8X-321	2	Screw, Mtg., Cutout Relay, Rd. hd., #10-32x5/16		
GAR-1014A	1	Plate, 3rd Brush			X-715	1	Screw, Cover Band, Rd. hd., #10-32x1 1/4		
GAR-1194D	1	Head Assy., Partial, C.E.			8X-794	1	Nut, Cover Band, Square, #10-32		
GBF-79	1	Bearing, Absorbent Bronze					1	2 3 4 5	
GBM-1012A†	2	Brush, Main			(Issue: 3-13-44)				
GBM-1013A†	1	Brush, Third							
GBW-69	1	Gasket, C.E. Cover							
GBW-72	1	Oil Guard							
GBW-73	1	Gasket, Oil Guard							
GBW-1068B	1	Cover, Comm. End							
GCJ-51	1	Spring, Retaining, 3rd Brush Plate							
X-195	4	Washer, Lock, Cover Sc., #8							
8X-311	1	Screw, Plate Retaining, Rd. hd., #10-32x3/8							
8X-888	4	Screw, Cover, Fil hd., #8-32x5/16							
X-195	3	Washer, Lock, Brush Lead, #8							
		1	2	3 4 5					

† Brush Set, Service, GBM-2012AS.

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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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Equipment & Parts List Binder



GBM-4614A GENERATOR ILLUSTRATION

# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBM-4615A GENERATOR PARTS LIST

GBM-4615A

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
(GAM-2095)	1	Frame & Field Assy.	GBM-21B	1	Nut, Armature Shaft, D.E.
GAL-44	1	Insulation, Field Connection	GBM-2006F	1	ARMATURE ASSEMBLY
GAM-1005F	1	COIL ASSY., FILED, COMPLETE	GAR-171	1	Snap Ring
GAM-1007E	1	Coil Assy., Field, Left	GR-32	1	Retainer, Felt Washer
GAL-289	1	Lead Assy.	SP-358	1	Pulley, Drive
X-755	1	Terminal	X-260	1	Key, Woodruff, #5
X-1425	1	Terminal	X-864	1	Lockwasher, Shaft, D.E.
X-976	1	Terminal			
GAM-1008	1	Coil Assy., Field, Right	Drive End Head Assembly & Parts Used With		
X-959	1	Terminal	GBJ-1067	1	Head Assy., Drive End
GAR-211	1	Bushing, Insulating	GAR-63	2	Retainer, Felt Washer
GK-38	2	Screw, Pole Piece	GAR-64	2	Retainer, Bearing
MN-21	2	Pin, Dowel	GBJ-67	1	Head, Drive End
8X-140	1	Nut, Hex., #6-32	GG-164	2	Washer, Felt
X-194	1	Lockwasher, #6	8X-173	3	Nut, Hex., #10-32
8X-1008	1	Screw, Rd. Hd., #6-32x9/16	X-196	3	Lockwasher, #10
GJ-20	2	Bolt, Thru	X-295	1	BEARING, BALL, S.A.E. #203
X-199	2	Lockwasher, 1/4	X-489	1	Oiler
			8X-1003	3	Screw, Rd. Hd. #10-32x7/8
Comm. End Head Assembly & Parts Used With			Miscellaneous Parts		
GAR-2110C	1	Head Assy., Comm. End	CB-4014	1	RELAY ASSY., CUTOUT
GAL-51	2	Spring, Retaining, 3rd Brush Plate	CB-123	1	Spring, Armature
GAR-73	1	Wick, Felt	CB-160S	1	Cover, Relay
GAR-78	1	Gasket, Cover	PX-55	1	Screw, Arm. Term., Bdg. Hd. #10-32x3/16
GAR-79A	1	Cover, Comm. End	X-196	2	Washer, Term., #10
GAR-98A	1	Cover, Wick	8X-312	1	Screw, Batt. Term., Rd. Hd. #10-32x1/4
GAR-1072	1	Plate, 3rd Brush	GAL-1024	1	Band, Cover
GAR-1110A	1	Head Assy., Partial, C.E.	X-196	2	Lockwasher, Mtg., Sc., #10
GBF-79	1	BEARING, ABSORBENT BRONZE	8X-321	2	Screw, Relay Mtg., Rd. Hd. #10-32x5/16
GBM-1012A†	2	Brush, Main	X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
GBM-1013A†	1	Brush, Third	8X-794	1	Nut, Cover Band, Square #10-32
GBW-72	1	Oil Guard			
GBW-73	1	Gasket, Oil Retaining			
8X-56	2	Screw, Rd. Hd. #8-32x7/16			
X-196	3	Lockwasher, #10			
X-489	1	Oiler			
8X-870	3	Screw, Fill. Hd., #10-32x5/16			
X-195	3	Lockwasher Br. Lead Sc., #8			
8X-305	3	Screw, Br. Lead, Rd. Hd. #8-32x1/4			

† BRUSH SET, SERVICE GBM-2012AS.

UNIT	APPLICATION
GBM-4615A	Continental

(Issued 4-12-50)

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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

GBM-4616A GENERATOR PARTS LIST

GBM-4616A

Frame & Field Assembly & Parts Used With						Drive End Head 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-2108)	1	Frame & Field Assy.					GBJ-1003C	1	Head Assy., Drive End				
GAL-44	1	Insulation, Field Connection					GAR-63	2	Retainer, Felt Washer				
GAM-1005J	1	Coil Assy., Field, Comp.					GAR-64	2	Retainer, Bearing				
GAM-1007E	1	Coil Assy., Field, Left					GBJ-3C	1	Head				
GAL-289	1	Lead Assy.					GG-164	2	Washer, Felt				
X-755	1	Terminal					8X-173	3	Nut, Retainer Screw, Hex., #10-32				
X-1425	1	Terminal					X-196	3	Washer, Lock, Retainer Sc., #10				
X-976	1	Terminal					X-295	1	Bearing, Ball, S.A.E. #203				
GAM-1008C	1	Coil Assy., Field, Right					X-489	1	Oiler, Hinge Top, Press in, 1/4				
X-767	1	Terminal					8X-1003	3	Screw, Retainer, Rd. hd., #10-32x7/8				
GAR-211	1	Bushing, Insulating					<u>Miscellaneous Parts</u>						
GK-38	2	Screw, Pole Shoe					GAL-1024C	1	Band, Cover				
MN-21	2	Pin, Dowel, Head Locating					GCM-71	1	Bracket, Mounting, Generator				
MW-20A	2	Bolt, Thru					TC-4302A	1	Regulator				
X-199	2	Washer, Lock, Thru Bolt, 1/4					X-196	4	Washer, Lock, Regulator Mtg., #10				
<u>Comm. End Head Assembly &amp; Parts Used With</u>						8X-321	4	Screw, Mtg., Regulator, Rd. hd., #10-32x5/16					
(GAR-2194C)	1	Head Assy., Comm. End					X-402	2	Pin, Cotter, 1/16x3/4				
GAR-73	1	Wick, Felt					X-715	1	Screw, Cover Band, Rd. hd., #10-32x1 1/4				
GAR-98A	1	Cover, Wick					8X-794	1	Nut, Cover Band, Square, #10-32				
GAR-1014A	1	Plate, 3rd Brush					8X-863A	2	Screw, Mounting Bracket, Hex. hd., 5/16-24				
GAR-1194D	1	Head Assy., Partial, C.E.					X-1014	2	Washer, Lock, Mtg. Bracket Screw 5/16				
GBF-79	1	Bearing, Absorbent Bronze					8X-1061	2	Nut, Mounting Bracket Sc., Castellated, 5/16-24				
GBM-1012A†	2	Brush, Main							1	2	3	4	5
GBM-1013A†	1	Brush, Third					(Issued 3-13-44)						
GBW-69	1	Gasket, C.E. Cover											
GBW-72	1	Oil Guard											
GBW-73	1	Gasket, Oil Guard											
GBW-1068B	1	Cover, Comm. End											
G CJ-51	1	Spring, Retaining, 3rd Brush Plate											
X-195	4	Washer, Lock, Cover Sc., #8											
8X-311	1	Screw, Plate Retaining, Rd. hd., #10-32x3/8											
8X-888	4	Screw, Cover, Fil. hd., #8-32x5/16											
X-195	3	Washer, Lock, Brush Lead, #8											
8X-305	3	Screw, Brush Lead, Rd. hd., #8-32x1/4											
<u>Armature Assembly &amp; Parts Used With</u>													
GBM-2065F	1	Armature Assy.											
GAR-171	1	Snap Ring											
GR-32	1	Retainer, Felt Washer											
SP-368	1	Pulley, Drive											
SP-369	1	Nut, Armature Shaft											
X-260	1	Key, Woodruff, #5											
		1	2	3	4	5							

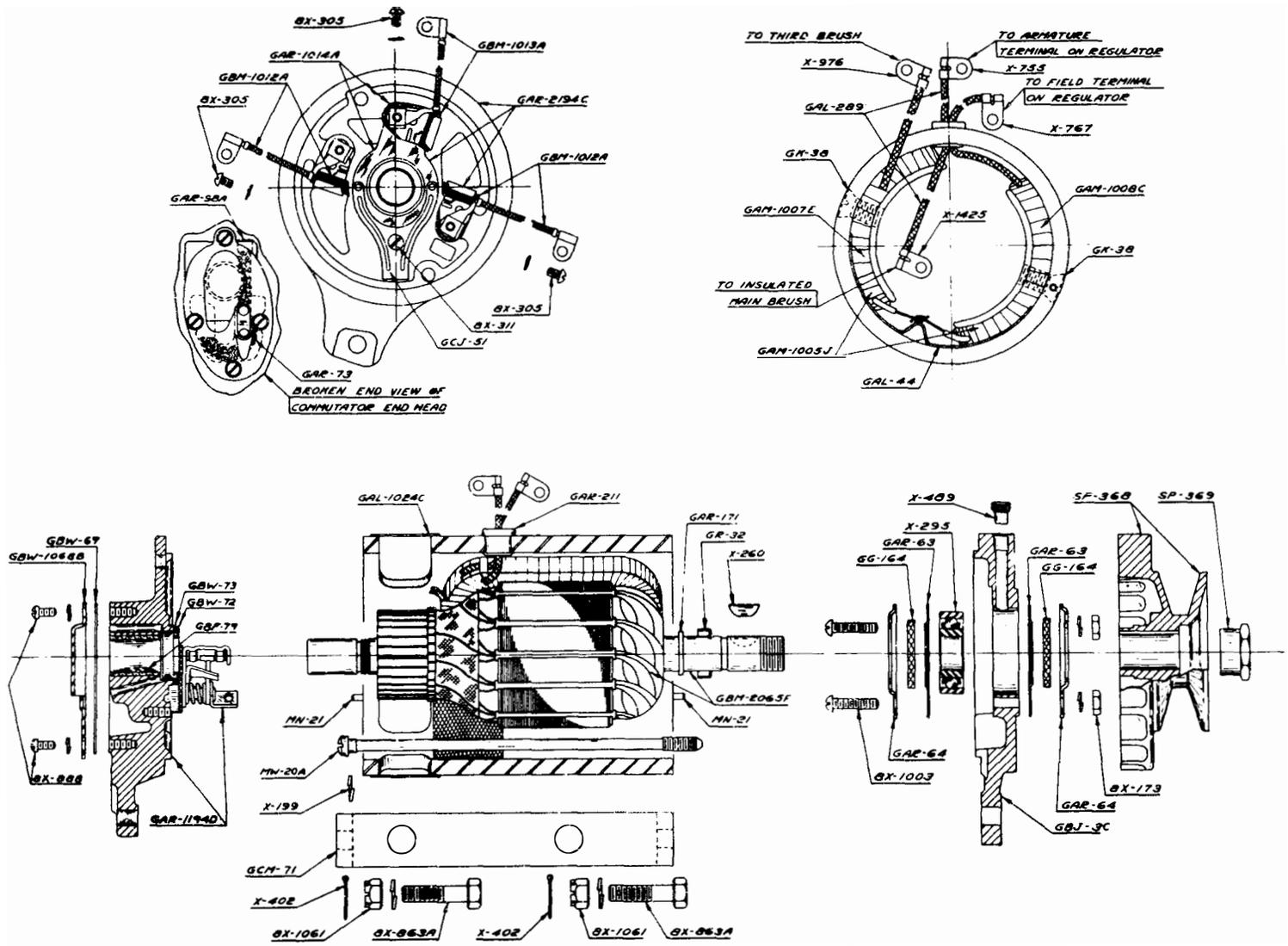
† Brush Set, Service, GBM-2012AS.

