

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GEM-4811 GENERATOR PARTS LIST

GEM-4811

PRELIMINARY

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
(GEM-3087)	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-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				
SX-140	1	#6-32 Hex. Nut				
SX-177	1	#14-24 Hex. Nut				
X-193	1	#14 Lock Washer				
X-194	1	#6 Lock Washer				
SX-361	1	1/4 Plain Washer				
SX-1008	1	#6-32x9/16 Rd. Hd. Sc.				
MW-20	2	Frame Screw				
SX-177	1	#14-24 Hex. Nut				
X-193	1	#14 Lock Washer				
X-199	2	1/4 Lock Washer				

Comm. End Plate Assembly & Parts Used With

DA-39	2	Flat Oil Guard				
DJ-10	1	End Cap Cover Gasket				
GAG-53	1	Comm. End Cap Cover				
(GEM-3086)	1	Comm. End Plate Assy.				
GEM-1012A†	2	Brush - Main				
GEM-1013A†	1	Brush - Third				
GEM-1086	1	C.E. Plate Part Assy.				
GAR-219	1	Brush Arm				
GAR-221	1	Brush Spring				
GEM-1071L	1	Main Br. Holder Assy.				
GAR-219	1	Brush Arm				
GAR-221	1	Brush Spring				
X-195	2	#8 Lock Washer				
SX-304	2	#8-32x5/16 Rd. Hd. Sc.				
G CJ-51	1	3rd Br. Plate Retaining Spring				
GDB-1014L	1	3rd Br. Plate Assy.				
X-195	1	#8 Lock Washer				
SX-305	1	#8-32x1/4 Rd. Hd. Sc.				
SX-311	1	#10-32x3/8 Rd. Hd. Sc.				
GR-32	1	Felt Washer Retainer				
GR-35	2	Felt Washer				
X-195	2	#8 Lock Washer				
X-295	1	BALL BEARING - S.A.E. #203				
SX-305	2	#8-32x1/4 Rd. Hd. Screw				
X-489	1	1/4 Oiler - Press in Type				
X-544	3	#10 Lock Washer				
SX-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
GEM-88	1	3/16 Square Key				
GEM-2085	1	ARMATURE ASSEMBLY				
GAR-171	2	Snap Ring				
GJ-104	2	Armature Shaft Spacer				
X-181	1	1/2-20 Hex. Nut				
X-1500	1	1/2 Skpf. Washer				

Drive End Head Assembly & Parts Used With

GCZ-1003A	1	Drive End Head Assy.				
GCZ-3A	1	Drive End Head				
GG-6	2	Bearing Retainer				
GG-164	1	Felt Washer				
GK-176	1	Felt Washer Retainer				
SX-173	3	#10-32 Hex. Nut				
X-196	3	#10 Lock Washer				
X-295	1	BALL BEARING - S.A.E. #203				
SX-316	3	#10-32x3/4 Rd. Hd. Screw				
X-489	1	1/4 Oiler-Press in Type				

Miscellaneous Parts

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

(Issued 10-31-41)

† Service BRUSH SET GEM-2012AS.

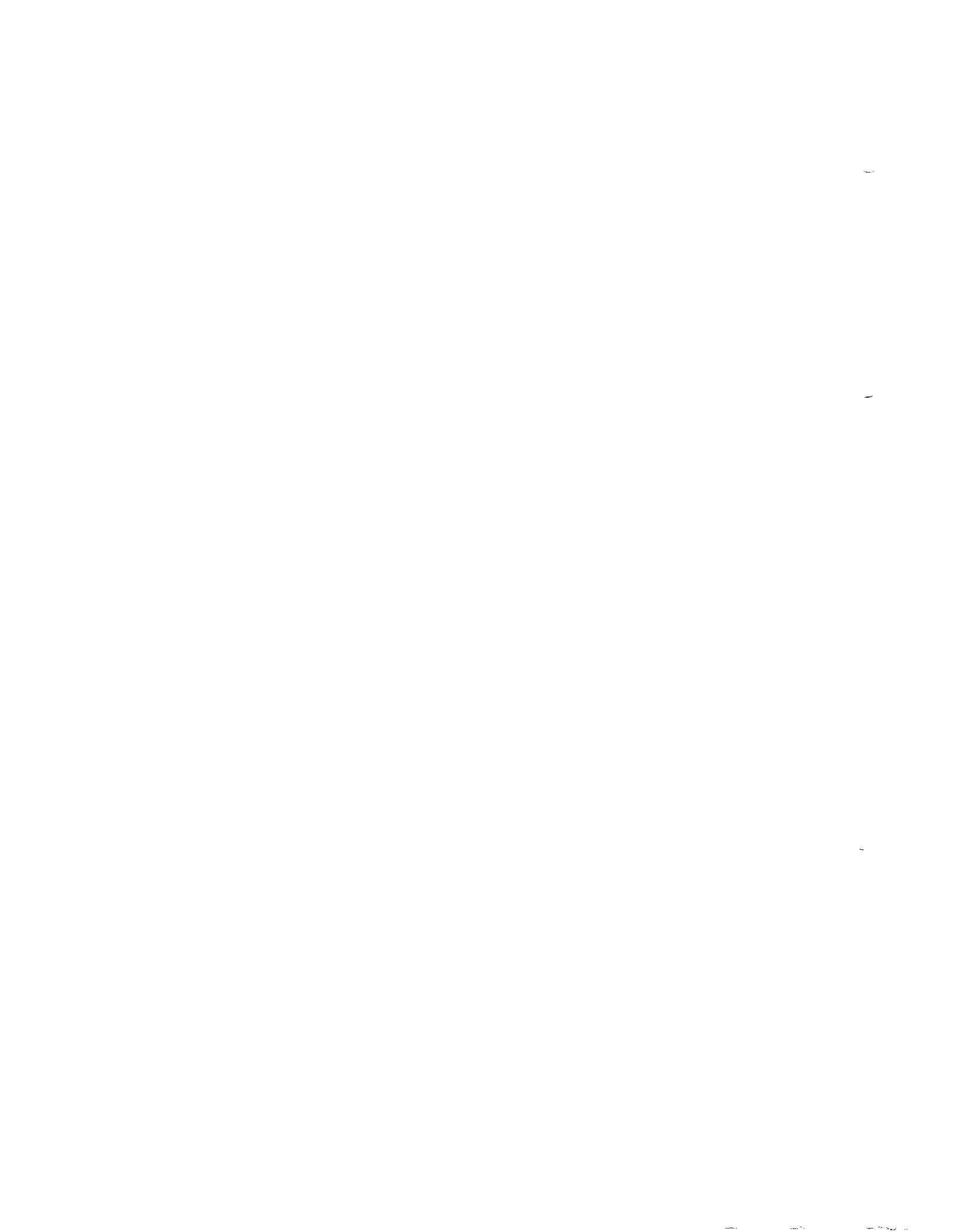
NOTE:- CB-4025 CIRCUIT BREAKER is used with but is not a part of this generator.

UNIT	APPLICATION
GEM-4811	Crosley Corp.

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Equipment & Parts List Binder

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBM-4812A GENERATOR PARTS LIST

GBM-4812A

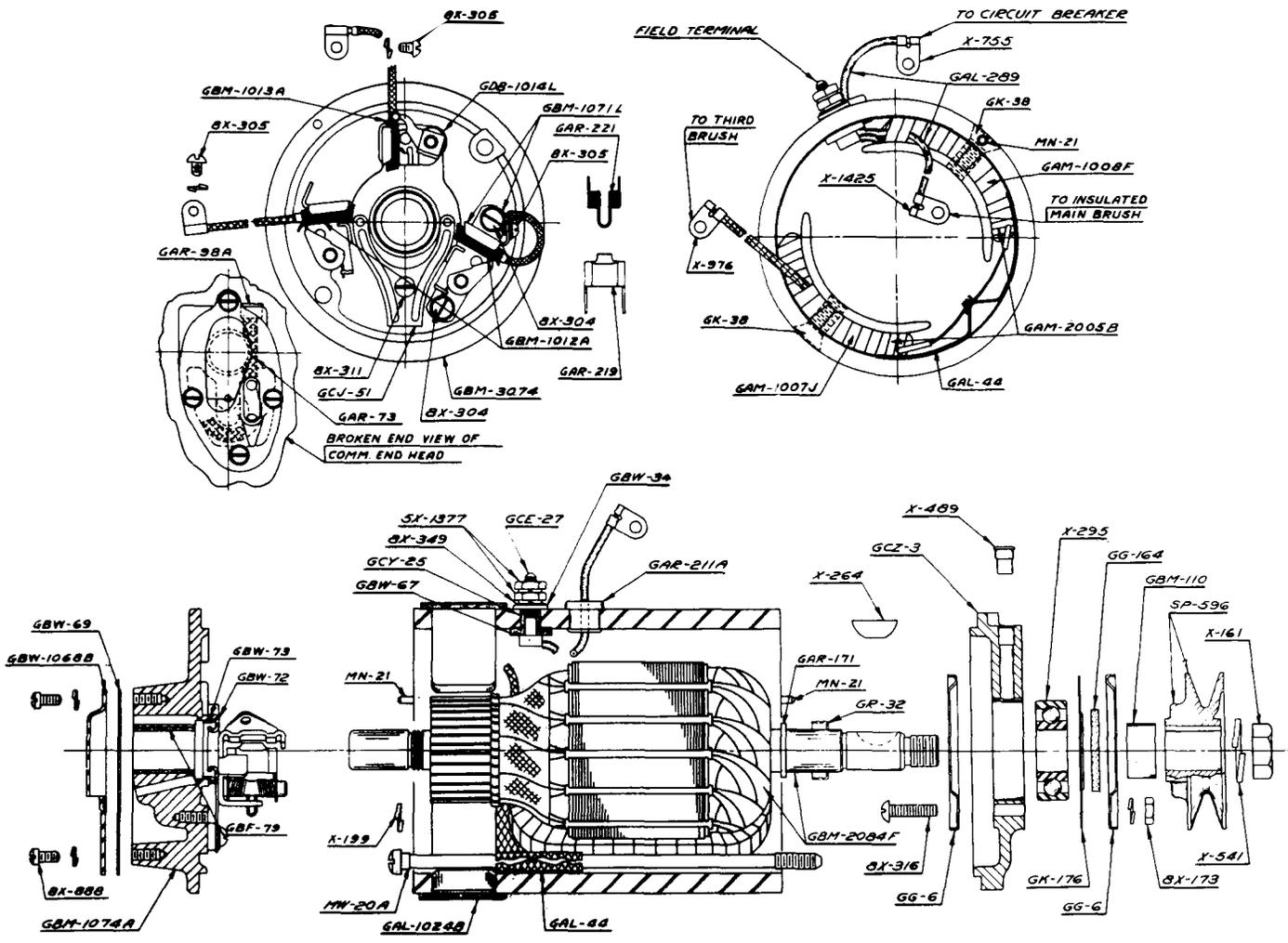
Frame & Field Assembly & Parts Used With					Comm. End Head Assembly (Continued)							
Part No.	No. Used	Name of Part			Part No.	No. Used	Name of Part					
		1	2	3	4	5	1	2	3	4	5	
(GBM-3080)	1	Frame & Field Assy.			X-195	3	Washer, Lock, Brush Lead, #8					
GAL-44	1	Insulation, Field Connection			8X-305	3	Screw, Brush Lead, Rd. hd., #8-32x1/4					
GAM-2005B	1	Coil Assy., Field, Comp.			<u>Armature Assembly & Parts Used With</u>							
GAM-1007J	1	Coil Assy., Field, Left			GBM-110	1	Spacer, Armature Shaft					
X-976	1	Terminal			GBM-2084F	1	Armature Assy.					
GAM-1008F	1	Coil Assy., Field, Right			GAR-171	1	Snap Ring					
GAL-289	1	Lead Assy.			GR-32	1	Retainer, Felt Washer					
X-755	1	Terminal			SP-596	1	Pulley, Drive					
X-1425	1	Terminal			X-161	1	Nut, Armature Shaft, Hex., 1/2-20					
GCE-27	1	Stud, Field Terminal, #10-32			X-264	1	Key, Woodruff, #9					
GAR-211A	1	Bushing, Insulating			X-541	1	Washer, Lock, Shaft, 1/2					
GBW-34	1	Washer, Ins., Term. Stud			<u>Drive End Head Assembly & Parts Used With</u>							
GBW-67	1	Insulation, Term. Stud, Inner			GCZ-1003	1	Head Assy., Drive End					
GCY-25	1	Bushing, Ins., Term. Stud			GCZ-3	1	Head					
GK-38	2	Screw, Pole Shoe			GG-6	2	Retainer, Bearing					
MN-21	2	Pin, Dowel, Head Locating			GG-164	1	Washer, Felt					
X-196	2	Washer, Lock, Term. Stud, #10			GK-176	1	Retainer, Felt Washer					
8X-349	1	Washer, Plain, Term. Stud, #10			8X-173	3	Nut, Retainer Screw, Hex., #10-32					
5X-1377	2	Nut, Term. Stud, #10-32			X-196	3	Washer, Lock, Retainer Screw, #10					
MW-20A	2	Bolt, Thru			X-295	1	Bearing, Ball, S.A.E. #203					
X-199	2	Washer, Lock, Thru Bolt, 1/4			8X-316	3	Screw, Retainer, Rd. hd., #10-32x3/4					
<u>Comm. End Head Assembly & Parts Used With</u>					X-489	1	Oiler, Hinge Top, Press in, 1/4					
(GBM-3074)	1	Head Assy., Comm. End			<u>Miscellaneous Parts</u>							
GAR-73	1	Wick, Felt			CB-4014	1	Relay Assy., Cutout					
GAR-98A	1	Cover, Wick			CB-123	1	Spring, Armature					
GBM-1012A†	2	Brush, Main			CB-160S	1	Cover					
GBM-1013A†	1	Brush, Third			PX-55	1	Screw, Arm. Term., Bdg. hd., #10-32x3/16					
GBM-1074A	1	Head Assy., Partial, C.E.			X-196	2	Washer, Lock, Term. Sc., #10					
GAR-219	1	Arm, Brush			8X-312	1	Screw, Bat. Term., Rd. hd., #10-32x1/4					
GAR-221	1	Spring, Brush			GAL-1024B	1	Band, Cover					
GBF-79	1	Bearing, Absorbent Bronze			X-196	2	Washer, Lock, Cutout Relay Mtg., #10					
GBM-1071L	1	Holder Assy., Main Brush			8X-308	1	Screw, Cover Band, Rd. hd., #10-32x1 3/8					
GAR-219	1	Arm, Brush			8X-321	2	Screw, Mtg., Cutout Relay, Rd. hd., #10-32x5/16					
GAR-221	1	Spring, Brush			8X-794	1	Nut, Cover Band, Square, #10-32					
X-195	2	Washer, Lock, Brush Holder Screw, #8					1 2 3 4 5					
8X-304	2	Screw, Holder Attaching, Rd. hd., #8-32x5/16			(Issued 3-14-44)							
GBW-69	1	Gasket, C.E. Cover										
GBW-72	1	Oil Guard										
GBW-73	1	Gasket, Oil Guard										
GBW-1068B	1	Cover, Comm. End										
GCJ-51	1	Spring, Retaining, 3rd Brush Plate										
GDB-1014L	1	Plate, 3rd Brush										
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										
		1	2	3	4	5						

† Brush Set, Service, GBM-2012AS.

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GBM-4812A GENERATOR ILLUSTRATION

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBM-4813-5,A-5 GENERATOR PARTS LIST

GBM-4813-5,A-5

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
(GBM-2079)	1	Frame & Field Assy.	GBM-2084F	1	ARMATURE ASSY.
GAL-44	1	Insulation, Field Connection	GAR-171	1	Snap Ring
GAM-2005C	1	COIL ASSY., FIELD, COMPLETE	*	1	Spacer, Arm. Shaft
GAM-1007J	1	Coil Assy., Field, Left	GR-32	1	Retainer, Felt Washer
X-976	1	Terminal	*	1	Pulley, Drive
GAM-1008G	1	Coil Assy., Field, Right	X-161	1	Nut, Arm. Shaft, Hex. 1/2-20
GAL-289	1	Lead Assy.	X-264	1	Key, Woodruff, #9
X-755	1	Terminal	X-541	1	Lockwasher, Shaft, 1/2
X-1425	1	Terminal			
X-767	1	Terminal			
GAR-211	1	Bushing, Insulating			
GK-38	2	Screw, Pole Shoe			
MN-21	2	Pin, Dowel			
MW-20A	2	Bolt, Thru			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
<u>Comm. End Head Assembly & Parts Used With</u>			<u>Drive End Head Assy. & Parts Used With</u>		
GBM-3074	1	Head Assy., Comm. End	GCZ-1003A	1	Head Assy., Drive End
GAR-73	1	Wick, Felt	GCZ-3A	1	Head
GAR-98A	1	Cover, Wick	GG-6	2	Retainer, Bearing
GBM-1012A†	2	Brush, Main	GG-164	1	Washer, Felt
GBM-1013A†	1	Brush, Third	GK-176	1	Retainer, Felt Washer
GBM-1074A	1	Head Assy., Partial, C.E.	GK-173	3	Nut, Retainer Sc., Hex. #10-32
GAR-219	1	Arm, Brush	X-196	3	Lockwasher, Retainer Sc., #10
GAR-221	1	Spring, Brush	X-295	1	BEARING, BALL, S.A.E. #203
GBF-79	1	BEARING, ABSORBENT BRONZE	8X-316	3	Screw, Retainer, Rd. Hd. #10-32x3/4
GBM-1071L	1	Holder Assy., Main Brush	X-489	1	Ciler
GAR-219	1	Arm, Brush			
GAR-221	1	Spring, Brush			
12X-195	2	Lockwasher, Br. Holder Sc., #8			
8X-304	2	Screw, Br. Holder, 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			
GDB-1014L	1	Plate, 3rd Brush			
12X-195	4	Lockwasher, Cover Sc., #8			
8X-311	1	Screw, Spring, Rd. Hd. #10-32x3/8			
8X-888	4	Screw, Cover, Fill. Hd. #8-32x5/16			
12X-195	3	Lockwasher, Brush Lead Sc., #8			
8X-305	3	Screw, Brush Lead, Rd. Hd. #8-32x1/4			
			<u>Miscellaneous Parts</u>		
			GAL-1024B	1	Band, Cover
			TC-4327A	1	REGULATOR, TWO CHARGE
			12X-196	4	Lockwasher, Regulator Mtg. Sc., #10
			8X-321	4	Screw, Regulator 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
			Assembly No.	Spacer	Pulley
			GBM-4813-5	GJ-104	None
			GBM-4813A-5	GBM-110	SP-596
			† BRUSH SET, SERVICE GBM-2012AS.		
			* See table following parts list for part numbers applying to assembly wanted.		

UNIT	APPLICATION
GBM-4813-5,A-5	Allis Chalmers

(Issued 10-15-48)

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1

2

3

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBM-4814A-1 GENERATOR PARTS LIST

GBM-4814A-1

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
(GBM-2107)	1	Frame & Field Assy.	GBM-21B	1	Nut, Armature Shaft
GAL-44	1	Insulation, Field Conn.	GBM-2065F	1	ARMATURE ASSY.
GAM1005J	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., C.B.	SP-1178A	1	Pulley, Drive
X-755	1	Terminal	X-260	1	Key, Woodruff #5
X-1425	1	Terminal	X-864	1	Lockwasher, Arm. Shaft
X-976	1	Terminal			
GAM-1008C	1	Coil Assy., Field, Right	Drive End Head Assembly & Parts Used With		
X-767	1	Terminal	GBJ-1003C	1	Head Assy., Drive End
GAR-211	1	Bushing, Insulating	GAR-63	2	Retainer, Felt Washer
GK-38	2	Screw, Pole Shoe	GAR-64	2	Retainer, Bearing
MN-21	2	Pin, Dowel	GBJ -3C	1	Head
MW-20A	2	Bolt, Thru	GG-164	2	Washer, Felt
X-199	2	Lockwasher, Thru Bolt, 1/4	8X-173	3	Nut, Retainer Sc. Hex., #10-32
			X-196	3	Lockwasher, Retainer Sc. #10
			X-295	1	BEARING, BALL, S.A.E. #203
			X-489	1	Oiler, Press in Type, 1/4
			8X-1003	3	Screw, Retainer, Rd. Hd. #10-32x7/8
Comm. End Head Assembly & Parts Used With			Miscellaneous Parts		
GBM-2075	1	Head Assy., Comm. End	GAL-1024	1	Band, Cover
GAR-73	1	Wick, Felt	TC-4302A	1	REGULATOR, TWO CHARGE
GAR-98A	1	Cover, Wick	X-196	4	Lockwasher, Regulator Mtg. #10
GAR-1014A	1	Plate, 3rd. Brush	8X-321	4	Screw, Mtg. Regulator Rd. Hd. #10-32x5/16
GBM-1012A†	2	Brush, Main	8X-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
GBM-1075A	1	Head Assy., Partial, Comm. End			
GAR-219	1	Arm, Brush			
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, Brush Holder #8			
8X-304	2	Screw, Brush Holder, 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			
12X-195	4	Lockwasher, C.E. Cover #8			
8X-311	1	Screw, Retaining, Spring, Rd. Hd. #10-32x3/8			
8X-888	4	Screw, C.E. Cover, Fil. Hd. #8-32x5/16			
X-195	3	Lockwasher, Brush Lead, #8			
8X-305	3	Screw, Brush Lead, Rd. Hd., #8-32x1/4			

† BRUSH SET, SERVICE, GBM-2012AS.

UNIT	APPLICATION
GBM-4814A-1	Fairmont

(Issued 8-24-48)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBM-4816A GENERATOR PARTS LIST

GBM-4816A

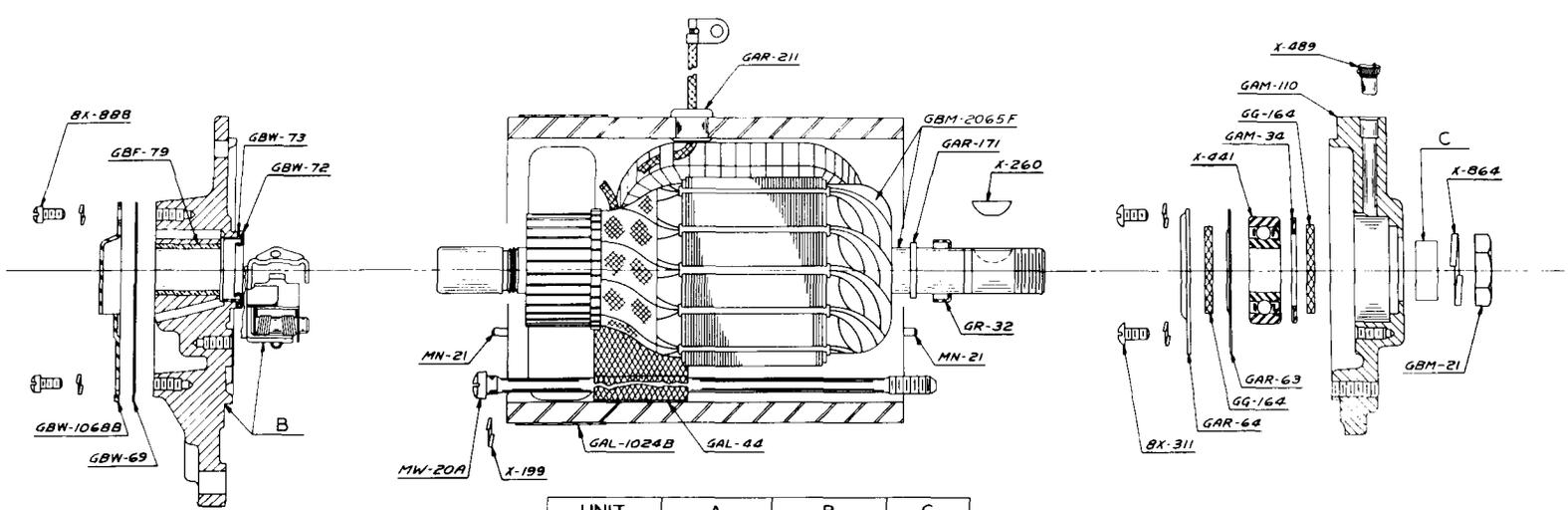
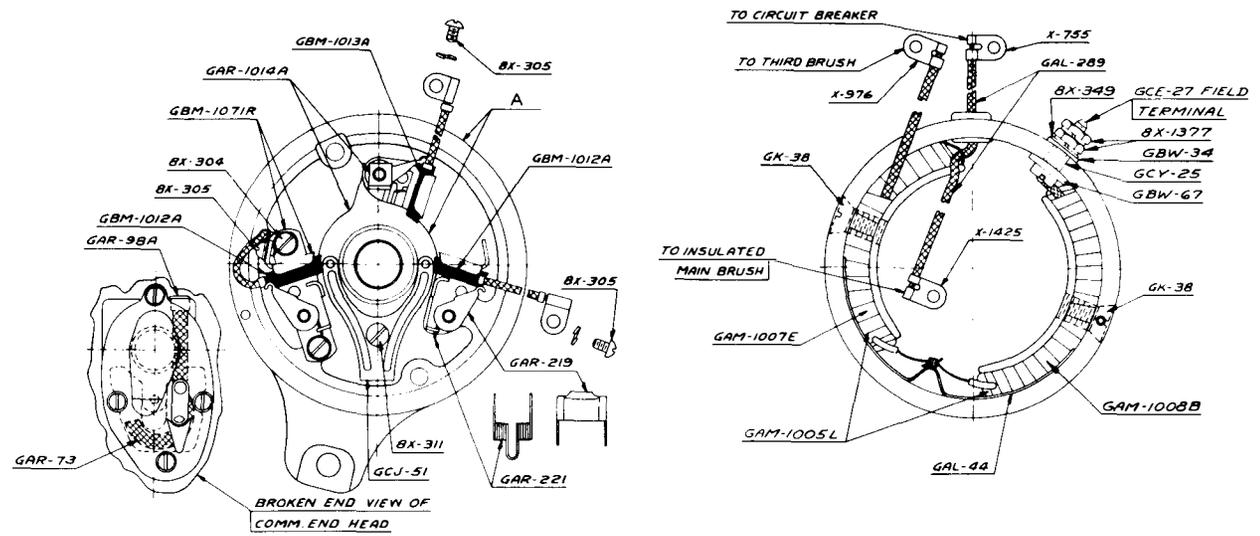
Frame & Field Assembly & Parts Used With			Comm. End Head Assembly (Continued)		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
(GBM-2108)	1	Frame & Field Assy.	8X-888	4	Screw, Cover, Fill. Hd., #8-32x5/16
GAL-44	1	Insulation, Field Connection	X-195	3	Washer, Lock, Brush Lead, #8
GAM-1005L	1	Coil Assy., Field, Comp.	8X-305	3	Screw, Brush Lead, Rd. Hd., #8-32x1/4
GAM-1007E	1	Coil Assy., Field, Left	<u>Armature Assembly & Parts Used With</u>		
GAL-289	1	Lead Assy.	GBM-21	1	Nut, Armature Shaft
X-755	1	Terminal	GBM-2065F	1	Armature Assy.
X-1425	1	Terminal	GAR-171	1	Snap Ring
X-976	1	Terminal	GR-32	1	Retainer, Felt Washer
GAM-1008B	1	Coil, Field, Right	SP-495	1	Pulley, Drive
GCE-27	1	Stud, Field Terminal, #10-32	X-260	1	Key, Woodruff, #5
GAR-211	1	Bushing, Insulating	X-864	1	Washer, Lock, Arm. Shaft, .669
GBW-34	1	Washer, Ins., Term. Stud	<u>Drive End Head Assembly & Parts Used With</u>		
GBW-67	1	Insulation, Term. Stud, Inner	GAM-1110	1	Head Assy., Drive End
GCY-25	1	Bushing, Ins., Term. Stud	GAM-34	1	Retainer, Felt Washer, Outer
GK-38	2	Screw, Pole Shoe	GAM-110	1	Head
MN-21	2	Pin, Dowel, Head Locating	GAR-63	1	Retainer, Felt Washer, Inner
X-196	2	Washer, Lock, Term. Stud, #10	GAR-64	1	Retainer, Bearing
8X-349	1	Washer, Plain, Term. Stud, #10	GG-164	2	Washer, Felt
8X-1377	2	Nut, Term. Stud, Hex., #10-32	X-196	3	Washer, Lock, Retainer Sc., #10
MW-20A	2	Bolt, Thru	8X-311	3	Screw, Retainer, Rd. Hd., #10-32x3/8
X-199	2	Washer, Lock, Thru Bolt, 1/4	X-441	1	Bearing, Ball, Shielded, S.A.E. #203
<u>Comm. End Head Assembly & Parts Used With</u>			X-489	1	Oilier, Hinge Top, Press in, 1/4
(GBM-2109)	1	Head Assy., Comm. End	<u>Miscellaneous Parts</u>		
GAR-73	1	Wick, Felt	CB-4012A	1	Relay Assy., Cutout
GAR-98A	1	Cover, Wick	CB-123	1	Spring, Armature
GAR-1014A	1	Plate, 3rd Brush	CB-160S	1	Cover
GBM-1012A †	2	Brush, Main	TC-128	1	Gasket, Cover
GBM-1013A †	1	Brush, Third	PX-55	1	Screw, Arm. Term., Bdg. Hd. #10-32x3/16
GBM-1109A	1	Head Assy., Partial, C.E.	X-196	2	Washer, Lock, Term. Sc., #10
GAR-219	1	Arm, Brush	8X-312	1	Screw, Batt. Term., Rd. Hd., #10-32x1/4
GAR-221	1	Spring, Brush	GAL-1024B	1	Band, Cover
GBF-79	1	Bearing, Absorbent Bronze	X-196	2	Washer, Lock, Cutout Relay Mtg., #10
GBM-1071R	1	Holder Assy., Main Brush	8X-308	1	Screw, Cover Band, Rd. Hd. #10-32x1 3/8
GAR-219	1	Arm, Brush	8X-321	2	Screw, Mtg., Cutout Relay, Rd. Hd. #10-32x5/16
GAR-221	1	Spring, Brush	8X-794	1	Nut, Cover Band, Square, #10-32
X-195	2	Washer, Lock, #8	† Brush Set, Service GBM-2012AS.		
8X-304	2	Screw, Rd. Hd., #8-32x5/16	(Issued 3-14-44)		
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			

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GBM-4816A GENERATOR ILLUSTRATION



UNIT	A	B	C
GBM-4816A	GBM-2109	GBM-1109A	SP-495

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBM-4818A-1,B-1 GENERATOR PARTS LIST

GBM-4818A-1,B-1

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
(GAM-2095)	1	Frame & Field Assy.
GAL-44	1	Insulation, Field Connection
GAM-1005F	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-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 Grd. Sc., Hex. #6-32
X-194	1	Lockwasher, Field Grd. Sc., #6
8X-1008	1	Screw, Field Grd., Rd. Hd. #6-32x9/16
GJ-20	2	Bolt, Thru
X-199	2	Lockwasher, Thru Bolt, 1/4

Comm. End Head Assembly & Parts Used With

GAR-2224S	1	Head Assy., Comm. End
GAR-73	1	Wick, Felt
GAR-98A	1	Cover, Wick
GAR-1014B	1	Plate Assy., 3rd Brush
GAR-219	1	Arm, Brush
GAR-221	1	Spring, Brush
GAR-1224A	1	Head Assy., Partial, C.E.
GAR-219	2	Arm, Brush
GAR-221	2	Spring, Brush
GBF-79	1	BEARING, ABSORBENT BRONZE
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
12X-195	4	Lockwasher, Cover Sc., #8
8X-311	1	Screw, Spring, Rd. Hd. #10-32x3/8
8X-888	4	Screw, Cover, Fill. Hd. #8-32x5/16
GBM-2012AS	1	BRUSH SET, SERVICE
X-195	3	Lockwasher, Brush 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
*	1	Nut, Armature Shaft
GBM-2006F	1	ARMATURE ASSY.
GAR-171	1	Snap Ring
GR-32	1	Retainer, Felt Washer
*	1	Pulley, Drive
X-260	1	Key, Woodruff, #5
X-864	1	Lockwasher, Shaft

Drive End Head Assembly & Parts Used With

GBJ-1003C	1	Head Assy., Drive End
GAR-63	2	Retainer, Felt Washer
GAR-64	2	Retainer, Bearing
GBJ-3C	1	Head
GG-164	2	Washer, Felt
8X-173	3	Nut, Retainer Sc., Hex. #10-32
X-196	3	Lockwasher, Retainer Sc., #10
X-295	1	BEARING, BALL, S.A.E. #203
X-489	1	Oiler
8X-1003	3	Screw, Retainer, Rd. Hd. #10-32x7/8

Miscellaneous Parts

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	Lockwasher, Term. Sc., #10
8X-312	1	Screw, Bat. Term., Rd. Hd. #10-32x1/4
GAL-1024	1	Band, Cover
X-196	2	Lockwasher, Relay Mtg. Sc., #10
8X-321	2	Screw, Relay Mtg., 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

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

Assembly No.	Nut	Pulley
GBM-4818A-1	GBM-21B	SP-153
GBM-4818B-1	SP-357	SP-460

UNIT	APPLICATION
GBM-4818A-1	Hercules
GBM-4818B-1	Firebaugh

(Issued 10-15-48)

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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-4819A GENERATOR PARTS LIST

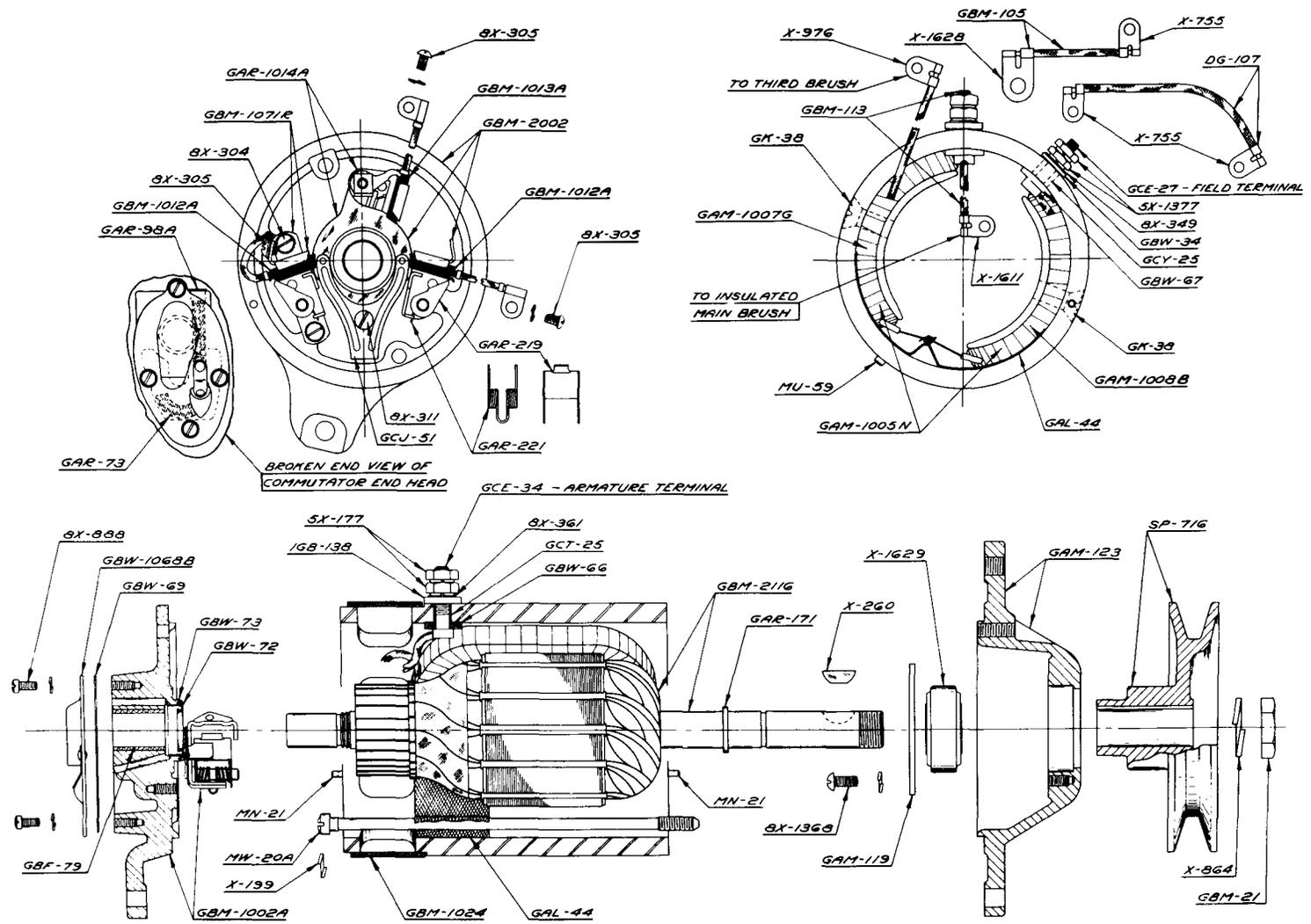
GBM-4819A

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
(GBM-2091)	1	Frame & Field Assy.					GBW-69	1	Gasket, C.E. Cover				
GAL-44	1	Insulation, Field Conn.					GBW-72	1	Oil Guard				
GAM-1005N	1	Coil Assy., Field, Comp.					GBW-73	1	Gasket, Oil Guard				
GAM-1007G	1	Coil Assy., Field, Left					GBW-1068B	1	Cover, Comm. End				
X-976	1	Terminal					GCJ-51	1	Spring, Retaining, 3rd Brush Plate				
GAM-1008B	1	Coil, Field, Right					X-195	4	Washer, Lock, Cover Sc., #8				
GBM-113	1	Lead Assy., Arm. Term.					8X-311	1	Screw, Plate Retaining, Rd. hd. #10-32x3/8				
GCE-34	1	Stud, Arm. Term., #14-24					8X-888	4	Screw, Cover, Fil. hd., #8-32x5/16				
X-1611	1	Terminal					X-195	3	Washer, Lock, Brush Lead, #8				
GBW-34	1	Washer, Ins., Field Term.					8X-305	3	Screw, Brush Lead, Rd. hd., #8-32x1/4				
GBW-66	1	Insulation, Arm. Term., Inner					<u>Armature Assembly & Parts Used With</u>						
GBW-67	1	Insulation, Field Term., Inner					GBM-21	1	Nut, Armature Shaft				
GCE-27	1	Stud, Field Term., #10-32					GBM-2116	1	Armature Assy.				
GCT-25	1	Bushing, Arm. Terminal					GAR-171	1	Snap Ring				
GCY-25	1	Bushing, Field Terminal					SP-716	1	Pulley, Drive				
GK-38	2	Screw, Pole Shoe					X-260	1	Key, Woodruff, #5				
IGB-138	1	Washer, Ins., Arm. Term.					X-864	1	Washer, Lock, Arm. Shaft, .669				
MN-21	2	Pin, Dowel, Head Locating					<u>Drive End Head Assembly & Parts Used With</u>						
MU-59	1	Pin, Dowel, Generator Aligning					GAM-1123	1	Head Assy., Drive End				
5X-177	2	Nut, Arm. Term., Hex., #14-24					GAM-119	1	Retainer, Bearing				
X-193	2	Washer, Lock, Arm. Term., #14					GAM-123	1	Head, Drive End				
X-196	2	Washer, Lock, Field Term., #10					X-196	3	Washer, Lock, Retainer Screw, #10				
8X-349	1	Washer, Plain, Field Term., #10					8X-1368	3	Screw, Retainer, Rd. hd., #10-32x7/16				
8X-361	1	Washer, Plain, Arm. Term., 1/4					X-1629	1	Bearing, Ball, Sealed, S.A.E. #203				
5X-1377	2	Nut, Field Term., Hex., #10-32					<u>Miscellaneous Parts</u>						
MW-20A	2	Bolt, Thru					DG-107	1	Lead Assy., Field Term. To Reg.				
X-199	2	Washer, Lock, Thru Bolt, 1/4					X-755	2	Terminal				
<u>Comm. End Head Assembly & Parts Used With</u>						GBM-105	1	Lead Assy., Arm. Term. To Reg.					
(GBM-2002)	1	Head Assy., Comm. End					X-755	1	Terminal				
GAR-73	1	Wick, Felt					X-1628	1	Terminal				
GAR-98A	1	Cover, Wick					GBM-1024	1	Band, Cover				
GAR-1014A	1	Plate, 3rd Brush					TC-4327A	1	Regulator, Two Charge				
GBM-1002A	1	Head Assy., Partial, C.E.					X-196	4	Washer, Lock, Regulator Mtg., #10				
GAR-219	1	Arm, Brush					8X-321	4	Screw, Mtg., Regulator, Rd. hd., #10-32x5/16				
GAR-221	1	Spring, Brush					8X-715	1	Screw, Cover Band, Rd. hd., #10-32x1 1/4				
GBF-79	1	Bearing, Absorbent Bronze					8X-794	1	Nut, Cover Band, Square, #10-32				
GBM-1071R	1	Holder, Assy., Main Brush							1	2	3	4	5
GAR-219	1	Arm, Brush					(Issued 4-15-44)						
GAR-221	1	Spring, Brush					† Brush Set, Service, GBM-2012AS.						
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											
		1	2	3	4	5							

