

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4175 STARTING MOTOR PARTS LIST

ML-4175

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MH-20	2	Frame Screw					
(ML-2025)	1	Frame & Field Assembly					
GK-38	4	Pole Piece Screw					
MK-29	4	Pole Piece					
ML-1007	1	Field Coil - U.L.					
ML-1008	1	Field Coil - L.R.					
ML-1009	1	Field Coil - L.L.					
ML-1010	1	Field Coil - U.R.					
MN-21	1	Dowel Pin					
MO-17	1	Field Coil Lead Assy.					
X-983	2	Side Open Terminal					
MR-32	1	Field Lead Ins.					
X-1014	2	5/16 Lock Washer					

Terminal Post Assembly & Parts Used With

MH-3028	1	Terminal Post Assy.					
MG-22	1	Plain Steel Washer					
MG-27	1	Terminal Post					
MG-68	2	Insulating Washer					
MG-69	1	Terminal Post Cover Ins.					
MG-70	1	Terminal Post Frame Ins.					
MH-28	1	Terminal Post Connector					
5X-179	2	3/8-16 Hex. Nut					
X-201	2	3/8 Lock Washer					

Comm. End Head Assembly & Parts Used With

MG-10848	1	Bearing Cover with Oiler					
(ML-2090)	1	Comm. End Head Assembly					
GK-162	2	Brush Holder Spacing Ins.					
GT-14	4	Brush Holder					
GT-32	2	Spring Insulator					
GT-35	2	Insulating Bushing					
GT-37	2	Insulating Washer					
GT-41	2	Brush Holder Post Clip					
MG-74	4	Brush Spring					
MH-53	2	Ground Connector					
MH-54	4	BRUSH					
ML-10908	1	C.E. Head Part Assembly					
ML-10408	1	C.E. Cap & Bearing Assy					
MAL-40A	1	ABSORBENT BRONZE BEARING					
8X-1452	4	3/16x5/16 Oval Hd. Rivet					
6X-122	4	#8-32x1/2 Fill. Hd. Screw					
X-195	4	#8 Lock Washer					
X-196	2	#10 Lock Washer					
6X-311	2	#10-32x3/8 Rd. Hd. Screw					
6X-794	2	#10-32 Square Nut					
	1		2	3	4	5	

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MG-61	2	7/8 Plain Washer					
ML-2096	1	ARMATURE ASSEMBLY					
X-261	1	#6 Woodruff Key					
<u>Miscellaneous Parts</u>							
EBA-8	1	BENDIX DRIVE ASSEMBLY					
GX-1024	1	Head Band Assembly					
ML-95	1	Lock Spring Ring					
ML-1094	1	INTERMEDIATE PLATE ASSY.					
ML-21A	1	Absorbent Bronze Brg.					
PS-1085	1	Pinion Housing Assembly					
MG-77A	1	Absorbent Bronze Brg.					
MN-21	1	Dowel Pin					
X-489	1	1/4 Oiler - Press in Type					
6X-716	1	#8-32x1 1/8 Rd. Hd. Screw					
6X-1410	1	#8-32 Square Nut					
			1	2	3	4	5

