

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAB-4115 STARTING MOTOR PARTS LIST

MAB-4115

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
(MAB-2146)	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAB-12†	2	Brush
MAB-30	1	Insulation, Field Connection
MAB-31	1	Washer, Ins., Term. Stud, Outer
MAB-85	1	Bushing, Ins., Term. Stud
MAB-1007	1	Coil, Field, U.L.
MAB-1008	1	Coil, Field, L.R.
MAB-1009	1	Coil, Field, L.L.
MAB-1010	1	Coil, Field, U.R.
MAF-59	2	Connector, Field Coil
MAN-14	1	Terminal
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
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-16	2	Holder, Brush
MZ-19	4	Spring, Brush
MZ-1034†	2	Brush, Grounded
X-532	4	Rivet, Oval Hd., 1/8x1/4

Armature Assembly & Parts Used With

MAB-2006	1	Armature Assy.
MAB-35	1	Spacer, Bearing Thrust
MU-54	2	Washer, Thrust 1/32" thick
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
SS-6R	1	Connector, Switch to Motor
SS-4001	1	Solenoid Starting Switch
12X-196	1	Lockwasher, #10
8X-832	2	Nut, Hex., 5/16-24
12X-1014	2	Lockwasher, 5/16
8X-1372	1	Nut, Hex., #10-32
8X-321	2	Screw Switch Mtg., Rd. Hd. #10-32x5/16
X-1270	2	Washer, Switch Mtg., Skpf. #10

Miscellaneous Parts

EBA-68	1	Bendix Drive Assy.
EB-108	2	Washer, Lock
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, Drive
EB-8734	1	Ring, Take Up
EBA-6711	1	Shaft & Pinion
MAB-2040	1	Bearing Assy., Intermediate
MG-77A	1	Bearing, Absorbent Bronze
MAW-24	1	Band, Cover
PS-1075	1	Housing Assy. Pinion
MAB-88	1	Pin, Dowel
MG-77A	1	Bearing, Absorbent Bronze
X-715	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/4
8X-794	1	Nut, Cover Band, Square #10-32
		1 2 3 4 5

† Brush Set, Service MAB-2012S.

Unit	Application
MAB-4115	Centaur Tractor

(Issued 10-14-46)

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File in
Equipment & Parts List Binder

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAB-4116 STARTING MOTOR PARTS LIST

MAB-4116

Frame & Field Assembly With Terminal Stud & Parts Used With

Part No.	No. Used	Name of Part
GT-20A	2	Bolt, Thru
(MAB-2147)	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAB-12 †	2	Brush
MAB-30	1	Insulation, Field Connection
MAB-31	1	Washer, Ins., Term. Stud, Outer
MAB-85	1	Bushing, Ins., Term. Stud
MAB-3005S	1	Field Coil Package
MAB-1007	1	Coil, Field, U.L.
MAB-1008	1	Coil, Field, L.R.
MAB-1009	1	Coil, Field, L.L.
MAB-1010	1	Coil, Field, U.R.
MAF-59	2	Connector, Field Coil
MAN-14	1	Terminal
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-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, Arm. Thrust, C.E. & Intermediate
X-261	1	Key, Woodruff, #6

Switch Assembly & Parts Used With

Part No.	No. Used	Name of Part
SS-6L	1	Connector
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., Skpf. #10

Miscellaneous Parts

EBA-11	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, Driving
EB-8705	1	Spring, Drive
EB-8734	1	Ring, Take-Up
EBA-1111	1	Shaft & Pinion
MAB-2040	1	Bearing Assy., Intermediate
MG-77A	1	Bearing, Abs. Bronze
MAW-24	1	Band, Cover
PS-1123C	1	Housing Assy., Pinion
MAB-88	1	Pin, Dowel
MG-77A	1	Bearing, Absorbent 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-2012AS

UNIT	APPLICATION
MAB-4116	Universal

(Issued 7-13-48)

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File in
Equipment & Parts List Binder

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAB-4117 STARTING MOTOR PARTS LIST

MAB-4117

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
GT-20A	2	Bolt, Thru	SS-6L	1	Connector
(MAB-2147)	1	Frame & Field Assy.	SS-4003	1	Switch, Solenoid
GK-38	4	Screw, Pole Shoe	8X-173	1	Nut, Hex. #10-32
MAB-12 †	2	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
MAB-3005S	1	Field Coil Package	X-1270	2	Washer, Switch Mtg., Skpf. #10
MAB-1007	1	Coil, Field, U.L.	<u>Miscellaneous Parts</u>		
MAB-1008	1	Coil, Field, L.R.	EBA-40	1	Bendix Drive Assembly
MAB-1009	1	Coil, Field, L.L.	EB-108	2	Lockwasher
MAB-1010	1	Coil, Field, U.R.	EB-2805	1	Spring, Drive
MAF-59	2	Connector, Field Coil	EB-7806	1	Screw, Spring Head
MAN-14	1	Terminal	EB-7807	1	Screw, Spring, Shaft
MN-21	2	Pin, Dowel	EB-7819S	1	Sleeve, Compression
MU-28	1	Stud, Terminal	EB-8503	1	Head, Driving
MU-37	1	Washer, Plain, Term. Stud, 5/16	EB-8734	1	Ring, Take-Up
MU-39	1	Washer, Ins., Term. Stud Inner	EBA-4011	1	Shaft & Pinion
12X-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
12X-199	2	Lockwasher, Thru Bolt, 1/4	MAW-24	1	Band, Cover
<u>Comm. End Head Assembly & Parts Used With</u>			PS-1123C	1	Housing Assy., Pinion
MAB-3002	1	Head Assy., Comm. End	MAB-88	1	Pin, Dowel
MZ-19	4	Spring, Brush	MG-77A	1	Bearing, Absorbent Bronze
MZ-1034S†	2	Brush, Grounded	X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
<u>Armature Assembly & Parts Used With</u>			8X-794	1	Nut, Cover Band, Square #10-32
MAB-2006	1	Armature Assy.	† Brush Set, Service MAB-2012AS		
MAB-35	1	Spacer, Bearing Thrust			
MU-54	2	Washer, Arm. Thrust, C.E. & Intermediate			
X-261	1	Key, Woodruff, #6			

UNIT	APPLICATION
MAB-4117	Universal

(Issued 7-13-48)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAB-4118,A STARTING MOTOR PARTS LIST

MAB-4118,A

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GT-20A	2	Bolt, Thru
(MAB-2147)	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAB-12†	2	Brush
MAB-30	1	Insulation, Field Conn.
MAB-31	1	Washer, Ins., Term. Stud, Outer
MAB-65	1	Terminal
MAB-85	1	Bushing, Ins., Term. Stud
MAB-3005S	1	FIELD COIL PACKAGE
MAB-1007	1	Coil, Field, U.L.
MAB-1008	1	Coil, Field, L.R.
MAB-1009	1	Coil, Field, L.L.
MAB-1010	1	Coil, Field, U.R.
MAF-59	2	Connector, Field Coil
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-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, Arm. Thrust, C.E. & Intermediate
X-261	1	Key, Woodruff, #6

Switch Assembly & Parts Used With

Part No.	No. Used	Name of Part
SS-6L	1	Connector
SST-4004	1	SOLENOID SWITCH
8X-164	2	Nut, Hex., 5/16x18
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., Skpf. #10

Miscellaneous Parts

EBA-2	1	BENDIX DRIVE ASSEMBLY
EB-108	2	Lockwasher
EB-7806	1	Screw, Spring, Head
EB-7807	1	Screw, Shaft Spring
EB-7819S	1	Compression Sleeve
EB-8503	1	Head, Driving
EB-8705	1	SPRING, DRIVE
EB-8734	1	Ring, Take-Up
EBA-211	1	S-A Assembly
MAB-2040	1	BEARING ASSY., INTERMEDIATE
MG-77A	1	Bearing, Abs. Bronze
*	1	Band, Cover
PS-1139C	1	Housing Assy., Pinion
MAB-88	1	Pin, Dowel
MG-77A	1	Bushing, 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-2012AS.

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

Assembly No.	Cover Band
MAB-4118	MAW-24
MAB-4118A	MAX-1024

UNIT	APPLICATION
MAB-4118	Diamond T
MAB-4118A	J.I. Case

(Issued 3-6-50)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAB-4119 STARTING MOTOR PARTS LIST

MAB-4119
(Issued 6-27-51)

<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
GT-20A	2	Bolt, Thru	EBA-2	1	BENDIX DRIVE ASSEMBLY
(MAB-2147)	1	Frame & Field Assy.	EB-108	2	Lockwasher
GK-38	4	Screw, Pole Shoe	EB-7806	1	Screw, Spring, Head
MAB-12 †	2	Brush	EB-7807	1	Screw, Shaft Spring
MAB-30	1	Insulation, Field Connection	EB-7819S	1	Sleeve, Compression
MAB-31	1	Washer, Ins., Term. Stud, Outer	EB-8503	1	Head, Driving
MAB-65	1	Terminal	EB-8705	1	SPRING, DRIVE
MAB-85	1	Bushing, Ins., Term. Stud	EB-8734	1	Ring, Take-Up
MAB-3005S	1	FIELD COIL PACKAGE	EBA-211	1	Shaft & Pinion
MAB-1007	1	Coil, Field, U.L.	MAB-2040	1	BEARING ASSY., INTERMEDIATE
MAB-1008	1	Coil, Field, L.R.	MG-77A	1	Bearing, Abs. Bronze
MAB-1009	1	Coil, Field, L.L.	MAW-24	1	Band, Cover
MAB-1010	1	Coil, Field, U.R.	PS-1139B	1	Housing Assy., Pinion
MAF-59	2	Connector, Field Coil	MAB-88	1	Pin, Dowel
MN-21	2	Pin, Dowel	MG-77A	1	BEARING, ABS. BRONZE
MU-28	1	Stud, Terminal	X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MU-37	1	Washer, Plain, Term. Stud, 5/16	8X-794	1	Nut, Cover Band, Square #10-32
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			
<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-2006	1	ARMATURE ASSY.			
MAB-35	1	Spacer, Bearing Thrust			
MU-54	2	Washer, Thrust, 1/32" Thick			
X-261	1	Key, Woodruff, #6			
<u>Switch Assembly & Parts Used With</u>					
SS-6L	1	Connector			
SST-4004	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., Skpf. #10			

† BRUSH SET, SERVICE MAB-2012AS.

UNIT	APPLICATION
MAB-4119	Diamond T., Hercules

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAB-4120 STARTING MOTOR PARTS LIST

MAB-4120

Frame & Field Assembly With Terminal Stud & Parts Used With

Part No.	No. Used	Name of Part
GT-20A	2	Bolt, Thru
(MAB-2149)	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAB-12 †	2	Brush
MAB-30	1	Insulation, Field Connection
MAB-31	1	Washer, Ins., Term. Stud, Outer
MAB-85	1	Bushing, Ins., Term. Stud
MAB-3005S	1	Field Coil Package
MAB-1007	1	Coil, Field, U.L.
MAB-1008	1	Coil, Field, L.R.
MAB-1009	1	Coil, Field, L.L.
MAB-1010	1	Coil, Field, U.R.
MAF-59	2	Connector, Field Coil
MAN-14	1	Terminal
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
5X-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

MAB-2006	1	Armature Assy.
MAB-35	1	Spacer, Bearing Thrust
MU-54	2	Washer, Arm. Thrust, C.E. & Intermediate
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-4020	1	Solenoid 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., Skpf. #10

Miscellaneous Parts

EBA-27	1	Bendix Drive Assembly
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, Driving
EB-8705	1	Spring, Drive
EB-8734	1	Ring, Take Up
EBA-2711	1	Shaft & Pinion
MAB-2040	1	Bearing Assy., Intermediate
MG-77A	1	Bearing, Abs. Bronze
MAX-1024	1	Band, Cover
PS-1139CA	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-2012AS.

UNIT	APPLICATION
MAB-4120	Hercules

(Issued 7-14-48)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAB-4121 STARTING MOTOR PARTS LIST

MAB-4121

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GT-20A	2	Bolt, Thru
(MAB-2001)	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAB-12 †	2	Brush
MAB-30	1	Insulation, Field Connection
MAB-31	1	Washer, Ins., Term. Stud, Outer
MAB-65	1	Terminal
MAB-85	1	Bushing, Ins., Term. Stud
MAB-3005S	1	FIELD COIL PACKAGE
MAB-1007	1	Coil, Field, U.L.
MAB-1008	1	Coil, Field, L.R.
MAB-1009	1	Coil, Field, L.L.
MAB-1010	1	Coil, Field, U.R.
MAF-59	2	Connector, Field Coil
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
5X-1376	2	Nut, Term. Stud, Hex. 5/16-24
X-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

Part No.	No. Used	Name of Part
MAB-2150	1	ARMATURE
MAB-56	1	Spacer, Bearing Thrust
MU-54	2	Washer, Thrust, 1/32" Thick
<u>Miscellaneous Parts</u>		
MAB-1024E	1	Band, Cover
MAB-1125	1	Head Assy., Drive End
MAB-49A	1	BEARING, ABS. BRONZE
X-489	1	Oiler
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-2012AS.

UNIT	APPLICATION
MAB-4121	Meyers Products

(Issued 9-29-49)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAB-4123 STARTING MOTOR PARTS LIST

MAB-4123

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-2	1	BENDIX DRIVE ASSEMBLY
(MAB-2146)	1	Frame & Field Assy.	EB-108	2	Lockwasher
GK-38	4	Screw, Pole Shoe	EB-7806	1	Screw, Spring, Head
MAB-12 †	2	Brush	EB-7807	1	Screw, Spring, Shaft
MAB-30	1	Insulation, Field Connection	EB-7819S	1	Sleeve, Compression
MAB-31	1	Washer, Ins., Term. Stud, Outer	EB-8503	1	Head, Driving
MAB-65	1	Terminal	EB-8705	1	Spring, Drive
MAB-85	1	Bushing, Ins., Term. Stud	EB-8734	1	Ring, Take-Up
MAB-3005S	1	FIELD COIL PACKAGE	EBA-211	1	Shaft & Pinion
MAB-1007	1	Coil, Field, U.L.	MAB-2040	1	BEARING ASSY., INTERMEDIATE
MAB-1008	1	Coil, Field, L.R.	MG-77A	1	Bearing, Abs. Bronze
MAB-1009	1	Coil, Field, L.L.	MAW-24	1	Band, Cover
MAB-1010	1	Coil, Field, U.R.	PS-1139C	1	Housing Assy., Pinion
MAF-59	2	Connector, Field Coil	MAB-88	1	Pin, Dowel
MN-21	2	Pin, Dowel	MG-77A	1	Bearing, Abs. Bronze
MU-28	1	Stud, Terminal	X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MU-37	1	Washer, Plain, Term. Stud, 5/16	8X-794	1	Nut, Cover Band, Square #10-32
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. & Intermediate, 1/32" Thick			
X-261	1	Key, Woodruff, #6			
Switch Assembly & Parts Used With					
SS-6R	1	Connector			
SST-4004	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			

† BRUSH SET, SERVICE MAB-2012AS.

UNIT	APPLICATION
MAB-4123	Diamond T

(Issued 3-6-50)

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAB-4124 STARTING MOTOR PARTS LIST

MAB-4124

(Issued 7-8-52)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GT-20A	2	Bolt, Thru
MAB-2112	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAB-12†	2	Brush
MAB-30	1	Insulation, Field Connection
MAB-31	1	Washer, Ins. , Term. Stud, Outer
MAB-65	1	Terminal
MAB-85	1	Bushing, Ins. , Term. Stud
MAB-3005S	1	FIELD COIL PACKAGE
MAB-1007	1	Coil, Field, U. L.
MAB-1008	1	Coil, Field, L. R.
MAB-1009	1	Coil, Field, L. L.
MAB-1010	1	Coil, Field, U. R.
MAF-59	2	Connection, Field Coil
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-2133	1	ARMATURE ASSY.
MAB-35	1	Spacer, Bearing Thrust
MU-54	2	Washer, Thrust, 1/32" Thick
X-261	2	Key, Woodruff, #6

Switch Assembly & Parts Used With

Part No.	No. Used	Name of Part
SS-6L	1	Connector
SS-4001	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

MAB-1024E	1	Cover, Band
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-2012AS.

UNIT	APPLICATION
MAB-4124	Insley Mfg.

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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

MAB-4125 STARTING MOTOR PARTS LIST

MAB-4125
(Issued 3-13-56)

<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
GT-20A	2	Bolt, Thru	EBA-27	1	BENDIX DRIVE ASSEMBLY
MAB-2149	1	Frame & Field Assy.	EB-108	2	Lockwasher
GK-38	4	Screw, Pole Shoe	EB-7806	1	Screw, Spring, Head
MAB-12 †	2	Brush	EB-7807	1	Screw, Spring, Shaft
MAB-30	1	Insulation, Field Conn.	EB-7819S	1	Sleeve, Compression
MAB-31	1	Washer, Ins., Term. Stud, Outer	EB-8503	1	Head, Driving
MAB-65	1	Terminal	EB-8705	1	SPRING, DRIVE
MAB-85	1	Bushing, Ins., Term. Stud	EBA-2711	1	Shaft & Pinion
MAB-3005S	1	FIELD COIL PACKAGE	MAB-2040	1	BEARING ASSY., INTERMEDIATE
MAB-1007	1	Coil, Field, U. L.	MG-77A	1	Bearing, Abs. Bronze
MAB-1008	1	Coil, Field, L. R.	MAX-1024	1	Band, Cover
MAB-1009	1	Coil, Field, L. L.	PS-1139E	1	Housing Assy., Pinion
MAB-1010	1	Coil, Field, U. R.	MAB-88	1	Pin, Dowel
MAF-59	2	Connector, Field Coil	MG-77A	1	BEARING, ABS. BRONZE
MN-21	2	Pin, Dowel	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MU-28	1	Stud, Terminal	8X-794	1	Nut, Cover Band, Square #10-32
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			
<u>Comm. End Head Assembly & Parts Used With</u>					
MAB-2002C	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
MZ-1034S †	2	Brush, Grounded			
<u>Armature Assembly & Parts Used With</u>					
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			
<u>Switch Assembly & Parts Used With</u>					
SS-6L	1	Connector			
SS-4021A	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			

† BRUSH SET, SERVICE MAB-2012AS.

UNIT	APPLICATION
MAB-4125	Hercules

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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

MAD-4106 STARTING MOTOR PARTS LIST

MAD-4106

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				
(MAD-2001)	1	Frame & Field Assy.				
GK-38	4	Pole Piece Screw				
MAB-14	1	Terminal				
MAB-30	1	Field Connection Ins.				
MAB-31	1	Ins. Washer				
MAB-85	1	Ins. Bushing				
MAD-29	4	Pole Piece				
MAD-1007	1	Field Coil - U.L.				
MAD-1008A	1	Field Coil & Brush Assy.- L.R.				
MAB-12	1	Brush				
MAD-1009A	1	Field Coil & Brush Assy.- L.L.				
MAB-12	1	Brush				
MAD-1010	1	Field Coil - U.R.				
MAF-59	2	Field Coil Connector				
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-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-1262	4	1/8x7/32 Oval Hd. Rivet				
		1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAD-2057	1	Armature Assembly				
MU-54	1	Thrust Washer				
X-261	1	#6 Woodruff Key				

Drive End Head Assembly & Parts Used With

MAD-59	1	Bendix Drive Shaft				
MAD-1058	1	Intermediate Plate Assy.				
MG-77A	1	Absorbent Bronze Brg.				
ML-18A	1	Absorbent Bronze Brg.				
MN-1	1	Felt Washer Retainer				
MN-6	1	Bendix Shaft Gear				
MN-19	1	Felt Washer				
X-196	3	#10 Lock Washer				
X-261	1	#6 Woodruff Key				
6X-312	3	#10-32x1/4 Rd. Hd. Screw				
6X-505	1	1/8 Pipe Plug				

Miscellaneous Parts

EB-48	1	Bendix Drive Assy.				
MAB-1024	1	Head Band Assy.				
PS-1022	1	Pinion Housing Assy.				
MP-41A	1	Absorbent Bronze Brg.				
6X-87	4	1/4-20x7/8 Hex. Hd. Sc.				
X-199	4	1/4 Lock Washer				
6X-1010A	1	#8-32x1 1/4 Rd. Hd. Sc.				
6X-1410	1	#8-32 Hex. Nut				
		1	2	3	4	5

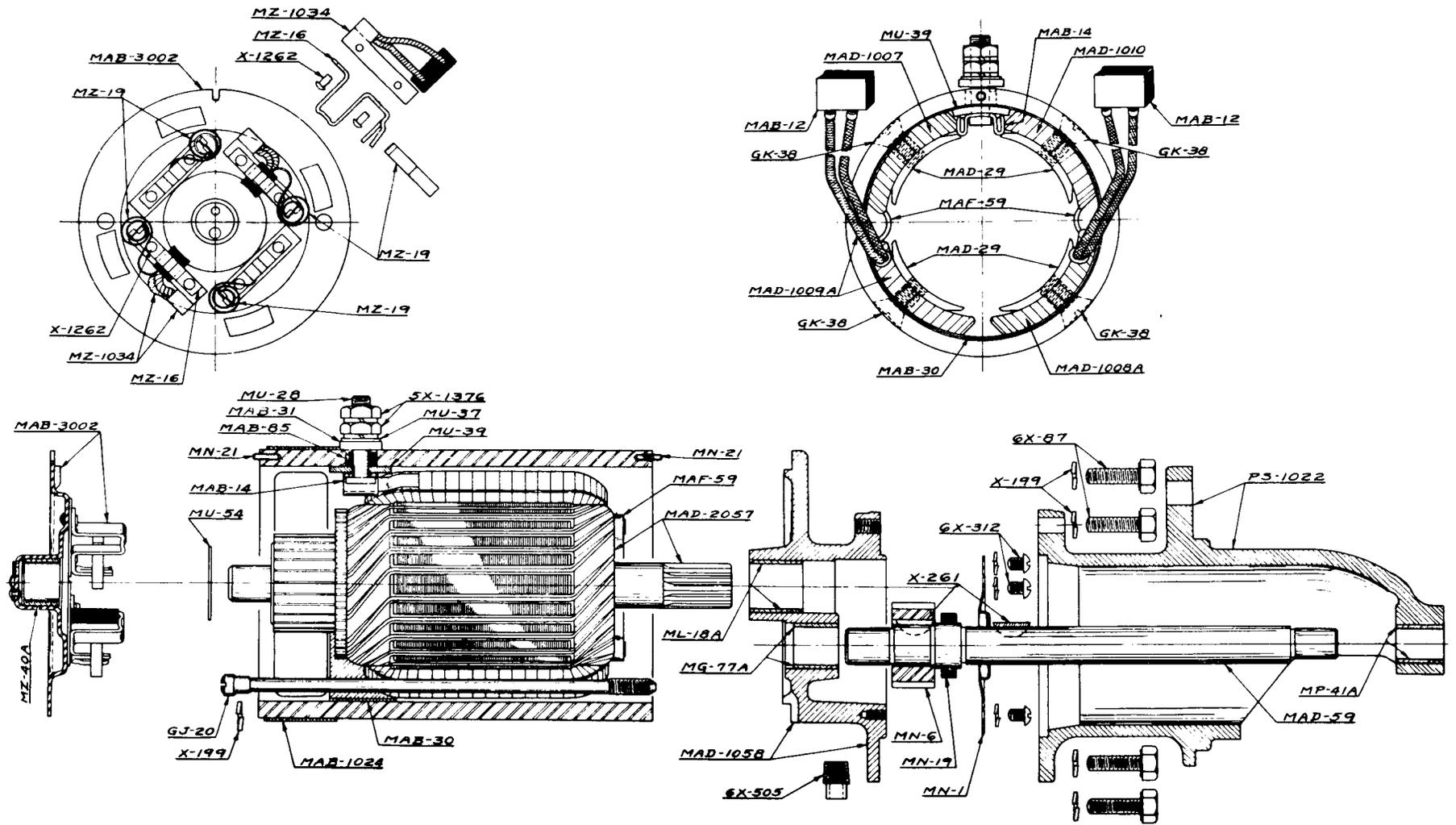
(Issued 10-20-31)
(R-5-7-36)

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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."

MAD-4106 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAJ-4011 STARTING MOTOR PARTS LIST

MAJ-4011

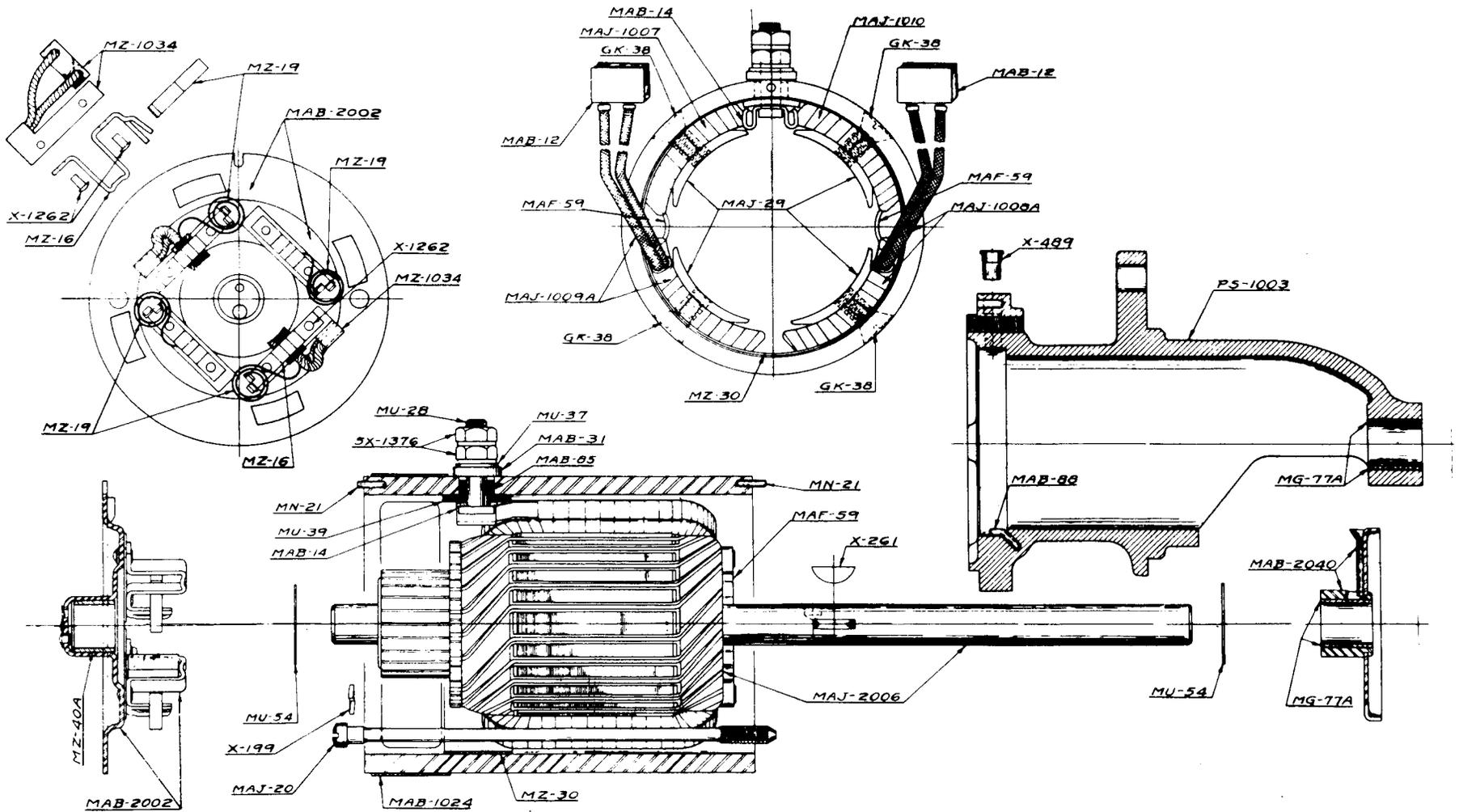
<u>Frame & Field Assembly with Terminal Post & Parts Used With</u>					<u>Armature Assembly & Parts Used With</u>									
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part					
		1	2	3	4	5			1	2	3	4	5	
MAJ-20	2	Frame Screw					MAJ-2006	1	Armature Assembly					
(MAJ-2001)	1	Frame & Field Assy.					MU-54	2	Thrust Washer					
GK-38	4	Pole Piece Screw					X-261	1	#6 Woodruff Key					
MAB-14	1	Terminal					<u>Miscellaneous Parts</u>							
MAB-31	1	Insulating Washer					EB-31	1	Bendix Drive Assembly					
MAB-85	1	Insulating Bushing					MAB-1024	1	Head Band Assembly					
MAF-59	2	Field Coil Connector					MAB-2040	1	Intermediate Brg. Assy.					
MAJ-29	4	Pole Piece					MG-77A	1	Absorbent Bronze Brg.- 1/16 Wall					
MAJ-1007	1	Field Coil - U.L.					PS-1003	1	Pinion Housing Assy.					
MAJ-1008A	1	Field Coil & Brush Assy.- L.R.					MAB-88	1	Dowel Pin					
MAB-12	1	Brush					MG-77A	1	Absorbent Bronze Brg.- 1/16 Wall					
MAJ-1009A	1	Field Coil & Brush Assy.- L.L.					X-489	1	1/4 Oiler-Press in Type					
MAB-12	1	Brush					6X-1010A	1	#8-32x1 1/4 Rd. Hd. Sc.- Hardened					
MAJ-1010	1	Field Coil - U.R.					6X-1410	1	#8-32 Square Nut					
MN-21	2	Dowel Pin							1	2	3	4	5	
MU-28	1	Terminal Post							(Issued 4-1-31)					
MU-37	1	5/16 Plain Washer							(R-5-7-36)					
MU-39	1	Insulating Washer												
MZ-30	1	Field Connection Ins.												
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 Assembly & Parts Used With</u>														
MAB-2002	1	Comm. End Plate Assy.												
MZ-16	2	Brush Holder												
MZ-19	4	Brush Spring												
MZ-40A	1	Absorbent Bronze Brg.- 1/16 Wall												
MZ-1034	2	Brush Assy.-Grounded												
X-1262	4	1/8x7/32 Oval Hd. Rivet												
		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."