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GBM-4819A GENERATOR ILLUSTRATION

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBM-4821A-5 GENERATOR PARTS LIST

GBM-4821A-5

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
(GBM-2121)	1	Frame & Field Assy.	GBM-21B	1	Nut, Armature Shaft
GAL-44	1	Insulation, Field Connection	GBM-2065F	1	Armature Assy.
GAM-1005L	1	Coil Assy., Field, Complete	GAR-171	1	Snap Ring
GAM-1007E	1	Coil Assy., Field, Left	GR-32	1	Retainer, Felt Washer
GAL-289	1	Lead Assembly	SP-774	1	Pulley, Drive
X-755	1	Terminal	X-260	1	Key, Woodruff, #5
X-1425	1	Terminal	12X-864	1	Lockwasher, Arm. Shaft
X-976	1	Terminal			
GAM-1008B	1	Coil, Field, Right	Drive End Head Assy. & Parts Used With		
GCE-27	1	Stud, Term., #10-32	GAM-1110S	1	Head Assy., Drive End
GAR-211	1	Bushing, Insulating	GAM-34	1	Retainer, Felt Washer, Outer
GBW-34	1	Washer, Ins., Term. Stud	GAM-110S	1	Head
GBW-67	1	Insulation, Term. Stud, Inner	GAR-63	1	Retainer, Felt Washer, Inner
GCY-25	1	Bushing, Ins., Term. Stud	GAR-64	1	Retainer, Bearing
GK-38	2	Screw, Pole Shoe	GG-164	2	Washer, Felt
MN-21	2	Pin, Dowel	X-196	3	Lockwasher, Retainer Screw, #10
X-196	2	Lockwasher, Term. Stud, #10	8X-311	3	Screw, Retainer, Rd. Hd. #10-32x3/8
8X-349	1	Washer, Plain, Term. Stud, #10	X-441	1	Bearing, Ball, Shielded, S.A.E. #203
8X-1377	2	Nut, Term. Stud, #10-32	X-489	1	Oiler
MW-20A	2	Bolt, Thru			
12X-199	2	Washer, Lock, Thru Bolt, 1/4			
			Miscellaneous Parts		
Comm. End Head Assembly & Parts Used With			CB-4014	1	Relay Assy., Cut-Out
GBM-2002S	1	Head Assy., Comm. End	CB-123	1	Spring, Armature
GAR-73	1	Wick, Felt	EB-160S	1	Cover
GAR-98A	1	Cover, Wick	PX-55	1	Screw, Arm. Term., Bdg. Hd., #10-32x3/16
GAR-1014A	1	Plate, 3rd, Brush	X-196	2	Lockwasher, Term. Screw, #10
GBM-1002A	1	Head Assy., Partial, C.E.	8X-312	1	Screw, Bat. Term., Rd. Hd. #10-32x1/4
GAR-219	1	Arm, Brush	GAL-1024F	1	Band, Cover
GAR-221	1	Spring, Brush	X-196	2	Lockwasher, Relay Mtg. Sc. #10
GBF-79	1	Bearing, Abs. Bronze	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
GBM-1071R	1	Holder Assy., Main Brush	8X-321	2	Screw, Relay Mtg., Rd. Hd. #10-32x5/16
GAR-219	1	Arm, Brush	8X-794	1	Nut, Cover Band, Square #10-32
GAR-221	1	Spring, Brush			
X-195	2	Lockwasher, Brush Holder Sc., #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			
X-195	4	Lockwasher, Cover Sc., #8			
8X-311	1	Screw, Spring, Rd. Hd. #10-32x3/8			
8X-888	4	Screw, Cover, Fill. Hd. #8-32x5/16			
GBM-2012AS	1	Brush Set, Service			
X-195	3	Lockwasher, Br. Lead Sc. #8			
8X-305	3	Screw, Br. Lead. Rd. Hd. #8-32x1/4			

UNIT	APPLICATION
GBM-4821A-5	Massey Harris

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBM-4822A-5, BN-5 GENERATOR PARTS LIST

GBM-4822A-5, BN-5

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
(GBM-2123)	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
GFE-37	2	Bushing, Insulating
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

GBM-2002C	1	Head Assy., Comm. End
GAR-73	1	Wick, Felt
GAR-98A	1	Cover, Wick
GAR-1014A	1	Plate, 3rd Brush
GBM-1002E	1	Head Assy., Partial, Comm. End
GAR-219	1	Arm, Brush
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
12X-195	2	Lockwasher, Br. Holder Sc., #8
8X-304	2	Screw, Brush Holder, Rd. Hd. #8-32x5/16
GBM-1012A†	2	Brush, Main
GBM-1013A†	1	Brush, Third
GBW-30E	1	Cover, Comm. End
GBW-69	1	Gasket, Cover
GBW-72	1	Oil Guard
GBW-73	1	Gasket, Oil Retaining
GCJ-51	1	Spring, Retaining, 3rd Brush Plate
12X-195	4	Lockwasher, Cover Sc., #8
8X-311	1	Screw, Spring, Rd. Hd. #10-32x3/8
8X-888	4	Screw, C.E. Cover, Fill. Hd. #8-32x5/16
X-2961	1	Oiler
12X-195	3	Lockwasher, Brush 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
GBM-21B	1	Nut, Arm. Shaft
GBM-2065F	1	ARMATURE ASSEMBLY
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

Drive End Head Assembly & Parts Used With

GAM-1101D	1	Head Assy., Drive End
GAM-34	1	Retainer, Felt Washer
GAM-101	1	Head
GAR-63	1	Retainer, Felt Washer, Inner
GAR-64	1	Retainer, Bearing
GG-164	2	Washer, Felt
GDJ-118	1	Wick, Felt
12X-196	3	Lockwasher, Retainer Sc., #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

Miscellaneous Parts

GAL-1024F	1	Band, Cover
*	1	REGULATOR, TWO CHARGE
12X-196	4	Lockwasher, Regulator Mtg. Sc., #10
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-321	4	Screw, Regulator Mtg., Rd. Hd. #10-32x5/16
8X-794	1	Nut, Cover Band, Square #10-32

† BRUSH SET, SERVICE GBM-2012AS.

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

Assembly No.	Spacer	Pulley Drive	Regulator
GBM-4822A-5	None	SP-1344	TC-4327E
GBM-4822BN-5	GDZ-91	SP-898	TC-4327F

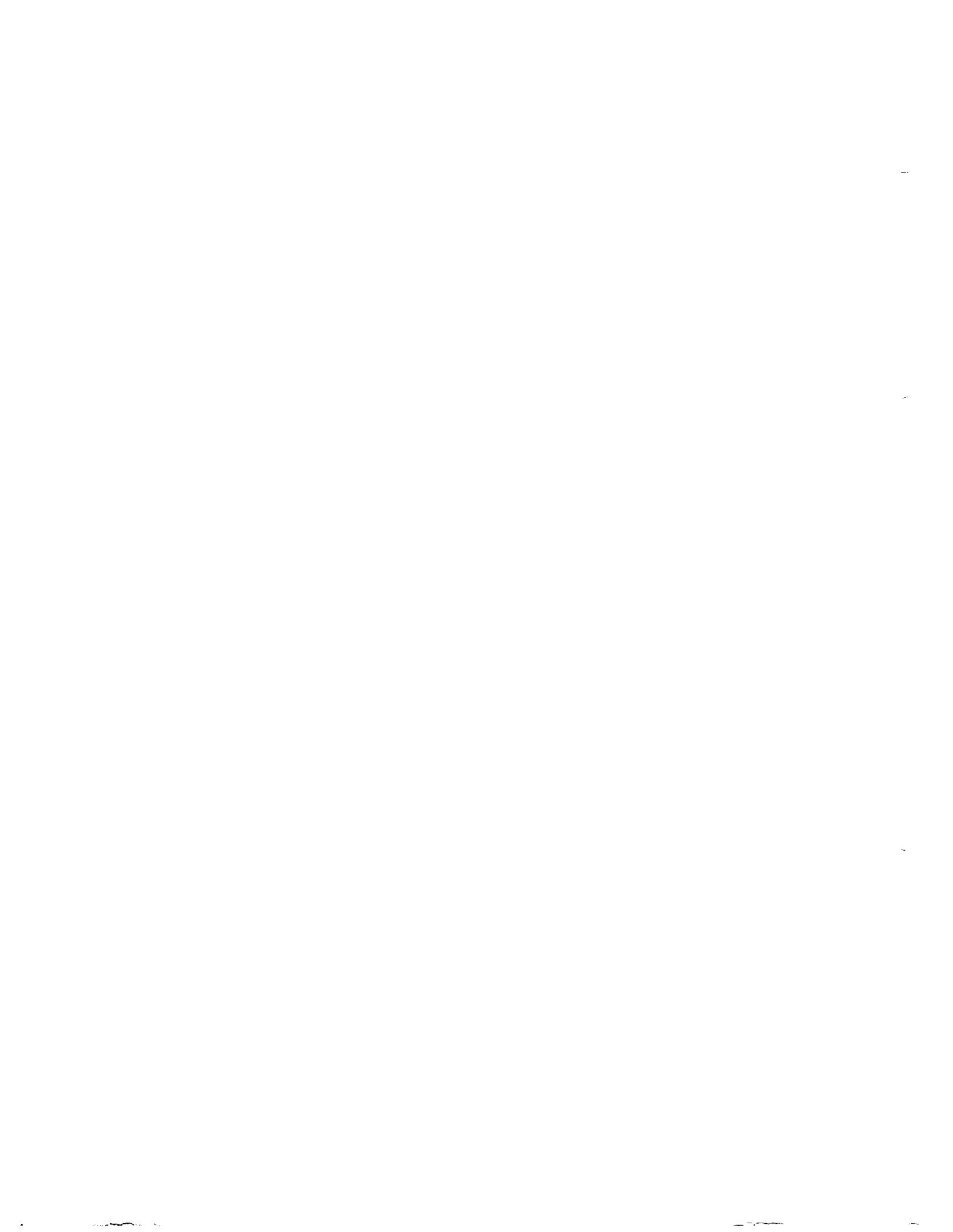
UNIT	APPLICATION
GBM-4822A-5	Hercules, Cockshutt
GBM-4822BN-5	Hercules

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBM-4823A-5 GENERATOR PARTS LIST

GBM-4823A-5

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				
(GBM-2001A)	1	Frame & Field Assy.	8X-311	1	Screw, Plate Retaining, Rd. Hd. #10-32x3/8				
GAL-44	1	Insulation, Field Connection	8X-888	4	Screw, C.E. Cover, Fill. Hd. #8-32x5/16				
GAM-1005L	1	COIL ASSY., FIELD, COMPLETE	X-2961	1	Oiler				
GAM-1007E	1	Coil Assy., Field, Left	12X-195	3	Lockwasher, Brush Lead Sc., #8				
GAL-289	1	Lead Assy.	8X-305	3	Screw, Brush Lead, Rd. Hd. #8-32x1/4				
X-755	1	Terminal	Armature Assembly & Parts Used With						
X-1425	1	Terminal	GBM-21B	1	Nut, Arm. Shaft				
X-976	1	Terminal	GBM-2065F	1	ARMATURE ASSY.				
GAM-1008B	1	Coil, Field, Right	GAR-171	1	Snap Ring				
GCE-27	1	Stud, Terminal, #10-32	GR-32	1	Retainer, Felt Washer				
GBF-55	1	Washer, Ins., Term. Stud, Outer	SP-383A	1	Pulley, Drive				
GBW-67	1	Insulation, Square, Term. Stud, Inner	X-260	1	Key, Woodruff, #5				
GCY-25	1	Bushing, Ins., Term. Stud	12X-864	1	Lockwasher, Shaft				
GFE-37	1	Bushing, Lead Insulating	Drive End Head Assembly & Parts Used With						
GK-38	2	Screw, Pole Shoe	GGR-1003	1	Head Assy., Drive End				
MN-21	2	Pin, Dowel	GBM-124	1	Gasket, Bearing Retainer				
12X-196	2	Lockwasher, Term. Stud, #10	GBM-125	1	Retainer, Felt Washer, Inner				
8X-349	1	Washer, Plain, Term. Stud, #10	GBM-127	1	Retainer, Bearing				
8X-1377	2	Nut, Term. Stud, Hex. #10-32	GBM-128	1	Retainer, Felt Washer, Outer				
MW-20A	2	Bolt, Thru	GG-164A	2	Washer, Felt				
12X-199	2	Lockwasher, Thru Bolt, 1/4	GGR-3	1	Head				
Comm. End Head Assembly & Parts Used With			12X-196	3	Lockwasher, Retainer Sc., #10				
GGR-2002	1	Head Assy., Comm. End	8X-311	3	Screw, Retainer, Rd. Hd. #10-32x3/8				
GAR-73	1	Wick, Felt	X-441	1	BEARING, BALL, S.A.E. #203				
GAR-98A	1	Cover, Wick	X-2961	1	Oiler				
GAR-1014A	1	Plate, 3rd Brush	Miscellaneous Parts						
GBM-126	1	Packing	CB-4012A	1	RELAY ASSY., CUTOUT				
GBM-1012A†	2	Brush, Main	CB-123	1	Spring, Armature				
GBM-1013 †	1	Brush, Third	CB-160S	1	Cover				
GBW-30E	1	Cover, Comm. End	TC-128	1	Gasket, Cover				
GBW-69	1	Gasket, Cover	PX-55	1	Screw, Arm. Term., Bdg. Hd. #10-32x3/16				
GBW-72	1	Oil Guard	12X-196	2	Lockwasher, Term. Sc., #10				
GBW-73	1	Gasket, Oil Retaining	8X-312	1	Screw, Bat. Term., Rd. Hd. #10-32x1/4				
GCJ-51	1	Spring, Retaining, 3rd Brush Plate	GAL-1024F	1	Band, Cover				
GGR-1002A	1	Head Assy., Partial, C.E.	12X-196	2	Lockwasher, Relay Mtg. Sc., #10				
GAR-219	1	Arm, Brush	8X-321	2	Screw, Relay Mtg., Rd. Hd. #10-32x5/16				
GAR-221	1	Spring, Brush	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2				
GBF-79	1	BEARING, ABS. BRONZE	8X-794	1	Nut, Cover Band, Square #10-32				
GBM-1071R	1	Holder Assy., Main Brush	† BRUSH SET, SERVICE GBM-2012CS.						
GAR-219	1	Arm, Brush	<table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <th style="padding: 5px;">UNIT</th> <th style="padding: 5px;">APPLICATION</th> </tr> <tr> <td style="padding: 5px;">GBM-4823A-5</td> <td style="padding: 5px;">J.I. Case</td> </tr> </table>			UNIT	APPLICATION	GBM-4823A-5	J.I. Case
UNIT	APPLICATION								
GBM-4823A-5	J.I. Case								
GAR-221	1	Spring, Brush							
12X-195	2	Lockwasher, Brush Holder Sc., #8							
8X-304	2	Screw, Br. Holder, Rd. Hd. #8-32x5/16							
12X-195	4	Lockwasher Cover Sc., #8							

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBM-4901A GENERATOR PARTS LIST

GBM-4901A

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	
(GBM-2091)	1	Frame & Field Assy.			X-195	3	Washer, Lock, Plate Sc., #8		
GAL-44	1	Insulation, Field Connection			8X-1349	3	Screw, Plate Attaching, Fil. hd., #8-32x3/8		
GAM-1005N	1	Coil Assy., Field, Comp.			X-195	3	Washer, Lock, Brush Lead, #8		
GAM-1007G	1	Coil Assy., Field, Left			8X-305	3	Screw, Brush Lead, Rd. hd., #8-32x1/4		
X-976	1	Terminal			<u>Armature Assembly & Parts Used With</u>				
GAM-1008B	1	Coil, Field, Right			GBM-21	1	Nut, Armature Shaft		
GBM-113	1	Lead Assy., Arm. Term.			GBM-2106	1	Armature Assy.		
GCE-34	1	Stud, Arm. Term., #14-24			GAR-171	1	Snap Ring		
X-1611	1	Terminal			SP-1468	1	Pulley, Drive		
GBW-34	1	Washer, Ins., Field Term.			X-260	1	Key, Woodruff, #5		
GBW-66	1	Insulation, Arm. Term., Inner			X-864	1	Washer, Lock, Arm. Shaft, .669		
GBW-67	1	Insulation, Field Term., Inner			<u>Drive End Head Assembly & Parts Used With</u>				
GCE-27	1	Stud, Field Term., #10-32			GAM-1118	1	Head Assy., Drive End		
GCT-25	1	Bushing, Arm. Terminal			GAM-118	1	Head		
GCY-25	1	Bushing, Field Terminal			GAM-119	1	Retainer, Bearing		
GK-38	2	Screw, Pole Shoe			X-196	3	Washer, Lock, Retainer Sc., #10		
IGB-138	1	Washer, Ins., Arm. Term.			8X-1368	3	Screw, Retainer, Rd. hd., #10-32x7/16		
MN-21	2	Pin, Dowel, Head Locating			X-1629	1	Bearing, Ball, Sealed, S.A.E. #203		
MU-59	1	Pin, Dowel, Gen. Aligning			<u>Miscellaneous Parts</u>				
5X-177	2	Nut, Arm. Term., Hex., #14-24			DG-107	1	Lead Assy., Field Term. to Reg.		
X-193	2	Washer, Lock, Arm. Term., #14			X-755	2	Terminal		
X-196	2	Washer, Lock, Field Term., #10			GBM-105	1	Lead Assy., Arm. Term. to Reg.		
8X-349	1	Washer, Plain, Field Term., #10			X-755	1	Terminal		
8X-361	1	Washer, Plain, Arm. Term., 1/4			X-1628	1	Terminal		
5X-1377	2	Nut, Field Term., Hex., #10-32			GBM-1024	1	Band, Cover		
MW-20A	2	Bolt, Thru			TC-4327A	1	Regulator		
X-199	2	Washer, Lock, Thru Bolt, 1/4			X-196	4	Washer, Lock, Regulator Mtg., #10		
<u>Comm. End Head Assembly & Parts Used With</u>					8X-321	4	Screw, Mtg., Regulator, Rd. hd., #10-32x5/16		
(GBM-2092)	1	Head Assy., Comm. End			8X-715	1	Screw, Cover Band, Rd. hd., #10-32x1 1/4		
GAR-1014A	1	Plate, 3rd Brush			8X-794	1	Nut, Cover Band, Square, #10-32 1 2 3 4 5		
GBM-98	1	Washer, Spring, Plate Retaining			(Issued 3-14-44)				
GBM-1012A†	2	Brush, Main							
GBM-1013A†	1	Brush, Third							
GBM-1092	1	Head Assy., Partial, C.E.							
GBM-92	1	Head							
GBM-99	1	Gasket, Bearing Retainer							
GBM-100	1	Bearing, Absorbent Bronze							
GBM-101	1	Retainer, Bearing							
GBM-102	1	Washer, Felt							
X-537	4	Washer, Lock, Retainer Screw, #10							
8X-902	4	Screw, Retainer, Fil. hd., #10-32x3/8							
GBM-1093	1	Plate Assy., Main Brush							
GAR-219	2	Arm, Brush							
GAR-221	2	Spring, Brush							

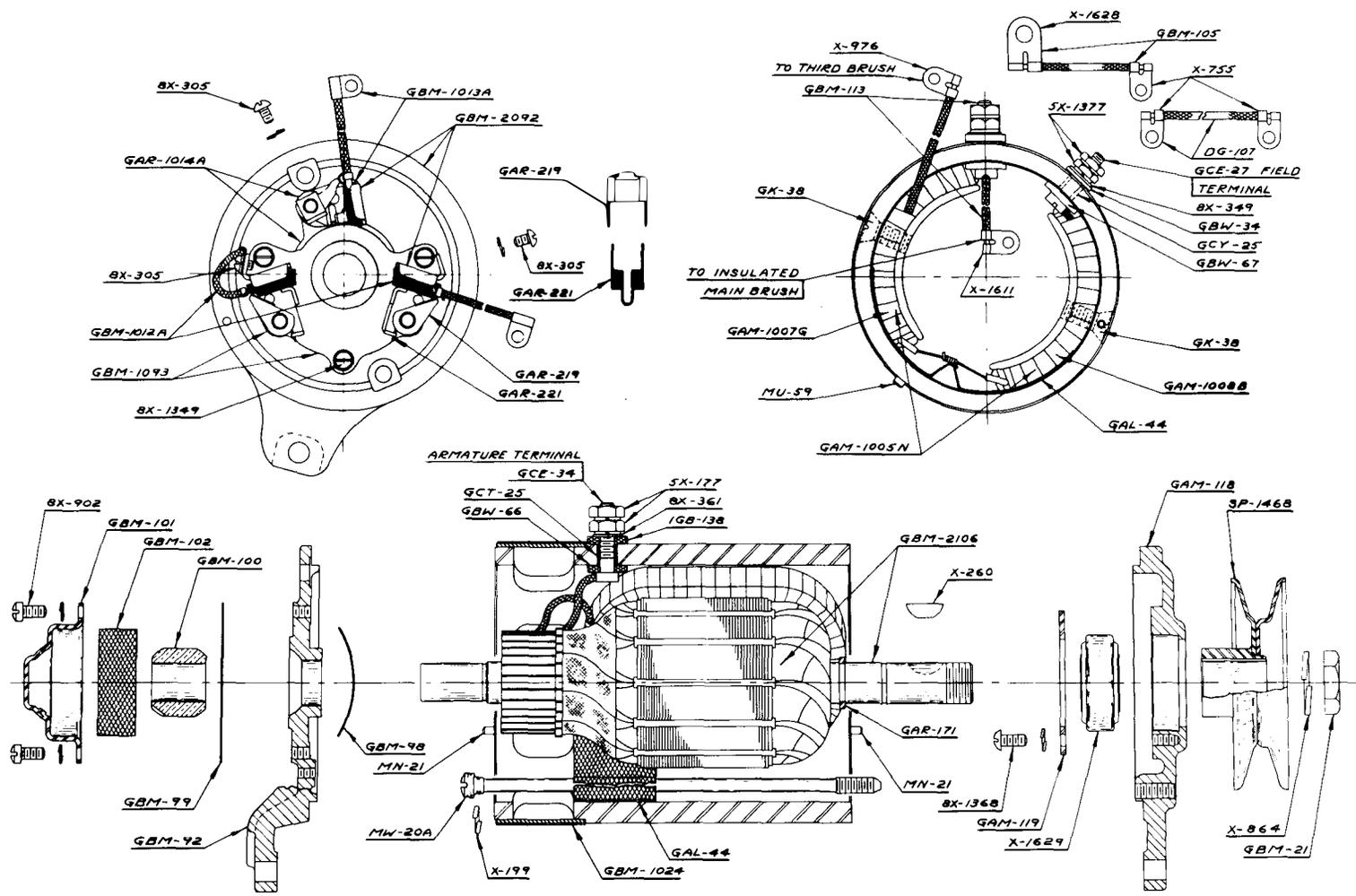
† Brush Set, Service, GBM-2012AS.

1 2 3 4 5

“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.”

File in
Equipment & Parts List Binder

GBM-4901A GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBO-4301 GENERATOR PARTS LIST

GBO-4301

Frame & Field Assembly & Parts Used With					Armature Assembly & Parts Used With										
Part No.	No. Used	Name of Part	1	2	3	4	5	Part No.	No. Used	Name of Part	1	2	3	4	5
DG-130	2	Frame Screw						DG-73	1	Armature Shaft Sleeve					
(GBB-2110)	1	Frame & Field Assy.						DG-2129	1	Armature Assembly					
DD-13	4	Pole Piece						<u>Drive End Head Assembly & Parts Used With</u>							
DG-42	1	Insulating Bushing						DG-1076	1	Drive End Head Assy.					
GBB-1005B	1	Field Coil Assy. - Comp.						DG-72	2	Felt Guard - with Oil Well					
GBB-1007E	1	Field Coil Assy. - U.R.						DG-74	2	Bearing Retainer					
DG-65	1	C.B. Lead Assy.						DG-76	1	D.E. Head					
X-755	1	Terminal						G-118	2	Felt Washer					
GBB-1008	1	Field Coil - L.L.						8X-173	3	#10-32 Hex. Nut					
GBB-1009	1	Field Coil - L.R.						X-196	3	#10 Lock Washer					
GBB-1010	1	Field Coil Assy. - U.L.						X-300A	1	Ball Brg. - S.A.E. #205					
X-767	1	Terminal						8X-306	3	#10-32x1 Rd. Hd. Screw					
GBC-45	1	Field Connection Ins.						X-489	1	1/4 Oiler - Press in Type					
GBC-46	2	Field Connection Ins.						<u>Miscellaneous Parts</u>							
MN-21	2	Dowel Pin						GBC-2039B	1	Head Band Assembly					
SB-8	8	Pole Piece Screw						TC-4310A	1	Two Charge Regulator					
X-755	2	Terminal						8X-118	1	#10-32x3/4 Fill. Hd. Screw					
8X-159	2	38-24 Hex. Nut						X-196	4	#10 Lock Washer					
X-201	2	3/8 Lock Washer						8X-321	4	#10-32x5/16 Rd. Hd. Screw					
<u>Comm. End Plate Assembly & Parts Used With</u>															
DA-22	1	Bearing Retaining Washer													
DA-60	1	Bearing Retaining Screw													
DB-17	1	Felt Guard													
DD-24C	1	End Cap Cover													
DD-44	1	End Cap Cover Gasket													
DG-75	1	Bearing Spacer													
(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													
GBB-1012†	2	Brush - Main													
GBB-1013†	1	Brush - Third													
GBB-1018	1	3rd Brush Holder Plate Assembly													
DJ-18	1	Brush Holder													
DJ-19	1	Brush Spring													
GBB-1018S	1	Br. Holder Plate Part Assembly													
8X-54	1	#8-32x1/2 Rd. Hd. Sc.													
X-195	1	#8 Lock Washer													
GBB-2073	1	Brush Holder Plate Assy.													
DJ-18	2	Brush Holder													
DJ-19	2	Brush Spring													
GBB-2073S	1	Br. Holder Plate Part Assembly													
8X-56	1	#8-32x7/16 Rd. Hd. Sc.													
X-195	2	#8 Lock Washer													
8X-304	1	#8-32x5/16 Rd. Hd. Sc.													
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													
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-870	3	#10-32x5/16 Fill. Hd. Screw													
			1	2	3	4	5								

(Issued 11-18-36)

† Service Brush Set GBB-2012A.

Printed in U. S. A.

File in
Equipment & Parts Lists Binder

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBR-4501 GENERATOR PARTS LIST

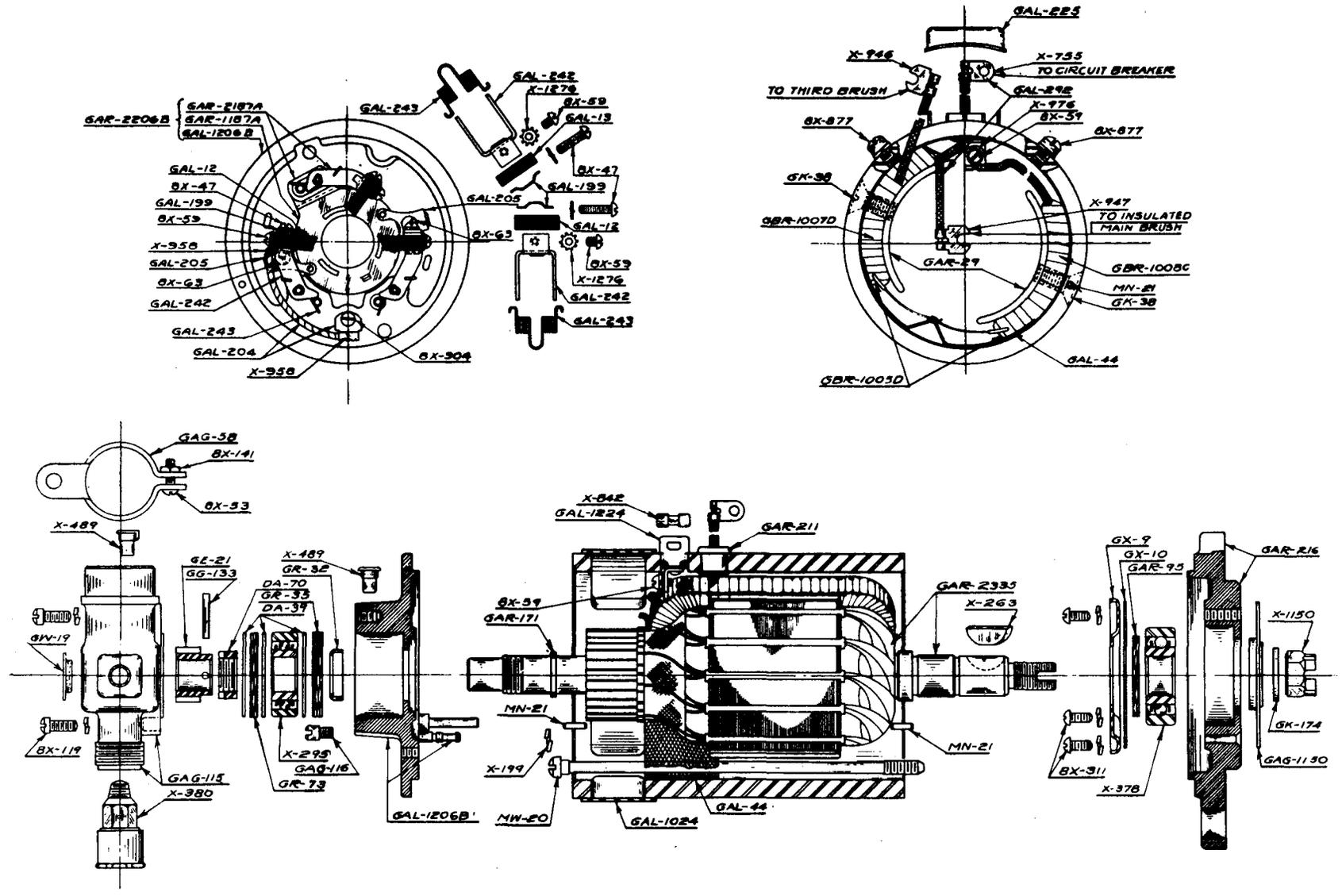
GBR-4501

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					GAG-1150	1	Oil Guard				
(GBR-2215)	1	Frame & Field Assembly					GAR-2335	1	Armature Assembly				
GAL-44	1	Field Connection Ins.					GAR-171	1	Snap Ring				
GAL-1224	1	Fuse Holder					GK-174	1	1/2 Plain Washer				
GAR-29	2	Pole Piece					X-263	1	#8 Woodruff Key				
GAR-211	1	Insulating Bushing					X-1150	1	1/2-20 Castellated Nut				
GBR-1005D	1	Field Coil Assy. - Comp.					<u>Drive End Head Assembly & Parts Used With</u>						
GER-1007D	1	Field Coil Assy. - Left					GAR-1216	1	Drive End Head Assy.				
GAL-292	1	C.B. Lead Assy.					GAR-95	1	Felt Washer				
X-755	1	Terminal					GAR-216	1	Drive End Head				
X-947	1	Terminal					GX-9	1	Bearing Retainer				
X-946	1	Terminal					GX-10	1	Gasket				
GBR-1008C	1	Field Coil Assy. - Right					X-196	3	#10 Lock Washer				
X-976	1	Terminal					8X-311	3	#10-32x3/8 Rd. Hd. Screw				
GK-38	2	Pole Piece Screw					X-378	1	Ball Brg. - Oil Seal - S.A.E. #204				
MN-21	2	Dowel Pin					<u>Dist. Mounting Housing & Parts Used With</u>						
8X-59	1	#8-32x3/16 Rd. Hd. Screw					GAG-58	1	Dist. Mtg. Housing Clamp				
X-195	1	#8 Lock Washer					GAG-115	1	Dist. Mounting Housing				
MW-20	2	Frame Screw					GE-21	1	Dist. Gear - Driver				
X-199	4	1/4 Lock Washer					GG-133	1	Dist. Drive Rivet				
X-842	1	Fuse - 5 Ampere					GW-19	1	Bearing Cover				
8X-877	2	1/4-20x5/16 Fill. Hd. Screw					8X-53	1	#8-32x5/8 Rd. Hd. Screw				
<u>Comm. End Plate Assembly & Parts Used With</u>						8X-119	2	#10-32x1/2 Fill. Hd. Screw					
DA-39	3	Flat Oil Guard					8X-141	1	#8-32 Hex. Nut				
DA-70	1	Armature Shaft Nut					X-380	1	1/8 Grease Cup				
GAG-116	1	Dowel Pin Screw - #10-32					X-489	1	1/4 Oiler - Press in Type				
(GAR-2206B)	1	Comm. End Plate Assembly					X-544	2	#10 Lock Washer				
GAL-121	2	Brush - Main					<u>Miscellaneous Parts</u>						
GAL-199	2	Brush Screw Block					CB-4014	1	Circuit Breaker Assy.				
GAL-204	1	Ground Connector Assy.					CB-123	1	Armature Spring				
X-958	2	Terminal					CB-160	1	C.B. Cover				
GAL-205	2	3rd Brush Plate Retain'g Spring					PX-55	1	#10-32x3/16 Bdg. Hd. Screw				
GAL-242	2	Brush Holder					X-196	2	#10 Lock Washer				
GAL-243	2	Brush Spring					8X-312	1	#10-32x1/4 Rd. Hd. Screw				
GAL-1206B	1	C.E. Plate Part Assy.					GAL-1024	1	Head Band Assembly				
GAR-2187A	1	3rd Brush Plate Assy.					X-196	2	#10 Lock Washer				
GAL-131	1	Brush - Third					8X-321	2	#10-32x5/16 Rd. Hd. Screw				
GAL-199	1	Brush Screw Block					X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
GAL-242	1	Brush Holder					8X-794	1	#10-32 Square Nut				
GAL-243	1	Brush Spring							1	2	3	4	5
GAR-1187A	1	3rd Br. Holder Plate Part Assembly					(Issued 1-18-37)						
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	#8-32x9/16 Rd. Hd. Screw											
8X-59	2	#8-32x3/16 Rd. Hd. Screw											
8X-63	2	#8-32x3/8 Flat Hd. Screw											
X-195	4	#8 Lock Washer											
8X-304	1	#8-32x5/16 Rd. Hd. Screw											
X-1276	1	#8 Skpf. Washer											
GR-32	1	Felt Washer Retainer											
GR-35	1	Felt Washer											
GR-73	1	Felt Washer											
X-295	1	Ball Brg. - S.A.E. #203											
X-489	1	1/4 Oiler - Press in Type											
		1	2	3	4	5							

† Service Brush Set GAL-2012.