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GBM-4616A GENERATOR ILLUSTRATION



# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBM-4617 GENERATOR PARTS LIST

GBM-4617

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-2109)	1	Frame & Field Assy					GBM-21	1	Nut, Armature Shaft				
GAL-44	1	Insulation, Field Connection					GBM-2065F	1	Armature Assy.				
GAM-1005L	1	Coil Assy., Field, Comp.					GAR-171	1	Snap Ring				
GAM-1007E	1	Coil Assy., Field, Left					GR-32	1	Retainer, Felt Washer				
GAL-289	1	Lead Assy.					X-260	1	Key, Woodruff, #5				
X-755	1	Terminal					X-864	1	Washer, Lock, Arm. Shaft, .669				
X-1425	1	Terminal					<u>Drive End Head Assembly &amp; Parts Used With</u>						
X-976	1	Terminal					GAM-1110	1	Head Assy., Drive End				
GAM-1008B	1	Coil, Field, Right					GAM-34	1	Retainer, Felt Washer, Outer Head				
GCE-27	1	Stud, Field Terminal, #10-32					GAM-110	1	Head				
GAR-211	1	Bushing, Insulating					GAR-63	1	Retainer, Felt Washer, Inner				
GBW-34	1	Washer, Ins., Term. Stud					GAR-64	1	Retainer, Bearing				
GBW-67	1	Insulation, Term. Stud, Inner					GG-164	2	Washer, Felt				
GCY-25	1	Bushing, Ins., Term. Stud					X-196	3	Washer, Lock, Retainer Sc., #10				
GK-38	2	Screw, Pole Shoe					8X-311	3	Screw, Retainer, Rd. hd., #10-32x3/8				
MN-21	2	Pin, Dowel, Head Locating					X-441	1	Bearing, Ball, Shielded, S.A.E. #203				
X-196	2	Washer, Lock, Term. Stud, #10					X-489	1	Oiler, Hinge Top, Press in, 1/4				
8X-349	1	Washer, Plain, Term. Stud, #10					<u>Miscellaneous Parts</u>						
5X-1377	2	Nut, Term. Stud, Hex., #10-32					CB-4014	1	Relay Assy., Cutout				
GJ-104	1	Spacer, Armature Shaft					CB-123	1	Spring, Armature				
MW-20A	2	Bolt, Thru					CB-160S	1	Cover				
X-199	2	Washer, Lock, Thru Bolt, 1/4					PX-55	1	Screw, Arm. Term., Bdg. hd., #10-32x3/16				
<u>Comm. End Head Assembly &amp; Parts Used With</u>					X-196	2	Washer, Lock, Term. Sc., #10						
(GAR-2236A)	1	Head Assy., Comm. End					8X-312	1	Screw, Bat. Term, Rd. hd., #10-32x1/4				
GAR-73	1	Wick, Felt					GAL-1024B	1	Band, Cover				
GAR-98A	1	Cover, Wick					X-196	2	Washer, Lock, Cutout Relay Mtg., #10				
GAR-1014A	1	Plate, 3rd Brush					8X-308	1	Screw, Cover Band, Rd. hd., #10-32x1 3/8				
GAR-1236C	1	Head Assy., Partial, C.E.					8X-321	2	Screw, Mtg., Cutout Relay, Rd. hd., #10-32x5/16				
GBF-79	1	Bearing, Absorbent Bronze					8X-794	1	Nut, Cover Band, Square, #10-32 1 2 3 4 5				
GBM-1012A†	2	Brush, Main					(Issued 3-13-44)						
GBM-1013A†	1	Brush, Third											
GBW-69	1	Gasket, C.E. Cover											
GBW-72	1	Oil Guard											
GBW-73	1	Gasket, Oil Guard											
GBW-1068B	1	Cover, Comm. End											
GCJ-51	1	Spring, Retaining, 3rd Brush Plate											
X-195	4	Washer, Lock, Cover Sc., #8											
8X-311	1	Screw, Plate Retaining, Rd. hd., #10-32x3/8											
8X-888	4	Screw, Cover, Fil. hd., #8-32x5/16											
X-195	3	Washer, Lock, Brush Lead, #8											
8X-305	3	Screw, Brush Lead, Rd. hd., #8-32x1/4											
		1	2	3	4	5							

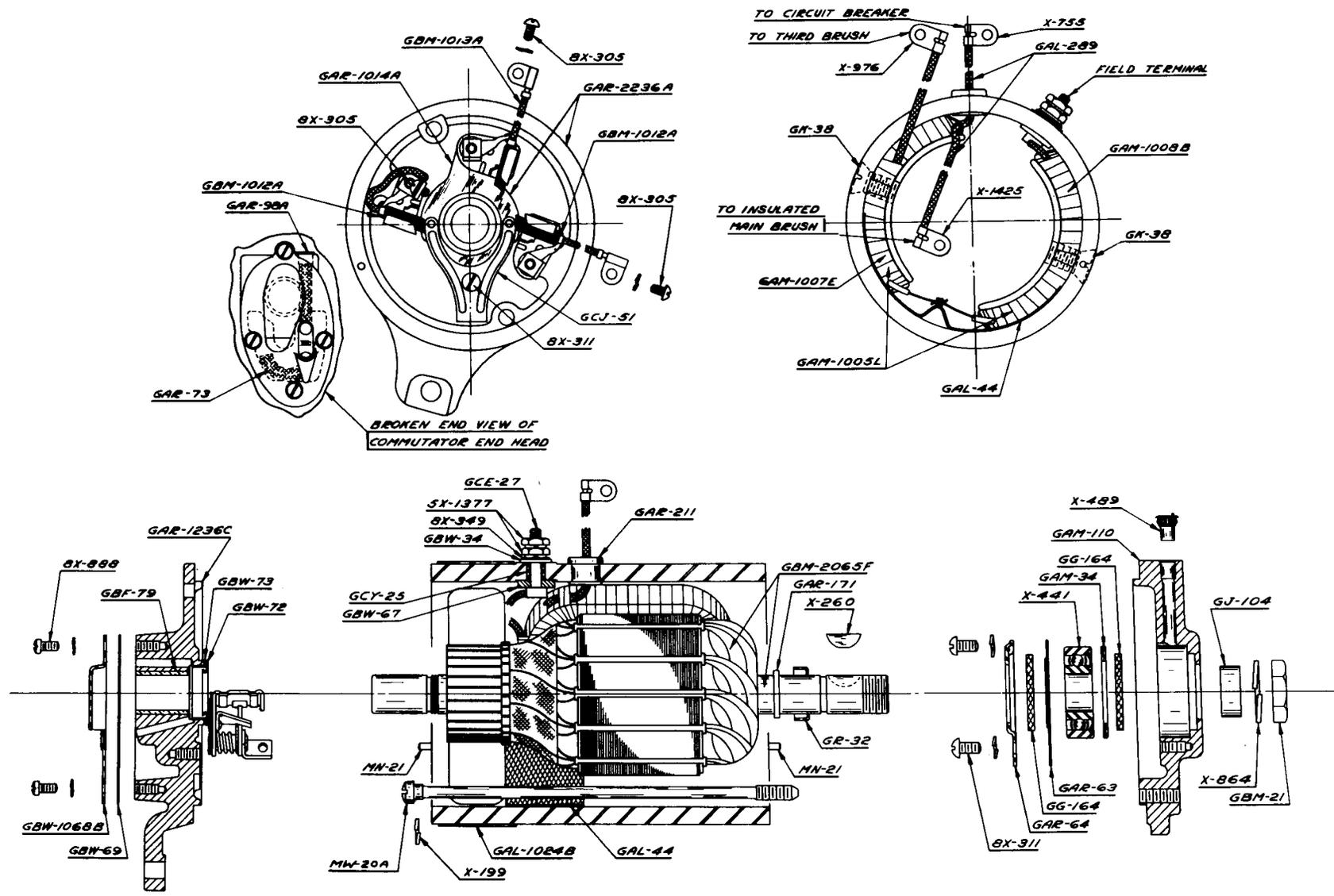
† Brush Set, Service, GBM-2012AS.

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GBM-4617 GENERATOR ILLUSTRATION



# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBM-4619 GENERATOR PARTS LIST

GBM-4619

### Frame & Field Assy. & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
(GAM-3113)	1	Frame & Field Assy.				
GAA-30	1	Terminal Post Bottom Ins.				
GAA-32	1	Terminal Post Top Ins.				
GAL-44	1	Field Connection Ins.				
GAM-29	2	Pole Piece				
GAM-2005A	1	FIELD COIL ASSY.- COMP.				
GAM-1007J	1	Field Coil Assy.-Left				
X-976	1	Terminal				
GAM-1008E	1	Field Coil Assy.-Right				
X-959	1	Terminal				
GCT-25	1	Insulating Bushing				
GDK-25	1	Lead Assembly				
GCE-34	1	Terminal Post				
X-847	1	Terminal				
GK-38	2	Pole Piece Screw				
MN-21	2	Dowel Pin				
8X-140	1	#6-32 Hex. Nut				
5X-177	1	#14-24 Hex. Nut				
X-193	1	#14 Lock Washer				
X-194	1	#6 Lock Washer				
8X-361	1	1/4 Plain Washer				
8X-1008	1	#6-32x9/16 Rd. Hd. Screw				
MW-20	2	Frame Screw				
5X-177	1	#14-24 Hex. Nut				
X-193	1	#14 Lock Washer				
X-199	2	1/4 Lock Washer				

### Comm. End Plate Assy. & Parts Used With

(GBM-3245)	1	Comm. End Plate Assy.				
GAR-73	1	Oil Wick				
GAR-98A	1	Wick Cover				
GAR-1245A	1	C. E. Plate Part Assy.				
GBF-79	1	ABSORBENT BRONZE BRG.				
GBM-1012A1	2	Brush - Main				
GBM-1013A1	1	Brush - Third				
GBW-69	1	Gasket				
GBW-72	1	Oil Guard				
GBW-73	1	Oil Retaining Gasket				
GBW-1068B	1	Comm. End Cap Cover				
G CJ-51	1	3rd Brush Plate Retaining Spring				
GDB-1014L	1	3rd Brush Plate Assy.				
X-195	5	#8 Lock Washer				
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. So.				
X-195	2	#8 Lock Washer				
8X-305	2	#8-32x1/4 Rd. Hd. Screw				
		1	2	3	4	5

### Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GBM-69	1	Spacer				
GBM-70	1	Drive Collar				
GBM-2066	1	ARMATURE ASSEMBLY				
GAR-171	1	Snap Ring				
X-161	1	1/2-20 Hex. Nut				
X-1500	1	1/2 Skpf. Washer				

### Drive End Head Assy. & Parts Used With

GAM-1114	1	Drive End Head Assy.				
GAM-114	1	Drive End Head				
GG-6	1	Bearing Retainer				
GK-85	1	Paper Gasket				
GT-76	1	Felt Washer Retainer				
GT-78	1	Felt Washer				
X-196	3	#10 Lock Washer				
X-295	1	BALL BRG.-S.A.E. #203				
8X-311	3	#10-32x3/8 Rd. Hd. Sc.				
X-489	1	1/4 Oiler - Press in Type				

### Miscellaneous Parts

GAL-1024	1	Head Band Assembly				
X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
8X-794	1	#10-32 Square Nut				
		1	2	3	4	5

(Issued 7-7-39)

† Service BRUSH SET GBM-2012AS.