MAJ-4011 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAJ-4016 STARTING MOTOR PARTS LIST

MAJ-4016

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part
		1 2 3 4 5
MAJ-20	2	Frame Screw
(MAJ-2001)	1	Frame & Field Assy.
GK-38	4	Pole Piece Screw
MAB-14	1	Terminal
MAB-30	1	Field Connection Ins.
MAB-31	1	Insulating Washer
MAB-85	1	Insulating Bushing
MAF-59	2	Field Coil Connector
MAJ-29	4	Pole Piece
MAJ-1007	1	Field Coil - U.L.
MAJ-1008A	1	Field Coil & Brush Assy.- L.R.
MAB-12	1	Brush
MAJ-1009A	1	Field Coil & Brush Assy.- L.L.
MAB-12	1	Brush
MAJ-1010	1	Field Coil - U.R.
MN-21	2	Dowel Pin
MU-23	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
MAJ-2006	1	Armature Assy.
MAB-35	1	Brg. Thrust Spacer
MU-54	2	Thrust Washer
X-261	1	#6 Woodruff Key
<u>Miscellaneous Parts</u>		
EB-33	1	Bendix Drive Assy.
MAB-1024	1	Head Band Assy.
MAB-2040	1	Intermediate Brg. Assy.
MG-77A	1	Absorbent Bronze Brg.
PS-1003	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. Sc.
8X-794	1	#10-32 Square Nut
		1 2 3 4 5

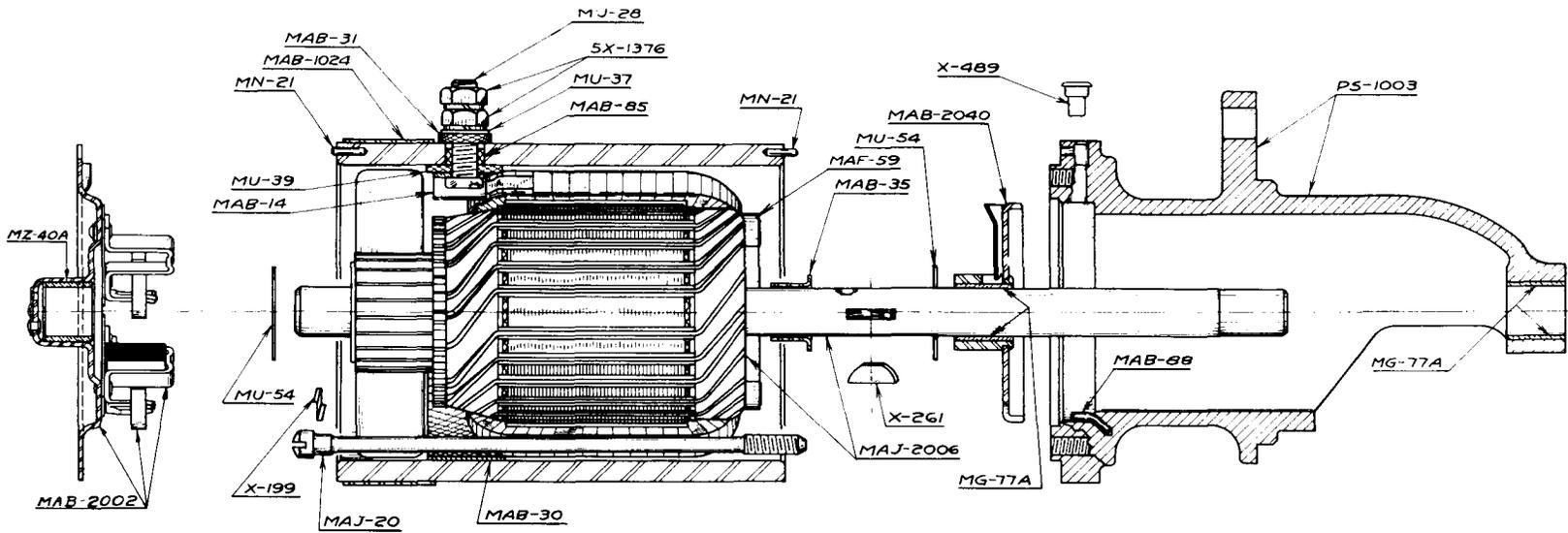
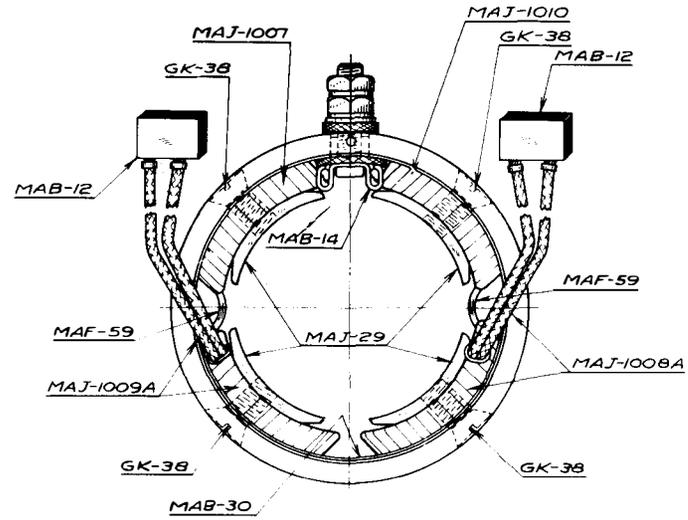
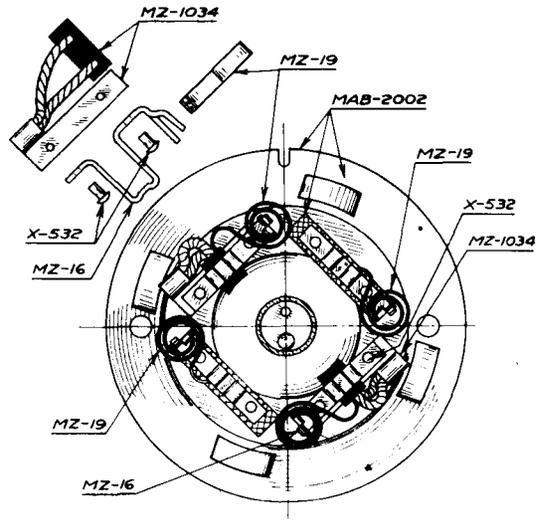
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MAJ-4016 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAJ-4017 STARTING MOTOR PARTS LIST

MAJ-4017

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAJ-20	2	Frame Screw				
(MAJ-2001)	1	Frame & Field Assy.				
GK-38	4	Pole Piece Screw				
MAB-14	1	Terminal				
MAB-30	1	Field Connection Ins.				
MAB-31	1	Insulating Washer				
MAB-85	1	Insulating Bushing				
MAF-59	2	Field Coil Connector				
MAJ-29	4	Pole Piece				
MAJ-1007	1	Field Coil - U.L.				
MAJ-1008A	1	Field Coil & Brush Assy.- L.R.				
MAB-12	1	Brush				
MAJ-1009A	1	Field Coil & Brush Assy.- L.L.				
MAB-12	1	Brush				
MAJ-1010	1	Field Coil - U.R.				
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 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
MAJ-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>						
EB-31	1	Bendix Drive Assembly				
MAB-1024	1	Head Band Assembly				
MAB-2040	1	Intermediate Brg. Assy.				
MG-77A	1	Absorbent Bronze Brg.				
PS-1005	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

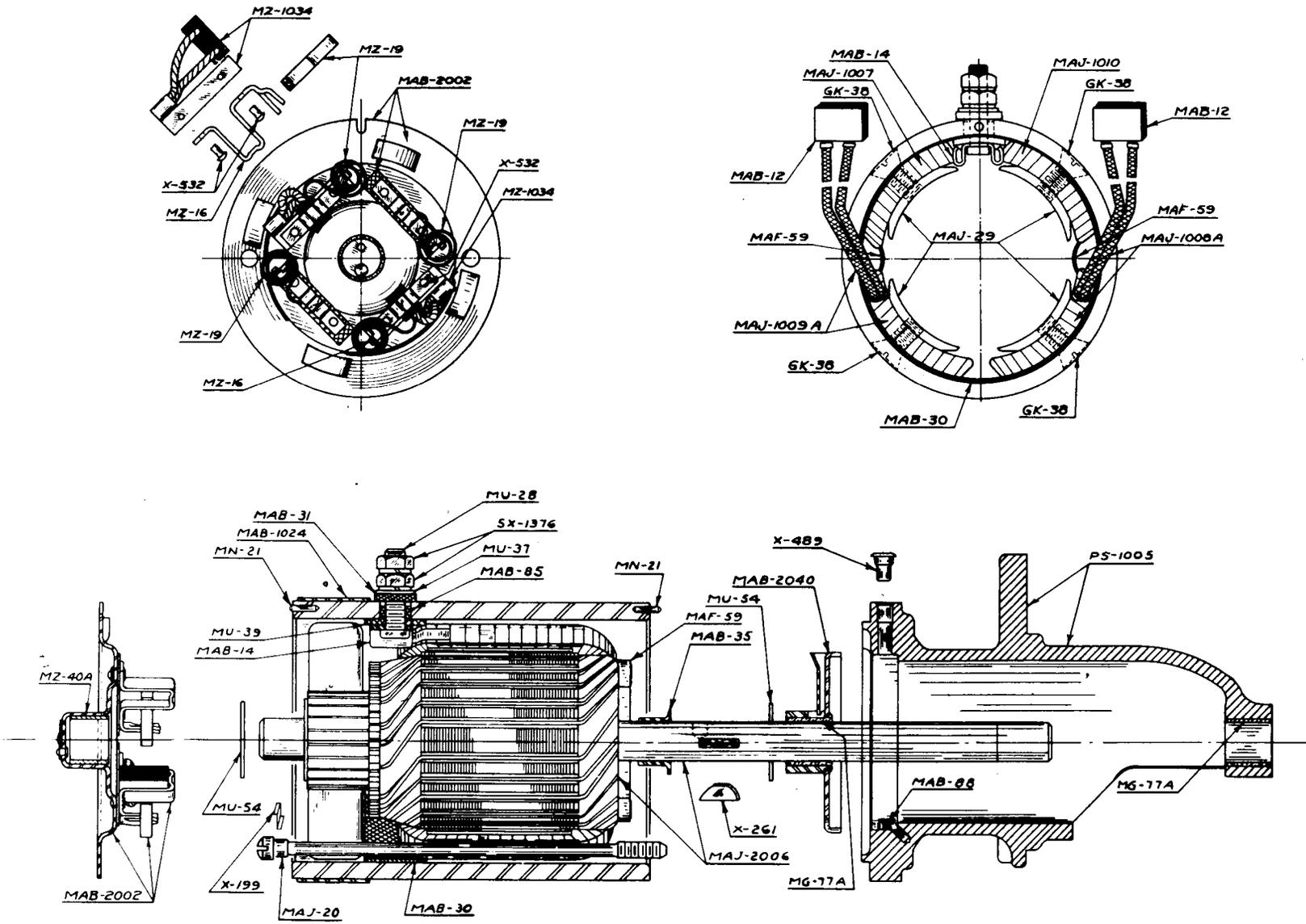
(Issued 10-22-37)

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MAJ-4017 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAJ-4018 STARTING MOTOR PARTS LIST

MAJ-4018

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAJ-20	2	Frame Screw				
(MAJ-2001)	1	Frame & Field Assy.				
GK-38	4	Pole Piece Screw				
MAB-14	1	Terminal				
MAB-30	1	Field Connection Ins.				
MAB-31	1	Insulating Washer				
MAB-85	1	Insulating Bushing				
MAF-59	2	Field Coil Connector				
MAJ-29	4	Pole Piece				
MAJ-1007	1	Field Coil - U.L.				
MAJ-1008A	1	Field Coil & Br. Assy.- L.R.				
MAB-12	1	Brush				
MAJ-1009A	1	Field Coil & Br. Assy.- L.L.				
MAB-12	1	Brush				
MAJ-1010	1	Field Coil - U.R.				
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. - 1/16 Wall				
MZ-1034	2	Brush Assembly - Grounded				
X-1262	4	1/8x7/32 Oval Hd. Rivet				
		1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAJ-2006	1	Armature Assembly				
MAB-35	1	Bearing Thrust Spacer				
MU-54	2	Thrust Washer				
X-261	1	#6 Woodruff Key				
<u>Miscellaneous Parts</u>						
EB-33	1	Bendix Drive Assembly				
MAB-1024	1	Head Band Assembly				
MAB-2040	1	Intermediate Brg. Assy.				
MG-77A	1	Absorbent Bronze Brg. - 1/16 Wall				
PS-1005	1	Pinion Housing Assy.				
MAB-88	1	Dowel Pin				
MG-77A	1	Absorbent Bronze Brg. - 1/16 Wall				
X-489	1	1/4 Oiler - Press in Type				
6X-1010A	1	#8-32x1 1/4 Rd. Hd. So.- Hardened				
6X-1410	1	#8-32 Square Nut				
		1	2	3	4	5

(Issued 9-30-31)
(R-5-7-36)

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File in
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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAJ-4021 STARTING MOTOR PARTS LIST

MAJ-4021

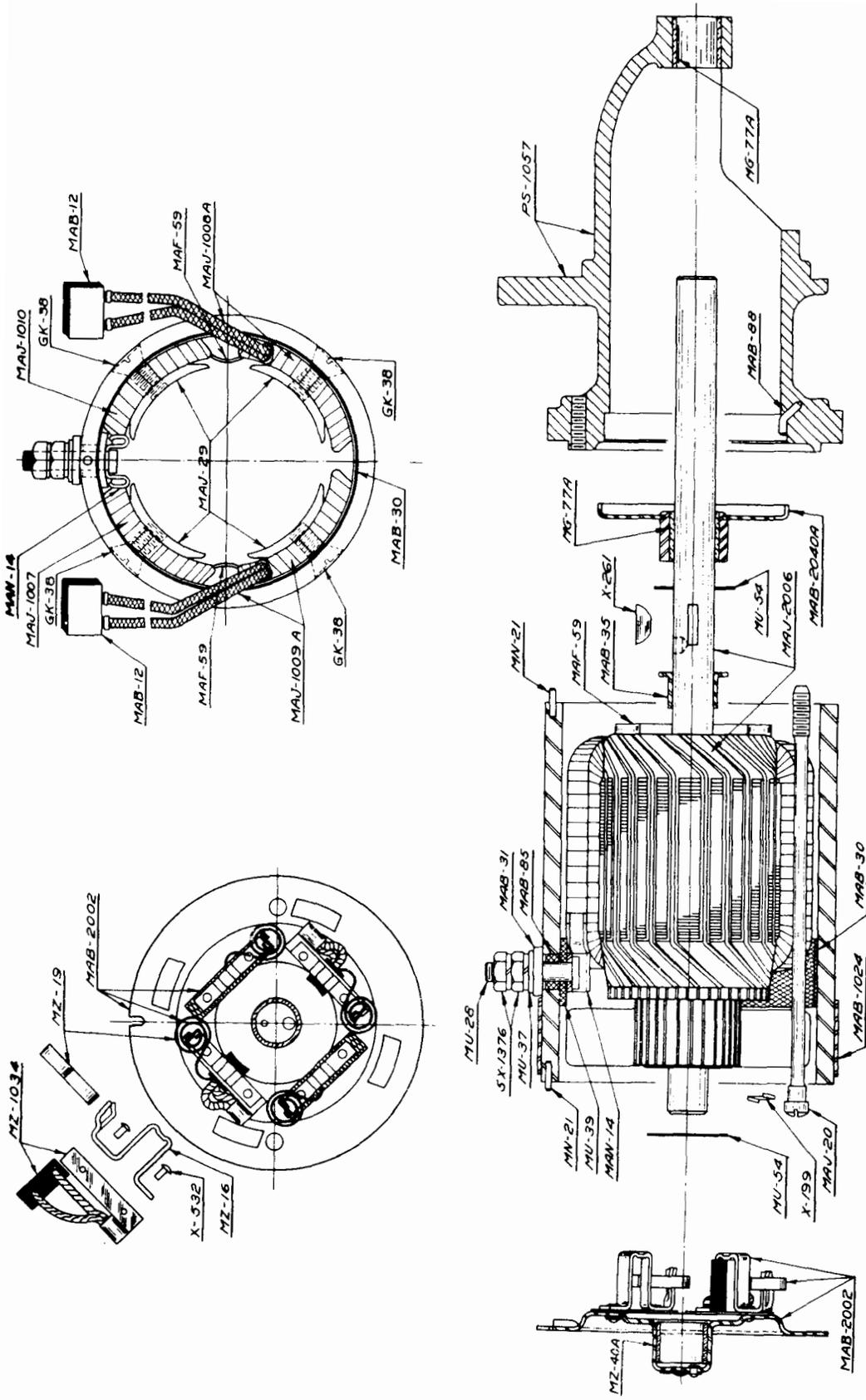
Frame & Field Assy. With Terminal Post & Parts Used With					Armature Assy. & Parts Used With					
Part No.	No. Used	Name of Part						Part No.	No. Used	Name of Part
			1	2	3	4	5			
MAJ-20	2	1	2	3	4	5	MAJ-2006	1	Armature Assembly	
(MAJ-2001)	1	Frame Screw					MAB-35	1	Bearing Thrust Spacer	
GK-38	4	Frame & Field Assy.					MU-54	2	Thrust Washer - 1/32" Thick	
MAB-30	1	Pole Piece Screw					X-261	1	#6 Woodruff Key	
MAB-31	1	Field Connection Ins.					<u>Miscellaneous Parts</u>			
MAB-85	1	Insulating Washer					EB-31	1	Bendix Drive Assembly	
MAF-59	2	Insulating Bushing					MAB-1024	1	Head Band Assembly	
MAJ-29	4	Field Coil Connector					MAB-2040A	1	Intermediate Brg. Assy.	
MAJ-1007	1	Pole Piece					MG-77A	1	Absorbent Bronze Brg.	
MAJ-1008A	1	Field Coil - U.L.					PS-1057	1	Pinion Housing Assy.	
		Field Coil & Brush Assy. - L.R.					MAB-88	1	Dowel Pin	
MAB-12	1	Brush					MG-77A	1	Absorbent Bronze Brg.	
MAJ-1009A	1	Field Coil & Brush Assy. - L.L.					X-715	1	#10-32x1 1/4 Rd. Hd. Screw	
		Brush					6X-794	1	#10-32 Square Nut	
MAB-12	1	Field Coil - U.R.							1 2 3 4 5	
MAJ-1010	1	Terminal					(Issued 12/13/38)			
MAN-14	1	Dowel Pin								
MEV-21	2	Terminal Post								
MU-28	1	5/16 Plain Washer								
MU-37	1	Insulating Washer								
MU-39	1	5/16 Lock Washer								
X-1014	1	5/16-24 Hex. Nut								
5X-1376	1	1/4 Lock Washer								
X-199	2	5/16 Lock Washer								
X-1014	1	5/16-24 Hex. Nut								
5X-1376	1									
<u>Comm. End Plate Assy. & Parts Used With</u>										
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			

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MAJ-4021 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAJ-4024 STARTING MOTOR PARTS LIST

MAJ-4024

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

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAJ-20	2					Frame Screw
(MAJ-2001)	1					Frame & Field Assy.
GK-38	4					Pole Piece Screw
MAB-30	1					Field Connection Ins.
MAB-31	1					Ins. Washer
MAB-85	1					Ins. Bushing
MAF-59	2					Field Coil Connection
MAJ-29	4					Pole Piece
MAJ-1007	1					Field Coil - U.L.
MAJ-1008A	1					Field Coil & Brush Assy.- L.R.
MAB-12	1					Brush
MAJ-1009A	1					Field Coil & Brush Assy.- L.L.
MAB-12	1					Brush
MAJ-1010	1					Field Coil - U.R.
MAN-14	1					Terminal
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 Assy. & 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

Armature Assembly & Parts Used With

MAJ-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

Miscellaneous Parts

Part No.	No. Used	Name of Part				
		1	2	3	4	5
EB-31	1					Bendix Drive Assembly
MAB-1024	1					Head Band Assembly
MAB-2040	1					Intermediate Brg. Assy.
MG-77A	1					Absorbent Bronze Brg.
PS-1058	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
6X-794	1					#10-32 Square Nut
						1 2 3 4 5

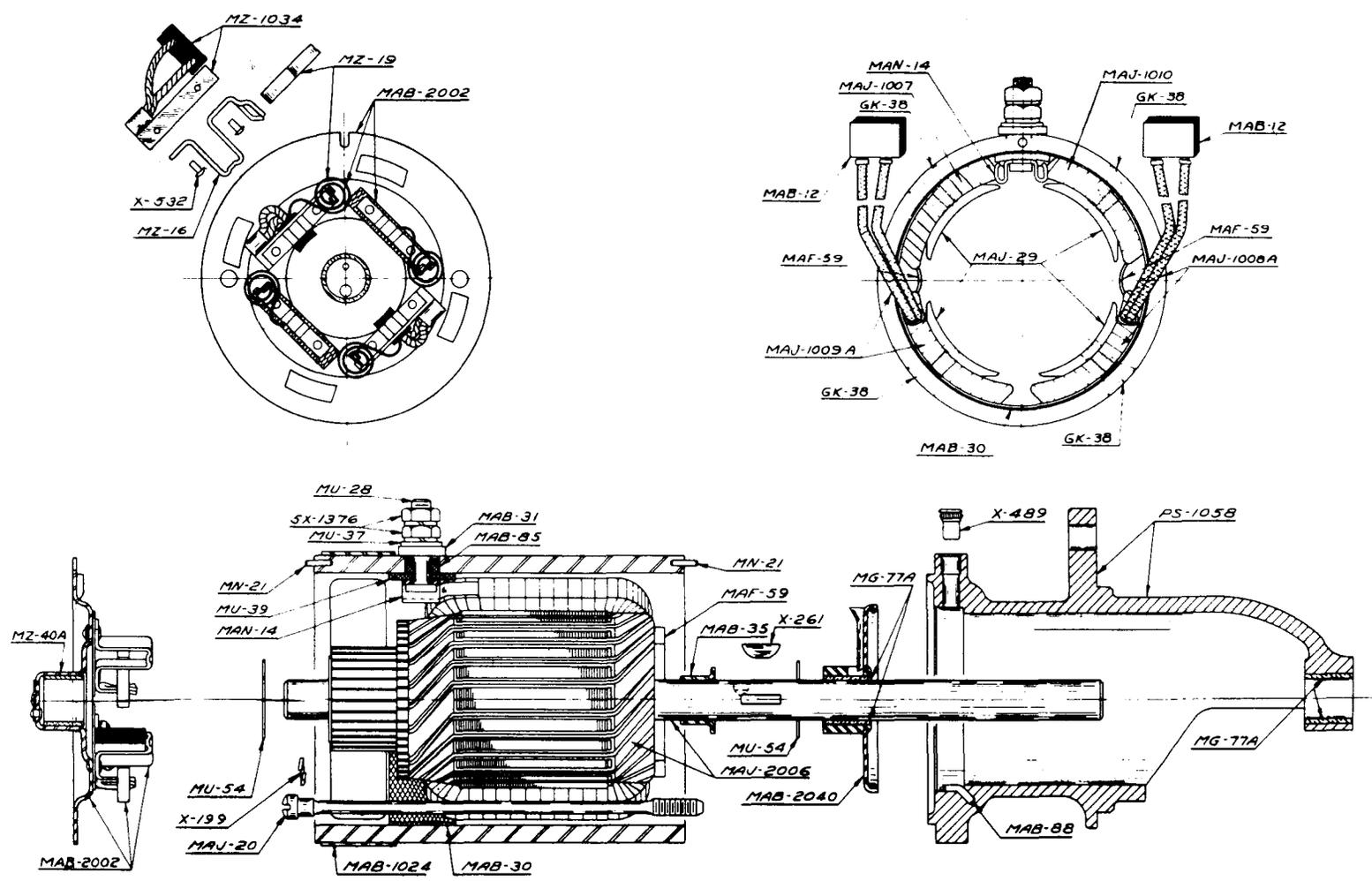
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MAJ-4024 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAJ-4033 STARTING MOTOR PARTS LIST

MAJ-4033

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAJ-20	2	Frame Screw					
(MAJ-2001)	1	Frame & Field Assy.					
GK-38	4	Pole Piece Screw					
MAB-14	1	Terminal					
MAB-30	1	Field Connection Ins.					
MAB-31	1	Insulating Washer					
MAB-85	1	Insulating Bushing					
MAF-59	2	Field Coil Connector					
MAJ-29	4	Pole Piece					
MAJ-1007	1	Field Coil - U.L.					
MAJ-1008A	1	Field Coil & Brush Assy.- L.R.					
MAB-12	1	Brush					
MAJ-1009A	1	Field Coil & Brush Assy.- L.L.					
MAB-12	1	Brush					
MAJ-1010	1	Field Coil - U.R.					
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
MAJ-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-7	1	Bendix Drive Assy.					
MAB-1024	1	Head Band Assembly					
MAB-2040A	1	Intermediate Brg. Assy.					
MG-77A	1	Absorbent Bronze Brg.					
PS-1082	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					
6X-794	1	#10-32 Square Nut					
			1	2	3	4	5

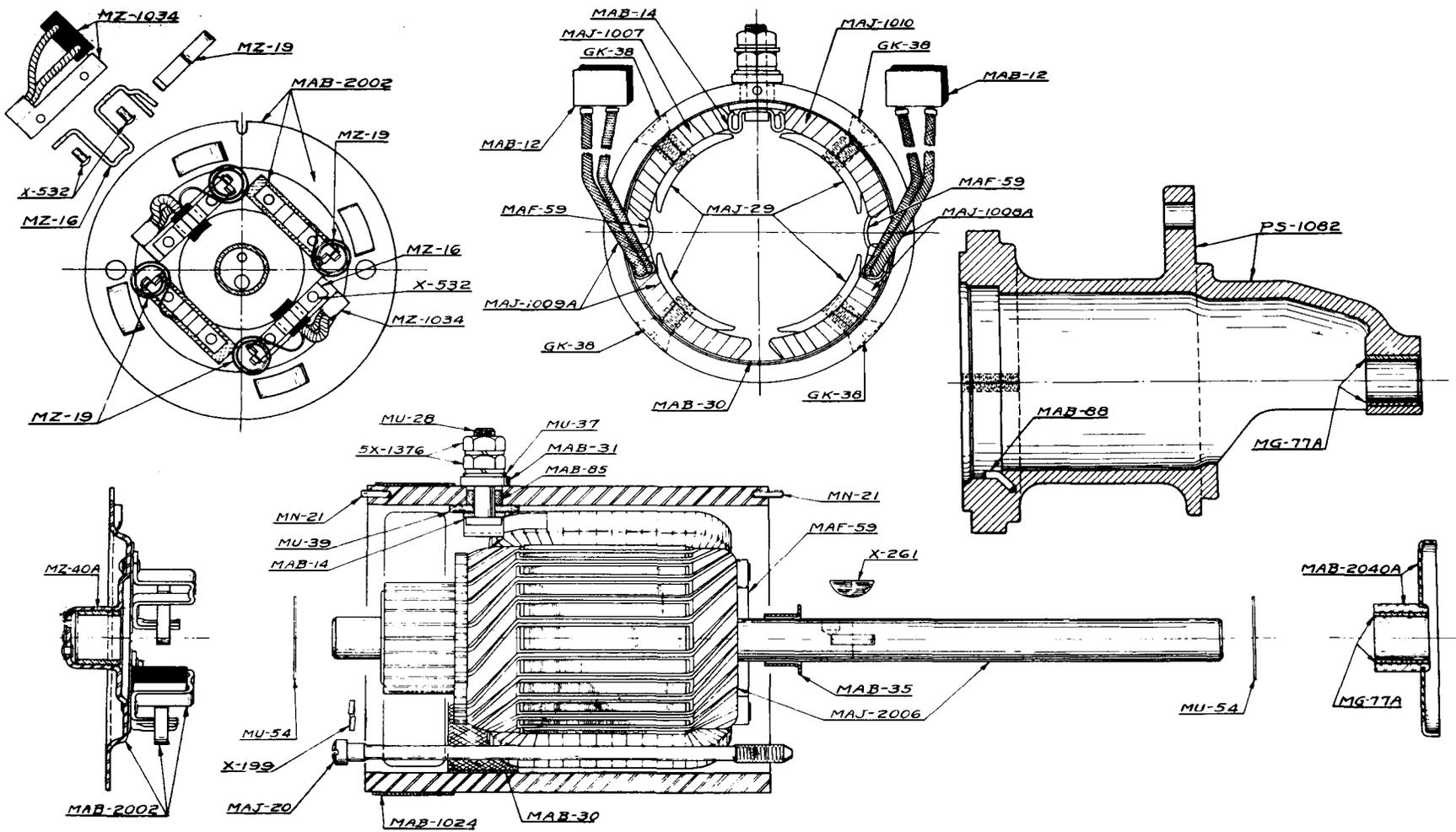
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MAJ-4033 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAJ-4034 STARTING MOTOR PARTS LIST

MAJ-4034

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAJ-20	2	Frame Screw				
(MAJ-2059)	1	Frame & Field Assy.				
GK-38	4	Pole Piece Screw				
MAB-14	1	Terminal				
MAB-30	1	Field Connection Ins.				
MAB-31	1	Ins. Washer				
MAB-85	1	Ins. Bushing				
MAF-59	2	Field Coil Connector				
MAJ-29	4	Pole Piece				
MAJ-1007	1	Field Coil - U.L.				
MAJ-1008A	1	Field Coil & Brush Assy. - L.R.				
MAB-12	1	Brush				
MAJ-1009A	1	Field Coil & Brush Assy. - L.L.				
MAB-12	1	Brush				
MAJ-1010	1	Field Coil - U.R.				
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				

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
MAJ-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-7	1	Bendix Drive Assy.				
MAB-1024	1	Head Band Assembly				
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				
6X-794	1	#10-32 Square Nut				

Switch Assembly & Parts Used With

SS-6L	1	Connector				
SS-4001	1	Solenoid Starting Switch				
X-196	1	#10 Lock Washer				
6X-832	2	5/16-24 Hex. Nut				
X-1014	2	5/16 Lock Washer				
6X-1372	1	#10-32 Hex. Nut				
6X-321	2	#10-32x5/16 Rd. Hd. Screw				
X-1014	1	5/16 Lock Washer				
X-1274	2	#10 Skpf. Washer				
5X-1376	1	5/16-24 Hex. Nut				
		1	2	3	4	5

(Issued 9-24-34)