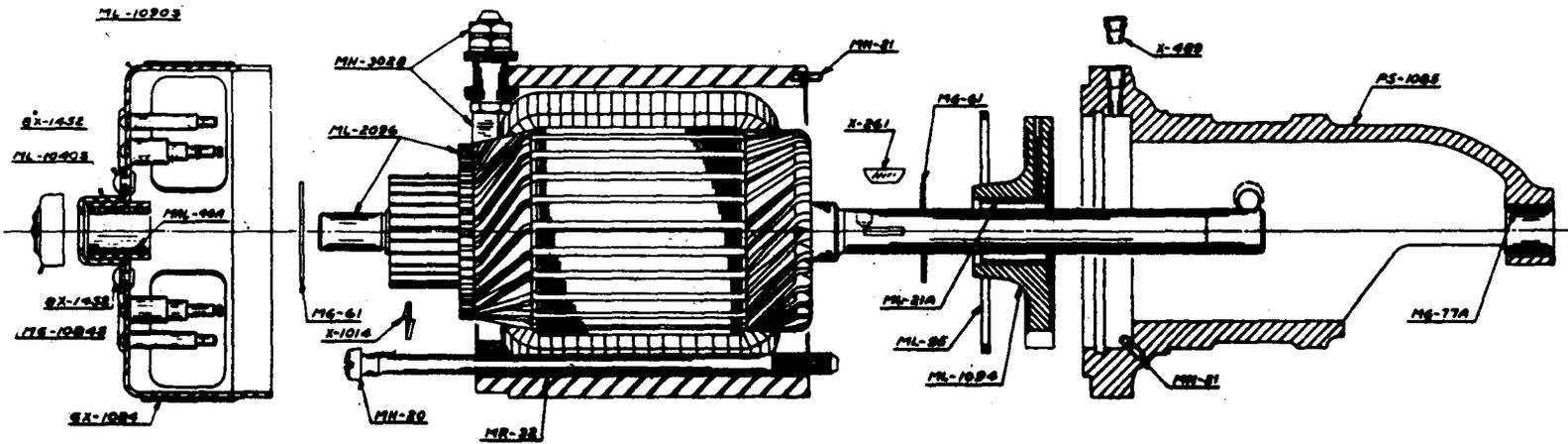
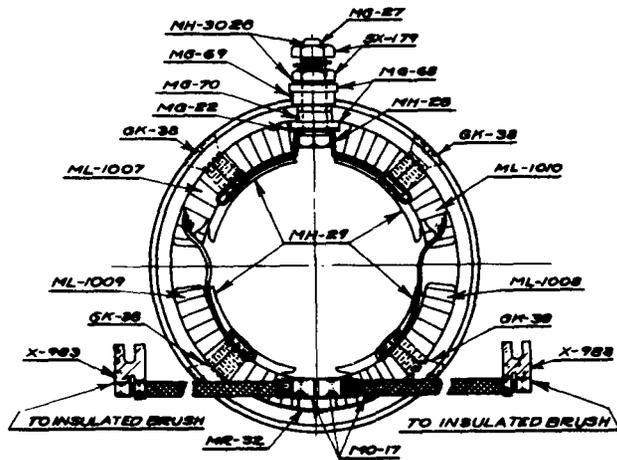
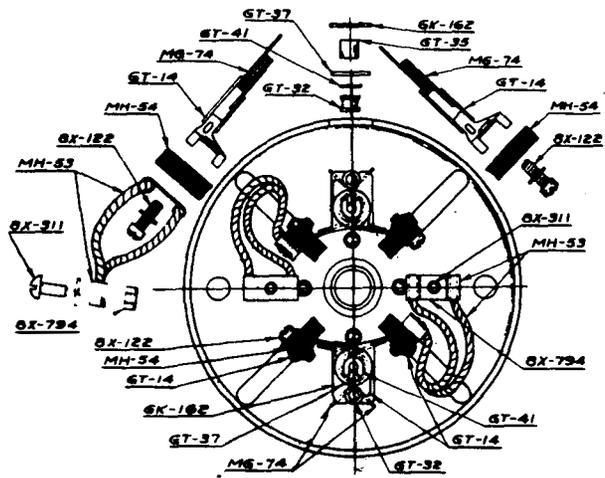
(Issued 4-4-39)

UNIT	APPLICATION
ML-4175	Kermath

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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."



ML-4175 STARTING MOTOR ILLUSTRATION

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4176,A STARTING MOTOR PARTS LIST

ML-4176,A

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
MH-20	2	Bolt, Thru
(ML-2097)	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MG-22	1	Washer, Plain, Term. Stud, Inner
MG-27	1	Stud, Terminal
MG-68	2	Washer, Ins., Term. Stud
MG-69	1	Ins., Term. Stud, Outer
MG-70	1	Ins., Term. Stud, Inner
MH-28	1	Connector
ML-3005S	1	FIELD COIL PACKAGE
ML-1007	1	Coil, Field, U.L.
ML-1008	1	Coil, Field, L.R.
ML-1009	1	Coil, Field, L.L.
ML-1010	1	Coil, Field, U.R.
MN-21	1	Pin, Dowel
MO-17	1	Lead Assy., Field Coil
X-983	2	Terminal
MR-32	1	Insulation, Field Connection
5X-179	2	Nut, Term. Stud, Hex. 3/8-16
X-201	2	Lockwasher, Term. Stud, 3/8
12X-1014	2	Lockwasher, Thru Bolt, 5/16