NOTE:- CB-4025 CIRCUIT BREAKER is used with but is not a part of this generator.

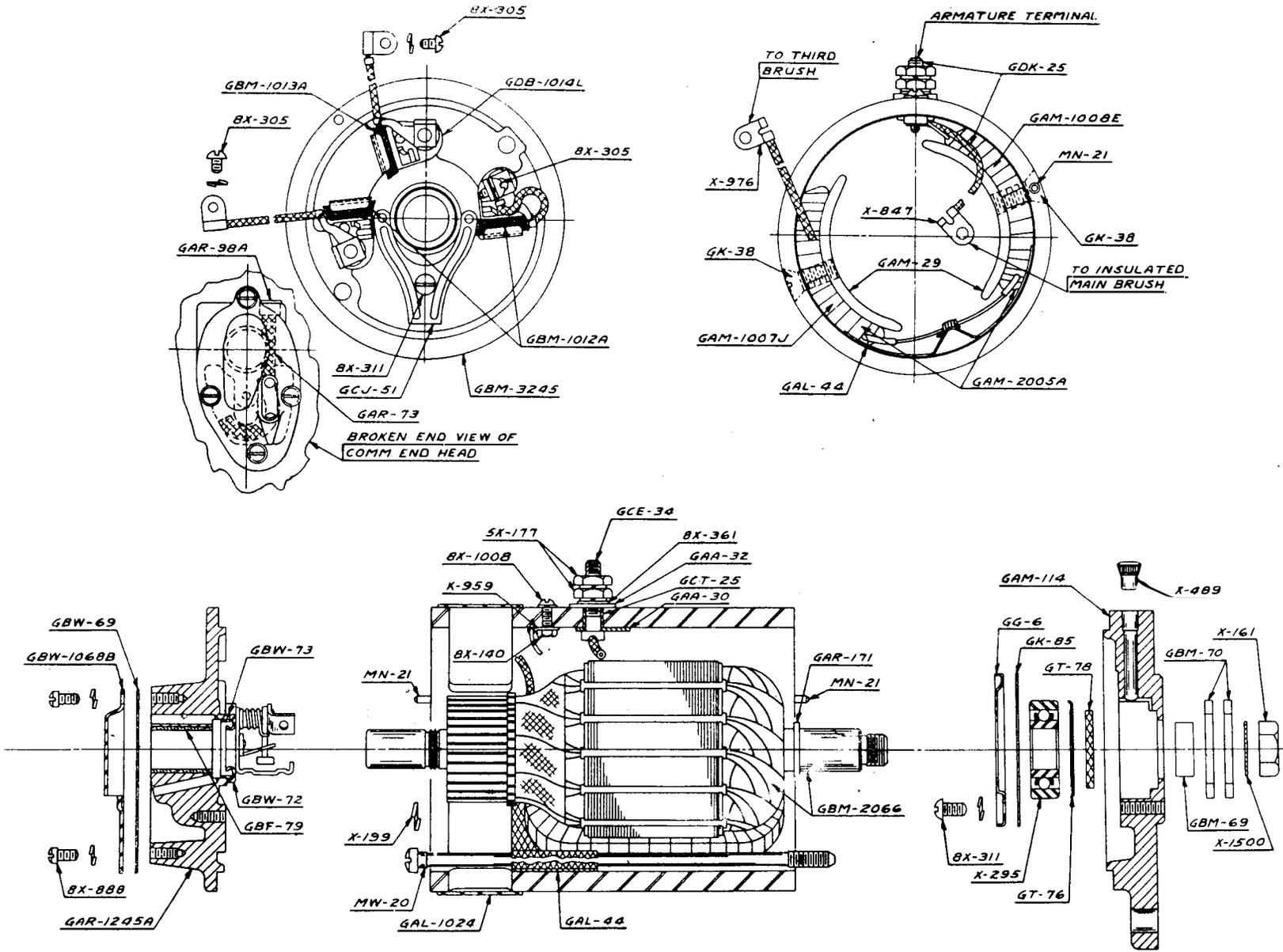
UNIT	APPLICATION
GBM-4619	Crosley

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

GBM-4619 GENERATOR ILLUSTRATION



# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBM-4620A GENERATOR PARTS LIST

GBM-4620A

PRELIMINARY

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
(GBM-2025)	1	Frame & Field Assembly				
GAL-44	1	Field Connection Ins.				
GAM-29	2	Pole Piece				
GAM-1005F	1	FIELD COIL ASSY.- Comp.				
GAM-1007E	1	Field Coil Assy.-Left				
GAL-289	1	C. B. Lead Assembly				
X-755	1	Terminal				
X-1425	1	Terminal				
X-976	1	Terminal				
GAM-1008	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				
GJ-20	2	Frame Screw				
X-199	2	1/4 Lock Washer				

Comm. End Plate Assembly & Parts Used With

(GAR-2224)	1	Comm. End Plate Assembly				
GAR-73	1	Oil Wick				
GAR-98A	1	Wick Cover				
GAR-1014B	1	3rd Brush Plate Assembly				
GAR-219	1	Brush Arm				
GAR-221	1	Brush Spring				
GAR-1224A	1	C. E. Plate Part Assy.				
GAR-219	2	Brush Arm				
GAR-221	2	Brush Spring				
GBF-79	1	ABSORBENT BRONZE BRG.				
GEM-1012A†	2	Brush - Main				
GEM-1013A†	1	Brush - Third				
GBW-69	1	Gasket				
GBW-72	1	Oil Guard				
GBW-73	1	Oil Retaining Gasket				
GBW-1068B	1	Comm. End Cap Cover				
GCJ-51	1	3rd Brush Plate Retaining Spring				
12X-195	5	#8 Lock Washer				
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.				
X-195	2	#8 Lock Washer				
8X-305	2	#8-32x1/4 Rd. Hd. Screw				
		1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GEM-21	1	Armature Shaft Nut				
GBM-2006	1	ARMATURE ASSEMBLY				
GAR-171	1	Snap Ring				
GR-32	1	Felt Washer Retainer				
SP-153	1	Drive Pulley				
X-260	1	#5 Woodruff Key				
X-864	1	.669 Lock Washer				

Drive End Head Assembly & Parts Used With

GBJ-1003C	1	Drive End Head Assembly				
GAR-63	2	Felt Guard				
GAR-64	2	Bearing Retainer				
GBJ-3C	1	Drive End Head				
GG-164	2	Felt Washer				
8X-173	3	#10-32 Hex. Nut				
X-196	3	#10 Lock Washer				
X-295	1	BALL BRG. - S.A.E. #203				
X-489	1	1/4 Oiler - Press in Type				
8X-1003	3	#10-32x7/8 Rd. Hd. Screw				

Miscellaneous Parts

CB-4014	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. Screw				
GAL-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 5-16-41)

† SERVICE BRUSH SET GEM-2012AS.

UNIT	APPLICATION
GBM-4620A	Hercules

Printed in U. S. A.

File in  
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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

GBM-4620A GENERATOR PARTS LIST

GBM-4620A

PRELIMINARY

<u>Frame &amp; Field Assembly &amp; Parts Used With</u>						
Part No.	No. Used	Name of Part				
		1	2	3	4	5
(GBM-2025)	1	Frame & Field Assembly				
GAL-44	1	Field Connection Ins.				
GAM-29	2	Pole Piece				
GAM-1005F	1	FIELD COIL ASSY.- Comp.				
GAM-1007E	1	Field Coil Assy.-Left				
GAL-289	1	C. B. Lead Assembly				
X-755	1	Terminal				
X-1425	1	Terminal				
X-976	1	Terminal				
GAM-1008	1	Field Coil Assy.-Right				
X-959	1	Terminal				
GAR-211	1	Insulating Bushing				
GK-38	2	Pole Piece Screw				
MNV-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				
GJ-20	2	Frame Screw				
X-199	2	1/4 Lock Washer				
<u>Comm. End Plate Assembly &amp; Parts Used With</u>						
(GAR-2224)	1	Comm. End Plate Assembly				
GAR-73	1	Oil Wick				
GAR-98A	1	Wick Cover				
GAR-1014B	1	3rd Brush Plate Assembly				
GAR-219	1	Brush Arm				
GAR-221	1	Brush Spring				
GAR-1224A	1	C. E. Plate Part Assy.				
GAR-219	2	Brush Arm				
GAR-221	2	Brush Spring				
GBF-79	1	ABSORBENT BRONZE BRG.				
GEM-1012A†	2	Brush - Main				
GEM-1013A†	1	Brush - Third				
GEW-69	1	Gasket				
GEW-72	1	Oil Guard				
GEW-73	1	Oil Retaining Gasket				
GEW-1068B	1	Comm. End Cap Cover				
GCJ-51	1	3rd Brush Plate Retaining Spring				
12X-195	5	#8 Lock Washer				
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.				
X-195	2	#8 Lock Washer				
8X-305	2	#8-32x1/4 Rd. Hd. Screw				
		1	2	3	4	5

<u>Armature Assembly &amp; Parts Used With</u>						
Part No.	No. Used	Name of Part				
		1	2	3	4	5
GEM-21	1	Armature Shaft Nut				
GBM-2006	1	ARMATURE ASSEMBLY				
GAR-171	1	Snap Ring				
GR-32	1	Felt Washer Retainer				
SP-153	1	Drive Pulley				
X-260	1	#5 Woodruff Key				
X-864	1	.669 Lock Washer				
<u>Drive End Head Assembly &amp; Parts Used With</u>						
GBJ-1003C	1	Drive End Head Assembly				
GAR-63	2	Felt Guard				
GAR-64	2	Bearing Retainer				
GBJ-3C	1	Drive End Head				
GG-164	2	Felt Washer				
8X-173	3	#10-32 Hex. Nut				
X-196	3	#10 Lock Washer				
X-295	1	BALL BRG. - S.A.E. #203				
X-489	1	1/4 Oiler - Press in Type				
8X-1003	3	#10-32x7/8 Rd. Hd. Screw				

Miscellaneous Parts

CB-4014	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. Screw				
GAL-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 5-16-41)

† SERVICE BRUSH SET GEM-2012AS.

UNIT	APPLICATION
GBM-4620A	Hercules

Printed in U. S. A.

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."



# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBM-4621-5 GENERATOR PARTS LIST

GBM-4621-5

## Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
(GAM-2124)	1	Frame & Field Assy.					
GAL-44	1	Insulation, Field Connection					
GAM-1005F	1	COIL ASSY., FIELD, COMP.					
GAM-1007E	1	Coil Assy., Field Left					
GAL-289	1	Lead Assy.					
X-755	1	Terminal					
X-1425	1	Terminal					
X-976	1	Terminal					
GAM-1008	1	Coil Assy., Field, Right					
X-959	1	Terminal					
GAR-211	1	Bushing, Insulating					
GK-38	2	Screw, Pole Shoe					
MN-21	2	Pin, Dowel					
8X-140	1	Nut, Field Ground Sc., Hex., #6-32					
X-194	1	Lockwasher, Field Ground Sc. #6					
8X-1008	1	Screw, Field Ground, Rd., Hd., #6-32x9/16					
GJ-20	2	Bolt, Thru					
X-199	2	Lockwasher, Thru Bolt, 1/4					
<b>Comm. End Head Assembly &amp; Parts Used With</b>							
GBM-2118S	1	Head Assy., Comm. End					
GAR-73	1	Wick, Felt					
GAR-98A	1	Cover Wick					
GAR-1014A	1	Plate, 3rd Brush					
GBM-1012A*	2	Brush, Main					
GBM-1013A*	1	Brush, Third					
GBM-1118A	1	Head Assy., Partial, C.E.					
GBF-79	1	BEARING, ABSORBENT BRONZE					
GBW-69	1	Gasket, Cover, Comm. End					
GBW-72	1	Oil Guard					
GBW-73	1	Gasket, Oil Guard					
GBW-1068	1	Cover, Comm. End					
GCJ-51	1	Spring, Retaining, 3rd Brush Plate					
12X-195	4	Lockwasher, Cover Sc., #8					
8X-311	1	Screw, Plate Retaining, Rd. Hd. #10-32x3/8					
8X-888	4	Screw, Cover, Fil Hd., #8-32x5/16					
X-195	3	Lockwasher, Brush Lead, #8					
8X-305	3	Screw, Brush Lead, Rd. Hd., #8-32x1/4					

## Armature Assembly & Parts Used With

GAR-1177	1	Oil Thrower					
GBM-2117	1	ARMATURE					
X-156	1	Nut, Shaft, Castellated, 1/2-20					
			1	2	3	4	5

## Armature assembly & Parts (Continued)

Part No.	No. Used	Name of Part					
			1	2	3	4	5
X-263	1	Key, Woodruff, #8					
X-358	1	Washer, Plain, Arm. Shaft 1/2					
X-404	1	Pin, Cotter, 3/32x1					
<b>Drive End Head Assembly &amp; Parts Used With</b>							
GAR-1096A	1	Head Assy., Drive End					
GAR-95	1	Washer, Felt					
GAR-96A	1	Head					
GX-9	1	Retainer, Bearing					
GX-10	1	Gasket, Brg. Retainer					
X-196	3	Lockwasher, Retainer Screw #10					
8X-311	3	Screw, Retainer, Rd. Hd., #10-32x3/8					
X-378	1	BEARING, BALL, SHIELDED, S.A.E. #204					
<b>Miscellaneous Parts</b>							
CB-4014	1	RELAY ASSY., CUTOUT					
CB-123	1	Spring, Armature					
CB-160S	1	Cover					
PX-55	1	Screw, Arm. Term., Bdg. Hd., #10-32x3/16					
12X-196	2	Washer, Lock Term. Screw, #10					
8X-312	1	Screw, Bat. Term., Rd. Hd., #10-32x1/4					
GBM-24	1	Band, Cover					
8X-321	2	Screw, Mtg., Cutout Relay, Rd. Hd., #10-32x5/16					
X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2					
8X-794	1	Nut, Cover Band, Square #10-32					
X-1270	2	Washer, Skpf., Cutout Relay Mtg., #10					
			1	2	3	4	5

\* BRUSH SET, SERVICE, GBM-2012AS.

UNIT	APPLICATION
GBM-4621-5	Elwell-Parker Hercules Lincoln-Electric

(Issed 8-20-47)

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# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBM-4622-5,A-5 GENERATOR PARTS LIST

GBM-4622-5,  
A-5

## Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
(GBM-2122)	1	Frame & Field Assy.
GAL-44	1	Insulation, Field Connection
GAM-1005J	1	COIL ASSY., FIELD, COMPLETE
GAM-1007E	1	Coil Assy., Field, Left
GAL-289	1	Lead Assy.
X-755	1	Terminal
X-1425	1	Terminal
X-976	1	Terminal
GAM-1008C	1	Coil Assy., Field, Right
X-767	1	Terminal
GAR-211	1	Bushing, Insulating
GK-38	2	Screw, Pole Shoe
MN-21	2	Pin, Dowel
GJ-20	2	Bolt, Thru
12X-199	2	Lockwasher, Thru Bolt, 1/4

## Comm. End Head Assembly & Parts Used With

GBM-2118S	1	Head Assy., Comm. End
GAR-73	1	Wick, Felt
GAR-98A	1	Cover, Wick
GAR-1014A	1	Plate, 3rd. Brush
GBM-1118A	1	Head Assy., Partial, C.E.
GBF-79	1	BEARING, ABS. BRONZE
GBM-1012A†	2	Brush, Main
GBM-1013A†	1	Brush, Third
GBW-69	1	Gasket, Cover
GBW-72	1	Oil Guard
GBW-73	1	Gasket, Oil Guard
GBW-1068	1	Cover, Comm. End
GCJ-51	1	Spring, Retaining, 3rd. Brush Plate
12X-195	4	Lockwasher, Cover Sc., #8
8X-311	1	Screw, Retaining Spring, Rd. Hd., #10-32x3/8
8X-888	4	Screw, Cover, Fill. Hd., #8-32x5/16
12X-195	3	Lockwasher, Br. Lead Sc., #8
8X-305	3	Screw, Brush Lead, Rd. Hd. #8-32x1/4

## Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part
GAR-1177	1	Oil Thrower
GBM-2117	1	ARMATURE
X-156	1	Nut, Shaft, D.E., 1/2-20
X-263	1	Key, Woodruff, #8
*	1	Washer, Shaft, D.E., Plain 1/2
X-404	1	Pin, Cotter
*	1	Gear

## Drive End Head Assembly & Parts Used With

GAR-1096A	1	Head Assy., Drive End
GAR-95	1	Washer, Felt
GAR-96A	1	Head, Drive End
GX-9	1	Retainer, Bearing
GX-10	1	Gasket
X-196	3	Lockwasher, 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

GBM-24	1	Band, Cover
TC-4327F	1	REGULATOR, TWO CHARGE
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-321	4	Screw, Reg. Mtg., Rd. Hd. #10-32x5/16
8X-794	1	Nut, Cover Band, Square #10-32
X-1270	4	Washer, Mtg. Sc., Skpf. #10

† SERVICE BRUSH SET GBM-2012AS.

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

Assembly No.	Gear	Washer
GBM-4622-5	None	X-358
GBM-4622A-5	XA-740	GFY-38

UNIT	APPLICATION
GBM-4622-5	Lincoln Electric, Chicago Pneumatic Tool, Hercules, O.K. Clutch
GBM-4622A-5	Lincoln Electric

(Issued 4-12-50)

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# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBM-4802-5,A-5,B-5 GENERATOR PARTS LIST

GBM-4802-5,A-5,B-5

Frame & Field Assembly & Parts Used With			Drive End Head Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
(GBM-2001)	1	Frame & Field Assy.	GAM-1110S	1	Head Assy., Drive End
GAL-44	1	Insulation, Field Conn.	GAM-34	1	Retainer, Felt Washer Outer
GAM-1005J	1	COIL ASSY., FIELD, COMP.	GAM-110S	1	Head
GAM-1007E	1	Coil Assy., Field Left	GAR-63	1	Retainer, Felt Washer, Inner
GAL-289	1	Lead Assy., C.B.	GAR-64	1	Retainer, Bearing
X-755	1	Terminal	GG-164	2	Washer, Felt
X-1425	1	Terminal	X-196	3	Lockwasher, Head Sc., #10
X-976	1	Terminal	8X-311	3	Screw, D.E. Head, Rd. Hd., #10-32x3/8
GAM-1008C	1	Coil Assy., Field Right	X-441	1	BEARING, BALL, SHIELDED S.A.E. #203
X-767	1	Terminal	X-489	1	Oiler, Press in Type, 1/4
GAR-211	1	Bushing, Insulation			
GK-38	2	Screw, Pole Shoe			
MN-21	2	Pin, Dowel			
MW-20A	2	Bolt, Thru			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
Comm. End Head Assembly & Parts Used With			Miscellaneous Parts		
GBM-2002S	1	Head Assy., Comm. End	GAL-1024B	1	Band, Head
GAR-73	1	Wick, Felt	*	1	REGULATOR, TWO CHARGE
GAR-98A	1	Cover, Wick	12X-196	4	Lockwasher, Reg. Mtg., Sc. #10
GAR-1014A	1	Plate, 3rd Brush	8X-714	1	Screw, Reg. Mtg., Rd. Hd., #10-32x1 1/2
GBM-1002A	1	Head Assy., Partial, C.E.	8X-321	4	Screw, Rd. Hd., #10-32x5/16
GAR-219	1	Arm, Brush	8X-794	1	Nut, Square, #10-32
GAR-221	1	Spring, Brush			
GBF-79	1	BEARING, ABS. BRONZE			
GBM-1071R	1	Holder Assy., Main Brush			
GAR-219	1	Arm, Brush			
GAR-221	1	Spring, Brush			
X-195	2	Lockwasher, #8			
8X-304	2	Screw, Rd. Hd. #8-32x5/16			
GBW-69	1	Gasket, Cover			
GBW-72	1	Oil Guard			
GBW-73	1	Gasket, Oil Retaining			
GBW-1068	1	Cover, Comm. End			
GCJ-51	1	Spring, Retaining, 3rd Brush Plate			
X-195	4	Lockwasher, Cover Sc., #8			
8X-311	1	Screw, Retainer, Rd. Hd. #10-32x3/8			
8X-888	4	Screw, Cover, Fill. Hd. #8-32x5/16			
GBM-2012AS	1	BRUSH SET, SERVICE			
12X-195	3	Lockwasher, Br. Lead, #8			
8X-305	3	Screw, Brush Lead, Rd. Hd., #8-32x1/4			
Armature Assembly & Parts Used With					
GBM-21B	1	Nut, Armature Shaft			
GBM-2065F	1	ARMATURE ASSY.			
GAR-171	1	Snap Ring			
*	1	Spacer, Armature Shaft			
GR-32	1	Retainer, Felt Washer			
*	1	Pulley Drive			
X-260	1	Key, Woodruff, #5			
12X-864	1	Lockwasher, Shaft			

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

Assembly No.	Pulley, Drive	Regulator Two Charge	Spacer
GBM-4802-5	None	TC-4327E	GJ-104
GBM-4802A-5	SP-835A	TC-4327E	None
GBM-4802B-5	SP-835A	TC-4329A	None

UNIT	APPLICATION
GBM-4802-5	Continental
GBM-4802A-5	Continental, Lincoln Electric
GBM-4802B-5	Continental, Worthington

(Issued 8-24-48)

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# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBM-4804-5, A-5, B-5,  
C-5, D-5, E-5, F-5 GENERATOR PARTS (Cont.)