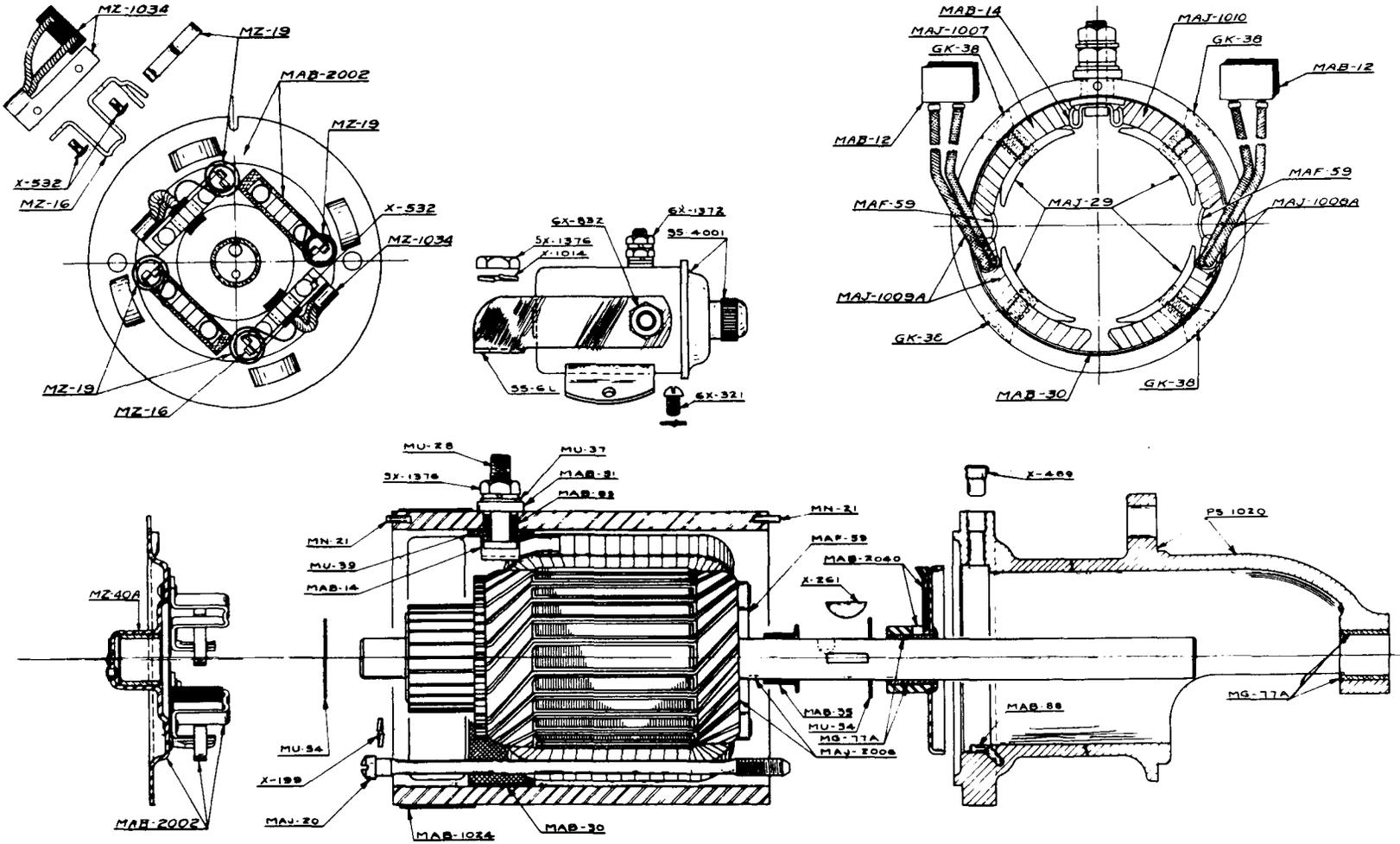
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MAJ-4034 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAJ-4035 STARTING MOTOR PARTS LIST

MAJ-4035

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAJ-20	2	Frame Screw				
(MAJ-2047)	1	Frame & Field Assy.				
GK-38	4	Pole Piece Screw				
MAB-30	1	Field Connection Ins.				
MAB-83	1	Insulating Washer				
MAB-84	1	Terminal Post				
MAF-31	1	Insulating Bushing				
MAF-48	2	Insulating Washer				
MAF-59	2	Field Coil Connector				
MAJ-29	4	Pole Piece				
MAJ-1007B	1	Field Coil - U.L.				
MAJ-1008A	1	Field Coil & Brush Assy. - L.R.				
MAB-12	1	Brush				
MAJ-1009A	1	Field Coil & Brush Assy. - L.I.				
MAB-12	1	Brush				
MAJ-1010A	1	Field Coil - U.R.				
MH-21	2	Dowel Pin				
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
MAJ-2006	1	Armature Assembly				
MAB-35	1	Brg. Thrust Spacer				
MU-54	2	Thrust Washer				
X-261	1	#6 Woodruff Key				

Switch Assembly & Parts Used With

SW-3737S	1	Starting Switch				
X-196	4	#10 Lock Washer				
6X-321	4	#10-32x5/16 Rd. Hd. Screw				

Miscellaneous Parts

EBA-7	1	Bendix Drive Assy.				
MAB-1024	1	Head Band Assembly				
MAB-2040A	1	Intermediate Brg. Assy.				
MG-77A	1	Absorbent Bronze Brg.				
PS-1087	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				
6X-794	1	#10-32 Square Nut				
		1	2	3	4	5

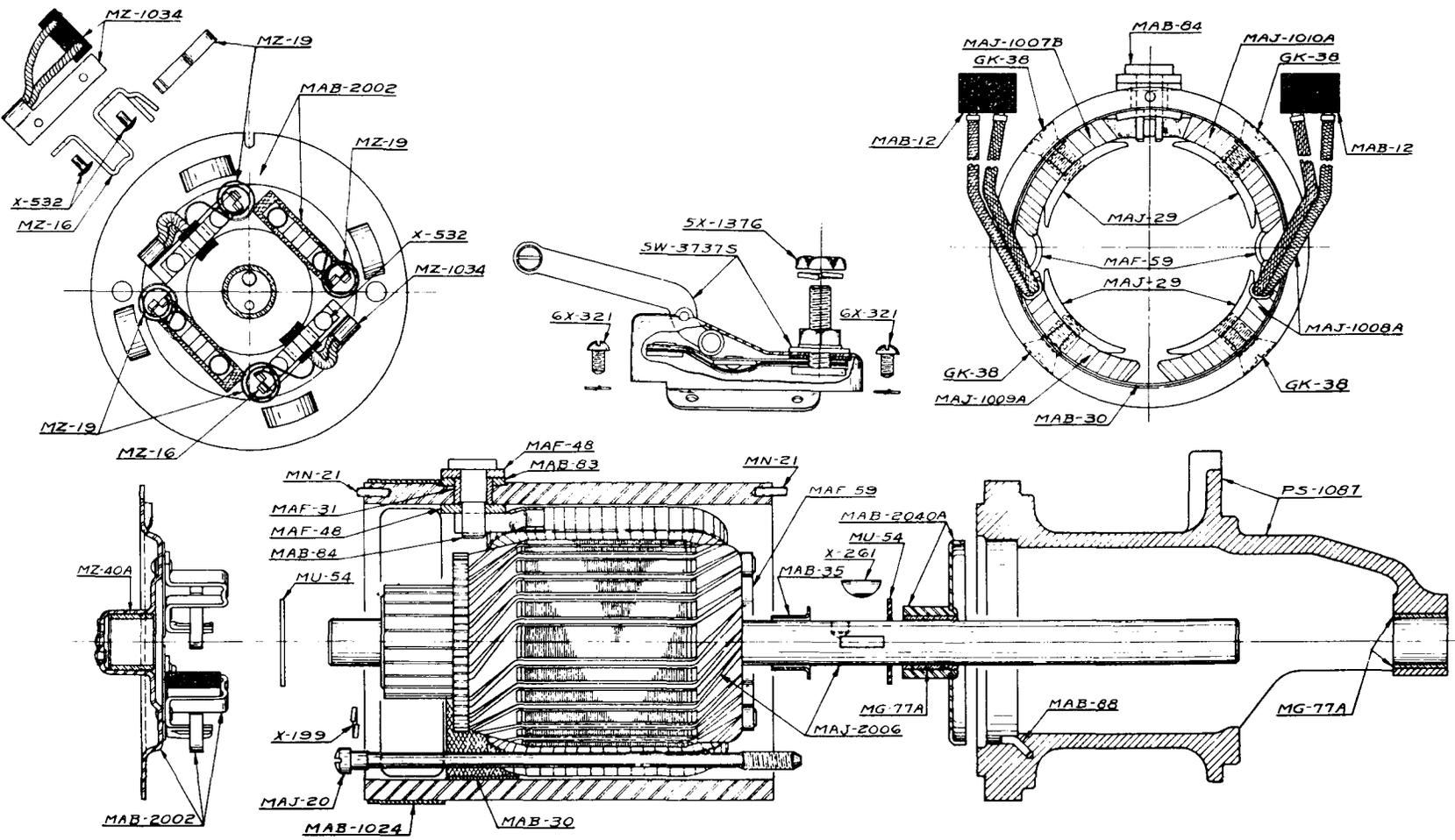
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(R-3-24-37)

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MAJ-4035 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAJ-4038 STARTING MOTOR PARTS LIST

MAJ-4038

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAJ-20	2					Frame Screw
(MAJ-2001)	1					Frame & Field Assy.
GK-38	4					Pole Piece Screw
MAB-14	1					Terminal
MAB-30	1					Field Connection Ins.
MAB-31	1					Ins. Washer
MAB-85	1					Ins. Bushing
MAF-59	2					Field Coil Connector
MAJ-29	4					Pole Piece
MAJ-1007	1					Field Coil - U.L.
MAJ-1008A	1					Field Coil & Brush Assy. - L.R.
MAB-12	1					Brush
MAJ-1009A	1					Field Coil & Brush Assy. - L.L.
MAB-12	1					Brush
MAJ-1010	1					Field Coil - U.R.
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 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
MAJ-2046	1					Armature Assembly
MAB-35	1					Brg. Thrust Spacer
MU-54	2					Thrust Washer
X-261	1					#6 Woodruff Key
<u>Miscellaneous Parts</u>						
EB-87	1					Bendix Drive Assy.
MAB-1024	1					Head Band Assembly
MAB-2040	1					Intermediate Brg. Assy.
MG-77A	1					Absorbent Bronze Brg.
PS-1029	1					Pinion Housing Assy.
MAB-88	1					Dowel Pin
MP-41A	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

(Issued 2-13-35)
(R-10-30-36)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAJ-4040 STARTING MOTOR PARTS LIST

MAJ-4040
(Issued 3-13-56)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
MAJ-20	2	Bolt, Thru
MAJ-2001	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAB-12 †	2	Brush
MAB-30	1	Insulation, Field Conn.
MAB-31	1	Washer, Ins., Term. Stud, Outer
MAB-65	1	Terminal
MAB-85	1	Bushing, Ins., Term. Stud
MAJ-3005S	1	FIELD COIL PACKAGE
MAF-59	2	Connector, Field Coil
MAJ-1007	1	Coil, Field, U. L.
MAJ-1008	1	Coil, Field, L. R.
MAJ-1009	1	Coil, Field, L. L.
MAJ-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-2002	1	Head Assy., Comm. End
MZ-19	4	Spring, Brush
MZ-1034S †	2	Brush, Grounded

Armature Assembly & Parts Used With

MAJ-2046	1	ARMATURE ASSEMBLY
MAB-35	1	Spacer, Bearing Thrust
MU-54	2	Washer, Thrust, C. E. & Int., 1/32" Thick
X-261	1	Key, Woodruff, D. E. #6

Miscellaneous Parts

Part No.	No. Used	Name of Part
EB-87	1	BENDIX DRIVE ASSEMBLY
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-8711	1	Shaft & Pinion
MAB-1024E	1	Band, Cover
MAB-2040	1	BEARING ASSY., INTERMEDIATE
MG-77A	1	Bearing, Absorbent Bronze
PS-1043	1	Housing Assy., Pinion
MAB-88	1	Pin, Dowel
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

† BRUSH SET, SERVICE, MAB-2012AS

UNIT	APPLICATION
MAJ-4040	Continental

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAJ-4041 STARTING MOTOR PARTS LIST

MAJ-4041

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAJ-20	2	Frame Screw				
(MAJ-2001)	1	Frame & Field Assembly				
GK-38	4	Pole Piece Screw				
MAB-14	1	Terminal				
MAB-30	1	Field Connection Ins.				
MAB-31	1	Ins. Washer				
MAB-85	1	Ins. Bushing				
MAF-59	2	Field Coil Connector				
MAJ-29	4	Pole Piece				
MAJ-1007	1	Field Coil - U.L.				
MAJ-1008A	1	Field Coil & Brush Assy.- L.R.				
MAB-12	1	Brush				
MAJ-1009A	1	Field Coil & Brush Assy.- L.L.				
MAB-12	1	Brush				
MAJ-1010	1	Field Coil - U.R.				
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
MAJ-2006	1	Armature Assembly				
MAB-35	1	Brg. Thrust Spacer				
MU-54	2	Thrust Washer				
X-261	1	#6 Woodruff Key				

Miscellaneous Parts

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. Sc.				
8X-794	1	#10-32 Square Nut				
		1	2	3	4	5

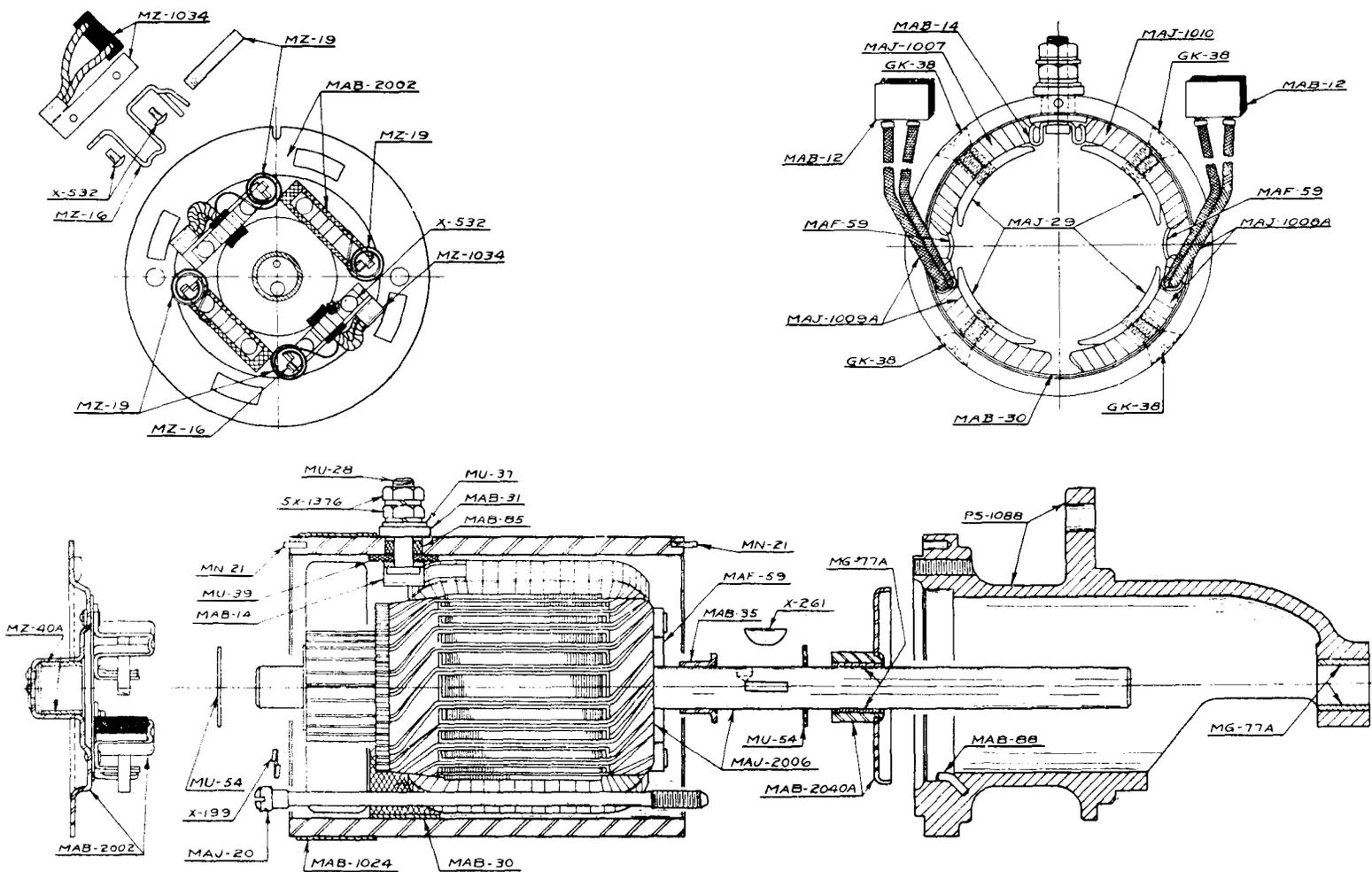
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MAJ-4041 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAJ-4042 STARTING MOTOR PARTS LIST

MAJ-4042

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part
		1 2 3 4 5
MAJ-20	2	Frame Screw
(MAJ-2001)	1	Frame & Field Assembly
GK-38	4	Pole Piece Screw
MAB-14	1	Terminal
MAB-30	1	Field Connection Ins.
MAB-31	1	Ins. Washer
MAB-85	1	Ins. Bushing
MAF-59	2	Field Coil Connector
MAJ-29	4	Pole Piece
MAJ-1007	1	Field Coil - U.L.
MAJ-1008A	1	Field Coil & Brush Assy.- L.R.
MAB-12	1	Brush
MAJ-1009A	1	Field Coil & Brush Assy.- L.L.
MAB-12	1	Brush
MAJ-1010	1	Field Coil - U.R.
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 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
MAJ-2046	1	Armature Assembly
MAB-35	1	Bearing Thrust Spacer
MU-54	2	Thrust Washer
X-261	1	#6 Woodruff Key
<u>Miscellaneous Parts</u>		
EB-87	1	Bendix Drive Assembly
MAB-1024	1	Head Band Assembly
MAB-2040A	1	Intermediate Brg. Assy.
MG-77A	1	Absorbent Bronze Brg.
PS-1103	1	Pinion Housing Assy.
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

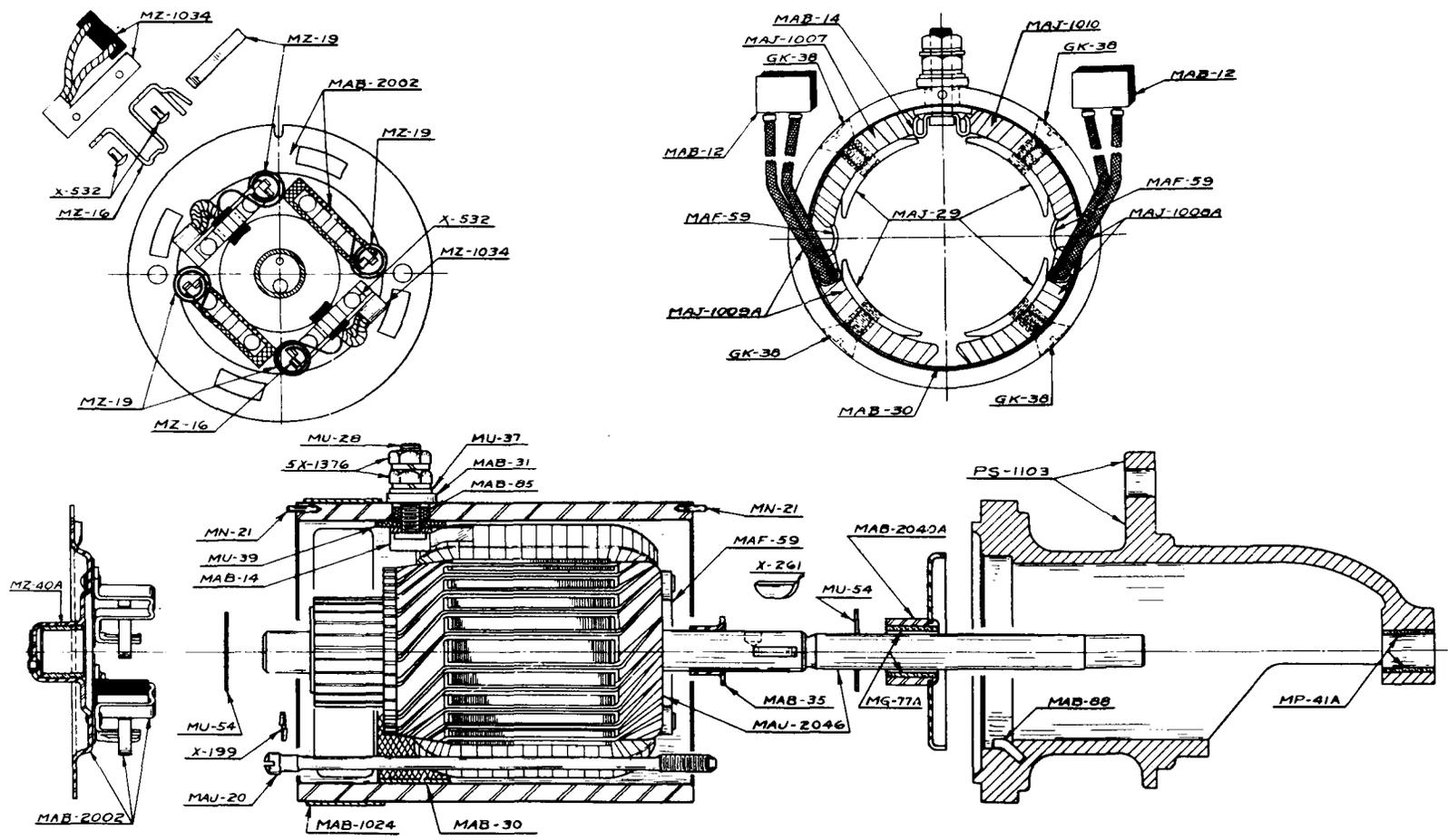
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"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

MAJ-4042 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAJ-4044 STARTING MOTOR PARTS LIST

MAJ-4044

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAJ-20	2	Frame Screw					
(MAJ-2047)	1	Frame & Field Assy.					
GK-38	4	Pole Piece Screw					
MAB-30	1	Field Connection Ins.					
MAB-83	1	Insulating Washer					
MAB-84	1	Terminal Post					
MAF-31	1	Insulating Bushing					
MAF-48	2	Insulating Washer					
MAF-59	2	Field Coil Connector					
MAJ-29	4	Pole Piece					
MAJ-1007B	1	Field Coil - U.L.					
MAJ-1008A	1	Field Coil & Brush Assy.- L.R.					
MAB-12	1	Brush					
MAJ-1009A	1	Field Coil & Brush Assy.- L.L.					
MAB-12	1	Brush					
MAJ-1010A	1	Field Coil - U.R.					
MN-21	2	Dowel Pin					
X-199	2	1/4 Lock Washer					

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
MAJ-2048	1	Armature Assembly					
MAB-35	1	Bearing Thrust Spacer					
MU-54	2	Thrust Washer					
X-261	1	#6 Woodruff Key					

Switch Assembly & Parts Used With

SW-3737CS	1	Starting Switch					
X-196	4	#10 Lock Washer					
8X-321	4	#10-32x5/16 Rd. Hd. Sc.					
X-1014	1	5/16 Lock Washer					
5X-1376	1	5/16-24 Hex. Nut					

Miscellaneous Parts

EB-99	1	Bendix Drive Assembly					
MAB-1024	1	Head Band Assembly					
MAC-1058	1	Drive End Head Assy.					
MAB-49A	1	Absorbent Bronze Brg.					
X-489	1	1/4 Oiler - Press in Type					
X-715	1	#10-32x1 1/4 Rd. Hd. Sc.					
8X-794	1	#10-32 Square Nut					
			1	2	3	4	5

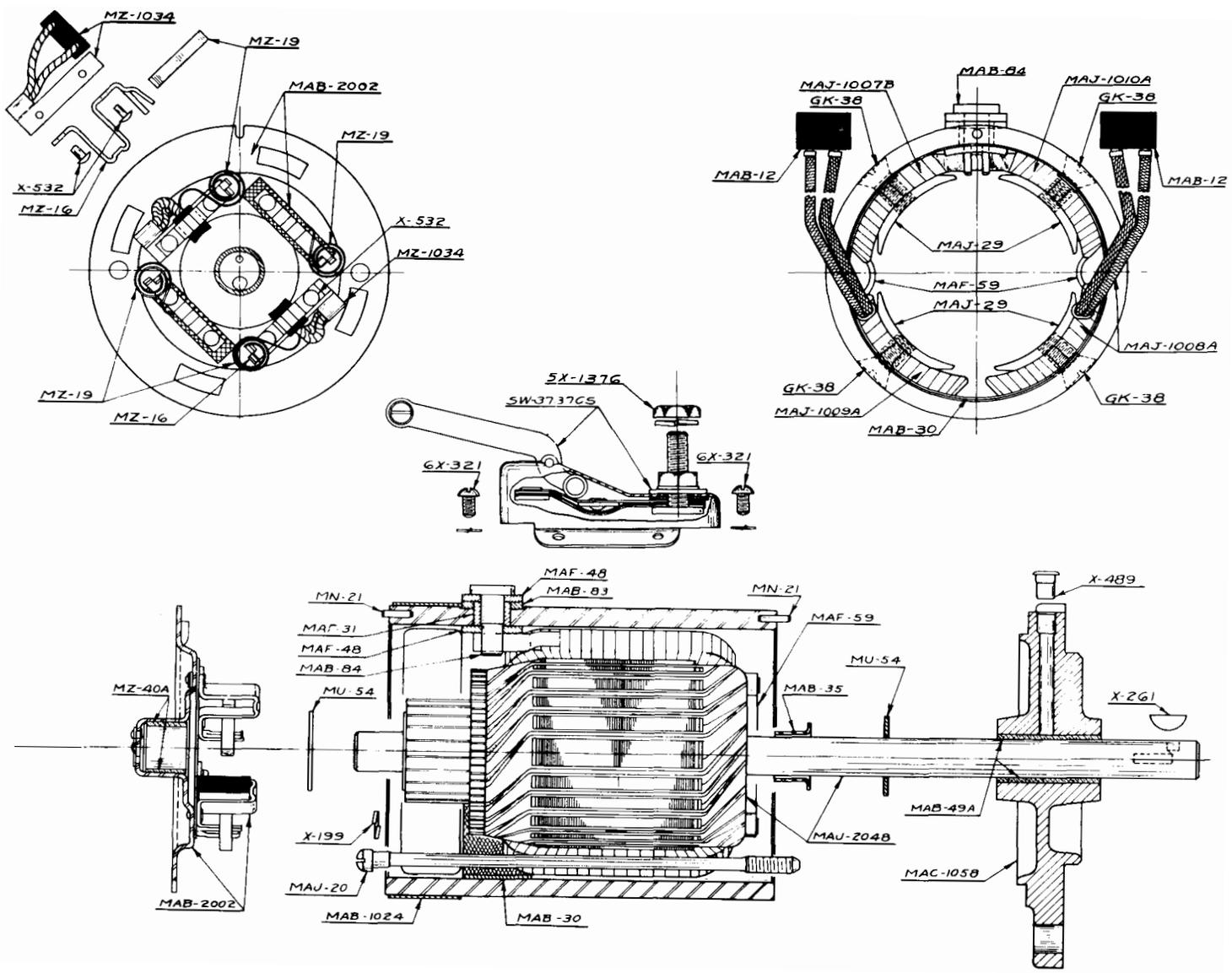
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MAJ-4044 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAJ-4045 STARTING MOTOR PARTS LIST

MAJ-4045

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAJ-20	2	Frame Screw				
(MAJ-2001)	1	Frame & Field Assy.				
GK-38	4	Pole Piece Screw				
MAB-14	1	Terminal				
MAB-30	1	Field Connection Ins.				
MAB-31	1	Insulating Washer				
MAB-85	1	Insulating Bushing				
MAF-59	2	Field Coil Connector				
MAJ-29	4	Pole Piece				
MAJ-1007	1	Field Coil - U.L.				
MAJ-1008A	1	Field Coil & Brush Assy. - L.R.				
MAB-12	1	Brush				
MAJ-1009A	1	Field Coil & Brush Assy. - L.L.				
MAB-12	1	Brush				
MAJ-1010	1	Field Coil - U.R.				
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

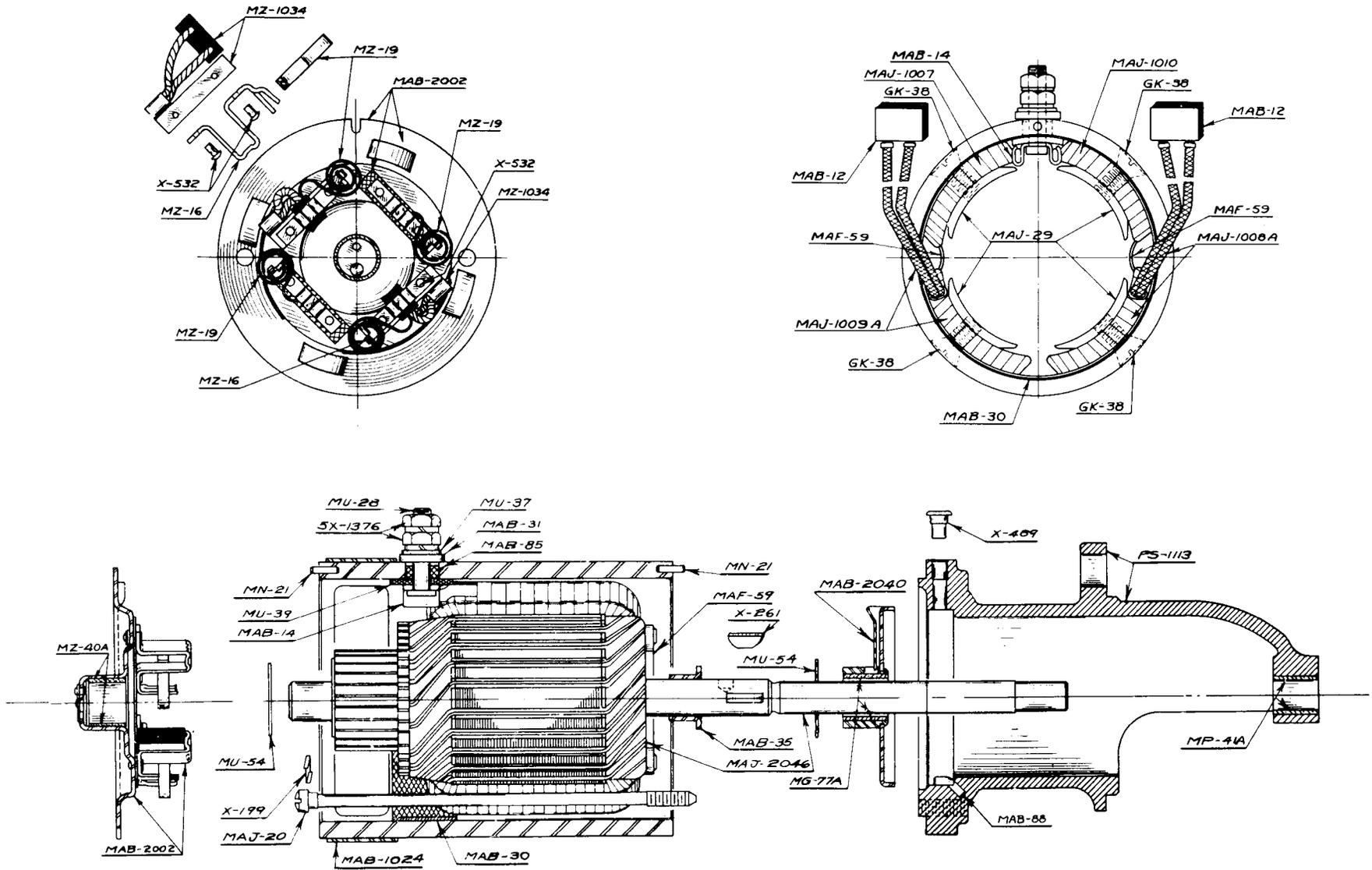
MAB-2002	1	Comm. End Plate Assy.				
MZ-16	2	Brush Holder				
MZ-19	4	Brush Spring				
MZ-40A	1	Absorbent Bronze Brg.				
MZ-1034	2	Brush Assy. - Grounded				
X-532	4	1/8x1/4 Oval Hd. Tub. Rivet				
		1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAJ-2046	1	Armature Assembly				
MAB-35	1	Bearing Thrust Spacer				
MU-54	2	Thrust Washer				
X-261	1	#6 Woodruff Key				
<u>Miscellaneous Parts</u>						
EBA-1	1	Bendix Drive Assy.				
MAB-1024	1	Head Band Assembly				
MAB-2040	1	Intermediate Brg. Assy.				
MG-77A	1	Absorbent Bronze Bearing				
PS-1113	1	Pinion Housing Assembly				
MAB-88	1	Dowel Pin				
MP-41A	1	Absorbent Bronze Bearing				
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 7-19-37)