Comm. End Head Assembly & Parts Used With

ML-2090	1	Head Assy., Comm. End
GK-162	2	Insulation, Spacing, Br. Holder
GT-14	4	Holder, Brush
GT-32	2	Insulator, Spring
GT-35	2	Bushing, Insulating
GT-37	2	Washer, Insulating
GT-41	2	Clip, Brush Post
MG-74	4	Spring, Brush
MH-53	2	Connector, Ground
MH-54†	4	Brush
MR-1005	1	Head Assy., Partial, C.E.
MAL-40A	1	Bearing, Abs. Bronze
8X-122	4	Screw, Brush, Fill. Hd. #8-32x1/2
X-195	4	Lockwasher, Brush Sc., #8
X-196	2	Lockwasher, Grd. Sc., #10
6X-311	2	Screw, Grd., Rd. Hd. #10-32x3/8
8X-794	2	Nut, Grd. Sc., Square #10-32
MR-1062A	1	Cover, Bearing, Comm. End

Armature Assembly & Parts Used With

GK-174A	1	Washer, Plain, 1/2
MG-61	1	Washer, Thrust, Inst.
ML-2035A	1	Armature
X-261	1	Key, Woodruff, #6

Part No.	No. Used	Name of Part
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Switch Assembly & Parts Used With

SS-111R	1	Connector
SS-4001	1	SWITCH, STARTING
8X-173	1	Nut, Hex., #10-32
12X-196	1	Lockwasher, #10
8X-832	2	Nut, Hex., 5/16-24
12X-1014	2	Lockwasher, 5/16
8X-321	2	Screw, Switch, Mtg., Rd. Hd. #10-32x5/16
X-1270	2	Washer, Switch Mtg. Sc., Skpf. #10

Miscellaneous Parts

EB-33	1	BENDIX DRIVE ASSY.
EB-508	2	Lockwasher
EB-2303	1	Head, Drive
EB-2319S	1	Sleeve, Compression
EB-2322	2	Clip, Spring Support
EB-2406	1	Screw, Spring, Head
EB-2407	1	Screw, Spring, Shaft
EB-3105	1	SPRING, DRIVE
EB-3311	1	Shaft & Pinion
GX-1024	1	Band, Cover
ML-2027A	1	BEARING ASSY., INTERMEDIATE
ML-21A	1	Bearing, Abs. Bronze
PS-1060A	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

NOTE: The ML-4176A starting motor uses EBA-11 Bendix Drive with sub parts as noted below.

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, Drive
EB-8705	1	SPRING, DRIVE
EB-8734	1	Ring, Take-Up
EBA-1111	1	Shaft & Pinion

† BRUSH SET, SERVICE MH-1054S.

UNIT	APPLICATION
ML-4176,A	Gray Marine

(Issued 3-6-50)

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Equipment & Parts List Binder

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



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4177 STARTING MOTOR PARTS LIST