"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."

GBR-4501 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBR-4502 GENERATOR PARTS LIST

GBR-4502

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GAL-225	1					Fuse Cover
(GBR-3225)	1					Frame & Field Assy.
GAL-44	1					Field Connection Ins.
GAL-1224	1					Fuse Holder
GAR-29	2					Pole Piece
GAR-211	1					Ins. Bushing
GBR-2005	1					Field Coil Assy.-Comp.
GBR-1008C	1					Field Coil Assy.-Right
X-576	1					Terminal
GBR-2007	1					Field Coil Assy.-Left
GAL-76	1					C.B. Lead Assy.
X-755	1					Terminal
X-947	1					Terminal-Spade Type L.H.
X-946	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	4					1/4 Lock Washer
X-842	1					Fuse - 5 Amp.
8X-877	2					1/4-20x5/16 Fill. Hd. Sc.

Comm. End Plate Assembly & Parts Used With

DA-39	3					Flat Oil Guard
DA-70	1					Armature Shaft Nut
GAG-116	1					Dowel Pin Screw - #10-32
(GAR-3235)	1					Comm. End Plate Assy.
GAL-121	2					Brush - Main
GAL-199	2					Brush Screw Block
GAL-204	1					Ground Connector Assy.
X-958	2					Terminal
GAL-205	2					3rd Brush Plate Retaining Spring
GAL-242	2					Brush Holder
GAL-243	2					Brush Spring
GAR-1235	1					C.E. Plate Part Assy.
GAR-2210	1					3rd Brush Holder Plate Assy.
GAL-131	1					Brush - Third
GAL-199	1					Brush Screw Block
GAL-242	1					Brush Holder
GAL-243	1					Brush Spring
GAR-1210	1					3rd Brush Holder Plate Part Assy.
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	4					#8 Lock Washer
6X-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
		1	2	3	4	5

Comm. End Plate Assembly (Continued)

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GR-73	1					Felt Washer
X-295	1					Ball Bearing - S.A.E. #203
X-489	1					1/4 Oiler - Press in Type

Armature Assembly & Parts Used With

GAG-1150	1					Oil Guard
GAR-2335	1					Armature Assy.
GAR-171	1					Snap Ring
GK-174	1					1/2 Plain Washer
X-263	1					#8 Woodruff Key
X-1150	1					1/2-20 Castellated Nut

Drive End Head Assembly & Parts Used With

GAR-1216A	1					Drive End Head Assy.
GAR-95	1					Felt Washer
GAR-216A	1					Drive End Head
GX-9	1					Bearing Retainer
GX-10	1					Gasket
X-196	3					#10 Lock Washer
8X-311	3					#10-32x3/8 Rd. Hd. Sc.
X-378	1					Ball. Brg.-Oil Seal - S.A.E. #204

Dist. Mounting Housing & Parts Used With

GAG-58	1					Dist. Mounting Housing Clamp
GAG-115	1					Dist. Mounting Housing
GE-25	1					Dist. Gear-Driver
GG-133	1					Dist. Drive Rivet
GW-19	1					Bearing Cover
8X-53	1					#8-32x5/8 Rd. Hd. Screw
8X-119	2					#10-32x1/2 Fill. Hd. Screw
8X-141	1					#8-32 Hex. Nut
X-380	1					1/8 Grease Cup
X-489	1					1/4 Oiler - Press in Type
X-544	2					#10 Lock Washer

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
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)

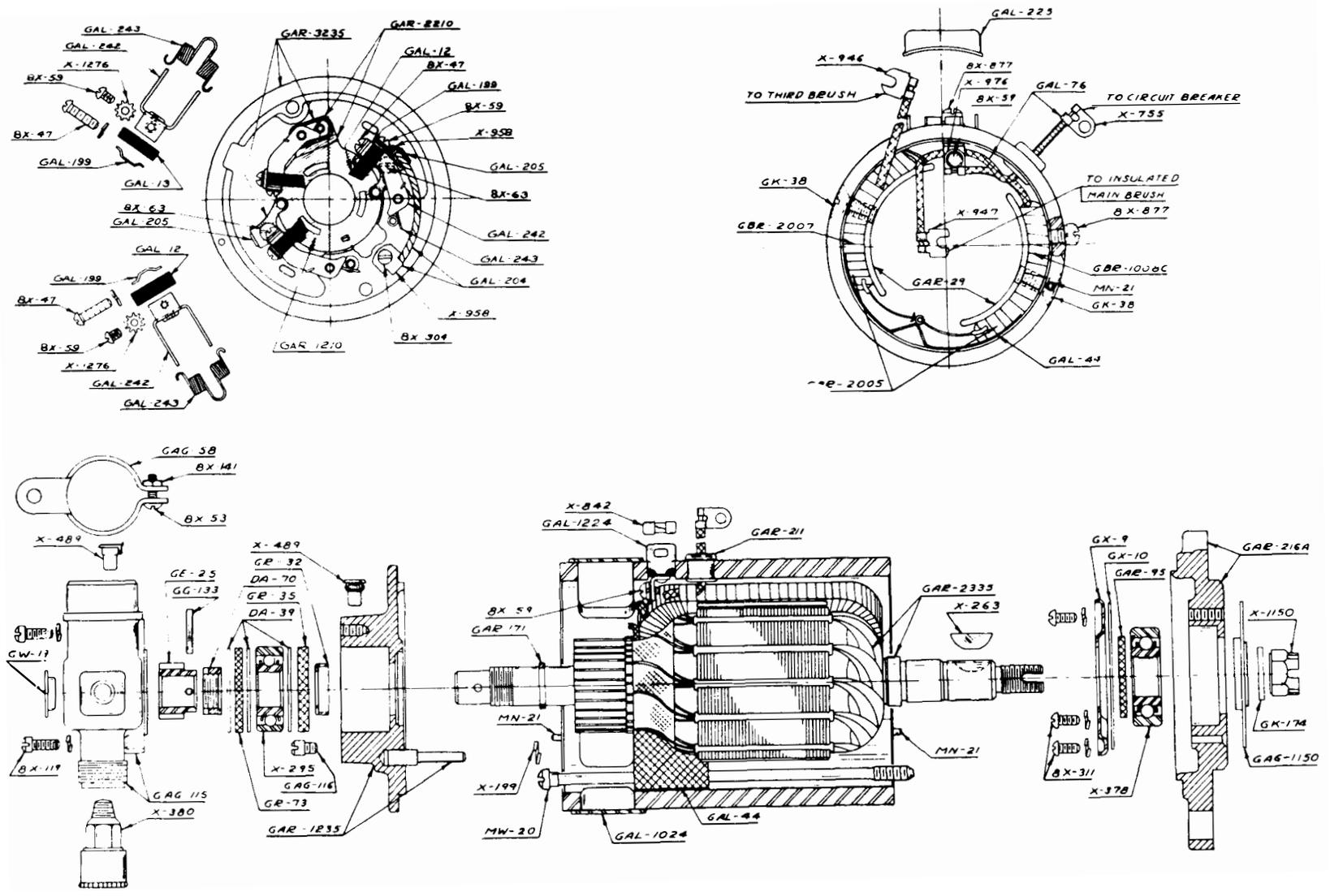
‡ Service Brush Set GAL-2012.

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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."

GBR-4502 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBR-4601 GENERATOR PARTS LIST

GBR-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
(GER-2188)	1	Frame & Field Assembly					GAR-2116	1	Armature Assembly				
JAL-44	1	Field Connection Ins.					GAR-171	1	Snap Ring				
GAR-29	2	Pole Piece					GBM-21	1	Armature Shaft Nut				
GAR-211	1	Insulating Bushing					GR-32	1	Felt Washer Retainer				
GBR-1005	1	Field Coil Assy.-Comp.					SP-185	1	Drive Pulley				
GER-1007	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 & Parts Used With</u>						
X-1425	1	Terminal					GBJ-1003D	1	Drive End Head Assy.				
X-976	1	Terminal					GAR-63	2	Felt Guard				
GBR-1008	1	Field Coil Assy.-Right					GAR-64	2	Bearing Retainer				
X-767	1	Terminal					GBJ-3D	1	D.E. Head				
GK-38B	2	Pole Piece Screw					GG-164	2	Felt Washer				
MN-21	2	Dowel Pin					8X-173	3	#10-32 Hex. Nut				
MW-20A	2	Frame Screw					X-196	3	#10 Lock Washer				
X-199	2	1/4 Lock Washer					X-295	1	Ball Brg. - S.A.E. #203				
<u>Comm. End Plate Assembly & Parts Used With</u>						X-489	1	1/4 Oiler - Press in Type					
(GAR-2115E)	1	Comm. End Plate Assy.					8X-1003	3	#10-32x7/8 Rd. Hd. Screw				
GAL-51	2	3rd Brush Plate Retain'g Spring					<u>Miscellaneous Parts</u>						
GAR-73	1	Oil Wick					GBM-24	1	Head Band				
GAR-75	1	Oil Guard					TC-4302B	1	Two Charge Regulator & Circuit Breaker				
GAR-78	1	Gasket					8X-321	4	#10-32x5/16 Rd. Hd. Screw				
GAR-79A	1	C.E. Cap Cover					8X-715	1	#10-32x1 1/4 Rd. Hd. Sc.				
GAR-98A	1	Wick Cover					8X-794	1	#10-32 Square Nut				
GAR-1012†	2	Brush - Main					X-1270	4	#10 Skpf. Washer				
GAR-1072	1	3rd Br. Holder Plate Assy.							1	2	3	4	5
GAR-1115A	1	C.E. Plate Part Assy.					(Issued 9-1-37)						
GBF-79	1	Absorbent Bronze Brg.											
GBJ-1013†	1	Brush - Third											
8X-56	2	#8-32x7/16 Rd. Hd. Screw											
X-195	1	#8 Lock Washer											
12X-196	3	#10 Lock Washer											
8X-305	1	#8-32x1/4 Rd. Hd. Screw											
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							

† Service Brush Set GAR-2012S.

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File in
Equipment & Parts Lists Binder

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBR-4602 GENERATOR PARTS LIST

GBR-4602

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
(GBR-2314)	1	Frame & Field Assembly				
GAL-44	1	Field Connection Ins.				
GAR-21	2	Aligning Dowel				
GAR-29	2	Pole Piece				
GAR-211	1	Insulating Bushing				
GBR-1005B	1	Field Coil Assy. - Comp.				
GBR-1007B	1	Field Coil Assy.-Left				
GAL-296	1	C.B. Lead Assembly				
X-755	1	Terminal				
X-1425	1	Terminal				
X-976	1	Terminal				
GBR-1008B	1	Field Coil Assy.-Right				
X-767	1	Terminal				
GK-38	2	Pole Piece Screw				
MN-21	2	Dowel Pin				
MW-20	2	Frame Screw				
X-199	2	1/4 Lock Washer				

Comm. End Plate Assembly & Parts Used With

DA-39	2	Flat Oil Guard				
DA-70	1	Armature Shaft Nut				
DJ-10	1	End Cap Cover Gasket				
GAG-53	1	Comm. End Cap Cover				
(GAL-2213A)	1	Comm. End Plate Assembly				
GAL-51	2	3rd Brush Plate Retaining Spring				
GAL-1161	1	3rd Brush Plate Assy.				
GAL-1213A	1	C.E. Plate Part Assy.				
GAR-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	2	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				
X-544	3	#10 Lock Washer				
8X-870	3	#10-32x5/16 Fill. Hd. Sc.				
		1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GAR-159	1	Armature Shaft Spacer				
GAR-2214	1	Armature Assembly				
GAR-171	2	Snap Ring				
X-264B	1	#9 Special Woodruff Key				

Drive End Head Assembly & Parts Used With

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

Miscellaneous Parts

GAL-313	2	Spacer				
GAL-1024	1	Head Band Assy.				
TC-4313A	1	Two Charge Regulator & Circuit Breaker				
X-196	4	#10 Lock Washer				
8X-309	4	#10-32x1/2 Rd. Hd. Screw				
X-715	1	#10-32x1 1/4 Rd. Hd. Sc.				
8X-794	1	#10-32 Square Nut				
		1	2	3	4	5

(Issued 11-1-37)

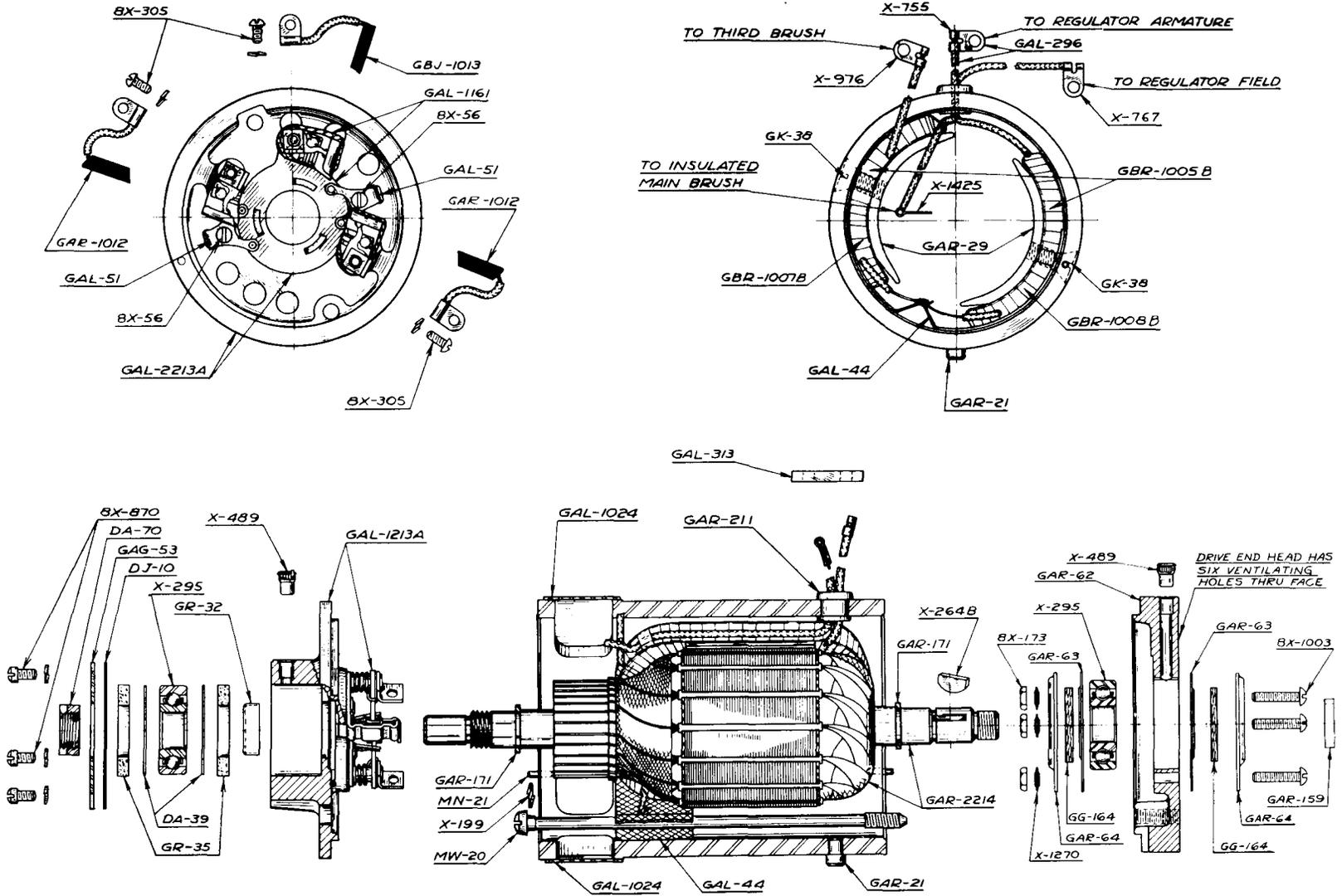
† Service Brush Set GAR-2012S.

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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."

GBR-4602 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBR-4603 GENERATOR PARTS LIST

GBR-4603

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
(GBR-2285)	1	Frame & Field Assy.					GAR-2116	1	Armature Assembly				
GAL-44	1	Field Connection Ins.					GAR-171	1	Snap Ring				
GAR-29	2	Pole Piece					GBM-21	1	Armature Shaft Nut				
GAR-211	1	Insulating Bushing					GR-32	1	Felt Washer Retainer				
GBR-1005	1	Field Coil Assy. - Comp.					SP-191	1	Drive Pulley				
GBR-1007	1	Field Coil Assy. - Left					X-260	1	#5 Woodruff Key				
								X-864 1 .669 Lock Washer					
GAL-289	1	C.B. Lead Assy.					<u>Drive End Head Assembly & Parts Used With</u>						
X-755	1	Terminal					GAR-1076	1	Drive End Head Assy.				
X-1425	1	Terminal					GAR-63	2	Felt Guard				
X-976	1	Terminal					GAR-64	2	Bearing Retainer				
GBR-1008	1	Field Coil Assy. - Right					GAR-76	1	Drive End 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				
MW-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				
						8X-1003	3	#10-32x7/8 Rd. Hd. Screw					
<u>Comm. End Plate Assembly & Parts Used With</u>													
(GAR-2071)	1	Comm. End Plate Assy.					<u>Miscellaneous Parts</u>						
GAL-51	2	3rd Brush Plate Retaining Spring					GAL-1024	1	Head Band Assy.				
GAR-73	1	Felt Wick					TC-122	1	Resistance Jumper				
GAR-75	1	Oil Guard					TC-4306A	1	Two Charge Regulator & Circuit Breaker				
GAR-78	1	Gasket					X-196	4	#10 Lock Washer				
GAR-79	1	C.E. Cap Cover					8X-321	4	#10-32x5/16 Rd. Hd. Screw				
GAR-98	1	Wick Cover					X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
GAR-1012†	2	Brush - Main					8X-794	1	#10-32 Square Nut				
GAR-1071A	1	C.E. Plate Part Assy.							1	2	3	4	5
GBF-79	1	Absorbent Bronze Bearing					(Issued 11-1-37)						
GAR-1072	1	3rd Brush Holder Plate Assy.											
GBJ-1013†	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							

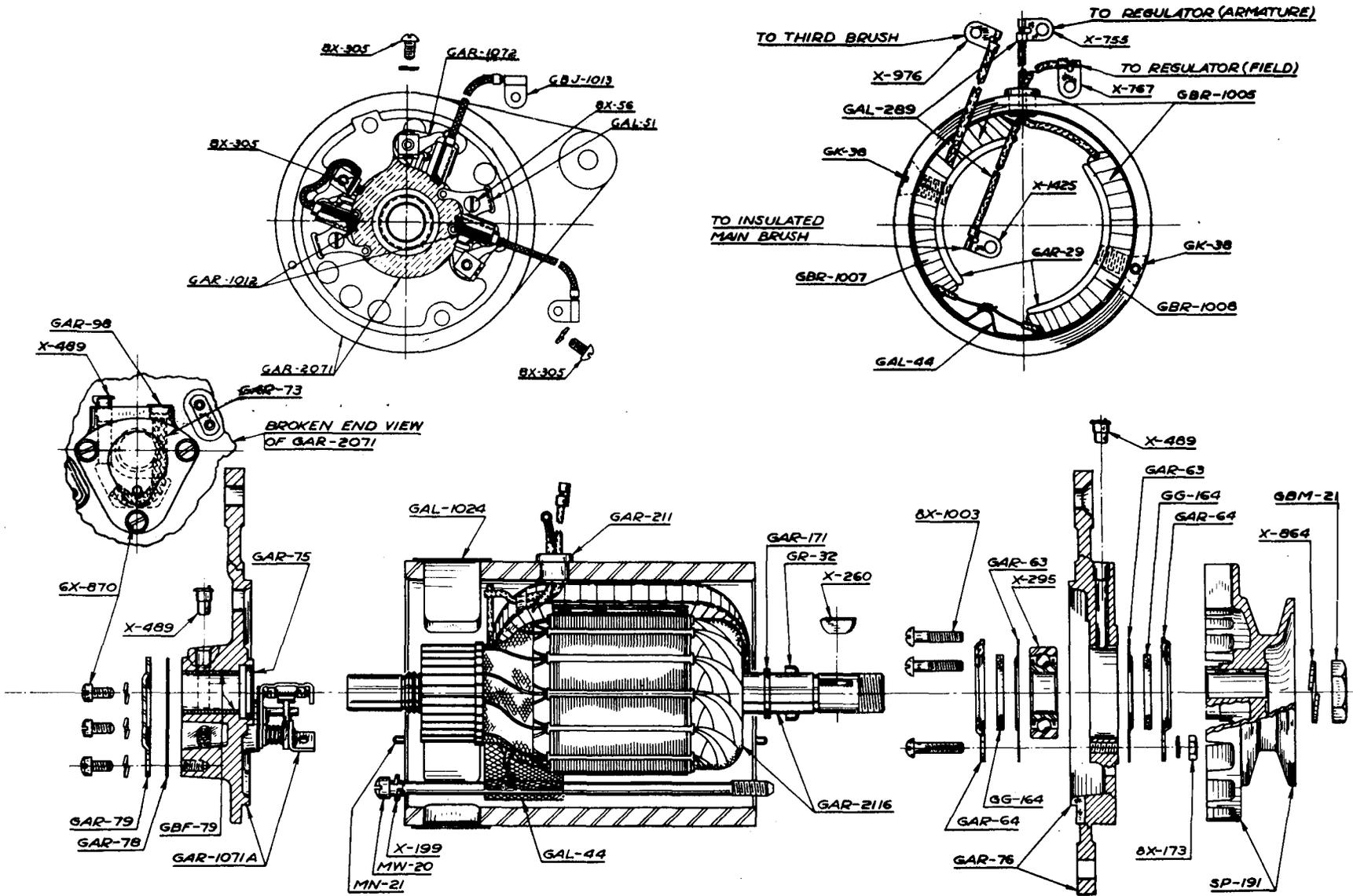
† Service Brush Set GAR-2012S.

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GBR-4603 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBR-4604 GENERATOR PARTS LIST

GBR-4604

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
(GBR-2157)	1	Frame & Field Assy.				
GAL-44	1	Field Connection Ins.				
GAL-148	1	Aligning Dowel				
GAR-29	2	Pole Piece				
GAR-211	1	Insulating Bushing				
GBR-1005B	1	Field Coil Assy. - Comp.				
GBR-1007B	1	Field Coil Assy. - Left				
GAL-296	1	C.B. Lead Assy.				
X-755	1	Terminal				
X-1425	1	Terminal				
X-976	1	Terminal				
GBR-1008B	1	Field Coil Assy. - Right				
X-767	1	Terminal				
GK-38	2	Pole Piece Screw				
MN-21	2	Dowel Pin				
MW-20	2	Frame Screw				
X-199	2	1/4 Lock Washer				

Comm. End Plate Assembly & Parts Used With

DA-39	2	Flat Oil Guard				
DA-70	1	Armature Shaft Nut				
DJ-10	1	End Cap Cover Gasket				
GAG-53	1	Comm. End Cap Cover				
(GAL-2213A)	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.				
GAR-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				
GR-35	2	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				
X-544	3	#10 Lock Washer				
8X-870	3	#10-32x5/16 Fill. Hd. Sc.				
		1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GAR-2319	1	Armature Assembly				
GAR-171	2	Snap Ring				
GBM-21	1	Armature Shaft Nut				
GR-32	1	Felt Washer Retainer				
SP-199	1	Drive Pulley				
X-260	1	#5 Woodruff Key				
X-864	1	.669 Lock Washer				

Drive End Head Assembly & Parts Used With

GAR-1062B	1	Drive End Head Assy.				
GAR-62A	1	Drive End Head				
GAR-63	2	Felt Guard				
GAR-64	2	Bearing Retainer				
GG-164	2	Felt Washer				
8X-173	3	#10-32 Hex. Nut				
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				
X-1270	3	#10 Skpf. Washer				

Miscellaneous Parts

GAL-1024	1	Head Band Assy.				
TC-4302A	1	Two Charge Regulator & Circuit Breaker				
X-196	4	#10 Lock Washer				
8X-321	4	#10-32x5/16 Rd. Hd. Screw				
X-715	1	#10-32x1 1/4 Rd. Hd. Sc.				
8X-794	1	#10-32 Square Nut				
		1	2	3	4	5

(Issued 11-1-37)

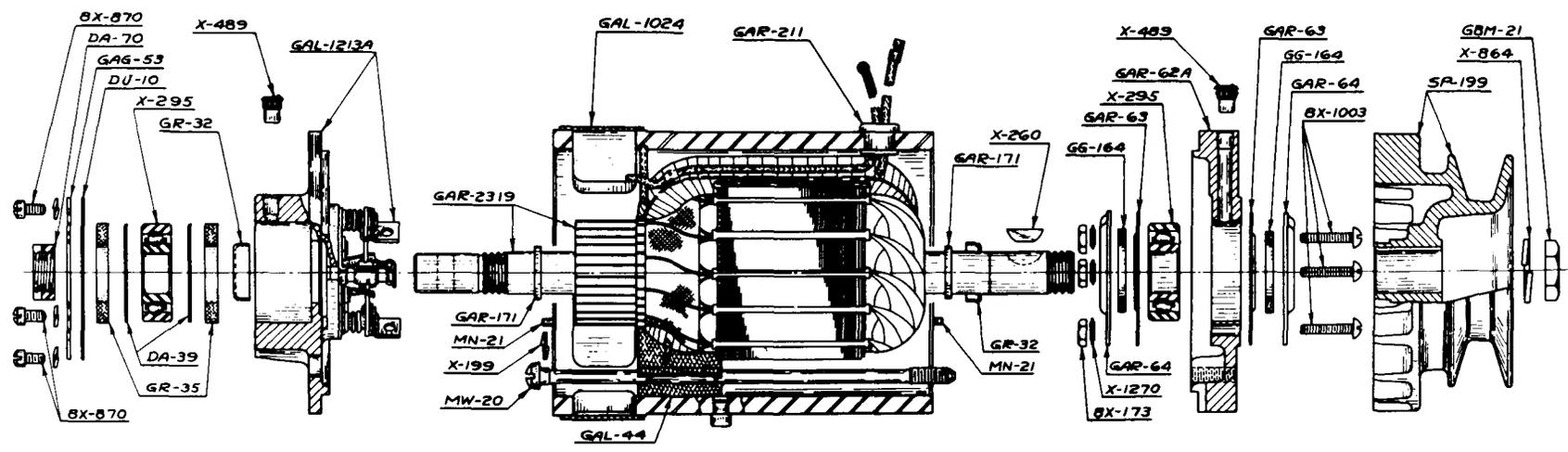
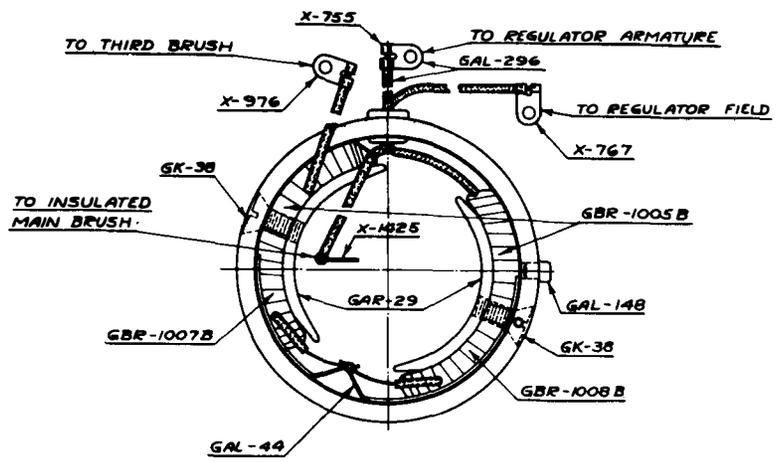
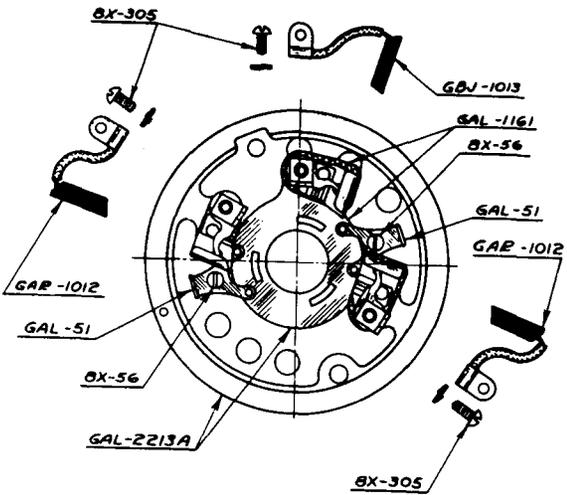
† Service Brush Set GAR-2012S.

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GBR-4604 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBR-4605 GENERATOR PARTS LIST

GBR-4605

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			
(GBR-2142)	1	Frame & Field Assembly					GAR-2116	1	Armature Assembly							
GAL-44	1	Field Connection Ins.					GAR-171	1	Snap Ring							
GAR-29	2	Pole Piece					GBM-21	1	Armature Shaft Nut							
GAR-211	1	Insulating Bushing					GR-32	1	Felt Washer Retainer							
GBR-1005	1	Field Coil Assembly - Comp.					SP-205	1	Drive Pulley							
GBR-1007	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 & Parts Used With</u>									
X-1425	1	Terminal					GBJ-1003	1	Drive End Head Assy.							
X-976	1	Terminal					GAR-63	2	Felt Guard							
GBR-1008	1	Field Coil Assy. - Right					GAR-64	2	Bearing Retainer							
X-767	1	Terminal					GBJ-3	1	D.E. Head							
GK-38	2	Pole Piece Screw					GG-164	2	Felt Washer							
MN-21	2	Dowel Pin					8X-173	3	#10-32 Hex. Nut							
MW-20	2	Frame Screw					X-196	3	#10 Lock Washer							
X-199	2	1/4 Lock Washer					X-295	1	Ball Brg. - S.A.E. #203							
<u>Comm. End Plate Assembly & Parts Used With</u>										X-489	1	1/4 Oiler - Press in Type				
(GBR-2195)	1	Comm. End Plate Assy.					8X-1003	3	#10-32x7/8 Rd. Hd. Screw							
GAL-51	2	3rd Brush Plate Retaining Spring					<u>Miscellaneous Parts</u>									
GAR-73	1	Felt Wick					GAL-1024	1	Head Band Assembly							
GAR-75	1	Oil Guard					GAR-190	1	Mounting Bracket							
GAR-78	1	Gasket					TC-4302A	1	Two Charge Regulator & Circuit Breaker							
GAR-79	1	C.E. Cap Cover					X-196	4	#10 Lock Washer							
GAR-98	1	Wick Cover					8X-321	4	#10-32x5/16 Rd. Head Screw							
GAR-1012†	1	Brush - Main					X-402	2	1/16x3/4 Cotter Pin							
GAR-1072	1	3rd Brush Holder Plate Assy.					X-715	1	#10-32x1 1/4 Rd. Hd. Screw							
GAR-1195A	1	Comm. End Plate Part Assy.					8X-794	1	#10-32 Square Nut							
GBF-79	1	Absorbent Bronze Bearing.					8X-863A	2	5/16-24 Hex. Hd. Screw							
GBJ-1013†	1	Brush - Third					X-1014	2	5/16 Lock Washer							
8X-56	2	#8-32x7/16 Rd. Hd. Sc.					8X-1061	2	5/16-24 Castellated Nut							
X-195	1	#8 Lock Washer					1	2	3	4	5					
X-196	3	#10 Lock Washer					(Issued 11-1-37)									
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										

† Service Brush Set GAR-2012S.