MAJ-4045 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAJ-4046 STARTING MOTOR PARTS LIST

MAJ-4046

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAJ-20	2	Frame Screw				
(MAJ-2059)	1	Frame & Field Assy.				
GK-38	4	Pole Piece Screw				
MAB-14	1	Terminal				
MAB-30	1	Field Connection Ins.				
MAB-31	1	Insulating Washer				
MAB-85	1	Insulating Bushing				
MAF-59	2	Field Coil Connector				
MAJ-29	4	Pole Piece				
MAJ-1007	1	Field Coil - U.L.				
MAJ-1008A	1	Field Coil & Brush Assy.- L.R.				
MAB-12	1	Brush				
MAJ-1009A	1	Field Coil & Brush Assy.- L.L.				
MAB-12	1	Brush				
MAJ-1010	1	Field Coil - U.R.				
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
MAJ-2006	1	Armature Assembly				
MAB-35	1	Brg. Thrust Spacer				
MU-54	2	Thrust Washer				
X-261	1	#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

EBA-2	1	Bendix Drive Assy.				
MAB-1024	1	Head Band Assy.				
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

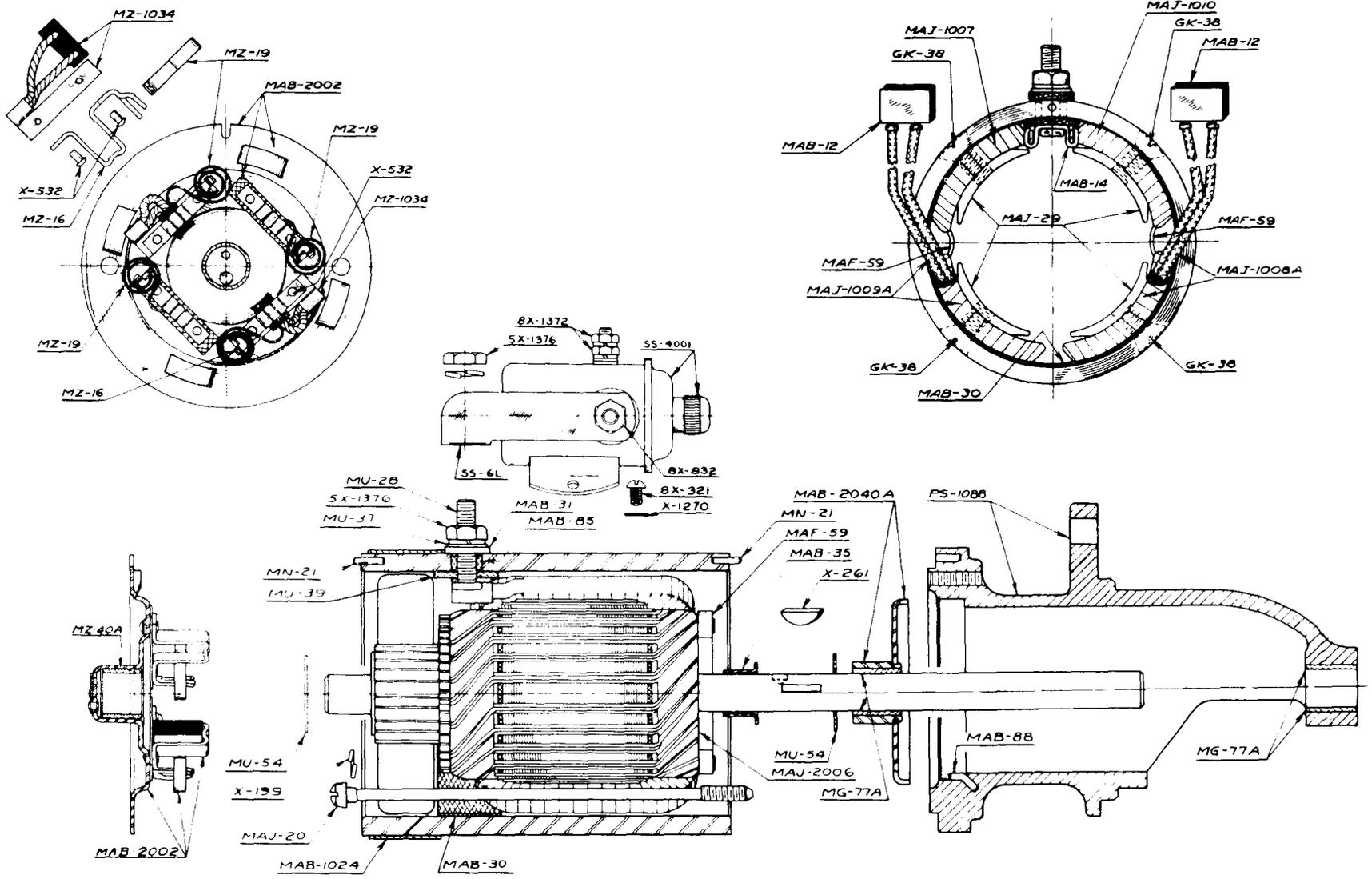
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MAJ-4046 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAJ-4048 STARTING MOTOR PARTS LIST

MAJ-4048

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAJ-20	2	Frame Screw					
(MAJ-2059)	1	Frame & Field Assy.					
GK-38	4	Pole Piece Screw					
MAB-14	1	Terminal					
MAB-30	1	Field Connection Ins.					
MAB-31	1	Ins. Washer					
MAB-85	1	Ins. Bushing					
MAF-59	2	Field Coil Connector					
MAJ-29	4	Pole Piece					
MAJ-1007	1	Field Coil - U.L.					
MAJ-1008A	1	Field Coil & Brush Assy. - L.R.					
MAB-12	1	Brush					
MAJ-1009A	1	Field Coil & Brush Assy. - L.L.					
MAB-12	1	Brush					
MAJ-1010	1	Field Coil - U.R.					
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-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. Tub. Rivet					
			1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAJ-2006	1	Armature Assy.					
MAB-35	1	Brg. Thrust Spacer.					
MU-54	2	Thrust Washer					
X-261	1	#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

EB-99	1	Bendix Drive Assy.					
MAB-1024	1	Head Band Assy.					
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

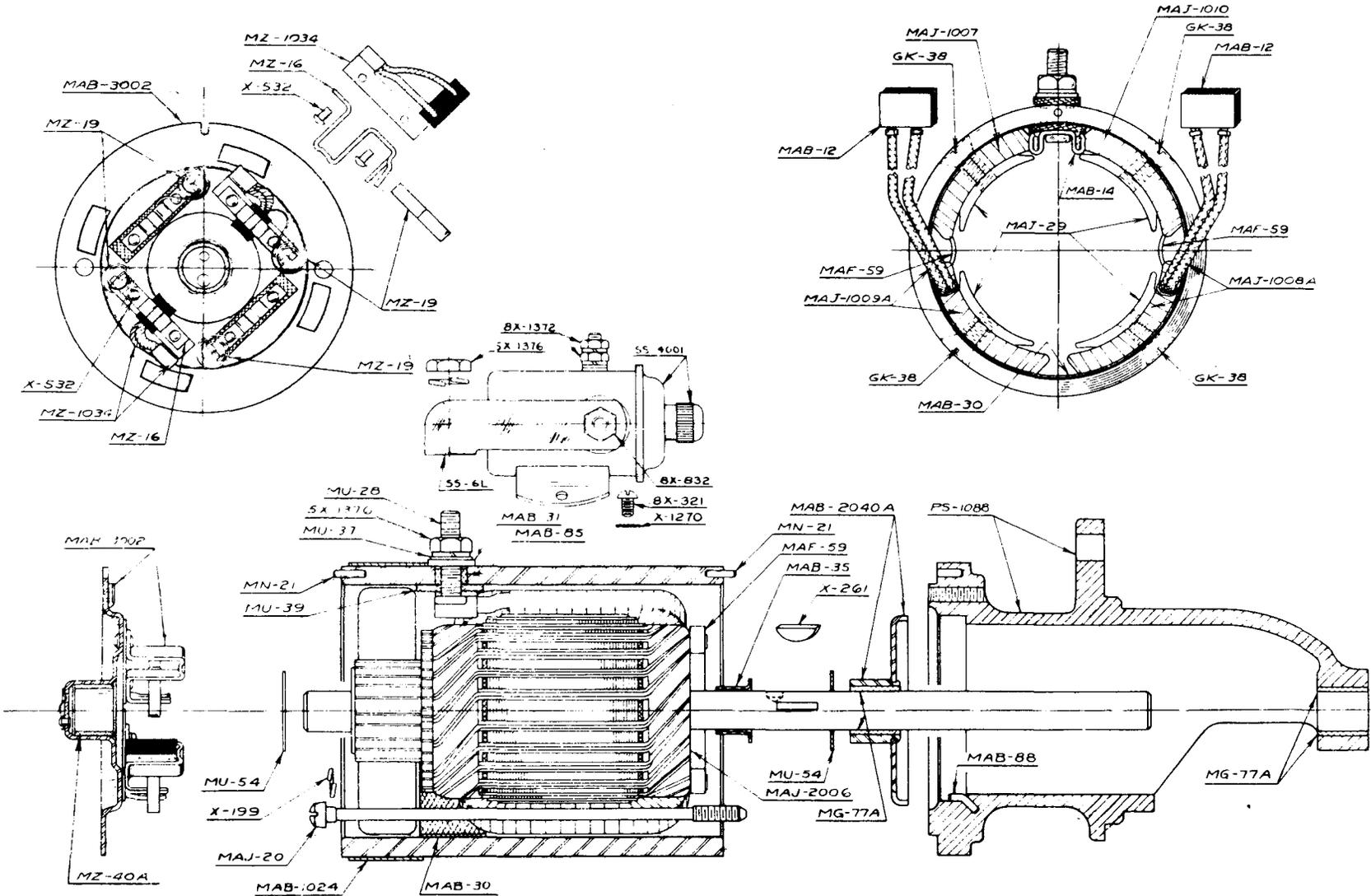
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MAJ-4048 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAJ-4049 STARTING MOTOR PARTS LIST

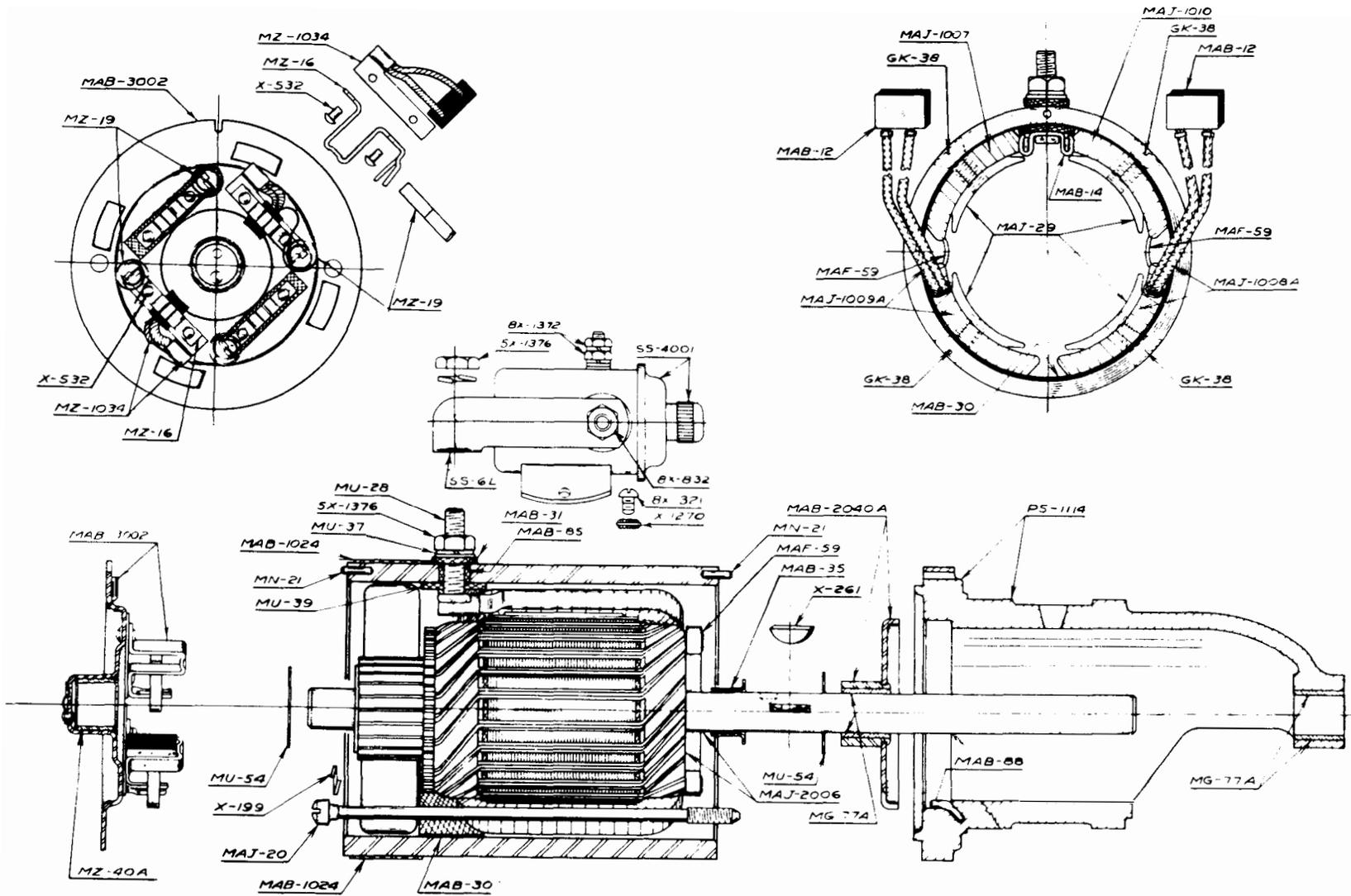
MAJ-4049

Frame & Field Assy. With Terminal Post & 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
MAJ-20	2	Frame Screw					MAJ-2006	1	Armature Assy.				
(MAJ-2059)	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-14	1	Terminal					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-1024	1	Head Band Assy.				
MAF-59	2	Field Coil Connector					MAB-2040A	1	Intermediate Brg. Assy.				
MAJ-29	4	Pole Piece					MG-77A	1	Absorbent Bronze Brg.				
MAJ-1007	1	Field Coil - U.L.					PS-1114	1	Pinion Housing Assy.				
MAJ-1008A	1	Field Coil & Brush Assy.-L.R.					MAB-88	1	Dowel Pin				
MAB-12	1	Brush					MG-77A	1	Absorbent Bronze Brg.				
MAJ-1009A	1	Field Coil & Brush Assy.-L.R.					X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
MAB-12	1	Brush					8X-794	1	#10-32 Square Nut				
MAJ-1010	1	Field Coil - U.R.					<u>Switch Assy. & Parts Used With</u>						
MN-21	2	Dowel Pin					SS-6L	1	Connector				
MU-28	1	Terminal Post					SS-4001	1	Solendid Starting Switch				
MU-37	1	5/16 Plain Washer					12X-196	1	#10 Lock Washer				
MU-39	1	Insulating Washer					8X-832	2	5/16-24 Hex. Nut				
X-1014	1	5/16 Lock Washer					12X-1014	2	5/16 Lock Washer				
5X-1376	1	5/16-24 Hex. Nut					8X-1372	1	#10-32 Hex. Nut				
X-199	2	1/4 Lock Washer					8X-321	2	#10-32x5/16 Rd. Hd. Screw				
X-1014	1	5/16 Lock Washer					X-1270	2	#10 Skpf. Washer				
5X-1376	1	5/16-24 Hex. Nut							1	2	3	4	5
<u>Comm. End Plate Assy. & Parts Used With</u>						(Issued 11-30-37)							
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.Tub.Rivet											
		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."



MAJ-4049 STARTING MOTOR ILLUSTRATION

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAJ-4050 STARTING MOTOR PARTS LIST

MAJ-4050

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAJ-20	2	Frame Screw					
(MAJ-2001)	1	Frame & Field Assembly					
GK-38	4	Pole Piece Screw					
MAB-30	1	Field Connection Ins.					
MAB-31	1	Ins. Washer					
MAB-35	1	Ins. Bushing					
MAF-59	2	Field Coil Connector					
MAJ-29	4	Pole Piece					
MAJ-1007	1	Field Coil - U.L.					
MAJ-1008A	1	Field Coil & Brush Assy.- L.R.					
MAB-12	1	BRUSH					
MAJ-1009A	1	Field Coil & Brush Assy.- L.L.					
MAB-12	1	BRUSH					
MAJ-1010	1	Field Coil - U.R.					
MAN-14	1	Terminal					
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
MAJ-2006	1	ARMATURE ASSEMBLY					
MAB-35	1	Brg. Thrust Spacer					
MU-54	2	Thrust Washer					
X-261	1	#5 Woodruff Key					
<u>Miscellaneous Parts</u>							
EBA-2	1	BENDIX DRIVE ASSEMBLY					
MAB-1024	1	Head Band Assembly					
MAB-2040	1	INTERMEDIATE BRG. ASSY.					
MG-77A	1	Absorbent Bronze Brg.					
PS-1116	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 5-10-39)

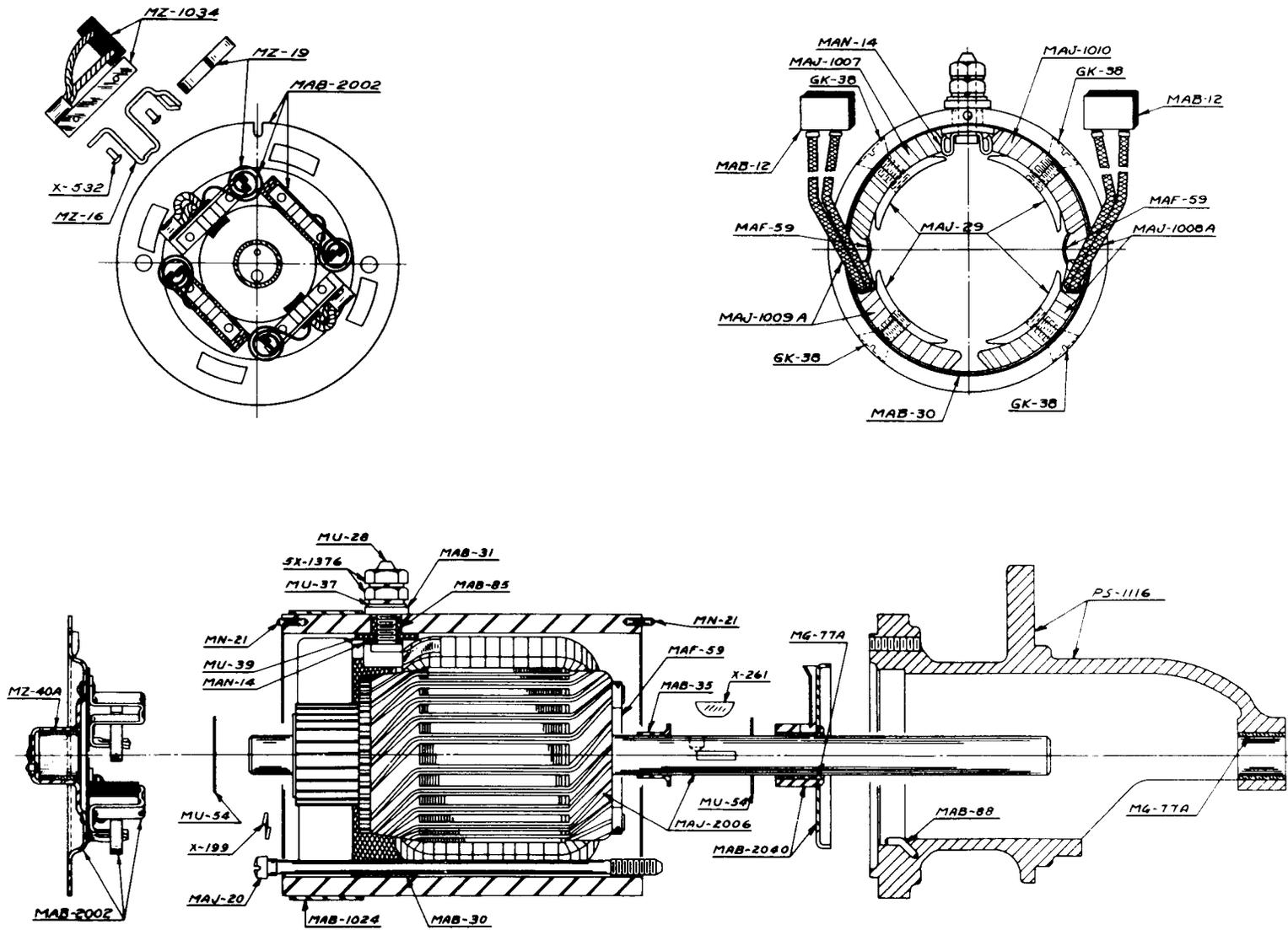
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"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

MAJ-4050 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAJ-4053 STARTING MOTOR PARTS LIST

MAJ-4053

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAJ-20	2	Frame Screw					
(MAJ-2059)	1	Frame & Field Assy.					
GK-38	4	Pole Piece Screw					
MAB-14	1	Terminal					
MAB-30	1	Field Connection Ins.					
MAB-31	1	Insulating Washer					
MAB-85	1	Insulating Bushing					
MAF-59	2	Field Coil Connector					
MAJ-29	4	Pole Piece					
MAJ-1007	1	Field Coil - U.L.					
MAJ-1008A	1	Field Coil & Brush Assy. - L.R.					
MAB-12	1	Brush					
MAJ-1009A	1	Field Coil & Brush Assy. - L.L.					
MAB-12	1	Brush					
MAJ-1010	1	Field Coil - U.R.					
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
MAJ-2006	1	Armature Assembly					
MAB-35	1	Brg. Thrust Spacer					
MU-54	2	Thrust Washer					
X-261	1	#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

EBA-7	1	Bendix Drive Assembly					
MAB-1024	1	Head Band Assembly					
MAB-2040A	1	Intermediate Brg. Assy.					
MG-77A	1	Absorbent Bronze Brg.					
PS-1082	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

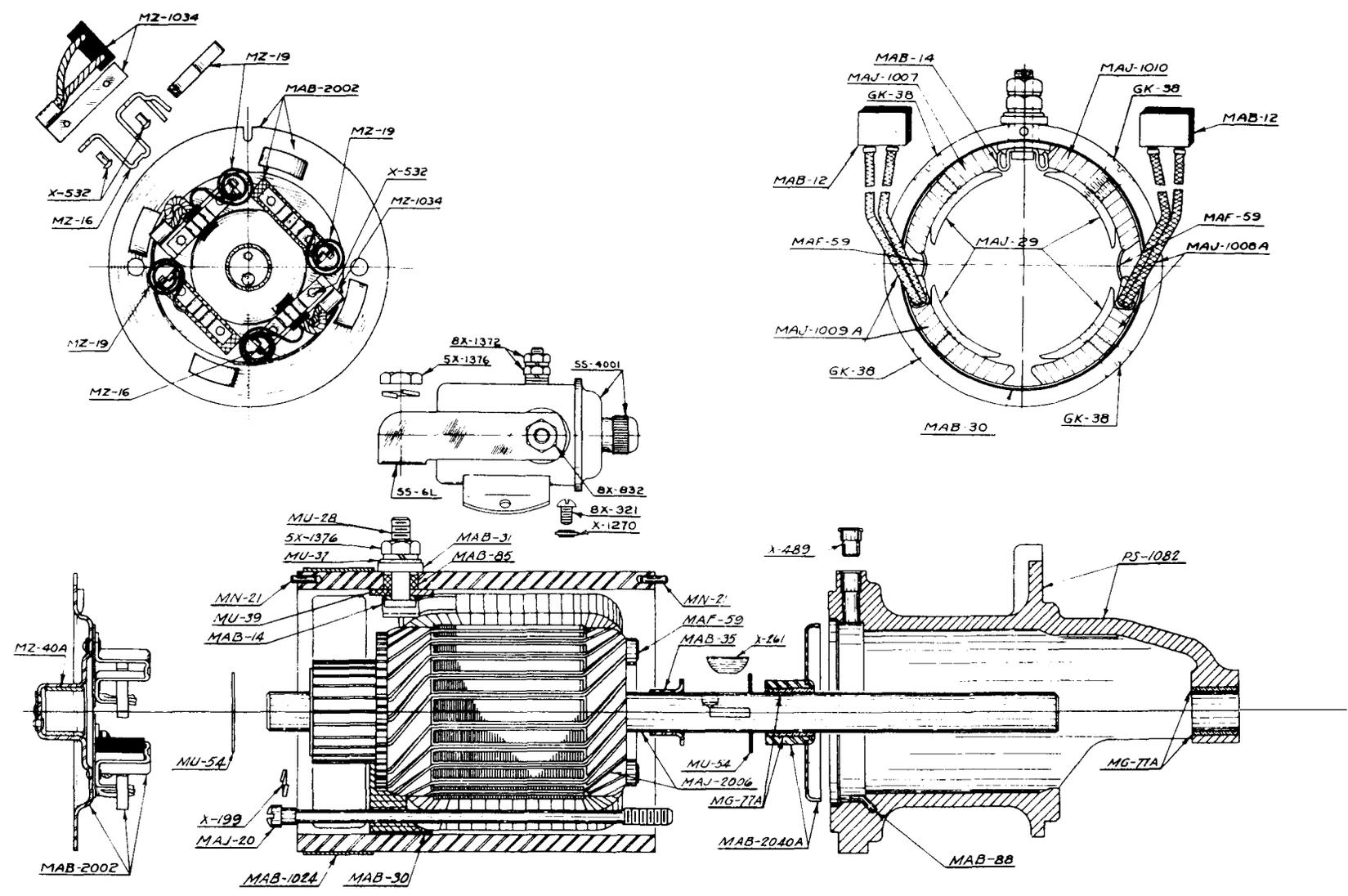
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"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

MAJ-4053 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAJ-4054 STARTING MOTOR PARTS LIST

MAJ-4054

Frame & Field Assembly with Terminal Post & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAJ-20	2	Frame Screw					
(MAJ-2059)	1	Frame & Field Assembly					
GK-38	4	Pole Piece Screw					
MAB-30	1	Field Connection Ins.					
MAB-31	1	Ins. Washer					
MAB-85	1	Ins. Bushing					
MAF-59	2	Field Coil Connector					
MAJ-29	4	Pole Piece					
MAJ-1007	1	Field Coil - U.L.					
MAJ-1008A	1	Field Coil & Brush Assy. - L.R.					
MAB-12	1	BRUSH					
MAJ-1009A	1	Field Coil & Brush Assy. - L.L.					
MAB-12	1	BRUSH					
MAJ-1010	1	Field Coil - U.R.					
MAN-14	1	Terminal					
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 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 BEARING					
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
MAJ-2046	1	ARMATURE ASSEMBLY					
MAB-35	1	Bearing Thrust Spacer					
MU-54	2	Thrust Washer					
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

EB-87	1	BENDIX DRIVE ASSEMBLY					
MAB-1024	1	Head Band Assembly					
MAB-2040A	1	INTERMEDIATE BRG. ASSY.					
MG-77A	1	Absorbent Bronze Brg.					
PS-1043	1	Pinion Housing Assembly					
MAB-88	1	Dowel Pin					
MP-41A	1	Absorbent Bronze Brg. 1/16 Wall					
X-715	1	#10-32x1 1/4 Rd. Hd. Screw					
8X-794	1	#10-32 Square Nut					
			1	2	3	4	5

(Issued 4-4-39)

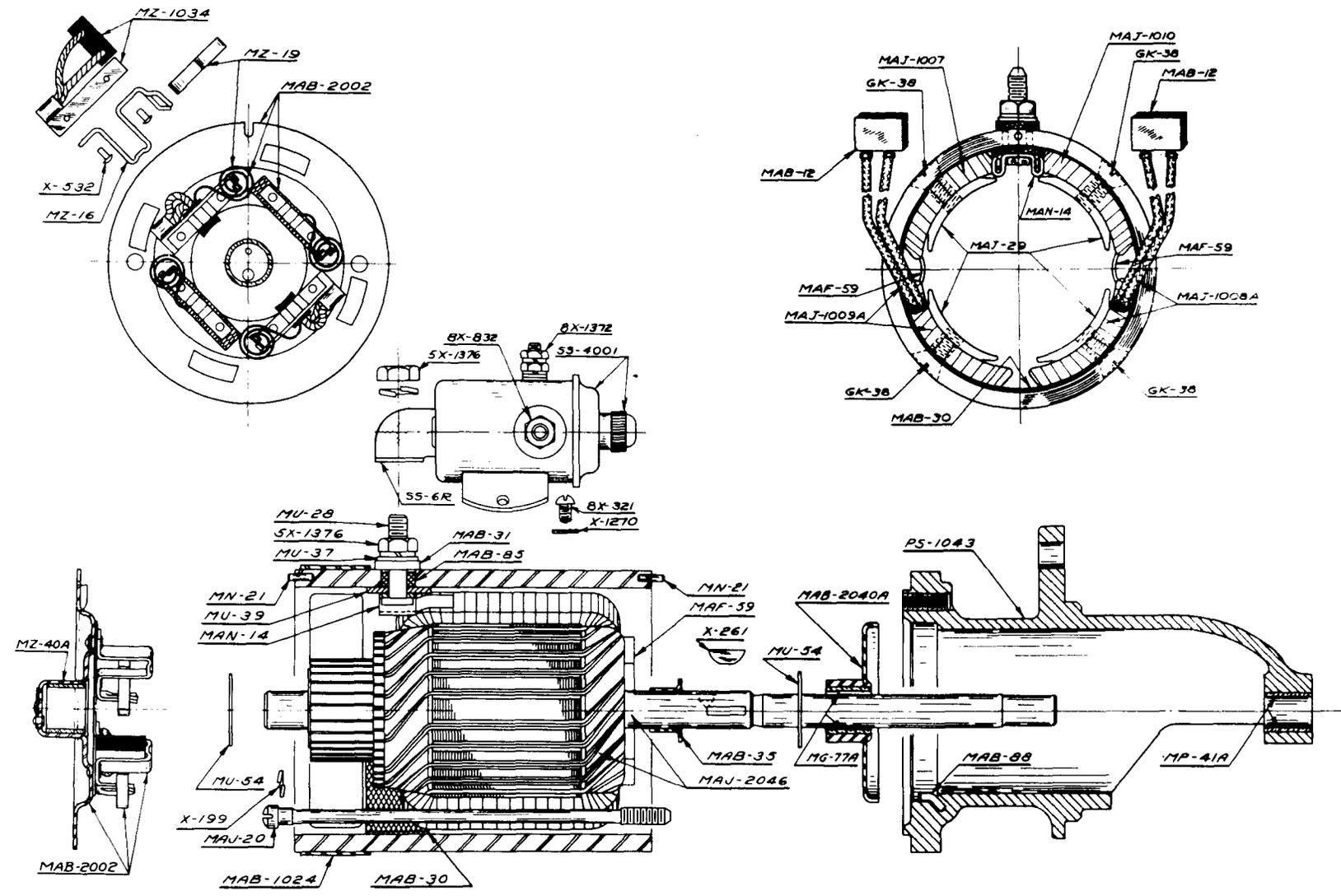
UNIT	APPLICATION
MAJ-4054	Continental, Nelson LeMoon

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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."