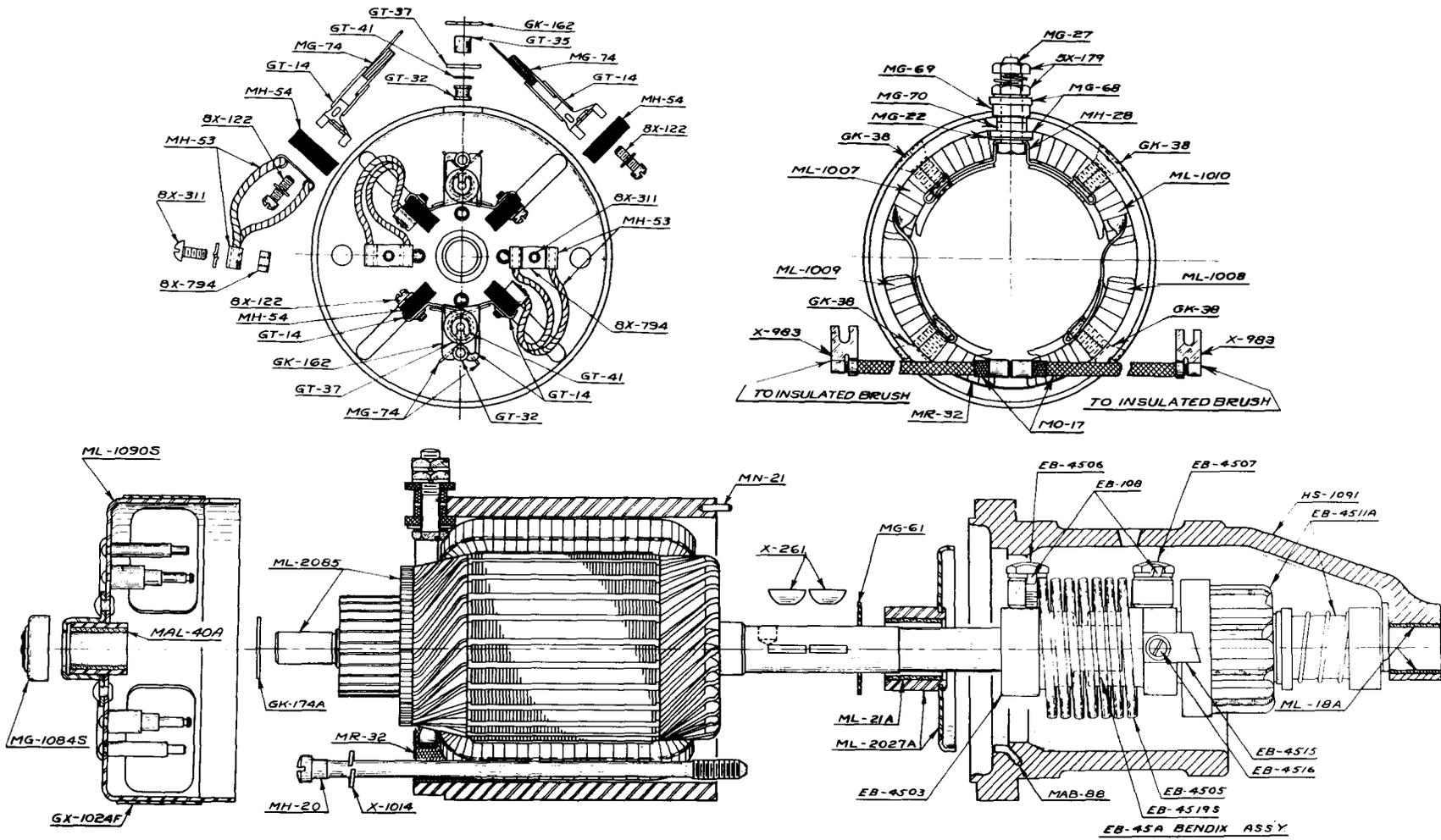
ML-4177

Frame & Field Assembly With Terminal Stud & Parts Used With				Armature Assembly & Parts Used With										
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part					
		1	2	3	4	5			1	2	3	4	5	
MH-20	2	Bolt, Thru					GK-174A	1	Washer, Thrust, Armature Shaft, C.E.					
(ML-2025)	1	Frame & Field Assy.					MG-61	1	Washer, Thrust, Arm. Shaft, Int.					
GK-38	4	Screw, Pole Shoe					ML-2085	1	Armature					
MG-22	1	Washer, Plain, Term. Stud, Inner					X-261	2	Key, Woodruff, #6					
MG-27	1	Stud, Terminal, 3/8-16					<u>Micellaneous Parts</u>							
MG-68	2	Washer, Ins., Term. Stud					EB-45A	1	Bendix Drive Assy.					
MG-69	1	Bushing, Ins., Term. Stud, Outer					EB-108	2	Washer, Lock					
MG-70	1	Bushing, Ins., Term. Stud, Inner					EB-4503	1	Head, Driving					
MH-28	1	Connector, Term. Stud to Coil					EB-4505	1	Spring, Drive					
ML-1007	1	Coil, Field, U.L.					EB-4506	1	Screw, Spring, Head					
ML-1008	1	Coil, Field, L.R.					EB-4507	1	Screw, Spring, Shaft					
ML-1009	1	Coil, Field, L.L.					EB-4511A	1	Shaft & Pinion					
ML-1010	1	Coil, Field, U.R.					EB-4515	1	Stop, Pinion					
MN-21	1	Pin, Dowel, Housing Locating					EB-4516	1	Screw, Pinion Stop					
MO-17	1	Lead Assy., Field Coil					EB-4519S	1	Sleeve, Compression					
X-983	2	Terminal					GX-1024F	1	Band, Head					
MR-32	1	Insulation, Field Connection					HS-1091	1	Housing Assy., Pinion					
