

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAK-4032 STARTING MOTOR PARTS LIST

MAK-4032
(Issued 4-2-53)

Frame & Field Assembly & Parts Used With			Miscellaneous Parts		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MAK-73A	2	Bolt, Thru	GAS-24F	1	Band, Cover
MAK-2102	1	Frame & Field Assy.	MAK-1101	1	Head Assy., Drive End
MAK-12 †	2	Brush	MAK-39	1	BEARING, ABS. BRONZE
MAK-28	1	Stud, Terminal	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MAK-30	1	Insulation, Field Connection	8X-794	1	Nut, Cover Band, Square #10-32
MAK-49	2	Washer, Ins., Term. Stud	† BRUSH SET, SERVICE MAK-2012AS.		
MAK-51	1	Bushing, Ins., Term. Stud			
MAK-3005S	1	FIELD COIL PACKAGE			
MAK-44	2	Connector, Field Coil			
MAK-1007	1	Coil, Field, U. R.			
MAK-1008	1	Coil, Field, L. R.			
MAK-1009	1	Coil, Field, L. L.			
MAK-1010	1	Coil, Field, U. L.			
MZ-38A	4	Screw, Pole Shoe			
SSA-43	2	Washer, Plain, Term. Stud			
8X-146	2	Nut, Term. Stud, Hex. 1/4-20			
12X-199	2	Lockwasher, Term. Stud, 1/4			
8X-173	2	Nut, Thru Bolt, Hex. #10-32			
12X-196	2	Lockwasher, Thru Bolt, #10			
Comm. End Head Assembly & Parts Used With					
MAK-2002A	1	Head Assy., Comm. End			
MAK-19	4	Spring, Brush			
MAK-59	1	Felt			
MAK-1034S†	2	Brush, Grounded			
Armature Assembly & Parts Used With					
MAK-54	1	Washer, Thrust, Arm. Shaft, D. E., 1/32" Thick			
MAK-55	1	Washer, Thrust, C. E., 1/32" Thick			
MAK-2103	1	ARMATURE			
X-260	1	Key, Woodruff, D. E., #5			

UNIT	APPLICATION
MAK-4032	Lausen Marine

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File in
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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAK-4033M STARTING MOTOR PARTS LIST

MAK-4033M
(Issued 2-24-55)

Frame & Field Assembly & Parts Used With			Miscellaneous Parts		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MAK-105	2	Bolt, Thru	EBB-35A	1	BENDIX DRIVE ASSEMBLY
MAK-2084A	1	Frame & Field Assembly	EB-6505A	1	SPRING, DRIVE
MAK-12B†	2	Brush	EB-6823A	2	Washer, Thrust
MAK-28A	1	Stud, Terminal	EB-6824A	1	Support, Drive Spring
MAK-30	1	Insulation, Field Connection	EB-6826A	1	Sleeve, Anti-Drift Spring
MAK-44	2	Connector, Field Coil	EB-6827A	1	Washer, Pinion
MAK-49	2	Washer, Ins., Term.Stud	EB-6828A	1	Nut, Hex., Castellated
MAK-51A	1	Bushing, Ins., Term. Stud	EB-7902A	1	Stop, Drive
MAK-1007B	1	COIL, FIELD, U. R.	EBB-3501A	1	Screw Shaft
MAK-1008A	1	COIL, FIELD, L. R.	EBB-3504SA	1	Pinion
MAK-1009A	1	COIL, FIELD, L. L.	EBB-3513A	1	Spring, Anti-Drift
MAK-1010B	1	COIL, FIELD, U. L.	EBB-3525A	1	Spring, Meshing
MZ-38C	4	Screw, Pole Shoe	19X-404	1	Pin, Cotter
SSA-43A	2	Washer, Plain Term. Stud	GAS-1024L	1	Band, Cover
X-146A	2	Nut, Term. Stud, Hex. 1/4-20	MAK-1047	1	Head Assy., Drive End
12X-199	2	Lockwasher, Term. Stud, 1/4	MAK-39	1	BEARING, ABS. BRONZE
X-163	2	Nut, Thru Bolt, Hex. 1/4-20	X-2882	1	Screw, Cover Band, Fill. Hd. #10-32x1 1/2
12X-199	2	Lockwasher, Thru Bolt, 1/4	X-2875	1	Nut, Cover Band, Square #10-32
Comm. End Head Assembly & Parts Used With					
MAK-3002D	1	Head Assy., Comm. End	† BRUSH SET, SERVICE MAK-2012CS.		
MAK-19B	4	Spring, Brush			
MAK-59	1	Felt			
MAK-1034BS†	2	Brush, Grounded			
Armature Assembly & Parts Used With					
MAK-54	1	Washer, Thrust, Intermediate			
MAK-55	1	Washer, Thrust, C. E.			
MAK-2104	1	ARMATURE			

UNIT	APPLICATION
MAK-4033M	Evinrude (Marine), Johnson (Marine)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAK-4034 STARTING MOTOR PARTS LIST

MAK-4034
(Issued 4-19-55)

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
MAK-73A	2	Bolt, Thru	MAK-54	1	Washer, Thrust, D. E. , 1/32" Thick
MAK-2001A	1	Frame & Field Assembly	MAK-55	1	Washer, Thrust, C. E. , 1/32" Thick
MAK-12†	2	Brush	MAK-2074	1	ARMATURE
MAK-28	1	Stud, Terminal	X-260	1	Key, Woodruff, D. E. , #5
MAK-30	1	Insulation, Field Connection	<u>Miscellaneous Parts</u>		
MAK-49	2	Washer, Ins. , Term. Stud	EBA-14	1	BENDIX DRIVE ASSEMBLY
MAK-51	1	Bushing, Ins. , Term. Stud	EB-108	2	Lockwasher
MAK-3005S	1	FIELD COIL PACKAGE	EB-7819S	1	Sleeve, Compression
MAK-44	2	Connector, Field Coil	X-8503	1	Head, Drive
MAK-1007	1	Coil, Field, U. R.	EB-8506	1	Screw, Spring, Head
MAK-1008	1	Coil, Field, L. R.	EB-8507	1	Screw, Spring, Shaft
MAK-1009	1	Coil, Field, L. L.	EB-8734	1	Ring, Take-Up
MAK-1010	1	Coil, Field, U. L.	EBA-211	1	Shaft & Pinion
MZ-38A	4	Screw, Pole Shoe	EBA-1405	1	SPRING, DRIVE
SSA-43	2	Washer, Plain, Term. Stud	GAS-24F	1	Band, Cover
8X-146	2	Nut, Term. Stud, Hex. 1/4-20	MAK-1048D	1	Head Assy. , Drive End
12X-199	2	Lockwasher, Term. Stud, 1/4	MAK-39	1	BEARING, ABS. BRONZE
8X-173	2	Nut, Thru Bolt, Hex. #10-32	X-386	1	Oiler
12X-196	2	Lockwasher, Thru Bolt, #10	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
<u>Comm. End Head Assembly & Parts Used With</u>			8X-794	1	Nut, Cover Band, Square #10-32
MAK-3002	1	Head Assy. , Comm. End			
MAK-19	4	Spring, Brush			
MAK-59	1	Felt			
MAK-1034S†	2	Brush, Grounded			

† BRUSH SET, SERVICE MAK-2012AS.

UNIT	APPLICATION
MAK-4034	Kohler Engine

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAK-4035 STARTING MOTOR PARTS LIST

MAK-4035
(Issued 10-3-55)

<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
MAK-20	2	Bolt, Thru	MAK-54	1	Washer, Thrust, D. E. , 1/32" Thick
MAK-2001A	1	Frame & Field Assy.	MAK-55	1	Washer, Thrust, C. E. , 1/32" Thick
MAK-12 †	2	Brush	MAK-2107	1	ARMATURE
MAK-28	1	Stud, Terminal			<u>Miscellaneous Parts</u>
MAK-30	1	Insulation, Field Connection	GAS-24F	1	Band, Cover
MAK-49	2	Washer, Ins. , Term. Stud	MAK-1048	1	Head Assy. , Drive End
MAK-51	1	Bushing, Ins. , Term. Stud	MAK-39	1	BEARING, ABSORBENT BRONZE
MAK-3005S	1	FIELD COIL PACKAGE	X-386	1	Oiler
MAK-44	2	Connector, Field Coil	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MAK-1007	1	Coil, Field, U. R.	8X-794	1	Nut, Cover Band, Square #10-32
MAK-1008	1	Coil, Field, L. R.			
MAK-1009	1	Coil, Field, L. L.			
MAK-1010	1	Coil, Field, U. L.			
MZ-38A	4	Screw, Pole Shoe			
SSA-43	2	Washer, Plain, Term. Stud			
8X-146	2	Nut, Term. Stud, Hex. 1/4-20			
12X-199	2	Lockwasher, Term. Stud, 1/4			
8X-173	2	Nut, Thru Bolt, Hex. #10-32			
12X-196	2	Lockwasher, Thru Bolt, #10			
					† BRUSH SET, SERVICE MAK-2012AS.
<u>Comm. End Head Assembly & Parts Used With</u>					
MAK-2002A	1	Head Assy. , Comm. End			
MAK-19	4	Spring, Brush			
MAK-59	1	Felt			
MAK-1034S †	2	Brush, Grounded			

UNIT	APPLICATION
MAK-4035	Chief Industries

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAO-4003B STARTING MOTOR PARTS LIST

MAO-4003B

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAO-20A	2	Frame Screw				
(MAO-2001A)	1	Frame & Field Assembly				
MAO-28A	1	Terminal Post				
MAO-29	4	Pole Piece				
MAO-1007	1	Field Coil - U.L.				
MAO-1008	1	Field Coil - L.R.				
MAO-1009	1	Field Coil - L.L.				
MAO-1010	1	Field Coil - U.R.				
MN-21	2	Dowel Pin				
SA-22	1	Ins. Washer				
SA-23	1	Ins. Washer				
SA-24	1	Ins. Bushing				
SA-34B	2	3/8-16 Hex. Nut				
SA-48B	1	3/8 Washer				
SB-8B	8	Pole Piece Screw				
SC-9	1	Field to Br. Connector - Short				
SC-26	2	Field Coil Connector				
SC-40	1	Field to Br. Connector				
SC-112	2	Field Connector Ins.				
SC-113	1	Field Connector Ins.				
X-201	2	3/8 Lock Washer				
8X-159	2	3/8-24 Hex. Nut				
X-201	2	3/8 Lock Washer				

Comm. End Head Assembly & Parts Used With

(MAO-2002A)	1	Comm. End Head Assembly				
MAO-12	4	Brush				
SA-38B	2	Brush Holder Plate Screw				
SB-19	1	Flat Oil Guard				
SB-32B	1	Bearing Cover				
SC-1011	1	Brush Holder Plate Assy.				
DA-36	4	Brush Holder				
DA-48	4	Brush Spring				
SA-12	2	Brush Holder Ins.				
2X-56	8	#8-32x7/16 Rd. Hd. Sc.				
X-195	8	#8 Lock Washer				
2X-350	4	#8 Plain Washer				
SC-1028	1	Comm. End Head Part Assy.				
SB-27	1	Bronze Bearing				
X-196	4	#10 Lock Washer				
8X-311	2	#10-32x3/8 Rd. Hd. Screw				
X-489	1	1/4 Oiler - Press in Type				
SA-30B	1	Wick Retaining Screw - 5/16-18x9/32				
SA-1029	1	Wick & Spring				
X-196	2	#10 Lock Washer				
8X-311	2	#10-32x3/8 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
MAO-45	1	Thrust Washer				
MAO-49	1	Spring Retainer				
MAO-50	1	Spring Retainer				
MAO-51	1	Brake Washer				
MAO-52	1	Brake Spring				
MAO-2006	1	Armature Assembly				
SB-18A	1	Thrust Washer				
X-261	1	#6 Woodruff Key				

Switch Assembly & Parts Used With

SS-104L	1	Connector				
SS-4004	1	Solenoid Starting Switch				
X-196	1	#10 Lock Washer				
8X-832	2	5/16-24 Hex. Nut				
X-1014	2	5/16 Lock Washer				
8X-1372	1	#10-32 Hex. Nut				
X-196	1	#10 Lock Washer				
X-199	2	1/4 Lock Washer				
8X-836	2	5/16-24 Hex. Nut				
8X-909	2	1/4-28x7/16 Fill. Hd. Screw				
X-1014	2	5/16 Lock Washer				
8X-1372	1	#10-32 Hex. Nut				

Miscellaneous Parts

EB-88	1	Bendix Drive Assembly				
GBC-2024A	1	Head Band Assembly				
ML-2027B	1	Intermediate Brg. Assy.				
ML-21A	1	Absorbent Bronze Brg.				
PS-1068A	1	Pinion Housing Assembly				
MAB-88	1	Dowel Pin				
MP-41A	1	Absorbent Bronze Brg.				
SA-31	1	Felt Wick				
8X-120	1	#10-32x5/8 Fill. Hd. Screw				
X-489	1	1/4 Oiler - Press in Type				
		1	2	3	4	5

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

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAO-4003B STARTING MOTOR PARTS LIST

MAO-4003B

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAO-20A	2	Frame Screw				
(MAO-2001A)	1	Frame & Field Assembly				
MAO-28A	1	Terminal Post				
MAO-29	4	Pole Piece				
MAO-1007	1	Field Coil - U.L.				
MAO-1008	1	Field Coil - L.R.				
MAO-1009	1	Field Coil - L.L.				
MAO-1010	1	Field Coil - U.R.				
MN-21	2	Dowel Pin				
SA-22	1	Ins. Washer				
SA-23	1	Ins. Washer				
SA-24	1	Ins. Bushing				
SA-34B	2	3/8-16 Hex. Nut				
SA-48B	1	3/8 Washer				
SB-8B	8	Pole Piece Screw				
SC-9	1	Field to Br. Connector - Short				
SC-26	2	Field Coil Connector				
SC-40	1	Field to Br. Connector				
SC-112	2	Field Connector Ins.				
SC-113	1	Field Connector Ins.				
X-201	2	3/8 Lock Washer				
8X-159	2	3/8-24 Hex. Nut				
X-201	2	3/8 Lock Washer				
<u>Comm. End Head Assembly & Parts Used With</u>						
(MAO-2002A)	1	Comm. End Head Assembly				
MAO-12	4	Brush				
SA-38B	2	Brush Holder Plate Screw				
SB-19	1	Flat Oil Guard				
SB-32B	1	Bearing Cover				
SC-1011	1	Brush Holder Plate Assy.				
DA-36	4	Brush Holder				
DA-48	4	Brush Spring				
SA-12	2	Brush Holder Ins.				
2X-56	8	#8-32x7/16 Rd. Hd. Sc.				
X-195	8	#8 Lock Washer				
2X-350	4	#8 Plain Washer				
SC-1028	1	Comm. End Head Part Assy.				
SB-27	1	Bronze Bearing				
X-196	4	#10 Lock Washer				
8X-311	2	#10-32x3/8 Rd. Hd. Screw				
X-489	1	1/4 Oiler - Press in Type				
SA-30B	1	Wick Retaining Screw - 5/16-18x9/32				
SA-1029	1	Wick & Spring				
X-196	2	#10 Lock Washer				
8X-311	2	#10-32x3/8 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
MAO-45	1	Thrust Washer				
MAO-49	1	Spring Retainer				
MAO-50	1	Spring Retainer				
MAO-51	1	Brake Washer				
MAO-52	1	Brake Spring				
MAO-2006	1	Armature Assembly				
SB-18A	1	Thrust Washer				
X-261	1	#6 Woodruff Key				
<u>Switch Assembly & Parts Used With</u>						
SS-104L	1	Connector				
SS-4004	1	Solenoid Starting Switch				
X-196	1	#10 Lock Washer				
8X-832	2	5/16-24 Hex. Nut				
X-1014	2	5/16 Lock Washer				
8X-1372	1	#10-32 Hex. Nut				
X-196	1	#10 Lock Washer				
X-199	2	1/4 Lock Washer				
8X-836	2	5/16-24 Hex. Nut				
8X-909	2	1/4-28x7/16 Fill. Hd. Screw				
X-1014	2	5/16 Lock Washer				
8X-1372	1	#10-32 Hex. Nut				
<u>Miscellaneous Parts</u>						
EB-88	1	Bendix Drive Assembly				
GBC-2024A	1	Head Band Assembly				
ML-2027B	1	Intermediate Brg. Assy.				
ML-21A	1	Absorbent Bronze Brg.				
PS-1068A	1	Pinion Housing Assembly				
MAB-88	1	Dowel Pin				
MP-41A	1	Absorbent Bronze Brg.				
SA-31	1	Felt Wick				
8X-120	1	#10-32x5/8 Fill. Hd. Screw				
X-489	1	1/4 Oiler - Press in Type				
		1	2	3	4	5

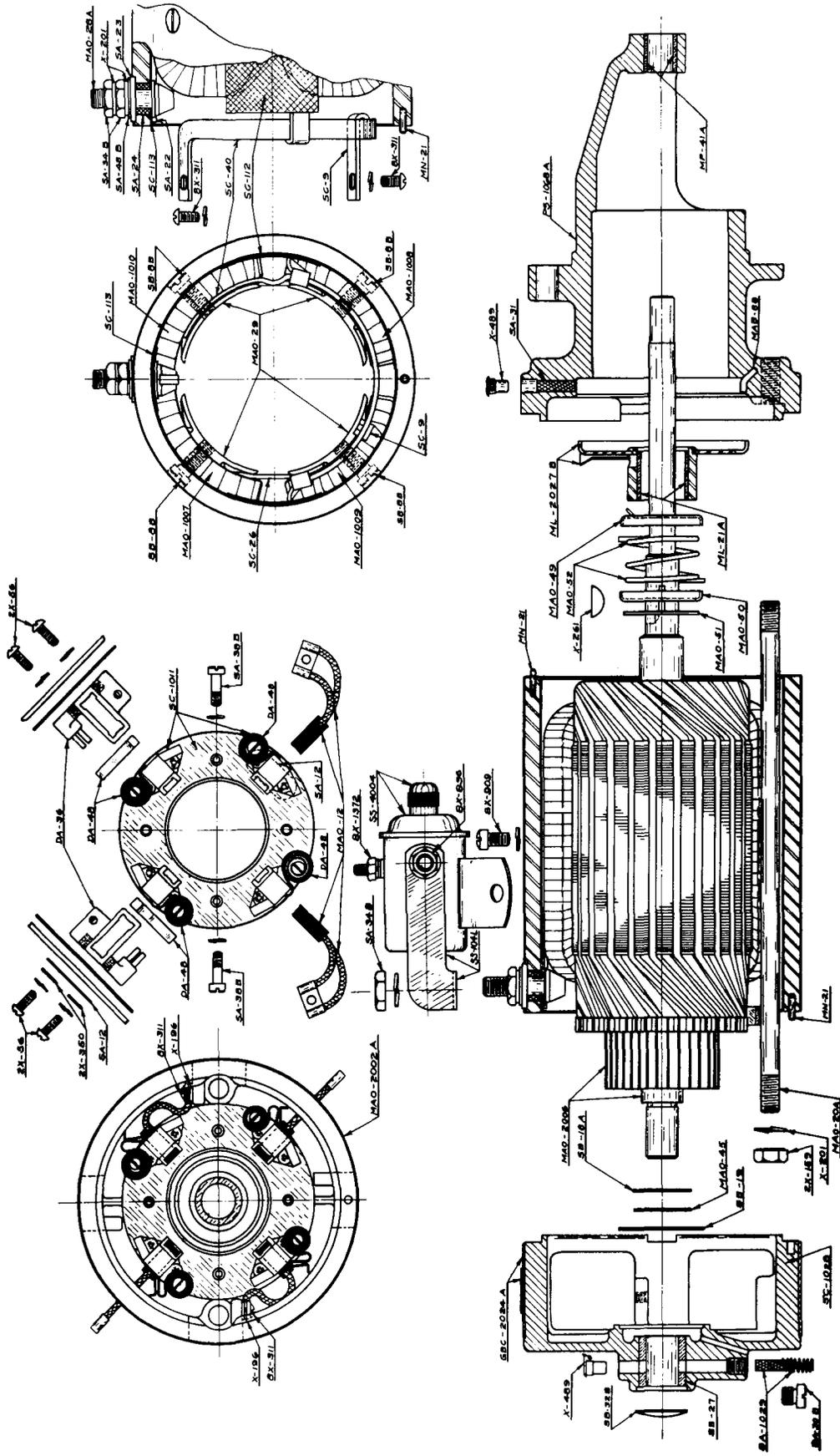
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(R-12-10-36)

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MAO-4003B STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAO-4009 STARTING MOTOR PARTS LIST

MAO-4009

Frame & Field Assy. With Terminal Post & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAO-59	2	Frame Screw					
(MAO-2001A)	1	Frame & Field Assembly					
MAO-28A	1	Terminal Post					
MAO-29	4	Pole Piece					
MAO-1007	1	Field Coil - U.L.					
MAO-1008	1	Field Coil - L.R.					
MAO-1009	1	Field Coil - L.L.					
MAO-1010	1	Field Coil - U.R.					
MN-21	2	Dowel Pin					
SA-22	1	Insulating Washer					
SA-23	1	Insulating Washer					
SA-24	1	Insulating Bushing					
SA-34B	2	3/8-16 Hex. Nut					
SA-48B	1	3/8 Washer					
SB-8B	8	Pole Piece Screw					
SC-9	1	Field Br. Connector					
SC-26	2	Field Coil Connector					
SC-40	1	Field To Brush Connector					
SC-112	2	Field Connector Ins.					
SC-113	1	Field Connector Ins.					
X-201	2	3/8 Lock Washer					
8X-159	2	3/8-24 Hex. Nut					
X-201	2	3/8 Lock Washer					

Comm. End Head Assy. & Parts Used With

(MAO-2002A)	1	Comm. End Head Assembly					
MAO-12	4	BRUSH					
SA-38B	2	Br. Holder Plate Screw					
SB-19	1	Flat Oil Guard					
SB-32B	1	Bearing Cover					
SC-1011	1	Brush Holder Plate Assy.					
DA-36	4	Brush Holder					
DA-48	4	Brush Spring					
SA-12	2	Brush Holder Ins.					
2X-56	8	#8-32x7/16 Rd. Hd. Sc.					
X-195	8	#8 Lock Washer					
2X-350	4	#8 Plain Washer					
SC-1028	1	C. E. Head Part Assembly					
SB-27	1	Bronze Bearing					
X-196	4	#10 Lock Washer					
8X-311	2	#10-32x3/8 Rd. Hd. Screw					
SA-30B	1	Wick Retaining Screw					
SA-1029	1	Wick & Spring					
X-196	2	#10 Lock Washer					
8X-311	2	#10-32x3/8 Rd. Hd. Screw					
X-489	1	1/4 Oiler - Press in Type					
			1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAO-45	1	Thrust Washer					
MAO-2057	1	ARMATURE ASSEMBLY					
MG-61	1	7/8 Plain Washer					
SB-18A	1	Thrust Washer					
<u>Miscellaneous Parts</u>							
GBC-2024A	1	Head Band Assembly					
MAO-1058	1	Drive End Head Assembly					
ML-21A	1	ABSORBENT BRONZE BRG.					
X-489	1	1/4 Oiler - Press in Type					
SA-31	1	Felt Wick					
8X-120	1	#10-32x5/8 Fill. Hd. Screw					
			1	2	3	4	5

(Issued 5-2-40)

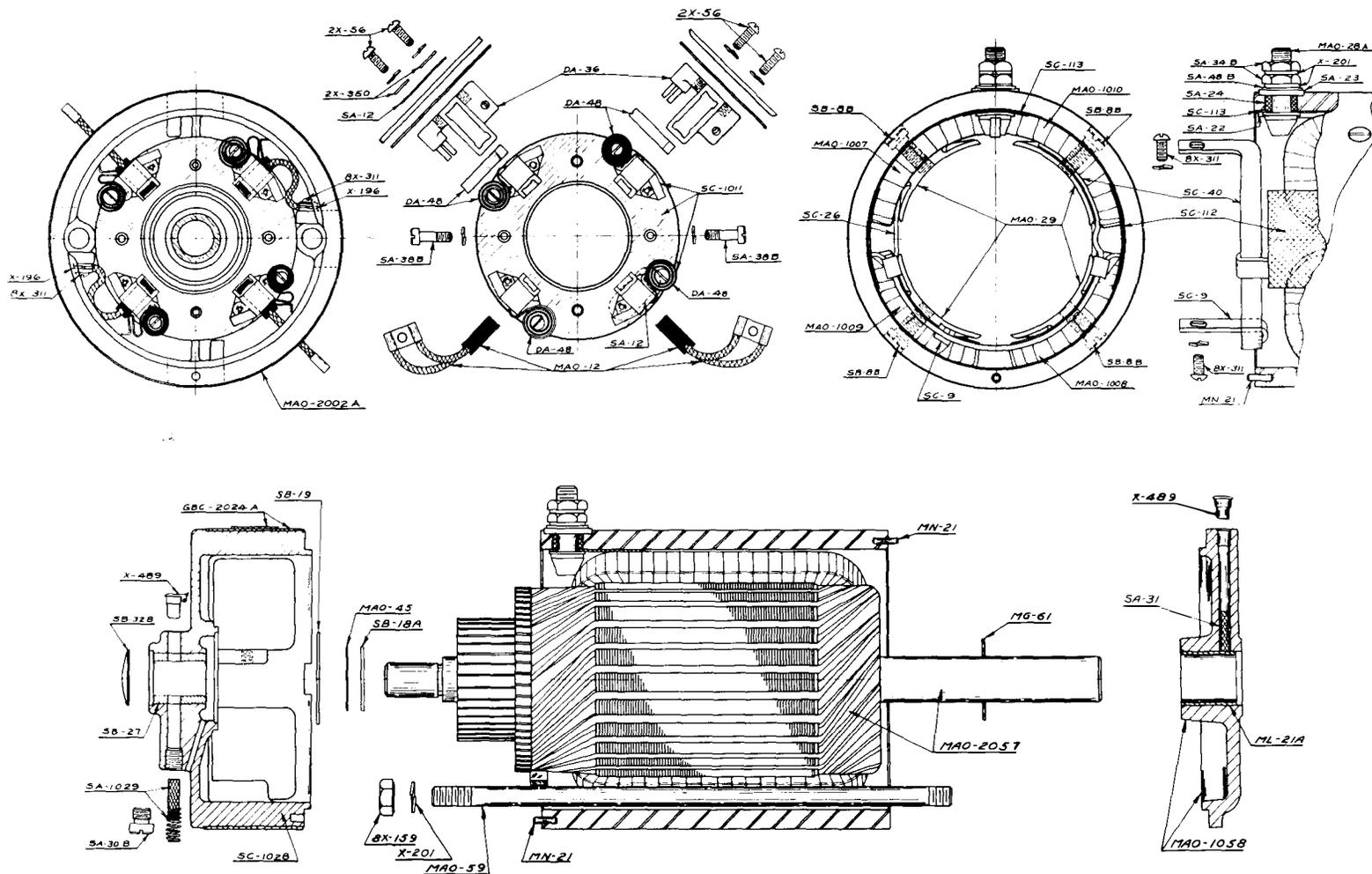
UNIT	APPLICATION
MAO-4009	Jos. Weidenhoff

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MAO-4009 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAS-4001 STARTING MOTOR PARTS LIST

MAS-4001

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
(MAS-3025)	1	Frame & Field Assy.				
GK-38	4	Pole Piece Screw				
MAS-22	1	Field Connection Ins.				
MAS-23	1	Field Coil Connector				
MAS-25	1	Field Coil Connector				
MAS-1008	1	Field Coil - L.R.				
MAS-1009	1	Field Coil - L.L.				
MAS-1021	1	Terminal Post Assy.				
MAS-21	1	Term. Post Connector				
MG-22	1	Plain Steel Washer				
MG-27	1	Terminal Post				
MG-68	2	Ins. Washer				
MG-69	1	Term. Post Cover Ins.				
MG-70	1	Term. Post Frame Ins.				
5X-179	2	3/8-16 Hex. Nut				
X-201	2	3/8 Lock Washer				
MAS-2010A	1	Field Coil Assy. - U.R.				
MAS-26	1	Field Coil Lead Assy.				
X-983	2	Terminal				
MH-29	4	Pole Piece				
ML-1007	1	Field Coil - U.L.				
MN-21	1	Dowel Pin				
MH-20	2	Frame Screw				
X-1014	2	5/16 Lock Washer				

Comm. End Head Assembly & Parts Used With

MG-1084S	1	Bearing Cover with Oiler				
(ML-3090)	1	Comm. End Head Assy.				
GK-162	2	Br. Holder Spacing Ins.				
GT-17	4	Brush Holder				
GT-32	2	Spring Insulator				
GT-35	2	Ins. Bushing				
GT-37	2	Ins. Washer				
GT-41	2	Br. Holder Post Clip				
MG-73	4	Brush Spring				
MH-53	2	Ground Connector				
MH-54	4	Brush				
ML-1090S	1	C.E. Head Part Assy.				
ML-1040S	1	C.E. Cap & Brg. Assy.				
MR-3	1	Absorbent Bronze				
		Bearing				
6X-1452	4	3/16x5/16 Oval Hd. Rivet				
6X-122	4	#8-32x1/2 Fill. Hd. Screw				
X-195	4	#8 Lock Washer				
X-196	2	#10 Lock Washer				
6X-311	2	#10-32x3/8 Rd. Hd. Screw				
6X-794	2	#10-32 Square Nut				
		1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAS-2006	1	Armature Assembly				
MG-61	2	7/8 Plain Washer				
X-261	1	#6 Woodruff Key				
<u>Miscellaneous Parts</u>						
EBA-8	1	Bendix Drive Assy.				
GX-1024	1	Head Band Assembly				
ML-95	1	Lock Spring Ring				
ML-1094	1	Intermediate Plate Assy.				
ML-21A	1	Absorbent Bronze Brg.				
PS-1085	1	Pinion Housing Assy.				
MG-77A	1	Absorbent Bronze Brg.				
MN-21	1	Dowel Pin				
X-489	1	1/4 Oiler - Press in Type				
6X-716	1	#8-32x1 1/8 Rd. Hd. Screw				
6X-1410	1	#8-32 Square Nut				
		1	2	3	4	5

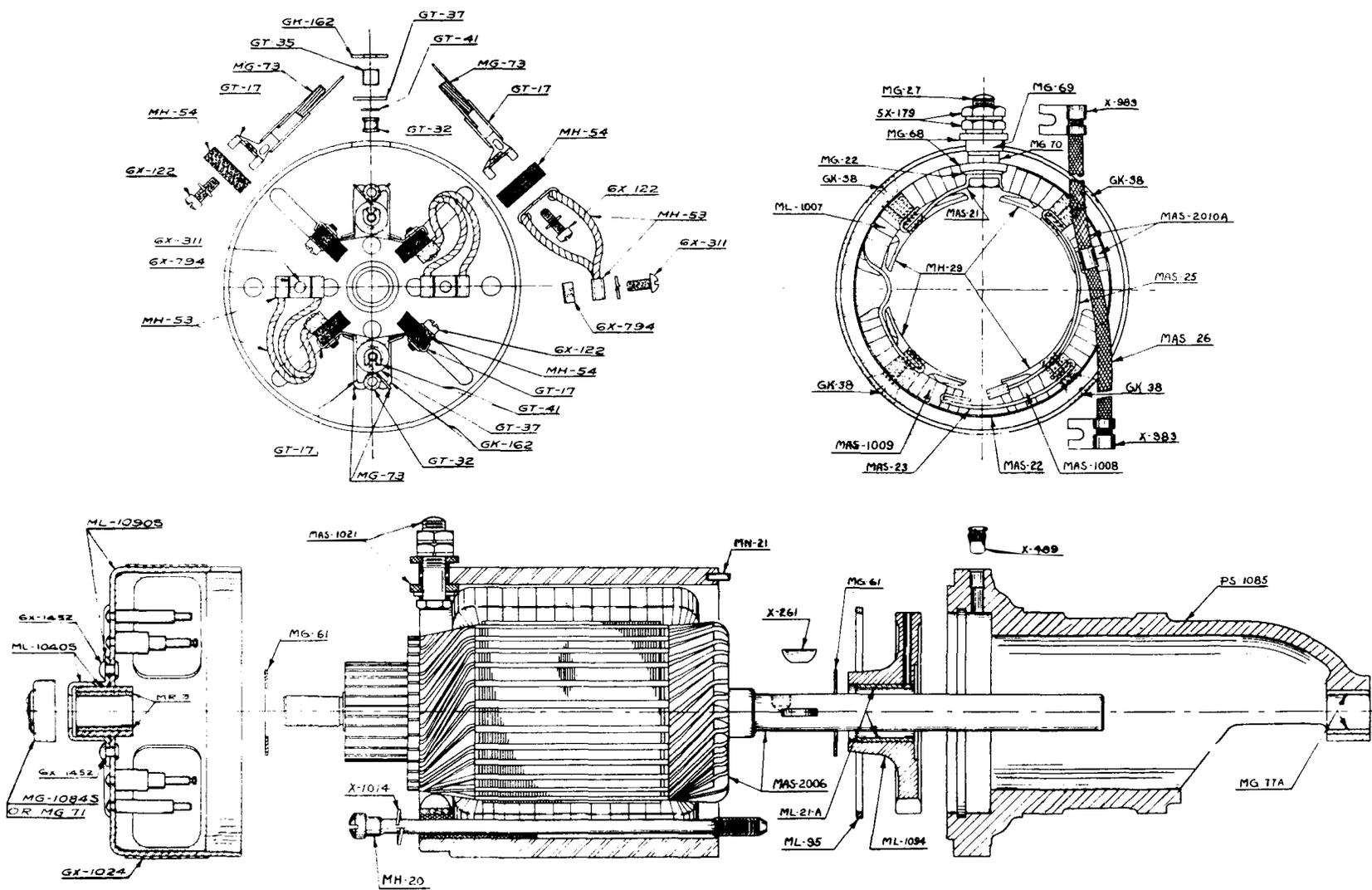
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MAS-4001 STARTING MOTOR PARTS LIST



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAS-4002 STARTING MOTOR PARTS LIST

MAS-4002

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
(MAS-2025)	1	Frame & Field Assy.					
CK-38	4	Pole Piece Screw					
MAS-22	1	Field Connection Ins.					
MAS-23	1	Field Coil Connector					
MAS-25	1	Field Coil Connector					
MAS-1008	1	Field Coil - L.R.					
MAS-1009	1	Field Coil - L.L.					
MAS-1010A	1	Field Coil Assy. - U.R.					
MAS-26	1	Field Coil Lead Assy.					
X-983	2	Terminal					
MAS-1021	1	Terminal Post Assy.					
MAS-21	1	Term. Post Connector					
MG-22	1	Plain Steel Washer					
MG-27	1	Terminal Post					
MG-68	2	Ins. Washer					
MG-69	1	Term. Post Cover Ins.					
MG-70	1	Term. Post Frame Ins.					
5X-179	2	3/8-16 Hex. Nut					
X-201	2	3/8 Lock Washer					
MH-29	4	Pole Piece					
ML-1007	1	Field Coil - U.L.					
MN-21	1	Dowel Pin					
MH-20	2	Frame Screw					
X-1014	2	5/16 Lock Washer					

Comm. End Head Assembly & Parts Used With

MG-1084S	1	Bearing Cover with Oiler					
(ML-2090)	1	Comm. End Head Assy.					
GK-162	2	Br. Holder Spacing Ins.					
GT-14	4	Brush Holder					
GT-32	2	Spring Insulator					
GT-35	2	Insulating Bushing					
GT-37	2	Insulating Washer					
GT-41	2	Br. Holder Post Clip					
MG-74	4	Brush Spring					
MH-53	2	Ground Connector					
MH-54	4	Brush					
ML-1090S	1	C.E. Head Part Assy.					
ML-1040S	1	C.E. Cap & Brg. Assy.					
MR-3	1	Absorbent Bronze Brg					
8X-1452	4	3/16x5/16 Oval Head Rivet					
8X-122	4	#8-32x1/2 Fill. Hd. Sc.					
X-195	4	#8 Lock Washer					
X-196	2	#10 Lock Washer					
8X-311	2	#10-32x3/8 Rd. Hd. Screw					
8X-794	2	#10-32 Square Nut					
			1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAS-2006	1	Armature Assembly					
MG-61	2	7/8 Plain Washer					
X-261	1	#6 Woodruff Key					
<u>Miscellaneous Parts</u>							
EBA-9	1	Bendix Drive Assembly					
GX-1024	1	Head Band Assy.					
ML-95	1	Lock Spring Ring					
ML-1094	1	Intermediate Plate Assy.					
ML-21A	1	Absorbent Bronze Brg.					
PS-1085	1	Pinion Housing Assy.					
MG-77A	1	Absorbent Bronze Brg.					
MN-21	1	Dowel Pin					
X-489	1	1/4 Oiler - Press in Type					
8X-716	1	#8-32x1 1/8 Rd. Hd. Screw					
8X-1410	1	#8-32 Square Nut					
			1	2	3	4	5

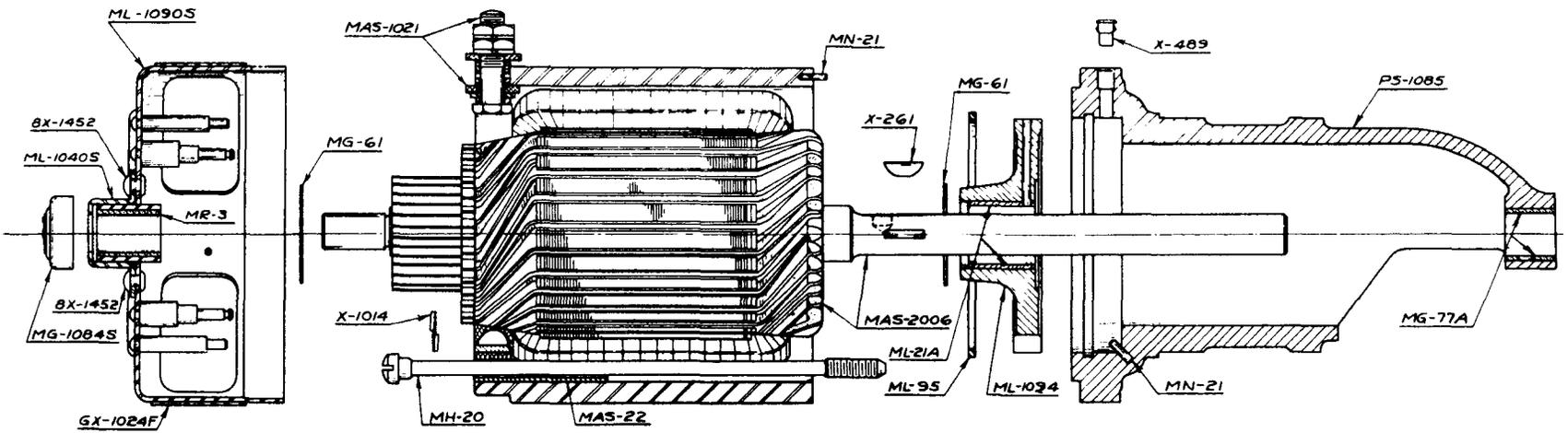
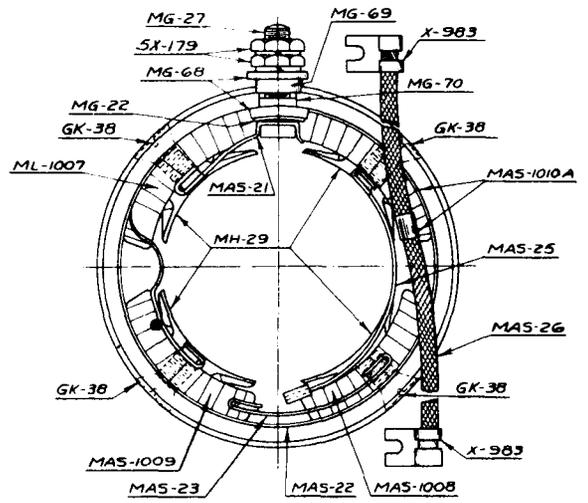
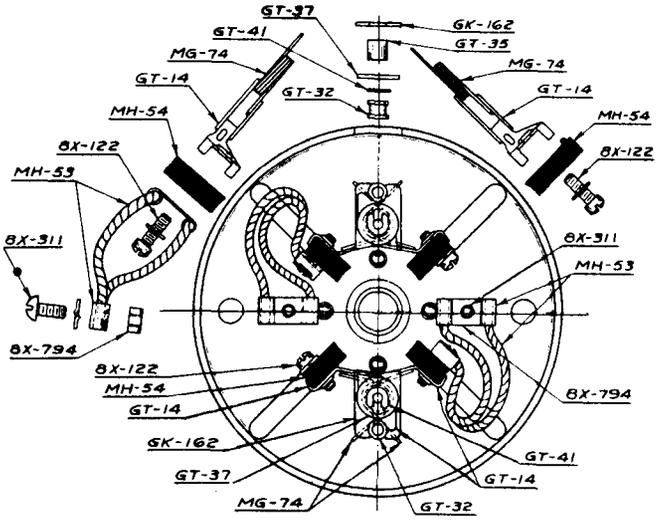
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MAS-4002 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAS-4003 STARTING MOTOR PARTS LIST

MAS-4003

Frame & Field Assembly with Terminal Post & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
(MAS-3025)	1	Frame & Field Assy.					
GK-38	4	Pole Piece Screw					
MAS-22	1	Field Connection Ins.					
MAS-23	1	Field Coil Connector					
MAS-25	1	Field Coil Connector					
MAS-1008	1	Field Coil - L.R.					
MAS-1009	1	Field Coil - L.L.					
MAS-1021	1	Terminal Post Assy.					
MAS-21	1	Term. Post Connector					
MG-22	1	Plain Steel Washer					
MG-27	1	Terminal Post					
MG-68	2	Ins. Washer					
MG-69	1	Term. Post Cover Ins.					
MG-70	1	Term. Post Frame Ins.					
5X-179	2	3/8-16 Hex. Nut					
X-201	2	3/8 Lock Washer					
MAS-2010A	1	Field Coil Assy. - U.R.					
MAS-26	1	Field Coil Lead Assy.					
X-983	2	Terminal					
MH-29	4	Pole Piece					
ML-1007	1	Field Coil - U.L.					
MN-21	1	Dowel Pin					
MH-20	2	Frame Screw					
X-1014	2	5/16 Lock Washer					

Comm. End Head Assembly & Parts Used With

MG-1084S	1	Bearing Cover with Oiler					
(ML-3090)	1	Comm. End Head Assy.					
GK-162	2	Br. Holder Spacing Ins.					
GT-17	4	Brush Holder					
GT-32	2	Spring Insulator					
GT-35	2	Ins. Bushing					
GT-37	2	Ins. Washer					
GT-41	2	Br. Holder Post Clip					
MG-73	4	Brush Spring					
MH-53	2	Ground Connector					
MH-54	4	Brush					
ML-1090S	1	C.E. Head Part Assy.					
ML-1040S	1	C.E. Cap & Brg. Assy.					
MR-3	1	Absorbent Bronze Bearing					
8X-1452	4	3/16x5/16 Oval Hd. Rivet					
8X-122	4	#8-32x1/2 Fill. Hd. Screw					
X-195	4	#8 Lock Washer					
X-196	2	#10 Lock Washer					
8X-311	2	#10-32x3/8 Rd. Hd. Screw					
8X-794	2	#10-32 Square Nut					
			1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
GK-174A	1	1/2 Plain Washer					
MAS-2035	1	Armature Assembly					
MG-61	1	7/8 Plain Washer					
X-261	1	#6 Woodruff Key					
Miscellaneous Parts							
EBA-2	1	Bendix Drive Assy.					
GX-1024	1	Head Band Assy.					
ML-2027A	1	Intermediate Brg. Assy.					
ML-21A	1	Absorbent Bronze Brg.					
PS-1060	1	Pinion Housing Assy.					
MAB-88	1	Dowel Pin					
MG-77A	1	Absorbent Bronze Brg.					
8X-716	1	#8-32x1 1/8 Rd. Hd. Screw					
8X-1410	1	#8-32 Square Nut					
			1	2	3	4	5

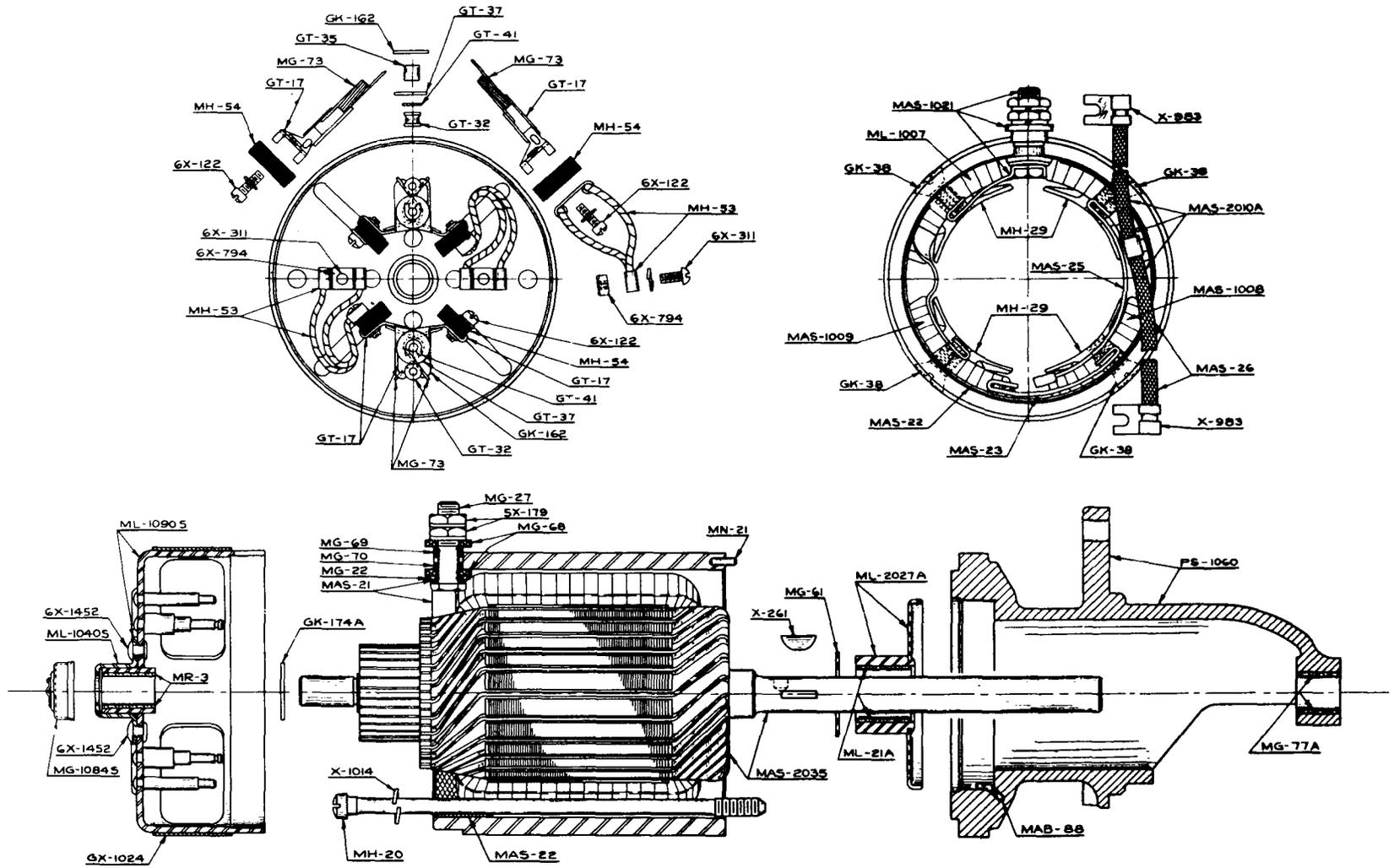
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MAS-4003 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAS- 4004 STARTING MOTOR PARTS LIST

MAS- 4004
(Issued 10-10-56)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
MAS- 2097	1	Frame & Field Assembly
GK- 38	4	Screw, Pole Shoe
MAS- 21	1	Terminal
MAS- 22	1	Insulation, Field Conn.
MAS- 26	1	Lead Assy., Field Coil
X- 983	2	Terminal
MAS- 3005S	1	FIELD COIL PACKAGE
MAS- 23	1	Connector, Field Coil
MAS- 1009	1	Coil, Field, L. L.
MAS- 1010J	1	Coil, Field, U. R.
ML- 1007	2	Coil, Field, U. L. & L. R.
MG- 22	1	Washer, Plain, Term. Stud, Inner
MG- 27	1	Stud, Terminal
MG- 68	2	Washer, Ins., Term. Stud
MG- 69	1	Insulation, Term. Stud, Outer
MG- 70	1	Insulation, Term. Stud, Inner
MN- 21	1	Pin, Dowel
8X- 179	2	Nut, Term. Stud, Hex. 3/8 - 16
12X- 201	2	Lockwasher, Term. Stud, 3/8
MH- 20	2	Bolt, Thru
12X- 1014	2	Lockwasher, Thru Bolt, 5/16

Comm. End Head Assembly & Parts Used With

ML- 3090AS	1	Head Assy., Comm. End
GK- 162	2	Insulation, Brush Holder
GT- 17	4	Holder, Brush
GT- 32	2	Insulator, Spring
GT- 35	2	Bushing, Insulating
GT- 37	2	Washer, Insulating
GT- 41	2	Clip, Brush Post
MG- 73	4	Spring, Brush
MH- 53	2	Connector, Ground
MH- 54†	4	Brush
MR- 1005	1	Head Assy., Partial, C. E.
MAL- 40A	1	BEARING, ABS. BRONZE
MR- 1062A	1	Cover, Bearing, Comm. End
8X- 122	4	Screw, Brush, Fill Hd. 8- 32x1/2
12X- 195	4	Lockwasher, Br. Sc., #8
12X- 196	2	Lockwasher, Ground Sc., #10
8X- 311	2	Screw, Ground Rd. Hd. #10- 32x3/8
8X- 794	2	Nut, Ground Sc., Square #10- 32

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part
GK- 174A	1	Washer, Thrust C. E.
MAS- 2035	1	ARAMTURE
MG- 61	1	Washer, Thrust, Intermediate
X- 261	1	Key, Woodruff, D. E., #6

Switch Assembly & Parts Used With

SS- 111R	1	Connector
SS- 4301	1	SOLENOID STARTING SWITCH
8X- 173	1	Nut, Hex. #10- 32
12X- 196	1	Lockwasher, #10
8X- 832	2	Nut, Hex. 5/16- 24
12X- 1014	2	Lockwasher, 5/16
8X- 321	2	Screw, Switch Mtg., Rd. Hd. #10- 32x5/16
X- 1270	2	Washer, Switch Mtg. Sc., Skpf. #10

Miscellaneous Parts

EB- 33	1	BENDIX DRIVE ASSY.
EB- 508	2	Lockwasher
EB- 2303	1	Head Drive
EB- 2319S	1	Sleeve, Compression
EB- 2322	2	Clip, Spring Support
EB- 2406	1	Screw, Spring, Head
EB- 2407	1	Screw, Spring, Shaft
EB- 3105	1	SPRING, DRIVE
EB- 3311	1	Shaft & Pinion
GX- 1024F	1	Band, Cover
ML- 2027A	1	BEARING ASSY., INTERMEDIATE
ML- 21A	1	Bearing Abs. Bronze
PS- 1060D	1	Housing Assy., Pinion
MAB- 88	1	Pin, Dowel
MG- 77A	1	BEARING, ABS. BRONZE
8X- 714	1	Screw, Cover Band, Rd. Hd. #10- 32x1 1/2
8X- 794	1	Nut, Cover Band, Square #10- 32

† BRUSH SET, SERVICE MH- 1054S.