MAJ-4054 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAJ-4055 STARTING MOTOR PARTS LIST

MAJ-4055

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAJ-20	2	Frame Screw					
(MAJ-2059)	1	Frame & Field Assembly					
GK-38	4	Pole Piece Screw					
MAB-14	1	Terminal					
MAB-30	1	Field Connection Ins.					
MAB-31	1	Insulating Washer					
MAB-85	1	Insulating Bushing					
MAF-59	2	Field Coil Connector					
MAJ-29	4	Pole Piece					
MAJ-1007	1	Field Coil - U.L.					
MAJ-1008A	1	Field Coil & Brush Assy.- L.R.					
MAB-12	1	Brush					
MAJ-1009A	1	Field Coil & Brush Assy.- L.L.					
MAB-12	1	Brush					
MAJ-1010	1	Field Coil - U.R.					
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-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 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
MAJ-2006	1	Armature Assembly					
MAB-35	1	Brg. Thrust Spacer					
MU-54	2	Thrust Washer					
X-261	1	#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

EB-82	1	Bendix Drive Assembly					
MAB-1024	1	Head Band Assembly					
MAB-2040A	1	Intermediate Brg. Assy.					
MG-77A	1	Absorbent Bronze Brg.					
PS-1082	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

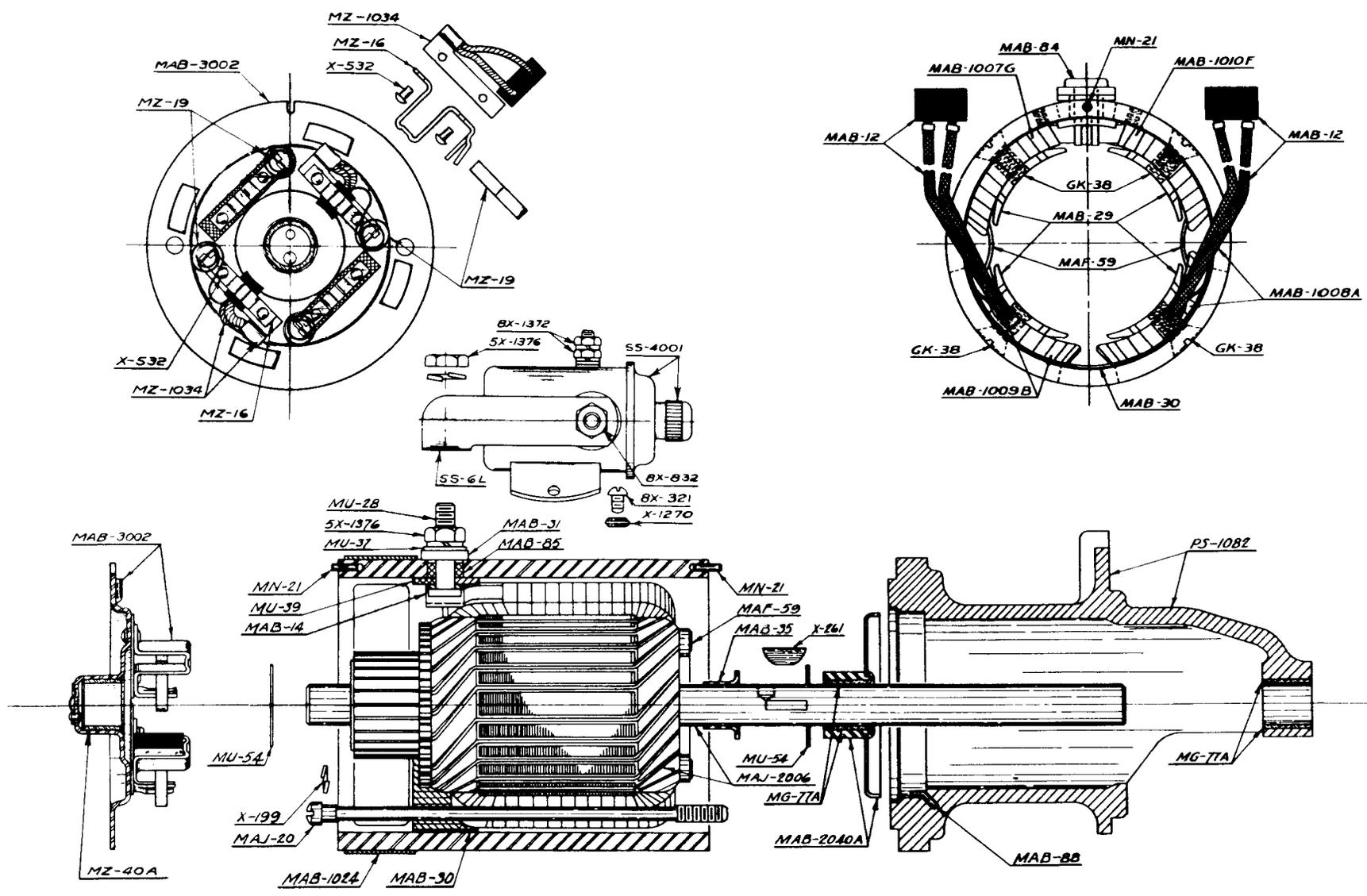
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"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking su -parts the complete part can be assembled as needed."

MAJ-4055 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAJ-4056 STARTING MOTOR PARTS LIST

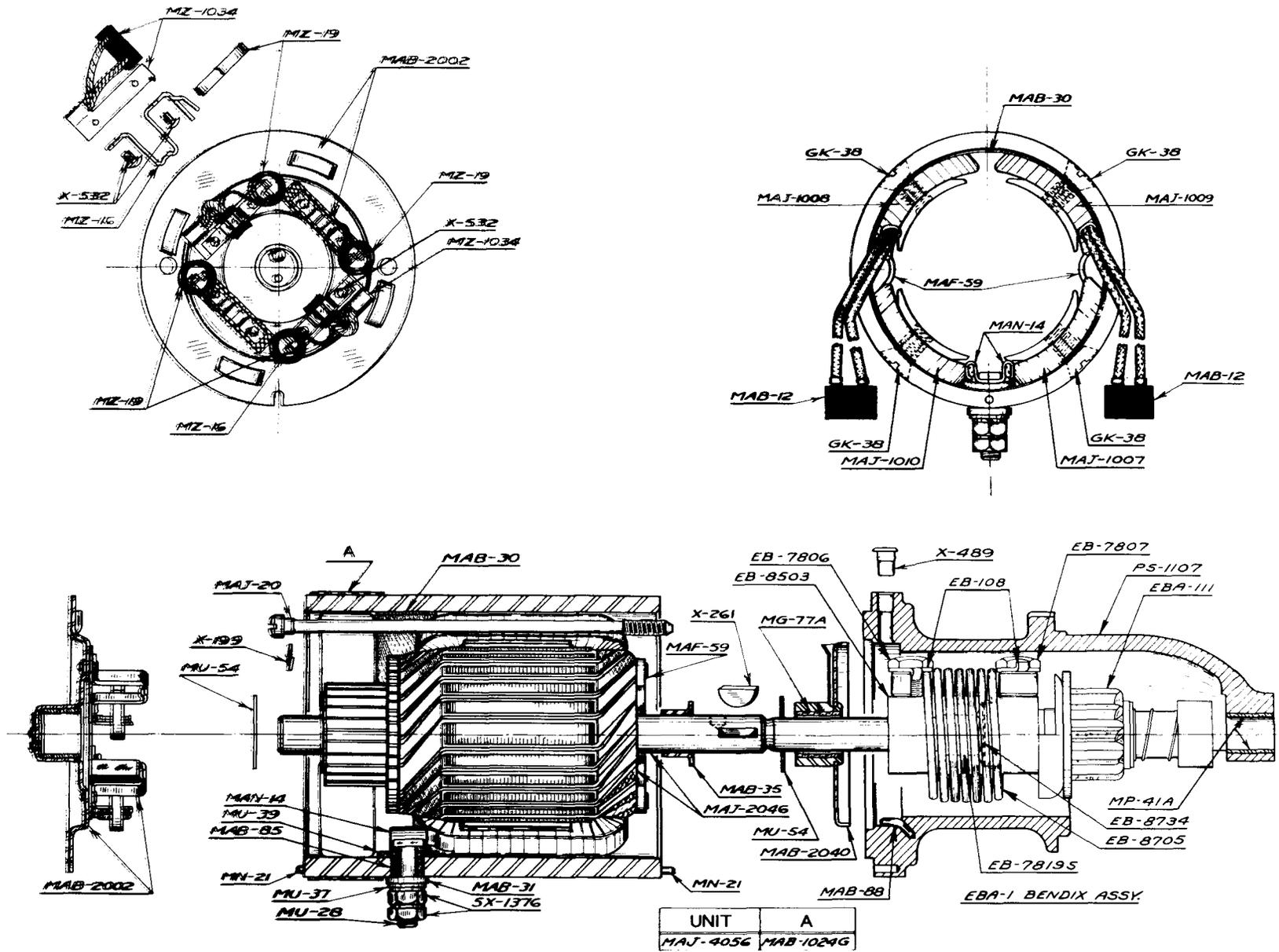
MAJ-4056

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
MAJ-20	2	Bolt, Thru					EBA-1	1	Bendix Drive Assy.				
(MAJ-2060)	1	Frame & Field Assy.					EB-108	2	Washer, Lock				
GK-38	4	Screw, Pole Shoe					EB-7806	1	Screw, Spring, Head				
MAB-12‡	2	Brush					EB-7807	1	Screw, Spring, Shaft				
MAB-30	1	Insulation, Field Connection					EB-7819S	1	Sleeve, Compression				
MAB-31	1	Washer, Ins., Term. Stud					EB-8503	1	Head, Drive				
MAB-85	1	Bushing, Ins., Term. Stud					EB-8705	1	Spring, Drive				
MAF-59	2	Connector, Field Coil					EB-8734	1	Ring, Take up				
MAJ-1007	1	Coil, Field, U.L.					EBA-111	1	Shaft & Pinion				
MAJ-1008	1	Coil, Field, L.R.					MAB-1024G	1	Band, Cover				
MAJ-1009	1	Coil, Field, L.L.					MAB-2040	1	Bearing Assy., Intermediate				
MAJ-1010	1	Coil, Field, U.R.					MG-77A	1	Bearing, Absorbent Bronze				
MAN-14	1	Terminal					PS-1107	1	Housing Assy., Pinion				
MN-21	2	Pin, Dowel					MAB-88	1	Pin, Dowel				
MU-28	1	Stud, Terminal					MP-41A	1	Bearing, Absorbent Bronze				
MU-37	1	Washer, Plain, Term. Stud, 5/16					X-489	1	Oiler, Hinge Top, Press in, 1/4				
MU-39	1	Washer, Ins., Term. Stud, Inner					X-715	1	Screw, Cover Band, Rd. hd., #10-32x1 1/4				
X-1014	1	Washer, Lock, Term. Stud, 5/16					8X-794	1	Nut, Cover Band, Square, #10-32				
5X-1376	1	Nut, Term. Stud, Hex., 5/16-24							1	2	3	4	5
X-199	2	Washer, Lock, Thru Bolt, 1/4							(Issued 3-6-44)				
X-1014	1	Washer, Lock, Term. Stud, 5/16											
5X-1376	1	Nut, Term. Stud, Hex., 5/16-24											
Comm. End Head Assembly With Parts Used With													
MAB-2002	1	Head Assy., Comm. End											
MZ-16	2	Holder, Brush											
MZ-19	4	Spring, Brush											
MZ-1034‡	2	Brush, Grounded											
X-532	4	Rivet, Oval hd., 1/8x1/4											
Armature Assembly & Parts Used With													
MAJ-2046	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							

‡ Brush Set, Service, MAB-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."

MAJ-4056 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAJ-4057 STARTING MOTOR PARTS LIST

MAJ-4057

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAJ-58	2					Frame Screw
(MAJ-2061)	1					Frame & Field Assy.
CK-32	4					Pole Piece Screw
MAB-14	1					Terminal
MAB-30	1					Field Connection Ins.
MAB-31	1					Insulating Washer
MAB-85	1					Insulating Bushing
MAF-59	2					Field Coil Connector
MAJ-29	4					Pole Piece
MAJ-1007	1					Field Coil - U.L.
MAJ-1008A	1					Field Coil & Brush Assy.- L.R.
MAB-12	1					Brush
MAJ-1009A	1					Field Coil & Brush Assy.- L.L.
MAB-12	1					Brush
MAJ-1010	1					Field Coil - U.R.
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
SX-1376	1					5/16-24 Hex. Nut
X-146	2					1/4-20 Hex. Nut
X-199	2					1/4 Lock Washer
X-489	1					1/4 Oiler - Press in Type
X-1014	1					5/16 Lock Washer
SX-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
MAJ-2062	1					Armature Assembly
MU-54	2					Thrust Washer - 1/32" Thick
X-261	1					#6 Woodruff Key

Miscellaneous Parts

EBA-5	1					Bendix Drive Assy.
MAB-1024	1					Head Band Assy.
MAB-1110A	1					Drive End Head Assy.
MAB-124	1					Absorbent Bronze Brg.
X-715	1					#10-32x1 1/4 Rd. Hd. Sc.
SX-794	1					#10-32 Square Nut
		1	2	3	4	5

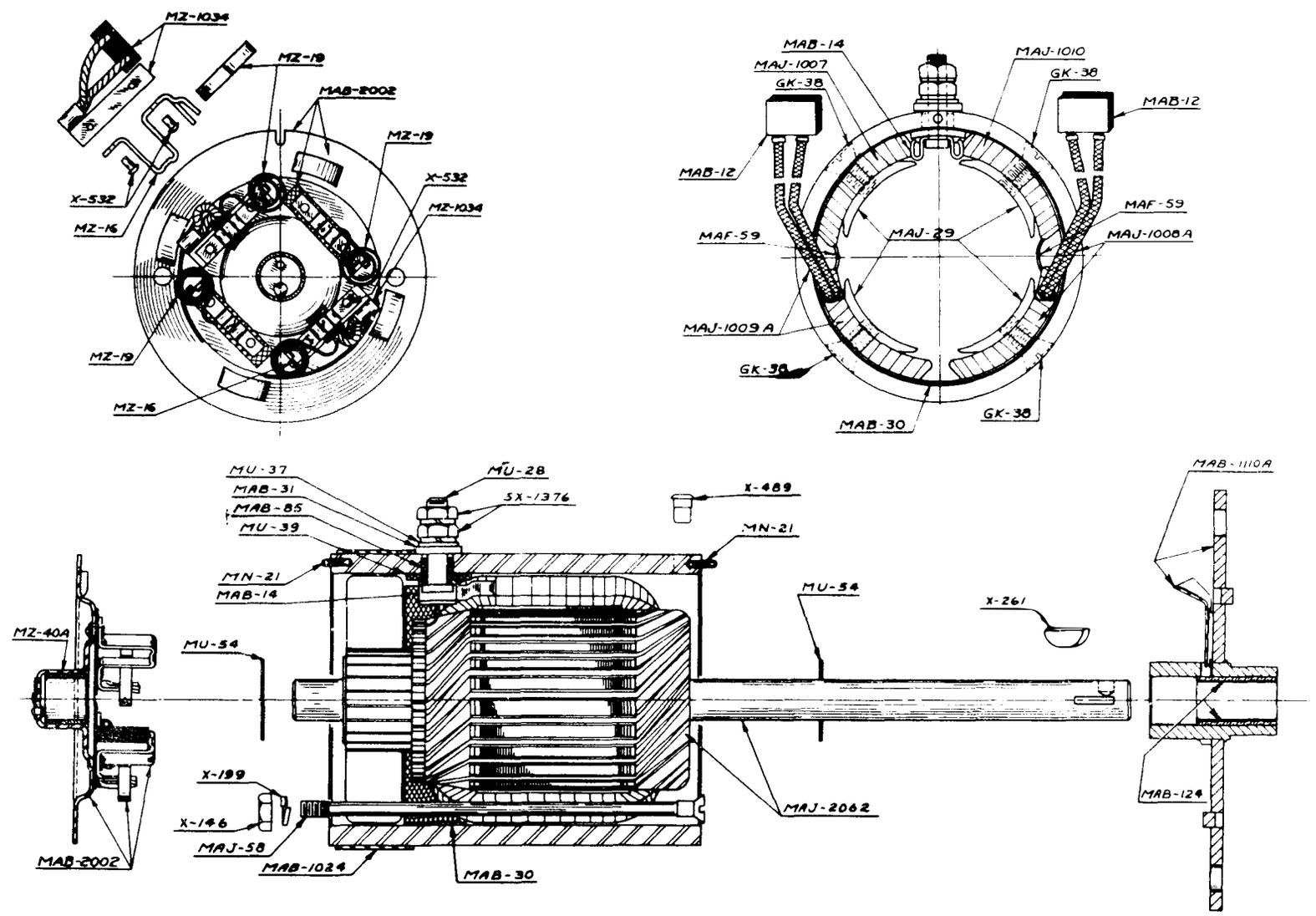
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MAJ-4057 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAJ-4057 STARTING MOTOR PARTS LIST

MAJ-4057

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAJ-58	2	Frame Screw					
(MAJ-2001)	1	Frame & Field Assy.					
CK-30	4	Pole Piece Screw					
MAB-14	1	Terminal					
MAB-30	1	Field Connection Ins.					
MAB-31	1	Insulating Washer					
MAB-85	1	Insulating Bushing					
MAF-59	2	Field Coil Connector					
MAJ-29	4	Pole Piece					
MAJ-1007	1	Field Coil - U.L.					
MAJ-1008A	1	Field Coil & Brush Assy.- L.R.					
MAB-12	1	Brush					
MAJ-1009A	1	Field Coil & Brush Assy.- L.L.					
MAB-12	1	Brush					
MAJ-1010	1	Field Coil - U.R.					
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-146	2	1/4-20 Hex. Nut					
X-199	2	1/4 Lock Washer					
X-489	1	1/4 Oiler - Press in Type					
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
MAJ-2062	1	Armature Assembly					
MU-54	2	Thrust Washer - 1/32" Thick					
X-261	1	#6 Woodruff Key					

Miscellaneous Parts

EBA-5	1	Bendix Drive Assy.					
MAB-1024	1	Head Band Assy.					
MAB-1110A	1	Drive End Head Assy.					
MAB-124	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

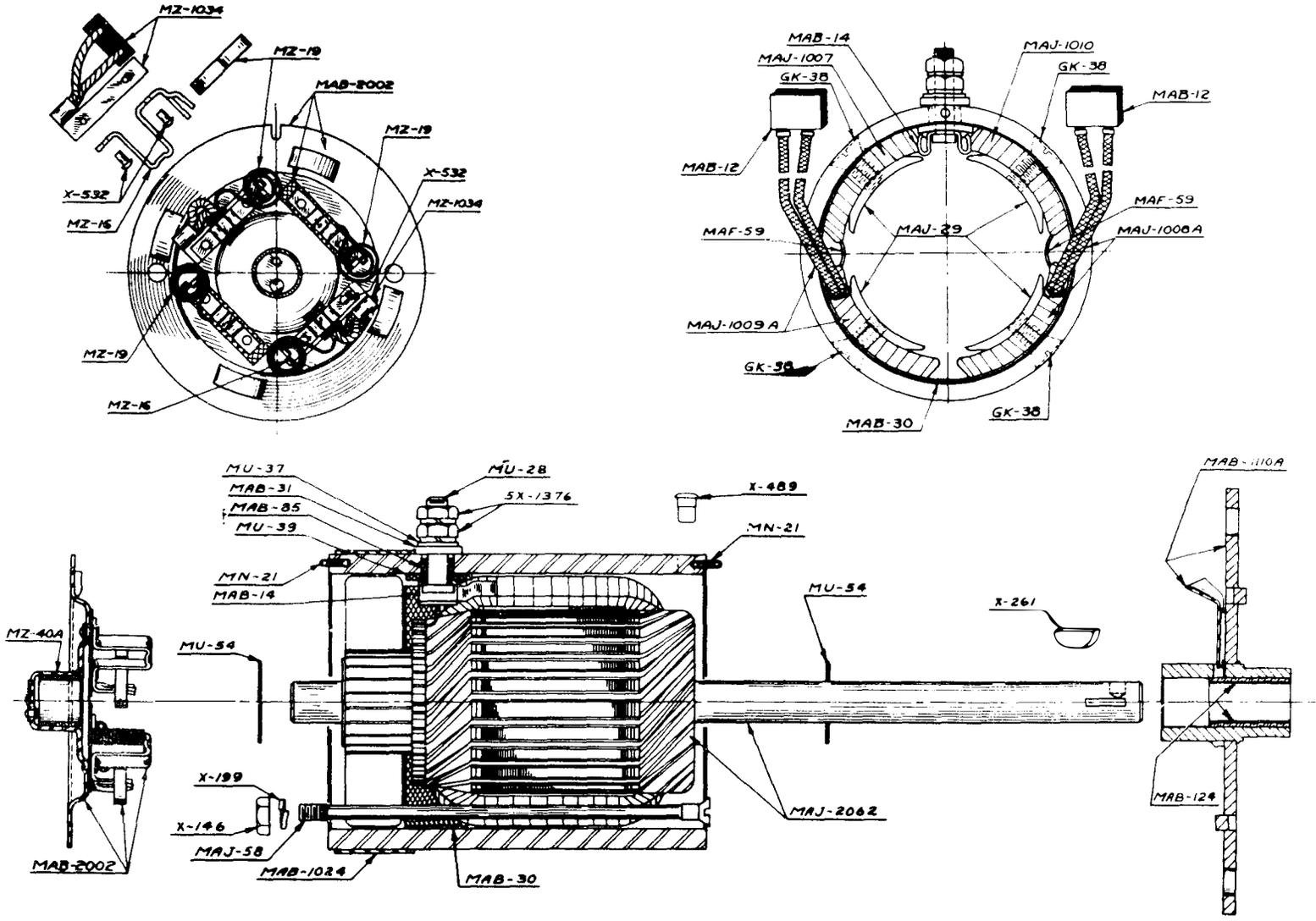
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MAJ-4057 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAJ-4058 STARTING MOTOR PARTS LIST

MAJ-4058

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

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAJ-20	2	Frame Screw				
(MAJ-2059)	1	Frame & Field Assembly				
GK-38	4	Pole Piece Screw				
MAB-30	1	Field Connection Ins.				
MAB-31	1	Insulating Washer				
MAB-85	1	Insulating Bushing				
MAF-59	2	Field Coil Connector				
MAJ-29	4	Pole Piece				
MAJ-1007	1	Field Coil - U.L.				
MAJ-1008A	1	Field Coil & Brush Assy.- L.R.				
MAB-12	1	BRUSH				
MAJ-1009A	1	Field Coil & Brush Assy.- L.L.				
MAB-12	1	BRUSH				
MAJ-1010	1	Field Coil - U.R.				
MAN-14	1	Terminal				
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 Hd. Tubular Rivet				

Armature Assembly & Parts Used With

MAJ-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

Switch Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
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

EB-82	1	BENDIX DRIVE ASSEMBLY				
EB-108	2	Lock Washer				
EB-7805	1	DRIVE SPRING				
EB-7806	1	Hd. Sp. Bolt or Screw				
EB-7807	1	Shaft Spring Screw				
EB-7819S	1	Compression Sleeve				
EB-8211	1	S-A Assembly				
EB-8503	1	Driving Head				
MAB-1024	1	Head Band Assembly				
MAB-2040	1	INTERMEDIATE BEARING ASSY.				
MG-77A	1	Absorbent Bronze Brg.				
PS-1020	1	Pinion Housing Assembly				
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

(Issued 8-22-39)

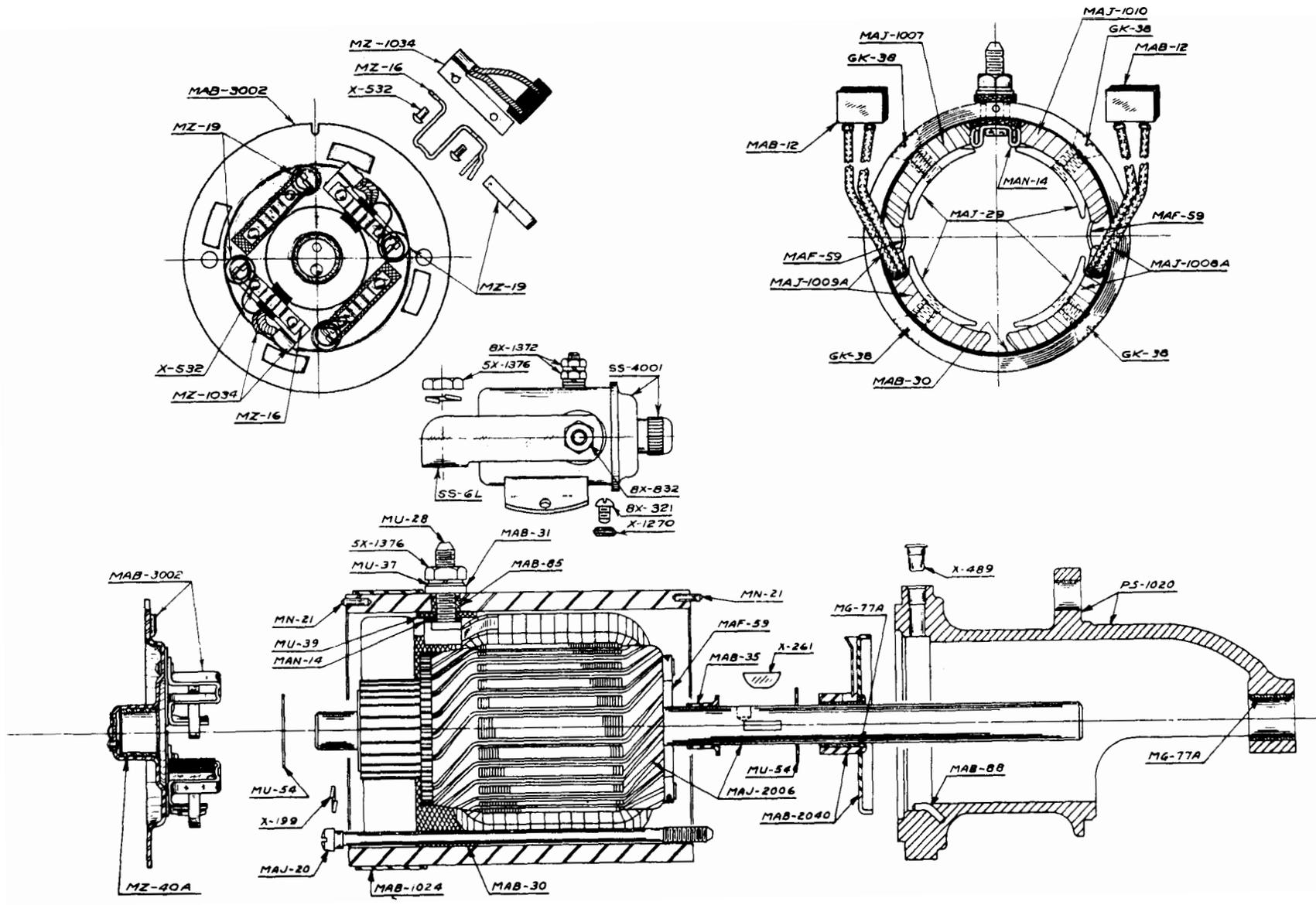
UNIT	APPLICATION
MAJ-4058	Gray Marine

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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."

MAJ-4058 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAJ-4061 STARTING MOTOR PARTS LIST

MAJ-4061

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

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAJ-58	2	Frame Screw					
(MAJ-2061)	1	Frame & Field Assy.					
GK-38	4	Pole Piece Screw					
MAB-30	1	Field Connection Ins.					
MAB-31	1	Insulating Washer					
MAB-85	1	Insulating Bushing					
MAF-59	2	Field Coil Connector					
MAJ-29	4	Pole Piece					
MAJ-1007	1	Field Coil - U.L.					
MAJ-1008A	1	Field Coil & Brush Assy.-L.R.					
MAB-12	1	BRUSH					
MAJ-1009A	1	Field Coil & Brush Assy.-L.L.					
MAB-12	1	BRUSH					
MAJ-1010	1	Field Coil - U.R.					
MAN-14	1	Terminal					
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-146	2	1/4-20 Hex. Nut					
X-199	2	1/4 Lock Washer					
X-489	1	1/4 Oiler-Press in Type					
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
MAJ-2062	1	ARMATURE ASSEMBLY					
MU-54	2	Thrust Washer-1/32" Thick					
X-261	1	#6 Woodruff Key					
<u>Miscellaneous Parts</u>							
EBA-29	1	BENDIX DRIVE ASSEMBLY					
EB-108	2	Lock Washer					
EB-8506	1	Hd. Spring Bolt or Screw					
EBA-513	1	Anti-Drift Spring					
EBA-525	1	Meshing Spring					
EBA-531	1	Screw Shaft Assembly					
EBA-532	1	Pinion Assembly					
EBA-533	*	Retaining Ring (Narrow Groove)					
EBA-1233	*	Retaining Ring (Wide Groove)					
EBA-2905	1	DRIVE SPRING					
EBA-2907	1	Shaft Spring Screw					
MAB-1024	1	Head Band Assembly					
MAB-1110A	1	Drive End Head Assembly					
MAB-124	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 3-29-40)

* Use as required.