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBR-4607 GENERATOR PARTS LIST

GBR-4607

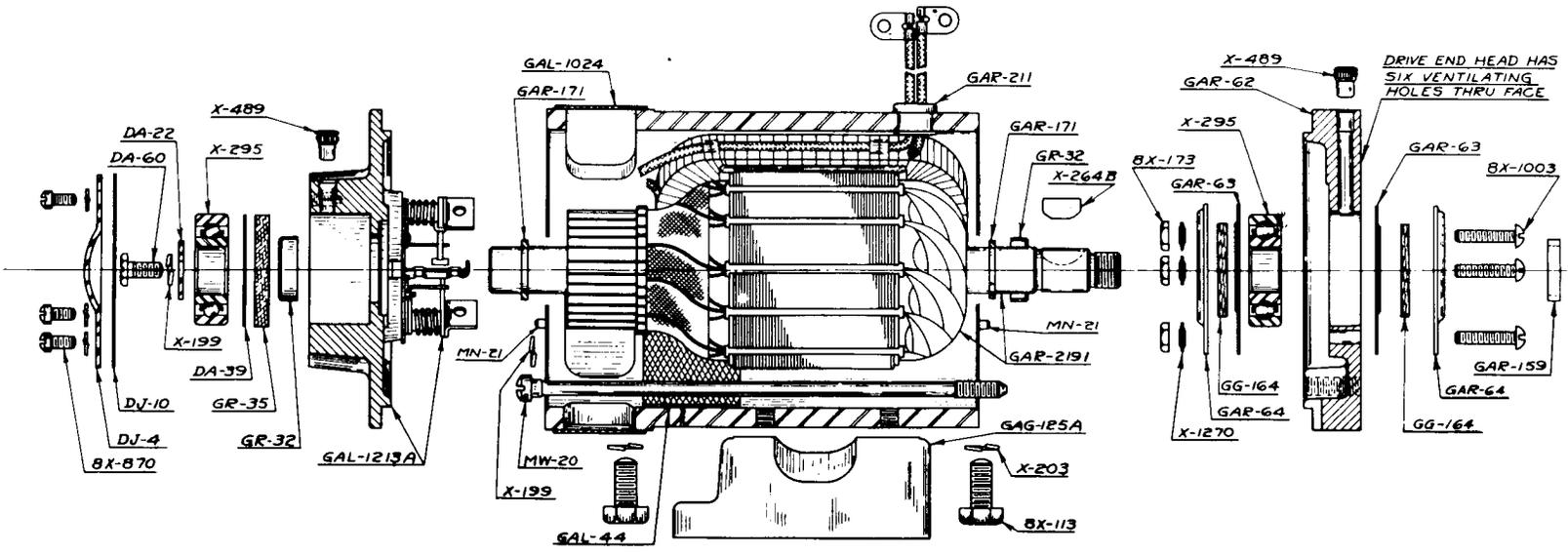
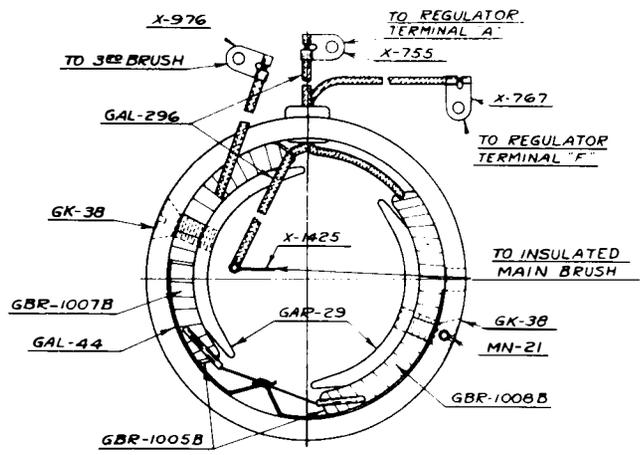
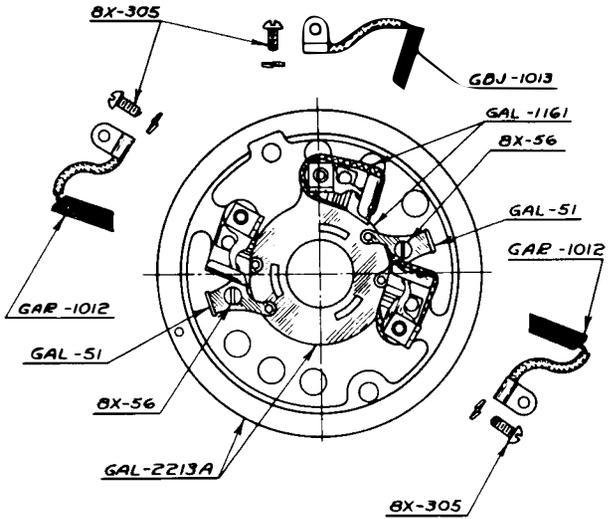
Frame & Field Assembly & Parts Used With					Armature Assembly & Parts Used With				
Part No.	No. Used	Name of Part			Part No.	No. Used	Name of Part		
		1	2	3 4 5			1	2 3 4 5	
GAG-125A	1	Mounting Bracket			GAR-159	1	Armature Shaft Spacer		
(GBR-2324)	1	Frame & Field Assembly			GAR-2191	1	Armature Assy.		
GAL-44	1	Field Connection Ins.			GAR-171	2	Snap Ring		
GAR-29	2	Pole Piece			GR-32	1	Felt Washer Retainer		
GAR-211	1	Insulating Bushing			X-264B	1	#9 Special Woodruff Key		
GBR-1005B	1	Field Coil Assy. - Comp.			<u>Drive End Head Assembly & Parts Used With</u>				
GBR-1007B	1	Field Coil Assy. - Left			GAR-1062	1	Drive End Head Assy.		
GAL-296	1	C.B. Lead Assy.			GAR-62	1	Drive End Head		
X-755	1	Terminal			GAR-63	2	Felt Guard		
X-1425	1	Terminal			GAR-64	2	Bearing Retainer		
X-976	1	Terminal			GG-164	2	Felt Washer		
GBR-1008B	1	Field Coil Assy. - Right			8X-173	3	#10-32 Hex. Nut		
X-767	1	Terminal			X-295	1	Ball Brg. - S.A.E. #203		
GK-38	2	Pole Piece Screw			X-489	1	1/4 Oiler - Press in Type		
MN-21	2	Dowel Pin			8X-1003	3	#10-32x7/8 Rd. Hd. Screw		
MW-20	2	Frame Screw			X-1270	3	#10 Skpf. Washer		
8X-113	2	5/16-24x5/8 Hex. Hd. Screw			<u>Miscellaneous Parts</u>				
X-199	2	1/4 Lock Washer			GAL-1024	1	Head Band Assembly		
X-203	2	5/16 Lock Washer			TC-4302A	1	Two Charge Regulator & Circuit Breaker		
<u>Comm. End Plate Assembly & Parts Used With</u>					X-196	4	#10 Lock Washer		
DA-22	1	Bearing Retaining Washer			8X-321	4	#10-32x5/16 Rd. Hd. Screw		
DA-39	1	Flat Oil Guard			X-715	1	#10-32x1 1/4 Rd. Hd. Screw		
DA-60	1	Bearing Retaining Screw			8X-794	1	#10-32 Square Nut		
DJ-4	1	Comm. End Cap Cover					1	2 3 4 5	
DJ-10	1	End Cap Cover Gasket			(Issued 11-16-37)				
(GAL-2213A)	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.							
GAR-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							
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- 2x5/16 Fill. Hd. Sc.							
		1	2	3 4 5					

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GBR-4607 GENERATOR ILLUSTRATION

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBR-4608 GENERATOR PARTS LIST

GBR-4608

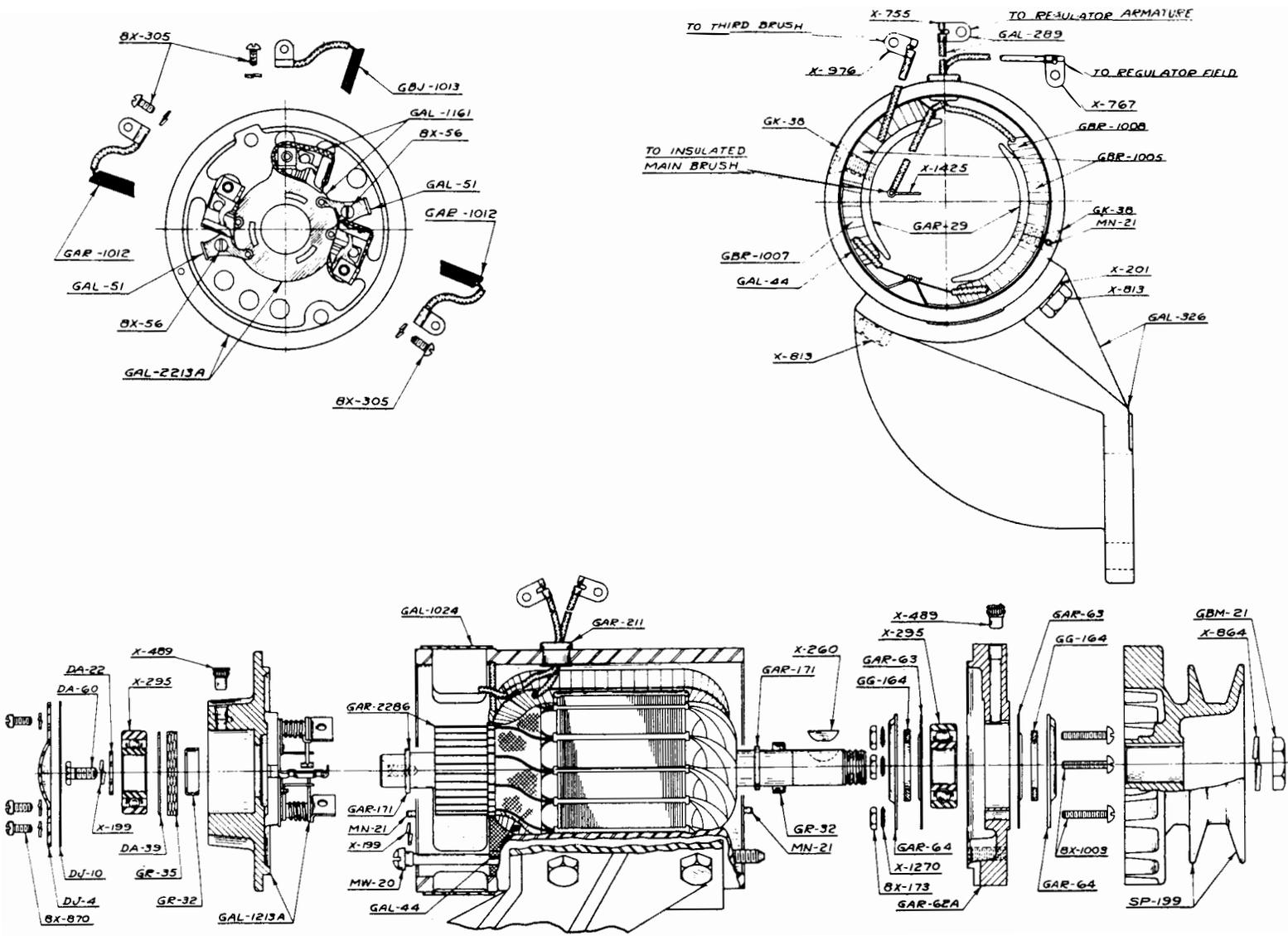
Frame & Field Assembly & Parts Used With					Armature Assembly & Parts Used With										
Part No.	No. Used	Name of Part	1	2	3	4	5	Part No.	No. Used	Name of Part	1	2	3	4	5
GAL-326	1	Mounting Bracket						GAR-2286	1	Armature Assy.					
(GBR-2325)	1	Frame & Field Assy.						GAR-171	2	Snap Ring					
GAL-44	1	Field Connection Ins.						GBM-21	1	Armature Shaft Nut					
GAR-29	2	Pole Piece						GR-32	1	Felt Washer Retainer					
GAR-211	1	Insulating Bushing						SP-199	1	Drive Pulley					
GBR-1005	1	Field Coil Assy. - Comp.						X-260	1	#5 Woodruff Key					
GBR-1007	1	Field Coil Assy. - Left						X-864	1	.669 Lock Washer					
GAL-289	1	C.B. Lead Assy.						Drive End Head Assembly & Parts Used With							
X-755	1	Terminal						GAR-1062B	1	Drive End Head Assembly					
X-1425	1	Terminal						GAR-62A	1	Drive End Head					
X-976	1	Terminal						GAR-63	2	Felt Guard					
GBR-1008	1	Field Coil Assy. - Right						GAR-64	2	Bearing Retainer					
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-295	1	Ball Brg. - S.A.E. #203					
MW-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					
X-201	4	3/8 Lock Washer						X-1270	3	#10 Skpf. Washer					
X-813	4	3/8-24x11/16 Hex. Hd. Sc.						Miscellaneous Parts							
Comm. End Plate Assembly & Parts Used With								GAL-1024	1	Head Band Assembly					
DA-22	1	Bearing Retaining Washer						TC-4302A	1	Two Charge Regulator & Circuit Breaker					
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-2213A)	1	Comm. End Plate Assy.									1	2	3	4	5
GAL-51	2	3rd Brush Plate Retaining Spring						(Issued 11-16-37)							
GAL-1161	1	3rd Brush Plate Assy.													
GAL-1213A	1	C.E. Plate Part Assy.													
CAR-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													
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	#6-32x1/4 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. Sc.													
			1	2	3	4	5								

† Service Brush Set GAR-2012S.

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GBR-4608 GENERATOR ILLUSTRATION

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBR-4609 GENERATOR PARTS LIST

GBR-4609

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	
(GBR-2132)	1	Frame & Field Assy.			GAR-1177	1	Oil Thrower Assembly		
GAL-44	1	Field Connection Ins.			GAR-2109	1	Armature Assembly		
CAR-29	2	Pole Piece			GAR-171	1	Snap Ring		
GAR-211	1	Insulating Bushing			GBM-21	1	Armature Shaft Nut		
GBR-1C05C	1	Field Coil Assy. - Comp.			GK-174	1	1/2 Plain Washer		
CBR-1007C	1	Field Coil Assy. - Left			SP-96	1	Ventilating Fan		
					X-156	1	1/2-20 Castellated Nut		
GAL-298	1	C.E. Lead Assy.			X-204	1	1 1/16 Lock Washer		
X-755	1	Terminal			X-253	1	#3 Woodruff Key		
X-1425	1	Terminal			X-263	1	#8 Woodruff Key		
X-976	1	Terminal			X-404	1	3/32x1 Cotter Pin		
GBR-1008	1	Field Coil Assy. - Right			<u>Drive End Head Assembly & Parts Used With</u>				
X-767	1	Terminal			GAR-1095	1	Drive End Head Assy.		
GK-38	2	Pole Piece Screw			GAR-95	1	Felt Washer		
MN-21	2	Dowel Pin			GAR-96	1	Drive End Head		
MW-20	2	Frame Screw			GX-9	1	D.E. Packing Retainer		
X-199	2	1/4 Lock Washer			GX-10	1	Gasket		
<u>Comm. End Plate Assembly & Parts Used With</u>					X-196	3	#10 Lock Washer		
DA-39	2	Flat Oil Guard			8X-311	3	#10-32x3/8 Rd. Hd. Sc.		
DA-132	1	Felt Washer			X-378	1	Ball Brg. - S.A.E. #204 - Oil Seal		
GAE-188	1	Felt Washer			<u>Miscellaneous Parts</u>				
GAR-82	1	Air Deflector			GAL-1024	1	Head Band Assy.		
GAR-93	1	Comm. End Cap Cover			TC-4302A	1	Two Charge Regulator		
(GAR-2081)	1	Comm. End Plate Assy.			X-196	4	#10 Lock Washer		
GAL-51	2	3rd Brush Plate Retain'g Spring			8X-321	4	#10-32x5/16 Rd. Hd. Screw		
GAL-1161	1	3rd Brush Plate Assy.			X-715	1	#10-32x1 1/4 Rd. Hd. Screw		
GAR-1081	1	C.E. Plate Part Assy.			8X-794	1	#10-32 Square Nut		
GBM-1012†	2	Brush - Main					1	2 3 4 5	
GBM-1C13†	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							
GBJ-25	1	End Cap Cover Gasket							
GR-32	1	Felt Washer Retainer							
X-62	6	#10-32x3/8 Flat Hd. Screw							
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							
		1	2	3 4 5					

(Issued 11-16-36)

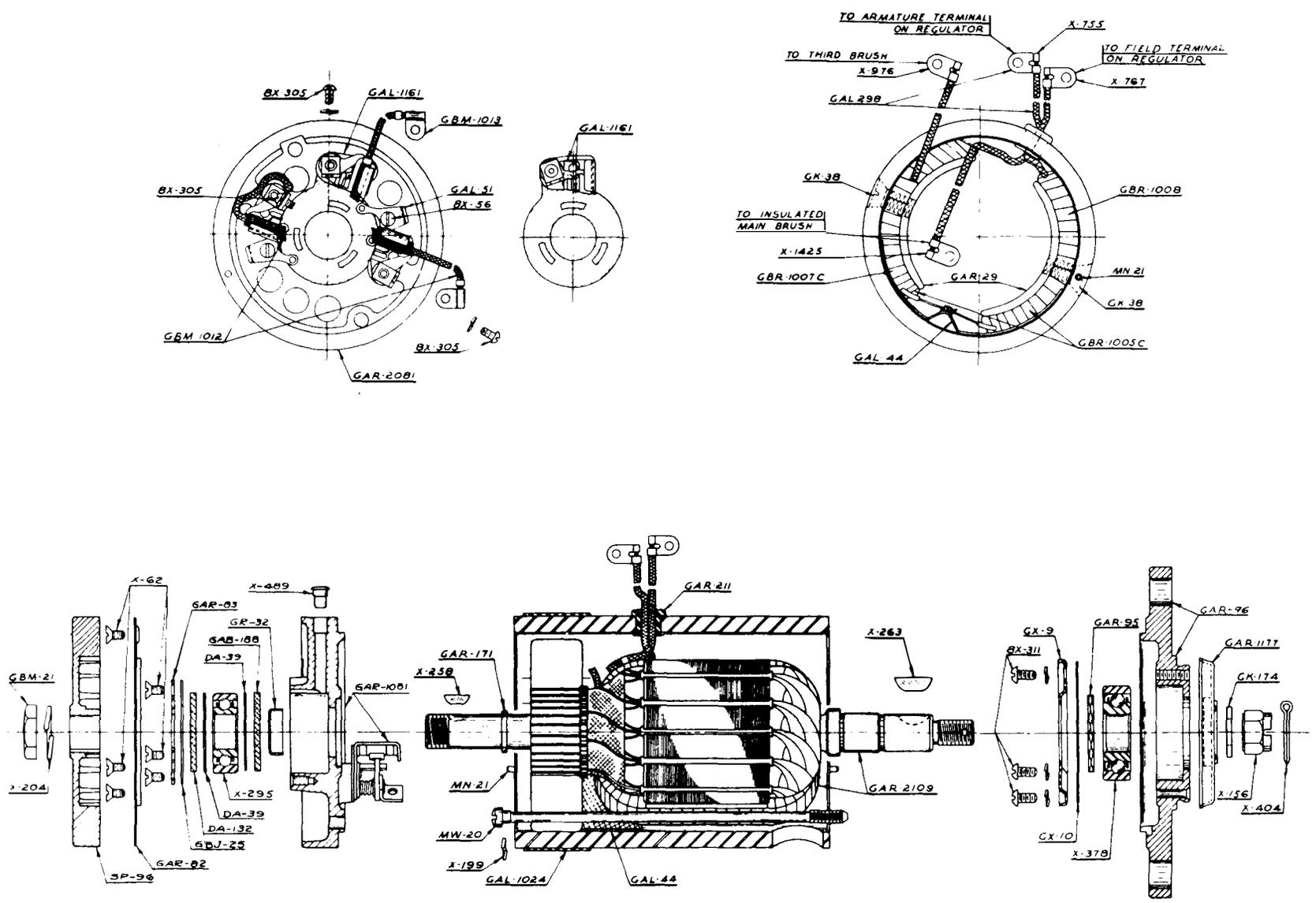
† Service Brush Set GBM-2012.

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GBR-4609 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBR-4611 GENERATOR PARTS LIST

GBR-4611

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			
(GBR-2136)	1	Frame & Field Assy.					GAR-2331	1	Armature Assembly							
GAG-125	1	Mounting Bracket					GAR-171	2	Snap Ring							
GAL-44	1	Field Connection Ins.					GJ-179	1	7/16 Plain Washer							
GAR-29	2	Pole Piece					GR-32	1	Felt Washer Retainer							
GAR-211	1	Insulating Bushing					SP-96	1	Ventilating Fan							
GBR-1005	1	Field Coil Assy. - Comp.					X-160	1	7/16-20 Hex. Nut							
GBR-1007	1	Field Coil Assy. - Left					X-205	1	7/16 Lock Washer							
GAL-289	1	C.B. Lead Assy.					X-258	1	#3 Woodruff Key							
X-755	1	Terminal					X-261	2	#6 Woodruff Key							
X-1425	1	Terminal					<u>Drive End Head Assembly & Parts Used With</u>									
X-976	1	Terminal					GAR-1062B	1	Drive End Head Assy.							
GBR-1008	1	Field Coil Assy. - Right					GAR-62A	1	Drive End Head							
X-767	1	Terminal					GAR-63	2	Felt Guard							
GK-38	2	Pole Piece Screw					GAR-64	2	Bearing Retainer							
MN-21	2	Dowel Pin					GG-164	2	Felt Washer							
8X-113	2	5/16-24x5/8 Hex. Hd. Sc.					8X-173	3	#10-32 Hex. Nut							
X-203	2	5/16 Lock Washer					X-295	1	Ball Brg. - S.A.E. #203							
MW-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							
<u>Comm. End Plate Assembly & Parts Used With</u>										X-1270	3	#10 Skpf. Washer				
DA-39	2	Flat Oil Guard					<u>Miscellaneous Parts</u>									
DA-70	1	Armature Shaft Nut					GAL-1024	1	Head Band Assy.							
DJ-10	1	End Cap Cover Gasket					TC-4302A	1	Two Charge Regulator							
GAG-53	1	Comm. End Cap Cover					X-196	4	#10 Lock Washer							
(GAL-2213A)	1	Comm. End Plate Assy.					8X-321	4	#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-1161	1	3rd Brush Plate Assy.					8X-794	1	#10-32 Square Nut							
GAL-1213A	1	C.E. Plate Part Assy.							1	2	3	4	5			
GBM-1012†	2	Brush - Main					(Issued 11-16-36)									
GBM-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. Screw														
GR-32	1	Felt Washer Retainer														
GR-35	2	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	3	#10 Lock Washer														
8X-870	3	#10-32x5/16 Fill. Hd. Screw														
		1	2	3	4	5										

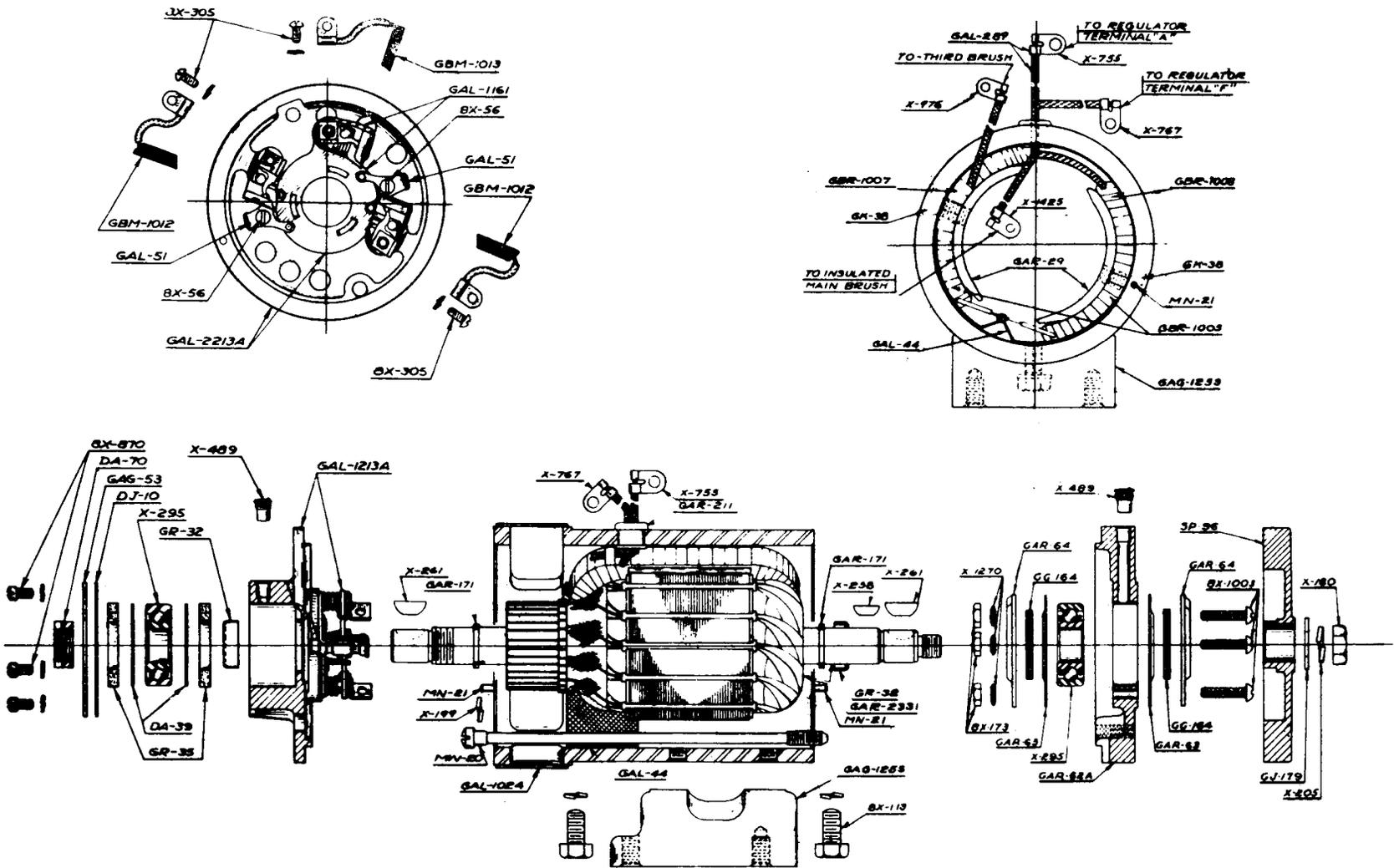
† Service Brush Set GBM-2012.

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GBR-4611 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBR-4612 GENERATOR PARTS LIST

GBR-4612

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
(GBR-2136)	1	Frame & Field Assy.						GAR-2151	1	Armature Assembly					
GAG-125	1	Mounting Bracket						GAR-171	2	Snap Ring					
GAL-44	1	Field Connection Ins.						GJ-179	1	7/16 Plain Washer					
GAR-29	2	Pole Piece						GR-32	1	Felt Washer Retainer					
GAR-211	1	Insulating Bushing						SP-96	1	Ventilating Fan					
GBR-1005	1	Field Coil Assy. - Comp.						X-160	1	7/16-20 Hex. Nut					
GBR-1007	1	Field Coil Assy. - Left						X-205	1	7/16 Lock Washer					
GAL-289	1	C.B. Lead Assy.						X-258	1	#3 Woodruff Key					
X-755	1	Terminal						X-261	1	#6 Woodruff Key					
X-1425	1	Terminal						<u>Drive End Head Assembly & Parts Used With</u>							
X-976	1	Terminal						GAR-1062B	1	Drive End Head Assy.					
GBR-1008	1	Field Coil Assy. - Right						GAR-62A	1	Drive End Head					
X-767	1	Terminal						GAR-63	2	Felt Guard					
GK-38	2	Pole Piece Screw						GAR-64	2	Bearing Retainer					
MN-21	2	Dowel Pin						GG-164	2	Felt Washer					
8X-113	2	5/16-24x5/8 Hex. Hd. Sc.						8X-173	3	#10-32 Hex. Nut					
X-203	2	5/16 Lock Washer						X-295	1	Ball Brg. - S.A.E. #203					
MW-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					
<u>Comm. End Plate Assembly & Parts Used With</u>						<u>Miscellaneous Parts</u>									
DA-22	1	Bearing Retaining Washer						GAL-1024	1	Head Band Assembly					
DA-39	1	Flat Oil Guard						TC-4302A	1	Two Charge Regulator					
DA-60	1	Bearing Retaining Screw						X-196	4	#10 Lock Washer					
DJ-4	1	Comm. End Cap Cover						8X-321	4	#10-32x5/16 Rd. Hd. Screw					
DJ-10	1	End Cap Cover Gasket						X-715	1	#10-32x1 1/4 Rd. Hd. Screw					
GAJ-79	1	Bearing Spacer						8X-794	1	#10-32 Square Nut					
(GAL-2213A)	1	Comm. End Plate Assy.									1	2	3	4	5
GAL-51	2	3rd Brush Plate Retain'g Spring						(Issued 11-16-36)							
GAL-1161	1	3rd Brush Plate Assy.													
GAL-1213A	1	C.E. Plate Part Assy.													
GBM-1012†	2	Brush - Main													
GBM-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								

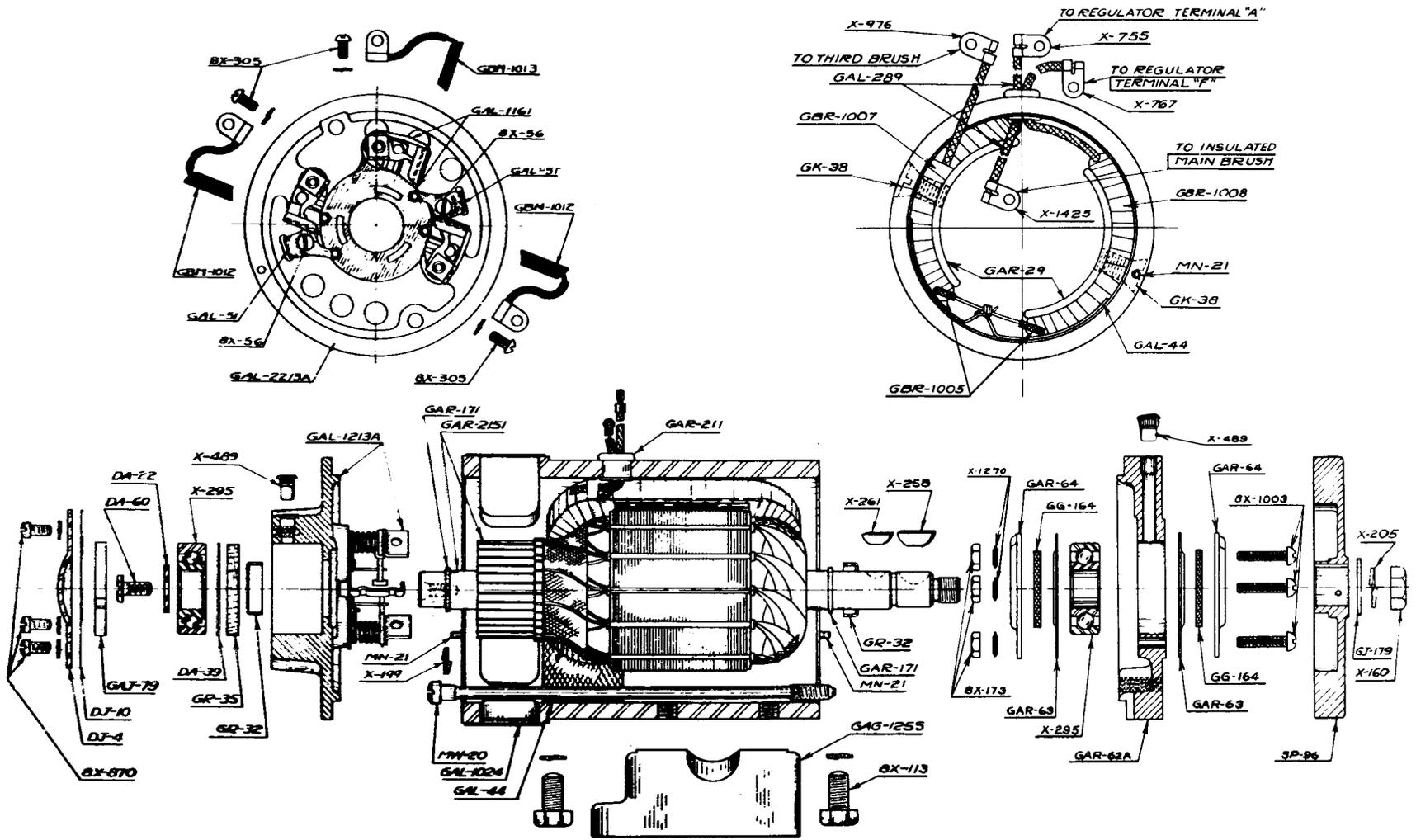
† Service Brush Set GBM-2012.

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GBR-4612 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBS-4502 GENERATOR PARTS LIST

GBS-4502

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GAL-20	2					Frame Screw
GAR-1031	1					Fuse Holder
(GBS-2179)	1					Frame & Field Assy.
GAL-44	1					Field Connection Ins.
GAL-148	1					Aligning Dowel
GAR-29	2					Pole Piece
GAR-211	1					Insulating Bushing
GBS-1005B	1					Field Coil Assy.-Comp.
GBS-1007D	1					Field Coil Assy.-Left
GAL-292	1					C.B. Lead Assy.
X-755	1					Terminal
X-947	1					Terminal
X-946	1					Terminal
GBS-1008C	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
8X-78	1					#8-32x9/16 Flat Hd. Screw
X-152	2					1/4-20 Hex. Nut
X-195	1					#8 Lock Washer
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
GAJ-79	1					Bearing Spacer
(GAR-2206C)	1					Comm. End Plate Assy.
GAL-121	2					Brush - Main
GAL-199	2					Brush Screw Block
GAL-204	1					Ground Connector Assy.
X-958	2					Terminal
GAL-205	2					3rd Br. Plate Retain'g Spring
GAL-242	2					Brush Holder
GAL-243	2					Brush Spring
GAL-1206C	1					C.E. Plate Part Assy.
GAR-2187A	1					3rd Brush Plate Assy.
GAL-131	1					Brush - 3rd
GAL-199	1					Brush Screw Block
GAL-242	1					Brush Holder
GAL-243	1					Brush Spring
GAR-1187A	1					3rd Br. Holder Plate Part Assy.
6X-47	1					#8-32x9/16 Rd. Hd. Sc.
6X-59	1					#8-32x3/16 Rd. Hd. Sc.
X-195	1					#8 Lock Washer
X-1276	1					#8 Skpf. Washer
6X-47	2					#8-32x9/16 Rd. Hd. Screw
6X-59	2					#8-32x3/16 Rd. Hd. Screw
6X-63	2					#8-32x3/8 Flat
X-195	4					#8 Lock Washer
6X-304	1					#8-32x5/16 Rd. Hd. Screw
X-1276	1					#8 Skpf. Washer
GR-32	1					Felt Washer Retainer
GR-35	1					Felt Washer
X-295	1					Ball Brg.-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
GAA-69	1					Lock Spring Ring
GAL-142	1					Armature Shaft Spacer
GBS-2333	1					Armature Assy.
GAR-171	2					Snap Ring
X-160	1					7/16-20 Hex. Nut
X-205	1					7/16 Lock Washer
X-261	1					#6 Woodruff Key
X-360	1					7/16 Steel Washer

Drive End Head Assy. & Parts Used With

GAM-1003	1					Drive End Head Assy.
GAM-30	1					Bearing Retainer
GAM-32	1					Felt Washer Guard
GAM-33	1					Felt Washer
GAM-34	1					Oil Guard - Corrugated
GAM-1003S	1					Drive End Head
X-196	4					#10 Lock Washer
X-295	1					Ball Brg.-S.A.E. #203
6X-312	4					#10-32x1/4 Rd. Hd. Sc.

Miscellaneous Parts

GAL-1024E	1					Head Band Assembly
RA-4002	1					Circuit Breaker Assy.
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 10-22-37)

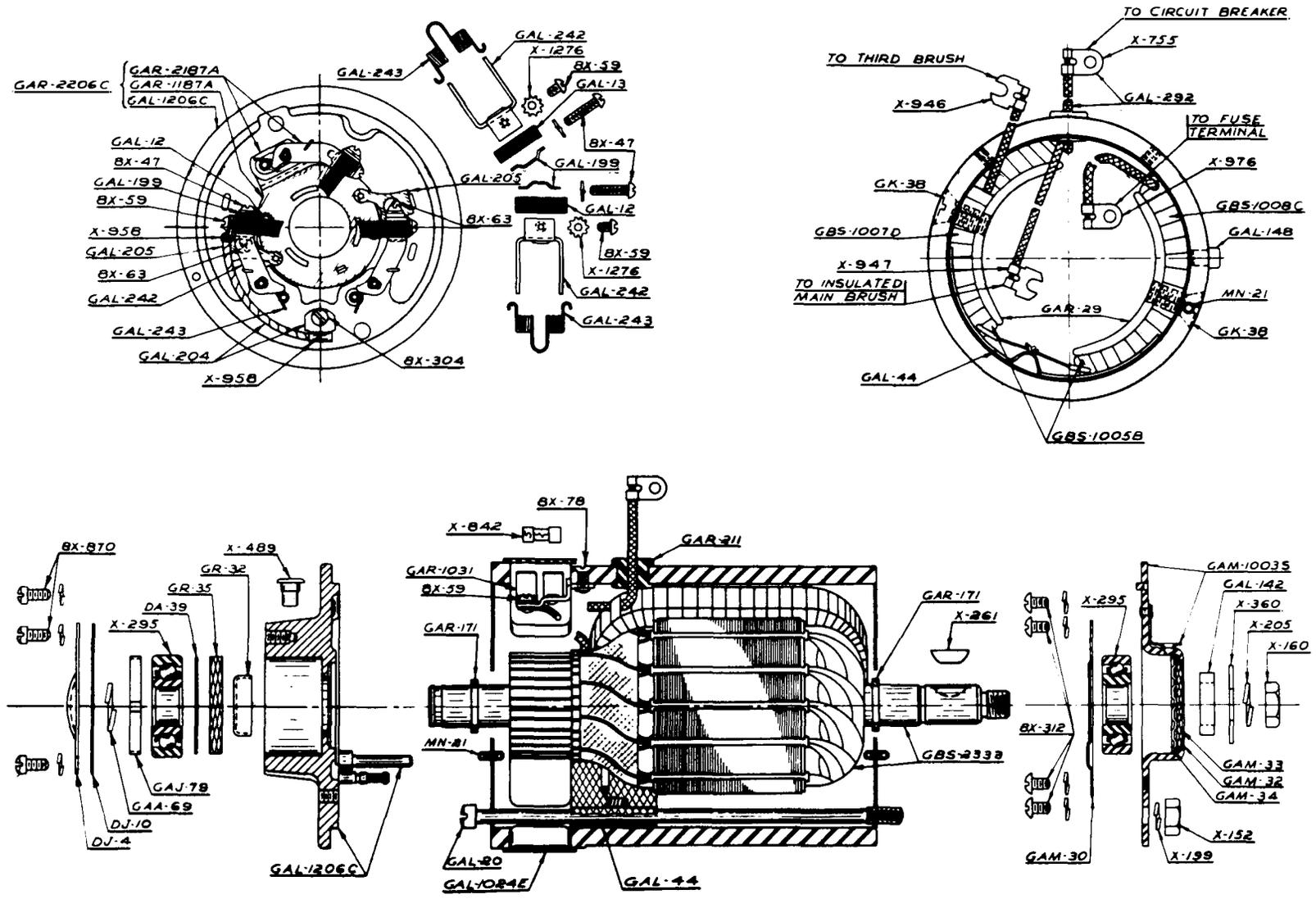
† Service Brush Set GAL-2012

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GBS-4502 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBS-4605 GENERATOR PARTS LIST

GBS-4605

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
(GBS-2136)	1	Frame & Field Assy.					GBS-2135F	1	Armature Assy.				
CAG-125S	1	Mounting Bracket					GAR-171	2	Snap Ring				
CAL-44	1	Field Connection Insulator					GR-32	1	Felt Washer Retainer				
GAR-29	2	Pole Piece					SP-96	1	Ventilating Fan				
GAR-211	1	Insulating Bushing					X-258	1	#3 Woodruff Key				
GBS-1005	1	Field Coil Assy.-Comp.					X-261	2	#6 Woodruff Key				
GBS-1007	1	Field Coil Assy.-Left					<u>Drive End Head Assy. & Parts Used With</u>						
GAL-289	1	C. E. Lead Assy.					GAR-1062B	1	Drive End Head Assy.				
X-755	1	Terminal					GAR-62A	1	Drive End Head				
X-1425	1	Terminal					GAR-63	2	Felt Guard				
X-976	1	Terminal					GAR-64	2	Bearing Retainer				
GBS-1008	1	Field Coil Assy.-Right					GG-164	2	Felt Washer				
X-767	1	Terminal					8X-173	3	#10-32 Hex. Nut				
GK-38	2	Pole Piece Screw					X-295	1	Ball Brg.-S.A.E. #203				
MN-21	2	Dowel Pin					X-489	1	1/4 Oiler - Press in Type				
SX-113	2	5/16-24 Hex. Hd. Screw					8X-1003	3	#10-32x7/8 Rd. Hd. Screw				
X-203	2	5/16 Lock Washer					X-1270	3	#10 Skpf. - Washer				
MW-20	2	Frame Screw					<u>Miscellaneous Parts</u>						
X-199	2	1/4 Lock Washer					GAL-1024E	1	Head Band Assembly				
<u>Comm. End Plate Assy. & Parts Used With</u>						TC-4310A	1	Two Charge Regulator					
DA-39	2	Flat Oil Guard					X-196	4	#10 Lock Washer				
DA-70	1	Armature Shaft Nut					8X-321	4	#10-32x5/16 Rd. Hd. Screw				
EJ-10	1	End Cap Cover Gasket					X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
GAG-53	1	Comm. End Cap Cover					8X-794	1	#10-32 Square Nut				
(GAL-2213A)	1	Comm. End Plate Assy.							1	2	3	4	5
GAL-51	2	3rd Brush Plate Retaining Spring					(Issued 10-22-37)						
GAL-1161	1	3rd Brush Plate Assy.											
GAL-1213A	1	C.E. Plate Part Assy.											
GAR-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											
GR-35	2	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											
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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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBS-4606 GENERATOR PARTS LIST

GBS-4606

PRELIMINARY

<u>Frame & Field Assembly & Parts Used With</u>						<u>Armature Assembly & 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
(GBS-3136)	1	Frame & Field Assembly					GBS-2135F	1	ARMATURE ASSEMBLY				
GAG-125S	1	Mounting Bracket					GAR-171	2	Snap Ring				
GAL-44	1	Field Connection Assembly					GR-32	1	Felt Washer Retainer				
GAR-29	2	Pole Piece					SP-96C	1	Ventilating Fan				
GAR-211	1	Insulating Bushing					X-258	1	#3 Woodruff Key				
GBS-2005	1	FIELD COIL ASSY.- Comp.					X-261	2	#6 Woodruff Key				
GBS-1007A	1	Field Coil Assy.-Left					<u>Drive End Head Assembly & Parts Used With</u>						
GAL-298	1	C. B. Lead Assy.					GAR-1062B	1	Drive End Head Assembly				
X-755	1	Terminal					GAR-62A	1	Drive End Head				
X-1425	1	Terminal					GAR-63	2	Felt Guard				
X-976	1	Terminal					GAR-64	2	Bearing Retainer				
GBS-1008	1	Field Coil Assy.-Right					GG-164	2	Felt Washer				
X-767	1	Terminal					8X-173	3	#10-32 Hex. Nut				
GK-38	2	Pole Piece Screw					X-295	1	BALL BRG.- S.A.E. #203				
MN-21	2	Dowel Pin					X-489	1	1/4 Oiler - Press in Type				
8X-113	2	5/16-24x5/8 Hex. Hd. Sc.					8X-1003	3	#10-32x7/8 Rd. Hd. Sc.				
X-203	2	5/16 Lock Washer					X-1270	3	#10 Skpf. Washer				
MW-20	2	Frame Screw					<u>Miscellaneous Parts</u>						
X-199	2	1/4 Lock Washer					GAL-1024E	1	Head Band Assembly				
<u>Comm. End Plate Assembly & Parts Used With</u>						TC-4310A	1	TWO CHARGE REGULATOR					
DA-39	2	Flat Oil Guard					X-196	4	#10 Lock Washer				
DA-70	1	Armature Shaft Nut					8X-321	4	#10-32x5/16 Rd. Hd. Screw				
DJ-10	1	End Cap Cover Gasket					X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
GAG-53	1	Comm. End Cap Cover					8X-794	1	#10-32 Square Nut				
(GAR-3175)	1	Comm. End Plate Assembly							1	2	3	4	5
GAL-51	2	3rd Brush Plate Retaining Spring					(Issued 7-1-41)						
GAR-1012†	2	Brush - Main											
GAR-1175	1	C. E. Plate Part Assembly											
GAR-2176	1	3rd Brush Plate Assy.											
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	2	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											
X-544	3	#10 Lock Washer											
8X-870	3	#10-32x5/16 Fill. Hd. Screw											
		1	2	3	4	5							

† SERVICE BRUSH SET GBM-2012AS..