UNIT	APPLICATION
MAS- 4004	Gray Marine

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAS-4005 STARTING MOTOR PARTS LIST

MAS-4005

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
(MAS-2097)	1	Frame & Field Assy.					
GK-38	4	Pole Piece Screw					
MAS-22	1	Field Connection Ins.					
MAS-23	1	Field Coil Connector					
MAS-25	1	Field Coil Connector					
MAS-1008	1	Field Coil - L.R.					
MAS-1009	1	Field Coil - L.L.					
MAS-1021	1	Terminal Post Assy.					
MAS-21	1	Terminal Post Connector					
MG-22	1	Plain Steel Washer					
MG-27	1	Terminal Post					
MG-68	2	Ins. Washer					
MG-69	1	Term. Post Cover Ins.					
MG-70	1	Term. Post Frame Ins.					
5X-179	2	3/8-16 Hex. Nut					
X-201	2	3/8 Lock Washer					
MAS-2010A	1	Field Coil Assy. - U.R.					
MAS-26	1	Field Coil Lead Assy.					
X-983	2	Terminal					
MH-29	4	Pole Piece					
ML-1007	1	Field Coil - U.L.					
MN-21	1	Dowel Pin					
MH-20	2	Frame Screw					
X-1014	2	5/16 Lock Washer					

Comm. End Head Assembly & Parts Used With

MG-1084S	1	Bearing Cover with Oiler					
(ML-3090)	1	Comm. End Head Assembly					
GK-162	2	Br. Holder Spacing Ins.					
GT-17	4	Brush Holder					
GT-32	2	Spring Insulator					
GT-35	2	Ins. Bushing					
GT-37	2	Ins. Washer					
GT-41	2	Br. Holder Post Clip					
MG-73	4	Brush Spring					
MH-53	2	Ground Connector					
MH-54	4	Brush					
ML-1090S	1	C.E. Head Part Assy.					
ML-1040S	1	C.E. Cap & Brg. Assy.					
MR-3	1	Absorbent Bronze Bearing					
8X-1452	4	3/16x5/16 Oval Hd. Rivet					
8X-122	4	#8-32x1/2 Fill. Hd. Screw					
X-195	4	#8 Lock Washer					
X-196	2	#10 Lock Washer					
8X-311	2	#10-32x3/8 Rd. Hd. Screw					
8X-794	2	#10-32 Square Nut					
			1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAS-2006	1	Armature Assembly					
MG-61	2	7/8 Plain Washer					
X-261	1	#6 Woodruff Key					

Switch Assembly & Parts Used With

SS-111R	1	Connector					
SS-4003	1	Solenoid Starting Switch					
12X-196	1	#10 Lock Washer					
8X-832	2	5/16-24 Hex. Nut					
12X-1014	2	5/16 Lock Washer					
8X-1372	1	#10-32 Hex. Nut					
8X-321	2	#10-32x5/16 Rd. Hd. Screw					
X-1270	2	#10 Skpf. Washer					

Miscellaneous Parts

EPA-8	1	Bendix Drive Assy.					
GX-1024	1	Head Band Assy.					
ML-95	1	Lock Spring Ring					
ML-1094	1	Intermediate Plate Assy.					
ML-21A	1	Absorbent Bronze Brg.					
PS-1085	1	Pinion Housing Assy.					
MG-77A	1	Absorbent Bronze Brg.					
MN-21	1	Dowel Pin					
X-489	1	1/4 Oiler - Press in Type					
X-715	1	#10-32x1 1/4 Rd. Hd. Screw					
8X-794	1	#10-32 Square Nut					
			1	2	3	4	5

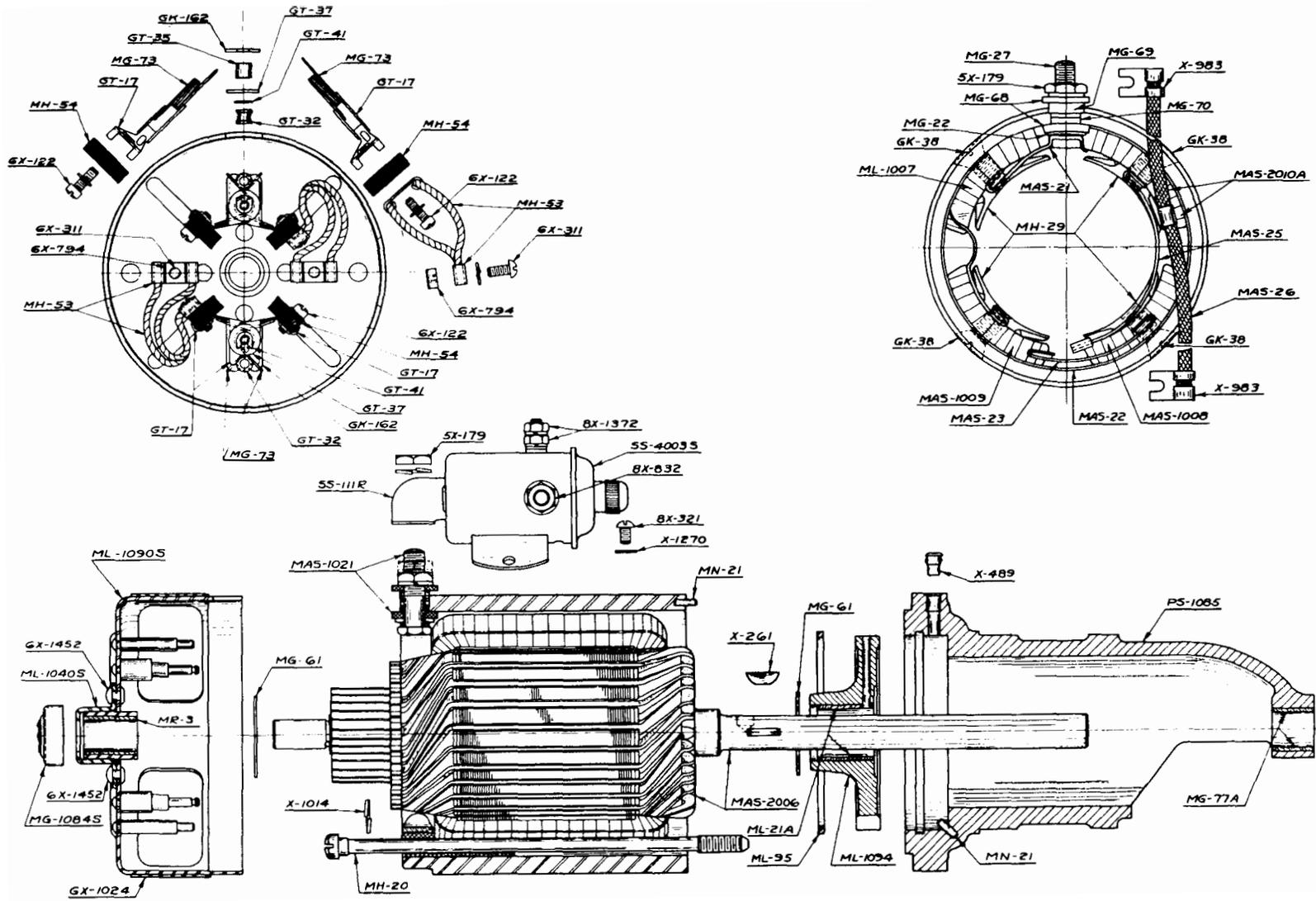
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MAS-4005 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAS-4006 STARTING MOTOR PARTS LIST

MAS-4006

Frame & Field Assembly with Terminal Post & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
(MAS-3097)	1	Frame & Field Assy.					
GK-38	4	Pole Piece Screw					
MAS-22	1	Field Connection Ins.					
MAS-23	1	Field Coil Connector					
MAS-25	1	Field Coil Connector					
MAS-1008	1	Field Coil - L.R.					
MAS-1009	1	Field Coil - L.L.					
MAS-1010A	1	Field Coil Assy. - U.R.					
MAS-26	1	Field Coil Lead Assy.					
X-983	2	Terminal					
MAS-1021	1	Terminal Post Assembly					
MAS-21	1	Term. Post Connector					
MG-22	1	Plain Steel Washer					
MG-27	1	Terminal Post					
MG-68	2	Insulating Washer					
MG-69	1	Term. Post Cover Ins.					
MG-70	1	Term. Post Frame Ins.					
5X-179	2	3/8-16 Hex. Nut					
X-201	2	3/8 Lock Washer					
MH-29	4	Pole Piece					
ML-1007	1	Field Coil - U.L.					
MN-21	1	Dowel Pin					
MH-20	2	Frame Screw					
X-1014	3	5/16 Lock Washer					
8X-1372	1	#10-32 Hex. Nut					

Comm. End Head Assembly & Parts Used With

MG-1084S	1	Bearing Cover with Oiler					
(ML-2090)	1	Comm. End Head Assy.					
GK-162	2	Br. Holder Spacing Ins.					
GT-14	4	Brush Holder					
GT-32	2	Spring Insulator					
GT-35	2	Insulating Bushing					
GT-37	2	Insulating Washer					
GT-41	2	Br. Holder Post Clip					
MG-74	4	Brush Spring					
MH-53	2	Ground Connector					
MH-54	4	Brush					
ML-1090S	1	C.E. Head Part Assy.					
ML-1040S	1	C.E. Cap & Brg. Assy.					
MAL-40A	1	Absorbent Bronze Bearing					
8X-1452	4	3/16x5/16 Oval Head Rivet					
8X-122	4	#8-32x1/2 Fill. Hd. Screw					
X-195	4	#8 Lock Washer					
X-195	2	#10 Lock Washer					
8X-311	2	#10-32x3/8 Rd. Hd. Screw					
3X-794	2	#10-32 Square Nut					
			1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAS-2006	1	Armature Assembly					
MG-51	2	7/8 Plain Washer					
X-261	1	#6 Woodruff Key					

Switch Assembly & Parts Used With

SS-111R	1	Connector					
SS-4301	1	Solenoid Starting Switch					
X-196	1	#10 Lock Washer					
8X-832	2	5/16-24 Hex. Nut					
X-1014	2	5/16 Lock Washer					
8X-1372	1	#10-32 Hex. Nut					
8X-321	2	#10-32x5/16 Rd. Hd. Screw					
X-1270	2	#10 Skpf. Washer					

Miscellaneous Parts

EBA-9	1	Bendix Drive Assembly					
GX-1024F	1	Head Band Assembly					
ML-95	1	Lock Spring Ring					
ML-1094	1	Intermediate Plate Assy.					
ML-21A	1	Absorbent Bronze Brg.					
PS-1085	1	Pinion Housing Assy.					
MG-77A	1	Absorbent Bronze Brg.					
MN-21	1	Dowel Pin					
X-489	1	1/4 Jiler - Press in Type					
X-715	1	#10-32x1 1/4 Rd. Hd. Screw					
8X-794	1	#10-32 Square Nut					
			1	2	3	4	5

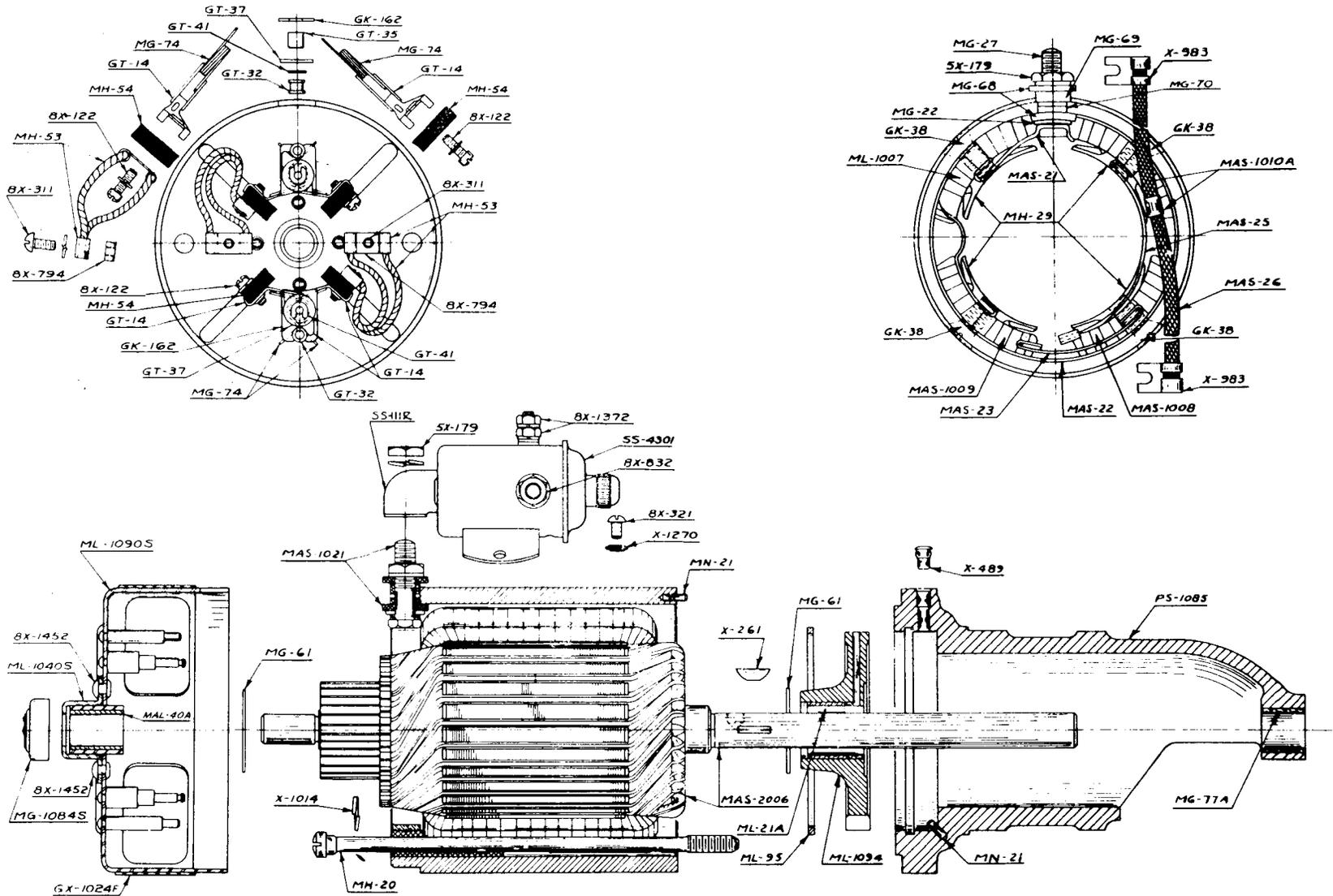
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MAS-4006 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAS- 4007 STARTING MOTOR PARTS LIST

MAS- 4007
(Issued 10-10-56)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
MAS-3097	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAS-21	1	Connector, Term. Stud
MAS-22	1	Insulation, Field Connection
MAS-26	1	Lead Assy., Field Coil
X-983	2	Terminal
MAS-3005S	1	FIELD COIL PACKAGE
MAS-23	1	Connector, Field Coil
MAS-1009	1	Coil, Field, L. L.
MAS-1010J	1	Coil, Field, U. R.
ML-1007	2	Coil, Field, U. L. & L. R.
MG-22	1	Washer, Plain, Term. Stud, Inner
MG-27	1	Stud, Terminal
MG-68	2	Washer, Ins., Term. Stud
MG-69	1	Insulation, Term. Stud, Outer
MG-70	1	Insulation, Term. Stud, Inner
MN-21	1	Pin., Dowel
8X-179	2	Nut, Term. Stud, Hex. 3/8-16
12X-201	2	Lockwasher, Term. Stud, 3/8
MH-20	2	Bolt, Thru
12X-1014	2	Lockwasher, Thru Bolt, 5/16

Comm. End Head Assembly & Parts Used With

ML-2090S	1	Head Assy., Comm. End
GK-162	2	Insulation, Br. Holder
GT-14	4	Holder, Brush
GT-32	2	Insulator, Spring
GT-35	2	Bushing, Insulating
GT-37	2	Washer, Insulating
GT-41	2	Clip, Brush Post
MG-74	4	Spring, Brush
MH-53	2	Connector, Ground
MH-54†	4	Brush
MR-1005	1	Head Assy., Partial, Comm. End
MAL-40A	1	BEARING, ABS. BRONZE
MR-1062A	1	Cover, Bearing, Comm. End
8X-122	4	Screw, Brush, Fill. Hd. #8-32x1/2
12X-195	4	Lockwasher, Brush Sc., #8
12X-196	2	Lockwasher, Ground Sc., #10
8X-311	2	Screw, Ground, Rd. Hd. #10-32x3/8
8X-794	2	Nut, Ground Sc., Square #10-32

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part
GK-174A	1	Washer, Thrust, C. E.
MAS-2035	1	ARMATURE
MG-61	1	Washer, Thrust, Int.
X-261	1	Key, Woodruff, D. E., #6

Switch Assembly & Parts Used With

SS-111R	1	Connector
SS-4301	1	SOLENOID STARTING SWITCH
8X-173	1	Nut, Hex. #10-32
12X-196	1	Lockwasher, #10
8X-832	2	Nut, Hex. 5/16-24
12X-1014	2	Lockwasher, 5/16
8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
X-1270	2	Washer, Switch Mtg. Sc., Skpf. #10

Miscellaneous Parts

EB-51	1	BENDIX DRIVE ASSY.
EB-508	2	Lockwasher
EB-2303	1	Head Drive
EB-2319S	1	Sleeve, Compression
EB-2405	1	SPRING, DRIVE
EB-2406	1	Screw, Spring, Head
EB-2407	1	Screw, Spring, Shaft
EB-2622	2	Clip, Spring Support
EB-5111	1	Shaft & Pinion
GX-1024F	1	Band, Cover
ML-2027A	1	BEARING ASSY., INTERMEDIATE
ML-21A	1	Bearing, Abs. Bronze
PS-1060D	1	Housing Assy., Pinion
MAB-88	1	Pin, Dowel
MG-77A	1	BEARING, ABS. BRONZE
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32

† BRUSH SET, SERVICE MH-1054S

UNIT	APPLICATION
MAS-4007	Gray Marine

Printed in U. S. A.

File in
Equipment & Parts List Binder

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAS-4008 STARTING MOTOR PARTS LIST

MAS-4008

Frame & Field Assy. With Terminal Post & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
(MAS-3025)	1	Frame & Field Assembly					
GK-38	4	Pole Piece Screw					
MAS-22	1	Field Connection Ins.					
MAS-23	1	Field Coil Connector					
MAS-25	1	Field Coil Connector					
MAS-1008	1	Field Coil - L.R.					
MAS-1009	1	Field Coil - L.L.					
MAS-1021	1	Terminal Post Assembly					
MAS-21	1	Term. Post Connector					
MG-22	1	Plain Steel Washer					
MG-27	1	Terminal Post					
MG-68	2	Ins. Washer					
MG-69	1	Term. Post Cover Ins.					
MG-70	1	Term. Post Frame Ins.					
5X-179	2	3/8-16 Hex. Nut					
X-201	2	3/8 Lock Washer					
MAS-2010A	1	Field Coil Assy. - U.R.					
MAS-26	1	Field Coil Lead Assy.					
X-983	2	Terminal					
MH-29	4	Pole Piece					
ML-1007	1	Field Coil - U.L.					
MN-21	1	Dowel Pin					
MH-20	2	Frame Screw					
X-1014	2	5/16 Lock Washer					

Comm. End Head Assy. & Parts Used With

MG-1084S	1	Bearing Cover with Oiler					
(ML-3090)	1	Comm. End Head Assembly					
GK-162	2	Br. Holder Spacing Ins.					
GT-17	4	Brush Holder					
GT-32	2	Spring Insulator					
GT-35	2	Insulating Bushing					
GT-37	2	Insulating Washer					
GT-41	2	Br. Holder Post Clip					
MG-73	4	Brush Spring					
MH-53	2	Ground Connector					
MH-54	4	BRUSH					
ML-1090S	1	C. E. Head Part Assembly					
ML-1040S	1	C.E. Cap & Brg. Assy.					
MAL-40A	1	Absorbent Bronze Bearing					
8X-1452	4	3/16x5/16 Oval Hd. Rivet					
8X-122	4	#8-32x1/2 Fill. Hd. Sc.					
X-195	4	#8 Lock Washer					
X-196	2	#10 Lock Washer					
8X-311	2	#10-32x3/8 Rd. Hd. Sc.					
8X-794	2	#10-32 Square Nut					
			1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
GK-174A	1	1/2 Plain Washer					
MAS-2098	1	ARMATURE ASSEMBLY					
MG-61	1	7/8 Plain Washer					
X-261	1	#6 Woodruff Key					

Miscellaneous Parts

EBA-24	1	BENDIX DRIVE ASSEMBLY					
EB-108	2	Lock Washer					
EB-7819S	1	Compression Sleeve					
EB-8734	1	Take Up Spring					
EB-8803	1	Driving Head					
EB-8805	1	DRIVING SPRING					
EB-8806	1	Hd. Sp. Bolt or Screw					
EB-8807	1	Shaft Spring Screw					
EBA-1111	1	S-A Assembly					
GX-1024F	1	Head Band Assembly					
ML-2027A	1	INTERMEDIATE BRG. ASSY.					
ML-21A	1	Absorbent Bronze Brg.					
PS-1131	1	Pinion Housing Assembly					
MAB-88	1	Dowel Pin					
MG-77A	1	Absorbent Bronze Brg.					
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)

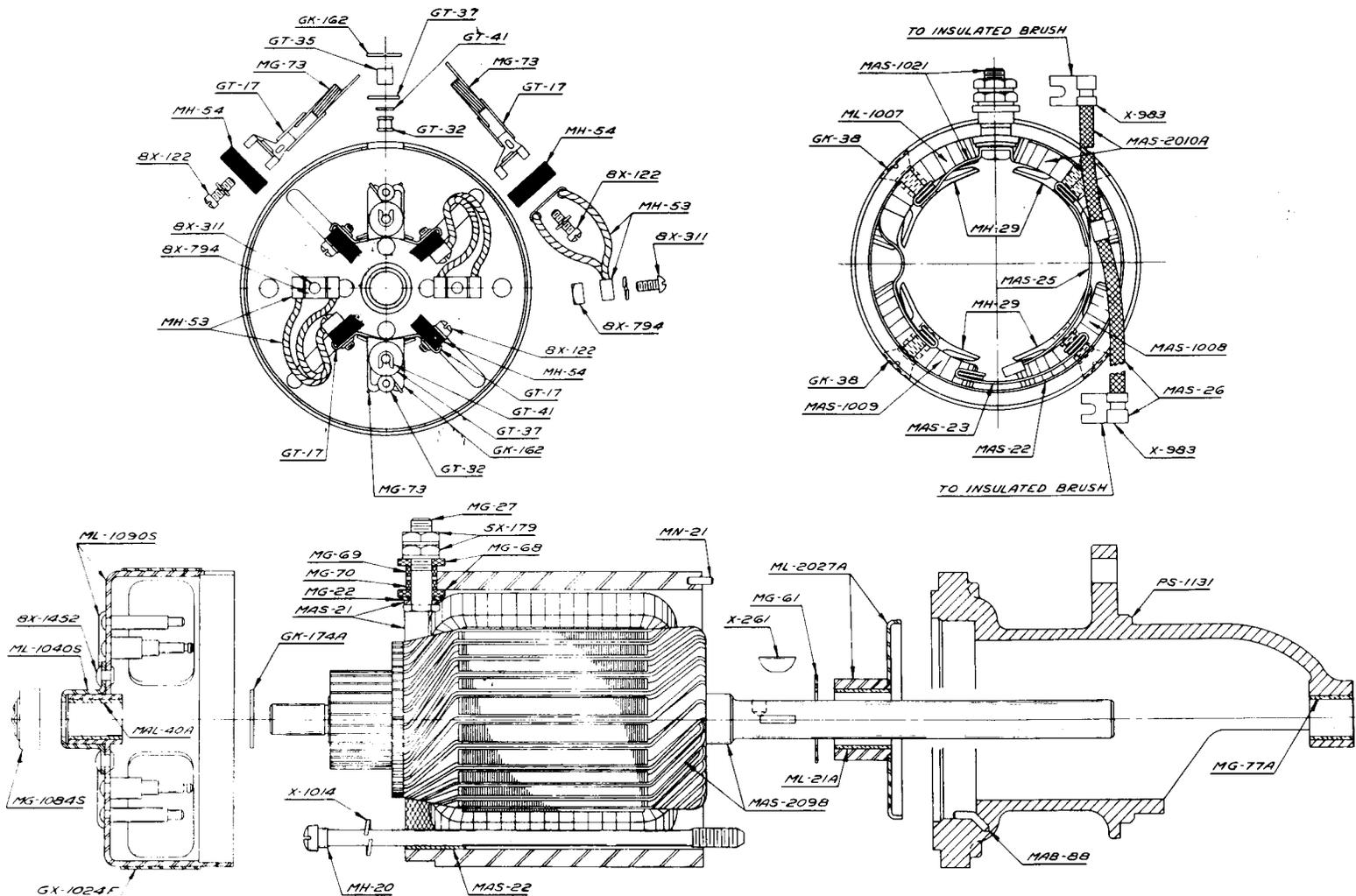
UNIT	APPLICATION
MAS-4008	Reo, Buda Co.

Printed in U. S. A.

File in
Equipment & Parts List Binder

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

MAS-4008 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAS-4009 STARTING MOTOR PARTS LIST

MAS-4009

Frame & Field Assembly with Terminal Stud & 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	
(MAS-3092)	1	Frame & Field Assy.					X-195	4	Lockwasher, Brush Sc., #8					
GK-38	4	Screw, Pole Shoe					X-196	2	Lockwasher, Ground Sc., #10					
MAS-21	1	Terminal					8X-311	2	Screw, Ground, Rd. Hd., #10-32x3/8					
MAS-22	1	Insulation, Field Conn.					8X-794	2	Nut, Ground Sc., Square, #10-32					
MAS-23	1	Connector, Field Coil					MR-1062A	1	Cover, Bearing, Comm. End					
MAS-26	1	Lead Assy., Field Coil					<u>Armature Assembly & Parts Used With</u>							
X-983	2	Terminal					GK-174A	1	Washer, Thrust, Armature Shaft					
MAS-1009	1	Coil, Field, L.L.					MAS-2098	1	Armature					
MAS-1010	1	Coil, Field, U.R.					MG-61	1	Washer, Thrust, Armature Shaft, Int.					
MG-22	1	Washer, Plain, Term. Stud, Inner					X-261	1	Key, Woodruff, #6					
MG-27	1	Stud, Term., 3/8-16					<u>Miscellaneous Parts</u>							
MG-68	2	Washer, Ins., Terminal Stud, Inner					EB-92	1	Bendix Drive Assy.					
MG-69	1	Insulation, Term. Stud, Outer					EB-108	2	Lockwasher					
MG-70	1	Insulation, Term. Stud, Inner					EB-7819S	1	Sleeve, Compression					
ML-1007	2	Coil, Field, U.L. & L.R.					EB-8734	1	Ring, Take Up					
MN-21	1	Pin, Dowel					EB-8803	1	Head, Driving					
8X-179	2	Nut, Term. Stud, Hex., 3/8-16					EB-8805	1	Spring, Drive					
12X-201	2	Lockwasher, Term. Stud, 3/8					EB-8806	1	Screw, Spring, Head					
MH-20	2	Bolt, Thru					EB-8807	1	Screw, Spring, Shaft					
X-1014	2	Lockwasher, Thru Bolt, 5/16					EB-9211	1	Shaft & Pinion					
<u>Comm. End Head Assembly & Parts Used With</u>						GX-1024F	1	Band, Cover						
ML-3090A	1	Head Assy., Comm. End					ML-2027A	1	Bearing Assy., Intermediate					
GK-162	2	Insulation, Spacing, Br. Holder					ML-21A	1	Bearing, Abs. Bronze					
GT-17	4	Holder, Brush					PS-1131	1	Housing Assy., Pinion					
GT-32	2	Insulator, Spring					MAB-88	1	Pin, Dowel					
GT-35	2	Bushing, Insulating					MG-77A	1	Bearing, Abs. Bronze					
GT-37	2	Washer, Insulating					X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2					
GT-41	2	Clip, Brush Post					8X-794	1	Nut, Cover Band, Square, #10-32					
MG-73	4	Spring, Brush							1	2	3	4	5	
MH-53	2	Connector, Ground												
MH-54	4	Brush												
MR-1005	1	Head Assy., Partial, C.E.												
MAL-40A	1	Bearing, Abs. Bronze												
8X-122	4	Screw, Brush, Fil. Hd., #8-32x1/2												
		1	2	3	4	5								

UNIT	APPLICATION
MAS-4009	Four Wheel Drive
MAS-4009	Sterling
MAS-4009	Ward LaFrance

(Issued 8-20-47)

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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

MAS-4011 STARTING MOTOR PARTS LIST

MAS-4011

Frame & Field Assembly with Terminal Stud & 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
(MAS-2097)	1	Frame & Field Assy.			GK-174A	1	Washer, Thrust, Arm. Shaft C.E.		
GK-38	4	Screw, Pole Shoe			MAS-2098	1	Armature		
MAS-21	1	Terminal			MG-61	1	Washer, Thrust, Arm. Shaft, Intermediate		
MAS-22	1	Insulation, Field Conn.			X-261	1	Key, Woodruff, #6		
MAS-23	1	Connector, Field Coil			<u>Switch Assembly & Parts Used With</u>				
MAS-26	1	Lead Assembly, Field Coil			SS-6LA	1	Connector		
X-983	2	Terminal			SS-4301	1	Switch, Starting, Solenoid		
MAS-1009	1	Coil, Field, L.L.			X-196	1	Lockwasher, #10		
MAS-1010	1	Coil, Field, U.R.			8X-832	2	Nut, Hex., 5/16-24		
MG-22	1	Washer, Plain, Term. Stud, Inner			X-1014	2	Lockwasher, 5/16		
MG-27	1	Stud, Term., 3/8-16			8X-173	1	Nut, Hex., #10-32		
MG-68	2	Washer, Ins. Term. Stud, Inner			8X-321	2	Screw, Switch Mtg., Rd. Hd, #10-32x5/16		
MG-69	1	Insulation, Term. Stud, Outer			X-1270	2	Washer, Skpf., Switch Mtg., Screw, #10		
MG-70	1	Insulation, Term. Stud, Inner			<u>Miscellaneous Parts</u>				
ML-1007	1	Coil, Field, U.L. & L.R.			EBA-8	1	Bendix Drive Assy.		
MN-21	1	Pin, Dowel			EB-108	2	Lockwasher		
8X-179	2	Nut, Term. Stud, Hex., 3/8-16			EB-7819S	1	Sleeve, Compression		
12X-201	2	Lockwasher, Term., Stud, 3/8			EB-8734	1	Ring, Take-Up		
MH-20	2	Bolt, Thru			EB-8803	1	Head, Driving		
X-1014	2	Lockwasher, Thru Bolt, 5/16			EB-8805	1	Spring, Drive		
<u>Comm. End Head Assembly & Parts Used With</u>					EB-8806	1	Screw, Spring, Head		
ML-3090A	1	Head Assy., Comm. End			EB-8807	1	Screw, Spring, Shaft		
GK-162	2	Insulation, Spacing, Br. Holder			EBA-211	1	Shaft, & Pinion		
GT-17	4	Holder, Brush			GX-1024F	1	Band, Cover		
GT-32	2	Insulator, Spring			ML-2027A	1	Bearing Assy., Intermediate		
GT-35	2	Bushing, Insulating			ML-21A	1	Bearing, Abs. Bronze		
GT-37	2	Washer, Insulating			PS-1162A	1	Housing Assy., Pinion		
GT-41	2	Clip, Brush Post			MAB-88	1	Pin, Dowel		
MG-73	4	Spring, Brush			MG-77A	1	Bearing, Abs. Bronze		
MH-53	2	Connector, Ground			X-714	1	Screw, Cover Band, Rd. Hd, #10-32x1 1/2		
MH-54	4	Brush			8X-794	1	Nut, Cover Band, Square, #10-32		
MR-1005	1	Head Assy., Partial, C.E.						1	2 3 4 5
MAL-40A	1	Bearing, Abs. Bronze							
8X-122	4	Screw, Brush, Fill. Hd., #8-32x1/2							
X-195	4	Lockwasher, Br. Sc., #8							
X-196	2	Lockwasher, Ground Sc., #10							
8X-311	2	Screw, Ground, Rd. Hd., #10-32x3/8							
8X-794	2	Nut, Ground Sc., Square, #10-32							
MR-1062A	1	Cover, Bearing, Comm. End							
			1	2 3 4 5					

UNIT	APPLICATION
MAS-4011	Crown Body & Coach
MAS-4011	Hug

Printed in U. S. A. (Issued 8-20-47)

File in
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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAS-4016 STARTING MOTOR PARTS LIST

MAS-4016
(Issued 1-13-56)

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
MAS-2097	1	Frame & Field Assy.	GK-174A	1	Washer, Thrust, C. E.
GK-38	4	Screw, Pole Shoe	MAS-2098	1	ARMATURE
MAS-21	1	Terminal	MG-61	1	Washer, Thrust, Intermediate
MAS-22	1	Insulation, Field Connection	X-261	1	Key, Woodruff, D. E. , #6
MAS-26	1	Lead Assy. , Field Coil	Switch Assembly & Parts Used With		
X-983	2	Terminal	SS-6LA	1	Connector
MAS-3005S	1	FIELD COIL PACKAGE	SS-4301	1	SOLENOID STARTING SWITCH
MAS-23	1	Connector, Field Coil	8X-173	1	Nut, Hex. #10-32
MAS-1009	1	Coil, Field, L. L.	12X-196	1	Lockwasher, #10
MAS-1010J	1	Coil, Field, U. R.	8X-832	2	Nut, Hex. 5/16-24
ML-1007	2	Coil, Field, U. L. & L. R.	12X-1014	2	Lockwasher, 5/16
MG-22	1	Washer, Plain, Term. Stud, Inner	8X-321	2	Screw, Switch Mtg. , Rd. Hd. #10-32x5/16
MG-27	1	Stud, Terminal, 3/8-16	X-1270	2	Washer, Switch Mtg. Sc. , Skpf. #10
MG-68	2	Washer, Ins. , Term. Stud	Miscellaneous Parts		
MG-69	1	Insulation, Term. Stud, Outer	EBA-24	1	BENDIX DRIVE ASSY.
MG-70	1	Insulation, Term. Stud, Inner	EB-108	2	Lockwasher
MN-21	1	Pin, Dowel	EB-7819S	1	Sleeve, Compression
8X-179	2	Nut, Term. Stud, Hex. 3/8-16	EB-8803	1	Head, Drive
12X-201	2	Lockwasher, Term. Stud, 3/8	EB-8805	1	Spring, Drive
MH-20	2	Bolt, Thru	EB-8806	1	Screw, Spring, Head
12X-1014	2	Lockwasher, Thru Bolt, 5/16	EB-8807	1	Screw, Spring, Shaft
Comm. End Head Assembly & Parts Used With			EBA-1111	1	Shaft & Pinion
ML-3090AS	1	Head Assy. , Comm. End	GX-1024F	1	Band, Cover
GK-162	2	Insulation, Brush Holder	ML-2027A	1	BEARING ASSY. , INTERMEDIATE
GT-17	4	Holder, Brush	ML-21A	1	Bearing, Abs. Bronze
GT-32	2	Insulator, Spring	PS-1218	1	Housing Assy. , Pinion
GT-35	2	Bushing, Insulating	MAB-88	1	Pin, Dowel
GT-37	2	Washer, Insulating	MG-77A	1	BEARING, ABS. BRONZE
GT-41	2	Clip, Brush Post	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MG-73	4	Spring, Brush	8X-794	1	Nut, Cover Band, Square #10-32
MH-53	2	Connector, Ground	† BRUSH SET, SERVICE MH-1054S		
MH-54†	4	Brush			
MR-1005	1	Head Assy. , Partial, C. E.			
MAL-40A	1	BEARING, ABS. BRONZE			
MR-1062A	1	Cover, Bearing, Comm. End			
8X-122	4	Screw, Brush, Fill. Hd. #8-32x1/2			
12X-195	4	Lockwasher, Brush Sc. #8			
12X-196	2	Lockwasher, Ground Sc. #10			
8X-311	2	Screw, Ground, Rd. Hd. #10-32x3/8			
8X-794	2	Nut, Ground Sc. , Square #10-32			

UNIT	APPLICATION
MAS-4016	Buda

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File in
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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAS-4104 STARTING MOTOR PARTS LIST

MAS-4104

Frame & Field Assembly & Parts Used With			Miscellaneous Parts		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MAS-20	2	Bolt, Thru	EBA-24	1	BENDIX DRIVE ASSY.
(MAS-2127)	1	Frame & Field Assy.	EB-108	2	Lockwasher
GK-38	4	Screw, Pole Shoe	EB-7819S	1	Sleeve, Compression
MAS-21	1	Connector, Term. Stud	EB-8734	1	Ring, Take-Up
MAS-22	1	Insulation, Field Conn.	EB-8803	1	Head, Drive
MAS-1012†	1	Brush, Insulated	EB-8805	1	SPRING, DRIVE
MAS-3005S	1	FIELD COIL PACKAGE	EB-8806	1	Screw, Spring, Head
MAS-23	1	Connector, Field Coil	EB-8807	1	Screw, Spring, Shaft
MAS-1009	1	Coil, Field, L.L.	EBA-1111	1	Shaft & Pinion
MAS-1010	1	Coil, Field, U.R.	GEB-24B	1	Band, Cover
ML-1007	2	Coil, Field, U.L. & L.R.	ML-2027A	1	BEARING ASSY., INTERMEDIATE
MAW-37	1	Bushing, Ins., Term. Stud	ML-21A	1	Bearing, Abs. Bronze
MAX-35	2	Washer, Ins., Term. Stud	PS-1296	1	Housing Assy., Pinion
MAX-44	1	Washer, Plain, Term. Stud, Outer	MAB-88	1	Pin, Dowel
MG-22	1	Washer, Plain, Term. Stud, Inner	MG-77A	1	BEARING, ABS. BRONZE
MLA-28	1	Stud, Terminal, 3/8-16	12X-196	2	Lockwasher, #10
MN-21	1	Pin, Dowel	8X-312	2	Screw, Rd. Hd. #10-32x1/4
8X-179	2	Nut, Term. Stud, Hex. 3/8-16	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
12X-201	2	Lockwasher, Term. Stud, 3/8	8X-794	1	Nut, Cover Band, Square #10-32
12X-1014	2	Lockwasher, Thru Bolt, 5/16			
Comm. End Head Assembly & Parts Used With			† BRUSH SET, SERVICE MAS-2012S.		
ML-3002A	1	Head Assy., Comm. End			
MAL-40A	1	BEARING, ABS. BRONZE			
ML-122	1	Felt			
ML-1034S†	2	Brush, Grounded			
MR-1062A	1	Cover, Bearing, Comm. End			
MZ-19	4	Spring, Brush			
12X-196	6	Lockwasher, C.E. Head Screw, #10			
8X-709	6	Screw, C.E. Head, Fill. Hd. #10-32x7/16			
Armature Assembly & Parts Used With					
GK-174A	1	Washer, Arm. Shaft, C.E.			
MAS-2098	1	ARMATURE			
MG-61	1	Washer, Arm. Thrust, Intermediate			
X-261	1	Key, Woodruff, #6			

UNIT	APPLICATION
MAS-4104	Buda

(Issued 4-5-49)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAS-4106 STARTING MOTOR PARTS LIST

MAS-4106

Frame & Field Assembly & Parts Used With			Switch Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MAS-20	2	Bolt, Thru	MBR-40L	1	Connector
(MAS-2127)	1	Frame & Field Assembly	SSW-4001	1	SOLENOID SWITCH
GK-38	4	Screw, Pole Shoe	8X-164	2	Nut, Hex. 5/16-18
MAS-21	1	Connector, Term. Stud	8X-173	1	Nut, Hex. #10-32
MAS-22	1	Insulation, Field Connection	12X-196	1	Lockwasher, #10
MAS-1012†	1	Brush, Insulated	12X-1014	2	Lockwasher, 5/16
MAS-3005S	1	FIELD COIL PACKAGE	8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
MAS-23	1	Connector, Field Coil	X-1270	2	Washer, Switch Mtg. Sc., Skpf. #10
MAS-1009	1	Coil, Field, L.L.			
MAS-1010	1	Coil, Field, U.R.			
ML-1007	2	Coil, Field, U.L. & L.R.			
MAW-37	1	Bushing, Ins., Term. Stud			
MAX-35	2	Washer, Ins., Term. Stud			
MAX-44	1	Washer, Plain, Term. Stud, Outer			
MG-22	1	Washer, Plain, Term. Stud, Inner			
MLA-28	1	Stud, Terminal, 3/8-16			
MN-21	1	Pin, Dowel			
8X-179	2	Nut, Term. Stud, Hex. 3/8-16			
12X-201	2	Lockwasher, Term. Stud, 3/8			
12X-1014	2	Lockwasher, Thru Bolt, 5/16			
					<u>Miscellaneous Parts</u>
			EBA-24	1	BENDIX DRIVE ASSEMBLY
			EB-108	2	Lockwasher
			EB-7819S	1	Sleeve, Compression
			EB-8734	1	Ring, Take-Up
			EB-8803	1	Head, Drive
			EB-8805	1	SPRING, DRIVE
			EB-8806	1	Screw, Spring, Head
			EB-8807	1	Screw, Spring, Shaft
			EBA-1111	1	Shaft & Pinion
			GEB-24B	1	Band, Cover
			ML-2027A	1	BEARING ASSY., INTERMEDIATE
			ML-21A	1	Bearing, Abs. Bronze
			PS-1296A	1	Housing Assy., Pinion
			MAB-88	1	Pin, Dowel
			MG-77A	1	Bearing, Abs. Bronze
			8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
			8X-794	1	Nut, Cover Band, Sq. #10-32
					† BRUSH SET, SERVICE MAS-2012S.
<u>Comm. End Head Assembly & Parts Used With</u>					
ML-3002A	1	Head Assy., Comm. End			
MAL-40A	1	Bearing, Abs. Bronze			
ML-122	1	Felt			
ML-1034S†	2	Brush, Grounded			
MR-1062A	1	Cover, Bearing, C.E.			
MZ-19	4	Spring, Brush			
12X-196	6	Lockwasher, Head Screw, #10			
8X-709	6	Screw, C.E. Head, Fill. Hd. #10-32x7/16			
<u>Armature Assembly & Parts Used With</u>					
GK-174A	1	Washer, Arm. Shaft, C.E.			
MAS-2098	1	ARMATURE			
MG-61	1	Washer, Arm. Thrust, Intermediate			
X-261	1	Key, Woodruff, #6			

UNIT	APPLICATION
MAS-4106	Hercules

(Issued 3-6-50)

“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

MAS-4107 STARTING MOTOR PARTS LIST

MAS-4107

(Issued 7-8-52)

Frame & Field Assembly & Parts Used With			Miscellaneous Parts		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MAS-20	2	Bolt, Thru	EBA-8	1	BENDIX DRIVE ASSY.
MAS-2127	1	Frame & Field Assembly	EB-108	2	Lockwasher
GK-38	4	Screw, Pole Shoe	EB-7819S	1	Sleeve, Compression
MAS-21	1	Connector, Term. Stud	EB-8734	1	Ring, Take-Up
MAS-22	1	Insulation, Field Conn.	EB-8803	1	Head, Drive
MAS-1012†	1	Brush, Insulated	EB-8805	1	SPRING, DRIVE
MAS-3005S	1	FIELD COIL PACKAGE	EB-8806	1	Screw, Spring, Head
MAS-23	1	Connector, Field Coil	EB-8807	1	Screw, Spring, Shaft
MAS-1009	1	Coil, Field, L. L.	EBA-211	1	Shaft & Pinion
MAS-1010	1	Coil, Field, U. R.	GEB-24B	1	Band, Cover
ML-1007	2	Coil, Field, U. L. & L. R.	ML-2027A	1	BEARING ASSY. , INTERMEDIATE
MAW-37	1	Bushing, Ins. , Term. Stud	ML-21A	1	Bearing, Abs. Bronze
MAX-35	2	Washer, Ins. , Term. Stud	PS-1314	1	Housing Assy. , Pinion
MAX-44	1	Washer, Plain, Term. Stud, Outer	MAB-88	1	Pin, Dowel
MG-22	1	Washer, Plain, Term. Stud, Inner	MG-77A	1	BEARING, ABS. BRONZE
MLA-28	1	Stud, Terminal	12X-196	2	Lockwasher, Switch Mtg. Sc. , #10
MN-21	1	Pin, Dowel	8X-312	2	Screw, Switch Mtg. , Rd. Hd. #10-32x1/4
8X-179	2	Nut, Terminal Stud, Hex. 3/8-16	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
12X-201	2	Lockwasher, Term. Stud, 3/8	8X-794	1	Nut, Cover Band, Square #10-32
12X-1014	2	Lockwasher, Thru Bolt, 5/16			
<u>Comm. End Head Assembly & Parts Used With</u>			<u>Miscellaneous Parts</u>		
ML-3002AS	1	Head Assy. , Comm. End			
MAL-40A	1	BEARING, ABS. BRONZE			
ML-122	1	Felt			
ML-1034S†	2	Brush, Grounded			
MR-1062A	1	Cover, Bearing, Comm. End			
MZ-19	4	Spring, Brush			
12X-196	6	Lockwasher, C. E. Head Screw, #10			
8X-709	6	Screw, C. E. Head, Fill. Hd. #10-32x7/16			
<u>Armature Assembly & Parts Used With</u>			<u>Miscellaneous Parts</u>		
GK-174A	1	Washer, Arm. Shaft, C. E.			
MAS-2098	1	ARMATURE			
MG-61	1	Washer, Arm. Thrust, Intermediate			
X-261	1	Key, Woodruff, D. E. , #6			

† BRUSH SET, SERVICE MAS-2012S.

UNIT	APPLICATION
MAS-4107	Hercules

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File in
Equipment & Parts List Binder

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



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAS-4108 STARTING MOTOR PARTS LIST

MAS-4108

(Issued 10-3-55)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
MAS-2127	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAS-21	1	Connector, Term. Stud
MAS-22	1	Insulation, Field Connection
MAS-1012 †	1	Brush, Insulated
MAS-3005S	1	FIELD COIL PACKAGE
MAS-23	1	Connector, Field Coil
MAS-1009	1	Coil, Field, L. L.
MAS-1010J	1	Coil, Field, U. R.
ML-1007	2	Coil, Field, U. L. & L. R.
MAW-37	1	Bushing, Ins. , Term. Stud
MAX-35	2	Washer, Ins. , Term. Stud
MAX-44	1	Washer, Plain, Term. Stud, Outer
MG-22	1	Washer, Plain, Term. Stud, Inner
MLA-28	1	Stud, Terminal, 3/8-16
MN-21	1	Pin, Dowel
8X-179	2	Nut, Term. Stud, Hex. 3/8-16
12X-201	2	Lockwasher, Term. Stud, 3/8
MH-20	2	Bolt, Thru
12X-1014	2	Lockwasher, Thru Bolt, #10

Comm. End Head Assembly & Parts Used With

ML-3002AS	1	Head Assy. , Comm. End
MAL-40A	1	BEARING, ABS. BRONZE
ML-122	1	Felt
ML-1034S †	2	Brush, Grounded
MR-1062A	1	Cover, Bearing, C. E.
MZ-19	4	Spring, Brush
12X-196	6	Lockwasher, Head Screw, #10
8X-709	6	Screw, C. E. Head, Fill. Hd. #10-32x7/16

Armature Assembly & Parts Used With

GK-174A	1	Washer, Arm. Shaft, C. E.
MAS-2098	1	ARMATURE
MG-61	1	Washer, Arm. Thrust, Intermediate
X-261	1	Key, Woodruff, D. E. , #6

Switch Assembly & Parts Used With

Part No.	No. Used	Name of Part
MBR-40	1	Connector
SSW-4001	1	SOLENOID SWITCH
8X-164	2	Nut, Hex. 5/16-18
8X-173	1	Nut, Hex. #10-32
12X-196	1	Lockwasher, #10
12X-1014	2	Lockwasher, 5/16
8X-321	2	Screw, Switch Mtg. , Rd. Hd. #10-32x5/16
X-1270	2	Washer, Switch Mtg. Sc. , Skpf. #10

Miscellaneous Parts

EBA-8	1	BENDIX DRIVE ASSEMBLY
EB-108	2	Lockwasher
EB-7819S	1	Sleeve, Compression
EB-8734	1	Ring, Take-Up
EB-8803	1	Head, Drive
EB-8805	1	SPRING, DRIVE
EB-8806	1	Screw, Spring, Head
EB-8807	1	Screw, Spring Shaft
EBA-211	1	Shaft & Pinion
GEB-24B	1	Band, Cover
ML-2027A	1	Bearing Assy. , Intermediate
ML-21A	1	BEARING, ABS. BRONZE
PS-1314A	1	Housing Assy. , Pinion
MAB-88	1	Pin, Dowel
MG-77A	1	BEARING, ABS. BRONZE
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32

† BRUSH SET, SERVICE MAS-2012S.