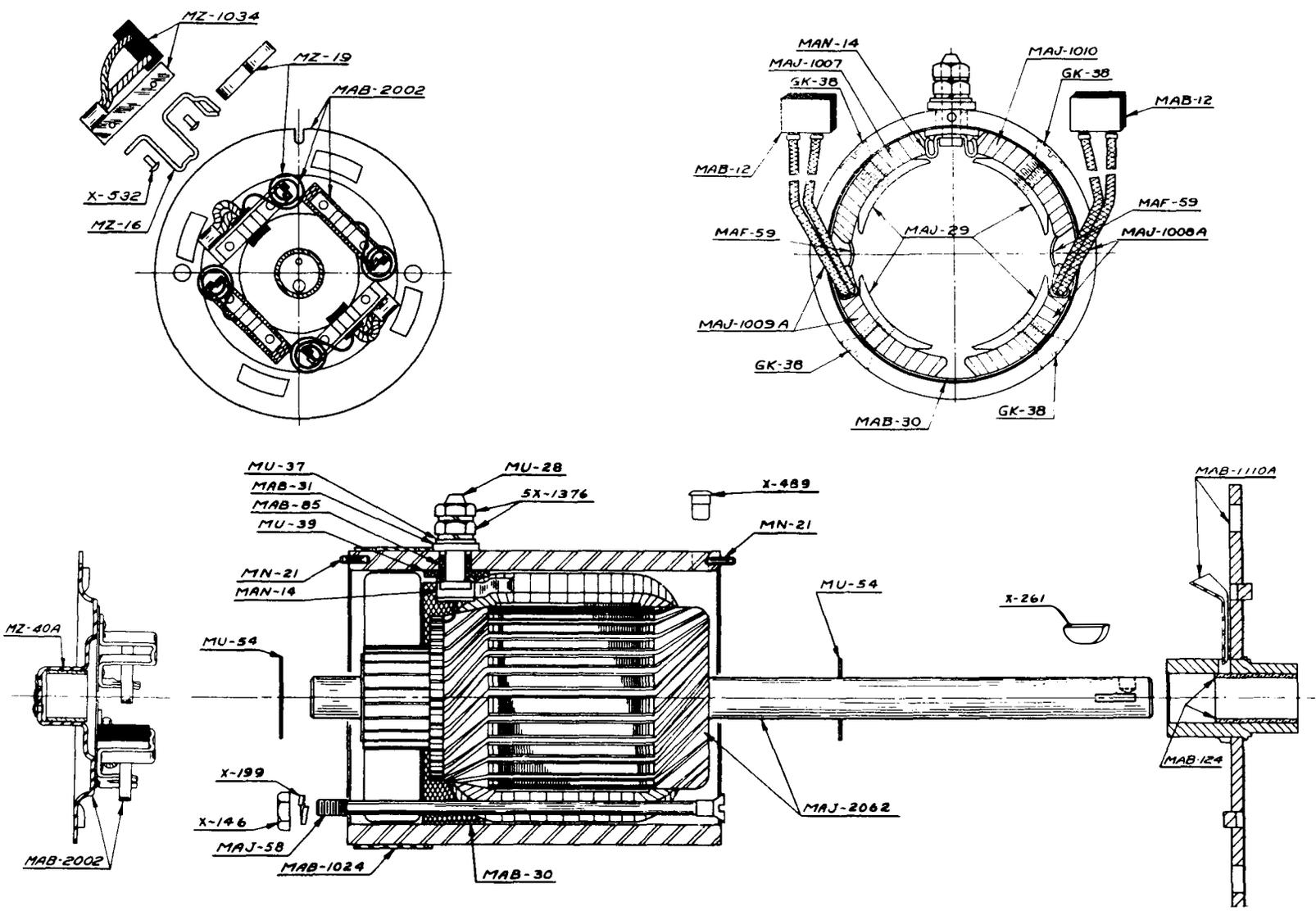
UNIT	APPLICATION
MAJ-4061	Hudson

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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."

MAJ-4061 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAJ-4062 STARTING MOTOR PARTS LIST

MAJ-4062

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

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAJ-20	2	Frame Screw				
(MAJ-2059)	1	Frame & Field Assembly				
GK-38	4	Pole Piece Screw				
MAB-30	1	Field Connection Ins.				
MAB-31	1	Insulating Washer				
MAB-85	1	Insulating Bushing				
MAF-59	2	Field Coil Connector				
MAJ-29	4	Pole Piece				
MAJ-1007	1	Field Coil - U.L.				
MAJ-1008A	1	Field Coil & Brush Assy. - L.R.				
MAB-12	1	BRUSH				
MAJ-1G09A	1	Field Coil & Brush Assy. - L.L.				
MAB-12	1	BRUSH				
MAJ-1010	1	Field Coil - U.R.				
MAN-14	1	Terminal				
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				

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 Hd. Tubular Rivet				

Armature Assembly & Parts Used With

MAJ-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

Switch Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
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-1014	1	5/16 Lock Washer				
X-1270	2	#10 Skpf. Washer				
5X-1376	1	5/16-24 Hex. Nut				

Miscellaneous Parts

EBA-27	1	BENDIX DRIVE ASSEMBLY				
EB-108	2	Lock Washer				
EB-7806	1	Hd. Sp. Bolt or Screw				
EB-7807	1	Shaft Spring Screw				
EB-7919S	1	Compression Sleeve				
EB-8503	1	Driving Head				
EB-8705	1	DRIVE SPRING				
EB-8734	1	Take-Up Spring				
EBA-2711	1	S-A Assembly				
MAB-1024	1	Head Band Assembly				
MAB-2040A	1	INTERMEDIATE BRG. ASSY.				
MG-77A	1	Absorbent Bronze Brg.				
PS-1102	1	Pinion Housing Assembly				
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 4-3-40)

UNIT	APPLICATION
MAJ-4062	Checker Cab

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAJ-4063 STARTING MOTOR PARTS LIST

MAJ-4063

Frame & Field Assembly With Terminal Stud & Parts Used With

Part No.	No. Used	Name of Part
MAJ-20	2	Bolt, Thru
(MAJ-2001)	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAB-12 †	2	Brush
MAB-30	1	Insulation, Field Connection
MAB-31	1	Washer, Ins., Term. Stud, Outer
MAB-85	1	Bushing, Ins., Term. Stud
MAJ-3005S	1	Field Coil Package
MAF-59	2	Connecter, Field Coil
MAJ-1007	1	Coil, Field, U.L.
MAJ-1008	1	Coil, Field, L.R.
MAJ-1009	1	Coil, Field, L.L.
MAJ-1010	1	Coil, Field, U.R.
MAN-14	1	Terminal
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
X-1014	2	Lockwasher, Term. Stud, 5/16
8X-1376	2	Nut, Term. Stud, Hex, 5/16-24
X-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

Part No.	No. Used	Name of Part
MAJ-2006	1	Armature Assembly
MAB-35	1	Spacer, Bearing Thrust
MU-54	2	Washer, Thrust
X-261	1	Key, Woodruff, #6

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-1024E	1	Band, Cover
MAB-2040	1	Bearing Assy., Intermediate
MG-77A	1	Bearing, Abs. Bronze
PS-1219	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-2012AS.

UNIT	APPLICATION
MAJ-4063	Buda

(Issued 7-14-48)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAK-4001 STARTING MOTOR PARTS LIST

MAK-4001

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAK-20	2	Frame Screw					
(MAK-2001)	1	Frame & Field Assy.					
MAK-28	1	Terminal Post					
MAK-29	4	Pole Piece					
MAK-30	1	Insulation					
MAK-44	2	Field Coil Connector					
MAK-49	2	Insulating Washer					
MAK-50	1	Plain Washer					
MAK-51	1	Ins. Bushing					
MAK-1007	1	Field Coil - U.R.					
MAK-1008S	1	Field Coil & Brush Assy. - L.R.					
MAK-12	1	Brush					
MAK-1009S	1	Field Coil & Brush Assy. - L.L.					
MAK-12	1	Brush					
MAK-1010	1	Field Coil - U.L.					
MZ-38	4	Pole Piece Screw					
5X-146	1	1/4-20 Hex. Nut					
λ-199	1	1/4 Lock Washer					
5X-146	1	1/4-20 Hex. Nut					
8X-173	2	#10-32 Hex. Nut					
X-196	2	#10 Lock Washer					
X-199	1	1/4 Lock Washer					

Comm. End Plate Assembly & Parts Used With

MAK-2002	1	Comm. End Plate Assy.					
MAK-16	2	Brush Holder					
MAK-19	4	Brush Spring					
MAK-40	1	Absorbent Bronze Brg.					
MAK-59	1	Felt Pad					
MAK-1034	2	Brush - Grounded					
X-521	4	9/32 Tubular Rivet					
			1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAK-54	1	Thrust Washer					
MAK-55	1	Thrust Washer					
MAK-2006	1	Armature Assembly					

Miscellaneous Parts

EB-68	1	Bendix Drive Assy.					
GAS-1024	1	Head Band Assy.					
MAK-1048	1	Drive End Head Assy.					
MAK-39	1	Absorbent Bronze Brg.					
X-386	1	Ball Oiler - 1/4 Press in					
X-715	1	#10-32x1 1/4 Rd. Hd. Sc.					
8X-794	1	#10-32 Square Nut					
			1	2	3	4	5

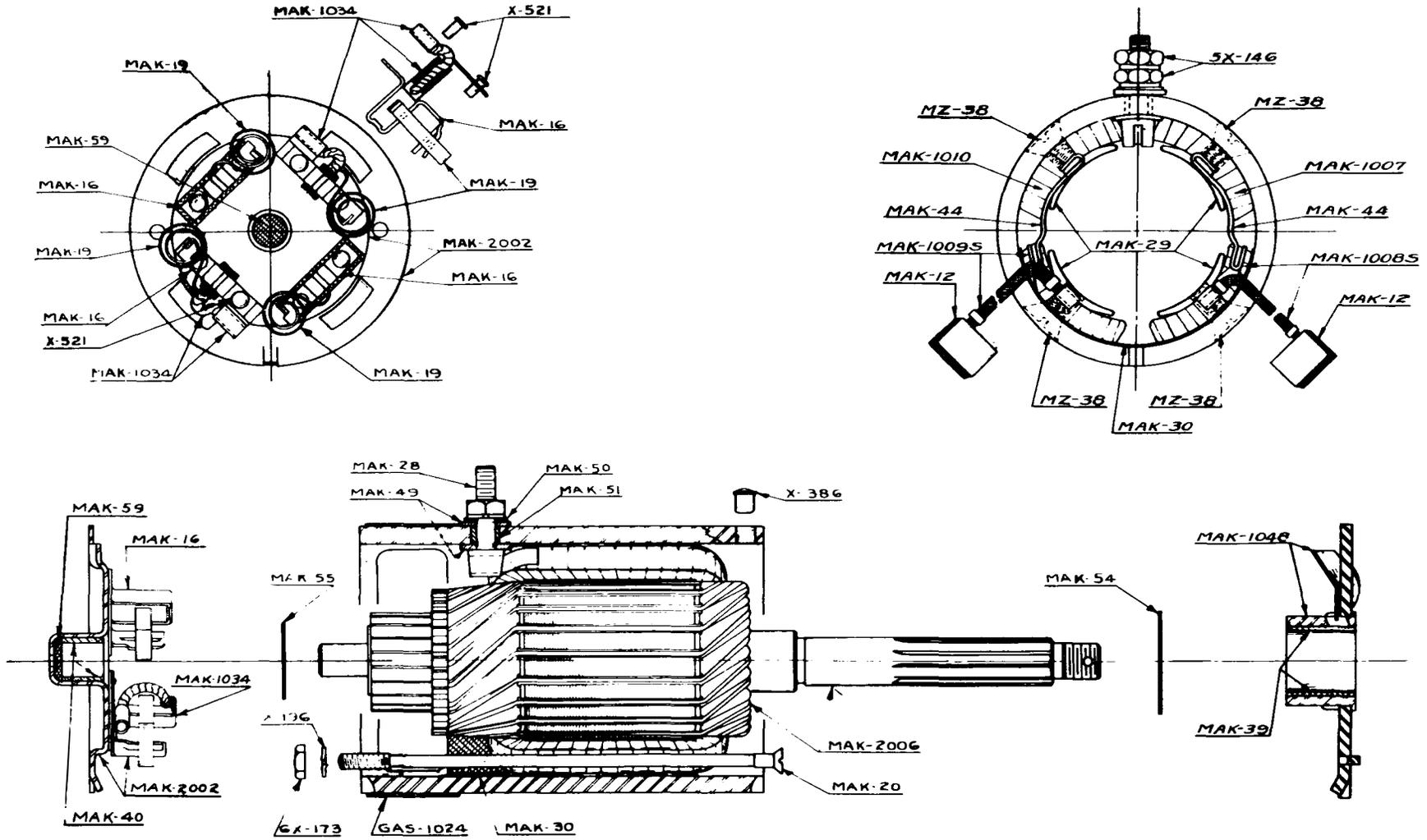
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MAK-4001 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAK-4003 STARTING MOTOR PARTS LIST

MAK-4003

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAK-73	2	Frame Screw					
(MAK-2001)	1	Frame & Field Assy.					
MAK-28	1	Terminal Post					
MAK-29	4	Pole Piece					
MAK-30	1	Insulation					
MAK-44	2	Field Coil Connector					
MAK-49	2	Ins. Washer					
MAK-50	1	Plain Washer					
MAK-51	1	Ins. Bushing					
MAK-1007	1	Field Coil-U.R.					
MAK-1008S	1	Field Coil & Brush Assy.-L.R.					
MAK-12	1	Brush					
MAK-1009S	1	Field Coil & Brush Assy.-L.I.					
MAK-12	1	Brush					
MAK-1010	1	Field Coil-U.L.					
MZ-38	4	Pole Piece Screw					
5X-146	1	1/4-20 Hex. Nut					
X-199	1	1/4 Lock Washer					
5X-146	1	1/4-20 Hex. Nut					
6X-173	2	#10-32 Hex. Nut					
X-196	2	#10 Lock Washer					
X-199	1	1/4 Lock Washer					
X-386	1	Ball Oiler - 1/4 Press in					

Comm. End Plate Assembly & Parts Used With

MAK-2002	1	Comm. End Plate Assy.					
MAK-16	2	Brush Holder					
MAK-19	4	Brush Spring					
MAK-40	1	Absorbent Bronze Brg.					
MAK-59	1	Felt Pad					
MAK-1034	2	Brush - Grounded					
X-1442	4	1/8x1/4 Tubular Rivet					
			1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAK-54	1	Thrust Washer					
MAK-55	1	Thrust Washer					
MAK-2072	1	Armature Assembly					
X-260	1	#5 Woodruff Key					

Drive End Head Assembly & Parts Used With

MAK-1048	1	Drive End Head Assy.					
MAK-39	1	Absorbent Bronze Brg.					

Miscellaneous Parts

GAS-1024	1	Head Band Assembly					
6X-1010A	1	#8-32x1 1/4 Rd. Hd. Screw-Hardened					
6X-1410	1	#8-32 Square Nut					
			1	2	3	4	5

(Issued 5-18-31)
(R-5-7-36)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAK-4008 STARTING MOTOR PARTS LIST

MAK-4008
(Issued 2-4-54)

Frame & Field Assembly & Parts Used With			Miscellaneous Parts		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MAK-20	2	Bolt, Thru	EBA-10	1	BENDIX DRIVE ASSY.
MAK-2001	1	Frame & Field Assy.	EB-6504S	1	Pinion
MAK-12†	2	Brush	EB-6505	1	SPRING, DRIVE
MAK-28	1	Stud, Terminal	EB-6511	1	Spring, Anti-Drift
MAK-30	1	Insulation, Field Connection	EB-6823	2	Washer, Thrust
MAK-49	2	Washer, Ins. , Term. Stud	EB-6824	1	Support, Drive Spring
MAK-51	1	Bushing, Ins. , Term. Stud	EB-6825	1	Spring, Meshing
MAK-3005S	1	FIELD COIL PACKAGE	EB-6826	1	Sleeve, Anti-Drift Spring
MAK-44	2	Connector, Field Coil	EB-6827	1	Washer, Pinion
MAK-1007	1	Coil, Field, U. R.	EB-6828	1	Nut, Castellated
MAK-1008	1	Coil, Field, L. R.	EB-7101	1	Shaft
MAK-1009	1	Coil, Field, L. L.	EB-7902	1	Stop, Drive
MAK-1010	1	Coil, Field, U. L.	X-528	1	Pin, Cotter
MZ-38A	4	Screw, Pole Shoe	GAS-1024F	1	Band, Cover
SSA-43	2	Washer, Plain, Term. Stud	MAK-1048	1	Head Assy. , Drive End
8X-146	2	Nut, Term. Stud, Hex. 1/4-20	MAK-39	1	BEARING, ABS. BRONZE
12X-199	2	Lockwasher, Term. Stud, 1/4	X-386	1	Oiler
8X-173	2	Nut, Thru Bolt, Hex. #10-32	X-404	1	Pin, Cotter
12X-196	2	Lockwasher, Thru Bolt, #10	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
			8X-794	1	Nut, Cover Band, Square #10-32
<u>Comm. End Head Assembly & Parts Used With</u>					
MAK-3002	1	Head Assy. , Comm. End	† BRUSH SET, SERVICE MAK-2012AS.		
MAK-19	4	Spring, Brush			
MAK-59	1	Felt			
MAK-1034S†	2	Brush, Grounded			
<u>Armature Assembly & Parts Used With</u>					
MAK-54	1	Washer, Thrust, Arm. Shaft, D. E.			
MAK-55	1	Washer, Thrust, Arm. Shaft, C. E.			
MAK-2006	1	ARMATURE			

UNIT	APPLICATION
MAK-4008	Wisconsin

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAK-4009 STARTING MOTOR PARTS LIST

MAK-4009

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAK-20	2					
(MAK-2001)	1					
MAK-28	1					
MAK-29	4					
MAK-30	1					
MAK-44	2					
MAK-49	2					
MAK-50	1					
MAK-51	1					
MAK-1007	1					
MAK-1008S	1					
MAK-12	1					
MAK-1009S	1					
MAK-12	1					
MAK-1010	1					
MZ-38	4					
5X-146	1					
X-199	1					
5X-146	1					
6X-173	2					
X-196	2					
X-199	1					
X-386	1					

Comm. End Plate Assembly & Parts Used With

MAK-3002	1	Comm. End Plate Assy.
MAK-16A	4	Brush Holder
MAK-19	4	Brush Spring
MAK-40	1	Absorbent Bronze Brg.
MAK-59	1	Felt Pad
MAK-1034	2	Brush - Grounded
X-1442	4	1/8x1/4 Tubular Rivet
	1	2 3 4 5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAK-54	1					
MAK-55	1					
MAK-2006	1					
<u>Miscellaneous Parts</u>						
EB-91	1					
GAS-1024	1					
MAK-1048	1					
MAK-39	1					
6X-1010A	1					
6X-1410	1					

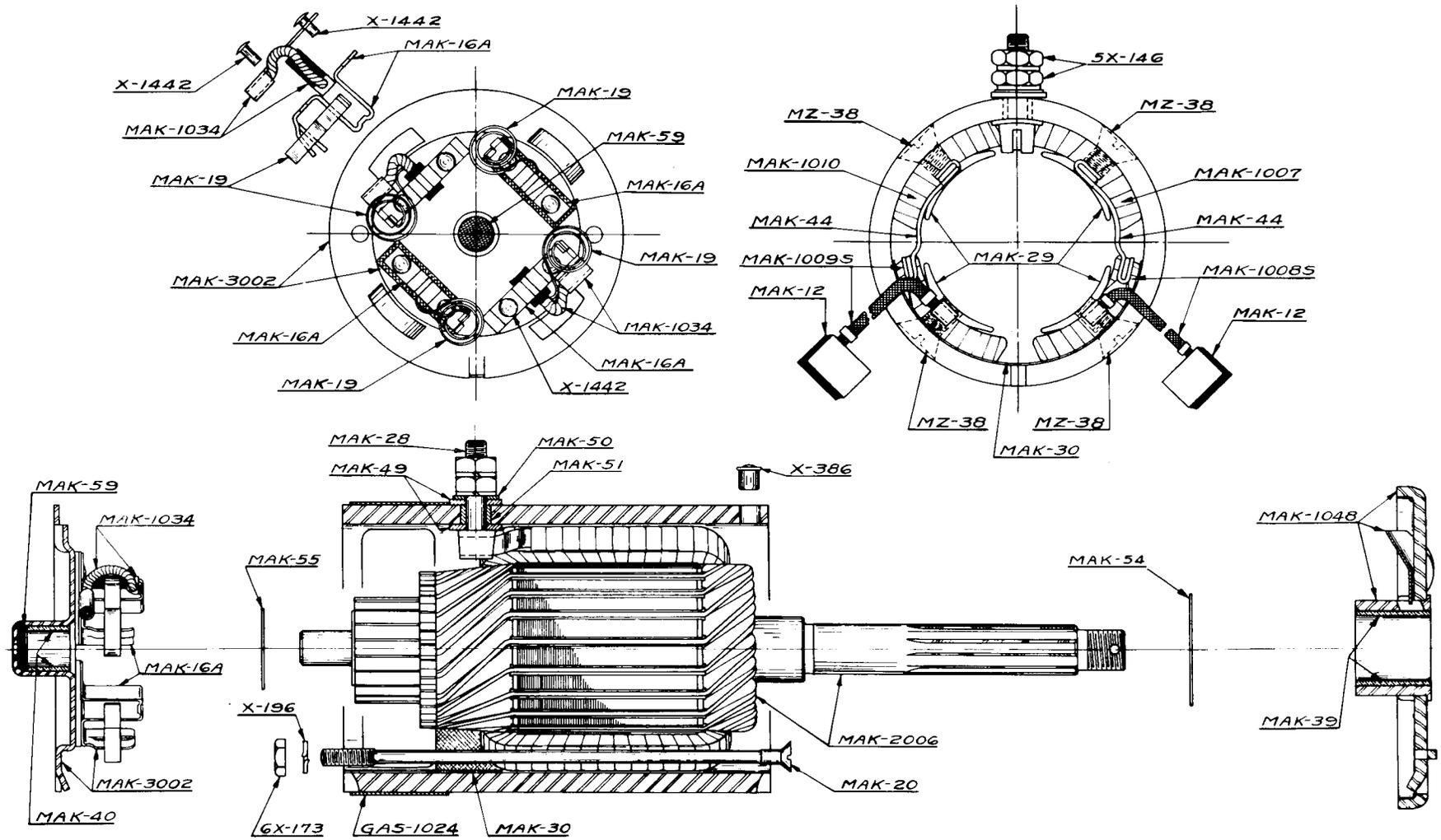
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(R-7-15-36)

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MAK-4009 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAK-4011 STARTING MOTOR PARTS LIST

MAK-4011

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAK-20	2	Frame Screw					
(MAK-2086)	1	Frame & Field Assy.					
MAK-28	1	Terminal Post					
MAK-29	4	Pole Piece					
MAK-30	1	Insulation					
MAK-44	2	Field Coil Connector					
MAK-49	2	Insulating Washer					
MAK-50	1	Plain Washer					
MAK-51	1	Insulating Bushing					
MAK-1007	1	Field Coil - U.R.					
MAK-1008S	1	Field Coil & Brush Assy.- L.R.					
MAK-12	1	Brush					
MAK-1009S	1	Field Coil & Brush Assy.- L.L.					
MAK-12	1	Brush					
MAK-1010	1	Field Coil - U.L.					
MZ-38	4	Pole Piece Screw					
5X-146	1	1/4-20 Hex. Nut					
X-199	1	1/4 Lock Washer					
5X-146	1	1/4-20 Hex. Nut					
6X-173	2	#10-32 Hex. Nut					
X-196	2	#10 Lock Washer					
X-199	1	1/4 Lock Washer					
X-386	1	Ball Oiler - 1/4 Press in					

Comm. End Plate Assembly & Parts Used With

MAK-2002	1	Comm. End Plate Assy.					
MAK-16	2	Brush Holder					
MAK-19	4	Brush Spring					
MAK-40	1	Absorbent Bronze Brg.					
MAK-59	1	Felt Pad					
MAK-1034	2	Brush - Grounded					
X-1442	4	1/8x1/4 Tubular Rivet					
			1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAK-54	1	Thrust Washer					
MAK-55	1	Thrust Washer					
MAK-2006	1	Armature Assembly					
<u>Miscellaneous Parts</u>							
EBA-13	1	Bendix Drive Assy.					
GAS-1024	1	Head Band Assembly					
MAK-1048	1	Drive End Head Assy.					
MAK-39	1	Absorbent Bronze Brg.					
X-715	1	#10-32x1 1/4 Rd. Hd. Screw					
6X-794	1	#10-32 Square Nut					

Switch Assembly & Parts Used With

SS-103A	1	Connector					
SS-4002	1	Solenoid Starting Switch					
X-196	1	#10 Lock Washer					
6X-832	2	5/16-24 Hex. Nut					
X-1014	2	5/16 Lock Washer					
6X-1372	1	#10-32 Hex. Nut					
6X-321	2	#10-32x5/16 Rd. Hd. Screw					
X-1274	2	#10 Skpf. Washer					
			1	2	3	4	5

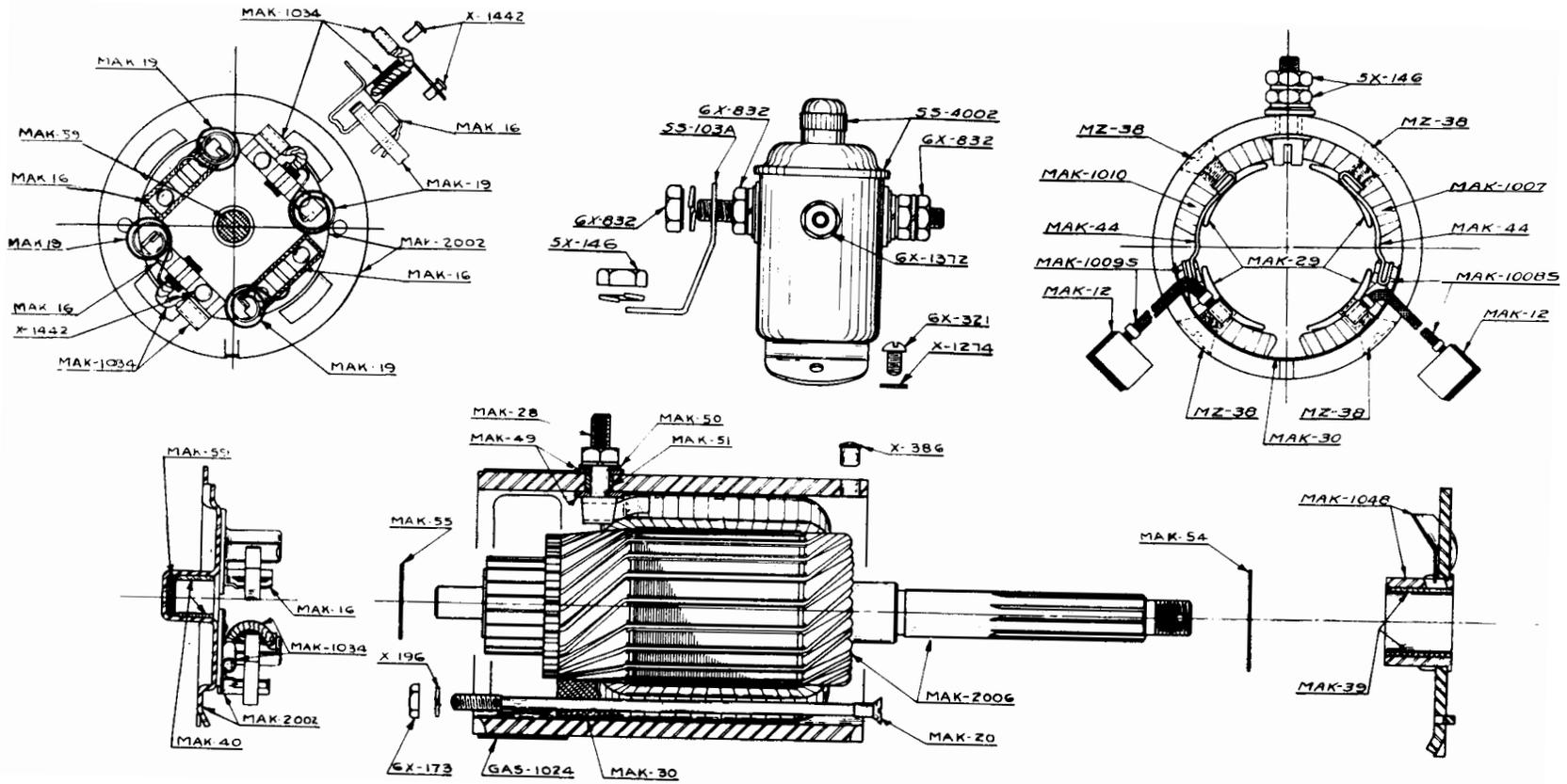
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(R-8-6-36)

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MAK-4011 STARTING MOTOR PARTS LIST



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAK-4012 STARTING MOTOR PARTS LIST

MAK-4012

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

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAK-20	2					Frame Screw
(MAK-2086)	1					Frame & Field Assembly
MAK-28	1					Terminal Post
MAK-29	4					Pole Piece
MAK-30	1					Insulation
MAK-44	2					Field Coil Connector
MAK-49	2					Insulating Washer
MAK-50	1					Plain Washer
MAK-51	1					Insulating Bushing
MAK-1007	1					Field Coil - U.R.
MAK-1008S	1					Field Coil & Brush Assy.- L.R.
MAK-12	1					BRUSH
MAK-1009S	1					Field Coil & Brush Assy.- L.L.
MAK-12	1					BRUSH
MAK-1010	1					Field Coil - U.L.
MZ-38	4					Pole Piece Screw
5X-146	1					1/4-20 Hex. Nut
X-199	1					1/4 Lock Washer
8X-173	2					#10-32 Hex. Nut
X-196	3					#10 Lock Washer
X-386	1					Ball Oiler - 1/4 Press in

Comm. End Plate Assy. & Parts Used With

MAK-3002	1	Comm. End Plate Assembly
MAK-16A	2	Brush Holder
MAK-19	4	Brush Spring
MAK-40	1	Absorbent Bronze Brg.
MAK-59	1	Felt Pad
MAK-1034	2	BRUSH - Grounded
X-521	4	9/32 Tubular Rivet

Armature Assembly & Parts Used With

MAK-54	1	Thrust Washer
MAK-55	1	Thrust Washer
MAK-2006	1	ARMATURE ASSEMBLY
		1 2 3 4 5

Starting Switch Assy. & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
SS-103A	1					Connector
SS-4002	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-10	1	BENDIX DRIVE ASSEMBLY
EB-6504S	1	Pinion
EB-6505	1	DRIVE SPRING
EB-6513	1	Anti-Drift Spring
EB-6823	2	Thrust Washer
EB-6824	1	Drive Spring Support
EB-6825	1	Meshing Spring
EB-6826	1	Anti-Drift Sp. Sleeve
EB-6827	1	Pinion Washer
EB-6828	1	Castellated Nut
EB-7101	1	Shaft
EB-7902	1	Drive Stop
GAS-1024	1	Head Band Assembly
MAK-1048	1	Drive End Head Assembly
MAK-39	1	ABSORBENT BRONZE BRG.
5X-146	1	1/4-20 Hex. Nut
X-199	1	1/4 Lock Washer
X-714	1	#10-32x1 1/2 Rd. Hd. Sc.
8X-794	1	#10-32 Square Nut
		1 2 3 4 5

(Issued 7-31-40)

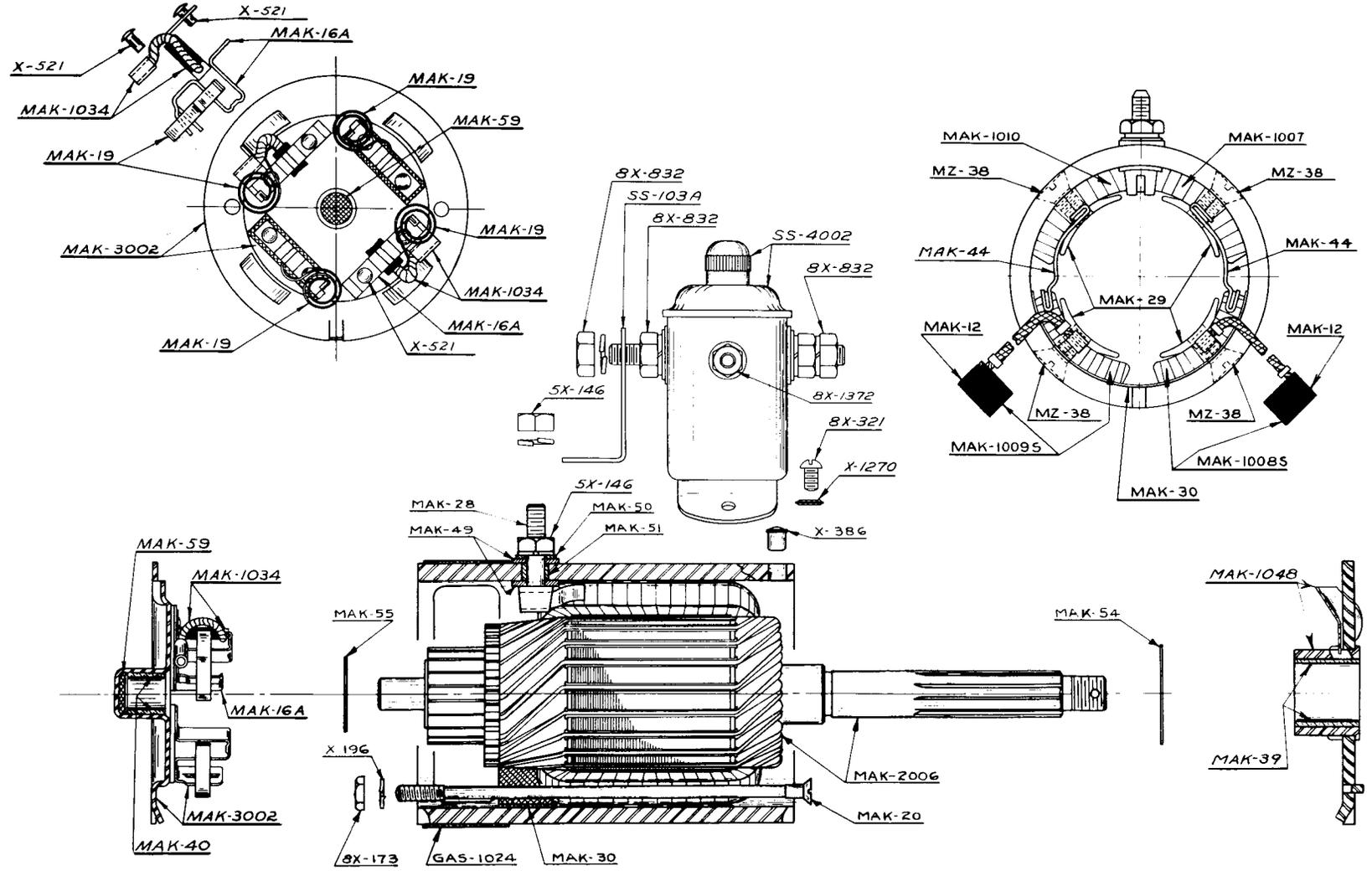
UNIT	APPLICATION
MAK-4012	Gray Marine

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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."