UNIT	APPLICATION
GBS-4606	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."



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBS-4611 GENERATOR PARTS LIST

GBS-4611

PRELIMINARY

Frame & Field Assembly & Parts Used With				
Part No.	No. Used	Name of Part		
		1	2	3 4 5
(GBS-2121)	1	Frame & Field Assy.		
GAL-44	1	Field Connection Ins.		
GAR-29	2	Pole Piece		
GAR-211	1	Insulating Bushing		
GBS-1005	1	FIELD COIL ASSY.-Comp.		
GBS-1007	1	Field Coil Assy.-Left		
GAL-289	1	C.B. Lead Assy.		
X-755	1	Terminal		
X-1425	1	Terminal		
X-976	1	Terminal		
GBS-1008	1	Field Coil Assy.-Right		
X-767	1	Terminal		
GK-38	2	Pole Piece Screw		
MN-21	2	Dowel Pin		
MW-20	2	Frame Screw		
X-199	2	1/4 Lock Washer		
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		
GAJ-79	1	Bearing Spacer		
(GAL-2213S)	1	Comm. End Plate Assy.		
GAL-51	2	3rd Br. Plate Retaining Spring		
GAL-1161	1	3rd Brush Plate Assy.		
GAL-1213	1	C.E. Plate Part Assy.		
GEM-1012A†	2	Brush - Main		
GEM-1013A†	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. So.		
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		
X-544	3	#10 Lock Washer		
8X-870	3	#10-32x5/16 Fill. Hd. So.		
		1	2	3 4 5

Armature Assembly & Parts Used With				
Part No.	No. Used	Name of Part		
		1	2	3 4 5
DG-1144	1	Oil Thrower		
GAA-69	1	Lock Spring Ring		
GBS-2103	1	ARMATURE ASSEMBLY		
GAR-171	1	Snap Ring		
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				
GAR-1238	1	Drive End Head Assy.		
GAE-47	1	Bearing Retainer		
GAR-238	1	Drive End Head		
8X-66	3	#10-32x1/2 Flat Hd. Sc.		
X-378	1	BALL BEARING - OIL SEAL		
Miscellaneous Parts				
GAL-1024E	1	Head Band Assy.		
TC-4303B	1	TWO CHARGE REGULATOR		
X-196	4	#10 Lock Washer		
8X-321	4	#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 11-3-41)

† Service BRUSH SET GEM-2012AS.

UNIT	APPLICATION
GBS-4611	Worthington

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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

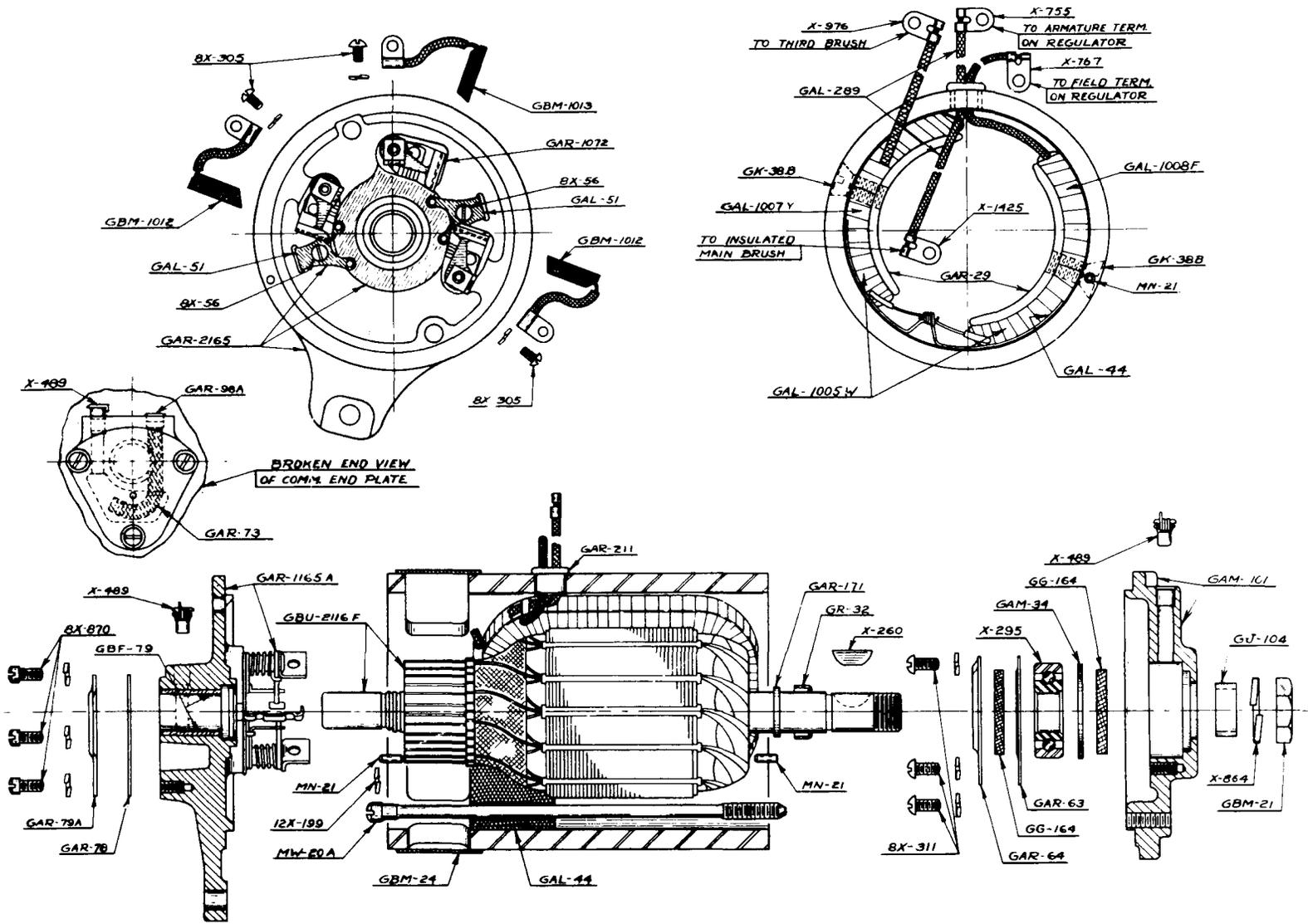
GBU-4201 GENERATOR PARTS LIST

GBU-4201

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	
GAR-2270)	1	Frame & Field Assy.					GBM-21	1	Armature Shaft Nut					
GAL-44	1	Field Connection Ins.					GBU-2116F	1	Armature Assembly					
GAL-1005W	1	Field Coil Assy. - Comp.					GAR-171	1	Snap Ring					
GAL-1007Y	1	Field Coil Assy. - Left					GJ-104	1	Armature Shaft Spacer					
GAL-289	1	C.B. Lead Assy.					GR-32	1	Felt Washer Retainer					
X-755	1	Terminal					X-260	1	#5 Woodruff Key					
X-1425	1	Terminal					X-864	1	.669 Lock Washer					
X-976	1	Terminal					<u>Drive End Head Assembly & Parts Used With</u>							
GAL-1008F	1	Field Coil Assy. - Right					GAM-1101	1	Drive End Head Assy.					
X-767	1	Terminal					GAM-34	1	Oil Guard - Corrugated					
GAR-29	2	Pole Piece					GAM-101	1	Drive End Head					
GAR-211	1	Insulating Bushing					GAR-63	1	Felt Guard					
GK-38B	2	Pole Piece Screw					GAR-64	1	Bearing Retainer					
MN-21	2	Dowel Pin					GG-164	2	Felt Washer					
MW-20A	2	Frame Screw					X-196	3	#10 Lock Washer					
12X-199	2	1/4 Lock Washer					X-295	1	Ball Brg. - S.A.E. #203					
<u>Comm. End Plate Assembly & Parts Used With</u>						8X-311	3	#10-32x3/8 Rd. Hd. Screw						
GAR-2165)	1	Comm. End Plate Assy.					X-489	1	1/4 Oiler - Press in Type					
GAL-51	2	3rd Brush Plate Retain'g Spring					<u>Miscellaneous Parts</u>							
GAR-73	1	Oil Wick					GBM-24	1	Head Band					
GAR-75	1	Oil Guard					TC-4301A	1	Two Charge Regulator					
GAR-78	1	Gasket					8X-321	4	#10-32x5/16 Rd. Hd. Screw					
GAR-79A	1	C.E. Cap Cover					8X-715	1	#10-32x1 1/4 Rd. Hd. Screw					
GAR-98A	1	Wick Cover					8X-794	1	#10-32 Square Nut					
GAR-1072	1	3rd Brush Holder Plate Assembly					X-1270	4	#10 Skpf. Washer					
GAR-1165A	1	C.E. Plate Part Assy.					1	2	3	4	5	(Issued 7-15-35)		
GBF-79	1	Absorbent Bronze Brg.										(R-5-10-37)		
GBM-1012‡	2	Brush - Main												
GBM-1013‡	1	Brush - Third												
8X-56	2	#8-32x7/16 Rd. Hd. Screw												
X-195	1	#8 Lock Washer												
12X-196	3	#10 Lock Washer												
8X-305	1	#8-32x1/4 Rd. Hd. Screw												
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								

‡ Service Brush Set GBM-2012.

"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."



GBU-4201 GENERATOR ILLUSTRATION

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBU-4201 GENERATOR PARTS LIST

GBU-4201

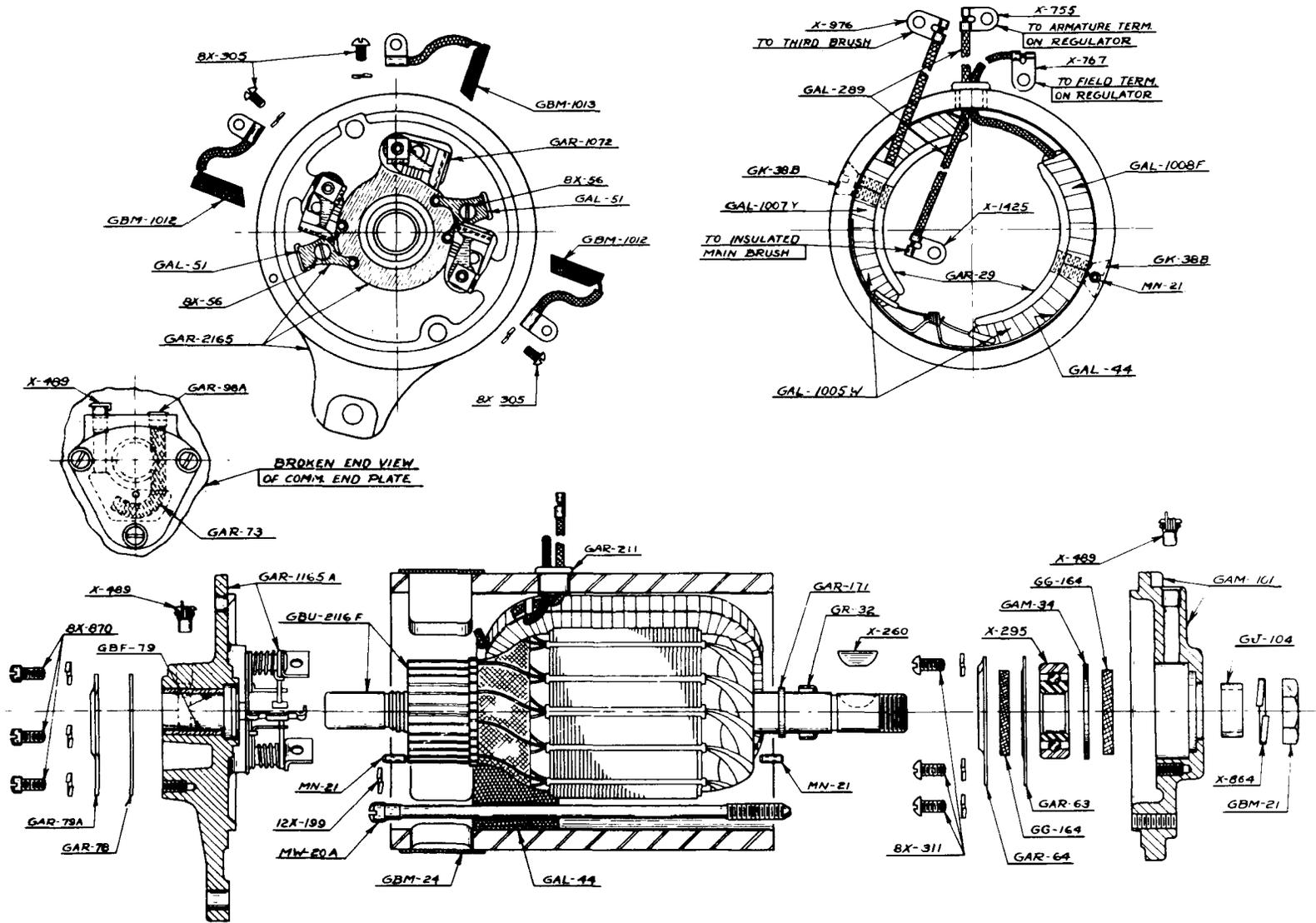
Frame & Field Assembly & Parts Used With					Armature Assembly & Parts Used With								
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
GAR-2270)	1	Frame & Field Assy.					GBM-21	1	Armature Shaft Nut				
GAL-44	1	Field Connection Ins.					GBU-2116F	1	Armature Assembly				
GAL-1005W	1	Field Coil Assy. - Comp.					GAR-171	1	Snap Ring				
GAL-1007Y	1	Field Coil Assy. - Left					GJ-104	1	Armature Shaft Spacer				
GAL-289	1	C.S. Lead Assy.					GR-32	1	Felt Washer Retainer				
X-755	1	Terminal					X-260	1	#5 Woodruff Key				
X-1425	1	Terminal					X-864	1	.669 Lock Washer				
X-976	1	Terminal					<u>Drive End Head Assembly & Parts Used With</u>						
GAL-1008F	1	Field Coil Assy. - Right					GAM-1101	1	Drive End Head Assy.				
X-767	1	Terminal					GAM-34	1	Oil Guard - Corrugated				
GAR-29	2	Pole Piece					GAM-101	1	Drive End Head				
GAR-211	1	Insulating Bushing					GAR-63	1	Felt Guard				
GK-38B	2	Pole Piece Screw					GAR-64	1	Bearing Retainer				
MN-21	2	Dowel Pin					GG-164	2	Felt Washer				
MW-20A	2	Frame Screw					X-196	3	#10 Lock Washer				
12X-199	2	1/4 Lock Washer					X-295	1	Ball Brg. - S.A.E. #203				
<u>Comm. End Plate Assembly & Parts Used With</u>					8X-311	3	#10-32x3/8 Rd. Hd. Screw						
GAR-2165)	1	Comm. End Plate Assy.					X-489	1	1/4 Oiler - Press in Type				
GAL-51	2	3rd Brush Plate Retain'g Spring					<u>Miscellaneous Parts</u>						
GAR-73	1	Oil Wick					GBM-24	1	Head Band				
GAR-75	1	Oil Guard					TC-4301A	1	Two Charge Regulator				
GAR-78	1	Gasket					8X-321	4	#10-32x5/16 Rd. Hd. Screw				
GAR-79A	1	C.E. Cap Cover					8X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
GAR-98A	1	Wick Cover					8X-794	1	#10-32 Square Nut				
GAR-1072	1	3rd Brush Holder Plate Assembly					X-1270	4	#10 Skpf. Washer				
GAR-1165A	1	C.E. Plate Part Assy.					1 2 3 4 5						
GBF-79	1	Absorbent Bronze Brg.					(Issued 7-15-35) (R-5-10-37)						
GBM-1012‡	2	Brush - Main											
GBM-1013‡	1	Brush - Third											
8X-56	2	#8-32x7/16 Rd. Hd. Screw											
X-195	1	#8 Lock Washer											
12X-196	3	#10 Lock Washer											
8X-305	1	#8-32x1/4 Rd. Hd. Screw											
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							

‡ Service Brush Set GBM-2012.

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GBU-4201 GENERATOR ILLUSTRATION

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBU-4202 GENERATOR PARTS LIST

GBU-4202

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
(GAR-2271)	1	Frame & Field Assy.					GAR-1170	1	Oil Thrower				
GAL-44	1	Field Connection Ins.					GAR-2272F	1	Armature Assembly				
GAL-1005Z	1	Field Coil Assy. - Comp.					Drive End Head Assembly & Parts Used With						
GAL-1007T	1	Field Coil Assy. - Left					GAR-1162	1	Drive End Head Assembly				
GAL-298	1	C.B. Lead Assy.					GAR-95	1	Felt Washer				
X-755	1	Terminal					GAR-162	1	Drive End Head				
X-1425	1	Terminal					GX-9	1	D.E. Packing Retainer				
X-976	1	Terminal					GX-10	1	Gasket				
GAL-1008F	1	Field Coil Assy. - Right					X-196	3	#10 Lock Washer				
X-767	1	Terminal					8X-311	3	#10-32x3/8 Rd. Hd. Screw				
GAR-29	2	Pole Piece					X-378	1	Ball Brg. - S.A.E. #204 Oil Seal				
GAR-211	1	Insulating Bushing					X-489	1	1/4 Oiler - Press in Type				
GK-38B	2	Pole Piece Screw					Miscellaneous Parts						
MN-21	2	Dowel Pin					GBM-24	1	Head Band				
MW-20A	2	Frame Screw					TC-4301A	1	Two Charge Regulator				
12X-199	2	1/4 Lock Washer					8X-321	4	#10-32x5/16 Rd. Hd. Screw				
Comm. End Plate Assembly & Parts Used With						8X-715	1	#10-32x1 1/4 Rd. Hd. Screw					
(GAR-2163)	1	Comm. End Plate Assy.					8X-794	1	#10-32 Square Nut				
GAL-51	2	3rd Brush Plate Retain'g Spring					X-1270	4	#10 Skpf. Washer				
GAR-73	1	Oil Wick					1 2 3 4 5						
GAR-75	1	Oil Guard					(Issued 7-15-35)						
GAR-78	1	Gasket					(R-5-10-37)						
GAR-79A	1	C.E. Cap Cover											
GAR-98A	1	Wick Cover											
GAR-1072	1	3rd Brush Holder Plate Assembly											
GAR-1163A	1	C.E. Plate Part Assy.											
GBF-79	1	Absorbent Bronze Brg.											
GBM-1012†	2	Brush - Main											
GBM-1013†	1	Brush - Third											
8X-56	2	#8-32x7/16 Rd. Hd. Screw											
X-195	1	#8 Lock Washer											
12X-196	3	#10 Lock Washer											
8X-305	1	#8-32x1/4 Rd. Hd. Screw											
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							

† Service Brush Set GBM-2012.

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBU-4204 GENERATOR PARTS LIST

GBU-4204

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
(GAR-2117)	1	Frame & Field Assy.					
GAL-44	1	Field Connection Ins.					
GAL-1005W	1	Field Coil Assy. - Comp.					
GAL-1007Y	1	Field Coil Assy. - Left					
GAL-289	1	C.B. Lead Assy.					
X-755	1	Terminal					
X-1425	1	Terminal					
X-976	1	Terminal					
GAL-1008F	1	Field Coil Assy. - Right					
X-767	1	Terminal					
GAR-29	2	Pole Piece					
GAR-211	1	Insulating Bushing					
GK-38B	2	Pole Piece Screw					
MN-21	2	Dowel Pin					
MW-20A	2	Frame Screw					
12X-199	2	1/4 Lock Washer					

Comm. End Plate Assembly & Parts Used With

(GAR-2163)	1	Comm. End Plate Assy.					
GAL-51	2	3rd Brush Plate Retain'g Spring					
GAR-73	1	Oil Wick					
GAR-75	1	Oil Guard					
GAR-78	1	Gasket					
GAR-79A	1	C.E. Cap Cover					
GAR-98A	1	Wick Cover					
GAR-1072	1	3rd Brush Holder Plate Assembly					
GAR-1163A	1	C.E. Plate Part Assy.					
GBF-79	1	Absorbent Bronze Brg.					
GBM-1012‡	2	Brush - Main					
GBM-1013‡	1	Brush - Third					
8X-56	2	#8-32x7/16 Rd. Hd. Screw					
X-195	1	#8 Lock Washer					
12X-196	3	#10 Lock Washer					
8X-305	1	#8-32x1/4 Rd. Hd. Screw					
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
GAL-1279	1	Oil Thrower					
GBU-2277F	1	Armature Assembly					
GAR-171	1	Snap Ring					
GK-215	1	7/16 Plain Washer					
GR-32	1	Felt Washer Retainer					
X-258	1	#3 Woodruff Key					
X-404	1	3/32x1 Cotter Pin					
X-1380	1	7/16-20 Castellated Nut					

Drive End Head Assembly & Parts Used With

GAL-1280	1	Drive End Head Assy.					
GAL-280	1	Drive End Head					
GG-6	1	Felt Guard - With Oil Well					
GG-164	1	Felt Washer					
GK-85	1	Paper Gasket					
X-196	3	#10 Lock Washer					
8X-311	3	#10-32x3/8 Rd. Hd. Screw					
X-441	1	Ball Brg. - N.D. 7503					

Miscellaneous Parts

GBM-24	1	Head Band					
TC-4301A	1	Two Charge Regulator					
8X-321	4	#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	4	#10 Skpf. Washer					
		1 2 3 4 5					

(Issued 7-15-35)
(R-5-10-37)

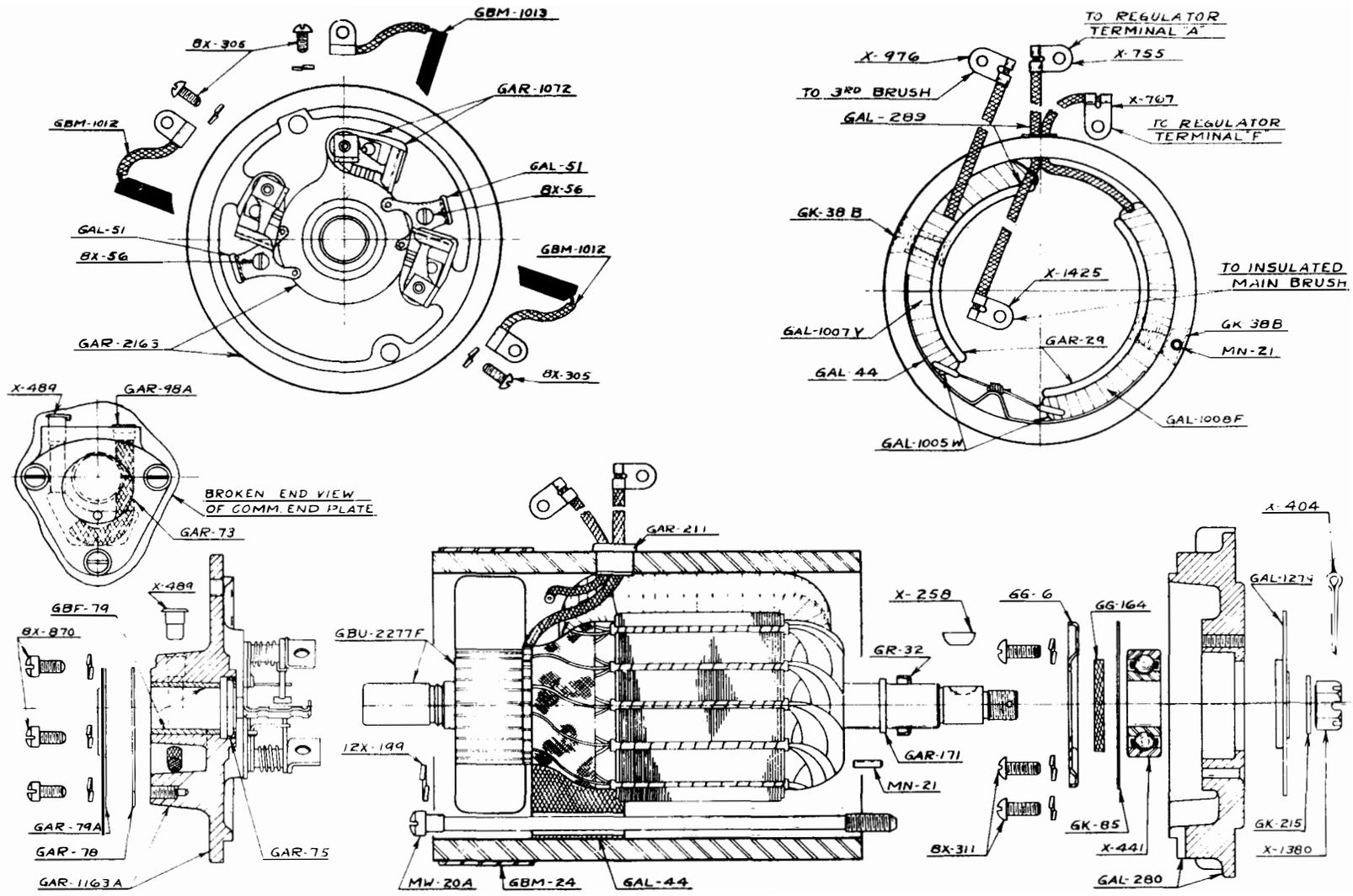
‡ Service Brush Set GBM-2012.

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GBU-4204 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBU-4204 GENERATOR PARTS LIST

GBU-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
(GAR-2117)	1	Frame & Field Assy.					GAL-1279	1	Oil Thrower				
GAL-44	1	Field Connection Ins.					GBU-2277F	1	Armature Assembly				
GAL-1005W	1	Field Coil Assy. - Comp.					GAR-171	1	Snap Ring				
GAL-1007Y	1	Field Coil Assy. - Left					GK-215	1	7/16 Plain Washer				
JAL-289	1	C.B. Lead Assy.					GR-32	1	Felt Washer Retainer				
X-755	1	Terminal					X-258	1	#3 Woodruff Key				
X-1425	1	Terminal					X-404	1	3/32x1 Cotter Pin				
X-976	1	Terminal					X-1380	1	7/16-20 Castellated Nut				
GAL-1008F	1	Field Coil Assy. - Right					Drive End Head Assembly & Parts Used With						
X-767	1	Terminal					GAL-1280	1	Drive End Head Assy.				
GAR-29	2	Pole Piece					GAL-280	1	Drive End Head				
GAR-211	1	Insulating Bushing					GG-6	1	Felt Guard - With Oil Well				
GK-38B	2	Pole Piece Screw					GG-164	1	Felt Washer				
MN-21	2	Dowel Pin					GK-85	1	Paper Gasket				
MW-20A	2	Frame Screw					X-196	3	#10 Lock Washer				
12X-199	2	1/4 Lock Washer					8X-311	3	#10-32x3/8 Rd. Hd. Screw				
							X-441	1	Ball Brg. - N.D. 7503				
Comm. End Plate Assembly & Parts Used With						Miscellaneous Parts							
(GAR-2163)	1	Comm. End Plate Assy.					GBM-24	1	Head Band				
GAL-51	2	3rd Brush Plate Retain'g Spring					TC-4301A	1	Two Charge Regulator				
GAR-73	1	Oil Wick					8X-321	4	#10-32x5/16 Rd. Hd. Screw				
GAR-75	1	Oil Guard					8X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
GAR-78	1	Gasket					8X-794	1	#10-32 Square Nut				
GAR-79A	1	C.E. Cap Cover					X-1270	4	#10 Skpf. Washer				
GAR-98A	1	Wick Cover							1	2	3	4	5
GAR-1072	1	3rd Brush Holder Plate Assembly					(Issued 7-15-35)						
GAR-1163A	1	C.E. Plate Part Assy.					(R-5-10-37)						
GBF-79	1	Absorbent Bronze Brg.											
GBM-1012‡	2	Brush - Main											
GBM-1013‡	1	Brush - Third											
8X-56	2	#8-32x7/16 Rd. Hd. Screw											
X-195	1	#8 Lock Washer											
12X-196	3	#10 Lock Washer											
8X-305	1	#8-32x1/4 Rd. Hd. Screw											
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							

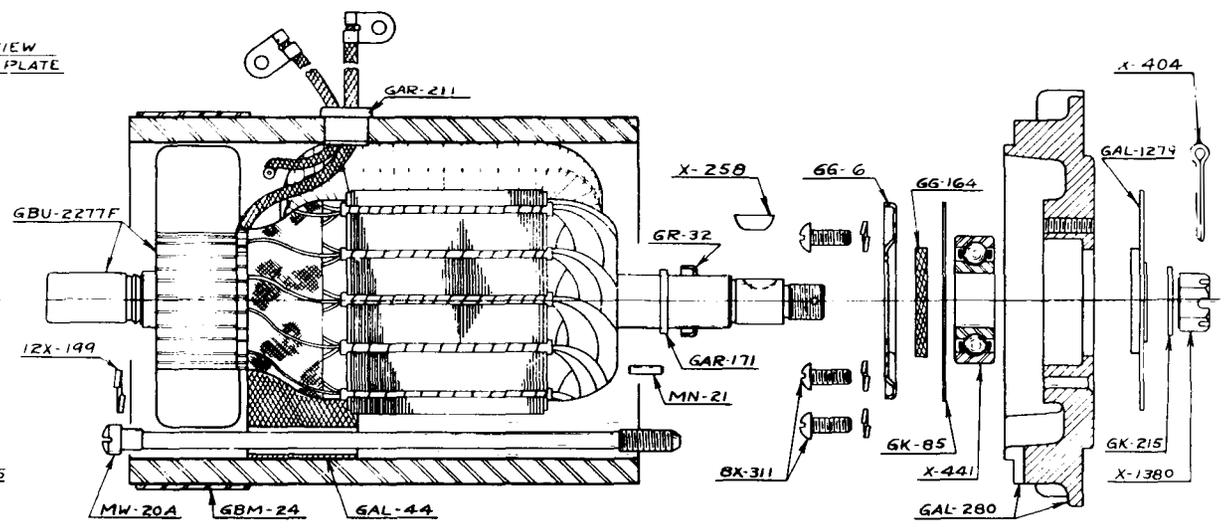
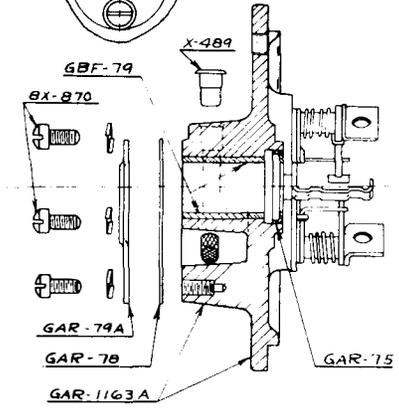
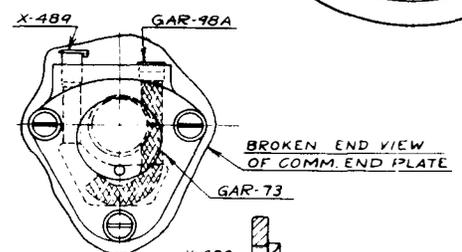
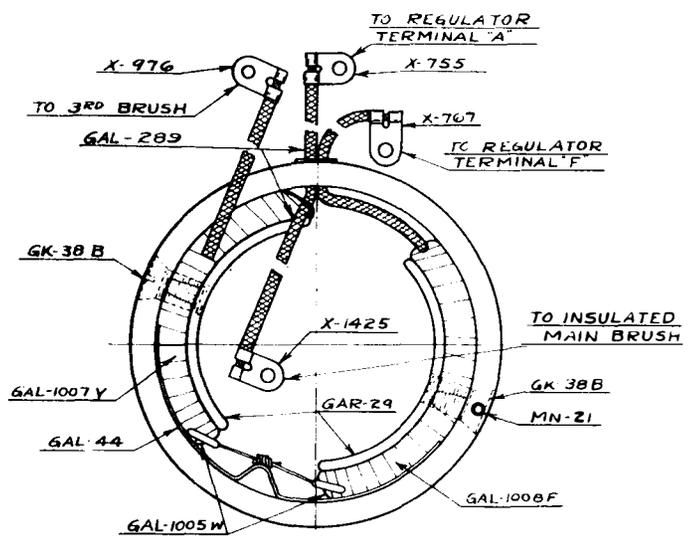
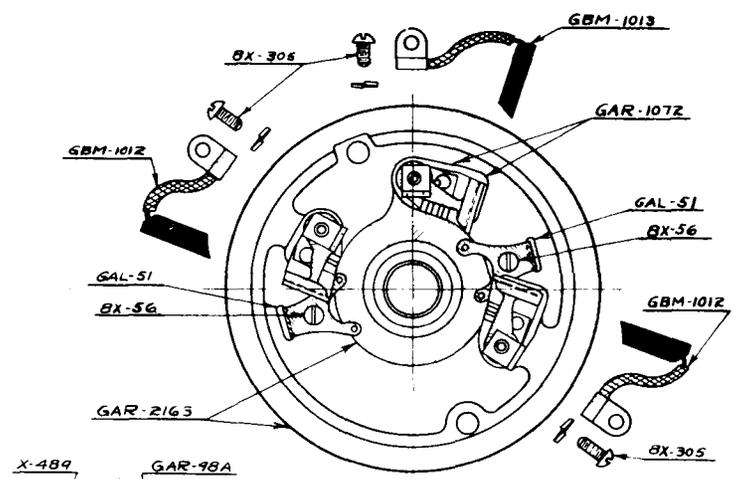
‡ Service Brush Set GBM-2012.