UNIT	APPLICATION
MAS-4108	Chris Craft

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAU-4005 STARTING MOTOR PARTS LIST

MAU-4005

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
GT-20	2	Frame Screw					
(MAU-2001)	1	Frame & Field Assy.					
GK-38	4	Pole Piece Screw					
MAB-29	4	Pole Piece					
MAB-30	1	Field Connection Ins.					
MAB-31	1	Insulating Washer					
MAB-85	1	Insulating Bushing					
MAF-59	1	Field Coil Connector					
MAU-1007A	1	Field Coil Assy. - U.L.					
MAU-14	1	Terminal					
MAU-1008	1	Field Coil - L.R.					
MAU-1009	1	Field Coil - L.L.					
MAU-1010A	1	Field Coil Assy. - U.R.					
MAU-1033	1	Connector & Brush Assy.					
MAB-12	1	Brush					
MAU-12	1	Brush					
MN-21	2	Dowel Pin					
MU-28	1	Terminal Post					
MU-37	1	5/16 Plain Washer					
MU-39	1	Insulating Washer					
X-1014	1	5/16 Lock Washer					
5X-1376	1	5/16-24 Hex. Nut					
X-199	2	1/4 Lock Washer					
X-1014	1	5/16 Lock Washer					
5X-1376	1	5/16-24 Hex. Nut					

Comm. End Plate Assembly & Parts Used With

MAB-2002	1	Comm. End Plate Assy.					
MZ-16	2	Brush Holder					
MZ-19	4	Brush Spring					
MZ-40A	1	Absorbent Bronze Brg.					
MZ-1034	2	Brush Assy. - Grounded					
X-532	4	1/8x1/4 Oval Hd. Tub. Rivet					
			1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAB-2006	1	Armature Assembly					
MAB-35	1	Brg. Thrust Spacer					
MU-54	2	Thrust Washer					
X-261	1	#6 Woodruff Key					
<u>Miscellaneous Parts</u>							
EBA-2	1	Bendix Drive Assembly					
MAB-1024	1	Head Band Assembly					
MAB-2040A	1	Intermediate Brg. Assy.					
MG-77A	1	Absorbent Bronze Brg.					
PS-1088	1	Pinion Housing Assy.					
MAB-88	1	Dowel Pin					
MG-77A	1	Absorbent Bronze Brg.					
X-715	1	#10-32x1 1/4 Rd. Hd. Screw					
8X-794	1	#10-32 Square Nut					
			1	2	3	4	5

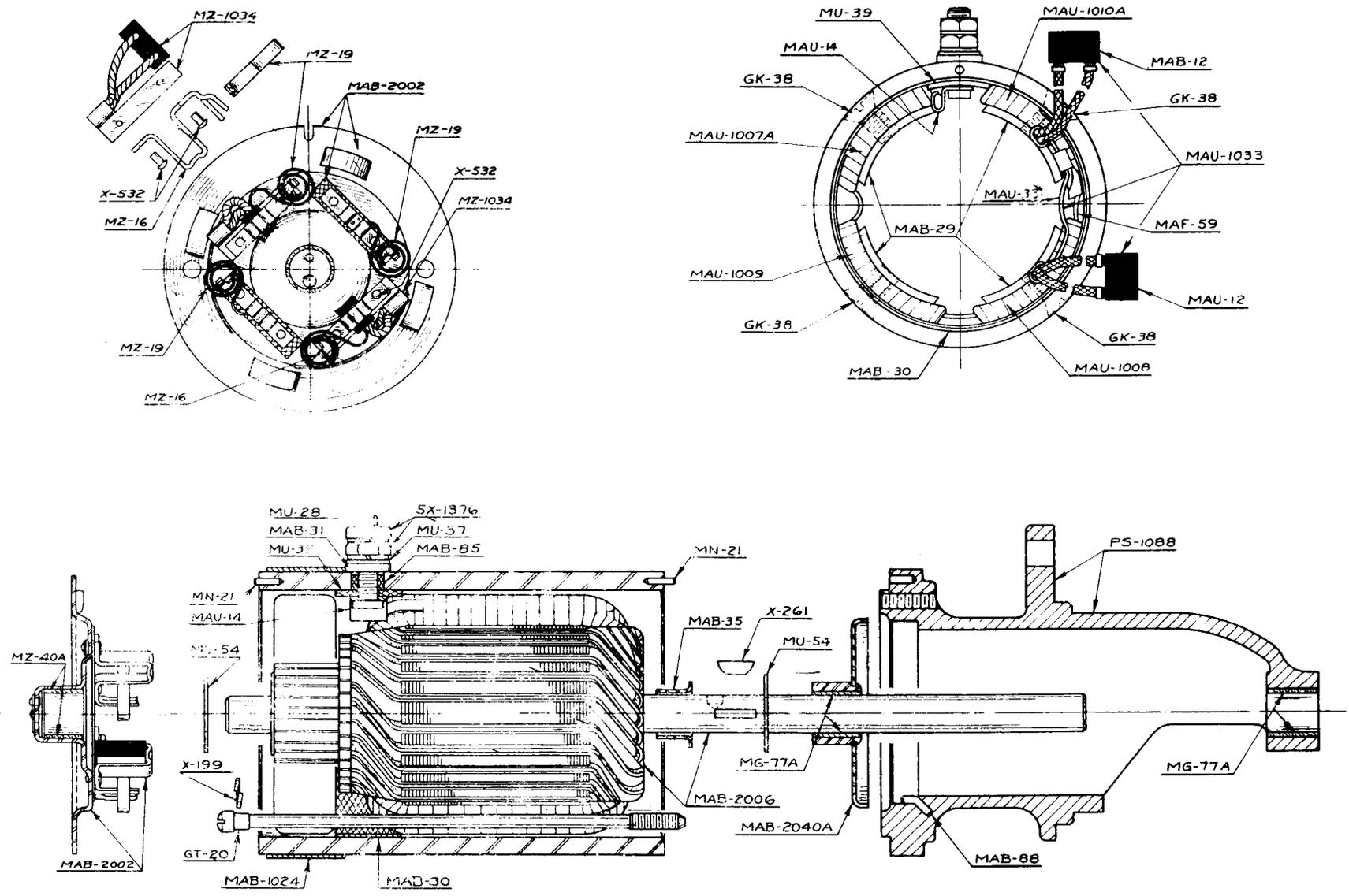
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"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

MAU-4005 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAS-4006 STARTING MOTOR PARTS LIST

MAS-4006

Frame & Field Assembly with Terminal Post & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
(MAS-3097)	1	Frame & Field Assy.					
GK-38	4	Pole Piece Screw					
MAS-22	1	Field Connection Ins.					
MAS-23	1	Field Coil Connector					
MAS-25	1	Field Coil Connector					
MAS-1008	1	Field Coil - L.R.					
MAS-1009	1	Field Coil - L.L.					
MAS-1010A	1	Field Coil Assy. - U.R.					
MAS-26	1	Field Coil Lead Assy.					
X-983	2	Terminal					
MAS-1021	1	Terminal Post Assembly					
MAS-21	1	Term. Post Connector					
MG-22	1	Plain Steel Washer					
MG-27	1	Terminal Post					
MG-68	2	Insulating Washer					
MG-69	1	Term. Post Cover Ins.					
MG-70	1	Term. Post Frame Ins.					
5X-179	2	3/8-16 Hex. Nut					
X-201	2	3/8 Lock Washer					
MH-29	4	Pole Piece					
ML-1007	1	Field Coil - U.L.					
MN-21	1	Dowel Pin					
MH-20	2	Frame Screw					
X-1014	3	5/16 Lock Washer					
8X-1372	1	#10-32 Hex. Nut					

Comm. End Head Assembly & Parts Used With

MG-1084S	1	Bearing Cover with Oiler					
(ML-2090)	1	Comm. End Head Assy.					
GK-162	2	Br. Holder Spacing Ins.					
GT-14	4	Brush Holder					
GT-32	2	Spring Insulator					
GT-35	2	Insulating Bushing					
GT-37	2	Insulating Washer					
GT-41	2	Br. Holder Post Clip					
MG-74	4	Brush Spring					
MH-53	2	Ground Connector					
MH-54	4	Brush					
ML-1090S	1	C.E. Head Part Assy.					
ML-1040S	1	C.E. Cap & Brg. Assy.					
MAL-40A	1	Absorbent Bronze Bearing					
8X-1452	4	3/16x5/16 Oval Head Rivet					
8X-122	4	#3-32x1/2 Fill. Hd. Screw					
X-195	4	#8 Lock Washer					
X-195	2	#10 Lock Washer					
8X-311	2	#10-32x3/8 Rd. Hd. Screw					
3X-794	2	#10-32 Square Nut					
			1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAS-2006	1	Armature Assembly					
MG-61	2	7/8 Plain Washer					
X-261	1	#6 Woodruff Key					

Switch Assembly & Parts Used With

SS-111R	1	Connector					
SS-4301	1	Solenoid Starting Switch					
X-196	1	#10 Lock Washer					
8X-832	2	5/16-24 Hex. Nut					
X-1014	2	5/16 Lock Washer					
8X-1372	1	#10-32 Hex. Nut					
8X-321	2	#10-32x5/16 Rd. Hd. Screw					
X-1270	2	#10 Skpf. Washer					

Miscellaneous Parts

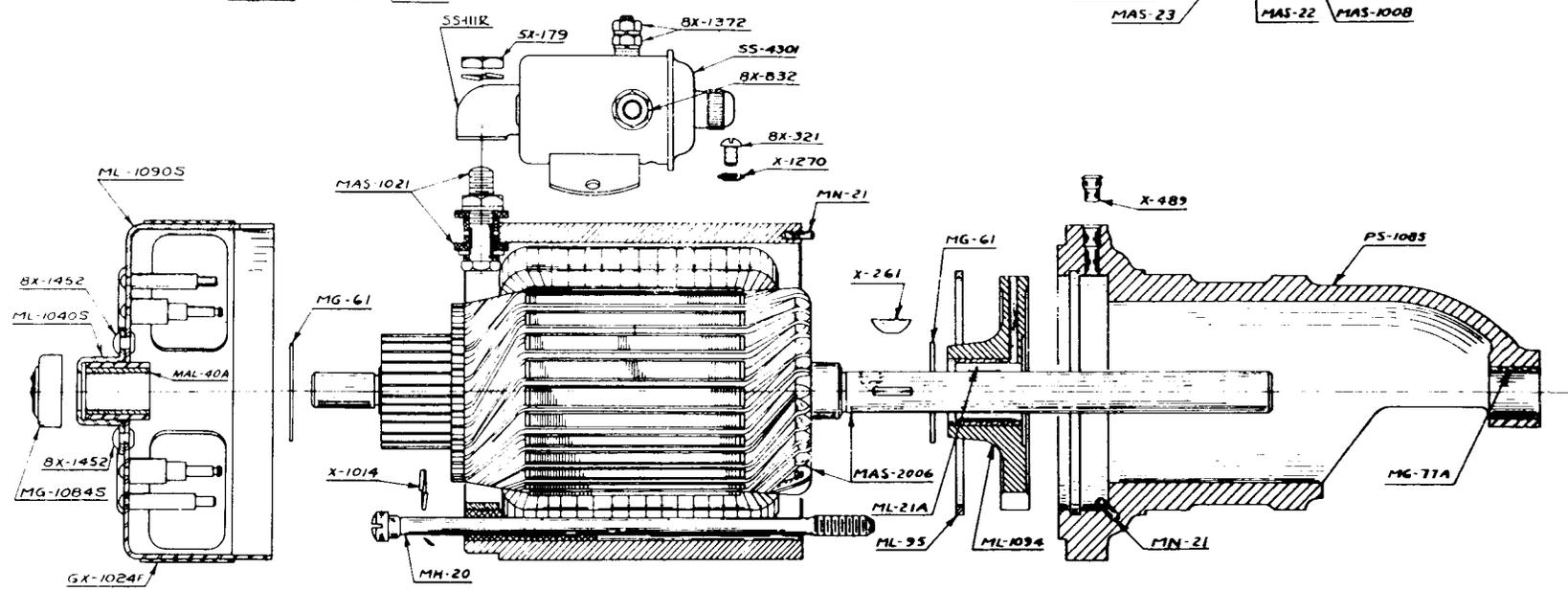
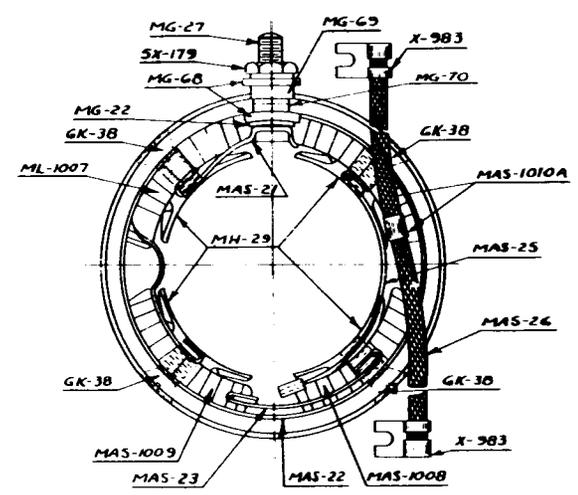
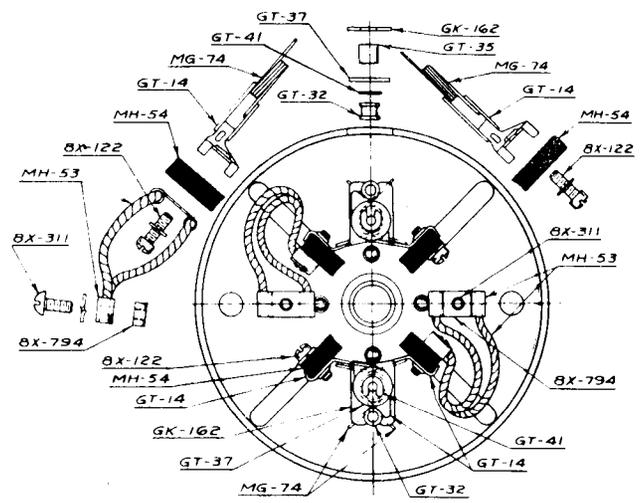
EBA-9	1	Bendix Drive Assembly					
GX-1024F	1	Head Band Assembly					
ML-95	1	Lock Spring Ring					
ML-1094	1	Intermediate Plate Assy.					
ML-21A	1	Absorbent Bronze Brg.					
PS-1085	1	Pinton Housing Assy.					
MG-77A	1	Absorbent Bronze Brg.					
MN-21	1	Dowel Pin					
X-489	1	1/4 Oiler - Press in Type					
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)

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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."



MAS-4006 STARTING MOTOR ILLUSTRATION

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAU-4007 STARTING MOTOR PARTS LIST

MAU-4007

Frame & Field Assembly with Terminal Post & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
GT-20	2	Frame Screw					
(MAU-2112)	1	Frame & Field Assy.					
GK-38	4	Pole Piece Screw					
MAB-29	4	Pole Piece					
MAB-30	1	Field Connection Ins.					
MAB-31	1	Insulating Washer					
MAB-85	1	Insulating Bushing					
MAF-59	1	Field Coil Connector					
MAU-1007A	1	Field Coil Assy. - U.L.					
MAU-14	1	Terminal					
MAU-1008	1	Field Coil - L.R.					
MAU-1009	1	Field Coil - L.L.					
MAU-1010A	1	Field Coil Assy. - U.R.					
MAU-1033	1	Connector & Brush Assembly					
MAB-12	1	Brush					
MAU-12	1	Brush					
MN-21	2	Dowel Pin					
MU-28	1	Terminal Post					
MU-37	1	5/16 Plain Washer					
MU-39	1	Insulating Washer					
X-1014	1	5/16 Lock Washer					
5X-1376	1	5/16-24 Hex. Nut					
X-199	2	1/4 Lock Washer					
X-1014	1	5/16 Lock Washer					
5X-1376	1	5/16-24 Hex. Nut					

Comm. End Plate Assembly & Parts Used With

MAB-2002	1	Comm. End Plate Assy.					
MZ-16	2	Brush Holder					
MZ-19	4	Brush Spring					
MZ-40A	1	Absorbent Bronze Brg.					
MZ-1034	2	Brush Assy. - Grounded					
X-532	4	1/8x1/4 Oval Hd. Tubular Rivet					
			1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAB-2006	1	Armature Assembly					
MAB-35	1	Brg. Thrust Spacer					
MU-54	2	Thrust Washer - 1/32" Thick					
X-261	1	#6 Woodruff Key					

Switch Assembly & Parts Used With

SS-6L	1	Connector					
SS-4003	1	Solenoid Starting Switch					
12X-196	1	#10 Lock Washer					
8X-832	2	5/16-24 Hex. Nut					
12X-1014	2	5/16 Lock Washer					
8X-1372	1	#10-32 Hex. Nut					
8X-321	2	#10-32x5/16 Rd. Hd. Screw					
X-1270	2	#10 Skpf. Washer					

Miscellaneous Parts

EBA-2	1	Bendix Drive Assy.					
MAB-1024F	1	Head Band Assembly					
MAB-2040	1	Intermediate Brg. Assy.					
MG-77A	1	Absorbent Bronze Brg.					
PS-1C20	1	Pinion Housing Assy.					
MAB-88	1	Dowel Pin					
MG-77A	1	Absorbent Bronze Brg.					
X-489	1	1/4 Oiler - Press in Type					
X-715	1	#10-32x1 1/4 Rd. Hd. Screw					
8X-794	1	#10-32 Square Nut					
			1	2	3	4	5

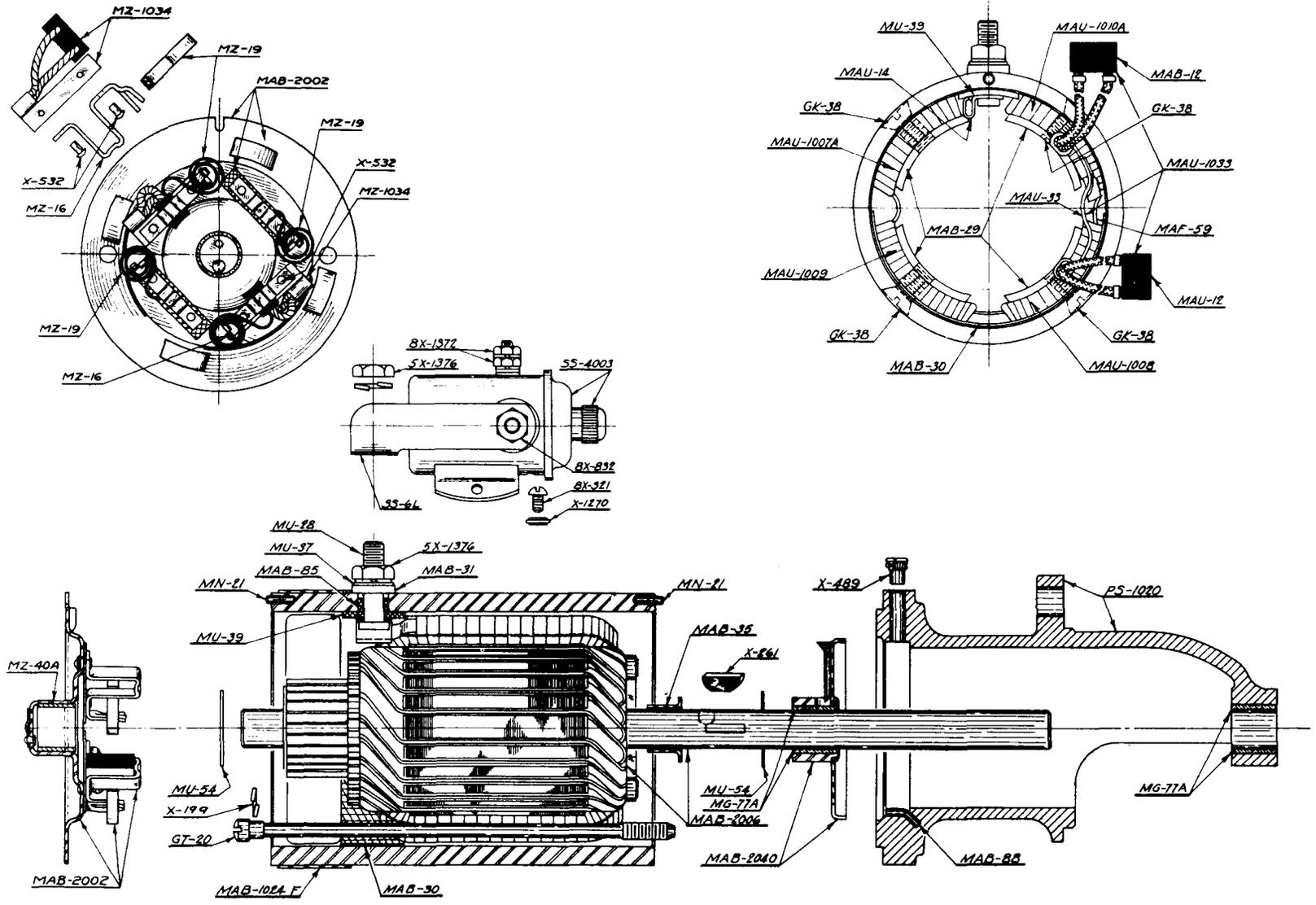
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MAU-4007 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAU-4008 STARTING MOTOR PARTS LIST

MAU-4008

Frame & Field Assy. With Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
GT-20	2	Frame Screw					
(MAU-3112)	1	Frame & Field Assy.					
GK-38	4	Pole Piece Screw					
MAB-29	4	Pole Piece					
MAB-30	1	Field Connection Ins.					
MAB-31	1	Insulating Washer					
MAB-85	1	Insulating Bushing					
MAF-59	1	Field Coil Connector					
MAU-1007A	1	Field Coil Assy.-U.L.					
MAU-14	1	Terminal					
MAU-1008	1	Field Coil - L.R.					
MAU-1009	1	Field Coil - L.L.					
MAU-2010	1	Field Coil Assy.-U.R.					
MAU-2033	1	Connector & Brush Assembly					
MAB-12	1	Brush					
MAU-12	1	Brush					
MN-21	2	Dowel Pin					
MU-28	1	Terminal Post					
MU-37	1	5/16 Plain Washer					
MU-39	1	Insulating Washer					
X-1014	1	5/16 Lock Washer					
5X-1376	1	5/16-24 Hex. Nut					
X-199	2	1/4 Lock Washer					
X-1014	1	5/16 Lock Washer					
5X-1376	1	5/16-24 Hex. Nut					

Comm. End Plate Assy. & Parts Used With

MAB-3002	1	Comm. End Plate Assy.					
MZ-16	2	Brush Holder					
MZ-19	4	Brush Spring					
MZ-40A	1	Absorbent Bronze Brg.					
MZ-1034	2	Brush Assy.-Grounded					
X-532	4	1/8x1/4 Oval Hd. Tubular Rivet					

Armature Assembly & Parts Used With

MAB-2006	1	Armature Assembly					
MAB-35	1	Brg. Thrust Spacer					
MU-54	2	Thrust Washer-1/32" Thick					
X-261	1	#6 Woodruff Key					
			1	2	3	4	5

Switch Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
SS-6L	1	Connector					
SS-4003	1	Solenoid Starting Switch					
12X-196	1	#10 Lock Washer					
8X-832	2	5/16-24 Hex. Nut					
12X-1014	2	5/16 Lock Washer					
8X-1372	1	#10-32 Hex. Nut					
8X-321	2	#10-32x5/16 Rd.Hd. Screw					
X-1270	2	#10 Skpf. Washer					
<u>Miscellaneous Parts</u>							
EB-99	1	Bendix Drive Assy.					
MAB-1024F	1	Head Band Assy.					
MAB-2040	1	Intermediate Brg. Assy.					
MG-77A	1	Absorbent Bronze Brg.					
PS-1020	1	Pinion Housing Assy.					
MAB-88	1	Dowel Pin					
MG-77A	1	Absorbent Bronze Brg.					
X-489	1	1/4 Oiler - Press in Type					
X-715	1	#10-32x1 1/4 Rd.Hd. Screw					
8X-794	1	#10-32 Square Nut					
			1	2	3	4	5

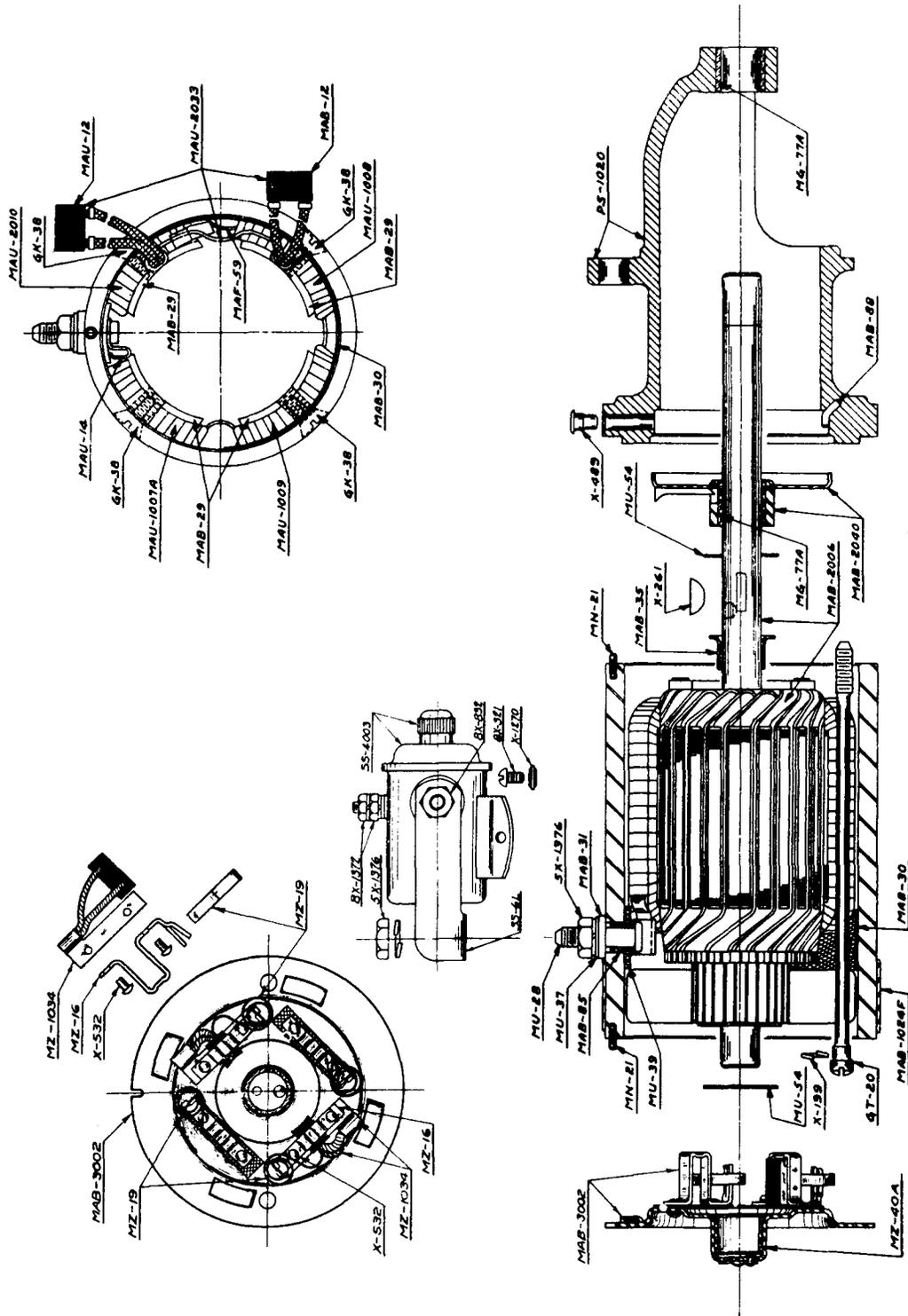
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"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

MAU-4008 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAU-4010 STARTING MOTOR PARTS LIST

MAU-4010

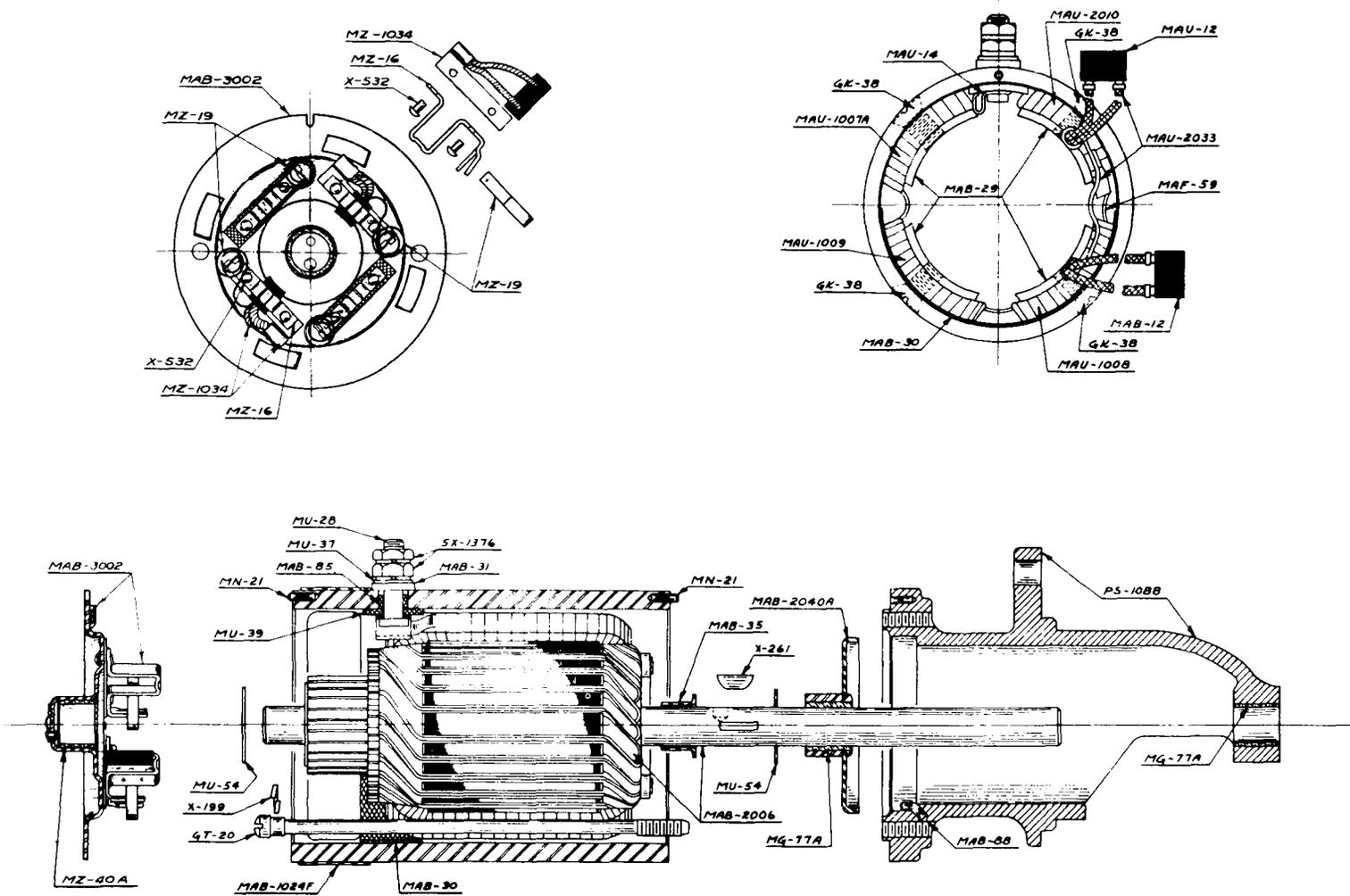
<u>Frame & Field Assy. With Terminal Post & Parts Used With</u>						<u>Armature Assembly & Parts Used With</u>								
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part					
		1	2	3	4	5			1	2	3	4	5	
GT-20	2	Frame Screw					MAB-2006	1	Armature Assembly					
(MAU-3001)	1	Frame & Field Assy.					MAB-35	1	Brg. Thrust Spacer					
GK-38	4	Pole Piece Screw					MU-54	2	Thrust Washer-1/32" Thick					
MAB-29	4	Pole Piece					X-261	1	#6 Woodruff Key					
MAB-30	1	Field Connection Ins.					<u>Miscellaneous Parts</u>							
MAB-31	1	Ins. Washer					EB-99	1	Bendix Drive Assy.					
MAB-85	1	Ins. Bushing					MAB-1024F	1	Head Band Assy.					
MAF-59	1	Field Coil Connector					MAB-2040A	1	Intermediate Bearing Assy.					
MAU-1007A	1	Field Coil Assy.-U.L.					MG-77A	1	Absorbent Bronze Brg.					
MAU-14	1	Terminal					PS-1088	1	Pinion Housing Assy.					
MAU-1008	1	Field Coil - L.R.					MAB-88	1	Dowel Pin					
MAU-1009	1	Field Coil - L.L.					MG-77A	1	Absorbent Bronze Brg.					
MAU-2010	1	Field Coil Assy.-U.R.					X-715	1	#10-32x1 1/4 Rd.Hd. Screw					
MAU-2033	1	Connector & Brush Assembly					8X-794	1	#10-32 Square Nut					
MAB-12	1	Brush							1	2	3	4	5	
MAU-12	1	Brush							(Issued 12/9/38)					
MN-21	2	Dowel Pin												
MU-28	1	Terminal Post												
MU-37	1	5/16 Plain Washer												
MU-39	1	Ins. Washer												
X-1014	1	5/16 Lock Washer												
5X-1376	1	5/16-24 Hex. Nut												
X-199	2	1/4 Lock Washer												
X-1014	1	5/16 Lock Washer												
5X-1376	1	5/16-24 Hex. Nut												
<u>Comm. End Plate Assy. & Parts Used With</u>														
MAB-3002	1	Comm. End Plate Assy.												
MZ-16	2	Brush Holder												
MZ-19	4	Brush Spring												
MZ-40A	1	Absorbent Bronze Brg.												
MZ-1034	2	Brush Assy.-Grounded												
X-532	4	1/8x1/4 Oval Hd. Tubular Rivet												
		1	2	3	4	5								

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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."

MAU-4010 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAU-4011 STARTING MOTOR PARTS LIST

MAU-4011

PRELIMINARY

Frame & Field Assembly With Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
(MAU-3001)	1	Frame & Field Assy.					
GK-38	4	Pole Piece Screw					
MAB-29	4	Pole Piece					
MAB-30	1	Field Connection Ins.					
MAB-31	1	Insulating Washer					
MAB-85	1	Insulating Bushing					
MAF-59	1	Field Coil Connector					
MAU-1007A	1	Field Coil Assy. - U.L.					
MAN-14	1	Terminal					
MAU-1008	1	Field Coil - L.R.					
MAU-1009	1	Field Coil - L.L.					
MAU-2010	1	Field Coil Assy. - U.R.					
MAU-2033	1	Connector & Br. Assy.					
MAB-12	1	BRUSH					
MAU-12	1	BRUSH					
MN-21	2	Dowel Pin					
MU-28	1	Terminal Post					
MU-37	1	5/16 Plain Washer					
MU-39	1	Insulating Washer					
X-1014	1	5/16 Lock Washer					
5X-1376	1	5/16-24 Hex. Nut					
MW-20A	2	Frame Screw					
X-199	2	1/4 Lock Washer					
X-1014	1	5/16 Lock Washer					
5X-1376	1	5/16-24 Hex. Nut					

Comm. End Plate Assembly & Parts Used With

MAB-3002	1	Comm. End Plate Assy.					
MZ-16	2	Brush Holder					
MZ-19	4	Brush Spring					
MZ-1034	2	BRUSH ASSY. - GROUNDED					
X-532	4	1/8x1/4 Oval Hd. Tub.					
		Rivet					
	1		2	3	4	5	

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAB-2115	1	ARMATURE ASSEMBLY					
MU-54	1	Thrust Washer - 1/32 Thick					
<u>Miscellaneous Parts</u>							
EB-92	1	BENDIX DRIVE ASSY.					
EB-108	2	Lock Washer					
EB-7819S	1	Compression Sleeve					
EB-8734	1	Take-Up Spring					
EB-8803	1	Driving Head					
EB-8805	1	DRIVE SPRING					
EB-8806	1	Hd. Spring Bolt or Screw					
EB-8807	1	Shaft Spring Screw					
EB-9211	1	S - A Assembly					
MAB-1024F	1	Head Band Assy.					
MAD-1058	1	Intermediate Plate Assy.					
MG-77A	1	ABSORBENT BRONZE BRG.					
ML-18A	1	ABSORBENT BRONZE BRG.					
MAH-15	1	Bendix Drive Shaft					
MN-1	1	Felt Washer Retainer					
MN-6	1	Bendix Shaft Gear					
MN-19	1	Felt Washer					
PS-1099	1	Pinion Housing Assy.					
MN-21	1	Dowel Pin					
MP-41A	1	Absorbent Bronze Brg.					
EX-87	4	1/4-20x7/8 Hex. Hd. Sc.					
X-196	3	#10 Lock Washer					
X-199	4	1/4 Lock Washer					
X-261	2	#6 Woodruff Key					
EX-312	3	#10-32x1/4 Rd. Hd. Screw					
EX-505	1	1/8 Pipe Plug					
X-715	1	#10-32x1 1/4 Rd. Hd. Screw					
EX-794	1	#10-32 Square Nut					
			1	2	3	4	5

(Issued 5-16-41)

UNIT	APPLICATION
MAU-4011	Brockway

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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 regular part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAU-4013 STARTING MOTOR PARTS LIST

MAU-4013

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
GT-20	2	Frame Screw					
(MAU-2001)	1	Frame & Field Assy.					
GK-38	4	Pole Piece Screw					
MAB-29	4	Pole Piece					
MAB-30	1	Field Connection Ins.					
MAB-31	1	Insulating Washer					
MAB-35	1	Insulating Bushing					
MAF-39	1	Field Coil Connector					
MAU-1007A	1	Field Coil Assy. - U.L.					
MAU-14	1	Terminal					
MAU-1008	1	Field Coil - L.R.					
MAU-1009	1	Field Coil - L.L.					
MAU-1010A	1	Field Coil Assy. - U.R.					
MAU-1033	1	Connector & Brush Assembly					
MAB-12	1	Brush					
MAU-12	1	Brush					
MN-21	2	Dowel Pin					
MU-28	1	Terminal Post					
MU-37	1	5/16 Plain Washer					
MU-39	1	Insulating Washer					
X-1014	1	5/16 Lock Washer					
5X-1376	1	5/16-24 Hex. Nut					
X-199	2	1/4 Lock Washer					
X-1014	1	5/16 Lock Washer					
5X-1376	1	5/16-24 Hex. Nut					

Comm. End Plate Assembly & Parts Used With

MAB-2002	1	Comm. End Plate Assy.					
MZ-16	2	Brush Holder					
MZ-19	4	Brush Spring					
MZ-40A	1	Absorbent Bronze Brg.					
MZ-1034	2	Brush Assy. - Grounded					
X-532	4	1/8x1/4 Oval Hd. Tubular Rivet					
			1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAH-2006	1	Armature Assembly					
MAB-35	1	Brg. Thrust Spacer					
MU-54	2	Thrust Washer - 1/32" Thick					
X-261	1	#6 Woodruff Key					
<u>Miscellaneous Parts</u>							
EBA-8	1	Bendix Drive Assembly					
MAE-1024F	1	Head Band Assembly					
MAB-2040A	1	Intermediate Brg. Assy.					
MG-77A	1	Absorbent Bronze Brg.					
PS-1130	1	Pinion Housing Assy.					
MAB-88	1	Dowel Pin					
MG-77A	1	Absorbent Bronze Brg.					
X-715	1	#10-32x1 1/4 Rd. Hd. Screw					
8X-794	1	#10-32 Square Nut					
			1	2	3	4	5

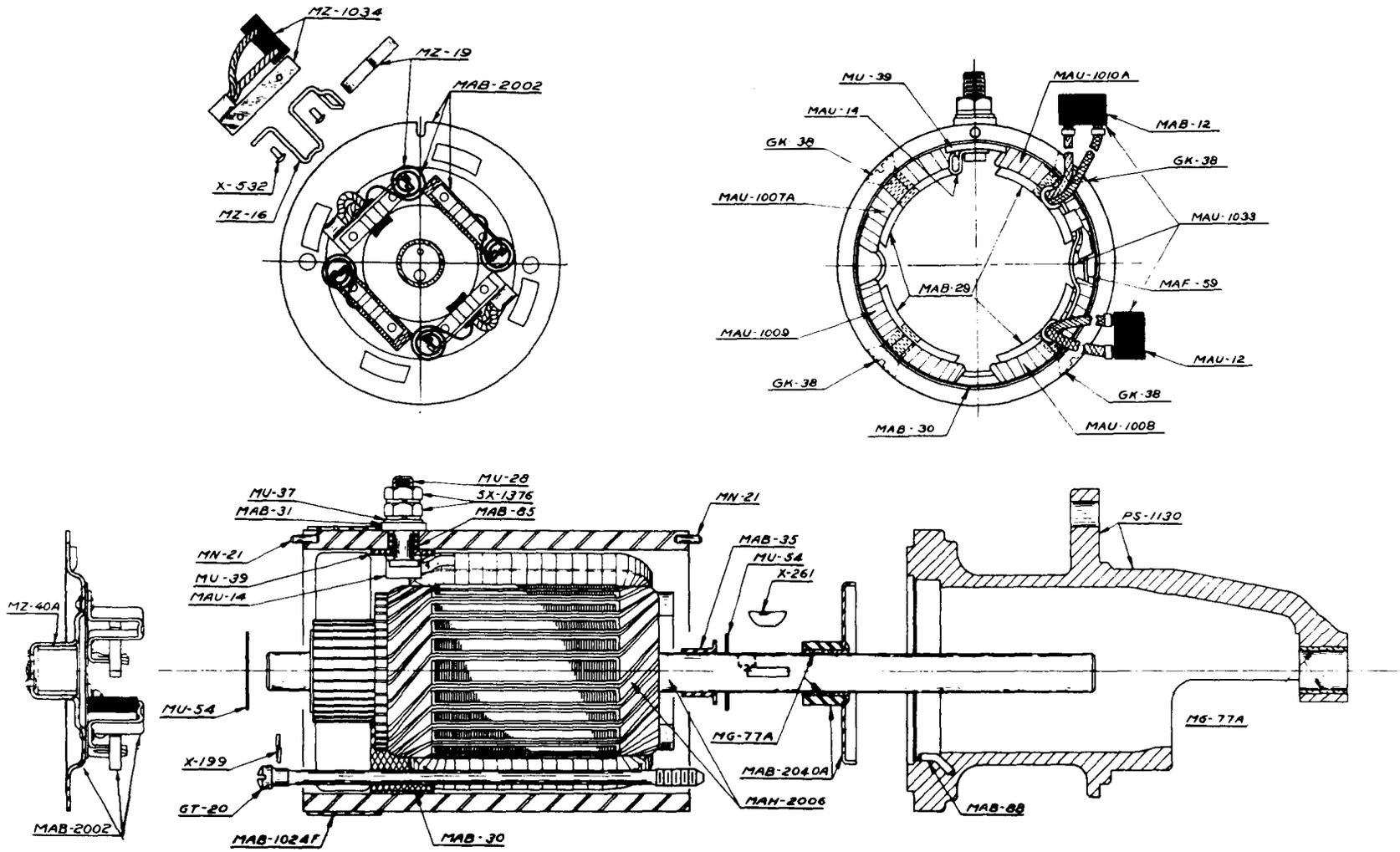
(Issued 8/12/38)

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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."

MAU-4013 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAU-4016 STARTING MOTOR PARTS LIST

MAU-4016

PRELIMINARY

<u>Frame & Field Assembly With Terminal Post & Parts Used With</u>						<u>Switch 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
GT-20	2	Frame Screw						SS-6L	1	Connector					
(MAU-2112)	1	Frame & Field Assembly						SS-4003	1	SOLENOID STARTING SWITCH					
GK-38	4	Pole Piece Screw						12X-196	1	#10 Lock Washer					
MAB-29	4	Pole Piece						8X-832	2	5/16-24 Hex. Nut					
MAB-30	1	Field Connection Ins.						12X-1014	2	5/16 Lock Washer					
MAB-31	1	Insulating Washer						8X-1372	1	#10-32 Hex. Nut					
MAB-85	1	Insulating Bushing						8X-321	2	#10-32x5/16 Rd. Hd. Screw					
MAF-59	1	Field Coil Connector						X-1270	2	#10 Skpf. Washer					
MAU-1007A	1	Field Coil Assy.- U.L.						<u>Miscellaneous Parts</u>							
MAN-14	1	Terminal						EB-92	1	BENDIX DRIVE ASSEMBLY					
MAU-1008	1	Field Coil - L.R.						EB-108	2	Lock Washer					
MAU-1009	1	Field Coil - L.L.						EB-7819S	1	Compression Sleeve					
MAU-1010A	1	Field Coil Assy.- U.R.						EB-8734	1	Take-Up Spring					
MAU-1033	1	Connector & Brush Assy.						EB-8803	1	Driving Head					
MAB-12	1	BRUSH						EB-8805	1	DRIVE SPRING					
MAU-12	1	BRUSH						EB-8806	1	Hd. Spring Bolt or Screw					
MNV-21	2	Dowel Pin						EB-8807	1	Shaft Spring Screw					
MU-28	1	Terminal Post						EB-9211	1	S-A Assembly					
MU-37	1	5/16 Plain Washer						EB-1024F	1	Head Band Assembly					
MU-39	1	Insulating Washer						MAB-2040	1	INTERMEDIATE BEARING ASSY.					
X-1014	1	5/16 Lock Washer						MG-77A	1	Absorbent Bronze Brg.					
5X-1376	1	5/16-24 Hex. Nut						PS-1147	1	Pinion Housing Assembly					
X-199	2	1/4 Lock Washer						MAB-88	1	Dowel Pin					
X-1014	1	5/16 Lock Washer						MG-77A	1	Absorbent Bronze Brg.					
5X-1376	1	5/16-24 Hex. Nut						X-715	1	#10-32x1 1/4 Rd. Hd. Screw					
								8X-794	1	#10-32 Square Nut					
											1	2	3	4	5
<u>Comm. End Head Assembly & Parts Used With</u>															
MAB-2002	1	Comm. End Head Assembly													
MZ-16	2	Brush Holder													
MZ-19	4	Brush Spring													
MZ-1034	2	BRUSH ASSY.- Grounded													
X-532	4	1/8x1/4 Oval Hd. Tubular Rivet													
<u>Armature Assembly & Parts Used With</u>															
MAH-2006	1	ARMATURE ASSEMBLY													
MAB-35	1	Bearing Thrust Spacer													
MU-54	2	Thrust Washer - 1/32" Thick													
X-261	1	#6 Woodruff Key													
			1	2	3	4	5								

(Issued 1-19-42)

UNIT	APPLICATION
MAU-4016	Diamond T

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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

MAU-4019,B STARTING MOTOR PARTS LIST

MAU-4019,B

Frame & Field Assy. With Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
GT-20	2	Frame Screw					
(MAU-3001)	1	Frame & Field Assembly					
GK-38	4	Pole Piece Screw					
MAB-29	4	Pole Piece					
MAB-30	1	Field Connection Ins.					
MAB-31	1	Insulating Washer					
MAB-85	1	Insulating Bushing					
MAF-59	1	Field Coil Connector					
MAU-1007A	1	Field Coil Assy. - U.L.					
MAU-14	1	Terminal					
MAU-1008	1	Field Coil - L.R.					
MAU-1009	1	Field Coil - L.L.					
MAU-2010	1	Field Coil Assy. - U.R.					
MAU-2033	1	Connector & Brush Assy.					
MAB-12	1	BRUSH					
MAU-12	1	BRUSH					
MN-21	2	Dowel Pin					
MU-28	1	Terminal Post					
MU-37	1	5/16 Plain Washer					
MU-39	1	Insulating Washer					
X-1014	1	5/16 Lock Washer					
5X-1376	1	5/16-24 Hex. Nut					
X-199	2	1/4 Lock Washer					
X-1014	1	5/16 Lock Washer					
5X-1376	1	5/16-24 Hex. Nut					

Comm. End Plate Assy. & Parts Used With

MAB-3002	1	Comm. End Plate Assembly					
MZ-16	2	Brush Holder					
MZ-19	4	Brush Spring					
MZ-40A	1	ABSORBENT BRONZE BRG.					
MZ-1034	2	BRUSH ASSY. - GROUNDED					
X-532	4	1/8x1/4 Oval Head Tubular Rivet					
			1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAB-2128	1	ARMATURE ASSEMBLY					
MAB-35	1	Bearing Thrust Spacer					
MU-54	2	Thrust Washer					
X-261	1	#6 Woodruff Key					

Miscellaneous Parts

EBA-9	1	BENDIX DRIVE ASSEMBLY					
EB-108	2	Lock Washer					
EB-7819S	1	Compression Sleeve					
EB-8734	1	Take-Up Spring					
EB-8803	1	Driving Head					
EB-8806	1	Hd. Spring Bolt or Screw					
EB-8807	1	Shaft Spring Screw					
EB-9405	1	DRIVE SPRING					
EB-9911	1	S-A Assembly					
*		Head Band Assembly					
MAB-2040A	1	INTERMEDIATE BEARING ASSY.					
MG-77A	1	Absorbent Bronze Brg.					
PS-1040A	1	Pinion Housing Assembly					
MAB-88	1	Dowel Pin					
MG-77A	1	ABSORBENT BRONZE BRG.					
X-715	1	#10-32x1 1/4 Rd. Hd. Screw					
8X-794	1	#10-32 Square Nut					
			1	2	3	4	5

(Issued 9-13-39)

Assembly No.	Head Band Assembly
MAU-4019	MAB-1024F
MAU-4019B	MAU-1024

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

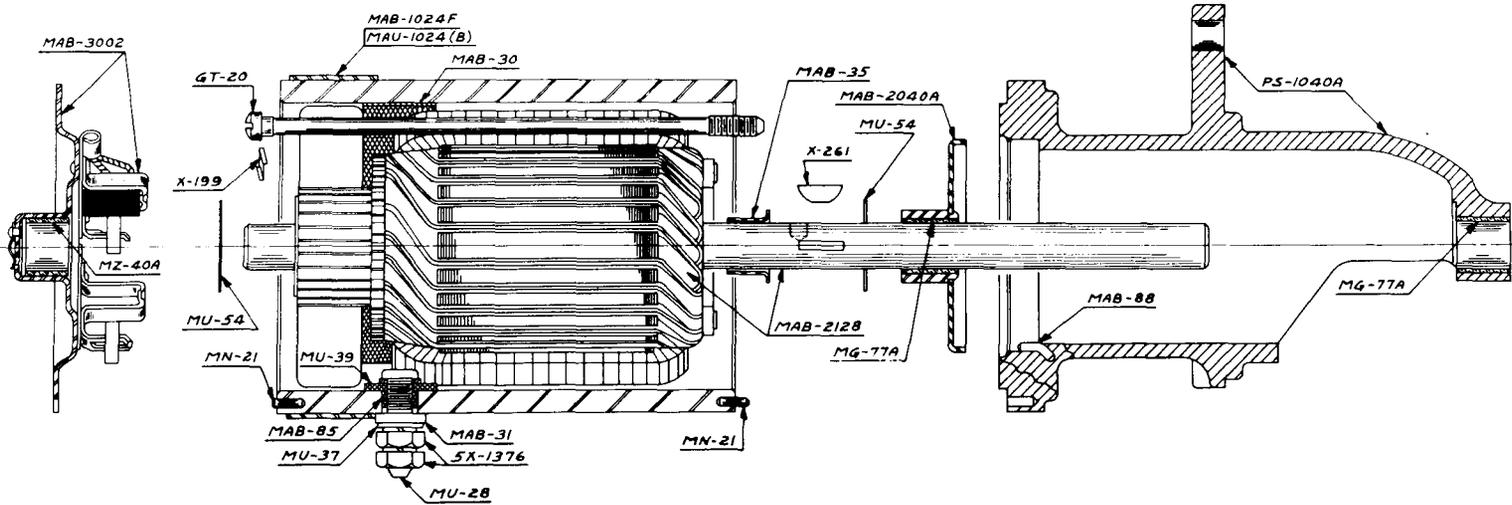
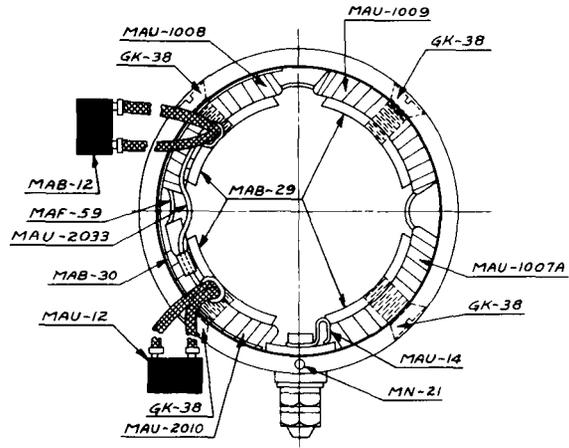
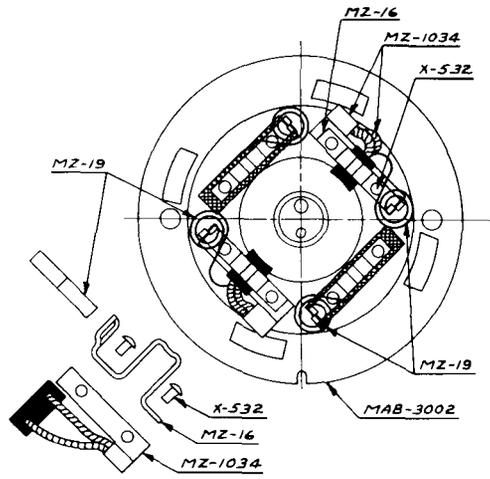
UNIT	APPLICATION
MAU-4019	Witte Engine Co.
MAU-4019B	

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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."