MAK-4012 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAK-4013 STARTING MOTOR PARTS LIST

MAK-4013

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAK-79	2	Frame Screw					
(MAK-2084)	1	Frame & Field Assy.					
MAK-28	1	Terminal Post					
MAK-29	4	Pole Piece					
MAK-30	1	Insulation					
MAK-44	2	Field Coil Connector					
MAK-49	2	Insulating Washer					
MAK-50	1	Plain Washer					
MAK-51	1	Insulating Bushing					
MAK-1007	1	Field Coil - U.R.					
MAK-1008S	1	Field Coil & Brush Assy.- L.R.					
MAK-12	1	Brush					
MAK-1009S	1	Field Coil & Brush Assy.- L.L.					
MAK-12	1	Brush					
MAK-1010	1	Field Coil - U.L.					
MZ-38	4	Pole Piece Screw					
5X-146	1	1/4-20 Hex. Nut					
X-199	1	1/4 Lock Washer					
5X-146	1	1/4-20 Hex. Nut					
X-196	2	#10 Lock Washer					
X-199	1	1/4 Lock Washer					

Comm. End Plate Assembly & Parts Used With

MAK-3002	1	Comm. End Plate Assy.					
MAK-16A	2	Brush Holder					
MAK-19	4	Brush Spring					
MAK-40	1	Absorbent Bronze Brg.					
MAK-59	1	Felt Pad					
MAK-1034	2	Brush - Grounded					
X-521	4	9/32 Tubular Rivet					
			1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAK-55	1	Thrust Washer					
MAK-2088	1	Armature Assembly					
MU-54	1	Thrust Washer - 1/32" Thick					
X-261	1	#6 Woodruff Key					

Miscellaneous Parts

EB-56	1	Bendix Drive Assy.					
GAS-1024	1	Head Band Assembly					
MAK-2092	1	Intermediate Brg. Assy.					
MZ-44A	1	Absorbent Bronze Brg.					
PS-1097	1	Pinion Housing Assy.					
GBF-95	1	Dowel Pin					
MAB-88	1	Dowel Pin					
MP-41A	1	Absorbent Bronze Brg.					
X-714	1	#10-32x1 1/2 Rd. Hd. Sc.					
8X-794	1	#10-32 Square Nut					
			1	2	3	4	5

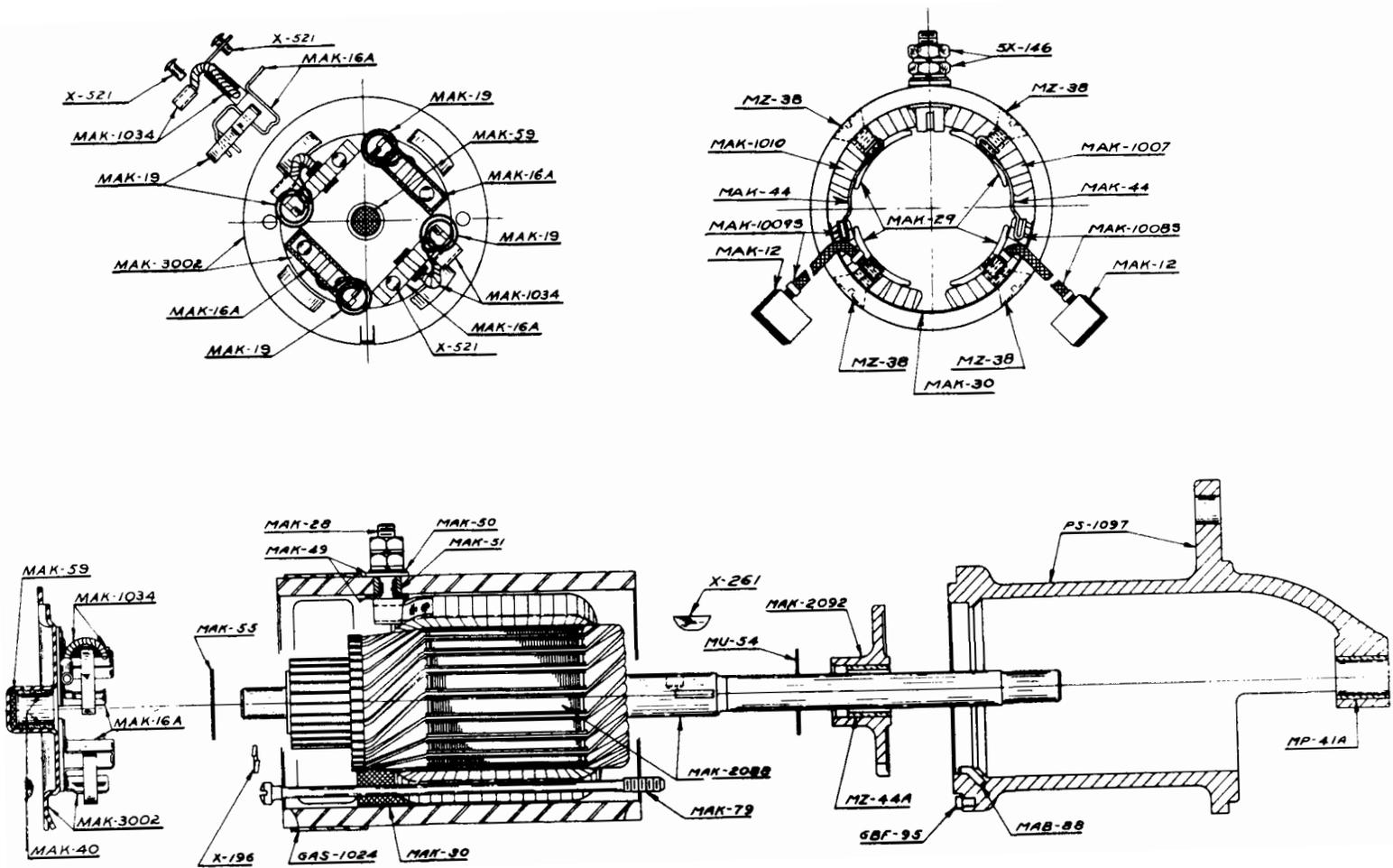
(Issued 8/12/38)

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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."

MAK-4013 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAK-4014 STARTING MOTOR PARTS LIST

MAK-4014

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAK-20	2	Frame Screw					
(MAK-2089)	1	Frame & Field Assy.					
MAK-28	1	Terminal Post					
MAK-29	4	Pole Piece					
MAK-30	1	Insulation					
MAK-44	2	Field Coil Connector					
MAK-49	2	Ins. Washer					
MAK-50	1	Plain Washer					
MAK-51	1	Ins. Bushing					
MAK-1007	1	Field Coil - U.R.					
MAK-1008S	1	Field Coil & Brush Assy. - L.R.					
MAK-12	1	Brush					
MAK-1009S	1	Field Coil & Brush Assy. - L.L.					
MAK-12	1	Brush					
MAK-1010	1	Field Coil - U.L.					
MZ-38	4	Pole Piece Screw					
5X-146	1	1/4-20 Hex. Nut					
X-199	1	1/4 Lock Washer					
5X-146	1	1/4-20 Hex. Nut					
8X-173	2	#10-32 Hex. Nut					
X-196	2	#10 Lock Washer					
X-199	1	1/4 Lock Washer					
X-386	1	Ball Oiler - 1/4 Press in					

Comm. End Plate Assembly & Parts Used With

MAK-2002	1	Comm. End Plate Assy.					
MAK-16	2	Brush Holder					
MAK-19	4	Brush Spring					
MAK-40	1	Absorbent Bronze Brg.					
MAK-59	1	Felt Pad					
MAK-1034	2	Brush - Grounded					
X-521	4	9/32 Tubular Rivet					
	1		2	3	4	5	

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAK-54	1	Thrust Washer					
MAK-55	1	Thrust Washer					
MAK-2006	1	Armature Assembly					

Switch Assembly & Parts Used With

SS-121R	1	Connector					
SS-4001	1	Solenoid Starting Switch					
12X-196	1	#10 Lock Washer					
9X-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-13	1	Bendix Drive Assy.					
GAS-1024	1	Head Band Assy.					
MAK-1048	1	Drive End Head Assy.					
MAK-39	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

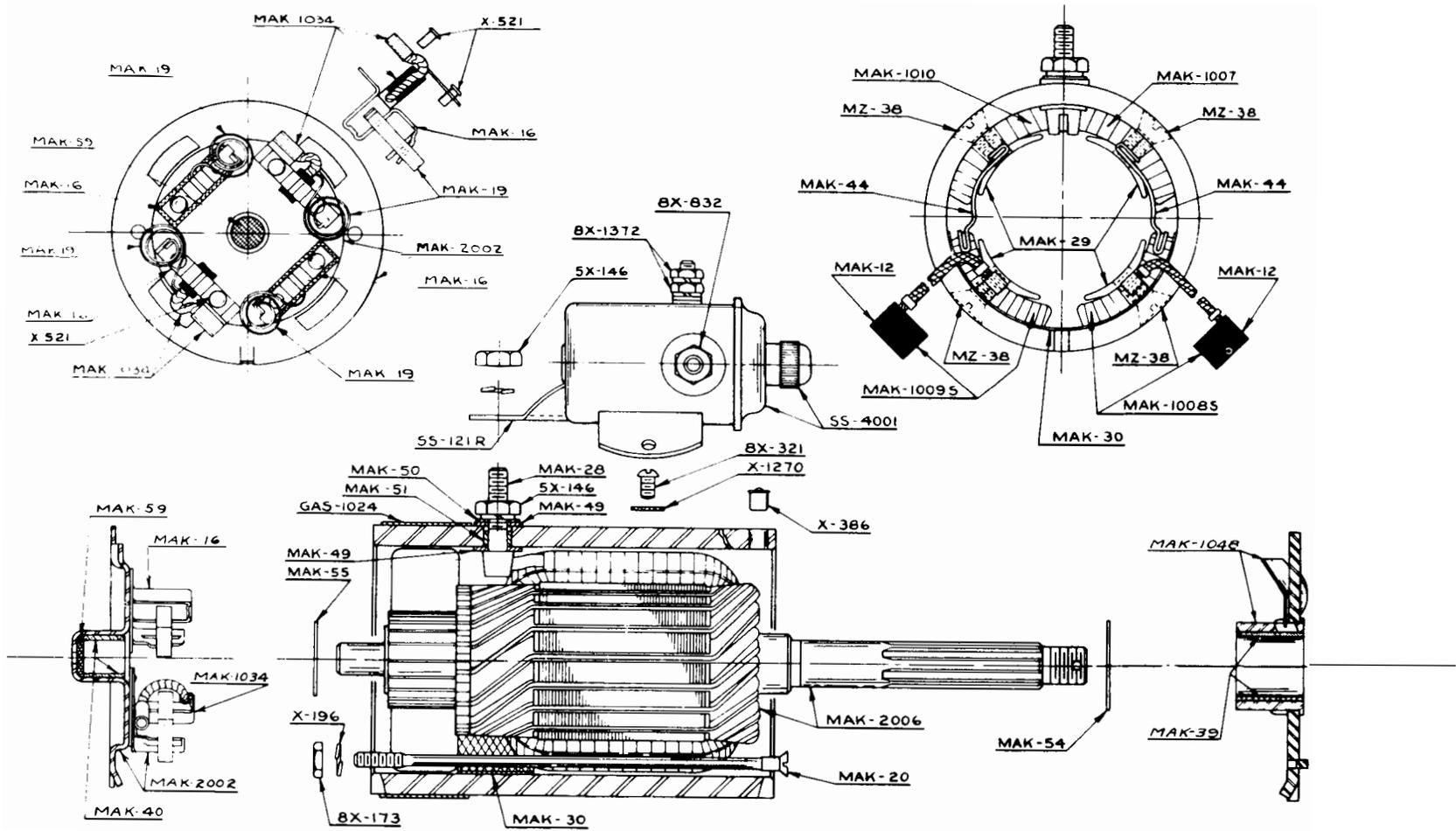
(Issued 1-24-36)

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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."

MAK-4014 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAK-4015 STARTING MOTOR PARTS LIST

MAK-4015

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAK-20	2	Frame Screw					
(MAK-2001)	1	Frame & Field Assy.					
MAK-28	1	Terminal Post					
MAK-29	4	Pole Piece					
MAK-30	1	Insulation					
MAK-44	2	Field Coil Connector					
MAK-49	2	Insulating Washer					
MAK-50	1	Plain Washer					
MAK-51	1	Insulating Bushing					
MAK-1007	1	Field Coil - U.R.					
MAK-1008S	1	Field Coil & Brush Assy.- L.R.					
MAK-12	1	Brush					
MAK-1009S	1	Field Coil & Brush Assy.- L.L.					
MAK-12	1	Brush					
MAK-1010	1	Field Coil - U.L.					
MZ-38	4	Pole Piece Screw					
5X-146	1	1/4-20 Hex. Nut					
X-199	1	1/4 Lock Washer					
5X-146	1	1/4-20 Hex. Nut					
8X-173	2	#10-32 Hex. Nut					
X-196	2	#10 Lock Washer					
X-199	1	1/4 Lock Washer					
X-386	1	Ball Oiler - 1/4 Press in					

Comm. End Plate Assembly & Parts Used With

MAK-2002	1	Comm. End Plate Assy.					
MAK-16	2	Brush Holder					
MAK-19	4	Brush Spring					
MAK-40	1	Absorbent Bronze Brg.					
MAK-59	1	Felt Pad					
MAK-1034	2	Brush - Grounded					
X-521	4	9/32 Tubular Rivet					
			1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAK-54	1	Thrust Washer					
MAK-55	1	Thrust Washer					
MAK-2090	1	Armature Assembly					
<u>Miscellaneous Parts</u>							
GAS-1024	1	Head Band Assembly					
MAK-1048	1	Drive End Head Assy.					
MAK-39	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

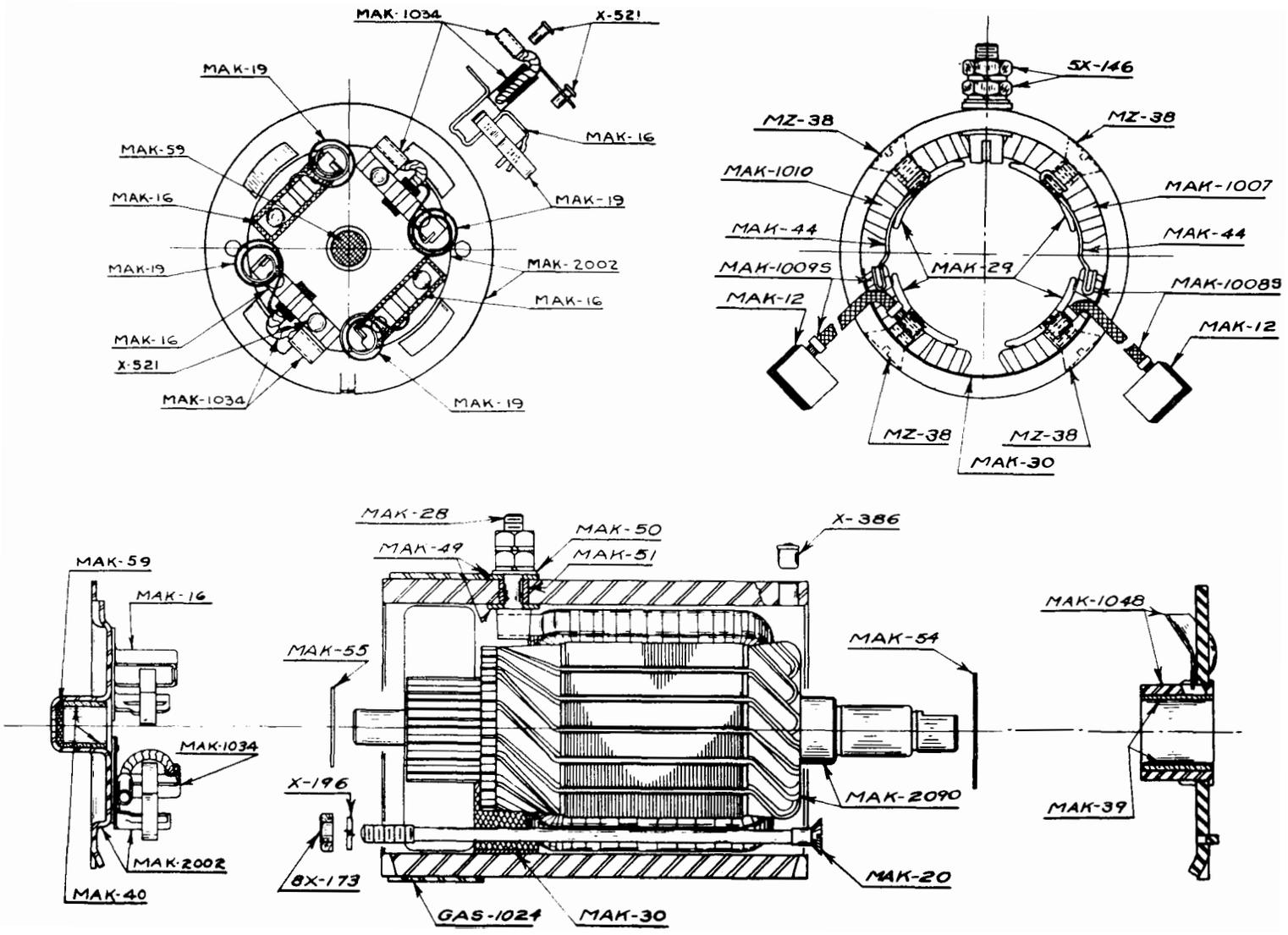
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MAK-4015 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAK-4016 STARTING MOTOR PARTS LIST

MAK-4016

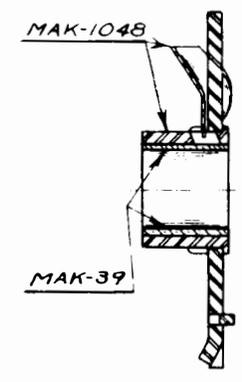
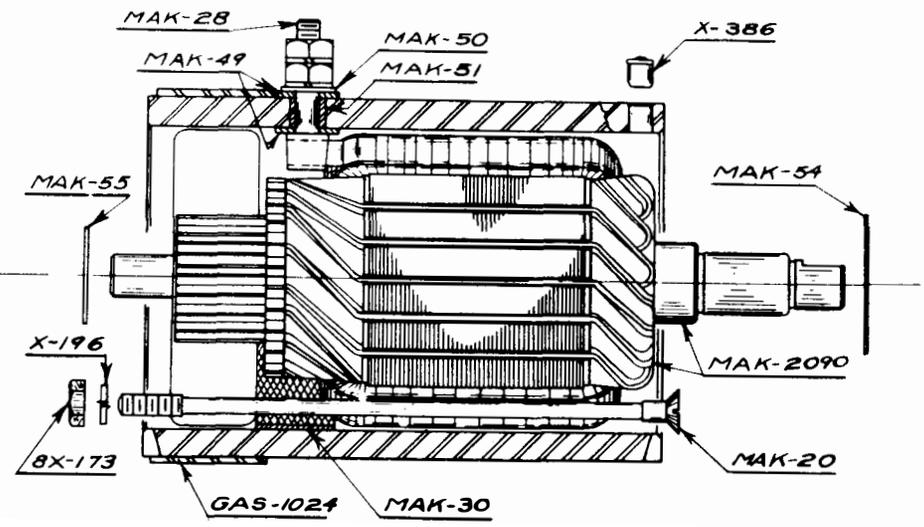
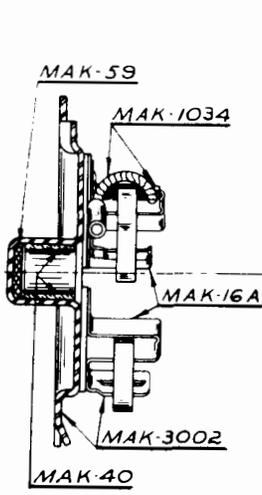
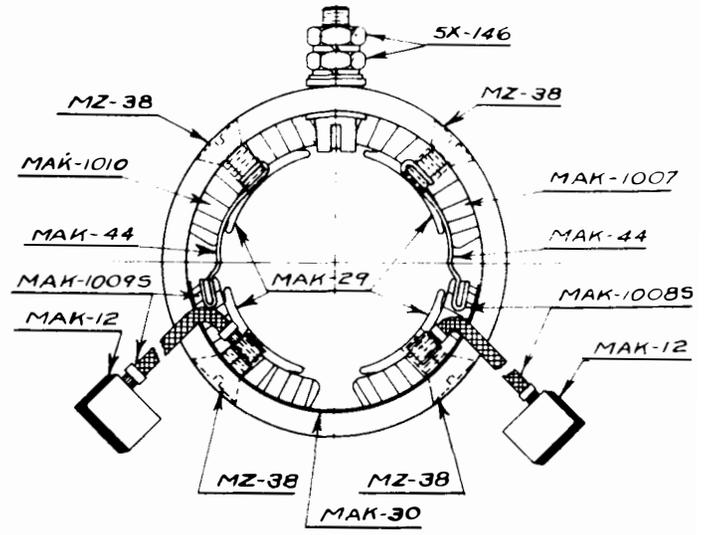
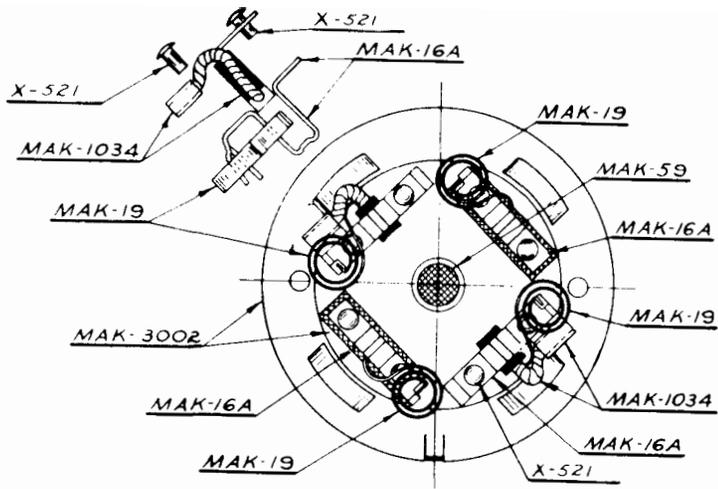
<u>Frame & Field Assy. With Terminal Post & Parts Used With</u>						<u>Armature Assy. & Parts Used With</u>								
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part					
		1	2	3	4	5			1	2	3	4	5	
MAK-20	2	Frame Screw					MAK-54	1	Thrust Washer					
(MAK-2001)	1	Frame & Field Assy.					MAK-55	1	Thrust Washer					
MAK-28	1	Terminal Post					MAK-2090	1	Armature Assembly					
MAK-29	4	Pole Piece					<u>Drive End Head Assy. & Parts Used With</u>							
MAK-30	1	Insulation					MAK-1048	1	Drive End Head Assy.					
MAK-44	2	Field Coil Connector					MAK-39	1	Absorbent Bronze Brg.					
MAK-49	2	Ins. Washer					<u>Miscellaneous Parts</u>							
MAK-50	1	Plain Washer					GAS-1024	1	Head Band Assy.					
MAK-51	1	Ins. Bushing					X-714	1	#10-32x1 1/2 Rd. Hd. Screw					
MAK-1007	1	Field Coil - U.R.					8X-794	1	#10-32 Square Nut					
MAK-1008S	1	Field Coil & Brush Assy.- L.R.							1	2	3	4	5	
MAK-12	1	Brush					(Issued 11-30-37)							
MAK-1009S	1	Field Coil & Brush Assy.- L.L.												
MAK-12	1	Brush												
MAK-1010	1	Field Coil - U.L.												
MZ-38	4	Pole Piece Screw												
5X-146	1	1/4-20 Hex. Nut												
X-199	1	1/4 Lock Washer												
5X-146	1	1/4-20 Hex. Nut												
8X-173	2	#10-32 Hex. Nut												
X-196	2	#10 Lock Washer												
X-199	1	1/4 Lock Washer												
X-386	1	Ball Oiler - 1/4 Press in												
<u>Comm. End Plate Assy. & Parts Used With</u>														
MAK-3002	1	Comm. End.Plate Assy.												
MAK-16A	2	Brush Holder												
MAK-19	4	Brush Spring												
MAK-40	1	Absorbent Bronze Brg.												
MAK-59	1	Felt Pad												
MAK-1034	2	Brush - Grounded												
X-521	4	9/32 Tubular Rivet												
		1	2	3	4	5								

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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."