## Miscellaneous Parts (Continued)

Part No.	No. Used	Name of Part
12X-196	2	Lockwasher, Mtg. Sc., #10
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32

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

Assembly No.	Spacer	Pulley	Cover Band	Mtg. Screw
GBM-4804-5	None	None	GAL-1024F	8X-321
GBM-4804A-5	None	SP-383A	GBM-1024D	8X-1515
GBM-4804B-5	None	SP-394A	GBM-1024D	8X-1515
GBM-4804C-5	None	SP-406A	GAL-1024F	8X-321
GBM-4804D-5	None	SP-432A	GAL-1024F	8X-1515
GBM-4804E-5	None	SP-489A	GBM-1024D	8X-1515
GBM-4804F-5	GJ-104B	SP-856	GBM-1024D	8X-321

UNIT	APPLICATION
GBM-4804-5	Service Generator
GBM-4804A-5	Case, Continental, Massey-Harris
GBM-4804B-5	Kalamazoo, Massey-Harris
GBM-4804C-5	Continental
GBM-4804D-5,	Massey-Harris
GBM-4804E-5	Massey-Harris
GBM-4804F-5	Kalamazoo Mfg.

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# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBM-4805-5 GENERATOR PARTS LIST

GBM-4805-5  
(Issued 3-3-54)

<u>Frame &amp; Field Assembly &amp; Parts Used With</u>		
Part No.	No. Used	Name of Part
GBM-2047	1	Frame & Field Assembly
GAL-44	1	Insulation, Field Connection
GAM-1005M	1	COIL ASSY., FIELD, COMPLETE
GAM-1007E	1	Coil Assy., Field, Left
GAL-289	1	Lead Assy.
X-755	1	Terminal
X-1425	1	Terminal
X-976	1	Terminal
GAM-1008D	1	Coil, Field, Right
GCE-27	1	Stud, Field Terminal, #10-32
GBW-34	1	Washer, Insulating
GBW-67	1	Insulation, Term. Stud, Inner
GCY-25	1	Bushing, Insulating
GFE-37	1	Bushing, Insulating
GK-38	2	Screw, Pole Shoe
MN-21	2	Pin, Dowel
12X-196	2	Washer, Lock, Term. Stud, #10
8X-349	1	Washer, Plain, Term. Stud, #10
8X-1377	2	Nut, Term. Stud, Hex. #10-32
MW-20A	2	Bolt, Thru
X-199	2	Lockwasher, Thru Bolt, 1/4
<u>Comm. End Head Assembly &amp; Parts Used With</u>		
GBM-2002S	1	Head Assy., Comm. End
GAR-73	1	Wick, Felt
GAR-98A	1	Cover, Wick
GAR-1014A	1	Plate, 3rd Brush
GBM-1002A	1	Head Assy., Partial, C. E.
GAR-219	1	Arm, Brush
GAR-221	1	Spring, Brush
GBF-79	1	BEARING, ABSORBENT BRONZE
GBM-1071R	1	Holder Assy., Main Brush
GAR-219	1	Arm, Brush
GAR-221	1	Spring, Brush
X-195	2	Lockwasher, Brush Holder, #8
8X-304	2	Screw, Holder Attaching, Rd. hd., #8-32x5/16
GBW-69	1	Gasket, C. E. Cover
GBW-72	1	Oil Guard
GBW-73	1	Gasket, Oil Guard
GBW-1068	1	Cover, Comm. End
G CJ-51	1	Spring, Retaining, 3rd Brush Plate
X-195	4	Lockwasher, Cover Sc., #8
8X-311	1	Screw, Plate Retaining, Rd. hd. #10-32x3/8

<u>Comm. End Head Assembly (Continued)</u>		
Part No.	No. Used	Name of Part
8X-888	4	Screw, Cover, Fill. Hd. #8-32x5/16
GBM-2012DS	1	BRUSH SET, SERVICE
X-195	3	Lockwasher, Brush Lead, #8
8X-305	3	Screw, Brush Lead, Rd. hd., #8-32x1/4
<u>Armature Assembly &amp; Parts Used With</u>		
GBM-21B	1	Nut, Armature Shaft, D. E.
GBM-2065F	1	ARMATURE ASSEMBLY
GAR-171	1	Snap Ring
GJ-104	1	Spacer, Armature Shaft
GR-32	1	Retainer, Felt Washer
X-260	1	Key, Woodruff, #5
X-864	1	Lockwasher, Arm. Shaft, D. E.
<u>Drive End Head Assembly &amp; Parts Used With</u>		
GAM-1110S	1	Head Assy., Drive End
GAM-34A	1	Retainer, Felt Washer, Outer
GAM-110A	1	Head, Drive End
GAR-63	1	Retainer, Felt Washer, Inner
GAR-64	1	Retainer, Bearing
GG-164	2	Washer, Felt
12X-196	3	Lockwasher, Retainer Screw, #10
8X-311	3	Screw, Retainer, Rd. hd. #10-32x3/8
X-441	1	BEARING, BALL, SHIELDED, S. A. E. #203
X-489	1	Oiler
<u>Miscellaneous Parts</u>		
CB-4014	1	RELAY ASSY., CUTOUT
CB-123	1	Spring, Armature
CB-160S	1	Cover
PX-55	1	Screw, Arm. Term., Bdg. hd., #10-32x3/16
12X-196	2	Washer, Lock, Term. Sc., #10
8X-312	1	Screw, Bat. Term., Rd. hd. #10-32x1/4
GAL-1024F	1	Band, Cover
X-196	2	Lockwasher, Relay Mtg., #10
8X-321	2	Screw, Mtg., Cutout Relay, Rd. hd. #10-32x5/16
8X-714	1	Screw, Cover Band, Rd. hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square, #10-32

UNIT	APPLICATION
GBM-4805-5	Continental, Massey Harris

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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

GBM-4806A GENERATOR PARTS LIST

GBM-4806A

PRELIMINARY

<u>Frame &amp; Field Assembly &amp; Parts Used With</u>					<u>Armature Assembly &amp; Parts Used With</u>											
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part							
		1	2	3	4	5			1	2	3	4	5			
(GBM-2044)	1	Frame & Field Assembly					GBM-21	1	Armature Shaft Nut							
GAL-44	1	Field Connection Ins.					GBM-2065F	1	ARMATURE ASSEMBLY							
GAM-29	2	Pole Piece					GAR-171	1	Snap Ring							
GAM-1005F	1	FIELD COIL ASSY.- Comp.					GR-32	1	Felt Washer Retainer							
GAM-1007E	1	Field Coil Assy.-Left					SP-1344	1	Drive Pulley							
GAL-289	1	C.B. Lead Assy.					X-260	1	#5 Woodruff Key							
X-755	1	Terminal					X-864	1	.669 Lock Washer							
X-1425	1	Terminal					<u>Drive End Head Assembly &amp; Parts Used With</u>									
X-976	1	Terminal					GAM-1101	1	Drive End Head Assembly							
GAM-1008	1	Field Coil Assy.-Right					GAM-34	1	Oil Guard - Corrugated							
X-959	1	Terminal					GAM-101	1	Drive End Head							
GAR-211	1	Insulating Bushing					GAR-63	1	Felt Guard							
GK-38	2	Pole Piece Screw					GAR-64	1	Bearing Retainer							
MN-21	2	Dowel Pin					GG-164	2	Felt Washer							
8X-140	1	#6-32 Hex. Nut					X-196	3	#10 Lock Washer							
X-194	1	#6 Lock Washer					X-295	1	BALL BEARING- S.A.E. #203							
8X-1008	1	#6-32x9/16 Rd. Hd. Sc.					8X-311	3	#10-32x3/8 Rd. Hd. Screw							
MW-20A	2	Frame Screw					X-489	1	1/4 Oiler - Press in Type							
X-199	2	1/4 Lock Washer					<u>Miscellaneous Parts</u>									
<u>Comm. End Plate Assembly &amp; Parts Used With</u>										CB-4014	1	CIRCUIT BREAKER ASSEMBLY				
(GBM-2002A)	1	Comm. End Plate Assembly					CB-123	1	Armature Spring							
GAR-73	1	Oil Wick					CB-160S	1	C. B. Cover							
GAR-98A	1	Wick Cover					PX-55	1	#10-32x3/16 Bdg. Hd. Sc.							
GAR-1014A	1	3rd Brush Holder Plate Assembly					X-196	2	#10 Lock Washer							
GEM-1002C	1	C. E. Plate Part Assy.					8X-312	1	#10-32x1/4 Rd. Hd. Screw							
GAR-219	1	Brush Arm					GAL-1024G	1	Head Band Assembly							
GAR-221	1	Brush Spring					8X-308	1	#10-32x1 3/8 Rd. Hd. Screw							
GBF-79	1	ABSORBENT BRONZE BRG.					8X-321	2	#10-32x5/16 Rd. Hd. Screw							
GBM-1071R	1	Main Brush Holder Assembly					8X-794	1	#10-32 Square Nut							
GAR-219	1	Brush Arm					X-1270	2	#10 Skpf. Washer							
GAR-221	1	Brush Spring							1	2	3	4	5			
X-195	2	#8 Lock Washer					(Issued 4-18-41)									
8X-304	2	#8-32x5/16 Rd. Hd. Sc.														
GEM-1012A†	2	Brush - Main														
GEM-1013B†	1	Brush - Third														
GBW-69	1	Gasket														
GBW-72	1	Oil Guard														
GBW-73	1	Oil Retaining Gasket														
GBW-1068B	1	Comm. End Cap Cover														
GCJ-51	1	3rd Brush Plate Retaining Spring														
X-195	5	#8 Lock Washer														
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.														
X-195	2	#8 Lock Washer														
8X-305	2	#8-32x1/4 Rd. Hd. Screw														
		1	2	3	4	5										

† SERVICE BRUSH SET GBM-2012BS.

UNIT	APPLICATION
GBM-4806A	J. I. Case

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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."



# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBM-4807-1,A-1 GENERATOR PARTS LIST