MAU-4019,B STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAU-4022 STARTING MOTOR PARTS LIST

MAU-4022

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
GT-20	2	Frame Screw					
(MAU-2001)	1	Frame & Field Assembly					
GK-38	4	Pole Piece Screw					
MAB-29	4	Pole Piece					
MAB-30	1	Field Connection Ins.					
MAB-31	1	Ins. Washer					
MAB-85	1	Ins. Bushing					
MAF-59	1	Field Coil Connector					
MAU-1007A	1	Field Coil Assy. - U.L.					
MAU-14	1	Terminal					
MAU-1008	1	Field Coil - L.R.					
MAU-1009	1	Field Coil - L.L.					
MAU-1010A	1	Field Coil Assy. - U.R.					
MAU-1033	1	Connector & Brush Assy.					
MAB-12	1	BRUSH					
MAU-12	1	BRUSH					
MN-21	2	Dowel Pin					
MU-28	1	Terminal Post					
MU-37	1	5/16 Plain Washer					
MU-39	1	Ins. Washer					
X-1014	1	5/16 Lock Washer					
5X-1376	1	5/16-24 Hex. Nut					
X-199	2	1/4 Lock Washer					
X-1014	1	5/16 Lock Washer					
5X-1376	1	5/16-24 Hex. Nut					

Comm. End Plate Assembly & Parts Used With

MAB-2002	1	Comm. End Plate Assembly					
MZ-16	2	Brush Holder					
MZ-19	4	Brush Spring					
MZ-40A	1	ABSORBENT BRONZE BRG.					
MZ-1034	2	BRUSH ASSY. - GROUNDED					
X-532	4	1/8x1/4 Oval Hd. Tub. Rivet					
			1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAB-2129	1	ARMATURE ASSEMBLY					
MAB-35	1	Brg. Thrust Spacer					
MU-54	2	Thrust Washer					
X-261	1	#6 Woodruff Key					
<u>Miscellaneous Parts</u>							
EBA-25	1	BENDIX DRIVE ASSEMBLY					
MAB-1024F	1	Head Band Assembly					
MAB-2040A	1	INTERMEDIATE BRG. ASSEY.					
MG-77A	1	Absorbent Bronze Brg.					
PS-1143A	1	Pinion Housing Assembly					
MAB-88	1	Dowel Pin					
MP-41A	1	Absorbent Bronze Brg.					
X-715	1	#10-32x1 1/4 Rd. Hd. Sc.					
8X-794	1	#10-32 Square Nut					
			1	2	3	4	5

(Issued 4-4-39)

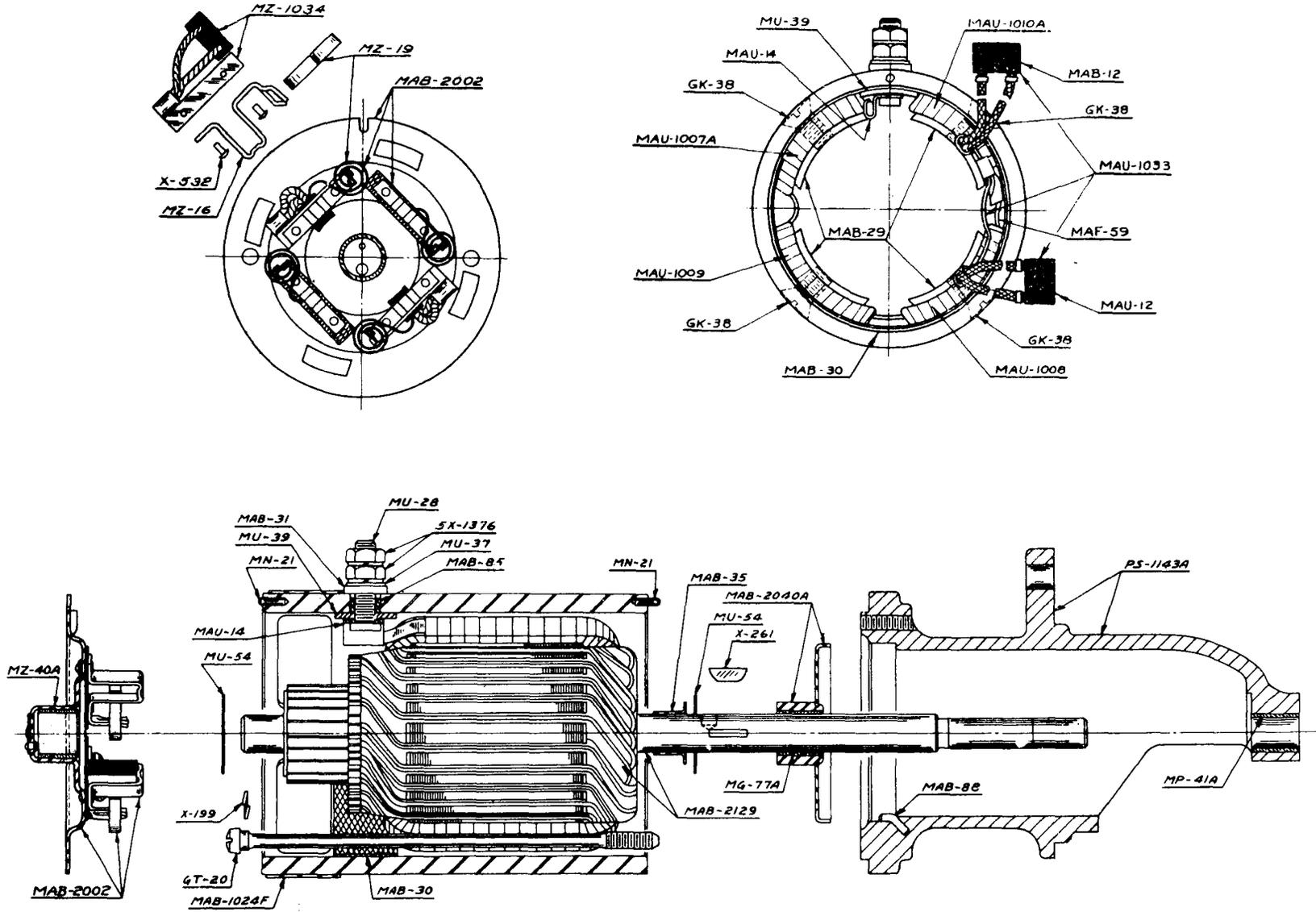
UNIT	APPLICATION
MAU-4022	Brockway

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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."

MAU-4022 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAU-4023 STARTING MOTOR PARTS LIST

MAU-4023

Frame & Field Assy. With Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
		1 2 3 4 5					
GT-20	2	Frame Screw					
(MAU-3112)	1	Frame & Field Assembly					
GK-38	4	Pole Piece Screw					
MAB-29	4	Pole Piece					
MAB-30	1	Field Connection Ins.					
MAB-31	1	Insulating Washer					
MAB-85	1	Insulating Bushing					
MAF-59	1	Field Coil Connector					
MAU-1007A	1	Field Coil Assy. - U.L.					
MAU-14	1	Terminal					
MAU-1008	1	Field Coil - L.L.					
MAU-1009	1	Field Coil - L.L.					
MAU-2010	1	Field Coil Assy. - U.R.					
MAU-2033	1	Connector & Brush Assy.					
MAB-12	1	BRUSH					
MAU-12	1	BRUSH					
MN-21	2	Dowel Pin					
MU-28	1	Terminal Post					
MU-37	1	5/16 Plain Washer					
MU-39	1	Insulating Washer					
X-1014	1	5/16 Lock Washer					
5X-1376	1	5/16-24 Hex. Nut					
X-199	2	1/4 Lock Washer					
X-1014	1	5/16 Lock Washer					
5X-1376	1	5/16-24 Hex. Nut					

Comm. End Plate Assy. & Parts Used With

MAB-3002	1	Comm. End Plate Assembly					
MZ-16	2	Brush Holder					
MZ-19	4	Brush Spring					
MZ-40A	1	ABSORBENT BRONZE BRG.					
MZ-1034	2	BRUSH ASSY. - GROUNDED					
X-532	4	1/8x1/4 Oval Head Tubular Rivet					
		1 2 3 4 5					

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAB-2133	1	ARMATURE ASSEMBLY					
MAB-35	1	Bearing Thrust Spacer					
MU-54	2	Thrust Washer					
X-261	2	#6 Woodruff Key					

Switch Assembly & Parts Used With

SS-6L	1	Connector					
SS-4001	1	SOLENOID STARTING SWITCH					
12X-196	1	#10 Lock Washer					
8X-832	2	5/16-24 Hex. Nut					
12X-1014	2	5/16 Lock Washer					
8X-1372	1	#10-32 Hex. Nut					
8X-321	2	#10-32x5/16 Rd. Hd. Screw					
X-1270	2	#10 Skpf. Washer					

Miscellaneous Parts

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

(Issued 9-13-39)

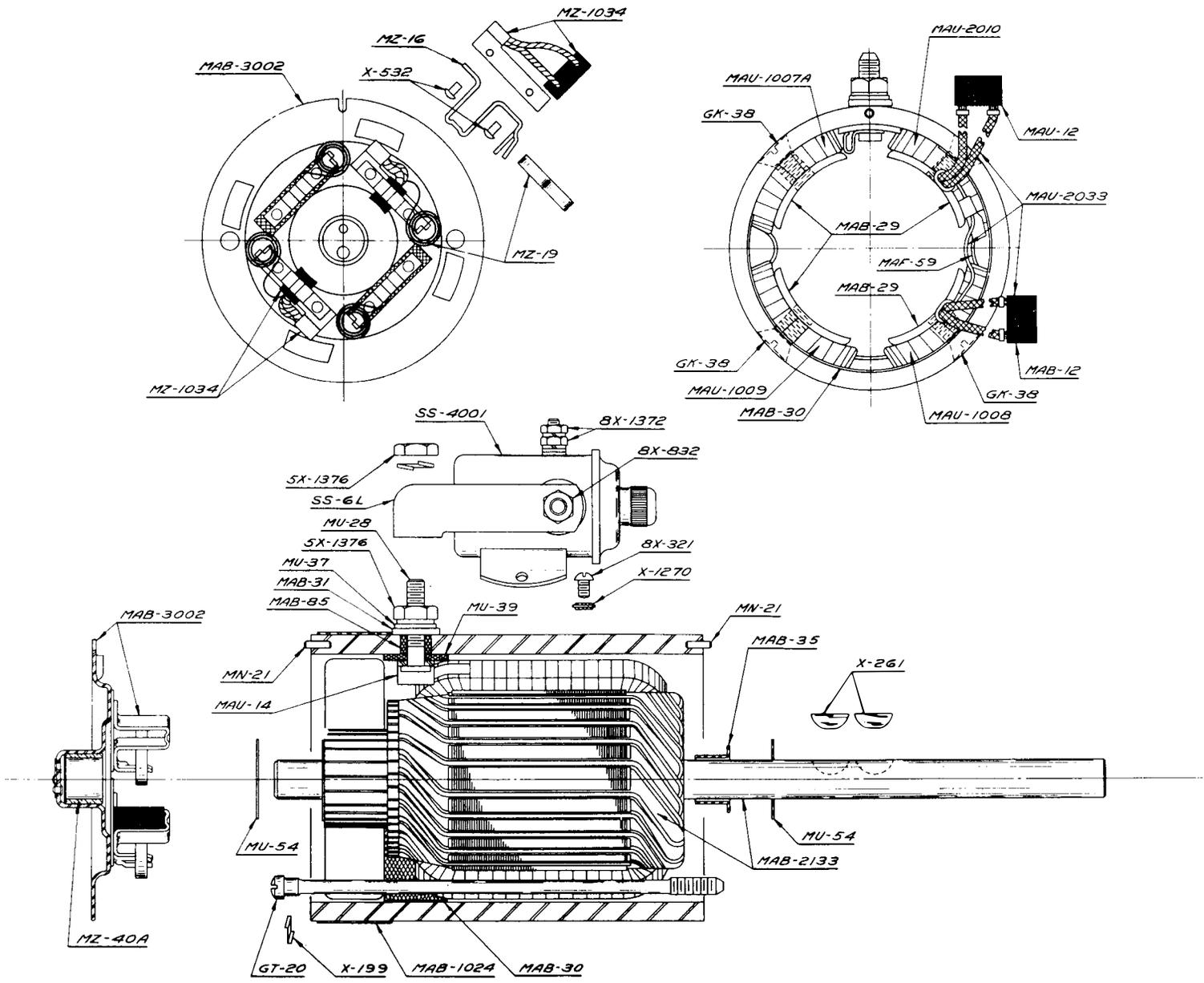
UNIT	APPLICATION
MAU-4023	Insley Mfg. Co.

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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."

MAU-4023 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAU-4025 STARTING MOTOR PARTS LIST

MAU-4025

Frame & Field Assy. With Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GT-20	2					Frame Screw
(MAU-2001)	1					Frame & Field Assembly
GK-38	4					Pole Piece Screw
MAB-29	4					Pole Piece
MAB-30	1					Field Connection Ins.
MAB-31	1					Insulating Washer
MAB-85	1					Insulating Bushing
MAF-59	1					Field Coil Connector
MAU-1007A	1					Field Coil Assy. - U.L.
MAU-14	1					Terminal
MAU-1008	1					Field Coil - L.R.
MAU-1009	1					Field Coil - L.L.
MAU-1010A	1					Field Coil Assy. - U.R.
MAU-1033	1					Connector & Brush Assy.
MAB-12	1					BRUSH
MAU-12	1					BRUSH
MN-21	2					Dowel Pin
MU-28	1					Terminal Post
MU-37	1					5/16 Plain Washer
MU-39	1					Insulating Washer
X-1014	1					5/16 Lock Washer
5X-1376	1					5/16-24 Hex. Nut
X-199	2					1/4 Lock Washer
X-1014	1					5/16 Lock Washer
5X-1376	1					5/16-24 Hex. Nut

Comm. End Plate Assy. & Parts Used With

MAB-2002	1	Comm. End Plate Assembly
MZ-16	2	Brush Holder
MZ-19	4	Brush Spring
MZ-40A	1	ABSORBENT BRONZE BRG.
MZ-1034	2	BRUSH ASSY. - GROUNDED
X-532	4	1/8x1/4 Oval Head Tubular Rivet
		1 2 3 4 5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAB-2129	1					ARMATURE ASSEMBLY
MAB-35	1					Bearing Thrust Spacer
MU-54	2					Thrust Washer
X-261	1					#6 Woodruff Key

Miscellaneous Parts

EBA-25	1	BENDIX DRIVE ASSEMBLY
EB-108	2	Lock Washer
EB-7819S	1	Compression Sleeve
EB-8711	1	S-A Assembly
EB-8734	1	Take-Up Spring
EB-8803	1	Driving Head
EB-8805	1	DRIVE SPRING
EB-8806	1	Hd. Spring Bolt or Screw
EB-8807	1	Shaft Spring Screw
MAB-1024F	1	Head Band Assembly
MAB-2040A	1	INTERMEDIATE BEARING ASSY.
MG-77A	1	Absorbent Bronze Brg.
PS-1143B	1	Pinion Housing Assembly
MAB-88	1	Dowel Pin
MP-41A	1	ABSORBENT BRONZE BRG.
X-715	1	#10-32x1 1/4 Rd. Hd. Screw
8X-794	1	#10-32 Square Nut
		1 2 3 4 5

(Issued 9-13-39)

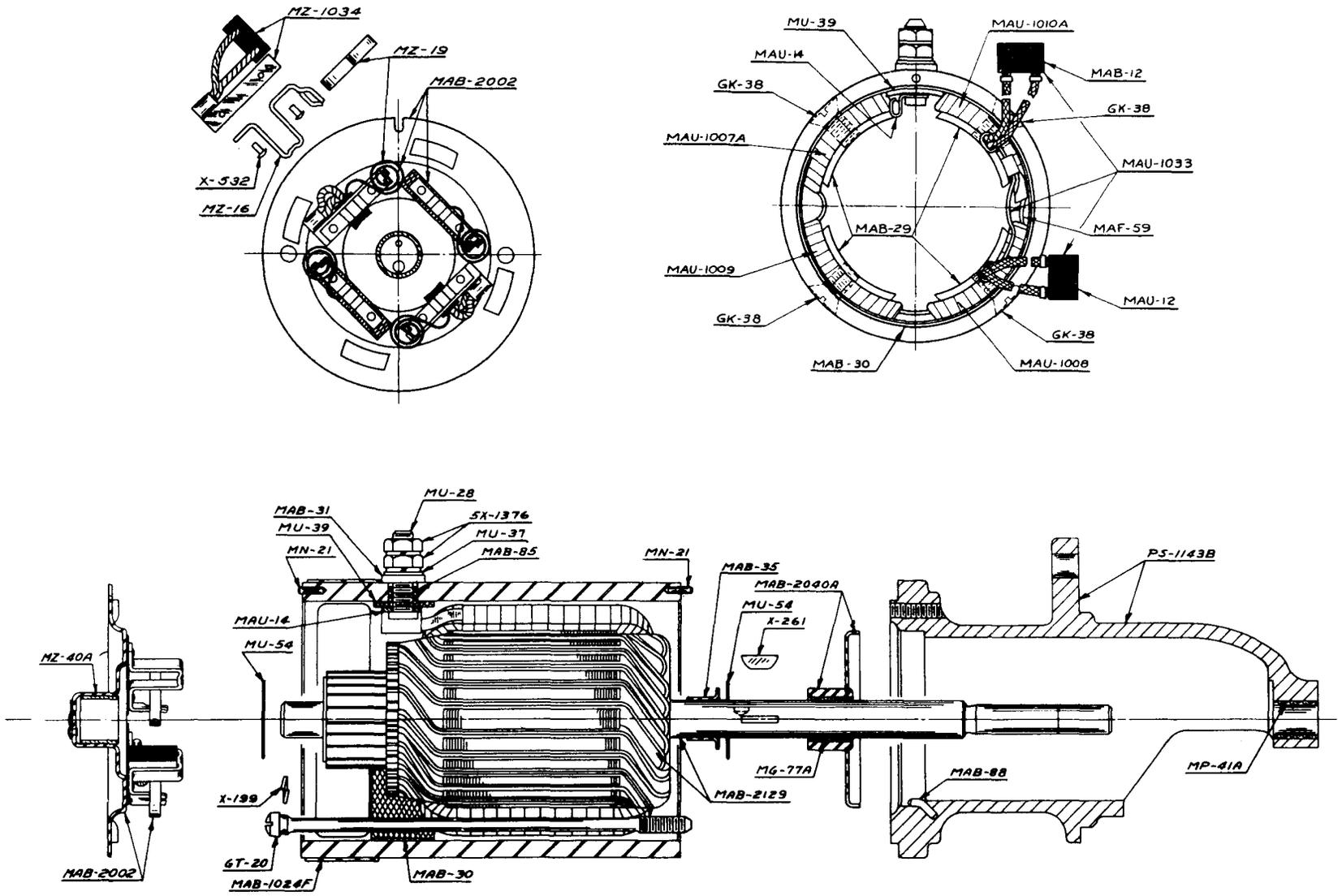
UNIT	APPLICATION
MAU-4025	S.K.F. Industries

Printed in U. S. A.

File in
Equipment & Parts List Binder

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

MAU-4025 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAU-4027 STARTING MOTOR PARTS LIST

MAU-4027
(Issued 1-29-52)

<u>Frame & Field Assembly & Parts Used With</u>			<u>Switch Assembly & Parts Used With</u>		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GT-20A	2	Bolt, Thru	SS-6L	1	Connector, Switch to Motor
MAU-2112	1	Frame & Field Assy.	SS-4003	1	SOLENOID STARTING SWITCH
GK-38	4	Screw, Pole Shoe	8X-173	1	Nut, Hex. #10-32
MAB-12†	1	Brush	12X-196	1	Lockwasher, #10
MAB-30	1	Insulation, Field Connection	8X-832	2	Nut, Hex. 5/16-24
MAB-31	1	Washer, Ins., Term. Stud, Outer	12X-1014	2	Lockwasher, 5/16
MAB-85	1	Bushing, Ins., Term. Stud	8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
MAU-12†	1	Brush	X-1270	2	Washer, Sw. Mtg. Sc., Skpf. #10
MAU-33	1	Connector	<u>Miscellaneous Parts</u>		
MAU-3005S	1	FIELD COIL PACKAGE	EBA-8	1	BENDIX DRIVE ASSEMBLY
MAF-59	1	Connector, Field Coil	EB-108	2	Lockwasher
MAU-1007A	1	Coil Assy., Field, U. L.	EB-7819S	1	Sleeve, Compression
MAB-65	1	Terminal	EB-8734	1	Spring, Take-Up
MAU-1008	1	Coil, Field, L. R.	EB-8803	1	Head, Drive
MAU-1009	1	Coil, Field, L. L.	EB-8805	1	SPRING, DRIVE
MAU-1010	1	Coil, Field, U. R.	EB-8806	1	Screw, Spring, Head
MN-21	2	Pin, Dowel	EB-8807	1	Screw, Spring, Shaft
MU-28	1	Stud, Terminal, 5/16-24	EBA-211	1	Shaft, & Pinion
MU-37	1	Washer, Plain, Term. Stud, 5/16	MAB-1024F	1	Band, Cover
MU-39	1	Washer, Ins., Term. Stud, Inner	MAB-2040	1	BEARING ASSY., INTERMEDIATE
12X-1014	2	Lockwasher, Term. Stud, 5/16	MG-77A	1	Bearing, Abs. Bronze
8X-1376	2	Nut, Term. Stud, Hex. 5/16-24	PS-1143	1	Housing Assy., Pinion
12X-199	2	Lockwasher, 1/4	MAB-88	1	Pin, Dowel
<u>Comm. End Head Assembly & Parts Used With</u>			MG-77A	1	BEARING, ABS. BRONZE
MAB-2002	1	Head Assy., Comm. End	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MZ-19	4	Spring, Brush	8X-794	1	Nut, Cover Band, Square #10-32
MZ-1034S†	2	Brush, Grounded	† BRUSH SET, SERVICE MAB-2012BS.		
<u>Armature Assembly & Parts Used With</u>					
MAB-2128	1	ARMATURE ASSY.			
MAB-35	1	Spacer, Bearing Thrust			
MU-54	2	Washer, Thrust, C. E. & Inter., 1/32" Thick			
X-261	1	Key, Woodruff, #6			

UNIT	APPLICATION
MAU-4027	Universal (Marine)

Printed in U. S. A.

File in
Equipment & Parts List Binder

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAU-4032 STARTING MOTOR PARTS LIST

MAU-4032

Frame & Field Assembly & Parts Used With			Switch Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
(MAU-3112)	1	Frame & Field Assy.	SS-6L	1	Connector
GK-38	4	Screw, Pole Shoe	SS-4308	1	SOLENOID STARTING SWITCH
MAB-12 †	1	Brush	X-196	1	Lockwasher, #10
MAB-30	1	Insulation, Field Connection	8X-832	2	Nut, Hex., 5/16-24
MAB-31	1	Washer, Ins., Term. Stud Outer	X-1014	2	Lockwasher, 5/16
MAB-85	1	Bushing, Ins., Term. Stud	8X-1372	1	Nut, Hex., #10-32
MAU-12 †	1	Brush	8X-321	2	Screw, Switch Mtg., Rd. Hd., #10-32x5/16
MAU-33	1	Connector	X-1270	2	Washer Sw. Mtg. Sc. Skpf. #10
MAU-3005S	1	FIELD COIL PACKAGE	<u>Miscellaneous Parts</u>		
MAF-59	1	Connector, Field Coil	MAB-1024E	1	Band, Cover
MAU-1007A	1	Coil Assy., Field, U.L.	8X-714	1	Screw, Cover Band, Rd. Hd., #10-32x1 1/2
MAB-65	1	Terminal	8X-794	1	Nut, Cover Band, Square #10-32
MAU-1008	1	Coil, Field, L-R.	† BRUSH SET, SERVICE MAB-2012BS.		
MAU-1009	1	Coil, Field, L.L.			
MAU-1010	1	Coil, Field, U.R.			
MN-21	2	Pin, Dowel			
MU-28	1	Stud, Terminal			
MU-37	1	Washer, Plain, Term. Stud 5/16			
MU-39	1	Washer, Ins., Term. Stud, Inner			
12 X-1014	2	Lockwasher, Term. Stud, 5/16			
8X-1376	2	Nut, Term. Stud, Hex., 5/16-24			
GT-20A	2	Bolt, Thru			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
<u>Comm. End Head Assembly & Parts Used With</u>					
MAB-3002	1	Head Assy., Comm. End			
MZ-19	4	Spring, Brush			
MZ-1034S †	2	Brush, Grounded			
<u>Armature Assembly & Parts Used With</u>					
MAB-2138	1	ARMATURE			
MU-54	1	Washer, Thrust, 1/32" Thick			

UNIT	APPLICATION
MAU-4032	Harnischfeger

(Issued 1-3-49)

Printed in U. S. A.

File in
Equipment & Parts List Binder

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAU-4034 STARTING MOTOR PARTS LIST

MAU-4034

(Issued 10-29-53)

Frame & Field Assembly & Parts Used With			Miscellaneous Parts		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GT-20A	2	Bolt, Thru	EBA-8	1	BENDIX DRIVE ASSEMBLY
MAU-2112	1	Frame & Field Assembly	EB-108	2	Lockwasher
GK-38	4	Screw, Pole Shoe	EB-7819S	1	Sleeve, Compression
MAB-12†	1	Brush	EB-8734	1	Ring, Take Up
MAB-30	1	Insulation, Field Connection	EB-8803	1	Head, Driving
MAB-31	1	Washer, Ins., Term. Stud, Outer	EB-8805	1	SPRING, DRIVE
MAB-85	1	Bushing, Ins., Term. Stud	EB-8806	1	Screw, Spring, Head
MAU-12†	1	Brush	EB-8807	1	Screw, Spring, Shaft
MAU-33	1	Connector	EBA-211	1	Shaft & Pinion
MAU-3005S	1	FIELD COIL PACKAGE	MAB-1024F	1	Band, Cover
MAF-59	1	Connector, Field Coil	MAB-2040	1	BEARING ASSY., INTERMEDIATE
MAU-1007A	1	Coil Assy., Field, U. L. Terminal	MG-77A	1	Bearing, Abs. Bronze
MAB-65	1	Coil, Field, L. R.	PS-1202	1	Housing Assy., Pinion
MAU-1008	1	Coil, Field, L. L.	MAB-88	1	Pin, Dowel
MAU-1009	1	Coil, Field, U. R.	MG-77A	1	BEARING ABS. BRONZE
MAU-1010	1	Pin, Dowel	X-489	1	Oiler
MN-21	2	Stud, Terminal	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MU-28	1	Washer, Plain, Term. Stud, 5/16	8X-794	1	Nut, Cover Band, Square #10-32
MU-37	1	Washer, Ins., Term. Stud, Inner			
MU-39	1	Lockwasher, Term. Stud, 5/16			
12X-1014	2	Nut, Term. Stud, Hex. 5/16-24			
8X-1376	2	Lockwasher, Thru Bolt, 1/4			
12X-199	2				
<u>Comm. End Head Assembly & Parts Used With</u>					
MAB-2002	1	Head Assy., Comm. End			
MZ-19	4	Spring, Brush			
MZ-1034S†	2	Brush, Grounded			
<u>Armature Assembly & Parts Used With</u>					
MAB-2128	1	ARMATURE ASSEMBLY			
MAB-35	1	Spacer, Bearing Thrust			
MU-54	2	Washer, Thrust, C. E. & Intermediate, 1/32" Thick			
X-261	1	Key, Woodruff, D. E., #6			
<u>Switch Assembly & Parts Used With</u>					
SS-6L	1	Connector			
SS-4003	1	SOLENOID STARTING SWITCH			
8X-173	1	Nut, Hex. #10-32			
12X-196	1	Lockwasher, #10			
8X-832	2	Nut, Hex. 5/16-24			
12X-1014	2	Lockwasher, 5/16			
8X-321	2	Screw, Switch Mfg., Rd. Hd. #10-32x5/16			
X-1270	2	Washer, Switch Mfg. Screw, Skpf. #10			

† BRUSH SET, SERVICE MAB-2012BS.

UNIT	APPLICATION
MAU-4034	Chris Craft Marine, Lathrop Marine

Printed in U. S. A.

File in
Equipment & Parts List Binder

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAU-4035 STARTING MOTOR PARTS LIST

MAU-4035

(Issued 10-29-53)

Frame & Field Assembly & Parts Used With			Miscellaneous Parts		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GT-20A	2	Bolt, Thru	EBA-9	1	BENDIX DRIVE ASSEMBLY
MAU-3112	1	Frame & Field Assembly	EB-108	2	Lockwasher
GK-38	4	Screw, Pole Shoe	EB-7819S	1	Sleeve, Compression
MAB-12†	1	Brush	EB-8734	1	Ring, Take Up
MAB-30	1	Insulation, Field Connection	EB-8803	1	Head, Drive
MAB-31	1	Washer, Ins., Term. Stud, Outer	EB-8806	1	Screw, Spring, Head
MAB-85	1	Bushing, Ins., Term. Stud	EB-8807	1	Screw, Spring, Shaft
MAU-12†	1	Brush	EB-9405	1	SPRING, DRIVE
MAU-33	1	Connector	EB-9911	1	Shaft & Pinion
MAU-3005S	1	FIELD COIL PACKAGE	MAB-1024F	1	Band, Cover
MAF-59	1	Connector, Field Coil	MAB-2040	1	BEARING ASSY., INTERMEDIATE
MAU-1007A	1	Coil Assy., Field, U. L. Terminal	MG-77A	1	Bearing, Abs. Bronze
MAB-65	1	Coil, Field, L. R.	PS-1202	1	Housing Assy., Pinion
MAU-1008	1	Coil, Field, L. L.	MAB-88	1	Pin, Dowel
MAU-1009	1	Coil, Field, U. R.	MG-77A	1	BEARING, ABS. BRONZE
MAU-1010	1	Pin, Dowel	X-489	1	Oiler
MN-21	2	Stud, Terminal	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MU-28	1	Washer, Plain, Term. Stud, 5/16	8X-794	1	Nut, Cover Band, Square #10-32
MU-37	1	Washer, Ins., Term. Stud, Inner			
MU-39	1	Lockwasher, Term. Stud, 5/16			
12X-1014	2	Nut, Term. Stud, Hex. 5/16-24			
8X-1376	2	Lockwasher, Thru Bolt, 1/4			
12X-199	2				
Comm. End Head Assembly & Parts Used With					
MAB-3002	1	Head Assy., Comm. End			
MZ-19	4	Spring, Brush			
MZ-1034S†	2	Brush, Grounded			
Armature Assembly & Parts Used With					
MAB-2128	1	ARMATURE ASSEMBLY			
MAB-35	1	Spacer, Bearing Thrust			
MU-54	2	Washer, Thrust, C. E. & Intermediate, 1/32" Thick			
X-261	1	Key, Woodruff, D. E., #6			
Switch Assembly & Parts Used With					
SS-6L	1	Connector			
SS-4003	1	SOLENOID STARTING SWITCH			
8X-173	1	Nut, Hex. #10-32			
12X-196	1	Lockwasher, #10			
8X-832	2	Nut, Hex. 5/16-24			
12X-1014	2	Lockwasher, 5/16			
8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16			
X-1270	2	Washer, Switch Mtg. Screw, Skpf. #10			

† BRUSH SET, SERVICE MAB-2012BS

UNIT	APPLICATION
MAU-4035	Chris Craft Marine, Lathrop Marine

Printed in U. S. A.

File in
Equipment & Parts List Binder

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAU-4036 STARTING MOTOR PARTS LIST

MAU-4036

Frame & Field Assembly & Parts Used With			Switch Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GT-20A	2	Bolt, Thru	SS-6L	1	Connector
(MAU-3112)	1	Frame & Field Assy.	SS-4003	1	SWITCH, SOLENOID
GK-38	4	Screw, Pole Shoe	12X-196	1	Lockwasher, #10
MAB-12 †	1	Brush	8X-832	2	Nut, Hex., 5/16-24
MAB-30	1	Insulation, Field Connection	12X-1014	2	Lockwasher, 5/16
MAB-31	1	Washer, Ins., Term. Stud, Outer	8X-173	1	Nut, Hex., #10-32
MAB-85	1	Bushing, Ins., Term. Stud	8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
MAU-12 †	1	Brush	X-1270	2	Washer, Switch Mtg., Sc., Skpf. #10
MAU-33	1	Connector			
MAU-3005S	1	FIELD COIL PACKAGE			
MAF-59	1	Connector, Field Coil			
MAU-1007A	1	Coil Assy., Field, U.L.			
MAB-65	1	Terminal			
MAU-1008	1	Coil, Field, L.R.			
MAU-1009	1	Coil, Field, L.L.			
MAU-1010	1	Coil, Field, U.R.			
MN-21	2	Pin, Dowel			
MU-28	1	Stud, Terminal			
MU-37	1	Washer, Plain, Term. Stud, 5/16			
MU-39	1	Washer, Ins., Term. Stud, Inner			
12X-1014	2	Lockwasher, Term. Stud, 5/16			
8X-1376	2	Nut, Term. Stud, Hex., 5/16-24			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
Comm. End Head Assembly & Parts Used With			Miscellaneous Parts		
MAB-3002	1	Head Assy., Comm. End	EBA-9	1	BENDIX DRIVE ASSY.
MZ-19	4	Spring, Brush	EB-108	2	Lockwasher
MZ-1034S†	2	Brush, Grounded	EB-7819S	1	Sleeve, Compression
Armature Assembly & Parts Used With			EB-8734	1	Ring, Take-Up
MAB-2128	1	ARMATURE ASSY.	EB-8803	1	Head, Driving
MAB-35	1	Spacer, Bearing Thrust	EB-8806	1	Screw, Spring, Head
MU-54	2	Washer, Thrust, 1/32" Thick	EB-8807	1	Screw, Spring, Shaft
X-261	1	Key, Woodruff, #6	EB-9405	1	SPRING, DRIVE
			EB-9911	1	Shaft & Pinion
			MAB-1024F	1	Band, Cover
			MAB-2040	1	BEARING ASSY., INTERMEDIATE
			MG-77A	1	Bearing, Abs. Bronze
			PS-1040D	1	Housing Assy., Pinion
			MAB-88	1	Pin, Dowel
			MG-77A	1	BEARING, ABS. BRONZE
			X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
			8X-794	1	Nut, Cover Band, Square #10-32

† BRUSH SET, SERVICE MAB-2012BS.

UNIT	APPLICATION
MAU-4036	Atlas Diesel

Printed in U. S. A.

(Issued 1-3-49)

File in
Equipment & Parts List Binder

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAU-4040 STARTING MOTOR PARTS LIST

MAU-4040

Frame & Field Assembly & Parts Used With			Miscellaneous Parts		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
(MAU-3144)	1	Frame & Field Assy	EB-83	1	BENDIX DRIVE ASSY.
GK-38	4	Screw, Pole Shoe	MAD-1154	1	Bearing Assy., Intermediate
MAB-12†	1	Brush	MG-77A	1	BEARING, ABS. BRONZE
MAB-30	1	Insulation, Field Conn.	ML-18A	1	BEARING, ABS. BRONZE
MAB-31	1	Washer, Ins., Term. Stud, Outer	MAH-15	1	Shaft, Drive, Bendix
MAB-85	1	Bushing, Ins., Term. Stud	MAU-34	1	Spacer, Bendix Shaft
MAU-12†	1	Brush	MAW-24	1	Band, Cover
MAU-33	1	Connector	MN-1	1	Retainer, Felt Washer
MAU-3005S	1	FIELD COIL PACKAGE	MN-6	1	Gear
MAF-59	1	Connector, Field Coil	MN-19	1	Washer, Felt
MAU-1007A	1	Coil Assy., Field, U.L.	PS-1099	1	Housing Assy., Pinion
MAB-65	1	Terminal	MN-21	1	Pin, Dowel
MAU-1008	1	Coil, Field, L.R.	MP-41A	1	BEARING, ABS. BRONZE
MAU-1009	1	Coil, Field, L.L.	8X-89	4	Screw, Housing, Hex. Hd. 1/4-20x1
MAU-1010	1	Coil, Field, U.R.	12X-196	3	Lockwasher, Retainer Sc. #10
MN-21	2	Pin, Dowel	12X-199	4	Lockwasher, Housing Screw 1/4
MU-28	1	Stud, Terminal	8X-312	3	Screw, Retainer, Rd. Hd. #10-32x1/4
MU-37	1	Washer, Plain, Term. Stud, 5/16	8X-505	1	Plug Pipe, 1/8
MU-39	1	Washer, Ins., Term. Stud, Inner	X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1/2
X-1014	2	Lockwasher, Term. Stud, 5/16	8X-794	1	Nut, Cover Band, Square #10-32
5X-1376	2	Nut, Term. Stud, Hex. 5/16-24			
MW-20A	2	Bolt, Thru			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
Comm. End Head Assembly & Parts Used With					
MAB-3002	1	Head Assy., Comm. End			
MZ-19	4	Spring, Brush			
MZ-1034S†	2	Brush, Grounded			
Armature Assembly & Parts Used With					
MAB-2115	1	ARMATURE			
MU-54	1	Washer, Thrust, 1/32" Thick			
X-261	2	Key, Woodruff #6			

† BRUSH SET, SERVICE MAB-2912BS.

UNIT	APPLICATION
MAU-4040	Southern Coach

(Issued 10-19-49)

"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

MAU-4041 STARTING MOTOR PARTS LIST

MAU-4041

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GT-20A	2	Bolt, Thru
(MAU-2112)	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAB-12 †	1	Brush
MAB-30	1	Insulation, Field Connection
MAB-31	1	Washer, Ins., Term. Stud, Outer
MAB-85	1	Bushing, Ins., Term. Stud
MAU-12 †	1	Brush
MAU-33	1	Connector
MAU-3005S	1	FIELD COIL PACKAGE
MAF-59	1	Connector, Field Coil
MAU-1007A	1	Coil Assy., Field, U.L.
MAB-65	1	Terminal
MAU-1008	1	Coil, Field, L.R.
MAU-1009	1	Coil, Field, L.L.
MAU-1010	1	Coil, Field, U.R.
MN-21	2	Pin, Dowel
MU-28	1	Stud, Terminal, 5/16-24
MU-37	1	Washer, Plain, Term. Stud, 5/16
MU-39	1	Washer, Ins., Term. Stud, Inner
12X-1014	2	Lockwasher, Term. Stud, 5/16
8X-1376	2	Nut, Term. Stud, Hex. 5/16-24
12X-199	2	Lockwasher, Thru Bolt, 1/4

Comm. End Head Assembly & Parts Used With

MAB-2002C	1	Head Assy., Comm. End
MAD-110	1	Felt
MZ-19	4	Spring, Brush
MZ-1034S†	2	Brush, Grounded

Armature Assembly & Parts Used With

MAH-2006	1	ARMATURE ASSY.
MAB-35	1	Spacer, Bearing Thrust
MU-54	2	Washer, Thrust, 1/32" Thick
X-261	1	Key, Woodruff, #6

Switch Assembly & Parts Used With

Part No.	No. Used	Name of Part
SS-6R	1	Connector, Switch to Motor
SS-4003	1	SWITCH, SOLENOID
8X-173	1	Nut, Hex. #10-32
12X-196	1	Lockwasher, #10
8X-832	2	Nut, Hex. 5/16-24
12X-1014	2	Lockwasher, 5/16
8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
X-1270	2	Washer, Switch Mtg. Sc., Skpf. #10

Miscellaneous Parts

EB-92	1	BENDIX DRIVE ASSY.
EB-108	2	Lockwasher
EB-7819S	1	Sleeve, Compression
EB-8734	1	Ring, Take-Up
EB-8803	1	Head, Driving
EB-8805	1	SPRING, DRIVE
EB-8806	1	Screw, Spring, Head
EB-8807	1	Screw, Spring, Shaft
EB-9211	1	Shaft & Pinion
MAB-2040	1	BEARING ASSY., INTERMEDIATE
MG-77A	1	Bearing, Abs. Bronze
MAU-1024	1	Band, Cover
PS-1147A	1	Housing Assy., Pinion
MAB-88	1	Pin, Dowel
MG-77A	1	BEARING, ABS. BRONZE
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32

† BRUSH SET, SERVICE MAB-2012BS.

UNIT	APPLICATION
MAU-4041	Hercules

(Issued 1-9-50)

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File in
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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAU-4042 STARTING MOTOR PARTS LIST

MAU-4042
(Issued 2-13-52)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GT-20A	2	Bolt, Thru
MAU-2112	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAB-12†	1	Brush
MAB-30	1	Insulation, Field Connection
MAB-31	1	Washer, Ins., Term. Stud, Outer
MAB-85	1	Bushing, Ins., Term. Stud
MAU-12†	1	Brush
MAU-33	1	Connector
MAU-3005S	1	FIELD COIL PACKAGE
MAF-59	1	Connector, Field Coil
MAU-1007A	1	Coil Assy., Field, U. L.
MAB-65	1	Terminal
MAU-1008	1	Coil, Field, L. R.
MAU-1009	1	Coil, Field, L. L.
MAU-1010	1	Coil, Field, U. R.
MN-21	2	Pin, Dowel
MU-28	1	Stud, Terminal
MU-37	1	Washer, Plain, Term. Stud
MU-39	1	Washer, Ins., Term. Stud, Inner
12X-1014	2	Lockwasher, Term. Stud, 5/16
8X-1376	2	Nut, Term. Stud, Hex. 5/16-24
12X-199	2	Lockwasher, Thru Bolt, 1/4

Comm. End Head Assembly & Parts Used With

MAB-2002	1	Head Assy., Comm. End
MZ-19	4	Spring, Brush
MZ-1034S†	2	Brush, Grounded

Armature Assembly & Parts Used With

MAB-2006	1	ARMATURE ASSY.
MAB-35	1	Spacer, Bearing Thrust
MU-54	2	Washer, Thrust, C. E. & Inter., 1/32" Thick
X-261	1	Key, Woodruff, D. E., #6

Switch Assembly & Parts Used With

Part No.	No. Used	Name of Part
SS-6L	1	Connector, Switch to Motor
SS-4003	1	SWITCH, SOLENOID STARTING
8X-173	1	Nut, Hex. #10-32
12X-196	1	Lockwasher, #10
8X-832	2	Nut, Hex. 5/16-24
12X-1014	2	Lockwasher, 5/16
8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
X-1270	2	Washer, Switch Mtg. Sc., Skpf. #10

Miscellaneous Parts

EBA-2	1	BENDIX DRIVE ASSY.
EB-108	2	Lockwasher
EB-7806	1	Screw, Spring, Head
EB-7807	1	Screw, Spring, Shaft
EB-7819S	1	Sleeve, Compression
EB-8503	1	Head, Drive
EB-8705	1	SPRING, DRIVE
EB-8734	1	Ring, Take-Up
EBA-211	1	Shaft & Pinion
MAB-1024F	1	Band, Cover
MAB-2040	1	BEARING ASSY., INTERMEDIATE
MG-77A	1	Bearing, Abs. Bronze
PS-1139B	1	Housing Assy., Pinion
MAB-88	1	Pin, Dowel
MG-77A	1	BEARING, ABS. BRONZE
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32

† BRUSH SET, SERVICE MAB-2012BS.

UNIT	APPLICATION
MAU-4042	Clinton Machine Co.

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



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAU-4043 STARTING MOTOR PARTS LIST

MAU-4043
(Issued 2-22-52)

Frame & Field Assembly & Parts Used With			Switch Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GT-20A	2	Bolt, Thru	SS-6L	1	Connector
MAU-3112	1	Frame & Field Assy.	SS-4003	1	SWITCH, SOLENOID
GK-38	4	Screw, Pole Shoe	8X-173	1	Nut, Hex. #10-32
MAB-12†	1	Brush	12X-196	1	Lockwasher, #10
MAB-30	1	Insulation, Field Connection	8X-832	2	Nut, Hex. 5/16-24
MAB-31	1	Washer, Ins., Term. Stud, Outer	12X-1014	2	Lockwasher, 5/16
MAB-85	1	Bushing, Ins., Term. Stud	8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
MAU-12†	1	Brush	X-1270	2	Washer, Switch Mtg. Sc., Skpf. #10
MAU-33	1	Connector			
MAU-3005S	1	FIELD COIL PACKAGE			
MAF-59	1	Connector, Field Coil			
MAU-1007A	1	Coil Assy., Field, U. L.			
MAB-65	1	Terminal			
MAU-1008	1	Coil, Field, L. R.			
MAU-1009	1	Coil, Field, L. L.			
MAU-1010	1	Coil, Field, U. R.			
MN-21	2	Pin, Dowel			
MU-28	1	Stud, Terminal			
MU-37	1	Washer, Plain, Term. Stud, 5/16			
MU-39	1	Washer, Ins., Term. Stud, Inner			
12X-1014	2	Lockwasher, Term. Stud, 5/16			
8X-1376	2	Nut, Term. Stud, Hex. 5/16-24			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
Comm. End Head Assembly & Parts Used With					
MAB-3002	1	Head Assy., Comm. End			
MZ-19	4	Spring, Brush			
MZ-1034S†	2	Brush, Grounded			
Armature Assembly & Parts Used With					
MAB-2006	1	ARMATURE ASSY.			
MAB-35	1	Spacer, Bearing Thrust			
MU-54	2	Washer, Thrust, C. E. & Intermediate, 1/32" Thick			
X-261	1	Key, Woodruff, D. E., #6			

Miscellaneous Parts		
EB-99	1	BENDIX DRIVE ASSY.
EB-108	2	Lockwasher
EB-7805	1	SPRING, DRIVE
EB-7806	1	Screw, Spring, Head
EB-7807	1	Screw, Spring, Shaft
EB-7819S	1	Sleeve, Compression
EB-8503	1	Head, Driving
EB-8734	1	Ring, Take-Up
EB-9911	1	Shaft & Pinion
MAB-1024F	1	Band, Cover
MAB-2040	1	BEARING ASSY., INTERMEDIATE
MG-77A	1	Bearing, Abs. Bronze
PS-1139B	1	Housing Assy., Pinion
MAB-88	1	Pin, Dowel
MG-77A	1	BEARING, ABS. BRONZE
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32

† BRUSH SET, SERVICE MAB-2012BS.

UNIT	APPLICATION
MAU-4043	Nordberg

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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

MAU-4045 STARTING MOTOR PARTS LIST

MAU-4045
(Issued 2-4-54)

Frame & Field Assembly & Parts Used With			Switch Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GT-20A	2	Bolt, Thru	SS-6R	1	Connector
MAU-2112	1	Frame & Field Assy.	SS-4003	1	SWITCH, SOLENOID STARTING
GK-38	4	Screw, Pole Shoe	8X-173	1	Nut, Hex. #10-32
MAB-12†	1	Brush	12X-196	1	Lockwasher, #10
MAB-30	1	Insulation, Field Connection	8X-832	2	Nut, Hex. 5/16-24
MAB-31	1	Washer, Ins. , Term. Stud, Outer	12X-1014	2	Lockwasher, 5/16
MAB-85	1	Bushing, Ins. , Term. Stud	8X-321	2	Screw, Switch Mtg. , Rd. Hd. #10-32x5/16
MAU-12†	1	Brush	X-1270	2	Washer, Switch Mtg. Sc. , Skpf. #10
MAU-33	1	Connector			
MAU-3005S	1	FIELD COIL PACKAGE			
MAF-59	1	Connector, Field Coil			
MAU-1007A	1	Coil Assy. , Field, U. L.			
MAB-65	1	Terminal			
MAU-1008	1	Coil, Field, L. R.			
MAU-1009	1	Coil, Field, L. L.			
MAU-1010	1	Coil, Field, U. R.			
MN-21	2	Pin, Dowel			
MU-28	1	Stud, Terminal			
MU-37	1	Washer, Plain, Term. Stud, 5/16			
MU-39	1	Washer, Ins. , Term. Stud, Inner			
12X-1014	2	Lockwasher, Term. Stud, 5/16			
8X-1376	2	Nut, Term. Stud, Hex. 5/16-24			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
Comm. End Head Assembly & Parts Used With			Miscellaneous Parts		
MAB-2002C	1	Head Assy. , Comm. End	EBA-8	1	BENDIX DRIVE ASSY.
MAD-110	1	Felt	EB-108	2	Lockwasher
MZ-19	4	Spring, Brush	EB-7819S	1	Sleeve, Compression
MZ-1034S†	2	Brush, Grounded	EB-8734	1	Ring, Take-Up
Armature Assembly & Parts Used With			EB-8803	1	Head, Drive
MAH-2006	1	ARMATURE ASSY.	EB-8805	1	SPRING, DRIVE
MAB-35	1	Spacer, Bearing Thrust	EB-8806	1	Screw, Spring, Head
MU-54	2	Washer, Thrust, C. E. & Intermediate, 1/32" Thick	EB-8807	1	Screw Spring, Shaft
X-261	1	Key, Woodruff, D. E. , #6	EBA-211	1	Shaft & Pinion
			MAB-2040	1	BEARING ASSY. , INTERMEDIATE
			MG-77A	1	Bearing, Abs. Bronze
			MAU-1024	1	Band, Cover
			PS-1147A	1	Housing Assy. , Pinion
			MAB-88	1	Pin, Dowel
			MG-77A	1	BEARING, ABS. BRONZE
			8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
			8X-794	1	Nut, Cover Band, Square #10-32

† BRUSH SET, SERVICE MAB-2012BS.