5X-179	2	Nut, Term. Stud, Hex., 3/8-16					MAB-88	1	Pin, Dowel					
X-201	2	Washer, Lock, Term. Stud, 3/8					ML-18A	1	Bearing, Absorbent Bronze					
X-1014	2	Washer, Lock, Thru Bolt, 5/16					ML-2027A	1	Bearing Assy., Intermediate					
<u>Comm. End Head Assembly & Parts Used With</u>						ML-21A	1	Bearing, Absorbent Bronze						
MG-1084S	1	Cover, Bearing, Comm. End					X-715	1	Screw, Cover Band, Rd. hd., #10-32x1 1/4					
(ML-2090)	1	Head Assy., Comm. End					8X-794	1	Nut, Cover Band, Square, #10-32 1 2 3 4 5					
GK-162	2	Insulation, Spacing, Brush Holder					(Issued 3-7-44)							
GT-14	4	Holder, Brush												
GT-32	2	Insulator, Spring												
GT-35	2	Bushing, Insulating												
GT-37	2	Washer, Insulating												
GT-41	2	Clip, Brush Post												
MG-74	4	Spring, Brush												
MH-53	2	Connector, Ground												
MH-54	4	Brush												
ML-1090S	1	Head Assy., Partial, Comm. End												
MAL-40A	1	Bearing, Absorbent Bronze												
8X-122	4	Screw, Brush, Fil. hd., #8-32x1/2												
X-195	4	Washer, Lock, Brush Sc., #8												
X-196	2	Washer, Lock, Grd. Sc., #10												
8X-311	2	Screw, Ground, Rd. hd., #10-32x3/8												
8X-794	2	Nut, Ground Sc., Square, #10-32												
		1	2	3	4	5								

Printed in U. S. A. 203

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4178 STARTING MOTOR PARTS LIST