GBM-4807-1,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						
(GBM-2067)	1	Frame & Field Assy.	8X-888	4	Screw, Cover, Fill. Hd. #8-32x5/16						
GAL-44	1	Insulation, Field Connection	12X-195	3	Lockwasher, Brush Lead, #8						
GAM-1005J	1	COIL ASSY., FIELD, COMPLETE	8X-305	3	Screw, Brush Lead, Rd. Hd. #8-32x1/4						
GAM-1007E	1	Coil Assy., Field, Left	<u>Armature Assembly &amp; Parts Used With</u>								
GAL-289	1	Lead Assy.	GBM-2065F	1	ARMATURE ASSY.						
X-755	1	Terminal	GAR-171	1	Snap Ring						
X-1425	1	Terminal	GR-32	1	Retainer, Felt Washer						
X-976	1	Terminal	*	1	Pulley, Drive						
GAM-1008C	1	Coil Assy., Field, Right	*	1	Nut, Armature Shaft						
X-767	1	Terminal	X-260	1	Key, Woodruff, #5						
GFE-37	2	Bushing, Insulating	<u>Drive End Head Assembly &amp; Parts Used With</u>								
GK-38	2	Screw, Pole Shoe	GBJ-1003C	1	Head Assy., Drive End						
MN-21	2	Pin, Dowel	GAR-63	2	Retainer, Felt Washer						
GCM-71	1	Bracket, Mtg., Generator	GAR-64	2	Retainer, Bearing						
MW-20A	2	Bolt, Thru	GBJ-3C	1	Head						
12X-199	2	Lockwasher, Thru Bolt, 1/4	GG-164	2	Washer, Felt						
X-402	2	Pin, Cotter, Brkt. Sc.	8X-173	3	Nut, Retainer Screw, Hex., #10-32						
8X-863A	2	Screw, Mounting Bracket, Hex. Hd. 5/16-24x1 1/4	X-196	3	Lockwasher, Retainer Sc., #10						
12X-1014	2	Lockwasher, Mtg. Bracket Screw, 5/16	X-295	1	BEARING, BALL, S.A.E.#203						
8X-1061	2	Nut, Bracket Screw, Castellated 5/16-24	X-489	1	Oiler						
<u>Comm. End Head Assembly &amp; Parts Used With</u>			8X-1003	3	Screw, Retainer, Rd. Hd. #10-32x7/8						
GBM-2075	1	Head Assy., Comm. End	<u>Miscellaneous Parts</u>								
GAR-73	1	Wick, Felt	GBM-24	1	Band, Cover						
GAR-98A	1	Cover, Wick	TC-4302A	1	REGULATOR, TWO CHARGE						
GAR-1014A	1	Plate, 3rd. Brush	12X-196	4	Lockwasher, Regulator Mtg., #10						
GBM-1012A†	2	Brush, Main	8X-321	4	Screw, Mtg., Regulator, Rd. Hd. #10-32x5/16						
GBM-1013A†	1	Brush, Third	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2						
GBM-1075A	1	Head Assy., Partial, C.E.	8X-794	1	Nut, Cover Band, Square #10-32						
GAR-219	1	Arm, Brush	Assembly No.      Pulley Drive Nut, Arm. Shaft								
GAR-221	1	Spring, Brush	GBM-4807-1	None	None						
GBF-79	1	Bearing, Abs. Bronze	GBM-4807A-1	SP-368	SP-369						
GBM-1071R	1	Holder Assy., Main Brush	† BRUSH SET, SERVICE GBM-2012AS.								
GAR-219	1	Arm, Brush	* See table following parts list for part number applying to assembly wanted.								
GAR-221	1	Spring, Brush	<table border="1" style="margin-left: auto; margin-right: auto;"> <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;">GBM-4807-1</td> <td style="text-align: center;">Toro</td> </tr> <tr> <td style="text-align: center;">GBM-4807A-1</td> <td style="text-align: center;">Toro, U.S. Motors</td> </tr> </tbody> </table>			UNIT	APPLICATION	GBM-4807-1	Toro	GBM-4807A-1	Toro, U.S. Motors
UNIT	APPLICATION										
GBM-4807-1	Toro										
GBM-4807A-1	Toro, U.S. Motors										
X-195	2	Lockwasher, Holder Screw, #8									
8X-304	2	Screw, Br. Holder, Rd. Hd. #8-32x5/16									
GBW-69	1	Gasket, C.E. Cover									
GBW-72	1	Oil Guard									
GBW-73	1	Gasket, Oil Guard									
GBW-1068	1	Cover, Comm. End									
GCJ-51	1	Spring, Retaining, 3rd Brush Plate									
12X-195	4	Lockwasher, Cover Sc., #8									
8X-311	1	Screw, Retaining Spring, Rd. Hd. #10-32x3/8									

(Issued 3-31-50)

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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

GBM-4808A GENERATOR PARTS LIST

GBM-4808A

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
(GBM-2067)	1	Frame & Field Assy.					GBM-21	1	Nut, Armature Shaft				
GAL-44	1	Insulation, Field Connection					GBM-2065F	1	Armature Assy.				
GAM-1005J	1	Coil Assy., Field, Comp.					GAR-171	1	Snap Ring				
GAM-1007E	1	Coil Assy., Field, Left					GR-32	1	Retainer, Felt Washer				
GAL-289	1	Lead Assy.					SP-1344	1	Pulley, Drive				
X-755	1	Terminal					X-260	1	Key, Woodruff, #5				
X-1425	1	Terminal					X-864	1	Washer, Lock, Arm. Shaft, .669				
X-976	1	Terminal					Drive End Head Assembly & Parts Used With						
GAM-1008C	1	Coil Assy., Field, Right					GAM-1101A	1	Head Assy., Drive End				
X-767	1	Terminal					GAM-34	1	Retainer, Felt Washer, Outer				
GAR-211	1	Bushing, Insulating					GAM-101A	1	Head				
GK-38	2	Screw, Pole Shoe					GAR-63	1	Retainer, Felt Washer, Inner				
MN-21	2	Pin, Dowel, Head Locating					GAR-64	1	Retainer, Bearing				
MW-20A	2	Bolt, Thru					GG-164	2	Washer, Felt				
X-199	2	Washer, Lock, Thru Bolt, 1/4					X-196	3	Washer, Lock, Retainer Sc., #10				
Comm. End Head Assembly & Parts Used With						X-295	1	Bearing, Ball, S.A.E. #203					
(GBM-2002B)	1	Head Assy., Comm. End					8X-311	3	Screw, Retainer, Rd. hd., #10-32x3/8				
GAR-73	1	Wick, Felt					X-489	1	Oiler, Hinge Top, Press in, 1/4				
GAR-98A	1	Cover, Wick					Miscellaneous Parts						
GAR-1014A	1	Plate, 3rd Brush					GAL-1024B	1	Band, Cover				
GBM-1002A	1	Head Assy., Partial, C E.					TC-4305C	1	Regulator				
GAR-219	1	Arm, Brush					X-196	4	Washer, Lock, Regulator Mtg., #10				
GAR-221	1	Spring, Brush					8X-308	1	Screw, Cover Band, Rd. hd., #10-32x1 3/8				
GBF-79	1	Bearing, Absorbent Bronze					8X-321	4	Screw, Mtg., Regulator, Rd. hd., #10-32x5/16				
GBM-1071R	1	Holder Assy., Main Brush					8X-794	1	Nut, Cover Band, Square, #10-32				
GAR-219	1	Arm, Brush					1 2 3 4 5						
GAR-221	1	Spring, Brush					(Issued 3-14-44)						
X-195	2	Washer, Lock, Brush Holder, #8											
8X-304	2	Screw, Holder Attaching, Rd. hd., #8-32x5/16											
GBM-1012A†	2	Brush, Main											
GBM-1013B†	1	Brush, Third											
GBW-69	1	Gasket, C.E. Cover											
GBW-72	1	Oil Guard											
GBW-73	1	Gasket, Oil Guard											
GBW-1068B	1	Cover, Comm. End											
GCJ-51	1	Spring, Retaining, 3rd Brush Plate											
X-195	4	Washer, Lock, Cover Sc., #8											
8X-311	1	Screw, Plate Retaining, Rd. hd., #10-32x3/8											
8X-888	4	Screw, Cover, Fill. hd., #8-32x5/16											
X-195	3	Washer, Lock, Brush Lead, #8											
8X-305	3	Screw, Brush Lead, Rd. hd., #8-32x1/4											
		1	2	3	4	5							

† Brush Set, Service, GBM-2012BS.



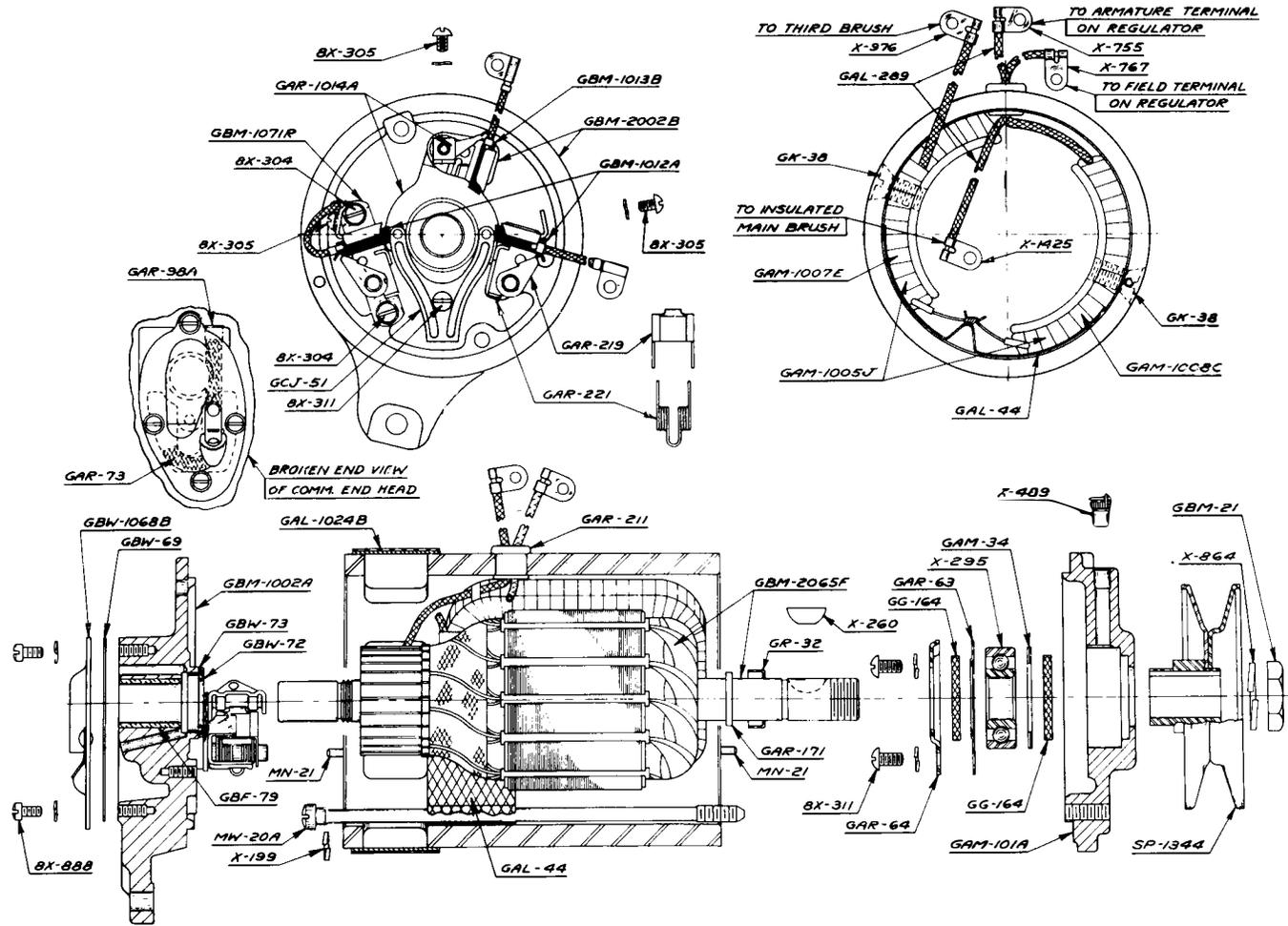
# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBM-4808A GENERATOR PARTS LIST