UNIT	APPLICATION
MAU-4045	Diamond T

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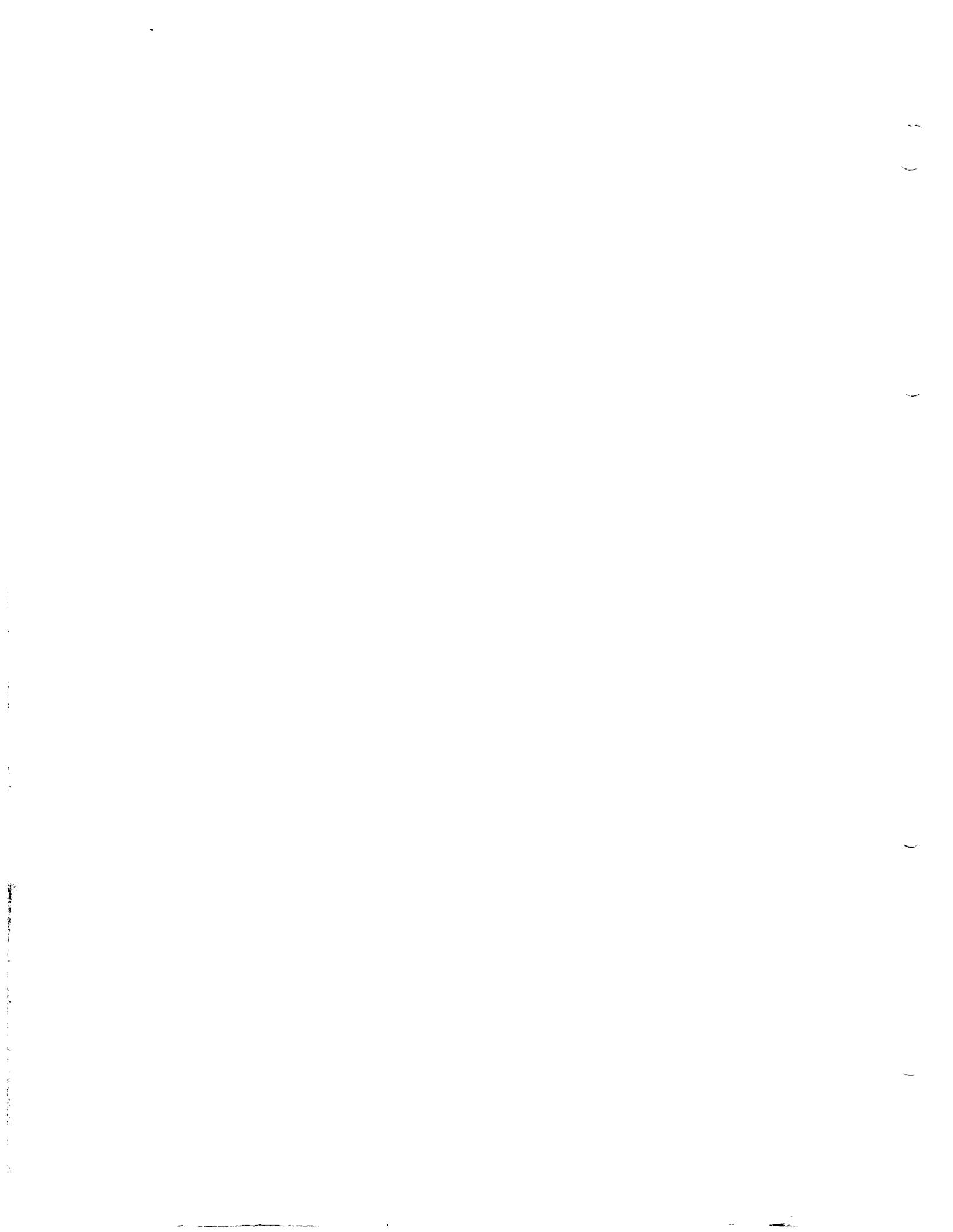
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1

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3



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4001 STARTING MOTOR PARTS LIST

MAW-4001

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
GJ-20	2	Frame Screw					
(MAW-2001)	1	Frame & Field Assy.					
GK-38	4	Pole Piece Screw					
MAB-31	1	Insulating Washer					
MAB-85	1	Insulating Bushing					
MAK-80	1	Insulating Washer					
MAT-28	1	Terminal Post					
MAT-30	1	Field Connection Ins.					
MAW-13	2	Brush Assy. - Grounded					
MAW-29	4	Pole Piece					
MAW-59	1	Equalizer					
MAW-1009A	1	Field Coil Assy.-Left					
MAW-12	1	Brush					
MAW-1010A	1	Field Coil Assy.-Right					
MAW-12	1	Brush					
MN-21	2	Dowel Pin					
MU-37	1	5/16 Plain Washer					
8X-61	2	#10-32x7/16 Flat Hd. Sc.					
X-1014	1	5/16 Lock Washer					
5X-1376	1	5/16-24 Hex. Nut					
X-199	2	1/4 Lock Washer					
X-1014	1	5/16 Lock Washer					
5X-1376	1	5/16-24 Hex. Nut					

Comm. End Plate Assembly & Parts Used With

MAW-2002	1	Comm. End Plate Assy.					
MAD-110	1	Felt Pad					
MZ-19	4	Brush Spring					
X-390	1	Oiler - 1/4 Hinged Top					
			1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAK-61	1	5/8 Steel Washer					
MAW-2006	1	Armature Assembly					
MAB-35	1	Brg. Thrust Spacer					
MU-54	2	Thrust Washer					
X-261	1	#6 Woodruff Key					
<u>Miscellaneous Parts</u>							
EBA-12	1	Bendix Drive Assy.					
MAB-1024	1	Head Band Assembly					
MAB-2040A	1	Intermediate Brg. Assy.					
MG-77A	1	Absorbent Bronze Brg.					
PS-1118	1	Pinion Housing Assy.					
MAB-88	1	Dowel Pin					
MG-77A	1	Absorbent Bronze Brg.					
X-715	1	#10-32x1 1/4 Rd. Hd. Sc.					
8X-794	1	#10-32 Square Nut					
			1	2	3	4	5

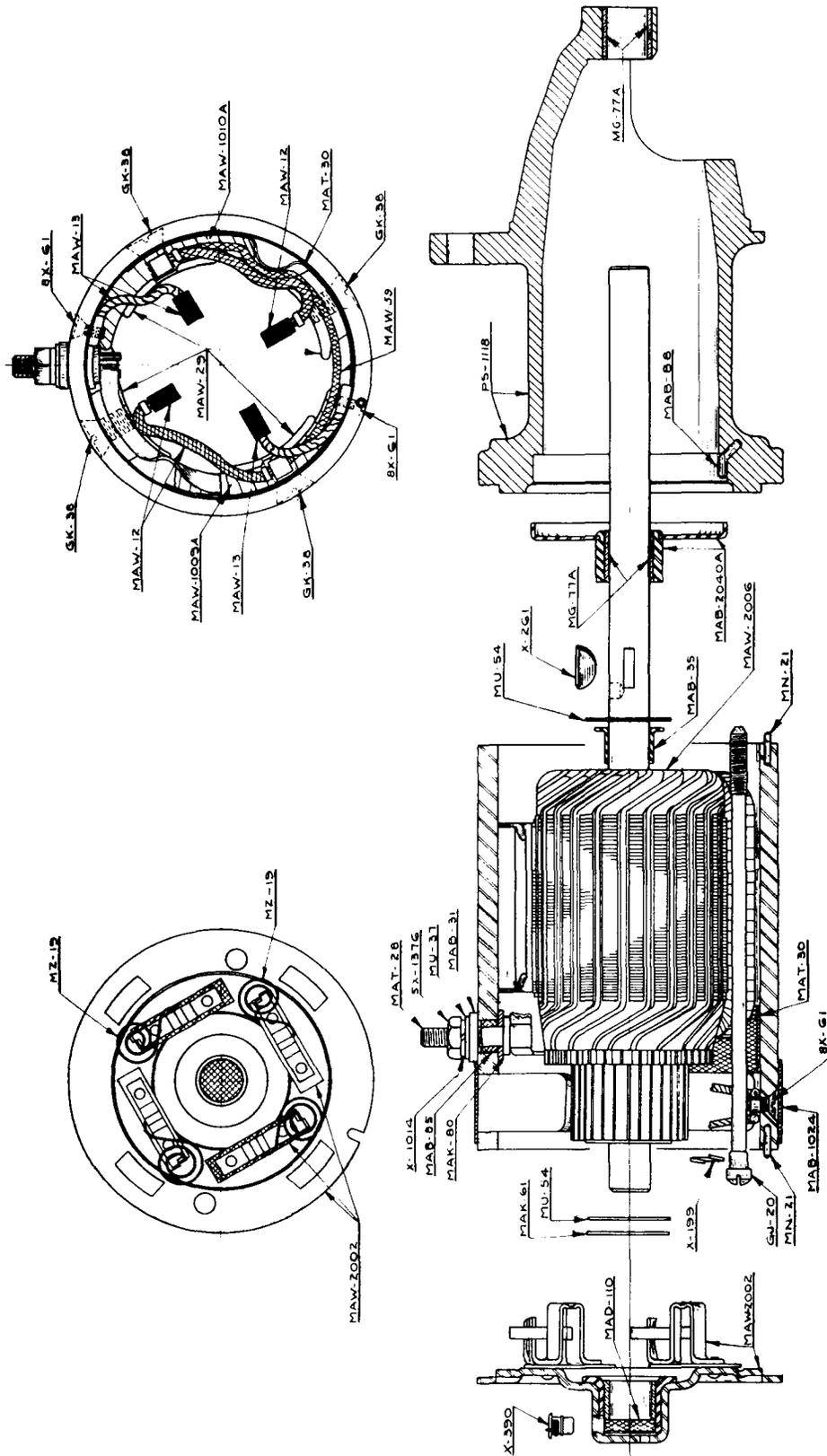
(Issued 10-26-36)

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MAW-4001 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4002 STARTING MOTOR PARTS LIST

MAW-4002

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
(MAW-2036)	1	Frame & Field Assy.					
DK-45	1	Ins. Washer					
GK-38	4	Pole Piece Screw					
MAT-30	1	Field Connection Ins.					
MAW-13	2	Brush Assy. - Grounded					
MAW-29	4	Pole Piece					
MAW-35	1	Terminal Post					
MAW-37	1	Ins. Bushing					
MAW-39	1	Ins. Block					
MAW-51	1	Terminal Post Ins.					
MAW-58	1	Equalizer					
MAW-1009BS	1	Field Coil Assy. - Left					
MAW-12	1	Brush					
MAW-1010BS	1	Field Coil Assy. - Right					
MAW-12	1	Brush					
MN-21	2	Dowel Pin					
SW-763	1	Switch Contact - Lower					
8X-61	2	#10-32x7/16 Flat Hd. Sc.					
8X-830	1	3/8-16 Hex. Nut					
MW-20A	2	Frame Screw					
12X-199	2	1/4 Lock Washer					

Comm. End Plate Assembly & Parts Used With

MAW-2002A	1	Comm. End Plate Assy.
MAD-110	1	Felt Pad
MZ-19	4	Brush Spring
X-390	1	Oiler - 1/4 Hinged Top

Armature Assembly & Parts Used With

MAD-96	1	Thrust Washer
MAW-2030	1	Armature Assembly
MAW-31	1	Armature Shaft Spacer
MU-54	*	Thrust Washer - 1/32" Thick
MU-54A	*	Thrust Washer - 1/64" Thick
MU-54B	*	Thrust Washer - 3/64" Thick
		1 2 3 4 5

Switch Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
SW-2677A	1	Starting Switch Assy.					
12X-201	1	3/8 Lock Washer					
8X-830	1	3/8-16 Hex. Nut					
8X-321	2	#10-32x5/16 Rd. Hd. Screw					
X-1270	2	#10 Skpf. Washer					

Starter Clutch Assembly & Parts Used With

MAD-3099	1	Starter Clutch Assy.
MAW-33	1	Pivot Screw
MAW-2048	1	Yoke Assembly
8X-179	1	3/8-16 Hex. Nut
12X-201	1	3/8 Lock Washer

Miscellaneous Parts

MAW-24	1	Head Band
MN-18	1	Thrust Washer
PS-1090S	1	Pinion Housing Assy.
MP-41A	1	Absorbent Bronze Brg.
8X-715	1	#10-32x1 1/4 Rd. Hd. Screw
8X-794	1	#10-32 Square Nut
		1 2 3 4 5

(Issued 8-16-40)

Unit	Application
MAW-4002	Dodge, Dodge Truck, Plymouth

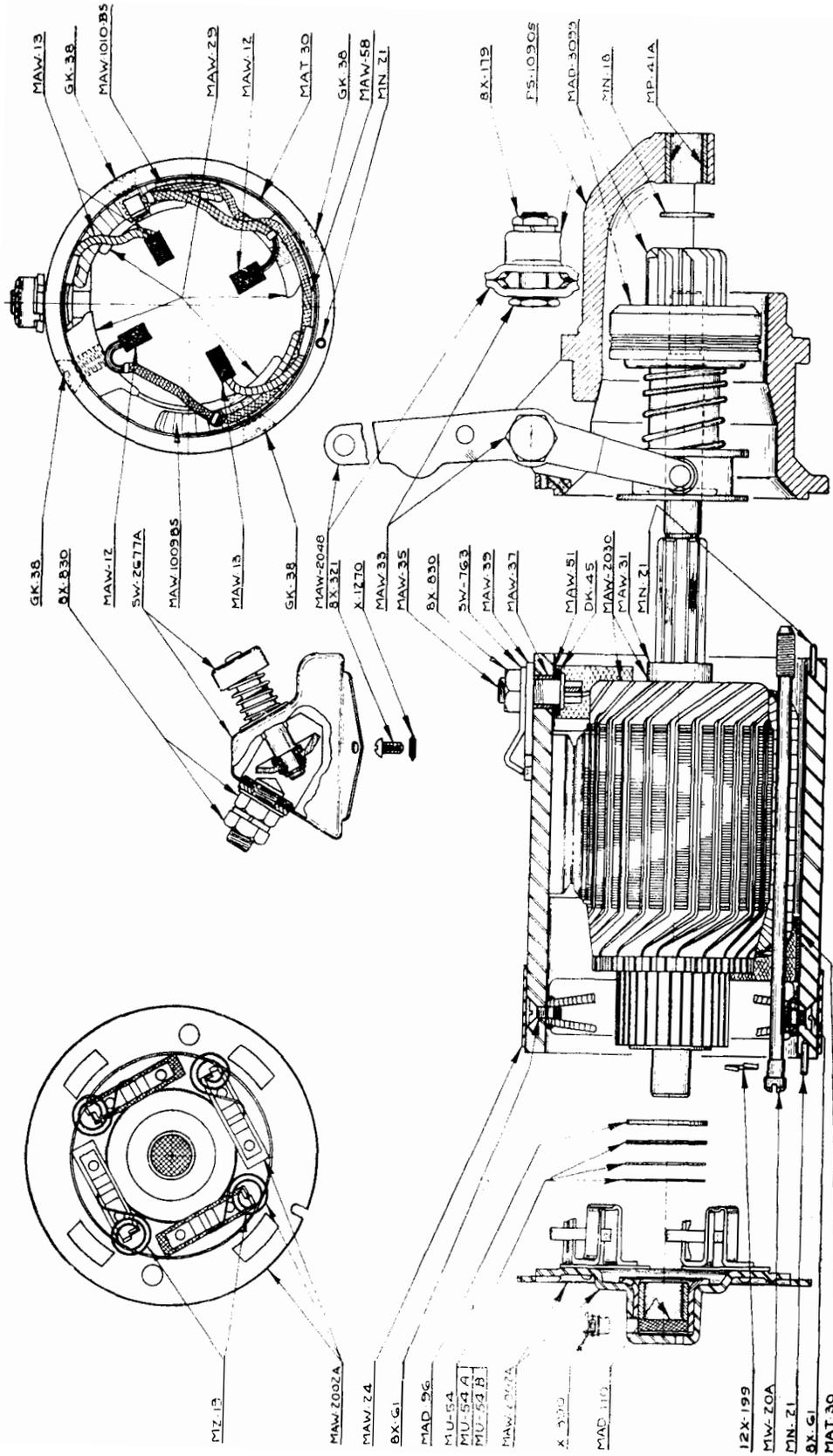
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MAW-4002 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4003 STARTING MOTOR PARTS LIST

MAW-4003

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
(MAW-2036A)	1	Frame & Field Assy.					
DK-45	1	Insulating Washer					
GK-38B	4	Pole Piece Screw					
MAT-30	1	Field Connection Ins.					
MAW-13	2	Brush Assy. - Grounded					
MAW-29	4	Pole Piece					
MAW-35	1	Terminal Post					
MAW-37	1	Insulating Bushing					
MAW-39	1	Insulating Block					
MAW-51	1	Term. Post Insulation					
MAW-58	1	Equalizer					
MAW-1009BS	1	Field Coil Assy. - Left					
MAW-12	1	Brush					
MAW-1010BS	1	Field Coil Assy. - Right					
MAW-12	1	Brush					
MN-21	2	Dowel Pin					
SW-764	1	Switch Contact - Lower					
8X-61	2	#10-32x7/16 Flat Hd. Sc.					
8X-830	1	3/8-16 Hex. Nut					
MW-20A	2	Frame Screw					
12X-199	2	1/4 Lock Washer					

Comm. End Plate Assembly & Parts Used With

MAW-2002A	1	Comm. End Plate Assy.
MAD-110	1	Felt Pad
MZ-19	4	Brush Spring
X-390	1	Oiler - 1/4 Hinged Top

Armature Assembly & Parts Used With

MAD-96	1	Thrust Washer
MAW-2030	1	Armature Assembly
MAW-31	1	Armature Shaft Spacer
MU-54	*	Thrust Washer - 1/32" Thick
MU-54A	*	Thrust Washer - 1/64" Thick
MU-54B	*	Thrust Washer - 3/64" Thick
		1 2 3 4 5

* Use as required.

Switch Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
SW-2813	1	Starting Switch Assembly					
12X-201	1	3/8 Lock Washer					
8X-830	1	3/8-16 Hex. Nut					
8X-321	2	#10-32x5/16 Rd. Hd. Screw					
X-1270	2	#10 Skpf. Washer					

Starter Clutch Assembly & Parts Used With

MAD-3099	1	Starter Clutch Assy.
MAD-102	1	Shift Collar
MAD-105	1	Shift Spring
MAD-106	1	Lock Spring Ring
MAW-33	1	Pivot Screw
MAW-2048	1	Yoke Assembly
8X-179	1	3/8-16 Hex. Nut
12X-201	1	3/8 Lock Washer

Miscellaneous Parts

MAW-24	1	Head Band
MN-18	1	Thrust Washer
PS-1090S	1	Pinion Housing Assy.
MP-41A	1	Absorbent Bronze Erg.
8X-715	1	#10-32x1 1/4 Rd. Hd. Screw
8X-794	1	#10-32 Square Nut
		1 2 3 4 5

(Issued 6-11-36)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4005 STARTING MOTOR PARTS LIST

MAW-4005

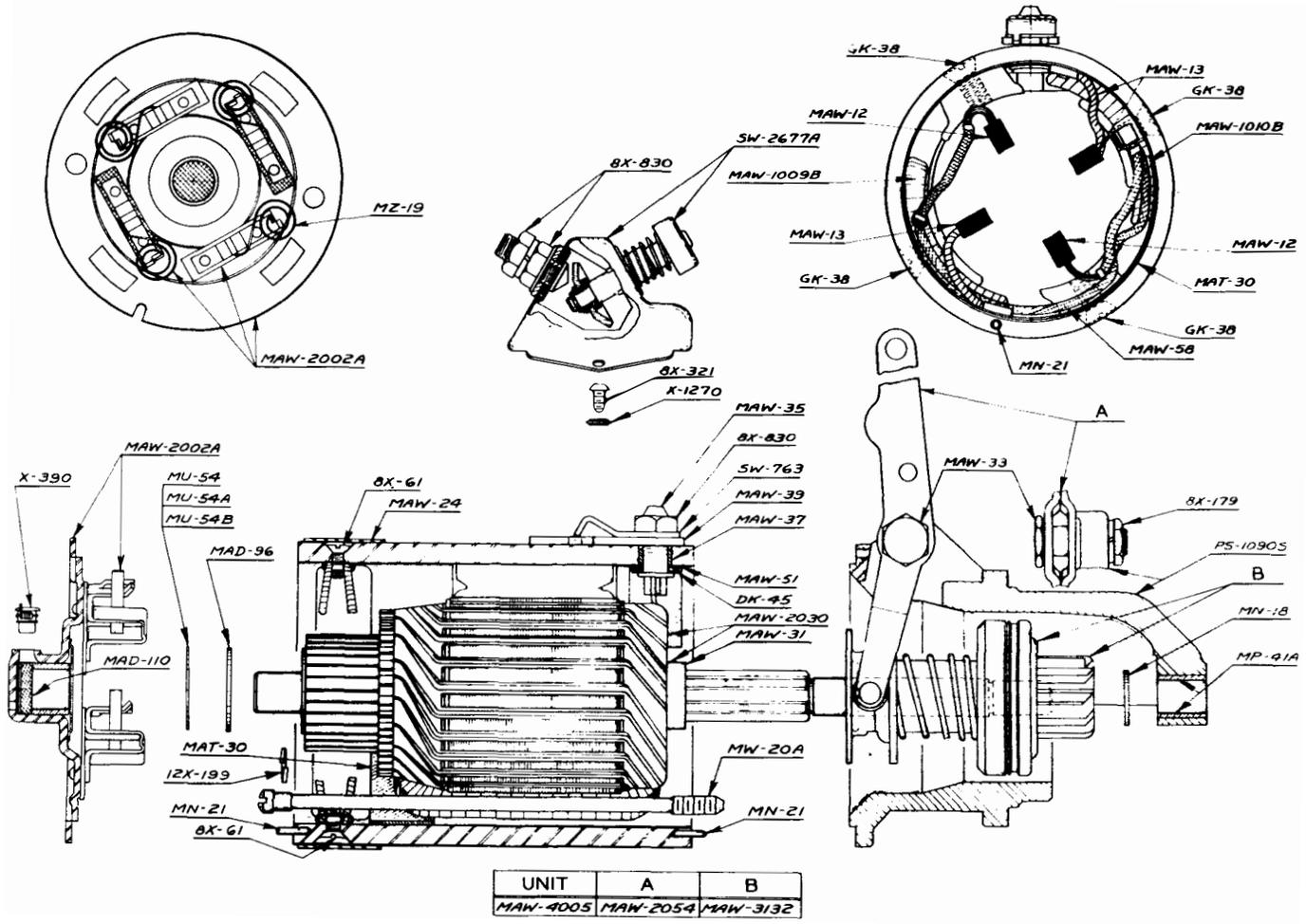
Frame & Field Assembly With Terminal Stud & Parts Used With					Starter Clutch Assembly & Parts Used With								
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
(MAW-2036)	1	Frame & Field Assy.					MAW-33	1	Screw, Pivot				
DK-45	1	Washer, Ins., Term. Stud					MAW-2054	1	Yoke				
GK-38	4	Screw, Pole Shoe					MAW-3132	1	Starter Clutch				
MAT-30	1	Insulation, Field Connection					8X-179	1	Nut, Yoke Pin, Hex., 3/8-16				
MAW-12‡	2	Brush					12X-201	1	Washer, Lock, Yoke Pin, 3/8				
MAW-13‡	2	Brush, Grounded					Miscellaneous Parts						
MAW-35	1	Stud, Terminal					MAW-24	1	Band, Cover				
MAW-37	1	Bushing, Ins., Term. Stud					MN-18	1	Washer, Thrust, D.E.				
MAW-39	1	Insulation Block					PS-1090S	1	Housing Assy., Pinion				
MAW-51	1	Insulation, Term. Stud					MP-41A	1	Bearing, Absorbent Bronze				
MAW-58	1	Equalizer					8X-715	1	Screw, Cover Band, Rd. hd., #10-32x1 1/4				
MAW-1009B	1	Coil, Field, Left					8X-794	1	Nut, Cover Band, Square, #10-32				
MAW-1010B	1	Coil, Field, Right							1	2	3	4	5
MN-21	2	Pin, Dowel					(Issued 3-6-44)						
SW-763	1	Contact, Switch Lower											
8X-61	2	Screw, Brush Ground, Flat hd., #10-32x7/16											
8X-830	1	Nut, Term. Stud, Hex., 3/8-16											
MW-20A	2	Bolt, Thru											
12X-199	2	Washer, Lock, Thru Bolt, 1/4											
Comm. End Head Assembly & Parts Used With													
MAW-2002A	1	Head Assy., Comm. End											
MAD-110	1	Felt											
MZ-19	4	Spring, Brush											
X-390	1	Oiler											
Armature Assembly & Parts Used With													
MAD-96	1	Washer, Thrust											
MAW-2030	1	Armature Assy.											
MAW-31	1	Spacer, Armature Shaft											
MU-54	*	Washer, Thrust, 1/32" thick											
MU-54A	*	Washer, Thrust, 1/64" thick											
MU-54B	*	Washer, Thrust, 3/64" thick											
Switch Assembly & Parts Used With													
SW-2677A	1	Switch, Starting											
12X-201	1	Washer, Lock, 3/8											
8X-830	1	Nut, Hex., 3/8-16											
8X-321	2	Screw, Mtg. Switch, Rd. hd., #10-32x5/16											
X-1270	2	Washer, Skpf., Switch Mtg. Sc., #10											
		1	2	3	4	5							

‡ Brush Set, Service, MAW-2012S.

* Use as required.

"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."

MAW-4005 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4006 STARTING MOTOR PARTS LIST

MAW-4006

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
(MAW-2057)	1	Frame & Field Assy.					
DK-45	1	Insulating Washer					
GK-38B	4	Pole Piece Screw					
MAW-13	2	Brush Assy. - Grounded					
MAW-28	1	Terminal Post					
MAW-29	4	Pole Piece					
MAW-37	1	Insulating Bushing					
MAW-53	1	Field Connection Ins.					
MAW-59	1	Equalizer					
MAW-1009A	1	Field Coil Assy. - Left					
MAW-12	1	Brush					
MAW-1010A	1	Field Coil Assy. - Right					
MAW-12	1	Brush					
MAX-35	1	Insulating Washer					
MAX-44	1	3/8 Steel Washer					
MN-21	2	Dowel Pin					
8X-61	2	#10-32x7/16 Flat Hd. Sc.					
12X-201	1	3/8 Lock Washer					
8X-830	1	3/8-16 Hex. Nut					
MW-20A	2	Frame Screw					
12X-199	2	1/4 Lock Washer					
12X-201	1	3/8 Lock Washer					
8X-830	1	3/8-16 Hex. Nut					

Comm. End Plate Assembly & Parts Used With

MAW-2002A	1	Comm. End Plate Assy.					
MAD-110	1	Felt Pad					
MZ-19	4	Brush Spring					
X-390	1	Oiler - 1/4 Hinged Top					
			1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAK-61	1	5/8 Steel Washer					
MAW-2064	1	Armature Assembly					
MN-18	1	Thrust Washer					
MU-54	1	Thrust Washer					
X-261	1	#6 Woodruff Key					

Miscellaneous Parts

EBA-2	1	Bendix Drive Assembly					
MAW-24	1	Head Band					
PS-1100	1	Pinion Housing Assy.					
MP-41A	1	Absorbent Bronze Prg.					
8X-715	1	#10-32x1 1/4 Rd. Hd. Screw					
8X-794	1	#10-32 Square Nut					
			1	2	3	4	5

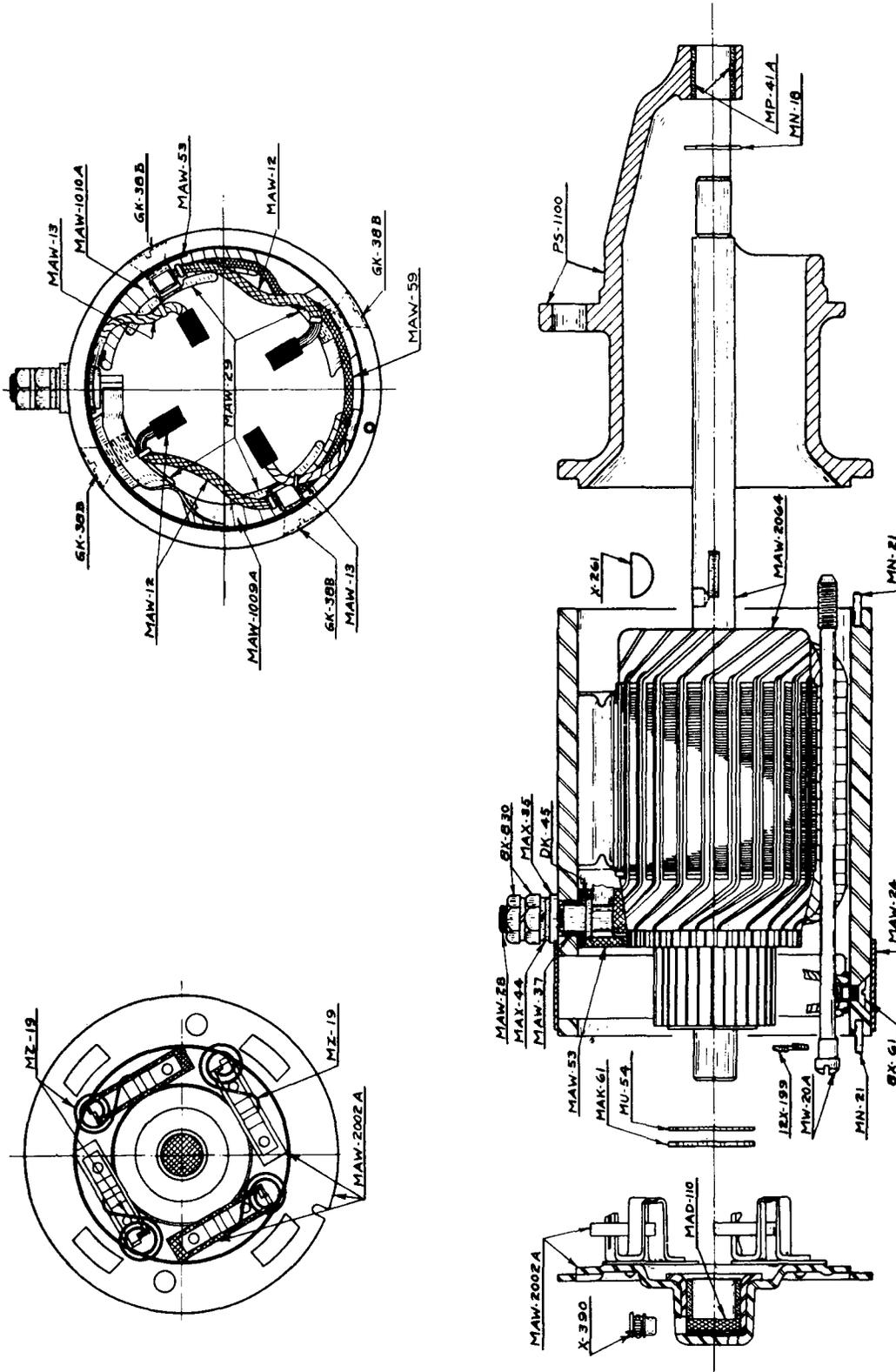
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"NOTE: Where part number are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

MAW-4006 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4007,A STARTING MOTOR PARTS LIST

MAW-4007,A
(Issued 3-9-51)

<u>Frame & Field Assembly & Parts Used With</u>			<u>Miscellaneous Parts</u>		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
(MAW-3065)	1	Frame & Field Assy.	EB-99A	1	BENDIX DRIVE ASSY.
DK-45	1	Washer, Ins., Term. Stud, Inner	EB-108A	2	Lockwasher
GK-38	4	Screw, Pole Shoe	EB-7805A	1	SPRING, DRIVE
MAT-30	1	Insulation, Field Connection	EB-7806A	1	Screw, Spring, Head
MAW-13 †	2	Brush, Grounded	EB-7807A	1	Screw, Spring, Shaft
MAW-28	1	Stud, Terminal	EB-7819SA	1	Sleeve, Compression
MAW-37	1	Bushing, Ins., Term. Stud	EB-8503A	1	Head, Drive
MAW-59	1	Equalizer	EB-8734A	1	Ring, Take-Up
MAW-3005S	1	FIELD COIL PACKAGE	EB-9911A	1	Shaft & Pinion
MAW-1009	1	Coil, Field, Left	MAW-24	1	Band, Cover
MAW-1010	1	Coil, Field, Right	MN-18	1	Washer, Thrust, D.E.
MAX-35	1	Washer, Ins., Term. Stud, Outer	PS-1100	1	Housing Assy., Pinion
MAX-44	1	Washer, Term. Stud, 3/8	MP-41A	1	BEARING, ABS. BRONZE
MAY-12A †	2	Brush	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MN-21	2	Pin, Dowel	8X-794	1	Nut, Cover Band, Square #10-32
8X-61	2	Screw, Brush Ground, Flat Hd. #10-32x7/16			
12X-201	2	Lockwasher, Term. Stud, 3/8			
8X-830	2	Nut, Term. Stud, Hex. 3/8-16			
MW-20A	2	Bolt, Thru			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
<u>Comm. End Head Assembly & Parts Used With</u>					
MAW-3002	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
<u>Armature Assembly & Parts Used With</u>					
MAK-61	1	Washer, Thrust, Comm. End			
MAW-2064	1	ARMATURE			
MU-54	1	Washer, Thrust, C.E., 1/32" Thick			
X-261	1	Key, Woodruff, #6			
<u>Switch Assembly & Parts Used With</u>					
MAW-167R	1	Connector			
MU-37D	1	Washer, Plain, Switch Term., 5/16			
SSP-4001M	1	SWITCH, SOLENOID			
12X-196	1	Lockwasher, #10			
12X-1014	2	Lockwasher, 5/16			
8X-2843	2	Nut, Hex. 5/16-24			
8X-2853	1	Nut, Hex. #10-32			
8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16			
X-1270	2	Washer, Switch Mtg. Sc., Skpf. #10			

† BRUSH SET, SERVICE MAY-2012AS.

UNIT	APPLICATION
MAW-4007	Chrysler (Marine)
MAW-4007A	Gray (Marine)

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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

MAW-4007M STARTING MOTOR PARTS LIST

MAW-4007M

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
(MAW-3065A)	1	Frame & Field Assembly					
GK-38C	4	Screw, Pole Shoe					
MAT-30	1	Insulation, Field Conn.					
MAW-12†	2	Brush					
MAW-13†	2	Brush, Grounded					
MAW-28A	1	Stud, Terminal					
MAW-37A	1	Bushing, Ins., Term. Stud					
MAW-59	1	Equalizer					
MAW-1009	1	Coil, Field, Left					
MAW-1010	1	Coil, Field, Right					
MAX-35	1	Washer, Ins., Term. Stud, Outer					
MN-21A	2	Pin, Dowel					
MN-47B	1	Washer, Plain, Term. Stud, 3/8					
WSE-41	1	Washer, Ins., Term. Stud, Inner					
12X-201	2	Lockwasher, Term. Stud, 3/8					
8X-2845	2	Nut, Term. Stud, Hex. 3/8-16					
8X-2889	2	Screw, Brush Ground, Flat Hd. #10-32x7/16					
MN-20C	2	Bolt, Thru					
12X-199	2	Lockwasher, Thru Bolt, 1/4					

Comm. End Head Assembly & Parts Used With

MAW-3002C	1	Head Assy., Comm. End
MAD-110	1	Felt
MZ-19A	4	Spring, Brush

Armature Assembly & Parts Used With

MAK-61A	1	Washer, Arm. Thrust, Comm. End
MAW-2064M	1	ARMATURE ASSY.
MU-54	1	Washer, Thrust, 1/32" thick
X-261	1	Key, Woodruff, #6

Switch Assembly & Parts Used With

MAW-167R	1	Connector
MU-37G	1	Washer, Plain, Sw. Term., 5/16
SSP-4001M	1	SWITCH, SOLENOID
12X-196	1	Lockwasher, #10
12X-1014	2	Lockwasher, 5/16
8X-2843	2	Nut, Hex. 5/16-24
8X-2853	1	Nut, Hex. #10-32
X-20	2	Screw, Switch Mtg. Rd. Hd. #10-32x5/16
X-1270	2	Washer, Switch Mtg., Skpf. #10
		1 2 3 4 5

Miscellaneous Parts

Part No.	No. Used	Name of Part					
			1	2	3	4	5
EB-99A	1	BENDIX DRIVE ASSY.					
EB-108A	2	Lockwasher					
EB-7805A	1	SPRING, DRIVE					
EB-7806A	1	Screw, Spring, Head					
EB-7807A	1	Screw, Spring, Shaft					
EB-7819SA	1	Sleeve, Compression					
EB-8503A	1	Head, Drive					
EB-8734A	1	Ring, Take Up					
EB-9911A	1	Shaft & Pinion					
MAB-1024N	1	Band, Cover					
MN-18	1	Washer, Thrust, D.E.					
PS-1100B	1	Housing Assy., Pinion					
MP-41A	1	BEARING, ABSORBENT BRONZE					
X-2873	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/4					
X-2875	1	Nut, Cover Band, Square #10-32					
		1 2 3 4 5					

† Brush Set, Service MAW-2012S

NOTE: - Part numbers shown in parenthesis are not recommended for service.

UNIT	APPLICATION
MAW-4007M	Chrysler (Marine)

(Issued 1-19-48)

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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

MAW-4008,A STARTING MOTOR PARTS LIST

MAW-4008,A
(Issued 3-9-51)

Frame & Field Assembly & Parts Used With			Miscellaneous Parts		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
(MAW-2065)	1	Frame & Field Assy.	EBA-2A	1	BENDIX DRIVE ASSY.
DK-45	1	Washer, Ins., Term. Stud, Inner	EB-108A	2	Lockwasher
GK-38	4	Screw, Pole Shoe	EB-7806A	1	Screw, Spring, Head
MAT-30	1	Insulation, Field Connection	EB-7807A	1	Screw, Spring, Shaft
MAW-12 †	2	Brush, Insulated	EB-7819SA	1	Sleeve, Compression
MAW-13 †	2	Brush, Grounded	EB-8503A	1	Head, Drive
MAW-28	1	Stud, Terminal	EB-8705A	1	SPRING, DRIVE
MAW-37	1	Bushing, Ins., Term. Stud	EB-8734A	1	Ring, Take-Up
MAW-59	1	Equalizer	EBA-211A	1	Shaft & Pinion
MAW-3005S	1	FIELD COIL PACKAGE	MAW-24	1	Band, Cover
MAW-1009	1	Coil, Field, Left	MN-18	1	Washer, Thrust, D.E.
MAW-1010	1	Coil, Field, Right	PS-1100	1	Housing Assy., Pinion
MAX-35	1	Washer, Ins., Term. Stud, Outer	MP-41A	1	BEARING, ABS. BRONZE
MAX-44	1	Washer, Term. Stud, 3/8	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MN-21	2	Pin, Dowel	8X-794	1	Nut, Cover Band, Square #10-32
8X-61	2	Screw, Brush Ground, Flat Hd. #10-32x7/16			
12X-201	2	Lockwasher, Term. Stud, 3/8			
8X-830	2	Nut, Term. Stud, Hex. 3/8-16			
MW-20A	2	Bolt, Thru			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
Comm. End Head Assembly & Parts Used With					
MAW-2002F	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
Armature Assembly & Parts Used With					
MAK-61	1	Washer, Thrust, Comm. End			
MAW-2064	1	ARMATURE			
MU-54	1	Washer, Thrust, C.E., 1/32" Thick			
X-261	1	Key, Woodruff, #6			
Switch Assembly & Parts Used With					
MAW-167R	1	Connector			
MU-37D	1	Washer, Plain, Switch Term., 5/16			
SSP-4001M	1	SWITCH, SOLENOID			
12X-196	1	Lockwasher, #10			
12X-1014	2	Lockwasher, 5/16			
8X-2843	2	Nut, Hex. 5/16-24			
8X-2853	1	Nut, Hex. #10-32			
8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16			
X-1270	2	Washer, Switch Mtg. Sc., Skpf. #10			

† BRUSH SET, SERVICE MAW-2012S.

UNIT	APPLICATION
MAW-4008	Chrysler (Marine) Hobart Bros., Massey Harris
MAW-4008A	Gray (Marine)

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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

MAW-4008M STARTING MOTOR PARTS LIST

MAW-4008M

Frame & Field Assembly with Terminal Stud & Parts Used With					Miscellaneous Parts				
Part No.	No. Used	Name of Part			Part No.	No. Used	Name of Part		
		1	2	3 4 5			1	2 3 4 5	
(MAW-2065A)	1	Frame & Field Assy.			EBA-2A	1	BENDIX DRIVE ASSY.		
GK-38C	4	Screw, Pole Shoe			EB-108A	2	Lockwasher		
MAT-30	1	Insulation, Field Connection			EB-7806A	1	Screw, Spring, Head		
MAW-12 †	2	Brush			EB-7807A	1	Screw, Spring, Shaft		
MAW-13 †	2	Brush, Grounded			EB-7819SA	1	Sleeve, Compression		
MAW-28A	1	Stud, Terminal			EB-8503A	1	Head, Drive		
MAW-37A	1	Bushing, Ins., Term. Stud			EB-8705A	1	SPRING, DRIVE		
MAW-59	1	Equalizer			EB-8734A	1	Ring, Take up		
MAW-1009	1	Coil, Field, Left			EBA-211A	1	Shaft & Pinion		
MAW-1010	1	Coil, Field, Right			MAB-1024N	1	Band, Cover		
MAX-35	1	Washer, Ins., Term. Stud, Outer			MN-18	1	Washer, Thrust, D.E.		
MN-21A	2	Pin, Dowel			PS-1100B	1	Housing Assy., Pinion		
MN-47B	1	Washer, Term. Stud, Plain 3/8			MP-41A	1	BEARING, ABS. BRONZE		
WSE-41	1	Washer, Ins., Term. Stud, Inner			8X-2873	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/4		
12X-201	2	Lockwasher, Term. Stud, 3/8			8X-2875	1	Nut, Cover Band, Square #10-32		
8X-2845	2	Nut, Term. Stud, Hex. 3/8-16					1	2 3 4 5	
8X-2889	2	Screw, Brush Ground, Flat Hd. #10-32x7/16							
MW-20C	2	Bolt, Thru							
12X-199	2	Lockwasher, Thru Bolt, 1/4							
Comm. End Head Assembly & Parts Used With									
MAW-2002E	1	Head Assy., Comm. End							
MAD-110	1	Felt							
MZ-19A	4	Spring, Brush							
Armature Assembly & Parts Used With									
MAK-61A	1	Washer, Arm. Thrust, C.E.							
MAW-2064M	1	ARMATURE							
MU-54	1	Washer, Thrust							
X-261	1	Key, Woodruff, #6							
Switch Assembly & Parts Used With									
MAW-167R	1	Connector							
MU-37G	1	Washer, Plain, 5/16							
SSP-4001M	1	SWITCH, SOLENOID							
12X-196	1	Lockwasher, #10							
12X-1014	2	Lockwasher, 5/16							
8X-2843	2	Nut, Hex. 5/16-24							
8X-2853	1	Nut, Hex. #10-32							
8X-20	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16							
X-1270	2	Washer, Switch Mtg., Skpf. #10							
		1	2	3 4 5					

† BRUSH SET, SERVICE, MAW-2012S.

UNIT	APPLICATION
MAW-4008M	Chrysler Marine

(Issued 1-23-48)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4009 STARTING MOTOR PARTS LIST

MAW-4009

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
(MAW-2C88)	1	Frame & Field Assembly					
DK-45	1	Ins. Washer					
GK-38B	4	Pole Piece Screw					
MAT-30	1	Field Connection Ins.					
MAW-13	2	Brush Assy. - Grounded					
MAW-29	4	Pole Piece					
MAW-35	1	Terminal Post					
MAW-37	1	Ins. Bushing					
MAW-39	1	Insulating Block					
MAW-51	1	Field Connection Ins.					
MAW-58	1	Equalizer					
MAW-1009BS	1	Field Coil Assy.- Left					
MAW-12	1	Brush					
MAW-1010BS	1	Field Coil Assy.-Right					
MAW-12	1	Brush					
MN-21	2	Dowel Pin					
SW-763	1	Switch Contact - Lower					
8X-61	2	#10-32x7/16 Flat Hd. Sc.					
8X-830	1	3/8-16 Hex. Nut					
MAX-45	1	Bracket					
MW-20A	2	Frame Screw					
12X-199	2	1/4 Lock Washer					
8X-467	2	1/4-20x3/8 Hex. Hd. Sc.					
X-1272	2	1/4 Skpf. Washer					

Comm. End Plate Assembly & Parts Used With

MAW-2002A	1	Comm. End Plate Assembly
MAD-110	1	Felt Pad
MZ-19	4	Brush Spring
X-390	1	Oiler - 1/4 Hinged Top

Armature Assembly & Parts Used With

MAD-96	1	Thrust Washer
MAW-2030	1	Armature Assembly
MAW-31	1	Armature Shaft Spacer
MU-54	*	Thrust Washer - 1/32" Thick
MU-54A	*	Thrust Washer - 1/64" Thick
MU-54B	*	Thrust Washer - 3/64" Thick
		1 2 3 4 5

Switch Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
SW-2677A	1	Starting Switch Assembly					
12X-201	1	3/8 Lock Washer					
8X-830	1	3/8-16 Hex. Nut					
8X-321	2	#10-32x5/16 Rd. Hd. Screw					
X-1270	2	#10 Skpf. Washer					

Starter Clutch Assembly & Parts Used With

MAD-3099	1	Starter Clutch Assembly
MAD-102	1	Shift Collar
MAD-105	1	Shift Spring
MAD-106	1	Lock Spring Ring
MAW-33	1	Pivot Screw
MAW-2089	1	Yoke Assembly
8X-179	1	3/8-16 Hex. Nut
12X-201	1	3/8 Lock Washer

Miscellaneous Parts

MAW-24	1	Head Band
MN-18	1	Thrust Washer
PS-1090S	1	Pinion Housing Assy.
MP-41A	1	Absorbent Bronze Brg.
8X-715	1	#10-32x1 1/4 Rd. Hd. Sc.
8X-794	1	#10-32 Square Nut
		1 2 3 4 5

(Issued 10-7-37)

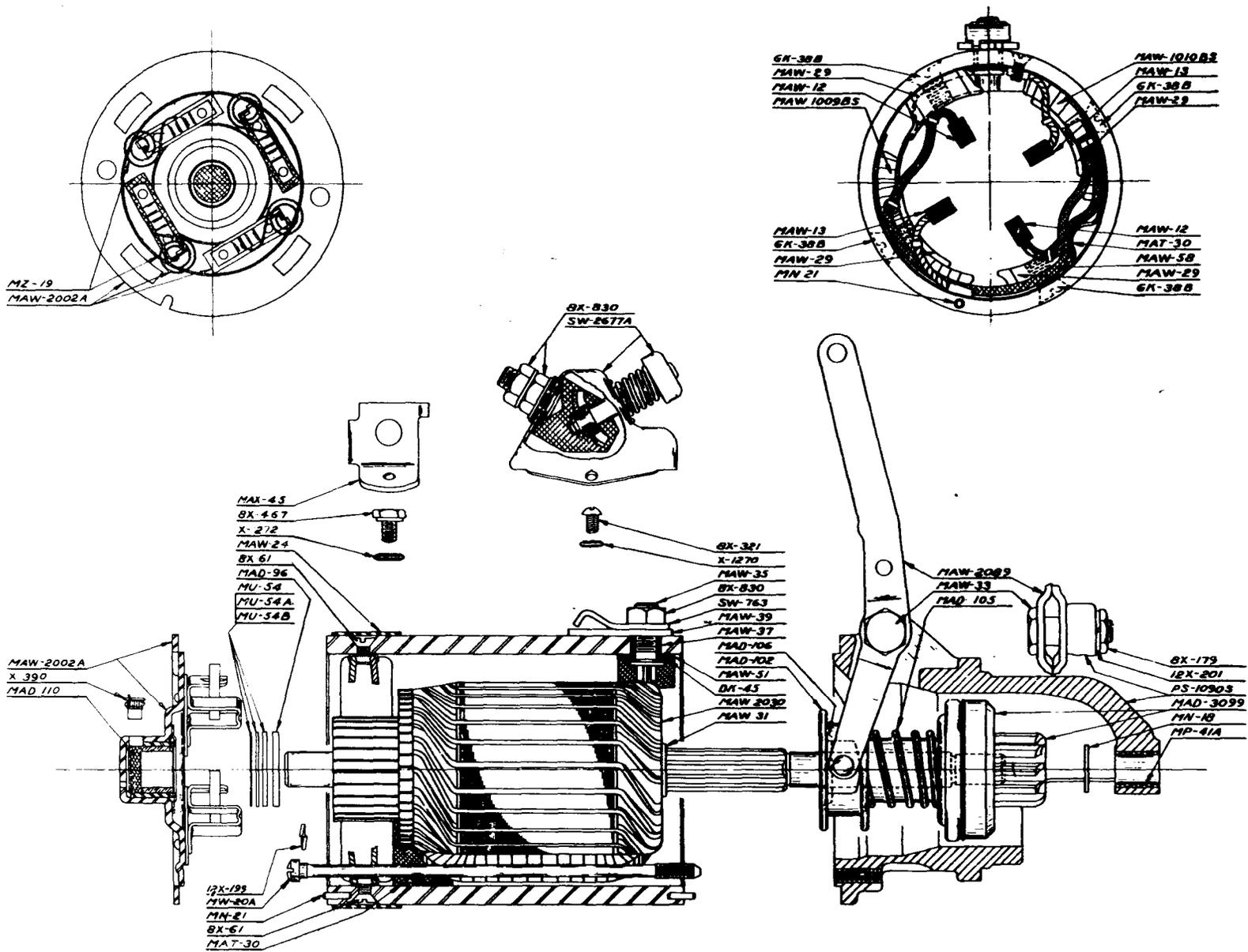
* Used as required.