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GBU-4204 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBU-4208 GENERATOR PARTS LIST

GBU-4208

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					GBM-21	1	Armature Shaft Nut				
(GAR-2111A)	1	Frame & Field Assy.					GBU-2116	1	Armature Assembly				
GAL-44	1	Field Connection Ins.					GAR-171	1	Snap Ring				
GAL-1005L	1	Field Coil Assy. - Comp.					GR-32	1	Felt Washer Retainer				
GAL-1007L	1	Field Coil Assy. - Left					SP-229	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					Drive End Head Assembly & Parts Used With						
GAL-1008D	1	Field Coil Assy. - Right					GAM-1101A	1	Drive End Head Assy.				
X-976	1	Terminal					GAM-34	1	Oil Guard - Corrugated				
GAL-1224	1	Fuse Holder					GAM-101A	1	Drive End Head				
GAR-29	2	Pole Piece					GAR-63	1	Felt Guard				
GAR-211	1	Insulating Bushing					GAR-64	1	Bearing Retainer				
GK-38	2	Pole Piece Screw					GG-164	2	Felt Washer				
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					8X-311	3	#10-32x3/8 Rd. Hd. Screw				
MW-20	2	Frame Screw					X-489	1	1/4 Oiler - Press in Type				
X-199	2	1/4 Lock Washer					Miscellaneous Parts						
X-842	1	Fuse - 5 ampere					CB-4014	1	Circuit Breaker Assy.				
Comm. End Plate Assembly & Parts Used With						CB-123	1	Armature Spring					
(GAR-2165A)	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. Screw				
GAR-73	1	Oil Wick					X-196	2	#10 Lock Washer				
GAR-75	1	Oil Guard					8X-312	1	#10-32x1/4 Rd. Hd. Screw				
GAR-78	1	Gasket					GAL-1024	1	Head Band Assy.				
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. Screw				
GAR-1072	1	3rd Brush Holder Plate Assembly					X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
GAR-1165C	1	C.E. Plate Part Assy.					8X-794	1	#10-32 Square Nut				
GBF-79	1	Absorbent Bronze Brg.					1 2 3 4 5						
GBM-1012†	2	Brush - Main					(Issued 12-29-36)						
CEM-1013†	1	Brush - Third											
8X-56	2	#8-32x7/16 Rd. Hd. Screw											
X-195	1	#8 Lock Washer											
X-196	3	#10 Lock Washer											
8X-305	1	#8-32x1/4 Rd. Hd. Screw											
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							

† Service Brush Set GBM-2012.

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBU-4209,A GENERATOR PARTS LIST

GBU-4209,A

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	
(GAR-2332)	1	Frame & Field Assembly					GBM-21	1	Armature Shaft Nut					
GAL-44	1	Field Connection Ins.					GBU-2116	1	Armature Assembly					
GAL-1005W	1	Field Coil Assy. - Comp.					GAR-171	1	Snap Ring					
GAL-1007Y	1	Field Coil Assy. - Left					*	1	Armature Shaft Spacer					
GAL-289	1	C.B. Lead Assy.					GR-32	1	Felt Washer Retainer					
X-755	1	Terminal					*	1	Drive Pulley					
X-1425	1	Terminal					X-260	1	#5 Woodruff Key					
X-976	1	Terminal					X-864	1	.669 Lock Washer					
GAL-1008F	1	Field Coil Assy. - Right					Drive End Head Assembly & Parts Used With							
X-767	1	Terminal					GAM-1101A	1	Drive End Head Assy.					
GAR-29	2	Pole Piece					GAM-34	1	Oil Guard - Corrugated					
GAR-211	1	Insulating Bushing					GAM-101A	1	Drive End Head					
GK-38B	2	Pole Piece Screw					GAR-63	1	Felt Guard					
MN-21	2	Dowel Pin					GAR-64	1	Bearing Retainer					
MW-20	2	Frame Screw					GG-164	2	Felt Washer					
X-199	2	1/4 Lock Washer					X-196	3	#10 Lock Washer					
Comm. End Plate Assembly & Parts Used With						X-295	1	Ball Brg. - S.A.E. #203						
(GAR-2165A)	1	Comm. End Plate Assembly					8X-311	3	#10-32x3/8 Rd. Hd. Screw					
GAL-51	2	3rd Brush Plate Retain'g Spring					X-489	1	1/4 Oiler - Press in Type					
GAR-73	1	Oil Wick					Miscellaneous Parts							
GAR-75	1	Oil Guard					GAL-1024	1	Head Band Assembly					
GAR-78	1	Gasket					TC-4301B	1	Two Charge Regulator					
GAR-79	1	C.E. Cap Cover					X-196	4	#10 Lock Washer					
GAR-98	1	Wick Cover					8X-321	4	#10-32x5/16 Rd. Hd. Screw					
GAR-1012‡	2	Brush - Main					X-715	1	#10-32x1 1/4 Rd. Hd. Screw					
GAR-1072	1	3rd Brush Holder Plate Assembly					8X-794	1	#10-32 Square Nut					
GAR-1165C	1	C.E. Plate Part Assy.							1	2	3	4	5	
GBF-79	1	Absorbent Bronze Brg.					(Issued 6-21-37)							
GBJ-1013‡	1	Brush - Third					Assembly	Armature	Drive					
8X-56	2	#8-32x7/16 Rd. Hd. Screw					No.	Shaft Spacer	Pulley					
X-195	1	#8 Lock Washer					GBU-4209		GJ-104	None				
X-196	3	#10 Lock Washer					GBU-4209A		None	SP-229				
8X-305	1	#8-32x1/4 Rd. Hd. Screw												
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								

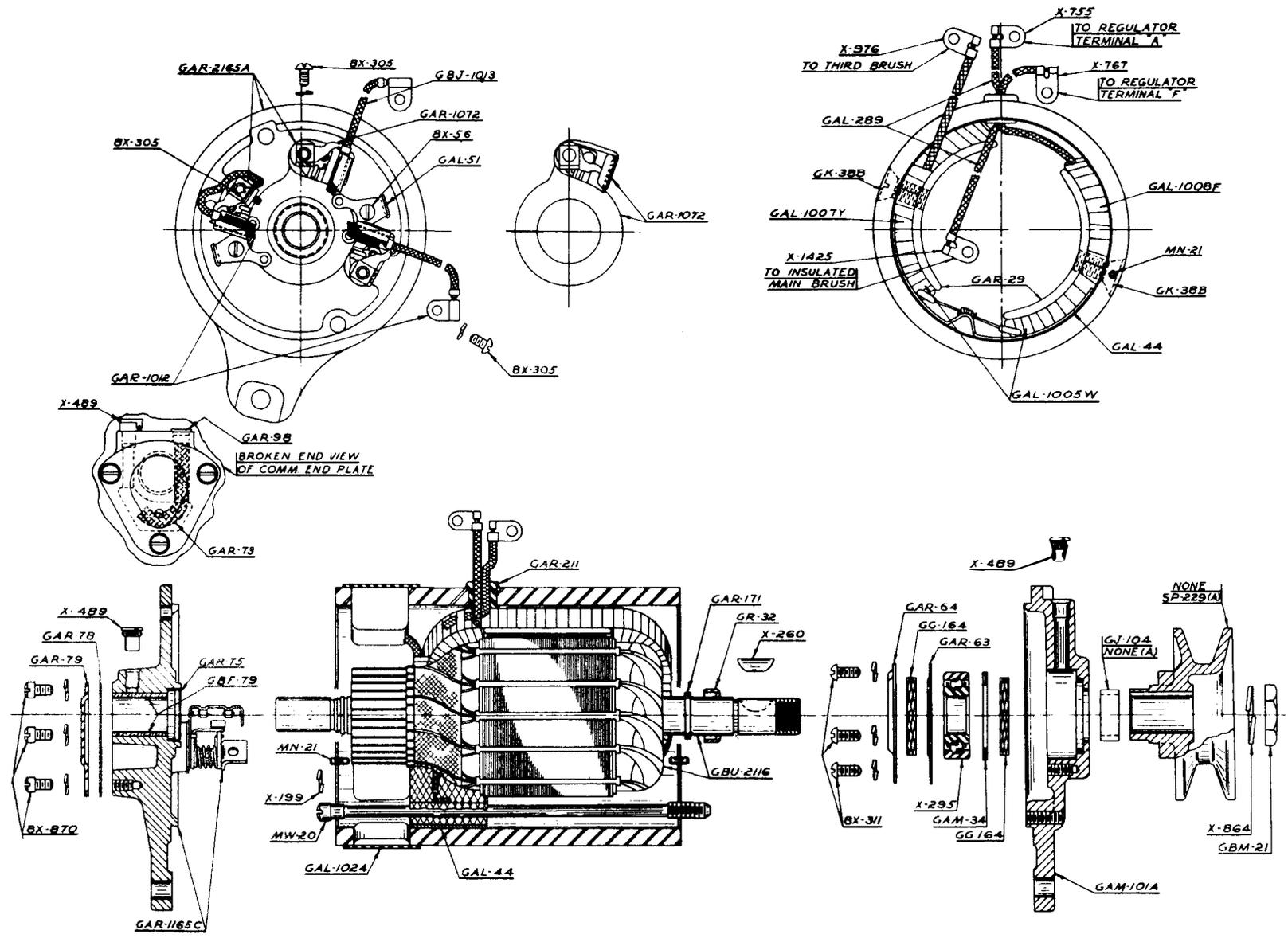
‡ Service Brush Set GAR-2012S.

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File in
Equipment & Parts List Binder

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GBU-4209, A GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBU-4210 GENERATOR PARTS LIST

GBU-4210

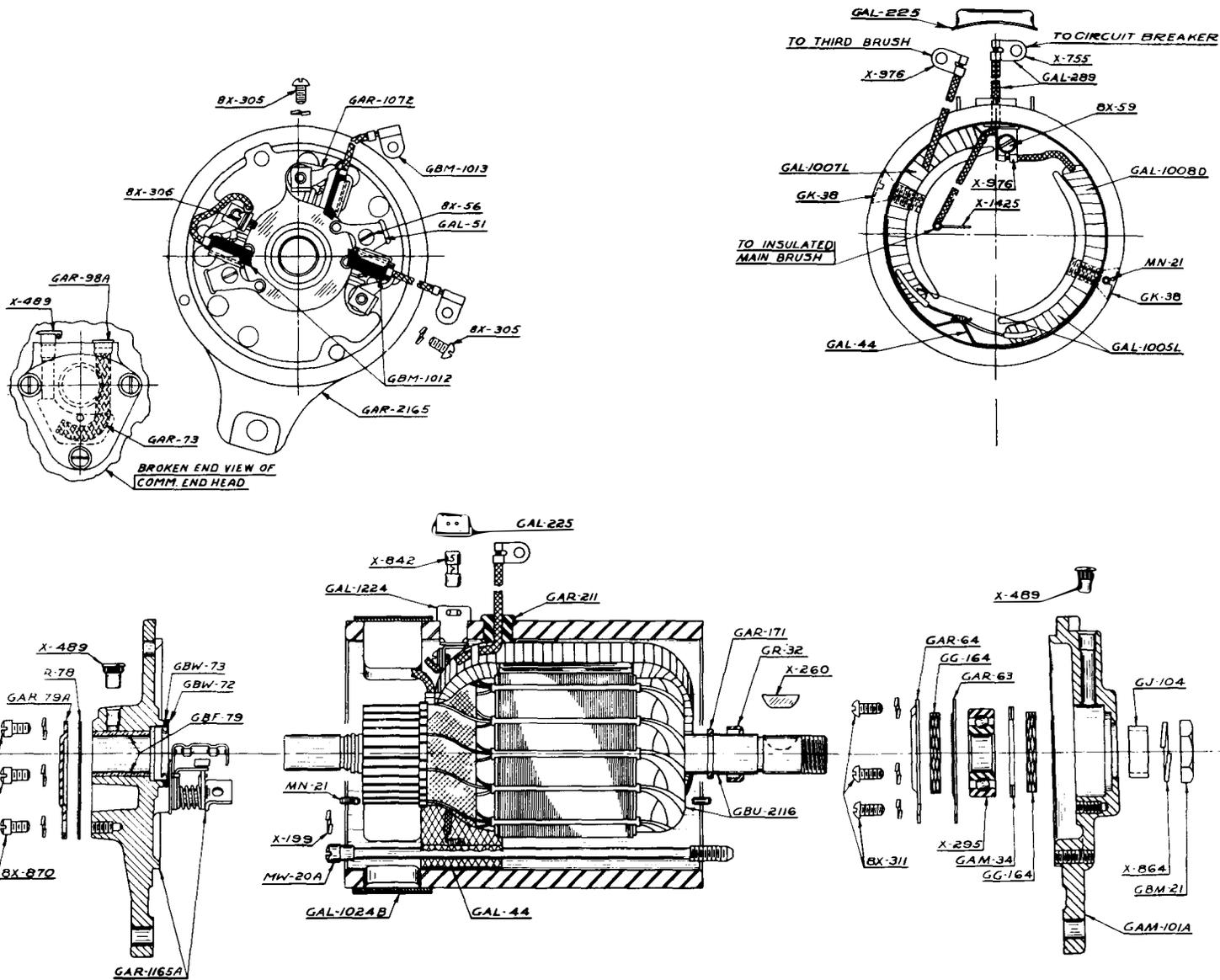
Frame & Field Assembly & Parts Used With						Armature Assembly & Parts Used With							
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
GAL-225	1	Cover, Fuse					GBM-21	1	Nut, Armature Shaft				
(GAR-2226)	1	Frame & Field Assy.					GBU-2116	1	Armature Assy.				
GAL-44	1	Insulation, Field Connection					GAR-171	1	Snap Ring				
GAL-1005L	1	Coil Assy., Field, Comp.					GJ-104	1	Spacer, Armature Shaft				
GAL-1007L	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					Drive End Head Assembly & Parts Used With						
X-976	1	Terminal					GAM-1101A	1	Head Assy., Drive End				
GAL-1008D	1	Coil Assy., Field, Right					GAM-34	1	Retainer, Felt Washer, Outer				
X-976	1	Terminal					GAM-101A	1	Head				
GAL-1224	1	Holder, Fuse					GAR-63	1	Retainer, Felt Washer, Inner				
GAR-211	1	Bushing, Insulating					GAR-64	1	Retainer, Bearing				
GK-38	2	Screw, Pole Shoe					GG-164	2	Washer, Felt				
MN-21	2	Pin, Dowel, Head Locating					X-196	3	Washer, Lock, Retainer Sc., #10				
8X-59	1	Screw, Field Lead, Rd. hd., #8-32x3/16					X-295	1	Bearing, Ball, S.A.E. #203				
X-195	1	Washer, Lock, Field Lead, #8					8X-311	3	Screw, Retainer, Rd. hd., #10-32x3/8				
MW-20A	2	Bolt, Thru					X-489	1	Oiler, Hinge Top, Press in, 1/4				
X-199	2	Washer, Lock, Thru Bolt, 1/4					Miscellaneous Parts						
X-842	1	Fuse, 5 Amps.					CB-4014	1	Relay Assy., Cutout				
Comm. End Head Assembly & Parts Used With						CB-123	1	Spring, Armature					
(GAR-2165)	1	Head Assy., Comm. End					CB-160S	1	Cover				
GAL-51	2	Spring, Retaining, 3rd Brush Plate					PX-55	1	Screw, Arm. Term., Bdg. hd., #10-32x3/16				
GAR-73	1	Wick, Felt					X-196	2	Washer, Lock, Term. Sc., #10				
GAR-78	1	Gasket, Cover					8X-312	1	Screw, Bat. Term., Rd. hd., #10-32x1/4				
GAR-79A	1	Cover, Comm. End					GAL-1024B	1	Band, Cover				
GAR-98A	1	Cover, Wick					X-196	2	Washer, Lock, Cutout Relay Mtg., #10				
GAR-1072	1	Plate, 3rd Brush					8X-308	1	Screw, Cover Band, Rd. hd., #10-32x1 3/8				
GAR-1165A	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-1012‡	2	Brush, Main					(Issued 3-14-44)						
GBM-1013‡	1	Brush, Third											
GBW-72	1	Oil Guard											
GBW-72	1	Gasket, Oil Guard											
8X-56	2	Screw, Plate Retaining, Rd. hd., #8-32x7/16											
12X-196	3	Washer, Lock, Cover Sc., #10											
X-489	1	Oiler, Hinge Top, Press in, 1/4											
8X-870	3	Screw, Cover, Fil. hd., #10-32x5/16											
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-2012.

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBU-4211 GENERATOR PARTS LIST

GBU-4211

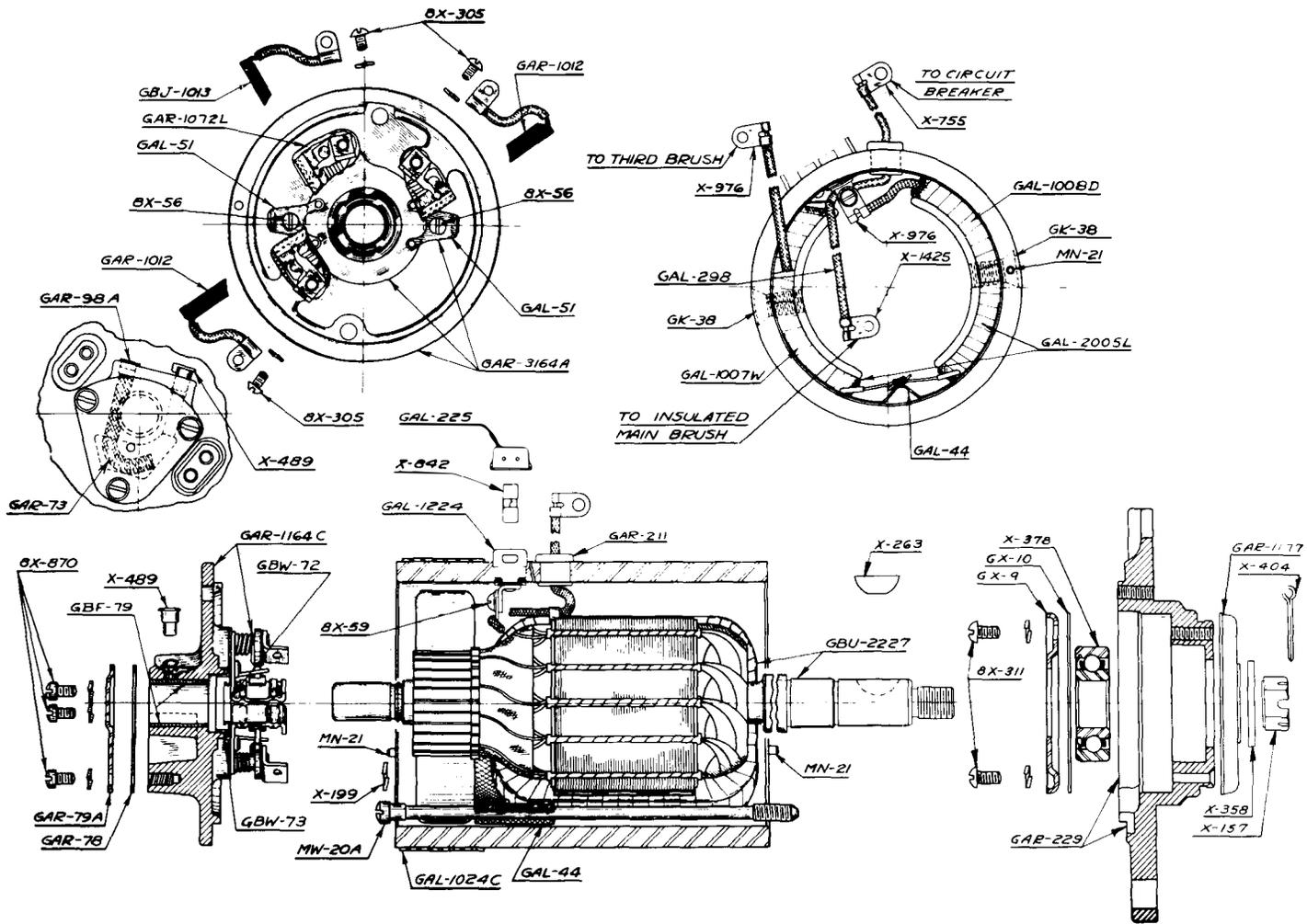
Frame & Field Assembly & Parts Used With					Armature Assembly & Parts Used With									
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part					
		1	2	3	4	5			1	2	3	4	5	
GAL-225	1	Cover, Fuse					GAR-1177	1	Oil Thrower					
(GAR-3230)	1	Frame & Field Assy.					GBU-2227	1	Armature					
GAL-44	1	Insulation, Field Connection					X-157	1	Nut, Armature Shaft, Hex., 1/2-20					
GAL-1224	1	Holder, Fuse					X-263	1	Key, Woodruff, #8					
GAL-2005L	1	Coil Assy., Field, Comp.					X-358	1	Washer, Plain, Arm. Shaft, 1/2					
GAL-1007W	1	Coil Assy., Field, Left					X-404	1	Pin, Cotter, 3/32x1					
GAL-298	1	Lead Assy.					<u>Drive End Head Assembly & Parts Used With</u>							
X-755	1	Terminal					GAR-1229	1	Head Assy., Drive End					
X-1425	1	Terminal					GAR-229	1	Head					
X-976	1	Terminal					GX-9	1	Retainer, Bearing					
GAL-1008D	1	Coil Assy., Field, Right					GX-10	1	Gasket					
X-976	1	Terminal					X-196	3	Washer, Lock, Retainer Screw, #10					
GAR-211	1	Bushing, Insulating					8X-311	3	Screw, Retainer, Rd. hd., #10-32x3/8					
GK-38	2	Screw, Pole Shoe					X-378	1	Bearing, Ball, Shielded, S.A.E. #204					
MN-21	2	Pin, Dowel, Head Locating					<u>Miscellaneous Parts</u>							
8 X-59	1	Screw, Field Lead, Rd. hd., #8-32x3/16					CB-4014	1	Relay Assy., Cutout					
X-195	1	Washer, Lock, Field Lead, #8					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					
X-842	1	Fuse, 5 Amperes					X-196	2	Washer, Lock, Term. Sc., #10					
<u>Comm. End Head Assembly & Parts Used With</u>					8X-312	1	Screw, Bat. Term., Rd. hd., #10-32x1/4							
(GAR-3164A)	1	Head Assy., Comm. End					GAL-1024C	1	Band, Cover					
GAL-51	2	Spring, Retaining, 3rd. Brush Plate					X-196	2	Washer, Lock, Cutout Relay Mtg., #10					
GAR-73	1	Wick, Felt					8X-321	2	Screw, Mtg., Cutout Relay, Rd. hd., #10-32x5/16					
GAR-78	1	Gasket, Cover					X-715	1	Screw, Cover Band, Rd. hd., #10-32x1 1/4					
GAR-79	1	Cover, Comm. End					8X-794	1	Nut, Cover Band, Square, #10-32					
GAR-98A	1	Cover, Wick					1 2 3 4 5							
GAR-1012‡	2	Brush, Main					(Issued 3-14-44)							
GAR-1072L	1	Plate, 3rd. Brush												
GAR-1164C	1	Head Assy., Partial, C.E.												
GBF-79	1	Bearing, Absorbent Bronze												
GBJ-1013‡	1	Brush, Third												
GBW-72	1	Oil Guard												
GBW-73	1	Gasket, Oil Guard												
8X-56	2	Screw, Plate Retaining, Rd. hd., #8-32x7/16												
12X-196	3	Washer, Lock, Cover Screw, #10												
X-489	1	Oiler, Hinge Top, Press in, 1/4												
8X-870	3	Screw, Cover, Fil. hd., #10-32x5/16												
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, GAR-2012S.

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Equipment & Parts List Binder



GBU-4211 GENERATOR ILLUSTRATION

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBU-4212 GENERATOR PARTS LIST

GBU-4212

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GAL-225	1	Fuse Cover
(GAR-2232)	1	Frame & Field Assy.
GAL-44	1	Field Connection Ins.
GAL-1005L	1	FIELD COIL ASSY., COMPLETE
GAL-1007L	1	Field Coil Assy., Left
GAL-289	1	Lead Assy.
X-755	1	Terminal
X-1425	1	Terminal
X-976	1	Terminal
GAL-1008D	1	Field Coil Assy., Right
X-976	1	Terminal
GAL-1224	1	Fuse Holder
GAR-211	1	Insulating Bushing
GK-38	2	Pole Shoe Screw
MN-21	2	Dowel Pin
8X-59	1	#8-32x3/16 Rd. Hd. Sc.
12X-195	1	#8 Lockwasher
MW-20A	2	Thru Bolt
X-199	2	1/4 Lockwasher
X-842	1	Fuse, 5 Amp.

Comm. End Head Assembly & Parts Used With

GAR-2165	1	Comm. End Head Assy.
GAL-51	2	3rd Brush Plate Retaining Spring
GAR-73	1	Oil Wick
GAR-78	1	Gasket, Cover
GAR-79A	1	C.E. Cap Cover
GAR-98A	1	Wick, Cover
GAR-1072	1	3rd. Brush Holder Plate Assy.
GAR-1165A	1	C.E. Head Part Assy.
GBF-79	1	ABSORBENT BRONZE BRG.
GBM-1012†	2	Brush, Main
GBM-1013†	1	Third, Brush
GBW-72	1	Oil Guard
GBW-73	1	Gasket, Oil Guard
8X-56	2	#8-32x7/16 Rd. Hd. Sc.
12X-196	3	#10 Lockwasher
X-489	1	1/4 Oiler
8X-870	3	#10-32x5/16 Fill. Hd. Sc.
X-195	3	#8 Lockwasher
8X-305	3	#8-32x1/4 Rd. Hd. Sc.

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part
GBM-21B	1	Armature Shaft Nut
GBU-2116F	1	ARMATURE ASSEMBLY
GAR-171	1	Snap Ring
GJ-104	1	Armature Shaft Spacer
GR-32	1	Felt Washer Retainer
X-260	1	#5 Woodruff Key
X-864	1	.669 Lockwasher

Drive End Head Assembly & Parts Used With

GAR-1231	1	Drive End Head Assy.
GAM-34A	1	Oil Guard, Corrugated
GAR-63	1	Felt Guard
GAR-64	1	Bearing Retainer
GAR-231	1	Drive End Head
GG-164	2	Felt Washer
X-196	3	#10 Lockwasher
X-295	1	BALL BEARING, S.A.E. #203
8X-311	3	#10-32x3/8 Rd. Hd. Sc.
X-489	1	1/4 Oiler

Miscellaneous Parts

CB-4014	1	RELAY ASSY., CUTOUT
CB-123	1	Armature Spring
CB-160S	1	Cover, Relay
PX-55	1	#10-32x3/16 Bdg. Hd. Sc.
X-196	2	#10 Lockwasher
8X-312	1	#10-32x1/4 Rd. Hd. Sc.
GAL-1024B	1	Cover Band
X-196	2	#10 Lockwasher
8X-321	2	#10-32x5/16 Rd. Hd. Sc.
8X-714	1	#10-32x1 1/2 Rd. Hd. Sc.
8X-794	1	#10-32 Square Nut

† BRUSH SET, SERVICE GBM-2012.

UNIT	APPLICATION
GBU-4212	Buda, Hanson Clutch & Machine Co.

(Issued 4-13-50)

Printed in U. S. A.

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Equipment & Parts List Binder

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBU-4213A GENERATOR PARTS LIST

GBU-4213A

Frame & Field Assy. & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
(GAR-2332)	1	Frame & Field Assembly				
GAL-44	1	Field Connection Ins.				
GAL-1005W	1	FIELD COIL ASSY.- Comp.				
GAL-1007Y	1	Field Coil Assy.-Left				
GAL-289	1	C.B. Lead Assembly				
X-755	1	Terminal				
X-1425	1	Terminal				
X-976	1	Terminal				
GAL-1008F	1	Field Coil Assy.-Right				
X-767	1	Terminal				
GAR-29	2	Pole Piece				
GAR-211	1	Insulating Bushing				
GK-38	2	Pole Piece Screw				
MN-21	2	Dowel Pin				
MW-20	2	Frame Screw				
X-199	2	1/4 Lock Washer				

Comm. End Plate Assy. & Parts Used With

(GAR-2165)	1	Comm. End Plate Assembly				
GAL-51	2	3rd Brush Plate Retaining Spring				
GAR-73	1	Oil Wick				
GAR-75	1	Oil Guard				
GAR-78	1	Gasket				
GAR-79A	1	C. E. Cap Cover				
GAR-98A	1	Wick Cover				
GAR-1072	1	3rd Brush Holder Plate Assembly				
GAR-1165A	1	C. E. Plate Part Assy.				
GBF-79	1	ABSORBENT BRONZE BRG.				
GBM-1012†	2	Brush - Main				
GBM-1013†	1	Brush - Third				
8X-56	2	#8-32x7/16 Rd. Hd. Sc.				
X-195	1	#8 Lock Washer				
12X-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				

Armature Assembly & Parts Used With

GBM-21	1	Armature Shaft Nut				
GBU-2116	1	ARMATURE ASSEMBLY				
GAR-171	1	Snap Ring				
GR-32	1	Felt Washer Retainer				
SP-298	1	Drive Pulley				
X-260	1	#5 Woodruff Key				
X-864	1	.669 Lock Washer				
		1	2	3	4	5

Drive End Head Assy. & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GAM-1101A	1	Drive End Head Assembly				
GAM-34	1	Oil Guard - Corrugated				
GAM-101A	1	Drive End Head				
GAR-63	1	Felt Guard				
GAR-64	1	Bearing Retainer				
GG-164	2	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				
TC-4301B	1	TWO CHARGE REGULATOR				
X-196	4	#10 Lock Washer				
8X-321	4	#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 5-2-40)

† Service BRUSH SET GBM-2012AS.

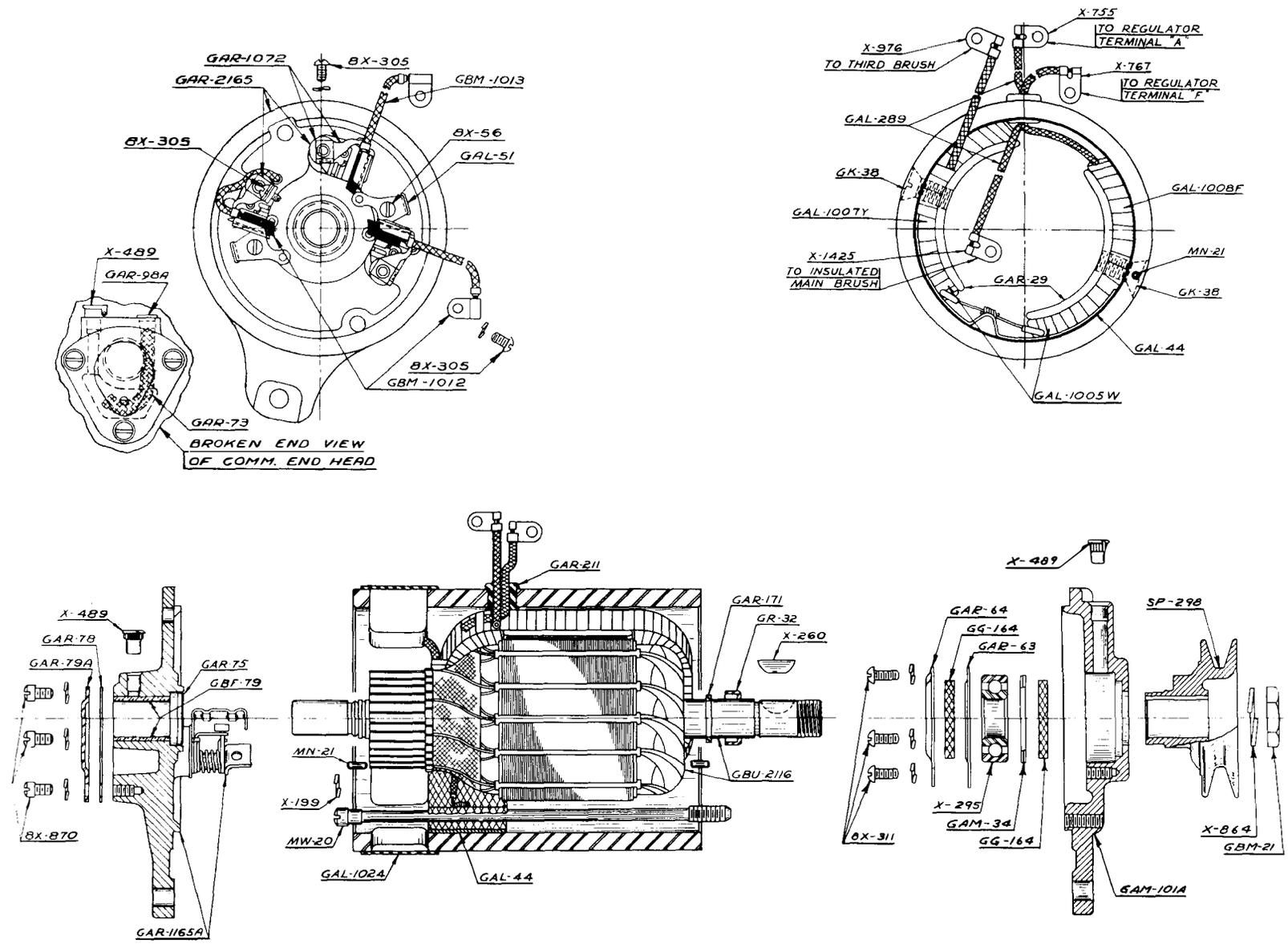
UNIT	APPLICATION
GBU-4213A	Towmotor, Inc.

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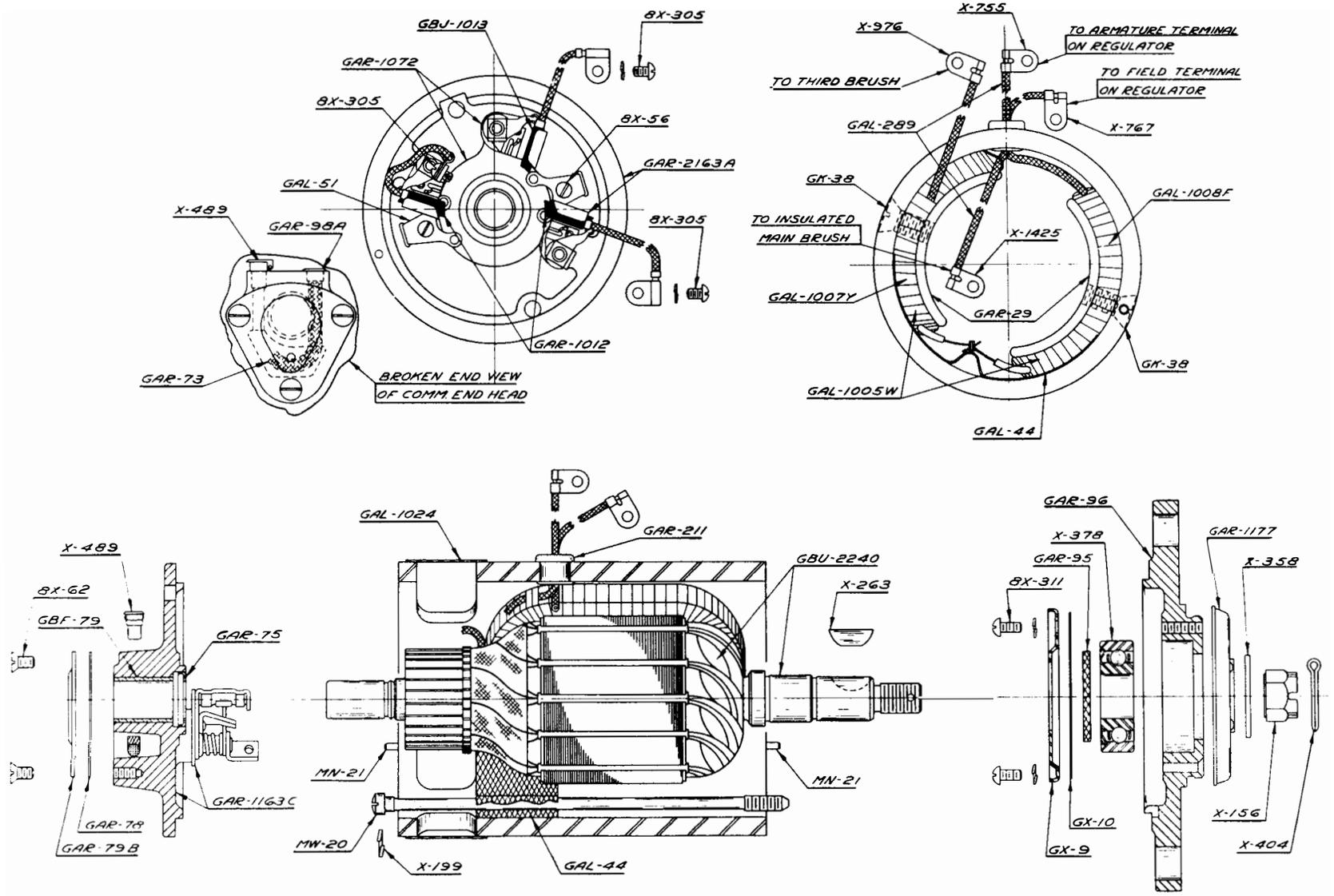
File in
Equipment & Parts List Binder

"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."