GBM-4808A

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	
(GBM-2067)	1	Frame & Field Assy.					GBM-21	1	Nut, Armature Shaft					
GAL-44	1	Insulation, Field Connection					GBM-2065F	1	Armature Assy.					
GAM-1005J	1	Coil Assy., Field, Comp.					GAR-171	1	Snap Ring					
GAM-1007E	1	Coil Assy., Field, Left					GR-32	1	Retainer, Felt Washer					
GAL-289	1	Lead Assy.					SP-1344	1	Pulley, Drive					
X-755	1	Terminal					X-260	1	Key, Woodruff, #5					
X-1425	1	Terminal					X-864	1	Washer, Lock, Arm. Shaft, .669					
X-976	1	Terminal					<u>Drive End Head Assembly &amp; Parts Used With</u>							
GAM-1008C	1	Coil Assy., Field, Right					GAM-1101A	1	Head Assy., Drive End					
X-767	1	Terminal					GAM-34	1	Retainer, Felt Washer, Outer					
GAR-211	1	Bushing, Insulating					GAM-101A	1	Head					
GK-38	2	Screw, Pole Shoe					GAR-63	1	Retainer, Felt Washer, Inner					
MN-21	2	Pin, Dowel, Head Locating					GAR-64	1	Retainer, Bearing					
MW-20A	2	Bolt, Thru					GG-164	2	Washer, Felt					
X-199	2	Washer, Lock, Thru Bolt, 1/4					X-196	3	Washer, Lock, Retainer Sc., #10					
<u>Comm. End Head Assembly &amp; Parts Used With</u>						X-295	1	Bearing, Ball, S.A.E. #203						
(GBM-2002B)	1	Head Assy., Comm. End					8X-311	3	Screw, Retainer, Rd. hd., #10-32x3/8					
GAR-73	1	Wick, Felt					X-489	1	Oiler, Hinge Top, Press in, 1/4					
GAR-98A	1	Cover, Wick					<u>Miscellaneous Parts</u>							
GAR-1014A	1	Plate, 3rd Brush					GAL-1024B	1	Band, Cover					
GBM-1002A	1	Head Assy., Partial, C E.					TC-4305C	1	Regulator					
GAR-219	1	Arm, Brush					X-196	4	Washer, Lock, Regulator Mtg., #10					
GAR-221	1	Spring, Brush					8X-308	1	Screw, Cover Band, Rd. hd., #10-32x1 3/8					
GBF-79	1	Bearing, Absorbent Bronze					8X-321	4	Screw, Mtg., Regulator, Rd. hd., #10-32x5/16					
GBM-1071R	1	Holder Assy., Main Brush					8X-794	1	Nut, Cover Band, Square, #10-32 1 2 3 4 5					
GAR-219	1	Arm, Brush					(Issued 3-14-44)							
GAR-221	1	Spring, Brush												
X-195	2	Washer, Lock, Brush Holder, #8												
8X-304	2	Screw, Holder Attaching, Rd. hd., #8-32x5/16												
GBM-1012A†	2	Brush, Main												
GBM-1013B†	1	Brush, Third												
GBW-69	1	Gasket, C.E. Cover												
GBW-72	1	Oil Guard												
GBW-73	1	Gasket, Oil Guard												
GBW-1068B	1	Cover, Comm. End												
GCJ-51	1	Spring, Retaining, 3rd Brush Plate												
X-195	4	Washer, Lock, Cover Sc., #8												
8X-311	1	Screw, Plate Retaining, Rd. hd., #10-32x3/8												
8X-888	4	Screw, Cover, Fill. hd., #8-32x5/16												
X-195	3	Washer, Lock, Brush Lead, #8												
8X-305	3	Screw, Brush Lead, Rd. hd., #8-32x1/4 1 2 3 4 5												

† Brush Set, Service, GBM-2012BS.



GBM-4808A GENERATOR ILLUSTRATION

# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBM-4808A GENERATOR PARTS LIST

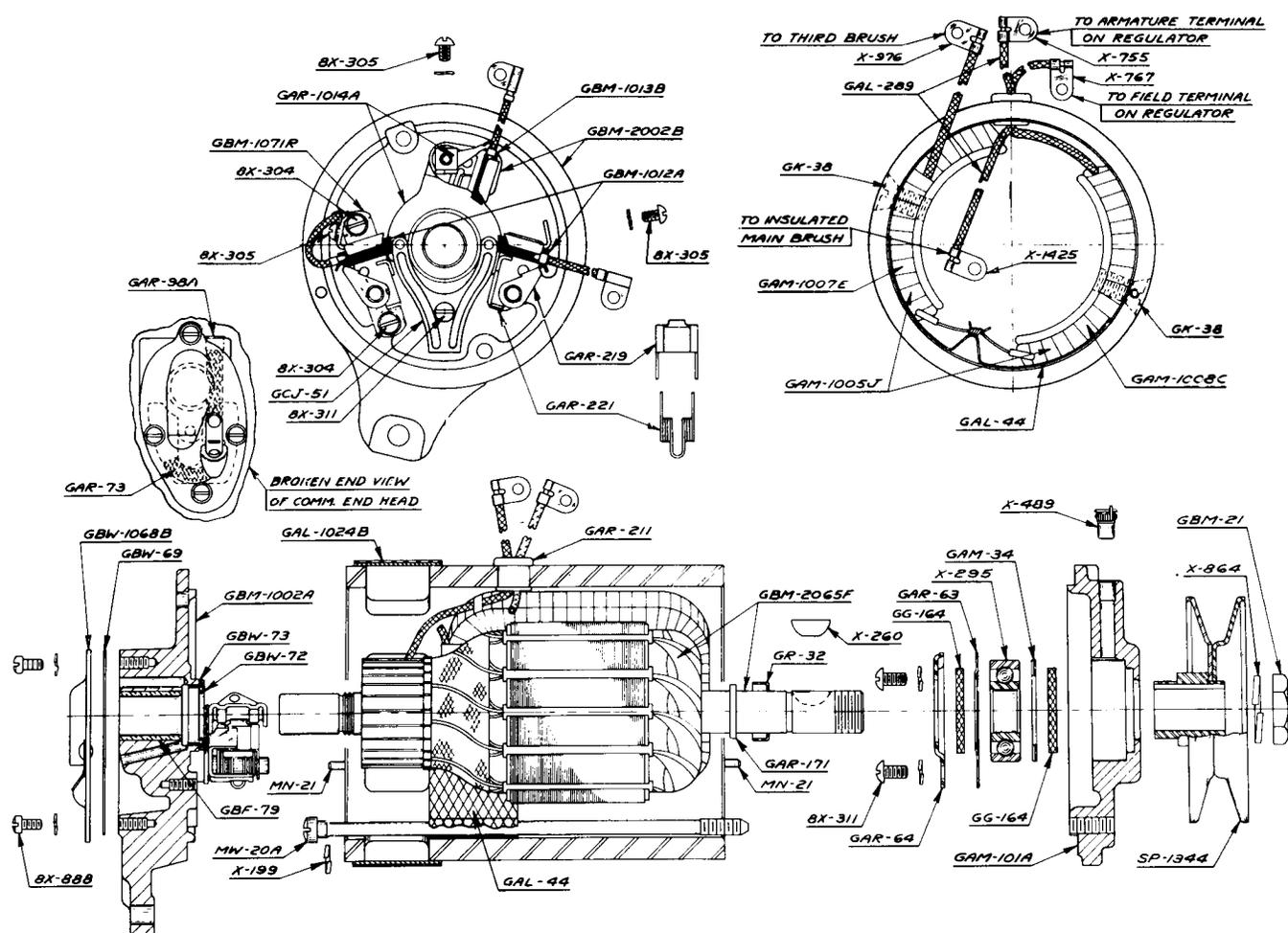
GBM-4808A

Frame & Field Assembly & Parts Used With					
Part No.	No. Used	Name of Part			
		1	2	3	4 5
(GBM-2067)	1	Frame & Field Assy.			
GAL-44	1	Insulation, Field Connection			
GAM-1005J	1	Coil Assy., Field, Comp.			
GAM-1007E	1	Coil Assy., Field, Left			
GAL-289	1	Lead Assy.			
X-755	1	Terminal			
X-1425	1	Terminal			
X-976	1	Terminal			
GAM-1008C	1	Coil Assy., Field, Right			
X-767	1	Terminal			
GAR-211	1	Bushing, Insulating			
GK-38	2	Screw, Pole Shoe			
MN-21	2	Pin, Dowel, Head Locating			
MW-20A	2	Bolt, Thru			
X-199	2	Washer, Lock, Thru Bolt, 1/4			
Comm. End Head Assembly & Parts Used With					
(GBM-2002B)	1	Head Assy., Comm. End			
GAR-73	1	Wick, Felt			
GAR-98A	1	Cover, Wick			
GAR-1014A	1	Plate, 3rd Brush			
GBM-1002A	1	Head Assy., Partial, C E.			
GAR-219	1	Arm, Brush			
GAR-221	1	Spring, Brush			
GBF-79	1	Bearing, Absorbent Bronze			
GBM-1071R	1	Holder Assy., Main Brush			
GAR-219	1	Arm, Brush			
GAR-221	1	Spring, Brush			
X-195	2	Washer, Lock, Brush Holder, #8			
8X-304	2	Screw, Holder Attaching, Rd. hd., #8-32x5/16			
GBM-1012A†	2	Brush, Main			
GBM-1013B†	1	Brush, Third			
GBW-69	1	Gasket, C.E. Cover			
GBW-72	1	Oil Guard			
GBW-73	1	Gasket, Oil Guard			
GBW-1068B	1	Cover, Comm. End			
GCJ-51	1	Spring, Retaining, 3rd Brush Plate			
X-195	4	Washer, Lock, Cover Sc., #8			
8X-311	1	Screw, Plate Retaining, Rd. hd., #10-32x3/8			
8X-888	4	Screw, Cover, Fill. hd., #8-32x5/16			
X-195	3	Washer, Lock, Brush Lead, #8			
8X-305	3	Screw, Brush Lead, Rd. hd., #8-32x1/4			
		1	2	3	4 5

Armature Assembly & Parts Used With					
Part No.	No. Used	Name of Part			
		1	2	3	4 5
GBM-21	1	Nut, Armature Shaft			
GBM-2065F	1	Armature Assy.			
GAR-171	1	Snap Ring			
GR-32	1	Retainer, Felt Washer			
SP-1344	1	Pulley, Drive			
X-260	1	Key, Woodruff, #5			
X-864	1	Washer, Lock, Arm. Shaft, .669			
Drive End Head Assembly & Parts Used With					
GAM-1101A	1	Head Assy., Drive End			
GAM-34	1	Retainer, Felt Washer, Outer			
GAM-101A	1	Head			
GAR-63	1	Retainer, Felt Washer, Inner			
GAR-64	1	Retainer, Bearing			
GG-164	2	Washer, Felt			
X-196	3	Washer, Lock, Retainer Sc., #10			
X-295	1	Bearing, Ball, S.A.E. #203			
8X-311	3	Screw, Retainer, Rd. hd., #10-32x3/8			
X-489	1	Oiler, Hinge Top, Press in, 1/4			
Miscellaneous Parts					
GAL-1024B	1	Band, Cover			
TC-4305C	1	Regulator			
X-196	4	Washer, Lock, Regulator Mtg., #10			
8X-308	1	Screw, Cover Band, Rd. hd., #10-32x1 3/8			
8X-321	4	Screw, Mtg., Regulator, Rd. hd., #10-32x5/16			
8X-794	1	Nut, Cover Band, Square, #10-32			
		1	2	3	4 5

(Issued 3-14-44)

† Brush Set, Service, GBM-2012BS.