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MAW-4009 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4010 STARTING MOTOR PARTS LIST

MAW-4010

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
(MAW-2088A)	1	Frame & Field Assembly					
DK-45	1	Ins. Washer					
GK-38B	4	Pole Piece Screw					
MAT-30	1	Field Connection Ins.					
MAW-13	2	Brush Assy. - Grounded					
MAW-29	4	Pole Piece					
MAW-35	1	Terminal Post					
MAW-37	1	Ins. Bushing					
MAW-39	1	Insulating Block					
MAW-51	1	Field Connection Ins.					
MAW-58	1	Equalizer					
MAW-1009BS	1	Field Coil Assy.-Left					
MAW-12	1	Brush					
MAW-1010BS	1	Field Coil Assy.-Right					
MAW-12	1	Brush					
MN-21	2	Dowel Pin					
SW-764	1	Switch Contact - Lower					
8X-61	2	#10-32x7/16 Flat Hd. Sc.					
8X-830	1	3/8-16 Hex Nut					
MAX-45	1	Bracket					
MW-20A	2	Frame Screw					
12X-199	2	1/4 Lock Washer					
8X-467	2	1/4-20x3/8 Hex. Hd. Screw					
X-1272	2	1/4 Skpf. Washer					

Comm. End Plate Assembly & Parts Used With

MAW-2002A	1	Comm. End Plate Assembly
MAD-110	1	Felt Pad
MZ-19	4	Brush Spring
X-390	1	Oiler - 1/4 Hinged Top

Armature Assembly & Parts Used With

MAD-96	1	Thrust Washer
MAW-2030	1	Armature Assembly
MAW-31	1	Armature Shaft Spacer
MU-54	*	Thrust Washer - 1/32" Thick
MU-54A	*	Thrust Washer - 1/64" Thick
MU-54B	*	Thrust Washer - 3/64" Thick
		1 2 3 4 5

* Used as required.

Switch Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
SW-2813	1	Starting Switch Assy.					
12X-201	1	3/8 Lock Washer					
8X-830	1	3/8-16 Hex. Nut					
8X-321	2	#10-32x5/16 Rd. Hd. Sc.					
X-1270	2	#10 Skpf. Washer					

Starter Clutch Assembly & Parts Used With

MAD-3099	1	Starter Clutch Assembly
MAD-102	1	Shift Collar
MAD-105	1	Shift Spring
MAD-106	1	Lock Spring Ring
MAW-33	1	Pivot Screw
MAW-2089	1	Yoke Assembly
8X-179	1	3/8-16 Hex. Nut
12X-201	1	3/8 Lock Washer

Miscellaneous Parts

MAW-24	1	Head Band
MN-18	1	Thrust Washer
PS-1090S	1	Pinion Housing Assy.
MP-41A	1	Absorbent Bronze Brg.
8X-715	1	#10-32x1 1/4 Rd. Hd. Sc.
8X-794	1	#10-32 Square Nut
		1 2 3 4 5

(Issued 10-7-37)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4013,A,B STARTING MOTOR PARTS LIST

MAW-4013,A,B

PRELIMINARY

Frame & Field Assembly With Terminal Post & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
(MAW-2036)	1	Frame & Field Assembly				
DK-45	1	Insulating Washer				
GK-38	4	Pole Piece Screw				
MAT-30	1	Field Connection Ins.				
MAW-131	2	Brush Assy.- Grounded				
MAW-29	4	Pole Piece				
MAW-35	1	Terminal Post				
MAW-37	1	Insulating Bushing				
MAW-39	1	Insulating Block				
MAW-51	1	Terminal Post Ins.				
MAW-58	1	Equalizer				
MAW-1009BS	1	Field Coil Assy.-Left				
MAW-121	1	Brush				
MAW-1010BS	1	Field Coil Assy.-Right				
MAW-121	1	Brush				
MN-21	2	Dowel Pin				
SW-763	1	Switch Contact - Lower				
8X-61	2	#10-32x7/16 Flat Hd. Sc.				
8X-830	1	3/8-16 Hex. Nut				
MW-20A	2	Frame Screw				
12X-199	2	1/4 Lock Washer				

Comm. End Plate Assembly & Parts Used With

MAW-2002A	1	Comm. End Plate Assembly				
MAD-110	1	Felt Pad				
MZ-19	4	Brush Spring				
X-390	1	Oiler - 1/4 Hinged Top				

Armature Assembly & Parts Used With

MAD-96	1	Thrust Washer				
MAW-2030	1	ARMATURE ASSEMBLY				
MAW-31	1	Armature Shaft Spacer				
MU-54	*	Thrust Washer - 1/32" Thick				
MU-54A	*	Thrust Washer - 1/64" Thick				
MU-54B	*	Thrust Washer - 3/64" Thick				
		1	2	3	4	5

Switch Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
SW-2677A	1	STARTING SWITCH ASSEMBLY				
12X-201	1	3/8 Lock Washer				
8X-830	1	3/8-16 Hex. Nut				
8X-321	2	#10-32x5/16 Rd. Hd. Screw				
X-1270	2	#10 Skpf. Washer				

Starter Clutch & Parts Used With

**	1	STARTER CLUTCH ASSEMBLY				
MAW-33	1	Pivot Screw				
**	1	Yoke Assembly				
8X-179	1	3/8-16 Hex. Nut				
12X-201	1	3/8 Lock Washer				

Miscellaneous Parts

MAW-24	1	Head Band				
MN-18	1	Thrust Washer				
PS-1090S	1	Pinion Housing Assembly				
MP-41A	1	ABSORBENT BRONZE BRG.				
8X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
8X-794	1	#10-32 Square Nut				
		1	2	3	4	5

(Issued 10-7-41)

Assembly No.	Starter Clutch	Yoke Assy.
MAW-4013	MAD-3099	MAW-2103A
MAW-4013A	MAD-3099	MAW-2103
MAW-4013B	MAW-3132	MAW-2103

‡ SERVICE BRUSH SET MAW-2012S.

* Use as required.

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

UNIT	APPLICATION
MAW-4013,A,B	Dodge Truck

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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

MAW-4015 STARTING MOTOR PARTS LIST

MAW-4015

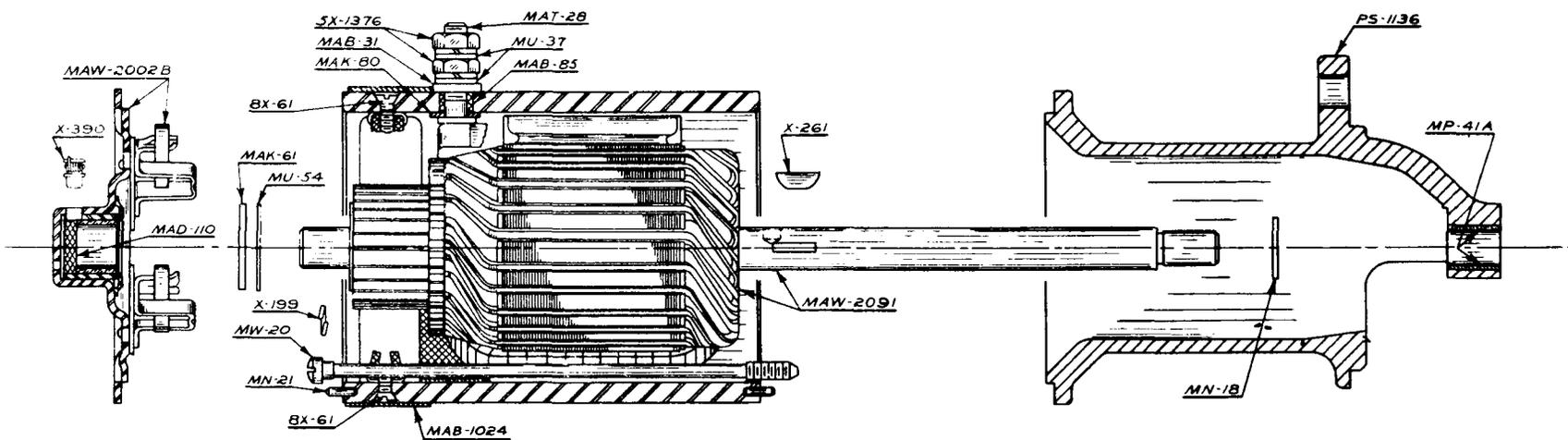
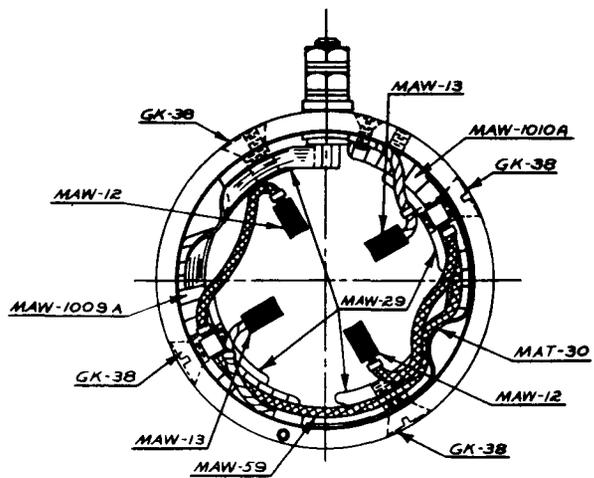
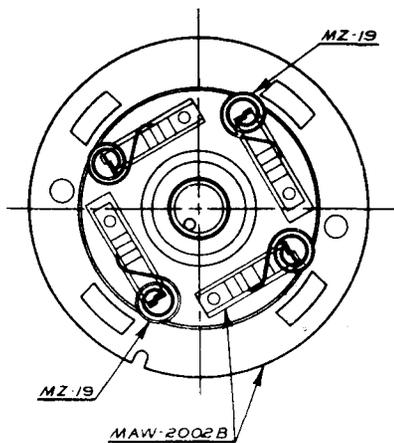
<u>Frame & Field Assembly with Terminal Post & Parts Used With</u>						<u>Armature Assembly & Parts Used With</u>								
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part					
		1	2	3	4	5			1	2	3	4	5	
(MAW-2109)	1	Frame & Field Assy.					MAK-61	1	5/8 Steel Washer					
GK-38	4	Pole Piece Screw					MAW-2091	1	Armature Assembly					
MAB-31	1	Insulating Washer					MU-54	1	Thrust Washer					
MAB-85	1	Insulating Bushing					X-261	1	#6 Woodruff Key					
MAK-80	1	Insulating Washer					<u>Miscellaneous Parts</u>							
MAT-28	1	Terminal Post					EBA-12	1	Bendix Drive Assy.					
MAT-30	1	Field Connection Ins.					MAB-1024	1	Head Band Assembly					
MAW-13	2	Brush Assy. - Grounded					MN-18	1	Thrust Washer					
MAW-29	4	Pole Piece					PS-1136	1	Pinion Housing Assy.					
MAW-59	1	Equalizer					MP-41A	1	Absorbent Bronze Erg.					
MAW-1009A	1	Field Coil Assy. - Left					X-715	1	#10-32x1 1/4 Rd. Hd. Screw					
MAW-12	1	Brush					8X-794	1	#10-32 Square Nut					
MAW-1010A	1	Field Coil Assy. - Right							1	2	3	4	5	
MAW-12	1	Brush					(Issued 10-8-37)							
MN-21	2	Dowel Pin												
MU-37	1	5/16 Plain Washer												
8X-61	2	#10-32x7/16 Flat Hd. Sc.												
X-1014	1	5/16 Lock Washer												
5X-1376	1	5/16-24 Hex. Nut												
MU-37	1	5/16 Plain Washer												
MW-20	2	Frame Screw												
X-199	2	1/4 Lock Washer												
X-1014	1	5/16 Lock Washer												
5X-1376	1	5/16-24 Hex. Nut												
<u>Comm. End Plate Assembly & Parts Used With</u>														
MAW-2002B	1	Comm. End Plate Assy.												
MAD-110	1	Felt Pad												
MZ-19	4	Brush Spring												
X-390	1	Oiler - 1/4 Hinged Top												
		1	2	3	4	5								

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Equipment & Parts List Binder

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

MAW-4015 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4016 STARTING MOTOR PARTS LIST

MAW-4016

Frame & Field Assy. With Terminal Post & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
(MAW-2036A)	1	Frame & Field Assy.				
DK-45	1	Insulating Washer				
GK-38	4	Pole Piece Screw				
MAT-30	1	Field Connection Ins.				
MAW-13	2	Brush Assy. - Grounded				
MAW-29	4	Pole Piece				
MAW-35	1	Terminal Post				
MAW-37	1	Insulating Bushing				
MAW-39	1	Insulating Block				
MAW-51	1	Terminal Post Ins.				
MAW-58	1	Equalizer				
MAW-1009BS	1	Field Coil Assy. - Left				
MAW-12	1	Brush				
MAW-1010BS	1	Field Coil Assy. - Right				
MAW-12	1	Brush				
MN-21	2	Dowel Pin				
SW-764	1	Switch Contact - Lower				
8X-61	2	#10-32x7/16 Flat Hd. So.				
8X-830	1	3/8-16 Hex. Nut				
MW-20A	2	Frame Screw				
12X-199	2	1/4 Lock Washer				

Comm. End Plate Assy. & Parts Used With

MAW-2002A	1	Comm. End Plate Assy.				
MAD-110	1	Felt Pad				
MZ-19	4	Brush Spring				
X-390	1	Oiler - 1/4 Hinged Top				

Armature Assy. & Parts Used With

MAD-96	1	Thrust Washer				
MAW-2030	1	Armature Assy.				
MAW-31	1	Armature Shaft Spacer				
MU-54	*	Thrust Washer - 1/32" Thick				
MU-54A	*	Thrust Washer - 1/64" Thick				
MU-54B	*	Thrust Washer - 3/64" Thick				
		1	2	3	4	5

Switch Assy. & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
SW-2813	1	Starting Switch Assy.				
12X-201	1	3/8 Lock Washer				
8X-830	1	3/8-16 Hex. Nut				
8X-321	2	#10-32x5/16 Rd. Hd. Screw				
X-1270	2	#10 Skpf. Washer				

Starter Clutch Assy. & Parts Used With

MAD-95	1	Spring Retainer				
MAD-3099	1	Starter Clutch Assy.				
MAW-95	1	Yoke Spring				
MAW-2111	1	Yoke Assembly				
MZ-116	1	Yoke Pin				
8X-146	1	1/4-20 Hex. Nut				
8X-179	1	3/8-16 Hex. Nut				
12X-199	1	1/4 Lock Washer				
12X-201	1	3/8 Lock Washer				

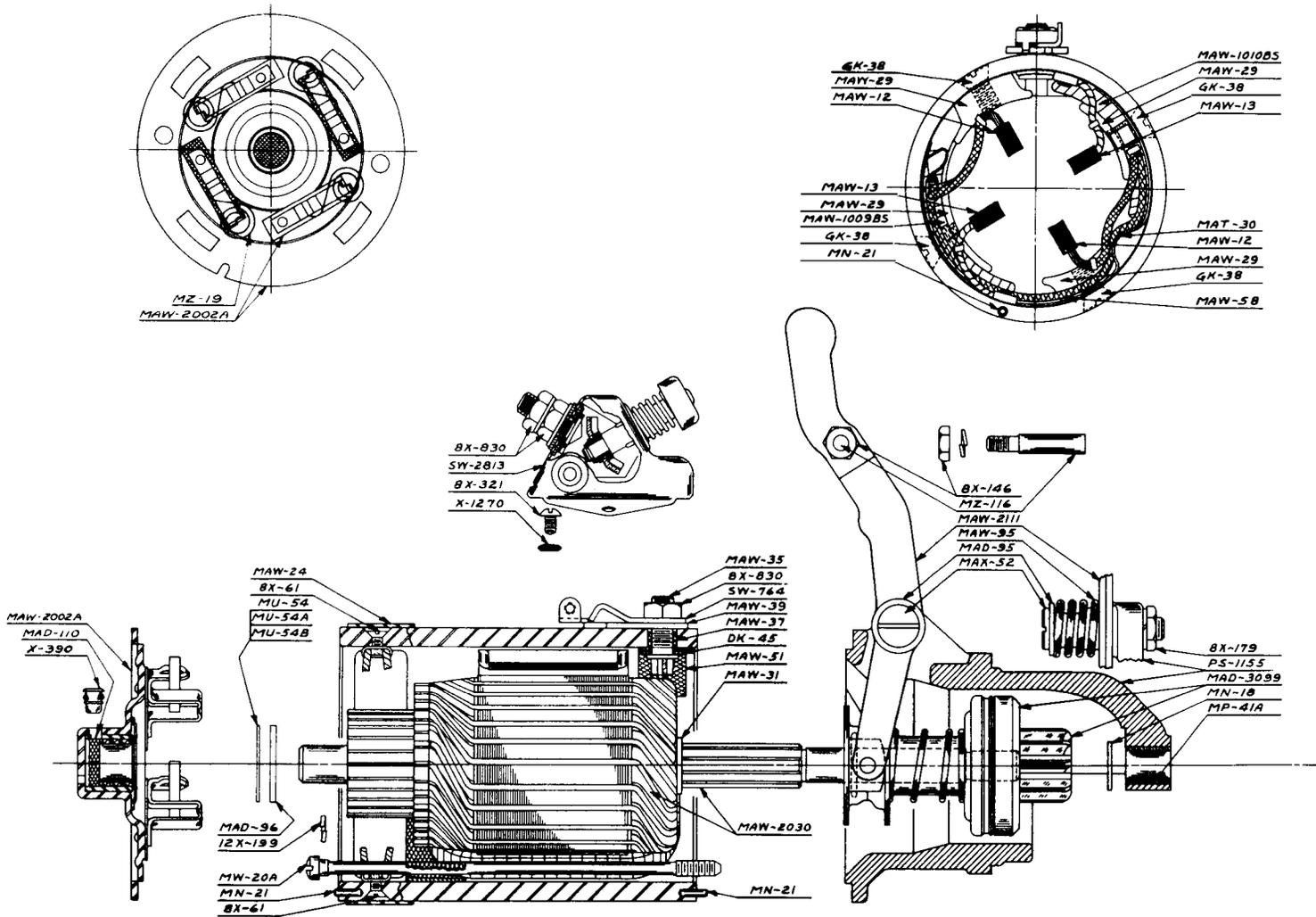
Miscellaneous Parts

MAW-24	1	Head Band				
MAX-52	1	Yoke Pin				
MN-18	1	Thrust Washer				
PS-1155	1	Pinion Housing Assy.				
MP-41A	1	Absorbent Bronze Brg.				
8X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
8X-794	1	#10-32 Square Nut				
		1	2	3	4	5

(Issued 10-3-38)

* Use as required.

MAW-4016 STARTING MOTOR ILLUSTRATION



MAW-4016
FILE A-798

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4018 STARTING MOTOR PARTS LIST

MAW-4018

<u>Frame & Field Assembly with Terminal Post & Parts Used With</u>					<u>Switch 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	
(MAW-2119)	1	Frame & Field Assy.					MAW-121R	1	Connector					
GK-38	4	Pole Piece Screw					SS-4001	1	SOLENOID STARTING SWITCH					
MAB-31	1	Insulating Washer					12X-196	1	#10 Lock Washer					
MAB-85	1	Insulating Bushing					8X-832	2	5/16-24 Hex. Nut					
MAK-80	1	Insulating Washer					12X-1014	2	5/16 Lock Washer					
MAT-28	1	Terminal Post					8X-1372	1	#10-32 Hex. Nut					
MAW-13	2	BRUSH ASSY. - Grounded					8X-321	2	#10-32x5/16 Rd. Hd. Screw					
MAW-29	4	Pole Piece					X-1270	2	#10 Skpf. Washer					
MAW-51	1	Field Connection Ins.					<u>Miscellaneous Parts</u>							
MAW-59	1	Equalizer					EBA-34	1	BENDIX DRIVE ASSY.					
MAW-1009A	1	Field Coil Assy.-Left					EB-108	2	Lock Washer					
MAW-12	1	BRUSH					EB-8505	1	DRIVE SPRING					
MAW-1010A	1	Field Coil Assy.-Right					EB-8506	1	Head Spring Screw					
MAW-12	1	BRUSH					EBA-1213	1	Anti-Drift Spring					
MN-21	2	Dowel Pin					EBA-1225	1	Meshing Spring					
MU-37	1	5/16 Plain Washer					EBA-1231	1	Screw Shaft Assy.					
8X-61	2	#10-32x7/16 Flat Hd. Sc.					EBA-1232	1	Pinion Assembly					
X-1014	1	5/16 Lock Washer					EBA-1233	1	Retaining Ring					
8X-1376	1	5/16-24 Hex. Nut					EBA-2907	1	Shaft Spring Screw					
MW-20A	2	Frame Screw					MAB-1024E	1	Head Band Assembly					
X-199	2	1/4 Lock Washer					MAB-2040	1	INTERMEDIATE BRG. ASSY.					
X-1014	1	5/16 Lock Washer					MG-77A	1	Absorbent Bronze Brg.					
8X-1376	1	5/16-24 Hex. Nut					PS-1095A	1	Pinion Housing Assy.					
<u>Comm. End Plate Assembly & Parts Used With</u>						MAB-88	1	Dowel Pin						
MAW-2002A	1	Comm. End Plate Assy.					MG-77A	1	Absorbent Bronze Brg.					
MAD-110	1	Felt Pad					X-489	1	1/4 Oiler - Press in Type					
MZ-19	4	Brush Spring					8X-715	1	#10-32x1 1/4 Rd. Hd. Sc.					
X-390	1	Oiler - 1/4 Hinged Top					8X-794	1	#10-32 Square Nut					
<u>Armature Assembly & Parts Used With</u>								1	2	3	4	5		
MAK-61	1	5/8 Steel Washer					(Issued 4-25-41)							
MAW-2006	1	ARMATURE ASSEMBLY												
MAB-35	1	Brg. Thrust Spacer												
MU-54	2	Thrust Washer - 1/32" Thick												
X-261	1	#6 Woodruff Key												
		1	2	3	4	5								

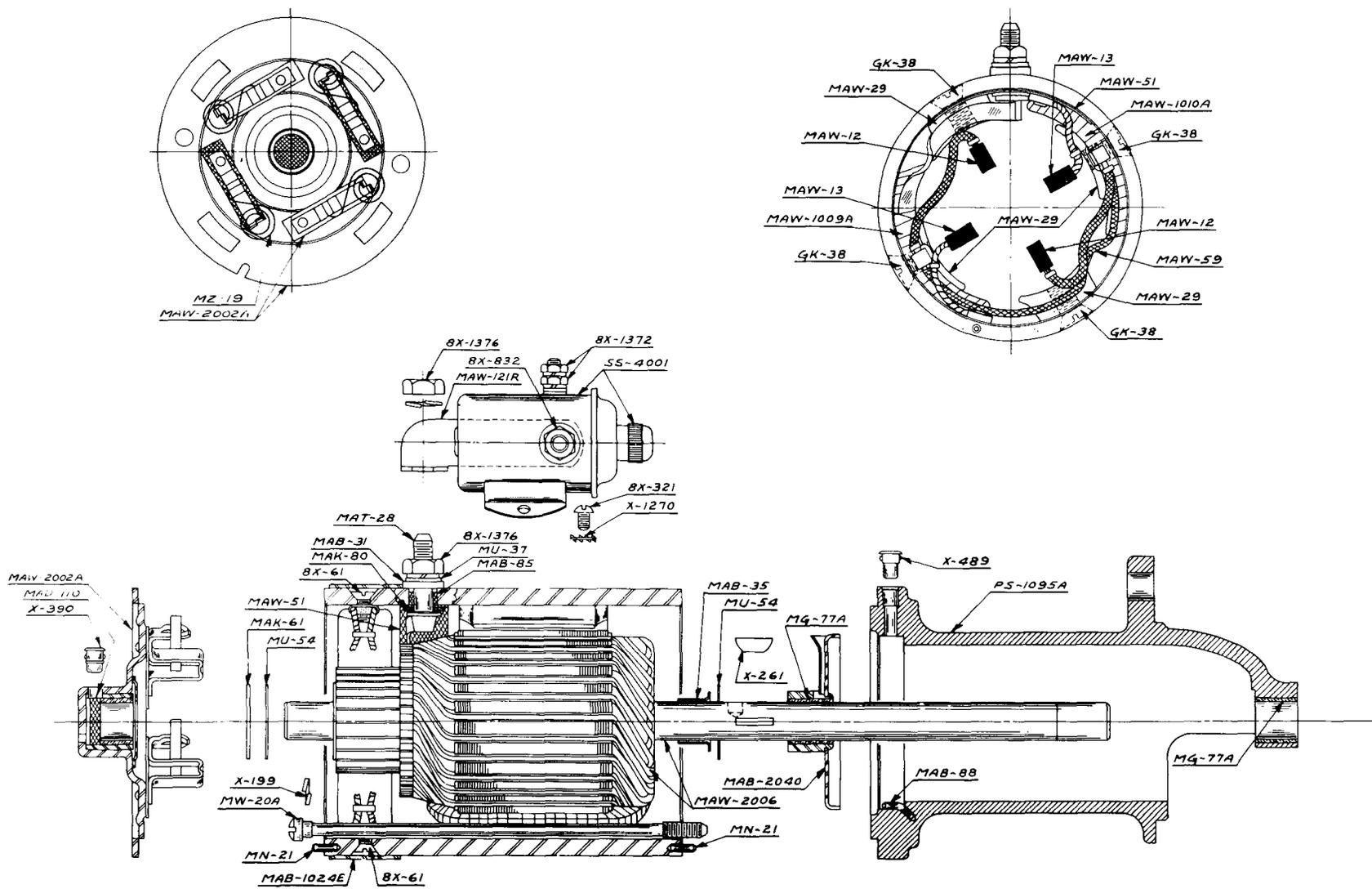
ONIT	APPLICATION
MAW-4018	Packard

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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."

MAW-4018 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4019,A STARTING MOTOR PARTS LIST

MAW-4019,A

PRELIMINARY

Frame & Field Assembly With Terminal Post & Parts Used With					Starter Clutch 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	
(MAW-2036A)	1	Frame & Field Assembly					MAD-95	1	Spring Retainer					
DK-45	1	Insulating Washer					**	1	STARTER CLUTCH ASSEMBLY					
GK-38	4	Pole Piece Screw					MAW-127	1	Yoke Spring					
MAT-30	1	Field Connection Ins.					MAW-2126	1	Yoke Assembly					
MAW-13†	2	Brush Assy.- Grounded					MAX-52	1	Yoke Pin					
MAW-29	4	Pole Piece					8X-179	1	3/8-16 Hex. Nut					
MAW-35	1	Terminal Post					12X-201	1	3/8 Lock Washer					
MAW-37	1	Insulating Bushing					<u>Miscellaneous Parts</u>							
MAW-39	1	Insulating Block					MAW-24	1	Head Band					
MAW-51	1	Terminal Post Ins.					MN-18	1	Thrust Washer					
MAW-58	1	Equalizer					PS-1174	1	Pinion Housing Assembly					
MAW-1009BS	1	Field Coil Assy.-Left					MP-41A	1	ABSORBENT BRONZE BRG.					
MAW-12†	1	Brush					8X-715	1	#10-32x1 1/4 Rd. Hd. Sc.					
MAW-1010BS	1	Field Coil Assy.-Right					8X-794	1	#10-32 Square Nut					
MAW-12†	1	Brush							1	2	3	4	5	
MN-21	2	Dowel Pin					(Issued 10-8-41)							
SW-764	1	Switch Contact - Lower												
8X-61	2	#10-32x7/16 Flat Hd. Sc.												
8X-830	1	3/8-16 Hex. Nut												
MW-20A	2	Frame Screw												
12X-199	2	1/4 Lock Washer												
<u>Comm. End Plate Assembly & Parts Used With</u>														
MAW-2002A	1	Comm. End Plate Assembly												
MAD-110	1	Felt Pad					Assembly No.		Starter Clutch					
MZ-19	4	Brush Spring					MAW-4019		MAD-3099					
X-390	1	Oiler - 1/4 Hinged Top					MAW-4019A		MAW-3132					
<u>Armature Assembly & Parts Used With</u>														
MAD-96	1	Thrust Washer												
MAW-2030	1	ARMATURE ASSEMBLY												
MAW-31	1	Armature Shaft Spacer												
MU-54	*	Thrust Washer - 1/32" Thick												
MU-54A	*	Thrust Washer - 1/64" Thick												
MU-54B	*	Thrust Washer - 3/64" Thick												
<u>Switch Assembly & Parts Used With</u>														
SW-2813	1	STARTING SWITCH ASSEMBLY												
12X-201	1	3/8 Lock Washer												
8X-830	1	3/8-16 Hex. Nut												
8X-321	2	#10-32x5/16 Rd. Hd. Screw												
X-1270	2	#10 Skpf. Washer												
		1	2	3	4	5								

* Use as required.

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

† SERVICE BRUSH SET MAW-2012S.

UNIT	APPLICATION
MAW-4019,A	DeSoto

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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

MAW-4020, A STARTING MOTOR PARTS LIST

MAW-4020, A

Frame & Field Assembly With Terminal Stud & 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
(*)	1	Frame & Field Assy.					MAK-61	1	Washer, Steel				
GK-38	4	Screw, Pole Shoe					MAW-2091	1	Armature				
MAB-31	1	Washer, Ins., Term. Stud, Outer					MN-18	1	Washer, Thrust, D.E.				
MAB-85	1	Bushing, Ins., Term. Stud					MU-54	1	Washer, Arm. Thrust, Comm. End & Intermediate				
MAK-80	1	Washer, Ins., Term. Stud					X-261	1	Key, Woodruff, #6				
MAT-28	1	Stud, Terminal					<u>Miscellaneous Parts</u>						
MAT-30	1	Insulation, Field Connection					EBA-12	1	Bendix Drive Assembly				
MAW-12†	2	Brush					EB-108	2	Lock Washer				
MAW-13†	2	Brush, Grounded					EB-7806	1	Hd. Spring Screw				
MAW-59	1	Equalizer					EBA-507	1	Shaft Spring Screw				
MAW-1009	1	Coil, Field, Left					EBA-1205	1	Drive Spring				
MAW-1010	1	Coil, Field, Right					EBA-1213	1	Anti-Drift Spring				
MN-21	2	Pin Dowel					EBA-1225	1	Meshing Spring				
MU-37	1	Washer, Plain, Term. Stud, 5/16					EBA-1231	1	Screw Shaft Assy.				
8X-61	2	Screw, Brush Ground, Flat Hd., #10-32x7/16					EBA-1232	1	Pinion Assy.				
12X-1014	2	Lockwasher, Term. Stud, 5/16					EBA-1233	1	Retaining Ring				
8X-1376	2	Nut, Term. Stud, Hex., 5/16-24					*	1	Band, Cover				
MU-37	1	Washer, Plain, 5/16					PS-1136	1	Housing Assy., Pinion				
MW-20A	2	Bolt, Thru					MP-41A	1	Bearing, Absorbent Bronze				
X-199	2	Lockwasher, Thru Bolt, 1/4					X-715	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/4				
<u>Comm. End Head Assembly & Parts Used With</u>						8X-794	1	Nut, Cover Band, Square #10-32					
MAW-2002B	1	Head Assy., Comm. End							1	2	3	4	5
MAD-110	1	Felt					* See table following parts list for part number applying to assembly wanted. † Brush Set, Service MAW-2012S.						
MZ-19	4	Spring, Brush											
X-390	1	Oiler											
		1	2	3	4	5							

Assembly No.	Frame & Field	Band, Cover
MAW-4020	MAW-2001	MAB-1024
MAW-4020A	MAW-2202	MAW-24

(Issued 9-18-46)

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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

MAW-4021 STARTING MOTOR PARTS LIST

MAW-4021

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
(MAW-2119)	1	Frame & Field Assy.				
GK-38	4	Pole Piece Screw				
MAB-31	1	Insulating Washer				
MAB-85	1	Insulating Bushing				
MAK-80	1	Insulating Washer				
MAT-28	1	Terminal Post				
MAW-13	2	BRUSH ASSY. - Grounded				
MAW-29	4	Pole Piece				
MAW-51	1	Field Connection Ins.				
MAW-59	1	Equalizer				
MAW-1009A	1	Field Coil Assy.-Left				
MAW-12	1	BRUSH				
MAW-1010A	1	Field Coil Assy.-Right				
MAW-12	1	BRUSH				
MN-21	2	Dowel Pin				
MU-37	1	5/16 Plain Washer				
SX-61	2	#10-32x7/16 Flat Hd. Sc.				
X-1014	1	5/16 Lock Washer				
SX-1376	1	5/16-24 Hex. Nut				
MW-20A	2	Frame Screw				
X-199	2	1/4 Lock Washer				
X-1014	1	5/16 Lock Washer				
SX-1376	1	5/16-24 Hex. Nut				

Comm. End Plate Assembly & Parts Used With

MAW-2002A	1	Comm. End Plate Assy.				
MAD-110	1	Felt Pad				
MZ-19	4	Brush Spring				
X-390	1	Oiler-1/4 Hinged Top				

Armature Assembly & Parts Used With

MAK-61	1	5/8 Steel Washer				
MAW-2006	1	ARMATURE ASSEMBLY				
MAB-35	1	Brg. Thrust Spacer				
MU-54	2	Thrust Washer-1/32" Thick				
X-261	1	#6 Woodruff Key				
		1	2	3	4	5

Switch Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAW-121R	1	Connector				
SS-4017	1	SOLENOID STARTING SWITCH				
12X-196	1	#10 Lock Washer				
SX-832	2	5/16-24 Hex. Nut				
12X-1014	2	5/16 Lock Washer				
SX-1372	1	#10-32 Hex. Nut				
SX-321	2	#10-32x5/16 Rd. Hd. Sc.				
X-1270	2	#10 Skpf. Washer				

Miscellaneous Parts

EBA-34	1	BENDIX DRIVE ASSY.				
EB-108	2	Lock Washer				
EB-8505	1	DRIVE SPRING				
EB-8506	1	Head Spring Screw				
EBA-1213	1	Anti-Drift Spring				
EBA-1225	1	Meshing Spring				
EBA-1231	1	Screw Shaft Assy.				
EBA-1232	1	Pinion Assembly				
EBA-1233	1	Retaining Ring				
EBA-2907	1	Shaft Spring Screw				
MAB-1024E	1	Head Band Assembly				
MAB-2040	1	INTERMEDIATE BRG. ASSY.				
MG-77A	1	Absorbent Bronze Brg.				
PS-1095A	1	Pinion Housing Assy.				
MAB-88	1	Dowel Pin				
MG-77A	1	Absorbent Bronze Brg.				
X-489	1	1/4 Oiler - Press in Type				
SX-715	1	#10-32x1 1/4 Rd. Hd. Sc.				
SX-794	1	#10-32 Square Nut				
		1	2	3	4	5

(Issued 7-2-40)

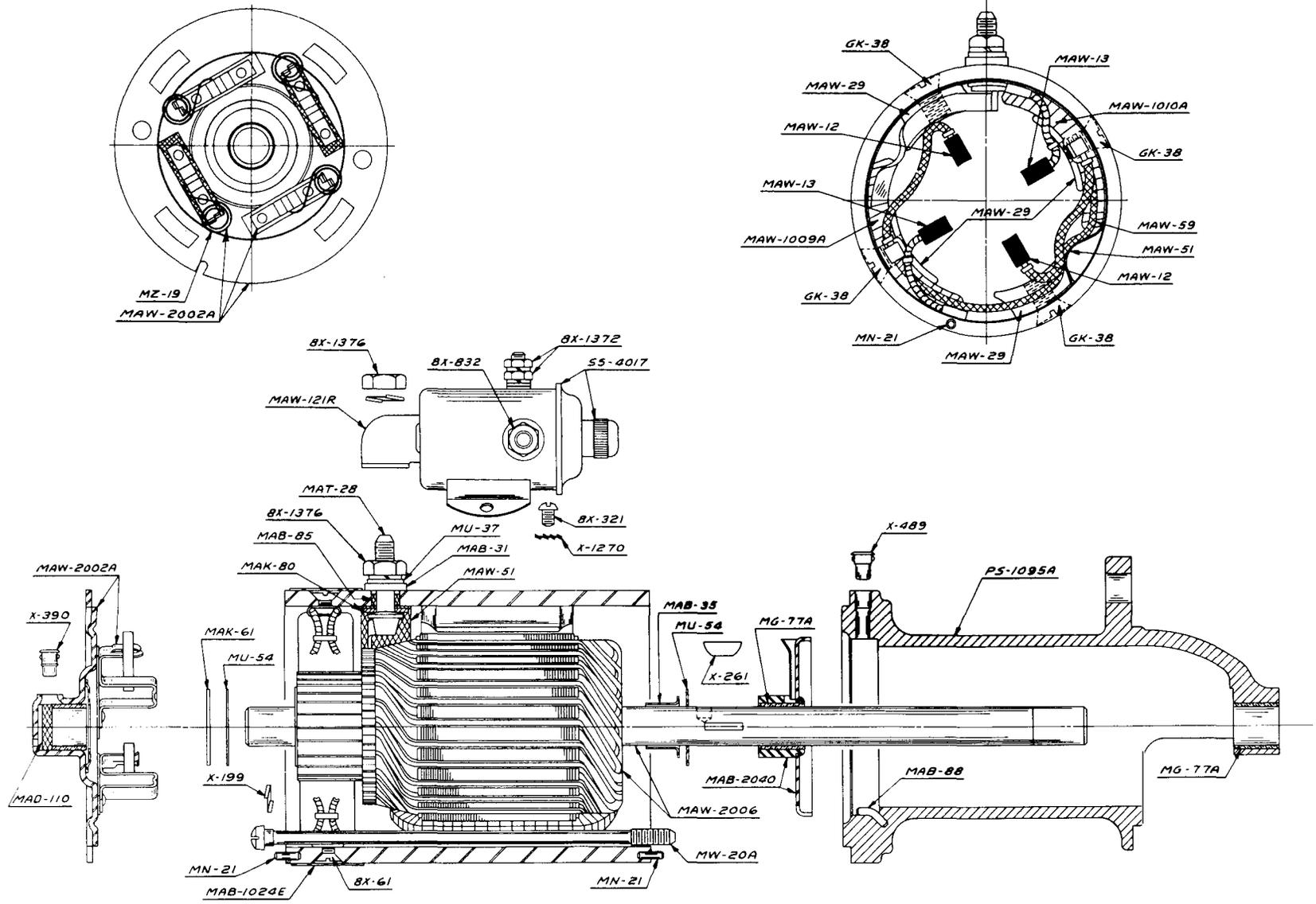
UNIT	APPLICATION
MAW-4021	Packard

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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."

MAW-4021 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4022,A STARTING MOTOR PARTS LIST

MAW-4022,A

PRELIMINARY

Frame & Field Assembly With Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
(MAW-2050)	1	Frame & Field Assembly					
DK-45	1	Insulating Washer					
GK-38	4	Pole Piece Screw					
MAW-131	2	Brush Assy.- Grounded					
MAW-28	1	Terminal Post					
MAW-29	4	Pole Piece					
MAW-37	1	Insulating Bushing					
MAW-51	1	Field Connection Ins.					
MAW-59	1	Equalizer					
MAW-1009A	1	Field Coil Assy.-Left					
MAW-121	1	Brush					
MAW-1010A	1	Field Coil Assy.-Right					
MAW-121	1	Brush					
MAX-35	1	Insulating Washer					
MAX-44	1	3/8 Steel Washer					
MN-21	2	Dowel Pin					
8X-61	2	#10-32x7/16 Flat Hd. Sc.					
12X-201	1	3/8 Lock Washer					
8X-830	1	3/8-16 Hex. Nut					
MW-20A	2	Frame Screw					
12X-199	2	1/4 Lock Washer					
12X-201	1	3/8 Lock Washer					
8X-830	1	3/8-16 Hex. Nut					

Comm. End Plate Assembly & Parts Used With

MAW-2002A	1	Comm. End Plate Assembly					
MAD-110	1	Felt Pad					
MZ-19	4	Brush Spring					
X-390	1	Oiler - 1/4 Hinged Top					

Armature Assembly & Parts Used With

MAD-96	1	Thrust Washer					
MAW-2030	1	ARMATURE ASSEMBLY					
MAW-31	1	Armature Shaft Spacer					
MU-54	*	Thrust Washer - 1/32" Thick					
MU-54A	*	Thrust Washer - 1/64" Thick					
MU-54B	*	Thrust Washer - 3/64" Thick					

Switch Assembly & Parts Used With

SS-116L	1	Connector					
SS-1128	1	Moving Core Assembly					
SS-59	1	Link Screw					
SS-61	1	Spring					
SS-128	1	Core					
SS-4704	1	SOLENOID STARTING SWITCH (See separate list for parts)					
12X-201	2	3/8 Lock Washer					
8X-467	4	1/4-20x3/8 Hex. Hd. Screw					
8X-830	2	3/8-16 Hex. Nut					
X-1272	4	1/4 Skpf. Washer					
		1 2 3 4 5					

Starter Clutch Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAD-2087	1	Yoke Assembly					
MAX-37	1	Gasket					
MAX-38	1	Dust Cover					
MAX-39	1	Dust Plate					
MAX-41	1	Yoke Pivot Bushing					
MAX-42	1	Yoke Pivot Bushing					
MAX-46	1	Yoke Spring					
**	1	STARTER CLUTCH ASSEMBLY					
SS-56	1	Link Pin					
8X-97	1	5/16-18x3 1/4 Hex. Hd. Sc.					
8X-147	1	5/16-18 Hex. Nut					
8X-311	4	#10-32x3/8 Rd. Hd. Screw					
X-401	1	1/16x3/8 Cotter Pin					
12X-1014	1	5/16 Lock Washer					
X-1270	4	#10 Skpf. Washer					

Miscellaneous Parts

MAW-24	1	Head Band					
MN-18	1	Thrust Washer					
PS-1094A	1	Pinion Housing Assembly					
MP-41A	1	ABSORBENT BRONZE BRG.					
8X-715	1	#10-32x1 1/4 Rd. Hd. Screw					
8X-794	1	#10-32 Square Nut					
		1 2 3 4 5					

(Issued 10-8-41)

Assembly No.	Starter Clutch
MAW-4022	MAY-3099
MAW-4022A	MAW-3132A

* Use as required.

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

‡ SERVICE BRUSH SET MAW-2012S.

UNIT	APPLICATION
MAW-4022,A	Dodge, DeSoto, Plymouth

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File in
Equipment & Parts List Binder

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4023,A STARTING MOTOR PARTS LIST

MAW-4023,A

PRELIMINARY

Frame & Field Assembly With Terminal Post & Parts Used With						Starter Clutch 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
(MAW-2C36A)	1	Frame & Field Assembly					**	1	STARTER CLUTCH ASSEMBLY				
DK-45	1	Insulating Washer					MAW-33	1	Pivot Screw				
GK-38	4	Pole Piece Screw					MAW-2103	1	Yoke Assembly				
MAT-30	1	Field Connection Ins.					8X-179	1	3/8-16 Hex. Nut				
MAW-13†	2	Brush Assy.- Grounded					12X-201	1	3/8 Lock Washer				
MAW-29	4	Pole Piece					<u>Miscellaneous Parts</u>						
MAW-35	1	Terminal Post					MAW-24	1	Head Band				
MAW-37	1	Insulating Bushing					MN-18	1	Thrust Washer				
MAW-39	1	Insulating Block					PS-1090S	1	Pinion Housing Assembly				
MAW-51	1	Terminal Post Insulation					MP-41A	1	ABSORBENT BRONZE BEARING				
MAW-58	1	Equalizer					8X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
MAW-1009BS	1	Field Coil Assy.-Left					8X-794	1	#10-32 Square Nut				
MAW-12†	1	Brush							1	2	3	4	5
MAW-1010BS	1	Field Coil Assy.-Right					(Issued 10-8-41)						
MAW-12†	1	Brush											
MN-21	2	Dowel Pin					Assembly No.		Starter Clutch				
SW-764	1	Switch Contact - Lower					MAW-4023		MAD-3099				
8X-61	2	#10-32x7/16 Flat Hd. Sc.					MAW-4023A		MAW-3132				
8X-830	1	3/8-16 Hex. Nut											
MW-20A	2	Frame Screw											
12X-199	2	1/4 Lock Washer											
<u>Comm. End Plate Assembly & Parts Used With</u>													
MAW-2002A	1	Comm. End Plate Assembly											
MAD-110	1	Felt Pad											
MZ-19	4	Brush Spring											
X-390	1	Oiler - 1/4 Hinged Top											
<u>Armature Assembly & Parts Used With</u>													
MAD-96	1	Thrust Washer											
MAW-2030	1	ARMATURE ASSEMBLY											
MAW-31	1	Armature Shaft Spacer											
MU-54	*	Thrust Washer - 1/32" Thick											
MU-54A	*	Thrust Washer - 1/64" Thick											
MU-54B	*	Thrust Washer - 3/64" Thick											
<u>Switch Assembly & Parts Used With</u>													
SW-2813	1	STARTING SWITCH ASSEMBLY											
12X-201	1	3/8 Lock Washer											
8X-830	1	3/8-16 Hex. Nut											
8X-321	2	#10-32x5/16 Rd. Hd. Screw											
X-1270	2	#10 Skpf. Washer											
		1	2	3	4	5							

* Use as required.

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

† SERVICE BRUSH SET MAW-2012S.

UNIT	APPLICATION
MAW-4023,A	Dodge Truck

Printed in U. S. A.

File in
Equipment & Parts List Binder

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4024 STARTING MOTOR PARTS LIST

MAW-4024

Frame & Field Assy. With Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
(MAW-2119)	1	Frame & Field Assembly				
GK-38	4	Pole Piece Screw				
MAB-31	1	Insulating Washer				
MAB-85	1	Insulating Bushing				
MAK-80	1	Insulating Washer				
MAT-28	1	Terminal Post				
MAW-13	2	BRUSH ASSY.- Grounded				
MAW-29	4	Pole Piece				
MAW-51.	1	Field Connection Ins.				
MAW-59	1	Equalizer				
MAW-1009A	1	Field Coil Assy.- Left				
MAW-12	1	BRUSH				
MAW-1010A	1	Field Coil Assy.- Right				
MAW-12	1	BRUSH				
MN-21	2	Dowel Pin				
MU-37	1	5/16 Plain Washer				
8X-61	2	#10-32x7/16 Flat Hd. Sc.				
X-1014	1	5/16 Lock Washer				
8X-1376	1	5/16-24 Hex. Nut				
MW-20A	2	Frame Screw				
X-199	2	1/4 Lock Washer				
X-1014	1	5/16 Lock Washer				
8X-1376	1	5/16-24 Hex. Nut				

Comm. End Plate Assy. & Parts Used With

MAW-2002A	1	Comm. End Plate Assembly				
MAD-110	1	Felt Pad				
MZ-19	4	Brush Spring				
X-390	1	Oiler - 1/4 Hinged Top				

Armature Assembly & Parts Used With

MAK-61	1	5/8 Steel Washer				
MAW-2128	1	ARMATURE ASSEMBLY				
MU-54	2	Thrust Washer - 1/32" Thick				
X-261	1	#6 Woodruff Key				
		1	2	3	4	5

Switch Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAW-121R	1	Connector				
SS-4017	1	SOLENOID SWITCH				
12X-196	1	#10 Lock Washer				
8X-832	2	5/16-24 Hex. Nut				
12X-1014	2	5/16 Lock Washer				
8X-1372	1	#10-32 Hex. Nut				
8X-321	2	#10-32x5/16 Rd. Hd. Screw				
X-1270	2	#10 Skpf. Washer				

Miscellaneous Parts

EBA-33	1	BENDIX DRIVE ASSEMBLY				
EBA-1213	1	Anti-Drift Spring				
EBA-1225	1	Meshing Spring				
EBA-1232	1	Pinion Assembly				
EBA-1233	1	Retaining Ring				
EBA-2006	1	Locating Pin				
EBA-2007	2	Spring Anchor Plate				
EBA-2008	1	Lock Ring				
EBA-2031	1	S-A Assembly				
EBA-2105	1	DRIVE SPRING				
MAB-1024M	1	Head Band Assembly				
MAW-2129	1	INTERMEDIATE BRG. ASSY.				
MAW-130	1	Absorbent Bronze Brg.				
PS-1179	1	Pinion Housing Assembly				
MAW-131	1	Dowel Pin				
MG-77A	1	Absorbent Bronze Brg.				
8X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
8X-794	1	#10-32 Square Nut				
		1	2	3	4	5

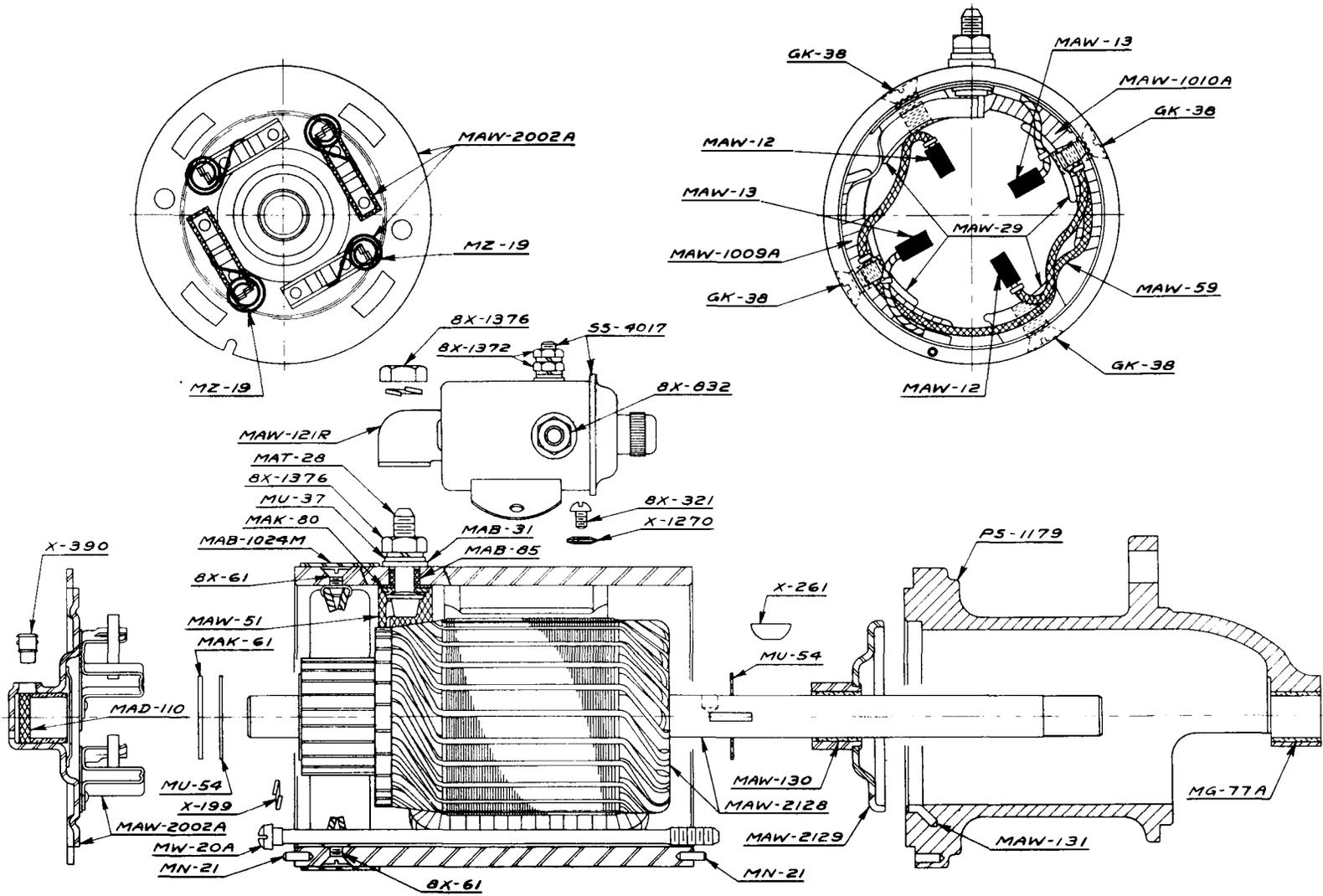
(Issued 10-2-40)

UNIT	APPLICATION
MAW-4024	Packard

Printed in U. S. A.