GBU-4213A GENERATOR ILLUSTRATION



GBU-4214 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBU-4216, A, B GENERATOR PARTS LIST

GBU-4216, A, B
(Issued 4-28-55)

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	
GAR-2348S	1	Frame & Field Assembly	GAM-1101D	1	Head Assy., Drive End	
GAL-44	1	Insulation, Field Connection	GAM-101	1	Head, Drive End	
GAL-1005W	1	COIL ASSEMBLY, FIELD, COMPLETE	GBM-124	1	Gasket, Brg. Retainer	
GAL-1007Y	1	Coil Assy., Field, Left	GBM-125	1	Retainer, Felt Washer, Inner	
GAL-289	1	Lead Assembly	GBM-127	1	Retainer, Bearing	
X-755	1	Terminal	GBM-128	1	Retainer, Felt Washer, Outer	
X-1425	1	Terminal	GG-164A	2	Washer, Felt	
X-976	1	Terminal	GGW-52	3	Screw, Brg. Retainer, Rd. Hd. #10-32x1/2	
GAL-1008F	1	Coil Assy., Field, Right	12X-196	3	Lockwasher, Retainer Screw, #10	
X-767	1	Terminal	X-441	1	BEARING BALL, SHIELDED, S. A. E. #203	
GAR-211	1	Bushing, Insulating	X-2961	1	Oiler	
GK-38	2	Screw, Pole Shoe				
MN-21	2	Pin, Dowel				
MW-20A	2	Bolt, Thru				
12X-199	2	Lockwasher, Thru Bolt, 1/4				
<u>Comm. End Head Assembly & Parts Used With</u>			<u>Miscellaneous Parts</u>			
GAR-2012S	1	BRUSH SET, SERVICE	GAL-1024	1	Band, Cover	
GAR-2165S	1	Head Assy., Comm. End	TC-4301B	1	REGULATOR, TWO CHARGE	
GAL-51	2	Spring, Retaining, 3rd Brush Plate	12X-196	4	Lockwasher, Mtg. Screw, #10	
GAR-73	1	Wick, Felt	*	4	Screw, Regulator Mtg., Rd. Hd. #10-32x5/16	
GAR-78	1	Gasket, C. E. Cover	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2	
GAR-79A	1	Cover, Comm. End	8X-794	1	Nut, Cover Band, Square #10-32	
GAR-98A	1	Cover, Wick				
GAR-1072	1	Plate, 3rd Brush				
GAR-1165A	1	Head Assy., Partial, C. E.				
GBF-79	1	BEARING, ABSORBENT BRONZE				
GBW-72	1	Oil Guard				
GBW-73	1	Gasket, Oil Retaining				
8X-56	2	Screw, Retaining Spring, Rd. Hd. #8-32x7/16				
12X-196	3	Lockwasher, Cover Sc., #10				
X-489	1	Oiler				
8X-870	3	Screw, C. E. Cover, Fill. Hd. #10-32x5/16				
12X-195	3	Lockwasher, Lead Screw, #8				
8X-305	3	Screw, Brush Lead, Rd. Hd. #8-32x1/4				
<u>Armature Assembly & Parts Used With</u>			<u>Assembly</u>			
*	1	Nut, Arm. Shaft, D. E.	Armature	Drive	Rd. Hd.	
GBU-2116F	1	ARMATURE ASSEMBLY	No.	Shaft Nut	Pully Screw	
GAR-171	1	Snap Ring				
GJ-104	1	Spacer, Arm. Shaft	GBU-4216	GBM-21B	None	8X-321
GR-32	1	Retainer, Felt Washer	GBU-4216A	SP-834	SP-786	8X-1515
*	1	Pulley, Drive	GBU-4216B	GBM-21B	SP-861	8X-321
X-260	1	Key, Woodruff, C. E., #5				
12X-864	1	Lockwasher, Shaft, D. E.				

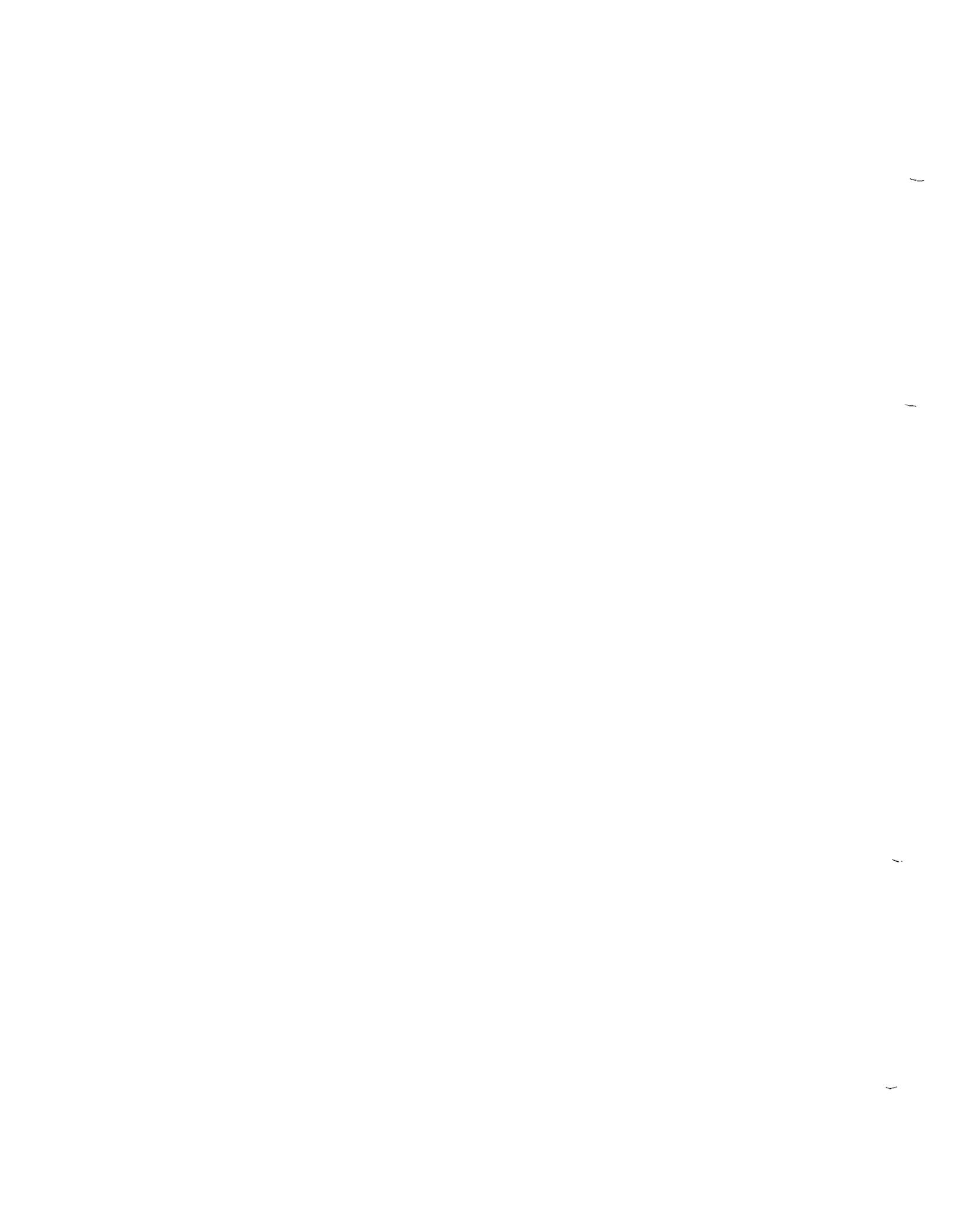
* See table following parts list for part number applying to assembly wanted.

UNIT	APPLICATION
GBU-4216, A, B	Towmotor

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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

GBU-4801 GENERATOR PARTS LIST

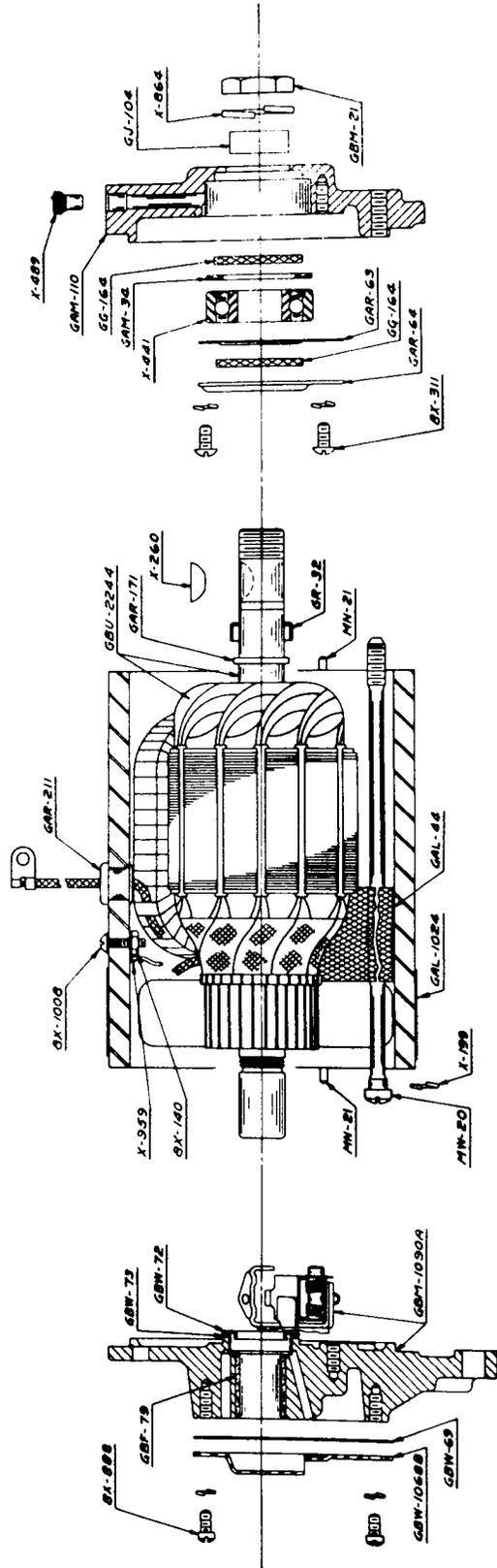
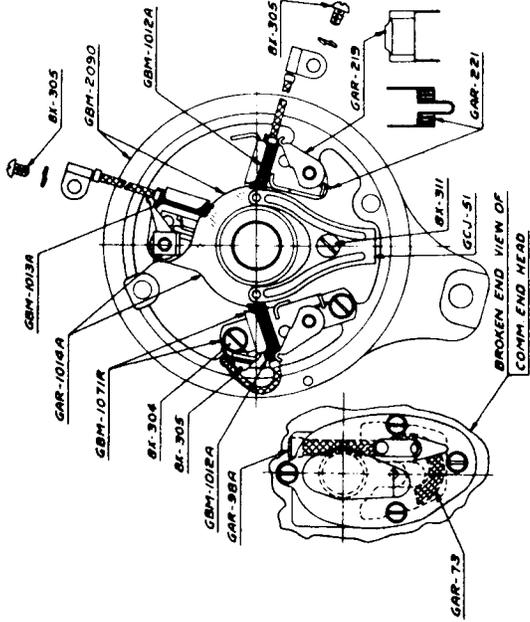
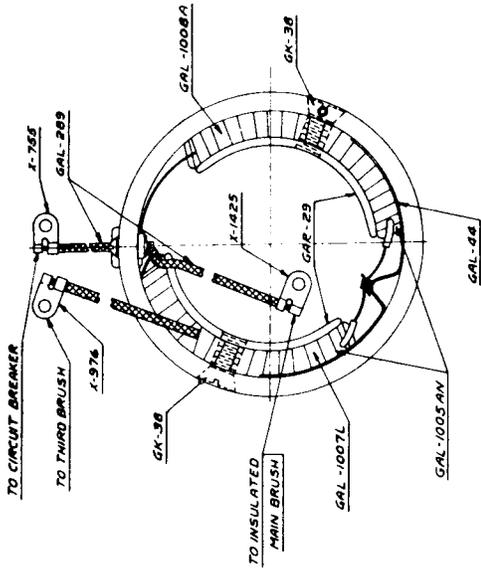
GBU-4801

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	
(GBU-2001)	1	Frame & Field Assy.					GBM-21	1	Nut, Armature Shaft					
GAL-44	1	Insulation, Field Connection					GBU-2244	1	ARMATURE ASSY.					
GAL-1005AN	1	COIL ASSY., FIELD, Comp.					GAR-171	1	Snap Ring					
GAL-1007L	1	Coil Assy., Field, Left					GJ-104	1	Spacer, Arm Shaft					
GAL-289	1	Lead Assy., C.B.					GR-32	1	Retainer, Felt Washer					
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							
GAL-1008A	1	Coil Assy., Field, Right					GAM-1110	1	Head Assy., Drive End					
X-959	1	Terminal					GAM-34	1	Retainer, Felt Washer, Outer					
GAR-29	2	Pole Piece					GAM-110	1	Head					
GAR-211	1	Bushing, Insulating					GAR-63	1	Retainer, Felt Washer, Inner					
GK-38	2	Screw, Pole Piece					GAR-64	1	Retainer, Bearing					
MN-21	2	Pin, Dowel					GG-164	2	Washer, Felt					
8X-140	1	Nut, Hex., #6-32					X-196	3	Washer, Lock, #10					
X-194	1	Washer, Lock, #6					8X-311	3	Screw, Rd. Hd., #10-32x3/8					
8X-1008	1	Screw, Rd. Hd., #6-32x9/16					X-441	1	BEARING, BALL, SHIELDED, S.A.E. #203					
MW-20A	2	Screw, Frame					X-489	1	Oiler, Press in Type, 1/4					
X-199	2	Washer, Lock, Frame Screw, 1/4					Miscellaneous Parts							
Comm. End Head Assembly & Parts Used With						CB-4014	1	CIRCUIT BREAKER						
(GBM-2090)	1	Head Assy., Comm. End					CB-123	1	Spring, Armature					
GAR-73	1	Wick, Felt					CB-160S	1	Cover					
GAR-98A	1	Cover, Wick					PX-55	1	Screw, Arm. Term., #10-32x 3/16					
GAR-1014A	1	Plate, 3rd. Brush					X-196	2	Washer, Terminal, #10					
GBM-1012A†	2	BRUSH, MAIN					8X-312	1	Screw, Battery Terminal., #10-32x1/4					
GBM-1013A†	1	BRUSH, THIRD					GAL-1024	1	Band, Head					
GBM-1090A	1	Head Assy., Partial, Comm. End					X-196	2	Washer, Lock, Regulator Mtg., #10					
GAR-219	1	Arm, Brush					8X-321	2	Screw, Mtg., Regulator, Rd. Hd., #10-32x5/16					
GAR-221	1	Spring, Brush					8X-715	1	Screw, Head Band, Rd. Hd., #10-32x1 1/4					
GBF-79	1	BEARING, ABSORBENT BRONZE					8X-794	1	Nut, Head Band, Square, #10-32 1 2 3 4 5					
GBM-1071R	1	Holder Assy., Main Brush					(Issued 10-22-43)							
GAR-219	1	Arm, Brush					† Brush Set, Service, GBM-2012AS.							
GAR-221	1	Spring, Brush												
X-195	2	Washer, Lock, #8												
8X-304	2	Screw, Rd. Hd., #8-32x 5/16												
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	5	Washer, Lock, #8												
8X-305	1	Screw, Rd. Hd., #8-32x1/4												
8X-311	1	Screw, Rd. Hd., #10-32x3/8												
8X-888	4	Screw, Fill. Hd., #8-32x5/16												
X 195	2	Washer, Lock, Brush Lead, #8												
8X-305	2	Screw, Brush Lead, Rd-hd., #8-32x1/4												
		1	2	3	4	5								

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBW-4602 GENERATOR PARTS LIST

GBW-4602

<u>Frame & Field Assy. & Parts Used With</u>						<u>Armature Assembly & 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
(GBW-2036)	1	Frame & Field Assembly						GAR-1177	1	Oil Throter Assembly					
GAA-32	1	Terminal Post Top Ins.						GBM-21	1	Armature Shaft Nut					
GAL-44	1	Field Connection Ins.						GBW-2037F	1	ARMATURE ASSEMBLY					
GBJ-31	1	Terminal Post Lead Assy.						GAR-171	1	Snap Ring					
GAA-27	1	Terminal Post						GK-174	1	1/2 Plain Washer					
X-1425	1	Terminal						SP-96C	1	Ventilating Fan					
GBW-29	2	Pole Piece						X-156	1	1/2-20 Castellated Nut					
GBW-34	1	Insulating Washer						X-258	1	#3 Woodruff Key					
GBW-66	1	Terminal Post Bottom Ins.						X-263	1	#8 Woodruff Key					
GBW-67	1	Terminal Post Bottom Ins.						X-404	1	3/32x1 Cotter Pin					
GBW-1005	1	FIELD COIL ASSY.- Comp.						X-864	1	.669 Lock Washer					
GBW-58	1	Terminal Post						<u>Drive End Head Assy. & Parts Used With</u>							
GBW-1007	1	Field Coil Assy.-Left						GAR-1096A	1	Drive End Head Assembly					
X-847	1	Terminal						GAR-95	1	Felt Washer					
GBW-1008	1	Field Coil - Right						GAR-96A	1	Drive End Head					
GCT-25	1	Insulating Bushing						GX-9	1	D. E. Packing Retainer					
GCY-25	1	Insulating Bushing						GX-10	1	Gasket					
GK-38	2	Pole Piece Screw						X-196	3	#10 Lock Washer					
MN-21	2	Dowel Pin						8X-311	3	#10-32x3/8 Rd. Hd. Sc.					
8X-177	1	#14-24 Hex. Nut						X-378	1	BALL BRG. - Oil Seal					
12X-193	1	#14 Lock Washer						<u>Miscellaneous Parts</u>							
12X-196	1	#10 Lock Washer						GBW-24B	1	Head Band Assembly					
8X-349	1	#10 Plain Washer						8X-715	1	#10-32x1 1/4 Rd. Hd. Screw					
8X-361	1	1/4 Plain Washer						8X-794	1	#10-32 Square Nut					
8X-1377	1	#10-32 Hex. Nut									1	2	3	4	5
GK-20	2	Frame Screw													
8X-177	1	#14-24 Hex. Nut													
12X-193	1	#14 Lock Washer													
12X-196	2	#10 Lock Washer													
X-199	2	1/4 Lock Washer													
8X-321	1	#10-32x5/16 Rd. Hd. Screw													
8X-1377	1	#10-32 Hex. Nut													
<u>Comm. End Plate Assy. & Parts Used With</u>															
DA-39	2	Flat Oil Guard													
DA-132	1	Felt Washer													
GAB-188	1	Felt Washer													
GAR-82	1	Air Deflector													
GAR-83	1	Comm. End Cap Cover													
GBJ-25	1	End Cap Cover Gasket													
GBW-2038	1	Comm. End Plate Assembly													
GBW-1012†	2	Brush - Main													
X-195	1	#8 Lock Washer													
8X-305	1	#8-32x1/4 Rd. Hd. Screw													
GR-32	1	Felt Washer Retainer													
X-62	6	#10-32x3/8 Flat Hd. Screw													
X-195	1	#8 Lock Washer													
X-295	1	BALL BEARING - S.A.E. #203													
8X-305	1	#8-32x1/4 Rd. Hd. Screw													
X-489	1	1/4 Oiler - Press in Type													
			1	2	3	4	5								

† SERVICE BRUSH SET GBW-2012S.

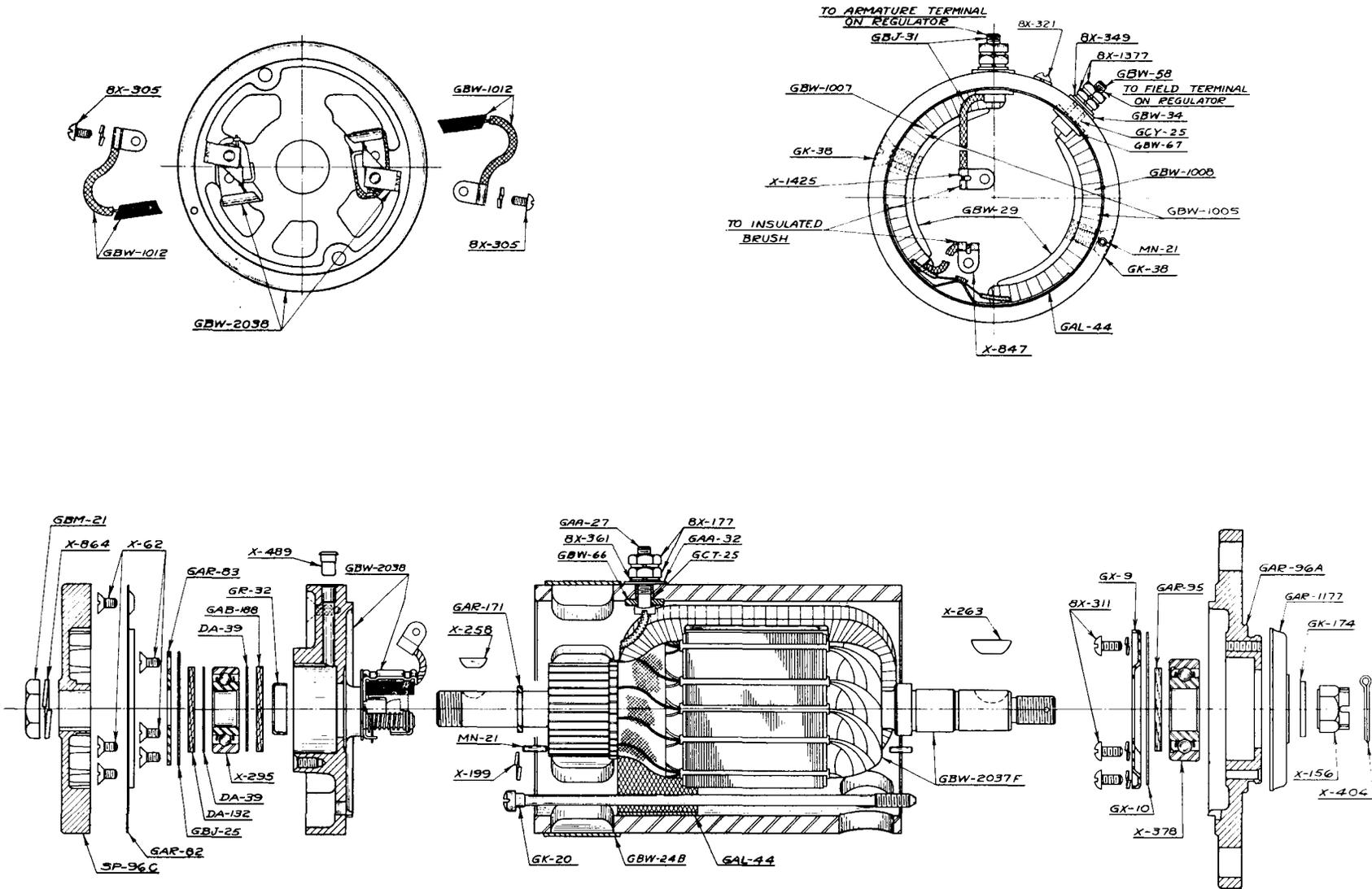
NOTE:- VRB-4003A CURRENT-VOLTAGE REGULATOR is used with but is not part of this generator.

(Issued 7-31-40)

UNIT	APPLICATION
GBW-4602	White Motor Car Co.

"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."

GBW-4602 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBW-4802 GENERATOR PARTS LIST

GBW-4802

Frame & Field Assembly & Parts Used With			Comm. End Head Assy. & Parts (Cont'd.)						
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part				
(GBW-2048)	1	Frame & Field Assy.	8X-305	2	#8-32x1/4 Rd. Hd. Sc.				
GAA-32	1	Washer, Ins., Arm. Term.	X-489	1	1/4 Oiler				
GAL-44	1	Insulation, Field Connection	8X-726	3	#10-32x7/16 Bdg. Hd. Sc.				
GBW-34	1	Washer, Ins., Field Term.	X-1270	3	#10 Skpf. Washer				
GBW-40	1	Lead Assy.	X-1621	3	#10 Skpf. Washer				
GAA-27	1	Stud, Arm. Term.	<u>Armature Assembly & Parts Used With</u>						
X-847	1	Terminal	GAR-1177	1	Oil Thrower				
GBW-66	1	Insulation, Arm. Term., Inner	GBM-21B	1	Armature Shaft Nut, C.E.				
GBW-67	1	Insulation, Field Term., Inner	GBW-2037F	1	ARMATURE ASSY.				
GBW-1005A	1	FIELD COIL ASSY., COMPLETE	GAR-171	1	Snap Ring				
GBW-1007A	1	Field Coil Assy., Left	GK-174	1	1/2 Plain Washer				
IG-821	1	Terminal	SP-96C	1	Ventilating Fan				
GBW-1008	1	Field Coil, Right	X-156	1	1/2-20 Castellated Nut				
GEB-58	1	Stud, Field Term.	X-258	1	#3 Woodruff Key, C.E.				
GCT-25	1	Bushing, Ins., Arm. Term.	X-263	1	#8 Woodruff Key, D.E.				
GCY-25	1	Bushing, Ins., Field Term.	X-404	1	3/32x1 Cotter Pin				
GK-38	2	Screw, Pole Shoe	12X-864	1	Lockwasher, Shaft, C.E.				
MN-21	2	Pin, Dowel	<u>Drive End Head Assembly & Parts Used With</u>						
8X-177	2	#14-24 Hex. Nut	GAR-1096A	1	Drive End Head Assy.				
12X-193	2	#14 Lockwasher	GAR-95	1	Felt Washer				
12X-196	2	#10 Lockwasher	GAR-96A	1	Drive End Head				
8X-349	1	#10 Plain Washer	GX-9	1	Bearing, Retainer				
8X-361	1	1/4 Plain Washer	GX-10	1	Gasket				
8X-1377	2	#10-32 Hex. Nut	X-196	3	#10 Lockwasher				
GK-20	2	Thru Bolt	8X-311	3	#10-32x3/8 Rd. Hd. Sc.				
12X-196	1	#10 Lockwasher	X-378	1	BALL BEARING, S.A.E. #204				
12X-199	2	1/4 Lockwasher	<u>Miscellaneous Parts</u>						
8X-321	1	#10-32x5/16 Rd. Hd. Screw	GBW-24B	1	Band, Cover				
<u>Comm. End Head Assy. & Parts Used With</u>			8X-714	1	#10-32x1 1/2 Rd. Hd. Sc.				
DA-39	2	Flat Oil Guard	8X-794	1	#10-32 Square Nut				
DA-132	1	Felt Washer	† BRUSH SET, SERVICE GGU-2012S.						
GAB-188	1	Felt Washer	NOTE: VRP-4102A CURRENT-VOLTAGE REGULATOR is used with but is not a part of this generator.						
GAR-82	1	Air Deflector	<table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="padding: 2px;">UNIT</th> <th style="padding: 2px;">APPLICATION</th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;">GBW-4802</td> <td style="padding: 2px;">Hercules, Ross Carrier</td> </tr> </tbody> </table>			UNIT	APPLICATION	GBW-4802	Hercules, Ross Carrier
UNIT	APPLICATION								
GBW-4802	Hercules, Ross Carrier								
GAR-83A	1	Comm. End Cover							
GBJ-25	1	End Cover Gasket							
GBW-2038A	1	Comm. End Head Assy.							
GBW-45	2	Brush Spring							
GCJ-26	2	Brush Arm							
GGU-1012†	2	Brush, Main							
GR-32	1	Felt Washer Retainer							
8X-66	3	#10-32x1/2 Flat Hd. Sc.							
X-195	2	#8 Lockwasher							
X-295	1	BALL BEARING, S.A.E. #203							

(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

GBW-4803, GENERATOR PARTS LIST
A,C,D,E

GBW-4803,
A,C,D,E

<u>Frame & Field Assy. & Parts Used With</u>						
Part No.	No. Used	Name of Part				
		1	2	3	4	5
(GBW-2001)	1	Frame & Field Assembly				
GAA-32	1	Terminal Post Top Ins.				
GAL-44	1	Field Connection Ins.				
GBW-29	2	Pole Piece				
GBW-34	1	Insulating Washer				
GBW-40	1	Lead Assembly				
GAA-27	1	Terminal Post				
X-847	1	Terminal				
GBW-58	1	Terminal Post				
GBW-66	1	Terminal Post Bottom Ins.				
GBW-67	1	Terminal Post Bottom Ins.				
GBW-1005A	1	FIELD COIL ASSY. - COMP.				
GBW-1007A	1	Field Coil Assy.-Left				
IG-821	1	Terminal				
GBW-1008	1	Field Coil - Right				
GCT-25	1	Insulating Bushing				
GCY-25	1	Insulating Bushing				
GK-38B	2	Pole Piece Screw				
LN-21	2	Dowel Pin				
8X-177	1	#14-24 Hex. Nut				
12X-193	1	#14 Lock Washer				
12X-196	1	#10 Lock Washer				
8X-349	1	#10 Plain Washer				
8X-361	1	1/4 Plain Washer				
8X-1377	1	#10-32 Hex. Nut				
GY-20	2	Frame Screw				
8X-177	1	#14-24 Hex. Nut				
12X-193	1	#14 Lock Washer				
12X-196	2	#10 Lock Washer				
12X-199	2	1/4 Lock Washer				
8X-321	1	#10-32x5/16 Rd. Hd. Screw				
8X-1377	1	#10-32 Hex. Nut				

<u>Comm. End Plate Assy. & Parts Used With</u>						
Part No.	No. Used	Name of Part				
		1	2	3	4	5
(GBW-2002)	1	Comm. End Plate Assembly				
GAR-73	1	Oil Wick				
GAR-98A	1	Wick Cover				
GBW-69	1	Gasket				
GBW-72	1	Oil Guard				
GBW-73	1	Oil Retaining Gasket				
GBW-1002A	1	C.E. Plate Part Assy.				
GBF-79	1	ABSORBENT BRONZE BRG.				
GBW-45	2	Brush Spring				
GCJ-28	2	Brush Arm				
GBW-1012A1	2	Brush - Main				
GBW-1068B	1	Comm. End Cap Cover				
12X-195	5	#8 Lock Washer				
8X-305	1	#8-32x1/4 Rd. Hd. Screw				
8X-888	4	#8-32x5/16 Fill. Hd. Sc.				
X-195	1	#8 Lock Washer				
8X-305	1	#8-32x1/4 Rd. Hd. Screw				

<u>Armature Assembly & Parts Used With</u>						
Part No.	No. Used	Name of Part				
		1	2	3	4	5
GBM-21	1	Armature Shaft Nut				
GBW-2006F	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				

<u>Drive End Head Assy. & Parts Used With</u>						
Part No.	No. Used	Name of Part				
		1	2	3	4	5
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. Screw				

<u>Miscellaneous Parts</u>						
Part No.	No. Used	Name of Part				
		1	2	3	4	5
GBW-24B	1	Head Band				
8X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
8X-794	1	#10-32 Square Nut				

(Issued 2-1-40)

Assembly No.	Drive Pulley
GBW-4803	None
GBW-4803A	SP-1174
GBW-4803C	SP-1234
GBW-4803D	SP-238
GBW-4803E	SP-154

NOTE:- VRP-4101A CURRENT-VOLTAGE REGULATOR is used with but is not a part of this generator.

‡ SERVICE BRUSH SET GBW-2012AS.

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

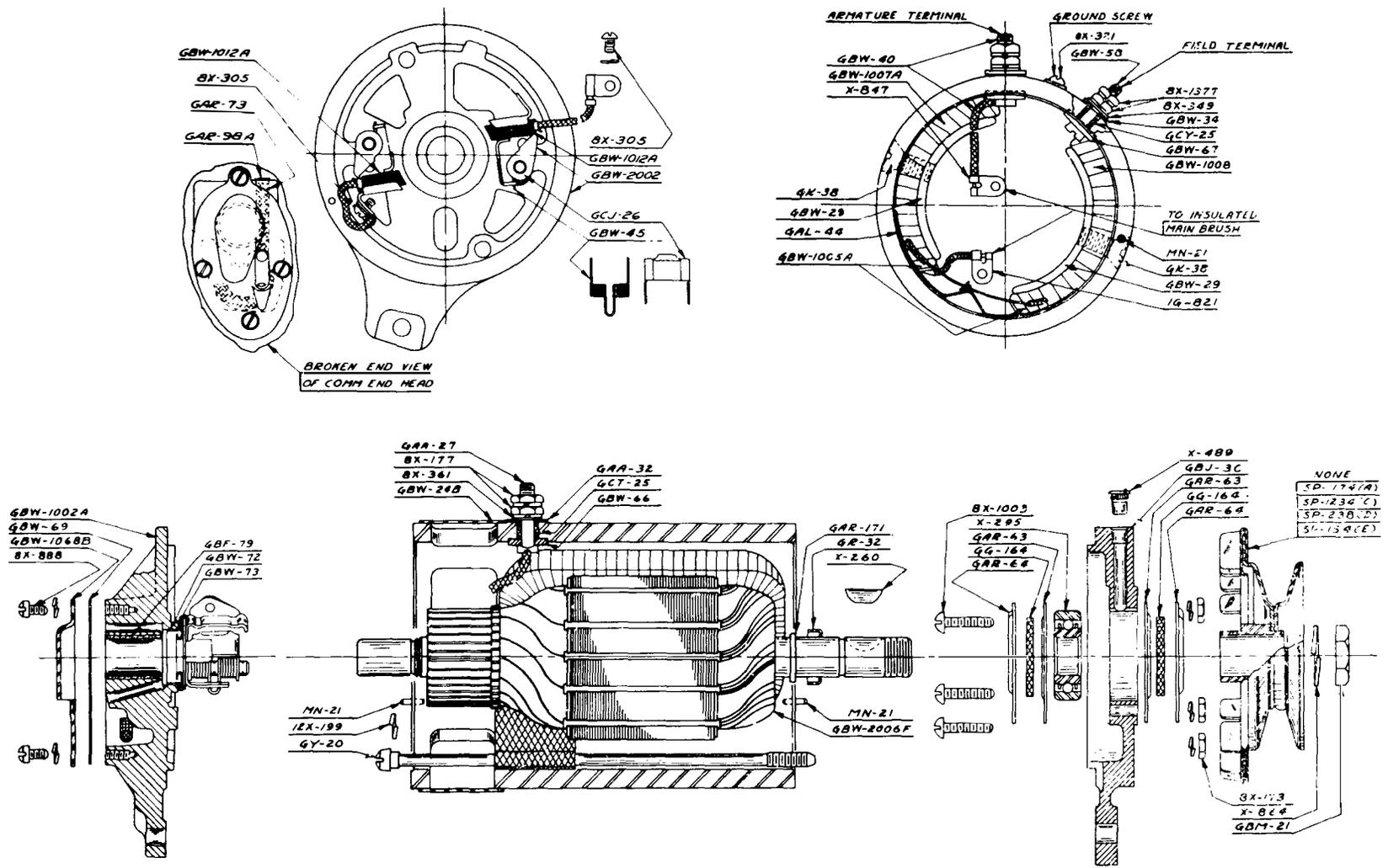
UNIT	APPLICATION
GBW-4803A	Chrysler, DeSoto, Dodge, Plymouth Export
GBW-4803B	DeSoto Export
GBW-4803C	Chrysler Export, DeSoto Export, Dodge, Plymouth Export
GBW-4803D	Dodge Truck, Fargo Truck
GBW-4803E	Plymouth

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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."

GBW-4803A,C,D,E GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBW-4804,A GENERATOR PARTS LIST

GBW-4804,A

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
(GBW-2001)	1	Frame & Field Assy.				
GAA-32	1	Terminal Post Top Ins.				
GAL-44	1	Field Connection Ins.				
GBW-29	2	Pole Piece				
GBW-34	1	Insulating Washer				
GBW-40	1	Lead Assy.				
GAA-27	1	Terminal Post				
X-847	1	Terminal				
GBW-58	1	Terminal Post				
GBW-66	1	Terminal Post Bottom Ins.				
GBW-67	1	Terminal Post Ins.				
GBW-1005A	1	Field Coil Assy.-Comp.				
GBW-1007A	1	Field Coil Assy. - Left				
IG-821	1	Terminal				
GBW-1008	1	Field Coil - Right				
GCT-25	1	Insulating Bushing				
GCY-25	1	Insulating Bushing				
GK-38B	2	Pole Piece Screw				
MN-21	2	Dowel Pin				
8X-177	1	#14-24 Hex. Nut				
12X-193	1	#14 Lock Washer				
12X-196	1	#10 Lock Washer				
8X-349	1	#10 Plain Washer				
8X-361	1	1/4 Plain Washer				
8X-1377	1	#10-32 Hex. Nut				
GY-20	2	Frame Screw				
8X-177	1	#14-24 Hex. Nut				
12X-193	1	#14 Lock Washer				
12X-196	2	#10 Lock Washer				
12X-199	2	1/4 Lock Washer				
8X-321	1	#10-32x5/16 Rd. Hd. Screw				
8X-1377	1	#10-32 Hex. Nut				

Comm. End Plate Assembly & Parts Used With

(GBW-2002)	1	Comm. End Plate Assy.				
GAR-73	1	Oil Wick				
GAR-98A	1	Wick Cover				
GBW-69	1	Gasket				
GBW-72	1	Oil Guard				
GBW-73	1	Oil Retaining Gasket				
GBW-1002A	1	Comm. End Plate Part Assy.				
GBF-79	1	Absorbent Bronze Brg.				
GBW-45	2	Brush Spring				
GCJ-26	2	Brush Arm				
GBW-1012A †	2	Brush - Main				
GBW-1068B	1	C. E. Cap Cover				
12X-195	5	#8 Lock Washer				
8X-305	1	#8-32x1/4 Rd. Hd. Screw				
X-489	1	1/4 Oiler - Press in Type				
8X-888	4	#8-32x5/16 Fill. Hd. Sc.				
X-195	1	#8 Lock Washer				
8X-305	1	#8-32x1/4 Rd. Hd. Screw				
		1	2	3	4	5

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

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GBM-21	1	Armature Shaft Nut				
GBW-2057F	1	Armature Assembly				
*	1	Drive Pulley				
X-263	1	#8 Woodruff Key				
X-864	1	.669 Lock Washer				

Drive End Head Assembly & Parts Used With

GAR-1182	1	Drive End Head Assy.				
GAR-178	2	Bearing Retainer				
GAR-179	2	Felt Guard				
GAR-182	1	Drive End Head				
GJ-147	2	Felt Washer				
8X-173	3	#10-32 Hex. Nut				
X-196	3	#10 Lock Washer				
X-298	1	Ball Brg. - S.A.E. #204				
8X-306	3	#10-32x1 Rd. Hd. Screw				
X-489	1	1/4 Oiler - Press in Type				

Miscellaneous Parts

GBW-24B	1	Head Band				
8X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
8X-794	1	#10-32 Square Nut				
		1	2	3	4	5

(Issued 2-1-40)

Assembly No.	Drive Pulley
GBW-4804	None
GBW-4804A	SP-243

NOTE:- VRP-4101A Current Voltage Regulator used with but not part of this generator.