MAK-4016 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAK-4017 STARTING MOTOR PARTS LIST

MAK-4017

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

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAK-79	2					Frame Screw
(MAK-2091)	1					Frame & Field Assy.
MAK-28	1					Terminal Post
MAK-29	4					Pole Piece
MAK-30	1					Insulation
MAK-44	2					Field Coil Connector
MAK-49	2					Ins. Washer
MAK-50	1					Plain Washer
MAK-51	1					Ins. Bushing
MAK-1007	1					Field Coil - U.R.
MAK-1008S	1					Field Coil & Brush Assy.- L.R.
MAK-12	1					Brush
MAK-1009S	1					Field Coil & Brush Assy.- L.L.
MAK-12	1					Brush
MAK-1010	1					Field Coil - U.L.
MZ-38	4					Pole Piece Screw
5X-146	1					1/4-20 Hex. Nut
X-199	1					1/4 Lock Washer
5X-146	1					1/4-20 Hex. Nut
X-196	2					#10 Lock Washer
X-199	1					1/4 Lock Washer

Comm. End Plate Assy. & Parts Used With

Part No.	No. Used	Name of Part
MAK-2002	1	Comm. End Plate Assy.
MAK-16	2	Brush Holder
MAK-19	4	Brush Spring
MAK-40	1	Absorbent Bronze Brg.
MAK-59	1	Felt Pad
MAK-1034	2	Brush - Grounded
X-521	4	9/32 Tubular Rivet
		1 2 3 4 5

Armature Assy. & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAK-54	1					Thrust Washer
MAK-55	1					Thrust Washer
MAK-2006	1					Armature Assembly
<u>Miscellaneous Parts</u>						
EBA-13	1					Bendix Drive Assembly
GAS-1024	1					Head Band Assembly
PS-1137	1					Drive End Head Assy.
GBF-95	1					Dowel Pin
MAK-39	1					Absorbent Bronze Bearing
X-714	1					#10-32x1 1/2 Rd. Hd. Screw
8X-794	1					#10-32 Square Nut

Switch Assy. & Parts Used With

Part No.	No. Used	Name of Part
SS-121R	1	Connector
SS-4001	1	Solendid 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
		1 2 3 4 5

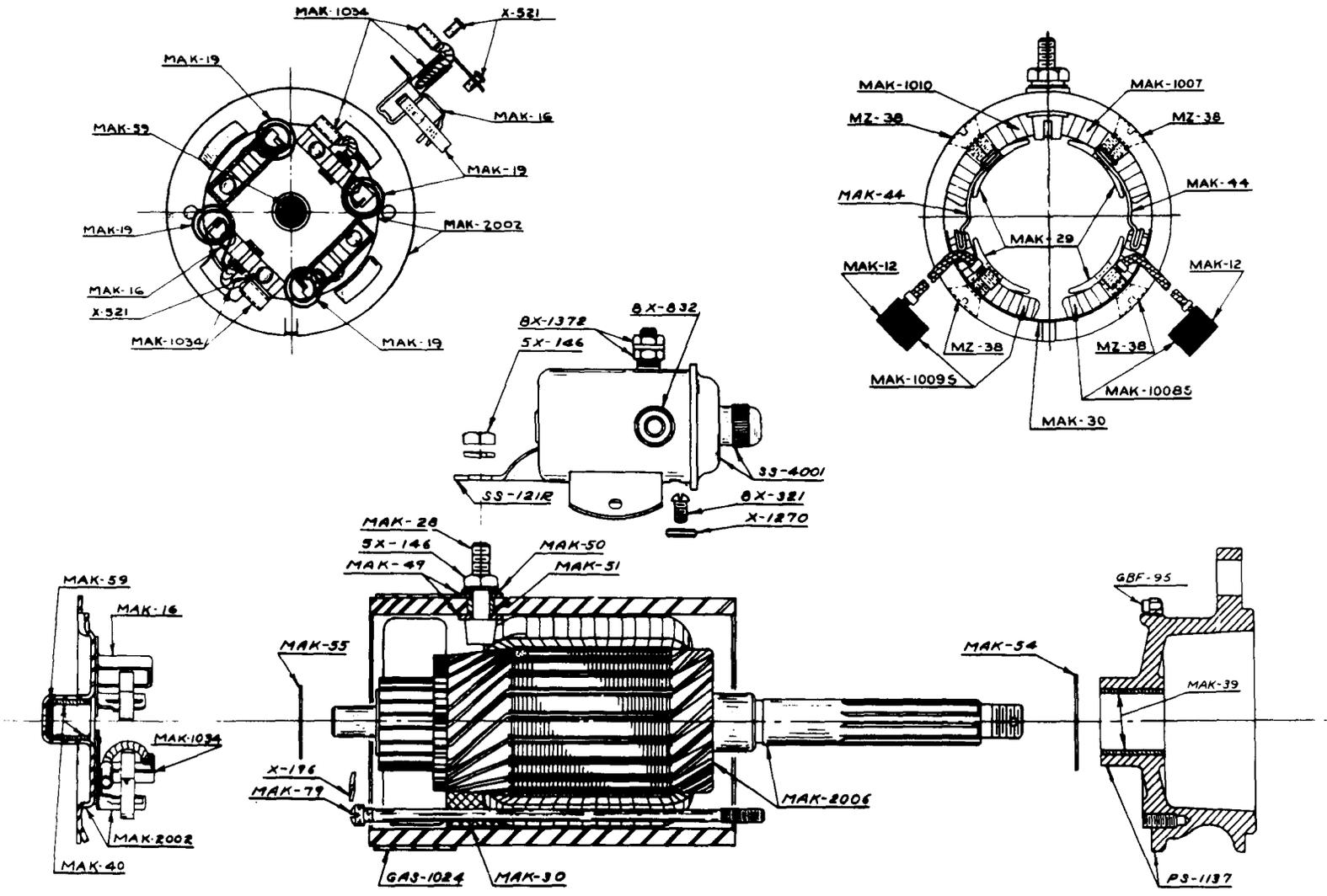
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Equipment & Parts Lists Binder

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

MAK-4017 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAK-4018A STARTING MOTOR PARTS LIST

MAK-4018A
(Issued 10-3-55)

<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
MAK-20	2	Bolt, Thru	GAS-24F	1	Band, Cover
MAK-2001A	1	Frame & Field Assy.	MAK-1048	1	Head Assy., Drive End
MAK-12 †	2	Brush	MAK-39	1	BEARING, ABSORBENT BRONZE
MAK-28	1	Stud, Terminal	X-386	1	Oiler
MAK-30	1	Insulation, Field Connection	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MAK-49	2	Washer, Ins., Term. Stud	8X-794	1	Nut, Cover Band, Square #10-32
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			
<u>Comm. End Head Assembly & Parts Used With</u>					
MAK-3002	1	Head Assy., Comm. End			
MAK-19	4	Spring, Brush			
MAK-59	1	Felt			
MAK-1034S †	2	Brush, Grounded			
<u>Armature Assembly & Parts Used With</u>					
MAK-54	1	Washer, Thrust, D. E., 1/32" Thick			
MAK-55	1	Washer, Thrust, C. E., 1/32" Thick			
MAK-2074	1	ARMATURE			
X-261	1	Key, Woodruff, #6			

† BRUSH SET, SERVICE MAK-2012AS.

UNIT	APPLICATION
MAK-4018A	Chief Industries

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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

MAK-4020 STARTING MOTOR PARTS LIST

MAK-4020

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

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAK-79	2					Frame Screw
(MAK-2084)	1					Frame & Field Assembly
MAK-28	1					Terminal Post
MAK-29	4					Pole Piece
MAK-30	1					Insulation
MAK-44	2					Field Coil Connector
MAK-49	2					Insulating Washer
MAK-50	1					Plain Washer
MAK-51	1					Insulating Bushing
MAK-1007	1					Field Coil - U.R.
MAK-1008S	1					Field Coil & Brush Assy.- L.R.
MAK-12	1					BRUSH
MAK-1009S	1					Field Coil & Brush Assy.- L.L.
MAK-12	1					BRUSH
MAK-1010	1					Field Coil - U.L.
MZ-38A	4					Pole Piece Screw
5X-146	1					1/4-20 Hex. Nut
X-199	1					1/4 Lock Washer
5X-146	1					1/4-20 Hex. Nut
X-196	2					#10 Lock Washer
X-199	1					1/4 Lock Washer

Comm. End Plate Assy. & Parts Used With

MAK-3002	1	Comm. End Plate Assembly
MAK-16A	2	Brush Holder
MAK-19	4	Brush Spring
MAK-40	1	ABSORBENT BRONZE BRG.
MAK-59	1	Felt Pad
MAK-1034	2	BRUSH - Grounded
X-521	4	9/32 Tubular Rivet

Armature Assembly & Parts Used With

MAK-55	1	Thrust Washer
MAK-2088	1	ARMATURE ASSEMBLY
MU-54	1	Thrust Washer - 1/32" Thick
X-261	1	#6 Woodruff Key
		1 2 3 4 5

Miscellaneous Parts

Part No.	No. Used	Name of Part				
		1	2	3	4	5
EB-56	1					BENDIX DRIVE ASSEMBLY
EB-508	2					Lock Washer
EB-2303	1					Driving Head
EB-2319S	1					Compression Sleeve
EB-2405	1					DRIVE SPRING
EB-2406	1					Hd. Sp. Bolt or Screw
EB-2407	1					Shaft Spring Screw
EB-2622	2					Spring Support Clip
EB-5611	1					S-A Assembly
GAS-1024	1					Head Band Assembly
MAK-2092	1					INTERMEDIATE BEARING ASSY.
MZ-44A	1					Absorbent Bronze Brg.
PS-1153	1					Pinion Housing Assembly
GBF-95	1					Dowel Pin
MAB-88	1					Dowel Pin
MP-41A	1					Absorbent Bronze Brg.
X-714	1					#10-32x1 1/2 Rd. Hd. Screw
8X-794	1					#10-32 Square Nut
						1 2 3 4 5

(Issued 8-22-39)

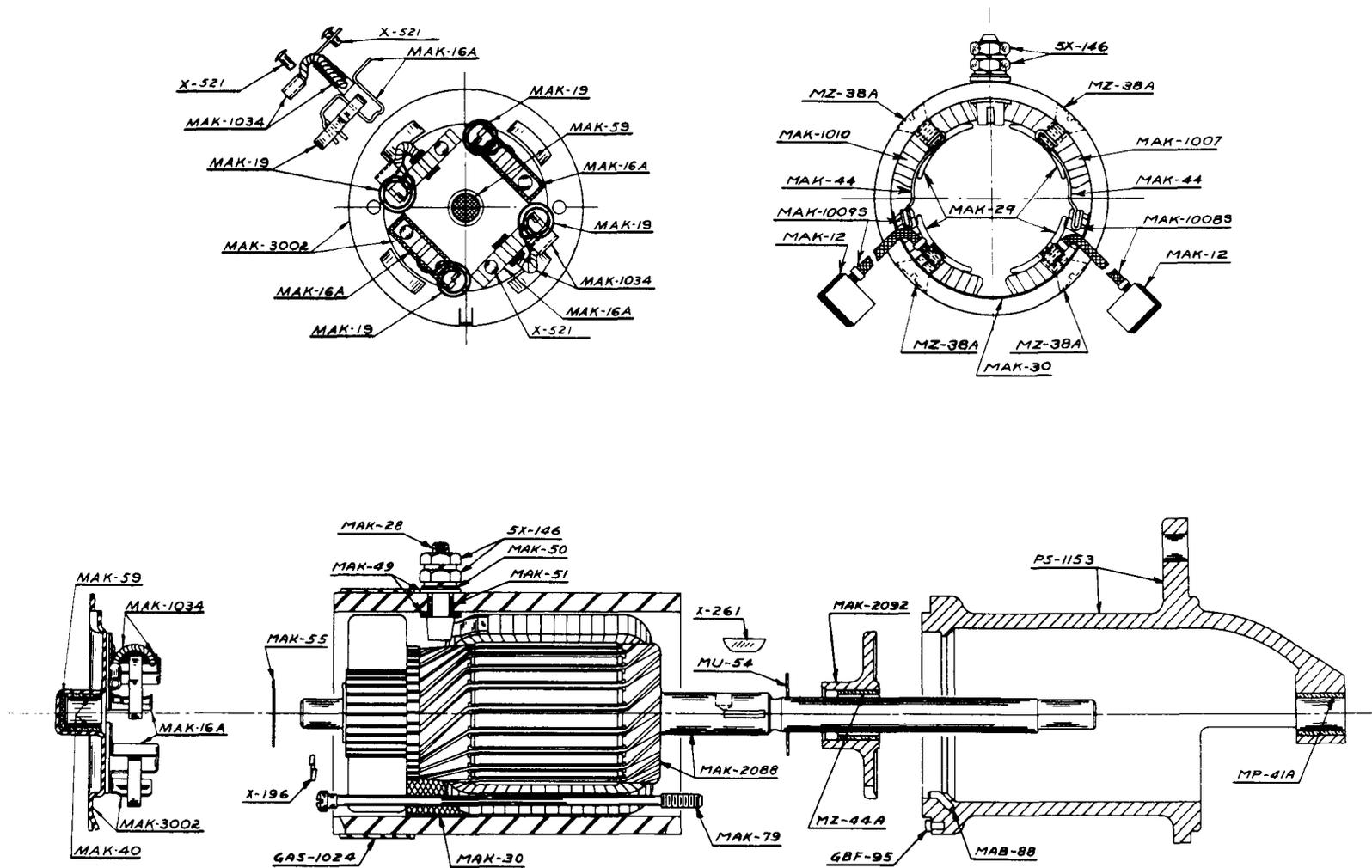
UNIT	APPLICATION
MAK-4020	Wisconsin Motor Co.

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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."

MAK-4020 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAK-4021 STARTING MOTOR PARTS LIST

MAK-4021

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

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MAK-20	2	Frame Screw					
(MAK-2093)	1	Frame & Field Assembly					
MAK-28	1	Terminal Post					
MAK-29	4	Pole Piece					
MAK-30	1	Insulation					
MAK-44	2	Field Coil Connector					
MAK-49	2	Insulating Washer					
MAK-50	1	Plain Washer					
MAK-51	1	Insulating Bushing					
MAK-1007	1	Field Coil - U.R.					
MAK-1008S	1	Field Coil & Brush Assy.- L.R.					
MAK-12	1	BRUSH					
MAK-1009S	1	Field Coil & Brush Assy.- L.L.					
MAK-12	1	BRUSH					
MAK-1010	1	Field Coil - U.L.					
MZ-38	4	Pole Piece Screw					
5X-146	1	1/4-20 Hex. Nut					
X-199	1	1/4 Lock Washer					
5X-146	1	1/4-20 Hex. Nut					
SX-173	2	#10-32 Hex. Nut					
X-196	2	#10 Lock Washer					
X-199	1	1/4 Lock Washer					

Comm. End Plate Assy. & Parts Used With

MAK-2002	1	Comm. End Plate Assembly
MAK-16	2	Brush Holder
MAK-19	4	Brush Spring
MAK-40	1	Absorbent Bronze Brg.
MAK-59	1	Felt Pad
MAK-1034	2	BRUSH - Grounded
X-521	4	9/32 Tubular Rivet

Armature Assembly & Parts Used With

MAK-54	1	Thrust Washer
MAK-55	1	Thrust Washer
MAK-2006	1	ARMATURE ASSEMBLY
		1 2 3 4 5

Switch Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
SS-159L	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

EB-79	1	BENDIX DRIVE ASSEMBLY
EB-6505	1	DRIVE SPRING
EB-6813	1	Anti-Drift Spring
EB-6823	2	Thrust Washer
EB-6824	1	Drive Spring Support
EB-6825	1	Meshing Spring
EB-6826	1	Anti-Drift Spr. Sleeve
EB-6827	1	Pinion Washer
EB-6828	1	Castellated Nut
EB-7901	1	Shaft
EB-7902	1	Drive Stop
EB-8104S	1	Pinion
GAS-1024	1	Head Band Assembly
MAK-1048	1	Drive End Head Assembly
MAK-39	1	ABSORBENT BRONZE BRG.
X-386	1	Ball Oiler - 1/4 Press In
X-714	1	#10-32x1 1/2 Rd. Hd. Screw
8X-794	1	#10-32 Square Nut
		1 2 3 4 5

(Issued 4-3-40)

UNIT	APPLICATION
MAK-4021	S. H. Arnolt

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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

MAK-4022 STARTING MOTOR PARTS LIST

MAK-4022
(Issued 2-4-54)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
MAK-79	2	Bolt, Thru
MAK-2084	1	Frame & Field Assy.
MAK-12†	2	Brush
MAK-28	1	Stud, Terminal
MAK-30	1	Insulation, Field Connection
MAK-49	2	Washer, Ins., Term. Stud
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	Plain Washer, Term. Stud
8X-146	2	Nut, Term. Stud, Hex. 1/4-20
12X-199	2	Lockwasher, Term. Stud, 1/4
12X-196	2	Lockwasher, Thru Bolt, #10

Comm. End Head Assembly & Parts Used With

MAK-3002	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-55	1	Washer, Thrust, C. E., 1/32" Thick
MAK-2088	1	ARMATURE
MU-54	1	Washer, Thrust, Int., 1/32" Thick
X-261	1	Key, Woodruff, D. E., #6

Miscellaneous Parts

Part No.	No. Used	Name of Part
EBA-36A	1	BENDIX DRIVE ASSY.
EB-108A	2	Lockwasher
EB-7819SA	1	Sleeve, Compression
EB-8503A	1	Head, Drive
EB-8506A	1	Screw, Spring, Head
EB-8507A	1	Screw, Spring, Shaft
EB-8734A	1	Ring, Take-Up
EBA-405A	1	SPRING, DRIVE
EBA-3611A	1	Shaft & Pinion
GAS-1024F	1	Band, Cover
MAK-2092	1	BEARING ASSY., INTERMEDIATE
MZ-44A	1	Bearing, Abs. Bronze
PS-1153A	1	Housing Assy., Pinion
GBF-95	1	Pin, Dowel
MAB-88	1	Pin, Dowel
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

† BRUSH SET, SERVICE MAK-2012AS.

UNIT	APPLICATION
MAK-4022	Wisconsin

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

MAK-4023 STARTING MOTOR PARTS LIST

MAK-4023

PRELIMINARY

Frame & Field Assembly with Terminal Post
& Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAK-20	2	Frame Screw				
(MAK-2001)	1	Frame & Field Assy.				
MAK-28	1	Terminal Post				
MAK-29	4	Pole Piece				
MAK-30	1	Insulation				
MAK-44	2	Field Coil Connector				
MAK-49	2	Insulating Washer				
MAK-50	1	Plain Washer				
MAK-51	1	Insulating Bushing				
MAK-1007	1	Field Coil - U.R.				
MAK-1008S	1	Field Coil & Brush Assy. - L.R.				
MAK-12	1	BRUSH				
MAK-1009S	1	Field Coil & Brush Assy. - L.L.				
MAK-12	1	BRUSH				
MAK-1010	1	Field Coil - U.L.				
MZ-38	4	Pole Piece Screw				
5X-146	1	1/4-20 Hex. Nut				
X-199	1	1/4 Lock Washer				
5X-146	1	1/4-20 Hex. Nut				
5X-173	2	#10-32 Hex. Nut				
X-196	2	#10 Lock Washer				
X-199	1	1/4 Lock Washer				

Comm. End Plate Assembly & Parts Used With

MAK-2002	1	Comm. End Plate Assy.				
MAK-16	2	Brush Holder				
MAK-19	4	Brush Spring				
MAK-59	1	Felt Pad				
MAK-1034	2	BRUSH - GROUNDED				
X-521	4	9/32 Tubular Rivet				
		1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MAK-54	1	Thrust Washer				
MAK-55	1	Thrust Washer				
MAK-2006	1	ARMATURE ASSEMBLY				
<u>Miscellaneous Parts</u>						
EB-79	1	BENDIX DRIVE ASSY.				
EB-6505	1	DRIVE SPRING				
EB-6813	1	Anti-Drift Spring				
EB-6823	2	Thrust Washer				
EB-6824	1	Drive Spring Support				
EB-6825	1	Meshing Spring				
EB-6826	1	Anti-Drift Sp. Sleeve				
EB-6827	1	Pinion Washer				
EB-6828	1	Castellated Nut				
EB-7901	1	Shaft				
EB-7902	1	Drive Stop				
EB-8104S	1	Pinion				
GAS-1024	1	Head Band Assy.				
MAK-1048	1	Drive End Head Assy.				
MAK-39	1	ABSORBENT BRONZE BRG.				
X-386	1	Ball Oiler - 1/4 Press in				
X-714	1	#10-32x1 1/2 Rd. Hd. Screw				
5X-794	1	#10-32 Square Nut				
		1	2	3	4	5

(Issued 5-16-41)

UNIT	APPLICATION
MAK-4023	Stover Mfg., Universal

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

MAK-4026 STARTING MOTOR PARTS LIST

MAK-4026

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
MAK-20	2	Bolt, Thru	SS-228	1	Connector
(MAK-2097)	1	Frame & Field Assy.	SS-4001	1	Solenoid Starting Switch
MAK-12 †	2	Brush	8X-173	1	Nut, Hex., #10-32
MAK-28	1	Stud, Terminal	12X-196	1	Lockwasher, #10
MAK-30	1	Insulation, Field Connection	8X-832	2	Nut, Hex. 5/16-24
MAK-49	2	Washer, Insulating	12X-1014	2	Lockwasher, 5/16
MAK-51	1	Bushing, Ins., Term. Stud	8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
MAK-3005S	1	Field Coil Package	X-1270	2	Washer, Switch Mtg., Skpf. #10
MAK-44	2	Connector, Field Coil	<u>Miscellaneous Parts</u>		
MAK-1007	1	Coil, Field, U.R.	EB-79	1	Bendix Drive Assembly
MAK-1008	1	Coil, Field, L.R.	EB-6505	1	Spring, Drive
MAK-1009	1	Coil, Field, L.L.	EB-6813	1	Spring, Anti-Drift
MAK-1010	1	Coil, Field, U.L.	EB-6823	2	Washer, Thrust
MZ-38A	4	Screw, Pole Shoe	EB-6824	1	Support, Drive Spring
SSA-42	2	Washer Plain Term. Stud	EB-6825	1	Spring, Meshing
8X-146	2	Nut, Term. Stud, Hex. 1/4-20	EB-6826	1	Sleeve, Anti-Drift Spring
12X-199	2	Lockwasher, Term. Stud, 1/4	EB-6827	1	Washer, Pinion
8X-173	2	Nut, Thru Bolt, Hex. #10-32	EB-6828	1	Nut
12X-196	2	Lockwasher, Thru Bolt, #10	EB-7901	1	Shaft
<u>Comm. End Head Assembly & Parts Used</u>			EB-7902	1	Drive Stop
MAK-2002	1	Head Assy., Comm. End	EB-8104S	1	Pinion
MAK-19	4	Spring, Brush	GAS-24F	1	Band, Cover
MAK-59	1	Felt	MAK-1048	1	Head Assy., Drive End
MAK-1034S†	2	Brush, Grounded	MAK-39	1	Bearing, Absorbent Bronze
<u>Armature Assembly & Parts Used With</u>			X-386	1	Oiler, Ball, Press in, 1/4
MAK-54	1	Washer, Thrust, Arm. Shaft, D.E.	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MAK-55	1	Washer, Thrust, Arm. Shaft, C.E.	8X-794	1	Nut, Cover Band, Square #10-32
MAK-2006	1	Armature	† Brush Set, Service MAK-2012AS.		

UNIT	APPLICATION
MAK-4026	Universal

(Issued 7-14-48)

Printed in U. S. A.

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



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAK-4027, A STARTING MOTOR PARTS LIST

MAK-4027, A
(Issued 2-24-55)

<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
MAK-20	2	Bolt, Thru	**	1	BENDIX DRIVE ASSEMBLY
MAK-2001A	1	Frame & Field Assembly	EB-108	2	Lockwasher
MAK-12†	2	Brush	EB-7809S	1	Sleeve, Compression
MAK-28	1	Stud, Terminal	EB-8503	1	Head, Drive
MAK-30	1	Insulation, Field Connection	EB-8506	1	Screw, Spring, Head
MAK-49	2	Washer, Ins., Term. Stud	EB-8507	1	Screw, Spring, Shaft
MAK-51	1	Bushing, Ins., Term. Stud	EB-8734	1	Ring, Take-Up
MAK-3005S	1	FIELD COIL PACKAGE	EBA-405	1	SPRING, DRIVE
MAK-44	2	Connector, Field Coil	EBA-9711	1	Shaft & Pinion
MAK-1007	1	Coil, Field, U. R.	GAS-24F	1	Band, Cover
MAK-1008	1	Coil, Field, L. R.	MAK-1048	1	Head Assy., Drive End
MAK-1009	1	Coil, Field, L. L.	MAK-39	1	BEARING, ABS. BRONZE
MAK-1010	1	Coil, Field, U. L.	X-386	1	Oiler
MZ-38A	4	Screw, Pole Shoe	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
SSA-43	2	Washer, Plain, Term. Stud	8X-794	1	Nut, Cover Band, Square #10-32
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			
<u>Comm. End Head Assembly & Parts Used With</u>			† BRUSH SET, SERVICE MAK-2012AS.		
MAK-2002A	1	Head Assy., Comm. End	** See table following parts list for part number applying to assembly wanted.		
MAK-19	4	Spring, Brush	Assembly No.	Bendix Drive Assy.	
MAK-59	1	Felt	MAK-4027	EBA-97	
MAK-1034S†	2	Brush, Grounded	MAK-4027A	None	
<u>Armature Assembly & Parts Used With</u>					
MAK-54	1	Washer, Thrust, D. E.			
MAK-55	1	Washer, Thrust, C. E.			
MAK-2074	1	ARMATURE			
X-261	1	Key, Woodruff, D. E., #6			

UNIT	APPLICATION
MAK-4027	Crosley
MAK-4027A	Chief Industries

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File in
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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAK-4028 STARTING MOTOR PARTS LIST

MAK-4028

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
MAK-79	2	Bolt, Thru
(MAK-2098)	1	Frame & Field Assy.
MAK-12 †	2	Brush
MAK-28	1	Stud, Terminal
MAK-30	1	Insulation, Field Connection
MAK-49	2	Washer, Ins., Term. Stud
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
12X-196	2	Lockwasher, Thru Bolt, #10

Comm. End Head Assembly & Parts Used With

MAK-3002	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-55	*	Washer, Arm. Thrust, C.E., 1/32" Thick
MAK-55A	*	Washer, Arm. Thrust, C.E., .015" Thick
MAK-55B	*	Washer, Arm. Thrust, C.E., .045" Thick
MAK-2099	1	ARMATURE
MU-54	*	Washer, Arm. Thrust, Intermediate, 1/32" Thick
MU-54A	*	Washer, Arm. Thrust, Intermediate, 1/64" Thick
MU-54B	*	Washer, Arm. Thrust, Intermediate, 3/64" Thick
X-261	1	Key, Woodruff, #6

Miscellaneous Parts

Part No.	No. Used	Name of Part
EBA-80B	1	BENDIX DRIVE ASSY.
EBA-4431A	1	Screw Shaft
EBA-4805	1	Spring, Drive
EBA-4807	2	Plate, Spring Anchor
EBA-4808	1	Ring, Lock
EBA-4813	1	Spring, Anti-Drift
EBA-4825	1	Spring, Meshing
EBA-4833	1	Ring, Retaining
EBA-7906	1	Pin, Locating
EBA-8032A	1	Pinion
GAS-24F	1	Band, Cover
MAK-2092	1	Bearing Assy., Intermediate
MZ-44A	1	BEARING, ABSORBENT BRONZE
PS-1271S	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 MAK-2012AS.

* Use As Required.

UNIT	APPLICATION
MAK-4028	Wisconsin

Printed in U. S. A.

(Issued 6-15-48)

File in
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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAK-4029 STARTING MOTOR PARTS LIST

MAK-4029

Frame & Field Assembly With Terminal Stud & Parts Used With

Part No.	No. Used	Name of Part
MAK-79	2	Bolt, Thru
(MAK-2091)	1	Frame & Field Assy.
MAK-12 †	2	Brush
MAK-28	1	Stud, Terminal
MAK-30	1	Insulation, Field, Connection
MAK-49	2	Washer, Ins.
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-38	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
12X-196	2	Lockwasher, Thru Bolt, #10

Comm. End Head Assembly & Parts Used

MAK-3002	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.
MAK-55	1	Washer, Thrust, Arm. Shaft, C.E.
MAK-2006	1	Armature

Switch Assembly & Parts Used With

Part No.	No. Used	Name of Part
SS-121R	1	Connector
SS-4001	1	Solenoid Starting Switch
8X-173	1	Nut, Hex., #10-32
12X-196	1	Lockwasher, #10
8X-832	2	Nut, Hcx., 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-10	1	Bendix Drive Assy.
EB-6504S	1	Pinion
EB-6505	1	Spring, Drive
EB-6513	1	Spring, Anti-Drift
EB-6823	2	Washer, Thrust
EB-6824	1	Support Drive Spring
EB-6825	1	Spring, Meshing
EB-6826	1	Sleeve, Anti-Drift
EB-6827	1	Pinion Washer
EB-6828	1	Castellated Nut
EB-7101	1	Shaft
EB-7902	1	Drive Stop
GAS-24F	1	Band, Cover
PS-1137A	1	Head Assy., Drive End
GBF-95	1	Pin, Dowel
MAK-39	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 MAK-2012AS.

UNIT	APPLICATION
MAK-4029	Towmotor

(Issued 7-14-48)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAK-4030 STARTING MOTOR PARTS LIST

MAK-4030

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
MAK-20A	2	Bolt, Thru
(MAK-2001B)	1	Frame & Field Assy.
MAK-12 †	2	Brush
MAK-28	1	Stud, Terminal
MAK-30	1	Insulation, Field Conn.
MAK-49	1	Washer, Ins., Term. Stud, Inner
MAK-49A	1	Washer, Ins., Term. Stud, Outer
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.
MAK-55	1	Washer, Thrust, Arm. Shaft, C.E.
MAK-2006	1	Armature

Miscellaneous Parts

Part No.	No. Used	Name of Part
EB-79	1	Bendix Drive Assy.
EB-6505	1	Spring, Drive
EB-6813	1	Spring, Anti-Drift
EB-6823	2	Washer, Thrust
EB-6824	1	Support, Drive Spring
EB-6825	1	Spring, Meshing
EB-6826	1	Sleeve, Anti-Drift Spring
EB-6827	1	Washer, Pinion
EB-6828	1	Nut
EB-7901	1	Shaft
EB-7902	1	Drive Stop
EB-8104S	1	Pinion
GAS-1024K	1	Band, Cover
MAK-1048A	1	Head Assy., Drive End
GBF-95	1	Pin, Dowel
MAK-39	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 MAK-2012AS.

UNIT	APPLICATION
MAK-4030	Waukesha

(Issued 7-14-48)

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File in
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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MAK-4031 STARTING MOTOR PARTS LIST

MAK-4031

Frame & Field Assembly & Parts Used With			Miscellaneous Parts		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MAK-20A	1	Bolt, Thru	EBA-10	1	BENDIX DRIVE ASSY.
(MAK-2100)	1	Frame & Field Assy.	EB-6504S	1	Pinion
MAK-12 †	2	Brush	EB-6505	1	SPRING, DRIVE
MAK-28	1	Stud, Terminal	EB-6513	1	Spring, Anti-Drift
MAK-30	1	Insulation, Field Connection	EB-6823	2	Washer, Thrust
MAK-49	2	Washer, Ins., Term. Stud	EB-6824	1	Support, Drive Spring
MAK-51	1	Bushing, Ins., Term. Stud	EB-6825	1	Spring, Meshing
MAK-3005S	1	FIELD COIL PACKAGE	EB-6826	1	Anti-Drift Sp. Sleeve
MAK-44	2	Connector, Field Coil	EB-6827	1	Pinion Washer
MAK-1007	1	Coil, Field, U.R.	EB-6828	1	Castellated Nut
MAK-1008	1	Coil, Field, L.R.	EB-7101	1	Shaft
MAK-1009	1	Coil, Field, L.L.	EB-7902	1	Drive Stop
MAK-1010	1	Coil, Field, U.L.	GAS-24F	1	Band, Cover
MZ-38A	4	Screw, Pole Shoe	MAK-1101	1	Head Assy., Drive End
SSA-43	2	Washer, Plain, Term. Stud	MAK-39	1	BEARING, ABS. BRONZE
8X-146	2	Nut, Term. Stud, Hex. 1/4-20	X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
12X-199	2	Lockwasher, Term. Stud, 1/4	8X-794	1	Nut, Cover Band, Square #10-32
8X-173	2	Nut, Thru Bolt, Hex. #10-32			
12X-196	2	Lockwasher, Thru Bolt, #10			
Comm. End Head Assembly & Parts Used With					
MAK-3002B	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.			
MAK-55	1	Washer, Arm. Thrust, C.E., 1/32" Thick			
MAK-2006	1	ARMATURE			
Switch Assembly & Parts Used With					
SS-104R	1	Connector			
SS-4001	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			

† BRUSH SET, SERVICE MAK-2012AS.

UNIT	APPLICATION
MAK-4031	Kermath

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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."