File in
Equipment & Parts List Binder

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



MAW-4024 STARTING MOTOR ILLUSTRATION

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4025 STARTING MOTOR PARTS LIST

MAW-4025

PRELIMINARY

Frame & Field Assembly With Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
(MAW-2145)	1	Frame & Field Assembly				
DK-45	1	Insulating Washer				
GK-38	4	Pole Piece Screw				
MAW-13	2	BRUSH ASSY.- Grounded				
MAW-28	1	Terminal Post				
MAW-29	4	Pole Piece				
MAW-37	1	Insulating Bushing				
MAW-51	1	Field Connection Ins.				
MAW-59	1	Equalizer				
MAW-1009A	1	Field Coil Assy.- Left				
MAW-12	1	BRUSH				
MAW-1010A	1	Field Coil Assy.- Right				
MAW-12	1	BRUSH				
MAX-35	1	Insulating Washer				
MAX-44	1	3/8 Steel Washer				
MN-21	2	Dowel Pin				
8X-61	2	#10-32x7/16 Flat Hd. Sc.				
12X-201	1	3/8 Lock Washer				
8X-830	1	3/8-16 Hex. Nut				
MW-20A	2	Frame Screw				
12X-199	2	1/4 Lock Washer				
12X-201	1	3/8 Lock Washer				
8X-830	1	3/8-16 Hex. Nut				

Comm. End Plate Assembly & Parts Used With

MAW-2002C	1	Comm. End Plate Assembly
MAD-110	1	Felt Pad
MZ-19	4	Brush Spring
X-390	1	Oiler - 1/4 Hinged Top

Armature Assembly & Parts Used With

MAD-96	1	Thrust Washer
MAW-2030	1	ARMATURE ASSEMBLY
MAW-31	1	Armature Shaft Spacer
MU-54	*	Thrust Washer - 1/32" Thick
MU-54B	*	Thrust Washer - 1/64" Thick
MU-54B	*	Thrust Washer - 3/64" Thick
		1 2 3 4 5

Switch Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAX-74	1	Connector				
SS-4705	1	STARTING SWITCH ASSEMBLY (See Separate List for Parts)				
12X-201	2	3/8 Lock Washer				
8X-467	4	1/4-20x3/8 Hex. Hd. Screw				
8X-830	2	3/8-16 Hex. Nut				
X-1272	4	1/4 Skpf. Washer				

Starter Clutch Assembly & Parts Used With

MAW-144	1	Yoke Spring
MAW-3132A	1	STARTER CLUTCH ASSEMBLY
MAX-70	1	Yoke Pin Sleeve
MAX-71	1	Yoke Pin
MAX-2072	1	Yoke Assembly
SS-56	1	Link Pin
12X-201	1	3/8 Lock Washer
X-401	1	1/16x3/8 Cotter Pin
8X-830	1	3/8-16 Hex. Nut

Miscellaneous Parts

MAW-24	1	Head Band
MN-18	1	Thrust Washer
PS-1190A	1	Pinion Housing Assembly
MP-41A	1	ABSORBENT BRONZE BRG.
8X-715	1	#10-32x1 1/4 Rd. Hd. Screw
8X-794	1	#10-32 Square Nut
		1 2 3 4 5

(Issued 8-13-41)

* Use as required.

UNIT	APPLICATION
MAW-4025	Dodge, Plymouth

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File in
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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4026 STARTING MOTOR PARTS LIST

MAW-4026

PRELIMINARY

Frame & Field Assembly With Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
(MAW-2036A)	1	Frame & Field Assembly				
DK-45	1	Insulating Washer				
GK-38	4	Pole Piece Screw				
MAT-30	1	Field Connection Ins.				
MAW-13	2	BRUSH ASSY.- Grounded				
MAW-29	4	Pole Piece				
MAW-35	1	Terminal Post				
MAW-37	1	Insulating Bushing				
MAW-39	1	Insulating Block				
MAW-51	1	Terminal Post Insulation				
MAW-58	1	Equalizer				
MAW-1009BS	1	Field Coil Assy.-Left				
MAW-12	1	BRUSH				
MAW-1010BS	1	Field Coil Assy.-Right				
MAW-12	1	BRUSH				
MN-21	2	Dowel Pin				
SW-764	1	Switch Contact - Lower				
8X-61	2	#10-32x7/16 Flat Hd. Sc.				
8X-830	1	3/8-16 Hex. Nut				
MW-20A	2	Frame Screw				
12X-199	2	1/4 Lock Washer				

Comm. End Plate Assembly & Parts Used With

MAW-2002A	1	Comm. End Plate Assembly
MAD-110	1	Felt Pad
MZ-19	4	Brush Spring
X-390	1	Oiler - 1/4 Hinged Top

Armature Assembly & Parts Used With

MAD-96	1	Thrust Washer
MAW-2030	1	ARMATURE ASSEMBLY
MAW-31	1	Armature Shaft Spacer
MU-54	*	Thrust Washer - 1/32" Thick
MU-54A	*	Thrust Washer - 1/64" Thick
MU-54B	*	Thrust Washer - 3/64" Thick
		1 2 3 4 5

Switch Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
SW-2813	1	STARTING SWITCH ASSEMBLY				
12X-201	1	3/8 Lock Washer				
8X-830	1	3/8-16 Hex. Nut				
8X-321	2	#10-32x5/16 Rd. Hd. Screw				
X-1270	2	#10 Skpf. Washer				

Starter Clutch Assembly & Parts Used With

MAW-2146	1	Yoke Assembly
MAW-3132	1	STARTER CLUTCH ASSEMBLY
MZ-175	1	Pivot Screw
8X-179	1	3/8-16 Hex. Nut
12X-201	1	3/8 Lock Washer

Miscellaneous Parts

MAW-24	1	Head Band
MN-18	1	Thrust Washer
PS-1187	1	Pinion Housing Assembly
MP-41A	1	ABSORBENT BRONZE BRG.
8X-715	1	#10-32x1 1/4 Rd. Hd. Screw
8X-794	1	#10-32 Square Nut
		1 2 3 4 5

(Issued 8-1-41)

* Use as required.

UNIT	APPLICATION
MAW-4026	Dodge, Plymouth (Canada)

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File in
Equipment & Parts List Binder

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4027 STARTING MOTOR PARTS LIST

MAW-4027

PRELIMINARY

Frame & Field Assembly With Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
(MAW-2119)	1	Frame & Field Assembly				
GK-38	4	Pole Piece Screw				
MAB-31	1	Insulating Washer				
MAB-85	1	Insulating Bushing				
MAK-80	1	Insulating Washer				
MAT-28	1	Terminal Post				
MAW-13	2	BRUSH ASSY.- Grounded				
MAW-29	4	Pole Piece				
MAW-51	1	Field Connection Insulator				
MAW-59	1	Equalizer				
MAW-1009A	1	Field Coil Assy.- Left				
MAW-12	1	BRUSH				
MAW-1010A	1	Field Coil Assy.- Right				
MAW-12	1	BRUSH				
MN-21	2	Dowel Pin				
MU-37	1	5/16 Plain Washer				
8X-61	2	#10-32x7/16 Flat Hd. Screw				
X-1014	1	5/16 Lock Washer				
8X-1378	1	5/16-24 Hex. Nut				
MW-20A	2	Frame Screw				
X-199	2	1/4 Lock Washer				
X-1014	1	5/16 Lock Washer				
8X-1378	1	5/16-24 Hex. Nut				

Comm. End Plate Assembly & Parts Used With

MAW-2002A	1	Comm. End Plate Assembly
MAD-110	1	Felt Pad
MZ-19	4	Brush Spring
X-390	1	Oiler - 1/4 Hinged Top

Armature Assembly & Parts Used With

MAK-61	1	5/8 Steel Washer
MAW-2128	1	ARMATURE ASSEMBLY
MU-54	2	Thrust Washer - 1/32" Thick
X-261	1	#6 Woodruff Key
		1 2 3 4 5

Switch Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAW-66R	1	Connector				
SS-4025	1	SOLENOID SWITCH ASSEMBLY				
12X-198	2	#10 Lock Washer				
8X-832	2	5/16-24 Hex. Nut				
12X-1014	2	5/16 Lock Washer				
8X-1372	2	#10-32 Hex. Nut				
8X-321	2	#10-32x5/16 Rd. Hd. Screw				
X-1270	2	#10 Skpf. Washer				

Miscellaneous Parts

EBA-33	1	<u>BENDIX DRIVE ASSEMBLY</u>				
EBA-1213	1	Anti-Drift Spring				
EBA-1225	1	Meshing Spring				
EBA-1232	1	Pinion Assembly				
EBA-1233	1	Retaining Ring				
EBA-2008	1	Locating Pin				
EBA-2007	2	Spring Anchor Plate				
EBA-2008	1	Lock Ring				
EBA-2031	1	S-A Assembly				
EBA-2105	1	DRIVE SPRING				
MAB-1024M	1	Head Band Assembly				
MAW-2129	1	INTERMEDIATE BEARING ASSY.				
MAW-130	1	Absorbent Bronze Brg.				
PS-1179	1	Pinion Housing Assembly				
MAW-131	1	Dowel Pin				
MG-77A	1	Absorbent Bronze Brg.				
8X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
8X-794	1	#10-32 Square Nut				
		1	2	3	4	5

(Issued 8-1-41)

UNIT	APPLICATION
MAW-4027	Packard

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File in
Equipment & Parts List Binder

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4028 STARTING MOTOR PARTS LIST

MAW-4028

PRELIMINARY

Frame & Field Assembly With Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
(MAW-2147)	1	Frame & Field Assembly				
GK-38	4	Pole Piece Screw				
MAB-31	1	Insulating Washer				
MAB-85	1	Insulating Bushing				
MAK-80	1	Insulating Washer				
MAT-28	1	Terminal Post				
MAT-30	1	Field Connection Ins.				
MAW-13	2	BRUSH ASSY.- Grounded				
MAW-29	4	Pole Piece				
MAW-59	1	Equalizer				
MAW-1009A	1	Field Coil Assy.- Left				
MAW-12	1	BRUSH				
MAW-1010A	1	Field Coil Assy.- Right				
MAW-12	1	BRUSH				
MN-21	2	Dowel Pin				
MU-37	1	5/16 Plain Washer				
8X-61	2	#10-32x7/16 Flat Hd. Sc.				
X-1014	1	5/16 Lock Washer				
5X-1376	1	5/16-24 Hex. Nut				
MU-37	1	5/16 Plain Washer				
MW-20	2	Frame Screw				
X-199	2	1/4 Lock Washer				
X-1014	1	5/16 Lock Washer				
5X-1376	1	5/16-24 Hex. Nut				

Comm. End Plate Assembly & Parts Used With

MAW-2002B	1	Comm. End Plate Assembly				
MAD-110	1	Felt Pad				
MZ-19	4	Brush Spring				
X-390	1	Oiler - 1/4 Hinged Top				
		1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAK-61	1	5/8 Steel Washer				
MAW-2091	1	ARMATURE ASSEMBLY				
MU-54	1	Thrust Washer - 1/32" Thick				
X-261	1	#6 Woodruff Key				

Miscellaneous Parts

EBA-12	1	BENDIX DRIVE ASSEMBLY				
EB-108	2	Lock Washer				
EB-7806	1	Hd. Spring Screw				
EBA-507	1	Shaft Spring Screw				
EBA-1205	1	DRIVE SPRING				
EBA-1213	1	Anti-Drift Spring				
EBA-1225	1	Meshing Spring				
EBA-1231	1	Screw Shaft Assy.				
EBA-1232	1	Pinion Assembly				
EBA-1233	1	Retaining Ring				
MAB-1024	1	Head Band Assembly				
MN-18	1	Thrust Washer				
PS-1136	1	Pinion Housing Assembly				
MP-41A	1	ABSORBENT BRONZE BRG.				
8X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
8X-794	1	#10-32 Square Nut				
		1	2	3	4	5

(Issued 8-13-41)

UNIT	APPLICATION
MAW-4028	Studebaker

Printed in U. S. A.

File in
Equipment & Parts List Binder

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4029 STARTING MOTOR PARTS LIST

MAW-4029

PRELIMINARY

Frame & Field Assembly With Terminal Post & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
(MAW-2036A)	1	Frame & Field Assembly					
DK-45	1	Insulating Washer					
GK-38	4	Pole Piece Screw					
MAT-30	1	Field Connection Ins.					
MAW-13†	2	Brush Assy.- Grounded					
MAW-29	4	Pole Piece					
MAW-35	1	Terminal Post					
MAW-37	1	Insulating Bushing					
MAW-39	1	Insulating Block					
MAW-51	1	Terminal Post Insulation					
MAW-58	1	Equalizer					
MAW-1009BS	1	Field Coil Assy.-Left					
MAW-12†	1	Brush					
MAW-1010BS	1	Field Coil Assy.-Right					
MAW-12†	1	Brush					
MN-21	2	Dowel Pin					
SW-764	1	Switch Contact - Lower					
8X-61	2	#10-32x7/16 Flat Hd. Sc.					
8X-830	1	3/8-16 Hex. Nut					
MW-20A	2	Frame Screw					
12X-199	2	1/4 Lock Washer					

Comm. End Plate Assembly & Parts Used With

MAW-2002A	1	Comm. End Plate Assembly
MAD-110	1	Felt Pad
MZ-19	4	Brush Spring
X-390	1	Oiler - 1/4 Hinged Top

Armature Assembly & Parts Used With

MAD-96	1	Thrust Washer
MAW-2030	1	ARMATURE ASSEMBLY
MAW-31	1	Armature Shaft Spacer
MU-54	*	Thrust Washer - 1/32" Thick
MU-54A	*	Thrust Washer - 1/64" Thick
MU-54B	*	Thrust Washer - 3/64" Thick

Switch Assembly & Parts Used With

SW-2813	1	STARTING SWITCH ASSEMBLY
12X-201	1	3/8 Lock Washer
8X-830	1	3/8-16 Hex. Nut
8X-321	2	#10-32x5/16 Rd. Hd. Screw
X-1270	2	#10 Skpf. Washer
		1 2 3 4 5

Starter Clutch Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAW-2148	1	Yoke Assembly					
MAW-3132	1	STARTER CLUTCH ASSEMBLY					
MZ-175	1	Pivot Screw					
8X-179	1	3/8-16 Hex. Nut					
12X-201	1	3/8 Lock Washer					

Miscellaneous Parts

MAW-24	1	Head Band
MN-18	1	Thrust Washer
PS-1194	1	Pinion Housing Assembly
MP-41A	1	ABSORBENT BRONZE BEARING
8X-715	1	#10-32x1 1/4 Rd. Hd. Screw
8X-794	1	#10-32 Square Nut
		1 2 3 4 5

(Issued 10-8-41)

* Use as required.

† SERVICE BRUSH SET MAW-2012S.

UNIT	APPLICATION
MAW-4029	Dodge Truck

Printed in U. S. A.

File in
Equipment & Parts List Binder

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4030 STARTING MOTOR PARTS LIST

MAW-4030

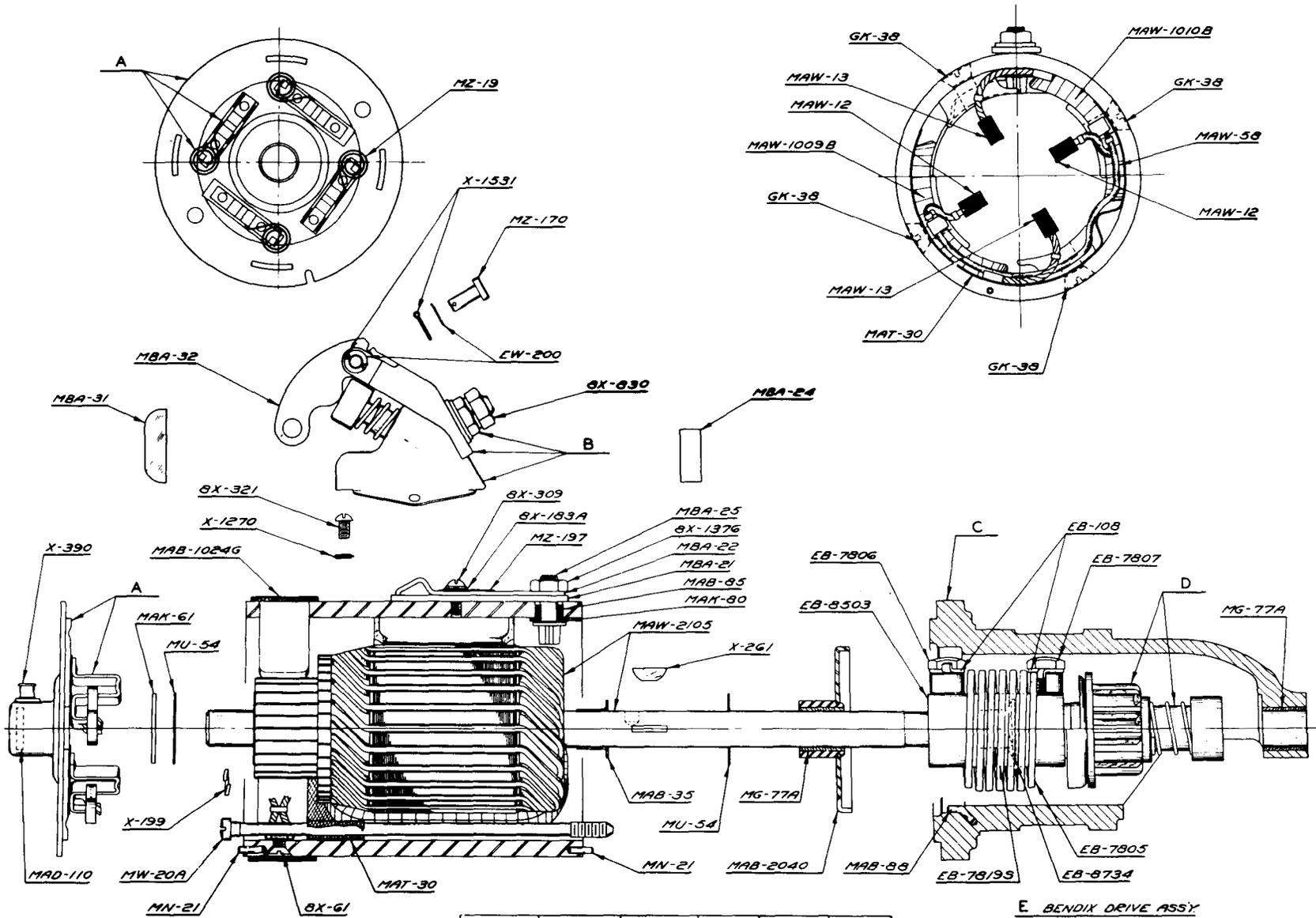
Frame & Field Assembly With Terminal Stud & Parts Used With					Switch Assembly & Parts Used With							
Part No.	No. Used	Name of Part										
			1	2	3	4	5					
(MAW-3151)	1	Frame & Field Assy.						EW-200	1	Washer, Plain		
GK-38	4	Screw, Pole Shoe						MBA-24	1	Gasket, Switch		
MAB-85	1	Bushing, Insulating, Term. Stud						MBA-31	1	Gasket, Switch		
MAK-80	1	Washer, Insulating, Term. Stud, Inner						MBA-32	1	Lever, Switch		
MAT-30	1	Insulation, Field Connection						MZ-170	1	Pin, Switch Lever		
MAW-12‡	2	Brush						SW-2916A	1	Switch, Starting		
MAW-13‡	2	Brush, Grounded						8X-321	2	Screw, Mtg. Switch, Rd. hd., #10-32x5/16		
MAW-58	1	Equalizer						X-1270	2	Washer, Skpf., Switch Mtg. Sc., #10		
MAW-1009B	1	Coil, Field, Left						X-1531	1	Pin, Cotter, 1/16x1/2		
MAW-1010B	1	Coil, Field, Right						<u>Miscellaneous Parts</u>				
MBA-21	1	Insulation, Contact, Lower						EB-99	1	Bendix Drive Assembly		
MBA-22	1	Contact, Switch, Lower						EB-108	2	Washer, Lock		
MBA-25	1	Stud, Terminal, 5/16-24						EB-7805	1	Spring, Drive		
MN-21	2	Pin, Dowel						EB-7806	1	Screw, Spring, Head		
MZ-197	1	Insulation, Contact						EB-7807	1	Screw, Spring, Shaft		
8X-61	2	Screw, Brush Grd., Flat hd., #10-32x7/16						EB-7819S	1	Sleeve, Compression		
8X-183A	1	Washer, Plain, Contact Sc., #10						EB-8503	1	Head, Driving		
X-196	1	Washer, Lock, Contact Sc., #10						EB-8734	1	Ring, Take up		
8X-309	1	Screw, Switch Contact, Lower, Rd. hd., #10-32x1/2						EB-9911	1	Shaft & Pinion		
8X-1376	1	Nut, Terminal Stud, Hex., 5/16-24						MAB-1024G	1	Band, Cover		
MW-20A	2	Bolt, Thru						MAB-2040	1	Bearing Assy., Intermediate		
X-199	2	Washer, Lock, Thru Bolt, 1/4						MG-77A	1	Bearing, Absorbent Bronze		
<u>Comm. End Head Assembly & Parts Used With</u>									PS-1212	1	Housing Assy., Pinion	
MAW-3002A	1	Head Assy., Comm. End						MAB-88	1	Pin, Dowel		
MAD-110	1	Felt						MG-77A	1	Bearing, Absorbent Bronze		
MZ-19	4	Spring, Brush						X-715	1	Screw, Cover Band, Rd. hd., #10-32x1 1/4		
X-390	1	Oiler, Press in Type, 1/4						8X-794	1	Nut, Cover Band, Square, #10-32		
<u>Armature Assembly & Parts Used With</u>											1 2 3 4 5	
MAK-61	1	Washer, Arm. Thrust, Comm. End										
MAW-2105	1	Armature Assembly										
MAB-35	1	Spacer, Bearing Thrust										
MU-54	2	Washer, Arm. Thrust, Comm. End & Intermediate										
X-261	1	Key, Woodruff, #6										
			1	2	3	4	5					

(Issued 3-6-44)

‡ Brush Set, Service, MAW-2012S.

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

MAW-4030 STARTING MOTOR ILLUSTRATION



UNIT	A	B	C	D	E
MAW-4030	MAW-3002A	SW-2916A	PS-212	EB-9911	EB-99

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4031 STARTING MOTOR PARTS LIST

MAW-4031

Frame & Field Assembly With Terminal Stud & Parts Used With					Switch 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
(MAW-3151)	1	Frame & Field Assy.					EW-200	1	Washer, Plain				
GK-38	4	Screw, Pole Shoe					MBA-24	1	Gasket, Switch				
MAB-85	1	Bushing, Insulating, Term. Stud					MBA-31	1	Gasket, Switch				
MAK-80	1	Washer, Insulating, Term. Stud, Inner					MBA-32	1	Lever, Switch				
MAT-30	1	Insulation, Field Connection					MZ-170	1	Pin, Switch Lever				
MAW-12†	2	Brush					SW-2916B	1	Switch, Starting				
MAW-13†	2	Brush, Grounded					8X-321	2	Screw, Mtg. Switch, Rd. hd., #10-32x5/16				
MAW-58	1	Equalizer					X-1270	2	Washer, Skpf., Switch Mtg. Sc., #10				
MAW-1009B	1	Coil, Field, Left					X-1531	1	Pin, Cotter, 1/16x1/2				
MAW-1010B	1	Coil, Field, Right					<u>Miscellaneous Parts</u>						
MBA-21	1	Insulation, Contact, Lower					EBA-55	1	Bendix Drive Assy.				
MBA-22	1	Contact, Switch, Lower					EB-108	2	Washer, Lock				
MBA-25	1	Stud, Terminal, 5/16-24					EB-7805	1	Spring, Drive				
MN-21	2	Pin, Dowel					EB-7806	1	Screw, Spring, Head				
MZ-197	1	Insulation, Contact					EB-7807	1	Screw, Spring, Shaft				
8X-61	2	Screw, Brush Grd., Flat hd., #10-32x7/16					EB-7819S	1	Sleeve, Compression				
8X-183A	1	Washer, Plain, Contact Sc., #10					EB-8503	1	Head, Drive				
X-196	1	Washer, Lock, Contact Sc., #10					EB-8734	1	Ring, Take up				
8X-309	1	Screw, Switch Contact, Lower, Rd. hd., #10-32x1/2					EBA-5511	1	Shaft & Pinion				
8X-1376	1	Nut, Terminal Stud, Hex., 5/16-24					MAB-1024G	1	Band, Cover				
MW-20A	2	Bolt, Thru					MAB-2040	1	Bearing Assy., Intermediate				
X-199	2	Washer, Lock, Thru Bolt, 1/4					MG-77A	1	Bearing, Absorbent Bronze				
<u>Comm. End Head Assembly & Parts Used With</u>					PS-1213	1	Housing Assy., Pinion						
MAW-3002B	1	Head Assy., Comm. End					MAB-88	1	Pin, Dowel				
MAD-110	1	Felt					MG-77A	1	Bearing, Absorbent Bronze				
MZ-19	4	Spring, Brush					X-715	1	Screw, Cover Band, Rd. hd., #10-32x1 1/4				
X-390	1	Oiler, Press in Type, 1/4					8X-794	1	Nut, Cover Band, Square, #10-32				
<u>Armature Assembly & Parts Used With</u>													
MAK-61	1	Washer, Arm. Thrust, Comm. End											
MAW-2105	1	Armature Assy.											
MAB-35	1	Spacer, Bearing Thrust											
MU-54	2	Washer, Arm. Thrust, Comm. End & Intermediate											
X-261	1	Key, Woodruff, #6											
		1	2	3	4	5							

(Issued 3-6-44)

† Brush Set, Service, MAW-2012S.

Printed in U. S. A.

"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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4034 STARTING MOTOR PARTS LIST

MAW-4034

<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
(MAW-2165)	1	Frame & Field Assy.	MAK-61	1	Washer, Arm. Thrust, C.E.
GK-38	4	Screw, Pole Shoe	MAW-2105	1	ARMATURE ASSEMBLY
MAB-31	1	Washer, Ins., Term. Stud, Outer	MAB-35	1	Spacer, Brg. Thrust
MAB-85	1	Bushing, Ins., Term. Stud	MU-54	2	Washer, Thrust, C.E. & Intermediate
MAK-80	1	Washer, Ins., Term. Stud, Inner	X-261	1	Key, Woodruff, #6
MAT-28	1	Stud, Terminal	<u>Miscellaneous Parts</u>		
MAT-30	1	Insulation, Field Conn.	EBA-64	1	BENDIX DRIVE ASSY.
MAW-12†	2	Brush	EB-108	2	Lockwasher, Spring Screw
MAW-13†	2	Brush, Grounded	EB-7806	1	Screw, Spring, Head
MAW-59	1	Equalizer	EB-7807	1	Screw, Spring, Shaft
MAW-3005S	1	FIELD COIL PACKAGE	EB-7819S	1	Sleeve, Compression
MAW-1009	1	Coil, Field, Left	EB-8503	1	Head, Drive
MAW-1010	1	Coil, Field, Right	EB-8705	1	SPRING, DRIVE
MN-21	2	Pin, Dowel	EB-8734	1	Ring, Take-Up
MU-37	1	Washer, Plain, Term. Stud, 5/16	EB-9211	1	Shaft & Pinion
8X-61	2	Screw, Brush Ground, Flat Hd. #10-32x7/16	MAB-2040	1	BEARING ASSY., INTERMEDIATE
12X-1014	2	Lockwasher, Term. Stud, 5/16	MG-77A	1	Bearing, Abs. Bronze
8X-1376	2	Nut, Term. Stud, Hex., 5/16-24	MAW-24	1	Band, Cover
MW-20A	2	Bolt, Thru	PS-1102A	1	Housing Assy., Pinion
12X-199	2	Lockwasher, Thru Bolt, 1/4	MAB-88	1	Pin, Dowel
<u>Comm. End Head Assembly & Parts Used With</u>			MG-77A	1	BEARING, ABS. BRONZE
MAW-2002F	1	Head Assy., Comm. End	X-714	1	Screw, Cover Band, Rd. Hd., #10-32x1 1/2
MAD-110	1	Felt	8X-794	1	Nut, Cover Band, Square #10-32
MZ-19	4	Spring, Brush	† BRUSH SET, SERVICE, MAW-2012S.		

UNIT	APPLICATION
MAW-4034	Continental, White Motor

(Issued 10-20-49)

Printed in U. S. A.

File in
Equipment & Parts List Binder

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4038 STARTING MOTOR PARTS LIST

MAW-4038

Frame & Field Assembly with Terminal Stud & Parts Used With

Part No.	No. Used	Name of Part
(MAW-2173)	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAB-31	1	Washer, Ins., Term. Stud, Outer
MAB-85	1	Bushing, Ins., Term. Stud
MAK-80	1	Washer, Ins., Term. Stud, Inner
MAT-28	1	Stud, Terminal
MAT-30	1	Insulation, Field Connection
MAW-12†	2	Brush
MAW-13†	2	Brush, Grounded
MAW-59	1	Equalizer
MAW-3005S	1	Field Coil Package
MAW-1009	1	Coil, Field, Left
MAW-1010	1	Coil, Field, Right
MN-21	2	Pin, Dowel
MU-37	1	Washer, Plain, Term. Stud, 5/16
8X-61	2	Screw, Brush Ground, Flat Hd. #10-32x7/16
X-1014	2	Lockwasher, Term. Stud, 5/16
8X-1376	2	Nut, Term. Stud, Hex. 5/16-24
MW-20A	2	Bolt, Thru
X-199	2	Lockwasher, Thru Bolt, 1/4

Comm. End Head Assembly & Parts Used With

MAW-2002F	1	Head Assy., Comm. End
MAD-110	1	Felt
MZ-19	4	Spring, Brush

Armature Assembly & Parts Used With

MAK-61	1	Washer, Arm. Thrust, C.E.
MAW-2105	1	Armature Assembly
MAB-35	1	Spacer, Brg. Thrust
MU-54	2	Washer, Arm. Thrust, C.E. & Intermediate
X-261	1	Key, Woodruff, #6

Miscellaneous Parts

Part No.	No. Used	Name of Part
EBA-64	1	Bendix Drive Assy.
EB-108	2	Lockwasher
EB-7806	1	Screw, Spring, Head
EB-7807	1	Screw, Spring, Shaft
EB-7819S	1	Sleeve, Compression
EB-8503	1	Head, Drive
EB-8705	1	Spring, Drive
EB-8734	1	Ring, Take-Up
EB-9211	1	Shaft & Pinion
MAB-2040	1	Bearing Assy., Intermediate
MG-77A	1	Bearing, Abs. Bronze
MAW-24	1	Band, Cover
PS-1102B	1	Housing Assy., Pinion
MAB-88	1	Pin, Dowel
MG-77A	1	Bearing, Abs. Bronze
X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32

† Brush Set, Service MAW-2012S.

UNIT	APPLICATION
MAW-4038	Continental

(Issued 7-14-48)

Printed in U. S. A.

File in
Equipment & Parts List Binder

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4039 STARTING MOTOR PARTS LIST

MAW-4039

Frame & Field Assembly with Terminal Stud & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
(MAW-2178)	1	Frame & Field Assy.				
GK-38	4	Screw, Pole Shoe				
MAB-31	1	Washer, Term. Stud Ins., Outer				
MAB-85	1	Bushing, Term. Stud Ins.				
MAK-80	1	Washer, Term. Stud Ins., Inner				
MAT-28	1	Stud, Terminal				
MAT-30	1	Insulation, Field Conn.				
MAW-12†	2	Brush				
MAW-13†	2	Brush, Grounded				
MAW-59	1	Equalizer				
MAW-1009	1	Coil, Field, Left				
MAW-1010	1	Coil, Field, Right				
MN-21	2	Pin, Dowel				
MU-37	1	Washer, Term. Stud Plain, 5/16				
8X-61	2	Screw, Brush Ground, Flat Hd. #10-32x7/16				
X-1014	2	Lockwasher, Term. Stud, 5/16				
8X-1376	2	Nut, Term. Stud, Hex., 5/16-24				
MW-20A	2	Bolt, Thru				
X-199	2	Washer, Lock, Thru Bolt, 1/4				

Comm. End Head Assembly & Parts Used With

MAW-2002F	1	Head Assy., Comm. End				
MAD-110	1	Felt				
MZ-19	4	Spring, Brush				

Armature Assembly & Parts Used With

MAK-61	1	Washer, Arm. Thrust, C.E.				
MAW-2063	1	Armature Assembly				
MAB-35	1	Spacer, Armature Shaft				
MU-54	2	Washer, Arm. Thrust, C.E. & Intermediate				
X-261	1	Key, Woodruff, #6				
		1	2	3	4	5

Switch Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAW-66R	1	Connector, Switch				
SS-4001	1	Switch, Starting				
12X-196	1	Washer, Lock, #10				
8X-832	2	Nut, Hex., 5/16-24				
12X-1014	2	Washer, Lock, 5/16				
8X-173	1	Nut, Hex., #10-32				
8X-321	2	Screw, Mtg., Switch, Rd. Hd., #10-32x5/16				
X-1270	2	Washer, Skpf., Switch Mtg. Screw, #10				

Miscellaneous Parts

EB-87	1	Bendix Drive Assembly				
EB-108	2	Washer, Lock				
EB-7806	1	Screw, Spring, Head				
EB-7807	1	Screw, Spring, Shaft				
EB-7819S	1	Sleeve, Compression				
EB-8503	1	Head, Driving				
EB-8705	1	Spring, Drive				
EB-8711	1	Shaft & Pinion				
EB-8734	1	Ring, Take-Up				
MAB-2040	1	Bearing Assy., Intermediate				
MG-77A	1	Bearing, Abs. Bronze				
MAW-24	1	Band, Cover				
PS-1249	1	Housing Assy., Pinion				
MAB-88	1	Pin, Dowel				
MP-41A	1	Bearing, Abs. Bronze				
X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2				
8X-794	1	Nut, Cover Band, Square, #10-32				
		1	2	3	4	5

† Brush Set, Service MAW-2012S.

UNIT	APPLICATION
MAW-4039	Continental

Printed in U. S. A.

(Issued 8-18-47)

File in
Equipment & Parts List Binder

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4041 STARTING MOTOR PARTS LIST

MAW-4041

Frame & Field Assembly & Parts Used With			Miscellaneous Parts		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
(MAW-2182)	1	Frame & Field Assy.	EBB-8	1	BENDIX DRIVE ASSEMBLY
GK-38	4	Screw, Pole Shoe	EBA-1213	1	Spring, Anti-Drift †
MAB-31	1	Washer, Outer Term. Stud Insulating	EBA-1225	1	Spring, Meshing
MAB-85	1	Bushing, Term. Stud Ins.	EBA-1233	1	Ring, Retaining
MAK-80	1	Washer, Inner Term. Stud Insulating	EBA-2006	1	Pin, Locating
MAT-30	1	Insulation, Field Connection	EBA-2007	2	Plate, Spring Anchor
MAW-12‡	2	Brush, Insulated	EBA-2008	1	Ring, Lock
MAW-13‡	2	Brush, Grounded	EBA-2031	1	Shaft
MAW-59	1	Equalizer	EBA-2105	1	SPRING, DRIVE
MAW-183	1	Stud, Terminal, 5/16-18	EBB-832	1	Pinion
MAW-3005S	1	FIELD COIL PACKAGE	MAW-24	1	Band, Cover
MAW-1009	1	Coil, Field, Left	MAW-2129	1	BRG. ASSY., INTERMEDIATE
MAW-1010	1	Coil, Field, Right	MAW-130	1	Bearing, Abs. Bronze
MN-21	2	Pin, Dowel	PS-1252	1	Housing Assy., Pinion
MU-37	1	Washer, Plain, Term Stud, 5/16	MAW-131	1	Pin, Dowel
8X-61	2	Screw, Brush Grd., Flat Hd. #10-32x7/16	MG-77A	1	BEARING, ABSORBENT BRONZE
8X-164	2	Nut, Term. Stud, Hex. 5/16-18	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
12X-1014	2	Lockwasher, Term. Stud, 5/16	8X-794	1	Nut, Cover Band, Square #10-32
MW-20A	2	Bolt, Thru			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
Comm. End Head Assembly & Parts Used With					
MAW-2002F	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
Armature Assembly & Parts Used With					
MAK-61	1	Washer, Thrust, Comm. End			
MAW-2128	1	ARMATURE			
MU-54	*	Washer, Thrust, C.E. & D.E., 1/32" Thick			
MU-54A	*	Washer, Thrust, C.E. & D.E., 1/64" Thick			
MU-54B	*	Washer, Thrust, C.E. & D.E., 3/64" Thick			
X-261	1	Key, Woodruff, #6			

‡ BRUSH SET, SERVICE. MAW-2012S.

* Use as required.

UNIT	APPLICATION
MAW-4041	Dodge; Plymouth (Can.)

(Issued 4-14-50)

Printed in U. S. A.

File in
Equipment & Parts List Binder

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4042 STARTING MOTOR PARTS LIST

MAW-4042

Frame & Field Assembly With Terminal Stud & 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	
(MAW-2173)	1	Frame & Field Assy.					MAK-61	1	Washer, Steel					
GK-38	4	Screw, Pole Shoe					MAW-2063	1	ARMATURE ASSY.					
MAB-31	1	Washer, Ins., Term. Stud, Outer					MAB-35	1	Spacer, Armature Shaft					
MAB-85	1	Bushing, Ins., Term. Stud					MU-54	2	Washer, Arm. Thrust, C.E. & Intermediate					
MAK-80	1	Washer, Ins., Term. Stud, Inner					X-261	1	Key, Woodruff, #6					
MAT-28	1	Stud, Terminal					<u>Miscellaneous Parts</u>							
MAT-30	1	Insulation, Field Connection					EB-87	1	BENDIX DRIVE ASSY.					
MAW-12†	2	Brush					EB-108	2	Washer, Lock					
MAW-13†	2	Brush, Grounded					EB-7806	1	Screw, Spring, Head					
MAW-59	1	Equalizer					EB-7807	1	Screw, Spring, Shaft					
MAW-1009	1	Coil, Field, Left					EB-7819S	1	Sleeve, Compression					
MAW-1010	1	Coil, Field, Right					EB-8503	1	Head, Driving					
MN-21	2	Pin, Dowel					EB-8705	1	SPRING, DRIVE					
MU-37	1	Washer, Plain, Term. Stud, 5/16					EB-8711	1	Shaft & Pinion					
8X-61	2	Screw, Brush Ground, Flat Hd., #10-32x7/16					EB-8734	1	Ring, Take-Up					
X-1014	2	Lockwasher, Term. Stud, 5/16					MAB-2040	1	BEARING ASSY., INTERMEDIATE					
8X-1376	2	Nut, Term. Stud, Hex., 5/16- 24					MG-77A	1	Bearing, Abs. Bronze					
MW-20A	2	Bolt, Thru					MAW-24	1	Band, Cover					
12X-199	2	Lockwasher, Thru Bolt, 1/4					PS-1255	1	Housing Assy., Pinion					
<u>Comm. End Head Assembly & Parts Used With</u>						MAB-88	1	Pin, Dowel						
MAW-2002A	1	Head Assy., Comm. End					MP-41A	1	Bearing					
MAD-110	1	Felt					8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2					
MZ-19	4	Spring, Brush					8X-794	1	Nut, Cover Band, Square #10-32 1 2 3 4 5					
X-390	1	Oiler												
		1	2	3	4	5								

† BRUSH SET, Service MAW-2012S.

Unit	Application
MAW-4042	Brockway

Printed in U. S. A.

(Issued 2-19-47)
File in
Equipment & Parts List Binder

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4043 STARTING MOTOR PARTS LIST

MAW-4043

<u>Frame & Field Assembly With Terminal Stud & Parts Used With</u>					<u>Switch 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		
(MAW-2178A)	1	Frame & Field Assy.						MAW-66R	1	Connector, Switch						
GK-38	4	Screw, Pole Shoe						SS-4001	1	Solenoid Starting Switch						
MAB-31	1	Washer, Term. Stud Ins., Outer						12X-196	1	Lockwasher, #10						
MAB-85	1	Bushing, Term. Stud Ins.						8X-832	2	Nut, Hex., 5/16-24						
MAK-80	1	Washer, Term. Stud Ins., Inner						12X-1014	2	Lockwasher, 5/16						
MAT-28	1	Stud, Terminal						8X-1372	1	Nut, Hex., #10-32						
MAT-30	1	Insulation, Field Connection						8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16						
MAW-12†	2	Brush						X-1270	2	Washer, Switch Mtg., Skpf. #10						
MAW-13†	2	Brush, Grounded						<u>Miscellaneous Parts</u>								
MAW-59	1	Equalizer						EBA-33	1	Bendix Drive Assembly						
MAW-1009	1	Coil, Field, Left						EBA-1213	1	Spring, Anti-Drift						
MAW-1010	1	Coil, Field, Right						EBA-1225	1	Spring, Meshing						
MN-21	2	Pin, Dowel						EBA-1232	1	Pinion						
MU-37	1	Washer, Term. Stud Plain, 5/16						EBA-1233	1	Ring, Retaining						
8X-61	2	Screw, Brush Ground, Flat Hd. #10-32x7/16						EBA-2006	1	Locating Pin						
X-1014	2	Lockwasher, Term. Stud, 5/16						EBA-2007	2	Plate, Spring Anchor						
8X-1376	2	Nut, Term. Stud Hex., 5/16-24						EBA-2008	1	Lock Ring						
MW-20A	2	Bolt, Thru						EBA-2031	1	Shaft						
12X-199	2	Lockwasher, Thru Bolt, 1/4						EBA-2105	1	Spring, Drive						
<u>Comm. End Head Assembly & Parts Used With</u>										MAW-24	1	Band, Cover				
MAW-2002F	1	Head Assy., Comm. End						MAW-2129	1	Brg. Assy., Intermediate						
MAD-110	1	Felt						MAW-130	1	Bearing, Absorbent Bronze						
MZ-19	4	Spring, Brush						PS-1252A	1	Housing Assy., Pinion						
<u>Armature Assembly & Parts Used With</u>										MAW-131	1	Pin, Dowel				
MAK-61	1	Washer, Arm. Thrust, C.E.						MG-77A	1	Bearing, Absorbent Bronze						
MAW-2128	1	Armature						8X-715	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/4						
MU-54	*	Washer, Thrust, 1/32" thick						8X-794	1	Nut, Cover Band, Square #10-32						
MU-54A	*	Washer, Thrust, 1/64" thick								1	2	3	4	5		
MU-54B	*	Washer, Thrust, 3/64" thick														
X-261	1	Key, Woodruff, #6														
			1	2	3	4	5									

* Use as required.

† Brush Set, Service MAW-2012S.

Unit	Application
MAW-4043	Kaiser, Frazer

(Issued 10-22-46)

Printed in U. S. A.

File in
Equipment & Parts List Binder

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4044 STARTING MOTOR PARTS LIST

MAW-4044

Frame & Field Assembly With Terminal Stud & Parts Used With					Switch 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
(MAW-2036)	1	Frame & Field Assy.					SW-2677A	1	STARTING SWITCH				
DK-45	1	Washer, Ins., Term. Stud					12X-201	1	Washer, Lock, 3/8				
GK-38	4	Screw, Pole Shoe					8X-830	1	Nut, Hex., 3/8-16				
MAT-30	1	Insulation, Field Connection					8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16				
MAW-12†	2	Brush					X-1270	2	Washer, Switch Mtg., Skpf. #10				
MAW-13†	2	Brush, Grounded					<u>Starter Clutch Assembly & Parts Used With</u>						
MAW-35	1	Stud, Terminal					MAD-95	1	Retainer, Yoke Spring				
MAW-37	1	Bushing, Ins., Term. Stud					MAW-161	1	Spring, Yoke				
MAW-39	1	Ins., Block					MAW-2197	1	Yoke				
MAW-51	1	Insulation Term. Stud					MAW-3185	1	STARTER CLUTCH				
MAW-58	1	Equalizer					MAX-52	1	Pin, Yoke				
MAW-1009B	1	Coil, Field, Left					8X-179	1	Nut, Yoke Pivot, Hex. 3/8-16				
MAW-1010B	1	Coil, Field, Right					12X-201	1	Lockwasher, Yoke Pivot, 3/8				
MN-21	2	Pin, Dowel					<u>Miscellaneous Parts</u>						
SW-763	1	Contact, Switch, Lower					MAW-24	1	Band, Cover				
8X-61	2	Screw, Brush Grounded, Flat Hd., #10-32x7/16					PS-1194C	1	Housing Assy., Pinion				
8X-830	1	Nut, Term. Stud, Hex., 3/8-16					MP-41A	1	BEARING, ABS. BRONZE				
MW-20A	2	Bolt, Thru					8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2				
12X-199	2	Lockwasher, Thru Bolt, 1/4					8X-794	1	Nut, Cover Band, Square #10-32 1 2 3 4 5				
<u>Comm. End Head Assembly & Parts Used With</u>													
MAW-2002F	1	Head Assy., Comm. End											
MAD-110	1	Felt											
MZ-19	4	Spring, Brush											
<u>Armature Assembly & Parts Used With</u>													
MAD-96	1	Washer, Arm. Thrust, C.E.											
MAW-2030	1	ARMATURE ASSY.											
MAW-31	1	Spacer, Armature Shaft											
MN-18	1	Washer, Thrust, D.E.											
MU-54	*	Washer, Thrust, 1/32" thick											
MU-54A	*	Washer, Thrust, 1/64" thick											
MU-54B	*	Washer, Thrust, 3/64" thick 1 2 3 4 5											

* Use as required.

† BRUSH SET, Service MAW-2012S.

Unit	Application
MAW-4044	Dodge (Truck)

(Issued 2-19-47)
File in
Equipment & Parts List Binder

Printed in U. S. A.

"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

MAW-4045M STARTING MOTOR PARTS LIST

MAW-4045M

Frame & Field Assembly With Terminal Stud
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
GT-20A	2	Bolt, Thru					
(MAW-2166)	1	Frame & Field Assy.					
GK-38C	4	Screw, Pole Shoe					
MAT-30	1	Insulation, Field Connection					
MAW-12†	2	Brush					
MAW-13†	2	Brush, Grounded					
MAW-28A	1	Stud, Terminal					
MAW-37A	1	Bushing, Ins., Term. Stud					
MAW-59	1	Equalizer					
MAW-1009	1	Coil, Field, Left					
MAW-1010	1	Coil, Field, Right					
MAX-35	1	Washer, Ins., Term. Stud, Outer					
MN-21A	2	Pin, Dowel					
MN-47B	1	Washer, Term. Stud, 3/8					
WSE-41	1	Inner					
12X-201	2	Lockwasher, Term. Stud, 3/8					
8X-2845	2	Nut, Term. Stud, Hex. 3/8-16					
8X-2889	2	Screw, Brush Ground, Flat Hd. #10-32x7/16					
12X-199	2	Lockwasher, Thru Bolt, 1/4					

Comm. End Head Assembly & Parts Used With

MAW-2002E	1	Head Assy., Comm. End
MAD-110	1	Felt
MZ-19A	4	Spring, Brush

Armature Assembly & Parts Used With

MAK-61A	1	Washer, Arm. Thrust, C.E.
MAW-2179M	1	ARMATURE
MU-54F	*	Washer, Arm. Thrust C.E. 1/32" thick
MU-54G	*	Washer, Arm. C.E. 1/64" thick
MU-54J	*	Washer, Arm. C.E. .046" thick
X-261	1	Key, Woodruff, #6

Switch Assembly & Parts Used With

MAX-89 R	1	Connector
SSP-4001M	1	SWITCH, SOLENOID
12X-196	1	Washer, Lock, #10
12X-1014	2	Washer, Lock, 5/16
8X-2843	2	Nut, Hex., 5/16-24
8X-2853	1	Nut, Hex., #10-32
X-20	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
X-2857	2	Washer, Skpf., Switch Mtg., #10
		1 2 3 4 5

Miscellaneous Parts

Part No.	No. Used	Name of Part					
			1	2	3	4	5
EBA-79	1	BENDIX DRIVE ASSY.					
EBA-4808	1	Ring, Lock					
EBA-4833	1	Ring, Retaining					
EBA-7213	1	Spring, Anti-Drift					
EBA-7225	1	Spring, Meshing					
EBA-7905	1	SPRING, DRIVE					
EBA-7906	1	Pin, Locating					
EBA-7907	2	Plate, Spring Anchor					
EBA-7931	1	Shaft, Screw					
EBA-7932	1	Pinion					
MAB-1024N	1	Band, Cover					
MAX-80	1	Gasket, Int. Bearing					
MAX-1078	1	INTERMEDIATE BRG. & OIL SEAL					
MN-18	1	Washer, Thrust, D.E.					
MN-18B	*	Washer, Arm. Thrust, D.E. .032" thick					
MN-18C	*	Washer, Arm. Thrust, D.E. .015" thick					
MN-18D	*	Washer, Arm. Thrust, D.E. .042" thick					
PS-1250A	1	Housing Assy., Pinion					
MP-41A	1	BEARING, ABSORBNET BRONZE					
19X-933	3	Screw, Attaching, Int. Bearing, Flat Hd. #10-32x9/16					
X-2873	1	Screw, Cover Band Rd. Hd., #10-32x1 1/4					
X-2875	1	Nut, Cover Band, Square #10-32					
		1 2 3 4 5					

* Used as required.