† Service Brush Set GBW-2012AS.

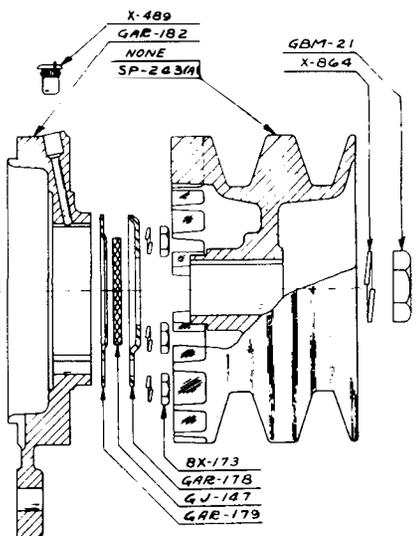
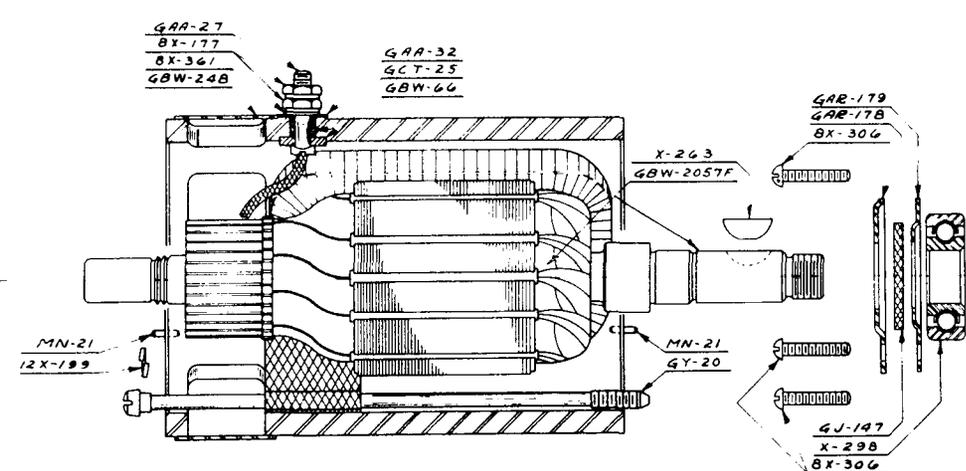
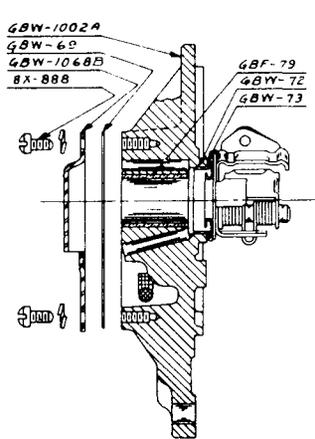
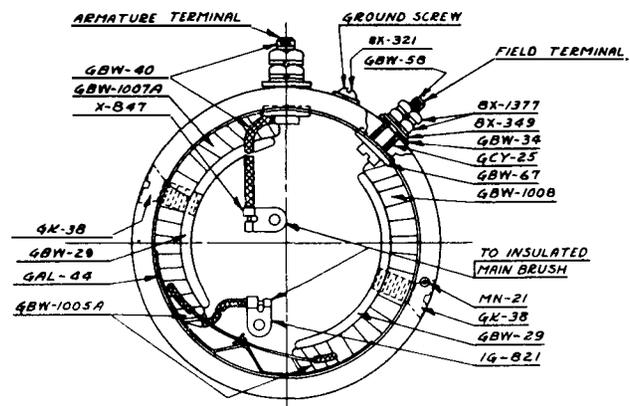
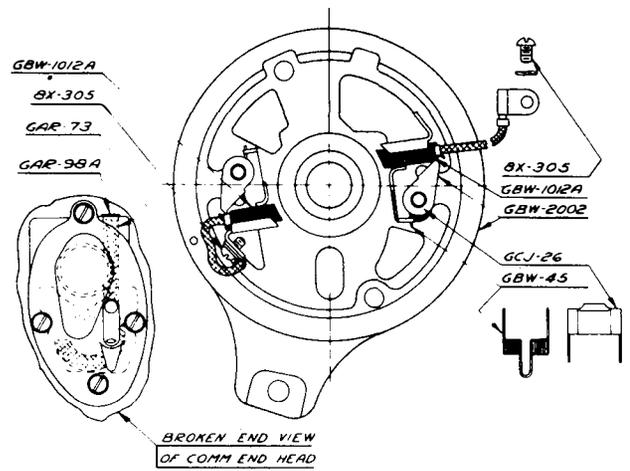
UNIT	APPLICATION
GBW-4804,A	Dodge Truck

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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."

GBW-4804,A GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBW-4805,A GENERATOR PARTS LIST

GBW-4805,A

PRELIMINARY

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
(GBW-2001)	1	Frame & Field Assembly				
GAA-32	1	Terminal Post Top Ins.				
GAL-44	1	Field Connection Ins.				
GBW-29	2	Pole Piece				
GBW-34	1	Insulating Washer				
GBW-40	1	Lead Assembly				
GAA-27	1	Terminal Post				
X-847	1	Terminal				
GBW-66	1	Terminal Post Bottom Ins.				
GBW-67	1	Terminal Post Bottom Ins.				
GBW-1005A	1	FIELD COIL ASSY.- Comp.				
GBW-58	1	Terminal Post				
GBW-1007A	1	Field Coil Assy.-Left				
IG-821	1	Terminal				
GBW-1008	1	Field Coil - Right				
GCT-25	1	Insulating Bushing				
GCT-25	1	Insulating Bushing				
GK-38	2	Pole Piece Screw				
MN-21	2	Dowel Pin				
8X-177	1	#14-24 Hex. Nut				
12X-193	1	#14 Lock Washer				
12X-196	1	#10 Lock Washer				
8X-349	1	#10 Plain Washer				
8X-361	1	1/4 Plain Washer				
8X-1377	1	#10-32 Hex. Nut				
GY-20	2	Frame Screw				
8X-177	1	#14-24 Hex. Nut				
X-193	1	#14 Lock Washer				
X-196	2	#10 Lock Washer				
X-199	2	1/4 Lock Washer				
8X-321	1	#10-32x5/16 Rd. Hd. Screw				
8X-1377	1	#10-32 Hex. Nut				

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				
DA-132	1	Felt Washer				
GBJ-25	1	End Cap Cover Gasket				
GBJ-32A	1	Comm. End Cap Cover				
(GBW-2060)	1	Comm. End Plate Assembly				
GBW-45	2	Brush Spring				
GBW-1012A†	2	Brush - Main				
G CJ-26	2	Brush Arm				
X-195	1	#8 Lock Washer				
8X-305	1	#8-32x1/4 Rd. Hd. Sc.				
GR-32	1	Felt Washer Retainer				
X-195	1	#8 Lock Washer				
X-199	1	1/4 Lock Washer				
X-295	1	BALL BEARING - S.A.E. #203				
8X-305	1	#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. Sc.				
		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				
GBW-2061F	1	ARMATURE ASSEMBLY				
GAR-171	2	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 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 BEARING- S.A.E. #203				
X-489	1	1/4 Oiler - Press in Type				
8X-1003	3	#10-32x7/8 Rd. Hd. Screw				

Miscellaneous Parts

GBW-24B	1	Head Band				
8X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
8X-794	1	#10-32 Square Nut				
		1	2	3	4	5

(Issued 4-18-41)

Assembly No.	Drive Pulley
GBW-4805	None
GBW-4805A	SP-416

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

† SERVICE BRUSH SET GBW-2012AS.

NOTE:- VRP-4102A CURRENT-VOLTAGE REGULATOR is used with but is not a part of this generator.

UNIT	APPLICATION
GBW-4805	Service Unit
GBW-4805A	General Electric

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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

GBW-4808 GENERATOR PARTS LIST

GBW-4808

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
(GBW-2001A)	1	Frame & Field Assembly					GAR-171	1	Snap Ring				
GAA-32	1	Terminal Post Top Ins.					GBW-89	1	Oil Thrower				
GAL-44	1	Field Connection Ins.					GBW-2088F	1	ARMATURE ASSEMBLY				
GBW-29	2	Pole Piece					GAR-171	1	Snap Ring				
GBW-34	1	Insulating Washer					<u>Drive End Head Assembly & Parts Used With</u>						
GBW-40	1	Lead Assembly					GAR-1126	1	Drive End Head Assembly				
GAA-27	1	Terminal Post					GAR-126	1	Drive End Head				
X-847	1	Terminal					GG-6	1	Felt Guard - With Oil Well				
GBW-66	1	Terminal Post Bottom Ins.					GK-85	1	Paper Gasket				
GBW-67	1	Terminal Post Bottom Ins.					X-196	3	#10 Lock Washer				
GBW-1005A	1	FIELD COIL ASSY.-Comp.					X-295	1	BALL BRG.- S.A.E. #203				
GBW-58	1	Terminal Post					8X-311	3	#10-32x3/8 Rd. Hd. Screw				
GBW-1007A	1	Field Coil Assy.-Left					X-489	1	1/4 Oiler - Press in Type				
IG-821	1	Terminal					<u>Miscellaneous Parts</u>						
GBW-1008	1	Field Coil - Right					GBW-24	1	Head Band				
GCT-25	1	Insulating Bushing					X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
GCY-25	1	Insulating Bushing					8X-794	1	#10-32 Square Nut				
GK-38	2	Pole Piece Screw							1	2	3	4	5
MN-21	2	Dowel Pin					(Issued 9-30-41)						
5X-177	1	#14-24 Hex. Nut											
X-193	1	#14 Lock Washer											
X-196	1	#10 Lock Washer											
8X-349	1	#10 Plain Washer											
8X-361	1	1/4 Plain Washer											
5X-1377	1	#10-32 Hex. Nut											
GY-20A	2	Frame Screw											
5X-177	1	#14-24 Hex. Nut											
X-193	1	#14 Lock Washer											
X-196	2	#10 Lock Washer											
X-199	2	1/4 Lock Washer											
8X-321	1	#10-32x5/16 Rd. Hd. Screw											
5X-1377	1	#10-32 Hex. Nut											
<u>Comm. End Plate Assembly & Parts Used With</u>													
(GBW-2051A)	1	Comm. End Plate Assembly											
GAR-73	1	Oil Wick											
GAR-98A	1	Wick Cover											
GBW-69	1	Gasket											
GBW-72	1	Oil Guard											
GBW-73	1	Oil Retaining Gasket											
GBW-1012A†	2	Brush - Main											
GBW-1051D	1	C. E. Plate Part Assy.											
GBF-79	1	ABSORBENT BRONZE BRG.											
GBW-45	2	Brush Spring											
GCJ-26	2	Brush Arm											
GBW-1068B	1	Comm. End Cap Cover											
X-195	5	#8 Lock Washer											
8X-305	1	#8-32x1/4 Rd. Hd. Sc.											
X-888	4	#8-32x5/16 Fill. Hd. Sc.											
X-195	1	#8 Lock Washer											
8X-305	1	#8-32x1/4 Rd. Hd. Screw											
		1	2	3	4	5							
† SERVICE BRUSH SET GBW-2012AS.													
NOTE:- VRW-4002A CURRENT-VOLTAGE REGULATOR is used with but is not a part of this generator.													

UNIT	APPLICATION
GBW-4808	Continental

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBX-4601,A GENERATOR PARTS LIST

GBX-4601,A

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
GBD-20A	2	Frame Screw					GBM-21	1	Armature Shaft Nut				
*	1	Frame & Field Assy.					GBX-2006F	1	Armature Assembly				
GAL-44	1	Field Connection Ins.					SP-197	1	Drive Pulley				
GBX-29	2	Pole Piece					X-261	1	#6 Woodruff Key				
GBX-53	1	Insulating Bushing					X-864	1	.669 Lock Washer				
*	1	Field Coil Assy. - Comp.					<u>Drive End Head Assembly & Parts Used With</u>						
*	1	Field Coil Assy - Left					GBX-1003	1	Drive End Head Assy.				
*	1	C.B. Lead Assy. Terminal					GAU-31	1	Felt Washer				
X-755	1	Terminal					GBX-3	1	Drive End Head				
*	1	Terminal					GG-6	1	Bearing Retainer				
IG-321	1	Terminal					GK-176	1	Felt Washer Retainer				
*	1	Field Coil Assy. - Right					GT-76	1	Felt Washer Retainer				
X-767	1	Terminal					GT-78	1	Felt Washer				
GBY-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				
X-203	2	5/16 Lock Washer					8X-311	3	#10-32x3/8 Rd. Hd. Sc.				
<u>Comm. End Plate Assembly & Parts Used With</u>							X-489	1	1/4 Oiler - Press in Type				
DA-22	1	Bearing Retaining Washer					<u>Miscellaneous Parts</u>						
DA-39	1	Flat Oil Guard					GX-1024	1	Head Band Assy.				
DA-60	1	Bearing Retaining Screw					TC-4306A	1	Two Charge Regulator & Circuit Breaker				
DH-7	1	Felt Washer					X-196	4	#10 Lock Washer				
GBJ-25	1	End Cap Cover Gasket					8X-321	4	#10-32x5/16 Rd. Hd. Screw				
GBJ-32	1	Comm. End Cap Cover					*	1	5/16-18x1 1/4 Hex. Hd. Sc.				
(GBX-2002)	1	Comm. End Plate Assy.					X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
GBX-51	1	3rd Brush Plate Retaining Spring					8X-794	1	#10-32 Square Nut				
GBX-1002	2	Comm. End Plate Part Assy.							1	2	3	4	5
GBX-1012†	1	Brush - Main					(Issued 11-9-37)						
GBX-1013†	1	Brush - Third											
GBX-1014	1	3rd Brush Plate Assy.											
X-195	1	#8 Lock Washer											
8X-305	1	#8-32x1/4 Rd. Hd. Screw											
8X-311	1	#10-32x3/8 Rd. Hd. Sc.											
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							

Assembly No.	Frame & Field Assy.	Field Coil Assembly	Field Coil Left	Field Coil Right	Lead Assy.	Screw	Terminal
GBX-4601	(GBX-2001)	GBX-1005	GBX-1007	GBX-1008	GBX-35	None	X-847
GBX-4601A	(GBX-2001A)	GBX-1005A	GBX-1007A	GBX-1008A	GAL-236	8X-420	X-1425

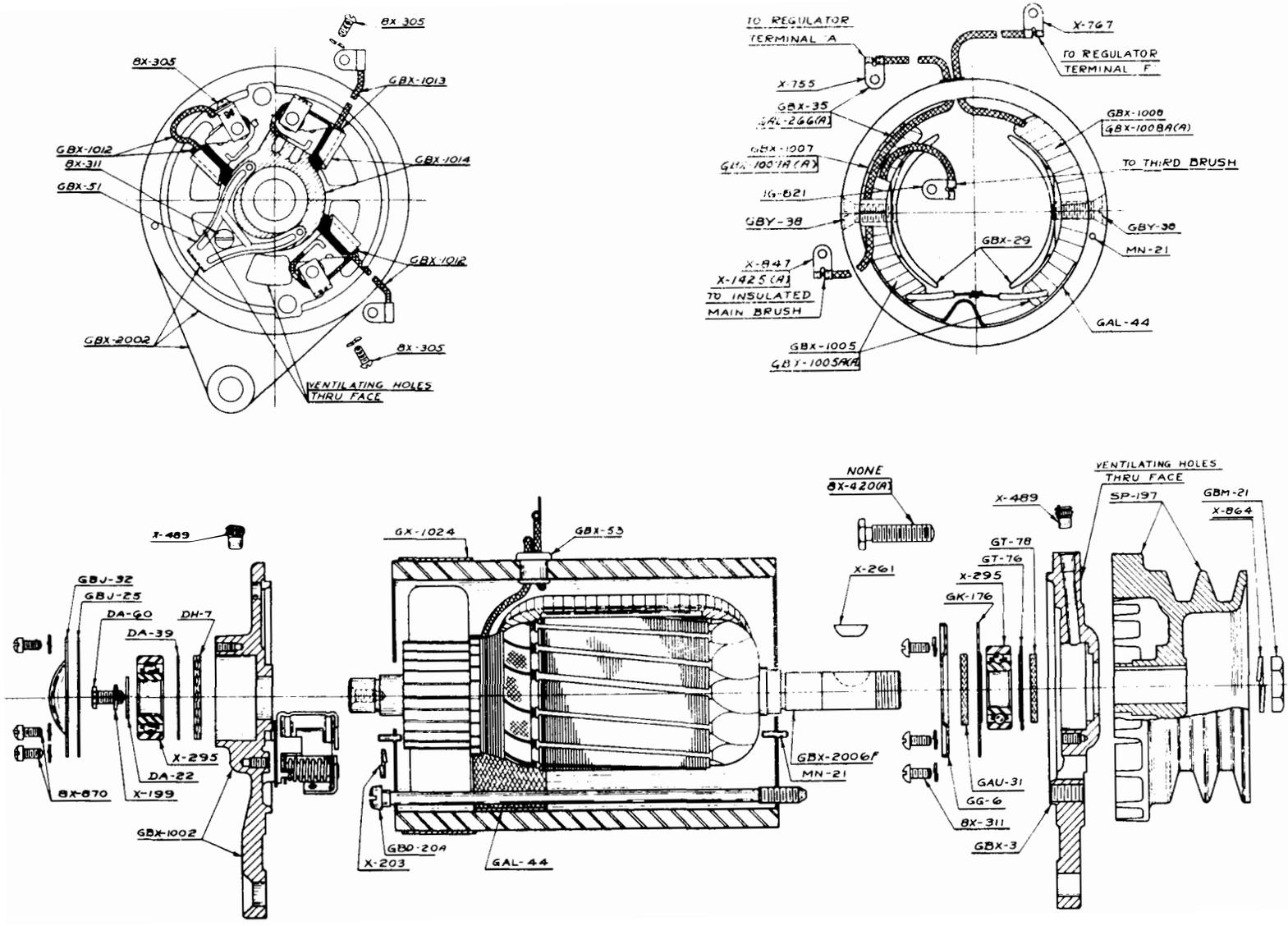
* See table following parts list for part number applying to assembly wanted. † Service Brush Set GBX-2012.

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GBX-4601,A GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBX-4602 GENERATOR PARTS LIST

GBX-4602

<u>Frame & Field Assembly & Parts Used With</u>					<u>Armature Assembly & 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
DK-23A	2	Frame Screw					GBM-21	1	Armature Shaft Nut				
(GBX-2044)	1	Frame & Field Assy.					GBX-2006AF	1	Armature Assembly				
GAL-44	1	Field Connection Ins.					SP-197	1	Drive Pulley				
GBX-29	2	Pole Piece					X-261	1	#6 Woodruff Key				
GBX-53	1	Insulating Bushing					X-864	1	.669 Lock Washer				
GBX-1005A	1	Field Coil Assy. - Comp.					<u>Drive End Head Assembly & Parts Used With</u>						
GBX-1007A	1	Field Coil Assy. - Left					GBX-1003	1	Drive End Head Assy.				
GAL-266	1	C.B. Lead Assy.					GAU-31	1	Felt Washer				
X-755	1	Terminal					GBX-3	1	Drive End Head				
X-1425	1	Terminal					GG-6	1	Bearing Retainer				
IG-821	1	Terminal					GK-176	1	Felt Washer Retainer				
GBX-1008A	1	Field Coil Assy. - Right					GT-76	1	Felt Washer Retainer				
X-767	1	Terminal					GT-78	1	Felt Washer				
GBY-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				
X-203	2	5/16 Lock Washer					8X-311	3	#10-32x3/8 Rd. Hd. Screw				
							X-489	1	1/4 Oiler - Press in Type				
							8X-420	1	5/16-18x1 1/4 Hex. Hd. Screw				
<u>Comm. End Plate Assembly & Parts Used With</u>					<u>Miscellaneous Parts</u>								
DA-22	1	Bearing Retaining Washer					GCE-1024B	1	Head Band Assy.				
DA-39	1	Flat Oil Guard					TC-4306A	1	Two Charge Regulator				
DA-60	1	Bearing Retaining Screw					X-196	4	#10 Lock Washer				
DH-7	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				
(GBX-2002)	1	Comm. End Plate Assy.							1	2	3	4	5
GBX-51	1	3rd Brush Plate Retain'g Spring					(Issued 7-13-37)						
GBX-1002	1	Comm. End Plate Part Assy.											
GBX-1012†	2	Brush - Main											
GBX-1013†	1	Brush - Third											
GBX-1014	1	3rd Brush Plate Assy.											
X-195	1	#8 Lock Washer											
8X-305	1	#8-32x1/4 Rd. Hd. Screw											
8X-311	1	#10-32x3/8 Rd. Hd. Screw											
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							

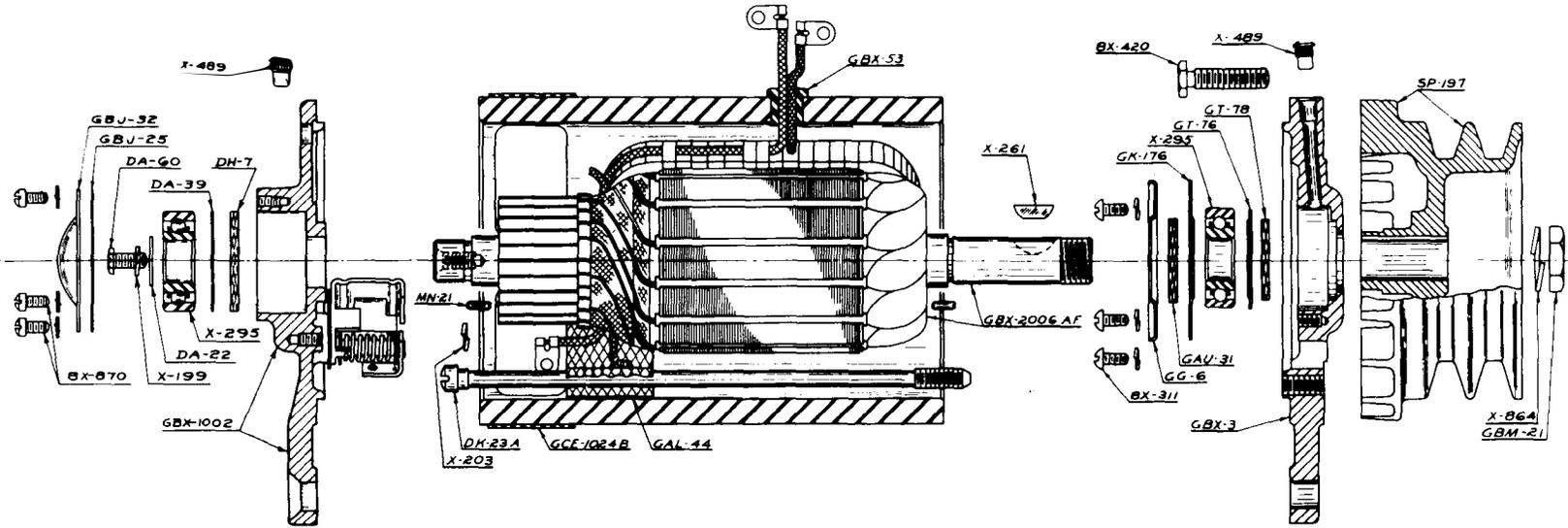
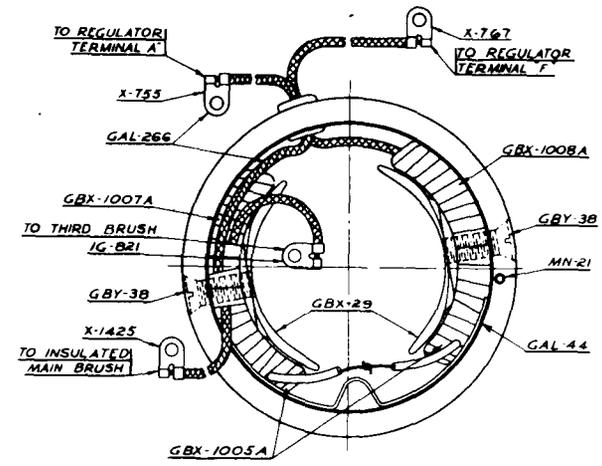
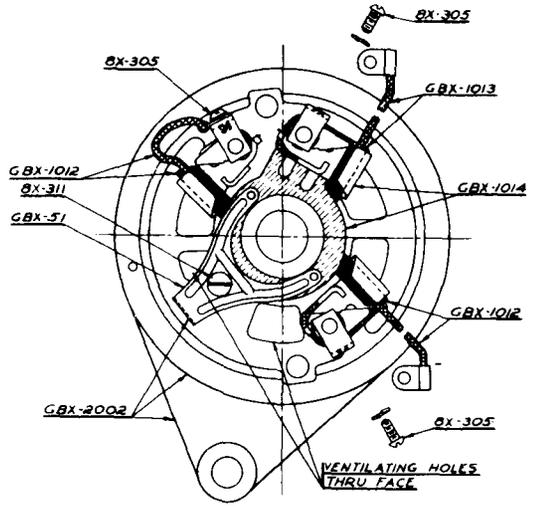
† Service Brush Set GBX-2012.

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GBX-4602 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBY-4601 GENERATOR PARTS LIST

GBY-4601

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GBY-20	2	Frame Screw				
(GBY-2001)	1	Frame & Field Assy.				
GAU-45	1	Field Connection Ins.				
GBY-29	2	Pole Piece				
GBY-38	4	Pole Piece Screw				
GBY-42	1	Insulating Bushing				
GBY-1005	1	Field Coil Assy. - Comp.				
GBY-1007	1	Field Coil Assy. - Left				
GBY-35	1	C.R. Lead Assy.				
IG-821	1	Terminal				
X-847	1	Terminal				
GBY-1008	1	Field Coil - Right				
MN-21	2	Dowel Pin				
X-755	2	Terminal				
8X-159	2	3/8-24 Hex. Nut				
X-201	2	3/8 Lock Washer				
<u>Comm. End Plate Assembly & Parts Used With</u>						
DA-22	1	Bearing Retaining Washer				
DA-60	1	Bearing Retaining Screw				
DB-17	1	Felt Guard				
DD-24C	1	End Cap Cover				
DD-44	1	End Cap Cover Gasket				
GBY-28	1	Felt Washer				
GBY-30	1	Oil Wick				
(GBY-2002)	1	Comm. End Plate Assy.				
GBY-51	1	3rd Brush Plate Retaining Spring				
GBY-1002	1	Comm. End Plate Part Assy.				
GBY-1012†	2	Brush - Main				
GBY-1013†	1	Brush - Third				
GBY-1014	1	3rd Brush Plate Assy.				
X-195	1	#8 Lock Washer				
8X-305	1	#8-32x1/4 Rd. Hd. Sc.				
8X-311	1	#10-32x3/8 Rd. Hd. Sc.				
X-195	2	#8 Lock Washer				
X-199	1	1/4 Lock Washer				
8X-305	2	#8-32x1/4 Rd. Hd. Screw				
X-489	1	1/4 Oiler - Press in Type				
X-544	3	#10 Lock Washer				
X-867	1	Ball Bearing				
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
GBM-21	1	Armature Shaft Nut				
GBY-2006F	1	Armature Assy.				
SP-198	1	Drive Pulley				
X-263	1	#8 Woodruff Key				
X-864	1	.669 Lock Washer				
<u>Drive End Head Assembly & Parts Used With</u>						
CEY-1003	1	Drive End Head Assy.				
GAB-188	2	Felt Washer				
GAR-179	2	Felt Guard				
GBY-3	1	Drive End Head				
GBY-27	2	Bearing Retainer				
8X-173	3	#10-32 Hex. Nut				
X-196	3	#10 Lock Washer				
8X-306	3	#10-32x1 Rd. Hd. Screw				
X-365	1	Ball Bearing - S.A.E. #303				
X-489	1	1/4 Oiler - Press in Type				
<u>Miscellaneous Parts</u>						
GBC-2039B	1	Head Band Assembly				
TC-4312A	1	Two Charge Regulator & Circuit Breaker				
8X-41	1	#10-32x1 1/8 Fill. Hd. Sc.				
X-196	4	#10 Lock Washer				
8X-321	4	#10-32x5/16 Rd. Hd. Screw				
		1	2	3	4	5

(Issued 11-9-37)

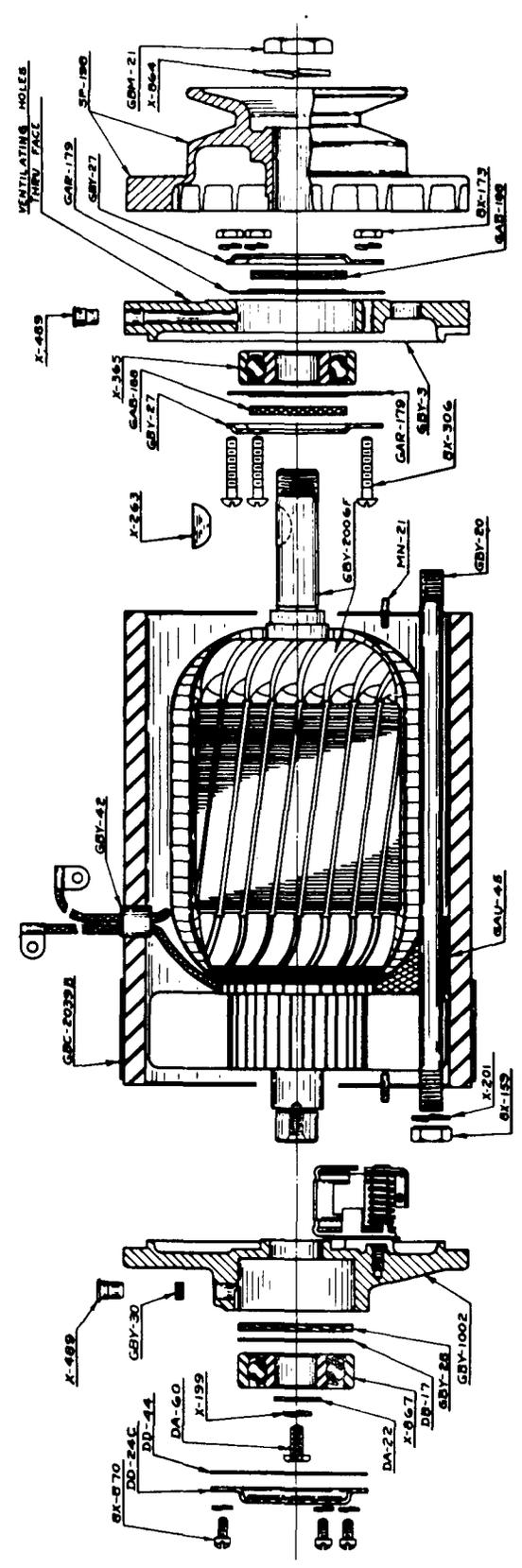
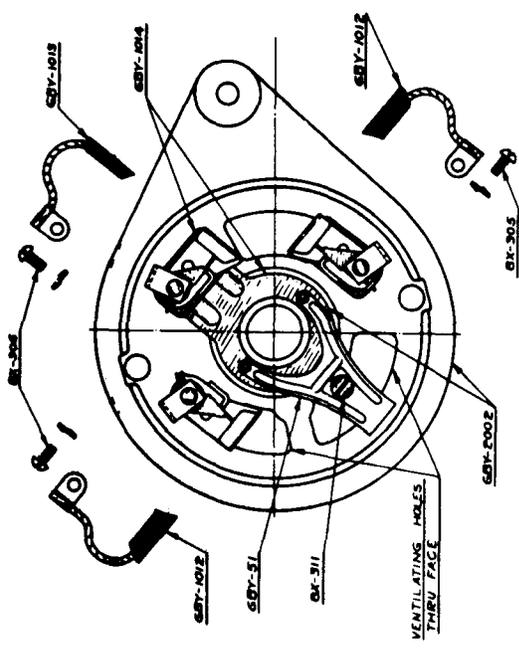
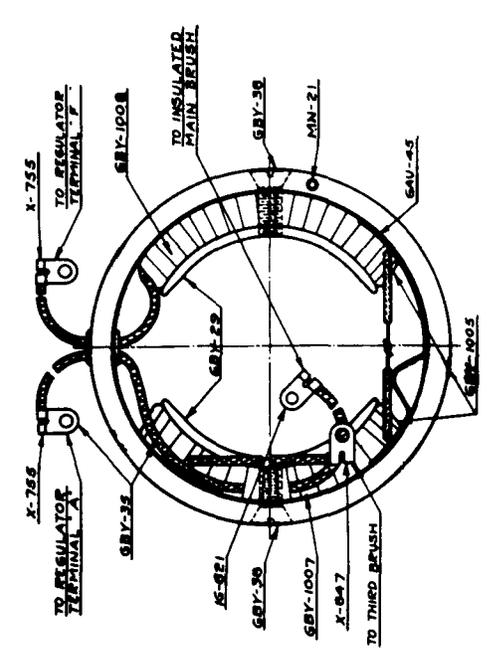
† Service Brush Set GBY-2012S.

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GBY-4601 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GBY-4801 GENERATOR PARTS LIST

GBY-4801

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
GBY-20	2	Frame Screw					GBM-21	1	Armature Shaft Nut				
(GBY-2031)	1	Frame & Field Assembly					GBY-2006F	1	ARMATURE ASSEMBLY				
GAU-45	1	Field Connection Ins.					SP-198	1	Drive Pulley				
GBY-29	2	Pole Piece					X-263	1	#8 Woodruff Key				
GBY-38	4	Pole Piece Screw					X-864	1	.669 Lock Washer				
GBY-42	1	Insulating Bushing					<u>Drive End Head Assembly & Parts Used With</u>						
GBY-1005A	1	FIELD COIL ASSY.-Comp.					GBY-1003	1	Drive End Head Assembly				
GBY-1007A	1	Field Coil Assy.-Left					GAB-188	2	Felt Washer				
GBY-45	1	Control Lead Assy.					GAR-179	2	Felt Guard				
IG-821	1	Terminal					GBY-3	1	Drive End Head				
X-847	1	Terminal					GBY-27	2	Bearing Retainer				
GBY-1008	1	Field Coil - Right					8X-173	3	#10-32 Hex. Nut				
MN-21	2	Dowel Pin					X-196	3	#10 Lock Washer				
X-755	2	Terminal					8X-306	3	#10-32x1 Rd. Hd. Screw				
8X-159	2	3/8-24 Hex. Nut					X-365	1	BALL BRG.- S.A. E. #303				
X-201	2	3/8 Lock Washer					X-489	1	1/4 Oiler - Press in Type				
<u>Comm. End Plate Assembly & Parts Used With</u>						<u>Miscellaneous Parts</u>							
DA-22	1	Bearing Retaining Washer					GBC-2039B	1	Head Band Assembly				
DA-60	1	Bearing Retaining Screw					TC-4312A	1	TWO CHARGE REGULATOR				
DB-17	1	Felt Guard					8X-41	1	#10-32x1 1/8 Fill. Hd. Sc.				
DD-24C	1	End Cap Cover					X-196	4	#10 Lock Washer				
DD-44	1	End Cap Cover Gasket					8X-321	4	#10-32x5/16 Rd. Hd. Screw				
GBY-28	1	Felt Washer							1	2	3	4	5
GBY-30	1	Oil Wick					(Issued 9-30-41)						
(GBY-2032)	1	Comm. End Plate Assembly					‡ SERVICE BRUSH SET GBY-2012S.						
GBY-51	1	3rd Br. Plate Retaining Spring											
GBY-1012‡	2	Brush - Main											
GBY-1013‡	1	Brush - Third											
GBY-1014A	1	3rd Brush Plate Assy.											
GBY-25	1	Brush Spring											
GBY-33	1	Brush Arm											
GBY-1032	1	C. E. Plate Part Assy.											
GBY-25	2	Brush Spring											
GBY-34	2	Brush Arm											
X-195	1	#8 Lock Washer											
8X-305	1	#8-32x1/4 Rd. Hd. Screw											
8X-311	1	#10-32x3/8 Rd. Hd. Sc.											
X-195	2	#8 Lock Washer											
X-199	1	1/4 Lock Washer											
8X-305	2	#8-32x1/4 Rd. Hd. Screw											
X-489	1	1/4 Oiler - Press in Type											
X-544	3	#10 Lock Washer											
X-867	1	BALL BEARING											
8X-870	3	#10-32x5/16 Fill. Hd. Sc.											
		1	2	3	4	5							

UNIT	APPLICATION
GBY-4801	Checker Cab

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