GBM-4808A GENERATOR ILLUSTRATION

# ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBM-4809A.B GENERATOR PARTS LIST

GBM-4809A,B

Frame & Field Assembly & Parts Used With					
Part No.	No. Used	Name of Part			
		1	2	3	4 5
*	1	Frame & Field Assy.			
GAL-44	1	Insulation, Field Connection			
GAM-1005J	1	Coil Assy., Field, Comp.			
GAM-1007E	1	Coil Assy., Field, Left			
GAL-289	1	Lead Assy.			
X-755	1	Terminal			
X-1425	1	Terminal			
X-976	1	Terminal			
GAM-1008C	1	Coil Assy., Field, Right			
X-767	1	Terminal			
GAR-211	1	Bushing, Insulating			
GK-38	2	Screw, Pole Shoe			
MN-21	2	Pin, Dowel, Head Locating			
MW-20A	2	Bolt, Thru			
X-199	2	Washer, Lock, Thru Bolt, 1/4			
Comm. End Head Assembly & Parts Used With					
(GBM-2002)	1	Head Assy., Comm. End			
GAR-73	1	Wick, Felt			
GAR-98A	1	Cover, Wick			
GAR-1014A	1	Plate, 3rd Brush			
GBM-1002A	1	Head Assy., Partial, C.E.			
GAR-219	1	Arm, Brush			
GAR-221	1	Spring, Brush			
GBF-79	1	Bearing, Absorbent Bronze			
GBM-1071R	1	Holder Assy., Main Brush			
GAR-219	1	Arm, Brush			
GAR-221	1	Spring, Brush			
X-195	2	Washer, Lock, Brush Holder, #8			
8X-304	2	Screw, Holder Attaching, Rd. hd., #8-32x5/16			
GBM-1012A†	2	Brush, Main			
GBM-1013A†	1	Brush, Third			
GBW-69	1	Gasket, C.E. Cover			
GBW-72	1	Oil Guard			
GBW-73	1	Gasket, Oil Guard			
GBW-1068B	1	Cover, Comm. End			
GCJ-51	1	Spring, Retaining, 3rd Brush Plate			
X-195	4	Washer, Lock, Cover Sc., #8			
8X-311	1	Screw, Plate Retaining, Rd. hd., #10-32x3/8			
8X-888	4	Screw, Cover, Fil. hd., #8-32x5/16			
X-195	3	Washer, Lock, Brush Lead, #8			
8X-305	3	Screw, Brush Lead, Rd. hd., #8-32x1/4			
		1	2	3	4 5

Armature Assembly & Parts Used With					
Part No.	No. Used	Name of Part			
		1	2	3	4 5
GBM-21	1	Nut, Armature Shaft			
GBM-2065F	1	Armature Assy.			
GAR-171	1	Snap Ring			
GR-32	1	Retainer, Felt Washer			
SP-1344	1	Pulley, Drive			
X-260	1	Key, Woodruff, #5			
X-864	1	Washer, Lock, Arm. Shaft, .669			
Drive End Head Assembly & Parts Used With					
GAM-1101A	1	Head Assy., Drive End			
GAM-34	1	Retainer, Felt Washer, Outer			
GAM-101A	1	Head			
GAR-63	1	Retainer, Felt Washer, Inner			
GAR-64	1	Retainer, Bearing			
GG-164	2	Washer, Felt			
X-196	3	Washer, Lock, Retainer Sc., #10			
X-295	1	Bearing, Ball, S.A.E. #203			
8X-311	3	Screw, Retainer, Rd. hd., #10-32x3/8			
X-489	1	Oiler, Hinge Top, Press in, 1/4			
Miscellaneous Parts					
GAL-1024B	1	Band, Cover			
* ^	1	Regulator			
X-196	4	Washer, Lock, Regulator Mtg., #10			
8X-308	1	Screw, Cover Band, Rd. hd., #10-32x1 3/8			
8X-321	4	Screw, Mtg., Regulator, Rd. hd., #10-32x5/16			
8X-794	1	Nut, Cover Band, Square, #10-32			
		1	2	3	4 5
(Issued 3-14-44)					
	Assembly No.	Frame & Field Assy.,			
	GBM-4809A	GBM-2067	TC-4305E		
	GBM-4809B	GBM-2082	TC-4324A		

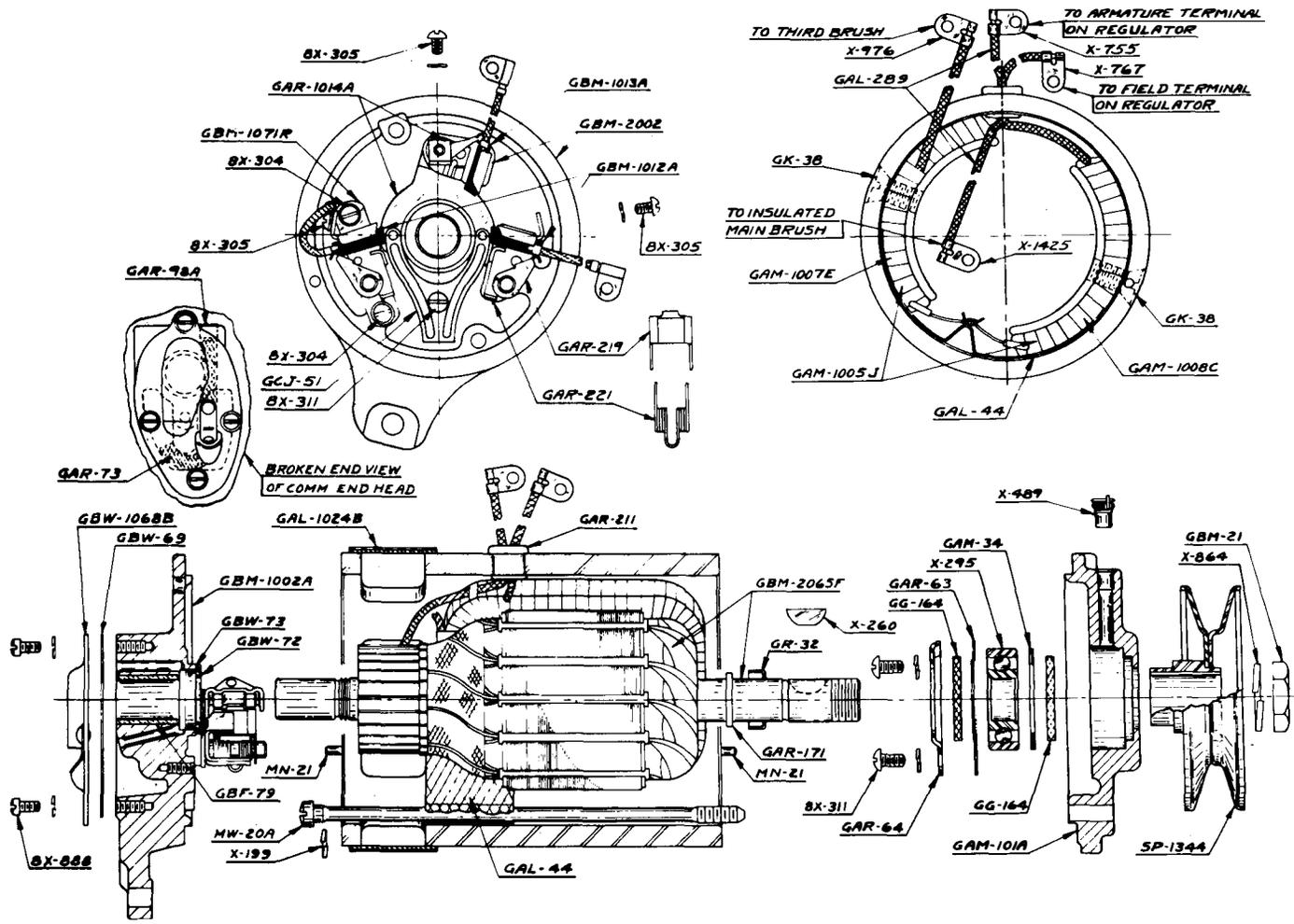
† Brush Set, Service, GBM-2012AS.

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

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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

GEM-4810A GENERATOR PARTS LIST

GEM-4810A

PRELIMINARY

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	
(GEM-2083)	1	Frame & Field Assy.					GEM-21	1	Armature Shaft Nut					
GAA-32	1	Term. Post Top Ins.					GEM-2065	1	ARMATURE ASSEMBLY					
GAL-44	1	Field Connection Ins.					GAR-171	1	Snap Ring					
GAM-29	2	Pole Piece					GR-32	1	Felt Washer Retainer					
GAM-1005K	1	FIELD COIL ASSY.-Comp.					SP-1178	1	Drive Pulley					
GAM-1007G	1	Field Coil Assy.-Left					X-260	1	#5 Woodruff Key					
X-976	1	Terminal					X-864	1	.669 Lock Washer					
GAM-1008	1	Field Coil Assy.-Right					<u>Drive End Head Assembly &amp; Parts Used With</u>							
X-959	1	Terminal					GBJ-1003C	1	Drive End Head Assy.					
GBW-66	1	Term. Post Bottom Ins.					GAR-63	2	Felt Guard					
GCT-25	1	Insulating Bushing					GAR-64	2	Bearing Retainer					
GDS-30	1	Lead Assembly					GBJ-3C	1	Drive End Head					
GAA-27	1	Terminal Post					GG-164	2	Felt Washer					
X-1611	1	Terminal					EX-173	3	#10-32 Hex. Nut					
GK-38	2	Pole Piece Screw					X-196	3	#10 Lock Washer					
MN-21	2	Dowel Pin					X-295	1	BALL BEARING - S.A.E. #203					
EX-140	1	#6-32 Hex. Nut					X-489	1	1/4 Oiler-Press in Type					
5X-177	1	#14-24 Hex. Nut					EX-1003	3	#10-32x7/8 Rd. Hd. Screw					
X-193	1	#14 Lock Washer					<u>Miscellaneous Parts</u>							
X-194	1	#6 Lock Washer					GAL-1024	1	Head Band Assy.					
EX-361	1	1/4 Plain Washer					X-714	1	#10-32x1 1/2 Rd. Hd. Screw					
EX-1008	1	#6-32x9/16 Rd. Hd. Sc.					EX-794	1	#10-32 Square Nut					
GJ-20	2	Frame Screw							1	2	3	4	5	
5X-177	1	#14-24 Hex. Nut					( Issued 10-31-41 )							
X-193	1	#14 Lock Washer												
X-199	2	1/4 Lock Washer												
<u>Comm. End Plate Assembly &amp; Parts Used With</u>														
(GEM-2075)	1	Comm. End Plate Assy.												
GAR-73	1	Oil Wick												
GAR-98A	1	Wick Cover												
GAR-1014A	1	3rd Br. Holder Plate Assy.												
GBM-1012A†	2	Brush - Main												
GBM-1013A†	1	Brush - Third												
GBM-1075A	1	C.E. Plate Part Assy.												
GAR-219	1	Brush Arm												
GAR-221	1	Brush Spring												
GBF-79	1	ABSORBENT BRONZE BRG.												
GBM-1071R	1	Main Brush Holder Assy.												
GAR-219	1	Brush Arm												
GAR-221	1	Brush Spring												
X-195	2	#8 Lock Washer												
EX-304	2	#8-32x5/16 Rd. Hd. Sc.												
GBW-69	1	Gasket												
GBW-72	1	Oil Guard												
GBW-73	1	Oil Retaining Gasket												
GBW-1068B	1	Comm. End Cap Cover												
G CJ-51	1	3rd Br. Plate Retaining Spring												
X-195	5	#8 Lock Washer												
EX-305	1	#8-32x1/4 Rd. Hd. So.												
EX-311	1	#10-32x3/8 Rd. Hd. So.												
EX-888	4	#8-32x5/16 Fill. Hd. So.												
X-195	2	#8 Lock Washer												
EX-305	2	#8-32x1/4 Rd. Hd. Screw												
		1	2	3	4	5								

† Service BRUSH SET GEM-2012AS.

UNIT	APPLICATION
GEM-4810A	Climax

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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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