† Brush Set, Service MAW-2012S.

UNIT	APPLICATION
MAW-4045M	Chrysler (Marine)

(Issued 1-21-48)

Printed in U. S. A.

File in
Equipment & Parts List Binder

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4046M STARTING MOTOR PARTS LIST

MAW-4046M

Frame & Field Assembly With Terminal Stud & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GT-20A	2	Bolt, Thru				
(MAW-3166)	1	Frame & Field Assy.				
GK-38C	4	Screw, Pole Shoe				
MAT-30	1	Insulation, Field Connection				
MAW-12†	2	BRUSH				
MAW-13†	2	BRUSH				
MAW-28A	1	Stud, Terminal				
MAW-37A	1	Bushing, Ins., Term. Stud				
MAW-59	1	Equalizer				
MAW-1009	1	Coil, Field, Left				
MAW-1010	1	Coil, Field, Right				
MAX-35	1	Washer, Ins., Term. Stud, Outer				
MN-21A	1	Pin, Dowel				
MN-47B	1	Washer, Term. Stud, 3/8"				
WSE-41	1	Washer, Ins., Term. Stud, Inner				
12X-201	2	Lockwasher, Term. Stud, 3/8"				
8X-2845	2	Nut, Term. Stud, Hex. 3/8-16				
8X-2889	2	Screw, Brush Ground, Flat Hd., #10-32x7/16				
12X-199	2	Lockwasher, Thru Bolt, 1/4				

Comm. End Head Assembly & Parts Used With

MAW-3002C	1	Head Assy., Comm. End				
MAD-110	1	Felt				
MZ-19A	4	Spring, Brush				

Armature Assembly & Parts Used With

MAK-61A	1	Washer, Arm. Thrust, C.E.				
MAW-2179M	1	ARMATURE				
MU-54F	*	Washer, Arm. Thrust C.E. 1/32" thick				
MU-54G	*	Washer, Arm. C.E. 1/64" thick				
MU-54J	*	Washer, Arm. C.E. .046" thick				
X-261	1	Key, Woodruff, #6				

Switch Assembly & Parts Used With

MAX-89R	1	Connector				
SSP-4001M	1	SWITCH SOLENOID				
12X-196	1	Washer, Lock, #10				
12X-1014	2	Washer, Lock, 5/16				
8X-2843	2	Nut, Hex., 5/16-24				
8X-2853	1	Nut, Hex., #10-32				
X-20	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16				
X-2857	2	Washer, Skpf., Switch Mtg., #10				
		1	2	3	4	5

Miscellaneous Parts

Part No.	No. Used	Name of Part				
		1	2	3	4	5
EBA-87	1	BENDIX DRIVE ASSEMBLY				
EBA-4805	1	SPRING, DRIVE				
EBA-4807	2	Plate, Spring Anchor				
EBA-4808	1	Lock Ring				
EBA-4813	1	Spring, Anti-Drift				
EBA-4825	1	Spring, Meshing				
EBA-4833	1	Ring, Retaining				
EBA-7906	1	Pin, Locating				
EBA-8731	1	Shaft				
EBA-8732	1	Pinion				
MAB-1024N	1	Band, Cover				
MAX-80	1	Gasket, Int. Bearing				
MAX-1078	1	INTERMEDIATE BRG; & OIL SEAL				
MN-18	1	Washer, Thrust, D.E.				
MN-18B	*	Washer, Arm. Thrust, D.E. .032" thick				
MN-18C	*	Washer, Arm. Thrust, C.E. .015" thick				
MN-18D	*	Washer, Arm. Thrust, D.E. .042" thick				
PS-1250A	1	Housing Assy., Pinion				
MP-41A	1	Bearing, Absorbent Bronze				
19X-933	3	Screw, Attaching, Int. Bearing, Flat Hd. #10-32x9/16				
X-2873	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/4				
X-2875	1	Nut, Cover Band, Square, #10-32				
		1	2	3	4	5

* Used as required.

† BRUSH SET, Service MAW-2012S.

UNIT	APPLICATION
MAW-4046M	Chrysler (Marine)

(Issued 1-21-48)

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File in
Equipment & Parts List Binder

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4047 STARTING MOTOR PARTS LIST

MAW-4047

<u>Frame & Field Assembly With Terminal Stud & Parts Used With</u>						<u>Switch 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	
(MAW-2036B)	1	Frame & Field Assy.					SW-2813	1	Switch, Starter					
DK-45	1	Washer, Ins., Term. Stud					12X-201	1	Washer, Lock, 3/8					
GK-38	4	Screw, Pole Shoe					8X-830	1	Nut, Hex., 3/8-16					
MAT-30	1	Insulation, Field Connection					8X-321	2	Screw, Switch Mtg., Rd. Hd., #10-32x5/16					
MAW-12†	2	Brush					X-1270	2	Washer, Switch Mtg., Skpf. #10					
MAW-13†	2	Brush, Grounded					<u>Starter Clutch Assembly & Parts Used With</u>							
MAW-35	1	Stud, Terminal					MAW-3140A	1	Starter Clutch					
MAW-37	1	Bushing, Ins., Term. Stud					MAX-2087	1	Yoke					
MAW-39	1	Ins. Block					MZ-175	1	Screw, Pivot					
MAW-51	1	Insulation, Term. Stud					8X-179	1	Nut, Yoke Pivot, Hex. 3/8-16					
MAW-58	1	Equalizer					12X-201	1	Lockwasher, Yoke Pivot, 3/8					
MAW-1009B	1	Coil, Field, Left					<u>Miscellaneous Parts</u>							
MAW-1010B	1	Coil, Field, Right					MAW-24	1	Band, Cover					
MN-21	2	Pin, Dowel					PS-1194D	1	Housing Assy., Pinion					
SW-764	1	Contact Switch, Lower					MP-41A	1	Bearing, Abs. Bronze					
8X-61	2	Screw, Brush Ground, Flat Hd., #10-32x7/16					8X-715	1	Screw, Cover Band, Rd. Hd., #10-32x1 1/4					
8X-830	1	Nut, Term. Stud, Hex., 3/8-16					8X-794	1	Nut, Cover Band, Square, #10-32					
MW-20A	2	Bolt, Thru							1	2	3	4	5	
12X-199	2	Lockwasher, Thru Bolt, 1/4												
<u>Comm. End Head Assembly & Parts Used With</u>														
MAW-2002F	1	Head Assy., Comm. End												
MAD-110	1	Felt												
MZ-19	4	Spring, Brush												
<u>Armature Assembly & Parts Used With</u>														
MAD-96	1	Washer, Armature Thrust, C.E.												
MAW-2030	1	Armature Assembly												
MAW-31	1	Spacer, Armature Shaft												
MN-18	1	Washer, Thrust, D.E.												
MU-54	*	Washer, Thrust 1/32" thick												
MU-54A	*	Washer, Thrust, 1/64" thick												
MU-54B	*	Washer, Thrust, 3/64" thick												
		1	2	3	4	5								

* Use as required.

† Brush Set, Service, MAW-2012S.

(Issued 4-23-46)

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File in
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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4051 STARTING MOTOR PARTS LIST

MAW-4051

<u>Frame & Field Assembly With Terminal Stud & Parts Used With</u>			<u>Miscellaneous Parts</u>		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
(MAW-2173)	1	Frame & Field Assy.	EB-87	1	Bendix Drive Assembly
GK-38	4	Screw, Pole Shoe	EB-108	2	Washer, Lock
MAB-31	1	Washer, Ins., Term. Stud, Outer	EB-7806	1	Screw, Spring, Head
MAB-85	1	Bushing, Ins., Term. Stud	EB-7807	1	Screw, Spring, Shaft
MAK-80	1	Washer, Ins., Term. Stud, Inner	EB-7819S	1	Sleeve, Compression
MAT-28	1	Stud, Terminal	EB-8503	1	Head, Driving
MAT-30	1	Insulation, Field Connection	EB-8705	1	Spring, Drive
MAW-12†	2	Brush	EB-8711	1	Shaft & Pinion
MAW-13†	2	Brush, Grounded	EB-8734	1	Ring, Take Up
MAW-59	1	Equalizer	MAB-2040	1	Bearing Assy., Intermediate
MAW-3005S	1	Field Coil Package	MG-77A	1	Bearing, Abs. Bronze
MAW-1009	1	Coil, Field, Left	MAW-24	1	Band, Cover
MAW-1010	1	Coil, Field, Right	PS-1249	1	Housing Assy., Pinion
MN-21	2	Pin, Dowel	MAB-88	1	Pin, Dowel
MU-37	1	Washer, Plain, Term. Stud, 5/16	MP-41A	1	Bearing, Abs. Bronze
8X-61	2	Screw, Brush Ground, Flat Hd. #10-32x7/16	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
X-1014	2	Lockwasher, Term. Stud, 5/16	8X-794	1	Nut, Cover Band, Square #10-32
8X-1376	2	Nut, Term. Stud, Hex. 5/16-24			
MW-20A	2	Bolt, Thru			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
<u>Comm. End Head Assembly & Parts Used With</u>					
MAW-2002F	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
<u>Armature Assembly & Parts Used With</u>					
MAK-61	1	Washer, Arm. Thrust, C.E.			
MAW-2063	1	Armature Assy.			
MAB-35	1	Spacer, Armature Shaft			
MU-54	2	Washer, Thrust, 1/32" Thick			
X-261	1	Key, Woodruff, #6			

† Brush Set, Service MAW-2012S.

UNIT	APPLICATION
MAW-4051	Brockway

(Issued 7-14-48)

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

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4052 STARTING MOTOR PARTS LIST

MAW-4052

Frame & Field Assembly With Terminal Stud
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
(MAW-2036)	1	Frame & Field Assy.					
DK-45	1	Washer, Ins., Term. Stud					
GK-38	4	Screw, Pole Shoe					
MAT-30	1	Insulation, Field Connection					
MAW-12 †	2	Brush					
MAW-13 †	2	Brush, Grounded					
MAW-35	1	Stud, Terminal					
MAW-37	1	Bushing, Ins., Term. Stud					
MAW-39	1	Insulating Block					
MAW-51	1	Insulation Term. Stud					
MAW-58	1	Equalizer					
MAW-1009B	1	Coil, Field, Left					
MAW-1010B	1	Coil, Field, Right					
MN-21	2	Pin, Dowel					
SW-763	1	Contact, Switch, Lower					
8X-61	2	Screw, Brush Grounded, Flat Hd. #10-32x7/16					
8X-830	1	Nut, Term. Stud, Hex. 3/8-16					
MW-20A	2	Bolt, Thru					
12X-199	2	Lockwasher, Thru Bolt, 1/4					

Comm. End Head Assembly & Parts Used With

MAW-2002F	1	Head Assy., Comm. End
MAD-110	1	Felt
MZ-19	4	Spring, Brush

Armature Assembly & Parts Used With

MAD-96	1	Washer, Arm. Thrust, C.E.
MAW-2030	1	ARMATURE ASSY.
MAW-31	1	Spacer, Armature Shaft
MU-54	*	Washer, Thrust, 1/32" thick
MU-54A	*	Washer, Thrust, 1/64" thick
MU-54B	*	Washer, Thrust, 3/64" thick
		1 2 3 4 5

Switch Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
SW-2813	1	STARTING SWITCH					
12X-201	1	Lockwasher, 3/8					
8X-830	1	Nut, Hex. 3/8-16					
8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16					
X-1270	2	Washer, Switch Mtg., Skpf. #10					

Starter Clutch Assembly & Parts Used With

MAB-95	1	Retainer, Yoke Spring
MAW-161	1	Spring, Yoke
MAW-2206	1	Yoke
MAW-3132	1	STARTER CLUTCH
MAX-52	1	Pin, Yoke
8X-179	1	Nut, Yoke Pivot, Hex. 3/8-16
12X-201	1	Lockwasher, Yoke Pivot, 3/8

Miscellaneous Parts

MAW-24	1	Band, Cover
MN-18	1	Washer, Thrust, D.E.
PS-1194C	1	Housing Assy., Pinion
MP-41A	1	BEARING, ABS. BRONZE
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32
		1 2 3 4 5

† BRUSH SET, SERVICE MAW-2012S.

* Use as Required.

UNIT	APPLICATION
MAW-4052	Dodge Truck

(Issued 2-24-48)

Printed in U. S. A.

File in
Equipment & Parts List Binder

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4054,A STARTING MOTOR PARTS LIST

MAW-4054,A
(Issued 1-15-51)

Frame & Field Assembly & Parts Used With			Miscellaneous Parts		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
(MAW-2173)	1	Frame & Field Assy.	EBA-33	1	BENDIX DRIVE ASSY.
GK-38	4	Screw, Pole Shoe	EBA-1213	1	Spring, Anti-Drift
MAB-31	1	Washer, Ins., Term. Stud, Outer	EBA-1225	1	Spring, Meshing
MAB-85	1	Bushing, Ins., Term. Stud	EBA-1232	1	Pinion
MAK-80	1	Washer, Ins., Term. Stud, Inner	EBA-1233	1	Ring, Retaining
MAT-28	1	Stud, Terminal	EBA-2006	1	Pin, Locating
MAT-30	1	Insulation, Field Connection	EBA-2007	2	Plate, Spring Anchor
MAW-12†	2	Brush	EBA-2008	1	Ring, Lock
MAW-13†	2	Brush, Grounded	EBA-2031	1	Shaft
MAW-59	1	Equalizer	EBA-2105	1	SPRING, DRIVE
MAW-3005S	1	FIELD COIL PACKAGE	**	1	Band, Cover
MAW-1009	1	Coil, Field, Left	MAW-2129	1	BEARING ASSY., INTERMEDIATE
MAW-1010	1	Coil, Field, Right	MAW-130	1	Bearing, Abs. Bronze
MN-21	2	Pin, Dowel	PS-1252A	1	Housing Assy., Pinion
MU-37	1	Washer, Plain, Term. Stud, 5/16	MAW-131	1	Pin, Dowel
8X-61	2	Screw, Brush Ground, Flat Hd. #10-32x7/16	MG-77A	1	BEARING, ABS. BRONZE
X-1014	2	Lockwasher, Term. Stud, 5/16	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-1376	2	Nut, Term. Stud, Hex. 5/16-24	8X-794	1	Nut, Cover Band, Square #10-32
MW-20A	2	Bolt, Thru	† BRUSH SET, SERVICE MAW-2012S.		
12X-199	2	Lockwasher, Thru Bolt, 1/4	* Use as Required.		
<u>Comm. End Head Assembly & Parts Used With</u>			<u>** See table following parts list for part number applying to assembly wanted.</u>		
MAW-2002F	1	Head Assy., Comm. End	Assembly No.	Band, Cover	
MAD-110	1	Felt	MAW-4054	MAW-24	
MZ-19	4	Spring, Brush	MAW-4054A	MAX-1024	
<u>Armature Assembly & Parts Used With</u>					
MAK-61	1	Washer, Thrust, C.E.			
MAW-2128	1	ARMATURE			
MU-54	*	Washer, Thrust, 1/32" Thick			
MU-54A	*	Washer, Thrust, 1/64" Thick			
MU-54B	*	Washer, Thrust, 3/64" Thick			
X-261	1	Key, Woodruff, #6			

UNIT	APPLICATION
MAW-4054	Frazer
MAW-4054A	Massey-Harris

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File in
Equipment & Parts List Binder

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4055 STARTING MOTOR PARTS LIST

MAW-4055

Frame & Field Assembly & Parts Used With			Switch Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru	MAX-111	1	Connector
(MAW-2214)	1	Frame & Field Assy.	SS-4707	1	Solenoid Starting Switch (See separate list for parts)
DK-45	1	Washer, Ins., Term. Stud, Inner	8X-467	4	Screw, Switch Mtg., Hex. Hd. 1/4-20x3/8
GK-38	4	Screw, Pole Shoe	8X-830	1	Nut, Switch Term., Hex. 3/8-16
MAT-30	1	Insulation, Field Conn.	X-1272	4	Washer, Switch Mtg., Skpf. 1/4
MAW-12 †	2	Brush	Clutch Assembly & Parts Used With		
MAW-13 †	2	Brush, Grounded	MAX-71	1	Pin, Yoke
MAW-28	1	Stud, Terminal	MCH-58	2	Retainer, Yoke Spring
MAW-37	1	Bushing, Insulation	MCH-62	1	Spring, Yoke
MAW-59	1	Equalizer	MCH-2056	1	Yoke
MAW-3005S	1	FIELD COIL PACKAGE	MCL-3098A	1	CLUTCH, STARTER
MAW-1009	1	Coil, Field, Left	SS-56	1	Pin, Link
MAW-1010	1	Coil, Field, Right	12X-201	1	Lockwasher, Yoke Pin, 3/8
MAX-35	1	Washer, Ins., Term. Stud, Outer	X-401	1	Pin, Cotter, Link Pin, 1/16x3/8
MAX-44	1	Washer, Term. Stud, 3/8	8X-830	1	Nut, Yoke Pin, Hex. 3/8-16
MN-21	2	Pin, Dowel	Miscellaneous Parts		
8X-61	2	Screw, Ground Flat Hd. #10-32x7/16	MAW-24	1	Band, Cover
12X-201	1	Lockwasher, Term. Stud, 3/8	MN-18	1	Washer, Thrust, D.E.
8X-830	1	Nut, Term. Stud, Hex. 3/8-16	PS-1298	1	Housing Assy., Pinion
8X-179	1	Nut, Term. Stud, Hex. 3/8-16	MP-41A	1	Bearing, Abs. Bronze
12X-199	2	Lockwasher, Thru Bolt, 1/4	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
12X-201	1	Lockwasher, Term. Stud, 3/8	8X-794	1	Nut, Cover Band, Square #10-32
Comm. End Head Assembly & Parts Used With			† BRUSH SET, SERVICE MAW-2012S.		
MAW-2002F	1	Head Assy., Comm. End	* Use as required.		
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
Armature Assembly & Parts Used With					
MAD-96	1	Washer, Arm. Thrust, Comm. End			
MAW-2213	1	ARMATURE			
MU-54	*	Washer, Thrust, C.E., 1/32'' Thick			
MU-54B	*	Washer, Thrust, D.E., 3/64'' Thick			

UNIT	APPLICATION
MAW-4055	DeSoto (Canada)

(Issued 2-9-49)

Printed in U. S. A.

File in
Equipment & Parts List Binder

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAW-4057 STARTING MOTOR PARTS LIST

MAW-4057

Frame & Field Assembly & Parts Used With			Miscellaneous Parts		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
(MAW-2173)	1	Frame & Field Assy.	EBA-33	1	BENDIX DRIVE ASSEMBLY
GK-38	4	Screw, Pole Shoe	EBA-1213	1	Spring, Anti-Drift
MAB-31	1	Washer, Ins., Term. Stud, Outer	EBA-1225	1	Spring, Meshing
MAB-85	1	Bushing, Ins., Term. Stud	EBA-1232	1	Pinion
MAK-80	1	Washer, Ins., Term. Stud, Inner	EBA-1233	1	Ring, Retaining
MAT-28	1	Stud, Terminal	EBA-2006	1	Pin, Locating
MAT-30	1	Insulation, Field Connection	EBA-2007	2	Plate, Spring Anchor
MAW-12†	2	Brush	EBA-2008	1	Ring, Lock
MAW-13†	2	Brush, Grounded	EBA-2031	1	Shaft
MAW-59	1	Equalizer	EBA-2105	1	SPRING, DRIVE
MAW-3005S	1	FIELD COIL PACKAGE	MAW-24	1	Band, Cover
MAW-1009	1	Coil, Field, Left	MAW-2129	1	BEARING ASSY., INTERMEDIATE
MAW-1010	1	Coil, Field, Right	MAW-130	1	Bearing, Abs. Bronze
MN-21	2	Pin, Dowel	PS-1305	1	Housing Assy., Pinion
MU-37	1	Washer, Plain, Term. Stud, 5/16	MAW-131	1	Pin, Dowel
8X-61	2	Screw, Brush Ground, Flat Hd. #10-32x7/16	MG-77A	1	BEARING, ABS. BRONZE
X-1014	2	Lockwasher, Term. Stud, 5/16	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-1376	2	Nut, Term. Stud, Hex. 5/16-24	8X-794	1	Nut, Cover Band, Square #10-32
MW-20A	2	Bolt, Thru			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
Comm. End Head Assembly & Parts Used With					
MAW-2002F	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
Armature Assembly & Parts Used With					
MAK-61	1	Washer, Thrust, Comm. End			
MAW-2128	1	ARMATURE			
MU-54	*	Washer, Thrust, C.E. & D.E., 1/32" Thick			
MU-54B	*	Washer, Thrust, C.E. & D.E., 3/64" Thick			
X-261	1	Key, Woodruff, #6			

† BRUSH SET, SERVICE MAW-2012S.

* Use as required.

UNIT	APPLICATION
MAW-4057	Frazer

(Issued 9-19-50)

Printed in U. S. A.

File in
Equipment & Parts List Binder

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



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAX-4002 STARTING MOTOR PARTS LIST

MAX-4002

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
(MAX-2113)	1	Frame & Field Assy.				
DK-45	1	Insulating Washer				
GK-38	4	Pole Piece Screw				
MAB-30	1	Field Connection Ins.				
MAW-13	2	Brush Assy. - Grounded				
MAW-29	4	Pole Piece				
MAW-37	1	Insulating Bushing				
MAW-39	1	Insulating Block				
MAX-49	1	Terminal Post				
MAX-58	1	Equalizer				
MAX-64	2	Field Coil Connector				
MAX-1007	1	Field Coil - U.L.				
MAX-1008S	1	Field Coil Assy. - L.R.				
MAW-12	1	Brush				
MAX-1009S	1	Field Coil Assy. - L.L.				
MAW-12	1	Brush				
MAX-1010	1	Field Coil - U.R.				
MN-21	2	Dowel Pin				
SW-764	1	Switch Contact - Lower				
BX-61	2	#10-32x7/16 Flat Hd. Sc.				
BX-830	1	3/8-16 Hex. Nut				
MW-20A	2	Frame Screw				
X-199	2	1/4 Lock Washer				

Comm. End Plate Assembly & Parts Used With

MAX-2002	1	Comm. End Plate Assy.
MAD-110	1	Felt Pad
MZ-19	4	Brush Spring
X-390	1	Oiler - 1/4 Hinged Top

Armature Assembly & Parts Used With

MAD-96	1	Thrust Washer
MAW-2030	1	Armature Assembly
MAW-31	1	Armature Shaft Spacer
MU-54	*	Thrust Washer - 1/32" Thick
MU-54A	*	Thrust Washer - 1/64" Thick
MU-54B	*	Thrust Washer - 3/64" Thick
		1 2 3 4 5

Switch Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
SW-2813	1	Starting Switch Assy.				
12X-201	1	3/8 Lock Washer				
8X-930	1	3/8-16 Hex. Nut				
8X-321	2	#10-32x5/16 Rd. Hd. Screw				
X-1270	2	#10 Skpf. Washer				

Starter Clutch Assembly & Parts Used With

MAD-3099	1	Starter Clutch Assy.
MAW-33	1	Pivot Screw
MAW-2048	1	Yoke Assembly
8X-179	1	3/8-16 Hex. Nut
12X-201	1	3/8 Lock Washer

Miscellaneous Parts

MAW-24	1	Head Band
MN-18	1	Thrust Washer
PS-1090S	1	Pinion Housing Assy.
MP-41A	1	Absorbent Bronze Brg.
8X-715	1	#10-32x1 1/4 Rd. Hd. Screw
8X-794	1	#10-32 Square Nut
		1 2 3 4 5

(Issued 8-16-40)

* Use as required.

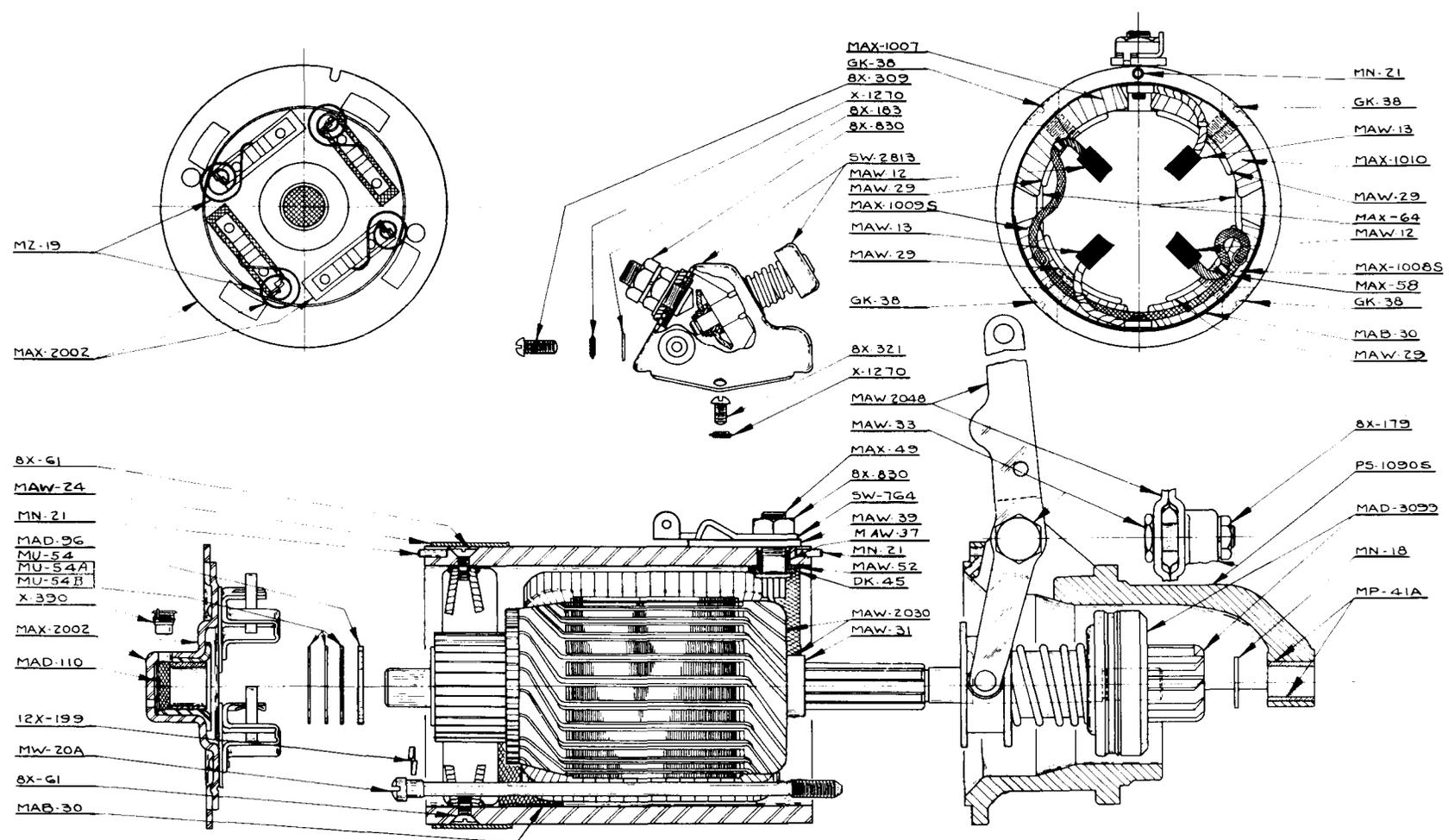
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Unit	Application
MAX-4002	Chrysler, De Soto

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."

MAX-4002 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAX-4003,A STARTING MOTOR PARTS LIST

MAX-4003,A

Frame & Field Assy. With Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
(MAX-2115)	1	Frame & Field Assy.				
DK-45	1	Insulating Washer				
GK-38	4	Pole Piece Screw				
MAB-30	1	Field Connection Ins.				
MAW-13	2	BRUSH ASSY. - GROUNDED				
MAW-29	4	Pole Piece				
MAW-37	1	Insulating Bushing				
MAX-35	1	Insulating Washer				
MAX-44	1	3/8 Steel Washer				
MAX-48	1	Terminal Post				
MAX-58	1	Equalizer				
MAX-64	2	Field Coil Connector				
MAX-1007D	1	Field Coil - U.L.				
MAX-1008S	1	Field Coil Assy.- L.R.				
MAW-12	1	BRUSH				
MAX-1009S	1	Field Coil Assy.- L.L.				
MAW-12	1	BRUSH				
MAX-1010D	1	Field Coil - U.R.				
MN-21	2	Dowel Pin				
8X-61	2	#10-32x7/16 Flat Hd. Sc.				
12X-201	1	3/8 Lock Washer				
8X-830	1	3/8-16 Hex. Nut				
MW-20A	2	Frame Screw				
12X-199	2	1/4 Lock Washer				
12X-201	1	3/8 Lock Washer				
8X-830	1	3/8-16 Hex. Nut				

Comm. End Plate Assy. & Parts Used With

MAX-2002	1	Comm. End Plate Assy.
MAD-110	1	Felt Pad
MZ-19	4	Brush Spring
X-390	1	Oiler - 1/4 Hinged Top

Armature Assembly & Parts Used With

MAD-96	1	Thrust Washer
MAW-2030	1	ARMATURE ASSEMBLY
MAW-31	1	Armature Shaft Spacer
MU-54	*	Thrust Washer - 1/32" Thick
MU-54A	*	Thrust Washer - 1/64" Thick
MU-54B	*	Thrust Washer - 3/64" Thick
		1 2 3 4 5

Assembly No.	Core Assembly
MAX-4003	SS-1057A
MAX-4003A	SS-1128

Switch Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
SS-107L	1	Connector				
**	1	Moving Core Assembly				
**	1	Core				
SS-59	1	Link Screw				
SS-61	1	Spring				
**	1	SWITCH ASSEMBLY				
12X-201	2	3/8 Lock Washer				
8X-467	4	1/4-20x3/8 Hex. Hd. Sc.				
8X-830	2	3/8-16 Hex. Nut				
X-1272	4	1/4 Skpf. Washer				

Starter Clutch & Parts Used With

MAD-2087	1	Yoke Assembly
MAD-3099	1	STARTER CLUTCH ASSY.
MAX-37	1	Gasket
MAX-38	1	Dust Cover
MAX-39	1	Dust Plate
MAX-41	1	Yoke Pivot Bushing
MAX-42	1	Yoke Pivot Bushing
MAX-46	1	Yoke Spring
SS-56	1	Link Pin
8X-97	1	5/16-18x3 1/4 Hex. Hd. Sc.
8X-147	1	5/16-18 Hex. Nut
8X-311	4	#10-32x3/8 Rd. Hd. Screw
X-401	1	1/16x3/8 Cotter Pin
12X-1014	1	5/16 Lock Washer
X-1270	4	#10 Skpf. Washer

Miscellaneous Parts

MAW-24	1	Head Band
MN-18	1	Thrust Washer
PS-1092	1	Pinion Housing Assembly
MP-41A	1	ABSORBENT BRONZE BRG.
8X-715	1	#10-32x1 1/4 Rd. Hd. Sc.
8X-794	1	#10-32 Square Nut
		1 2 3 4 5

(Issued 5-23-39)

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

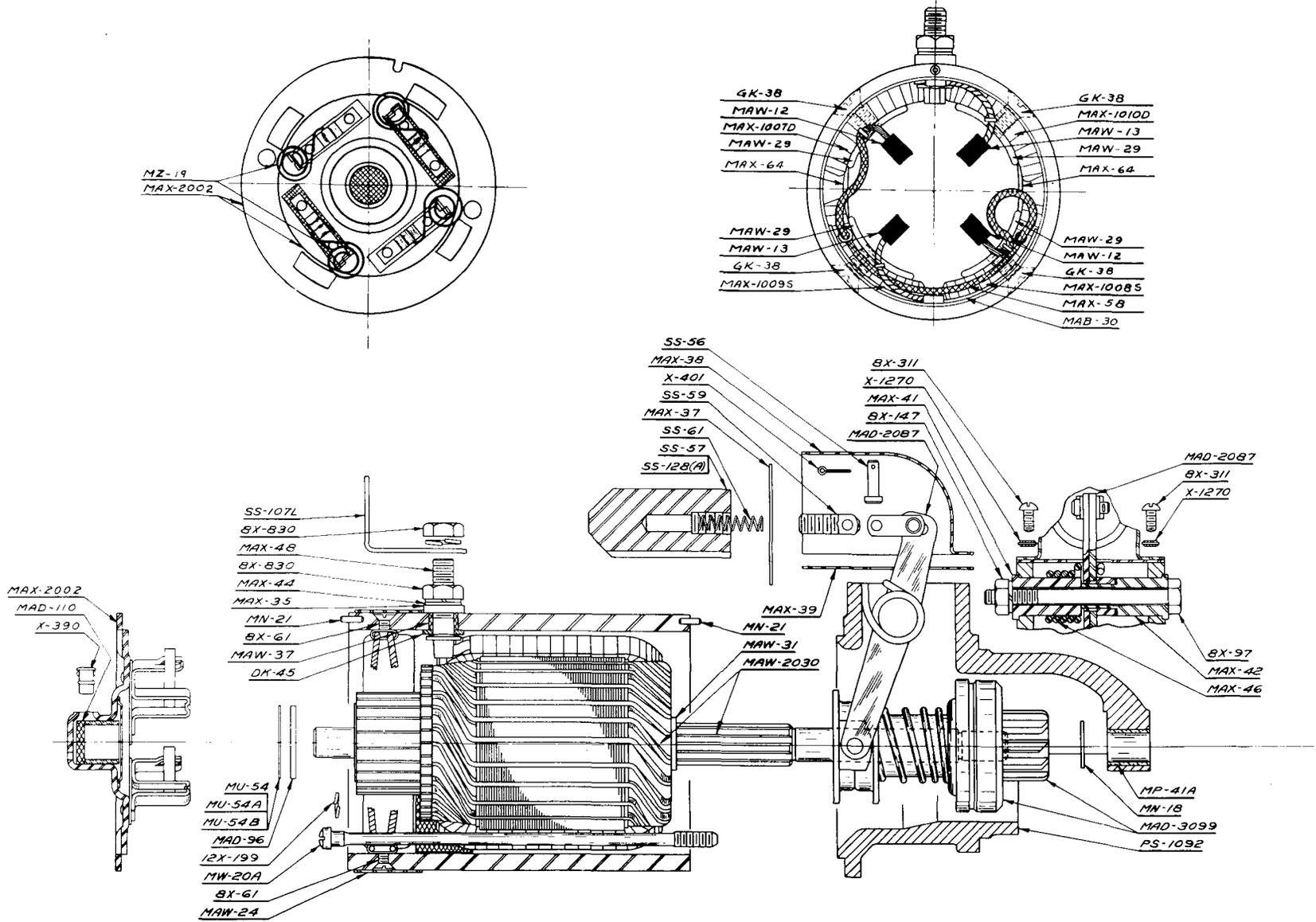
UNIT	APPLICATION
MAX-4003,A	Chrysler

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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."

MAX-4003A STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAX-4004 STARTING MOTOR PARTS LIST

MAX-4004

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAX-45	1	Bracket					
(MAX-2116)	1	Frame & Field Assy.					
DK-45	1	Ins. Washer					
GK-38	4	Pole Piece Screw					
MAB-30	1	Field Connection Ins.					
MAW-13	2	Brush Assy. - Grounded					
MAW-29	4	Pole Piece					
MAW-37	1	Insulating Bushing					
MAW-39	1	Insulating Block					
MAW-52	1	Terminal Post Insulation					
MAX-49	1	Terminal Post					
MAX-58	1	Equalizer					
MAX-64	2	Field Coil Connector					
MAX-1007	1	Field Coil - U.L.					
MAX-1008S	1	Field Coil Assy. - L.R.					
MAW-12	1	Brush					
MAX-1009S	1	Field Coil Assy. - L.L.					
MAW-12	1	Brush					
MAX-1010	1	Field Coil - U.R.					
MN-21	2	Dowel Pin					
SW-764	1	Switch Contact - Lower					
8X-61	2	#10-32x7/16 Flat Hd. Sc.					
8X-830	1	3/8-16 Hex. Nut					
MW-20A	2	Frame Screw					
12X-199	2	1/4 Lock Washer					
8X-467	2	1/4-20x3/8 Hex. Hd. Screw					
X-1272	2	1/4 Skpf. Washer					

Comm. End Plate Assembly & Parts Used With

MAX-2002	1	Comm. End Plate Assy.
MAD-110	1	Felt Pad
MZ-19	4	Brush Spring
X-390	1	Oiler - 1/4 Hinged Top

Armature Assembly & Parts Used With

MAD-96	1	Thrust Washer
MAW-2030	1	Armature Assy.
MAW-31	1	Armature Shaft Spacer
MU-54	*	Thrust Washer - 1/32" Thick
MU-54A	*	Thrust Washer - 1/64" Thick
MU-54B	*	Thrust Washer - 3/64" Thick
		1 2 3 4 5

Switch Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
SW-2813	1	Starting Switch Assy.					
12X-201	1	3/8 Lock Washer					
8X-830	1	3/8-16 Hex. Nut					
8X-321	2	#10-32x5/16 Rd. Hd. Screw					
X-1270	2	#10 Skpf. Washer					

Starter Clutch Assembly & Parts Used With

MAD-3099	1	Starter Clutch Assy.
MAW-33	1	Pivot Screw
MAX-2050	1	Yoke Assembly
8X-179	1	3/8-16 Hex. Nut
12X-201	1	3/8 Lock Washer

Miscellaneous Parts

MAW-24	1	Head Band
MN-18	1	Thrust Washer
PS-1090S	1	Pinion Housing Assy.
MP-41A	1	Absorbent Bronze Brg.
8X-715	1	#10-32x1 1/4 Rd. Hd. Screw
8X-794	1	#10-32 Square Nut
		1 2 3 4 5

(Issued 8-16-40)

* Use as required.

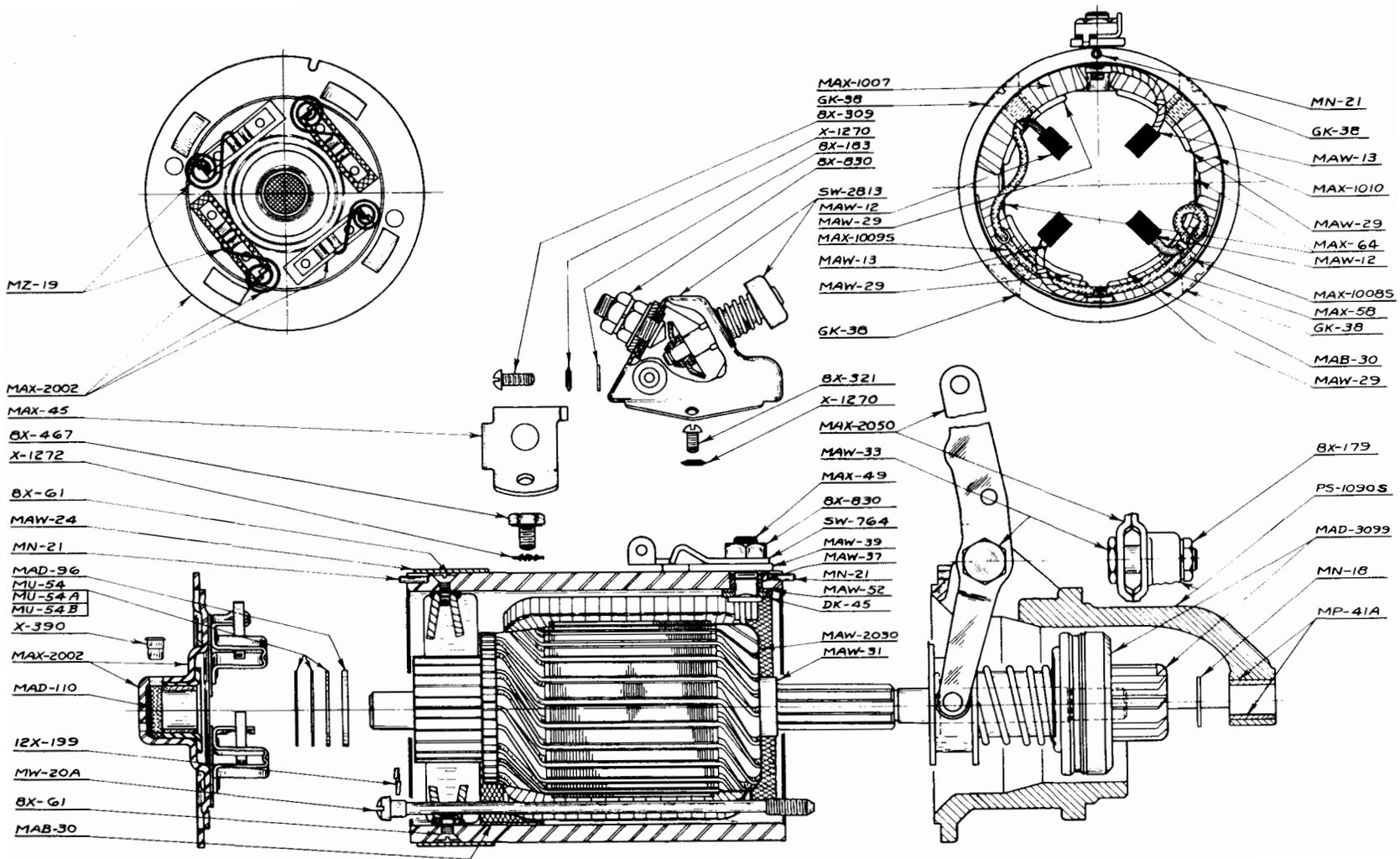
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File in

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."

Unit	Application
MAX-4004	Chrysler



MAX-4004 STARTING MOTOR ILLUSTRATION

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAX-4006 STARTING MOTOR PARTS LIST

MAX-4006

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
(MAX-2117)	1	Frame & Field Assy.				
GK-38B	4	Pole Piece Screw				
MAB-30	1	Field Connection Ins.				
MAB-31	1	Insulating Washer				
MAB-85	1	Insulating Bushing				
MAK-80	1	Insulating Washer				
MAW-13	2	Brush Assy. - Grounded				
MAW-29	4	Pole Piece				
MAW-52	1	Field Connector Ins.				
MAX-26	2	Field Coil Connector				
MAX-47	1	Terminal Post				
MAX-58	1	Equalizer				
MAX-1007D	1	Field Coil - U.L.				
MAX-1008S	1	Field Coil Assy. - L.R.				
MAW-12	1	Brush				
MAX-1009S	1	Field Coil Assy. - L.L.				
MAW-12	1	Brush				
MAX-1010D	1	Field Coil - U.R.				
MN-21	2	Dowel Pin				
MU-37	1	5/16 Plain Washer				
8X-61	2	#10-32x7/16 Flat Hd. Sc.				
X-1014	1	5/16 Lock Washer				
5X-1376	1	5/16-24 Hex. Nut				
MW-20A	2	Frame Screw				
X-199	2	1/4 Lock Washer				
X-1014	1	5/16 Lock Washer				
5X-1376	1	5/16-24 Hex. Nut				

Comm. End Plate Assembly & Parts Used With

MAX-2002	1	Comm. End Plate Assy.				
MAD-110	1	Felt Pad				
MZ-19	4	Brush Spring				
X-390	1	Oiler - 1/4 Hinged Top				
		1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAK-61	1	5/8 Steel Washer				
MAW-2006	1	Armature Assy.				
MAB-35	1	Brg. Thrust Spacer				
MU-54	2	Thrust Washer - 1/32" Thick				
X-261	1	#6 Woodruff Key				

Switch Assembly & Parts Used With

SS-6R	1	Connector				
SS-4001	1	Solenoid Starting Switch				
12X-196	1	#10 Lock Washer				
8X-832	2	5/16-24 Hex. Nut				
12X-1014	2	5/16 Lock Washer				
8X-1372	1	#10-32 Hex. Nut				
8X-321	2	#10-32x5/16 Rd. Hd. Screw				
X-1270	2	#10 Skpf. Washer				

Miscellaneous Parts

EBA-12	1	Bendix Drive Assy.				
MAB-1024E	1	Head Band Assy.				
MAB-2040	1	Intermediate Brg. Assy.				
MG-77A	1	Absorbent Bronze Brg.				
PS-1095	1	Pinion Housing Assy.				
MAB-88	1	Dowel Pin				
MG-77A	1	Absorbent Bronze Brg.				
X-489	1	1/4 Oiler - Press in Type				
8X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
8X-794	1	#10-32 Square Nut				
		1	2	3	4	5

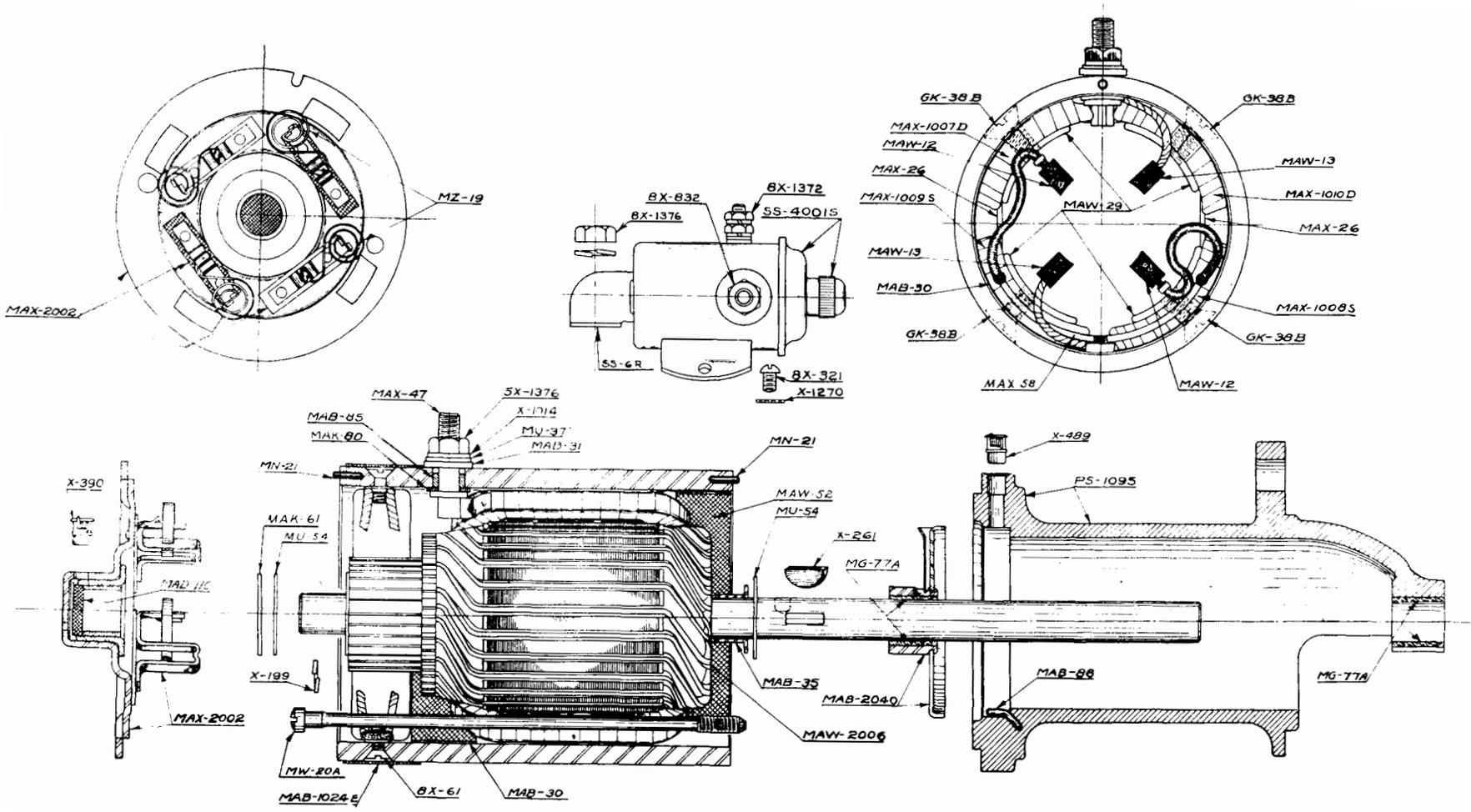
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"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

MAX-4006 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAX-4007 STARTING MOTOR PARTS LIST

MAX-4007

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
(MAX-2113A)	1	Frame & Field Assy.					
DK-45	1	Ins. Washer					
GK-38	4	Pole Piece Screw					
MAB-30	1	Field Connection Ins.					
MAW-13	2	Brush Assy. - Grounded					
MAW-29	4	Pole Piece					
MAW-37	1	Insulating Bushing					
MAW-39	1	Insulating Block					
MAX-49	1	Terminal Post					
MAX-58	1	Equalizer					
MAX-64	2	Field Coil Connector					
MAX-1007	1	Field Coil - U.L.					
MAX-1008S	1	Field Coil Assy. - L.R.					
MAW-12	1	Brush					
MAX-1009S	1	Field Coil Assy. - L.L.					
MAW-12	1	Brush					
MAX-1010	1	Field Coil - U.R.					
MN-21	2	Dowel Pin					
SW-763	1	Switch Contact - Lower					
8X-61	2	#10-32x7/16 Flat Hd. Sc.					
8X-830	1	3/8-16 Hex. Nut					
MW-20A	2	Frame Screw					
12X-199	2	1/4 Lock Washer					

Comm. End Plate Assembly & Parts Used With

MAX-2002	1	Comm. End Plate Assy.
MAD-110	1	Felt Pad
MZ-19	4	Brush Spring
X-390	1	Oiler - 1/4 Hinged Top

Armature Assembly & Parts Used With

MAD-96	1	Thrust Washer
MAW-2030	1	Armature Assy.
MAW-31	1	Armature Shaft Spacer
MU-54	*	Thrust Washer - 1/32" Thick
MU-54A	*	Thrust Washer - 1/64" Thick
MU-54B	*	Thrust Washer - 3/64" Thick
		1 2 3 4 5

* Use as required.

Switch Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
SW-2677A	1	Starting Switch Assy.					
12X-201	1	3/8 Lock Washer					
8X-830	1	3/8-16 Hex. Nut					
8X-321	2	#10-32x5/16 Rd. Hd. Screw					
X-1270	2	#10 Skpf. Washer					

Starter Clutch Assembly & Parts Used With

MAD-3099	1	Starter Clutch Assy.
MAW-33	1	Pivot Screw
MAW-2054	1	Yoke Assembly
8X-179	1	3/8-16 Hex. Nut
12X-201	1	3/8-16 Lock Washer

Miscellaneous Parts

MAW-24	1	Head Band
MN-18	1	Thrust Washer
PS-1090S	1	Pinion Housing Assy.
MP-41A	1	Absorbent Bronze Brg.
8X-715	1	#10-32x1 1/4 Rd. Hd. Screw
8X-794	1	#10-32 Square Nut
		1 2 3 4 5

(Issued 8-16-40)

Unit	Application
MAX-4007	Dodge Truck

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MAX-4007 STARTING MOTOR ILLUSTRATION