ML-4178

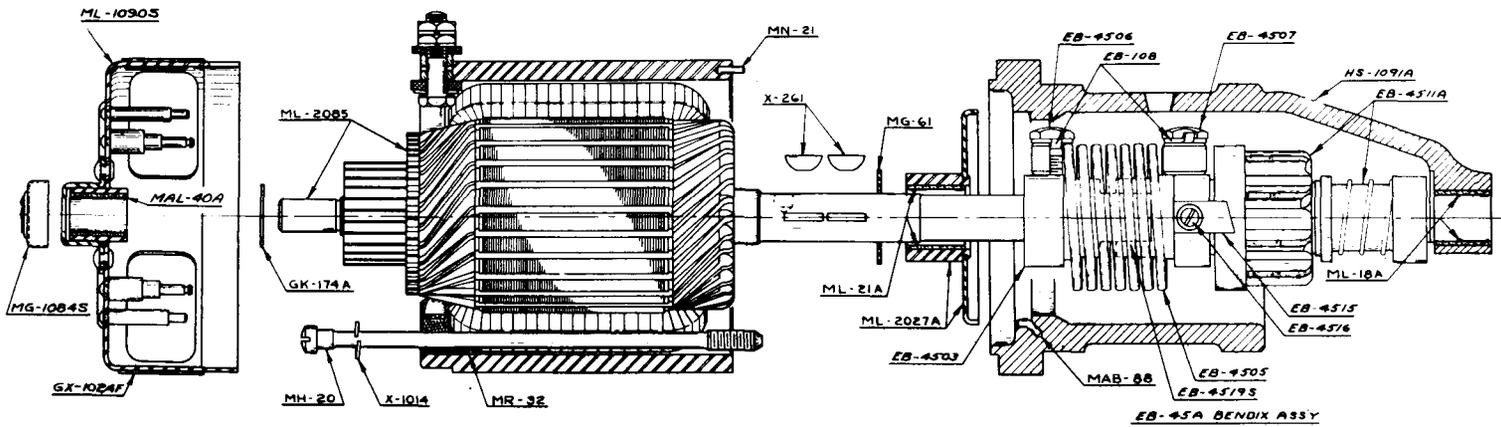
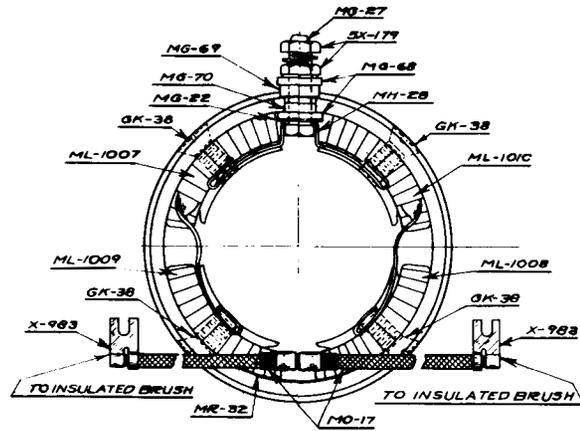
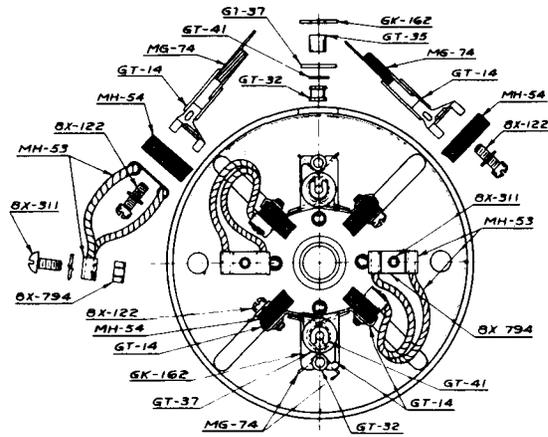
Frame & Field Assembly With Terminal Stud & Parts Used With					Armature Assembly & Parts Used With								
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
MH-20	2	Bolt, Thru					GK-174A	1	Washer, Thrust, Armature Shaft, C.E.				
(ML-2025)	1	Frame & Field Assy.					MG-61	1	Washer, Thrust, Arm. Shaft, Int.				
GK-38	4	Screw, Pole Shoe					ML-2085	1	Armature				
MG-22	1	Washer, Plain, Term. Stud, Inner					X-261	2	Key, Woodruff, #6				
MG-27	1	Stud, Terminal, 3/8-16					<u>Micellaneous Parts</u>						
MG-68	2	Washer, Ins., Term. Stud					EB-45A	1	Bendix Drive Assy.				
MG-69	1	Bushing, Ins., Term. Stud, Outer					EB-108	2	Washer, Lock				
MG-70	1	Bushing, Ins., Term. Stud, Inner					EB-4503	1	Head, Driving				
MH-28	1	Connector, Term. Stud to Coil					EB-4505	1	Spring, Drive				
ML-1007	1	Coil, Field, U.L.					EB-4506	1	Screw, Spring, Head				
ML-1008	1	Coil, Field, L.R.					EB-4507	1	Screw, Spring, Shaft				
ML-1009	1	Coil, Field, L.L.					EB-4511A	1	Shaft & Pinion				
ML-1010	1	Coil, Field, U.R.					EB-4515	1	Stop, Pinion				
MN-21	1	Pin, Dowel, Housing Locating					EB-4516	1	Screw, Pinion Stop				
MO-17	1	Lead Assy., Field Coil					EB-4519S	1	Sleeve, Compression				
X-983	2	Terminal					GX-1024F	1	Band, Head				
MR-32	1	Insulation, Field Connection					HS-1091A	1	Housing Assy., Pinion				
5X-179	2	Nut, Term. Stud, Hex., 3/8-16					MAB-88	1	Pin, Dowel				
X-201	2	Washer, Lock, Term. Stud, 3/8					ML-18A	1	Bearing, Absorbent Bronze				
X-1014	2	Washer, Lock, Thru Bolt, 5/16					ML-2027A	1	Bearing Assy., Intermediate				
<u>Comm. End Head Assembly & Parts Used With</u>						ML-21A	1	Bearing, Absorbent Bronze					
MG-1084S	1	Cover, Bearing, Comm. End					X-715	1	Screw, Cover Band, Rd. hd., #10-32x1 1/4				
(ML-2090)	1	Head Assy., Comm. End					8X-794	1	Nut, Cover Band, Square, #10-32				
GK-162	2	Insulation, Spacing, Brush Holder					1 2 3 4 5						
GT-14	4	Holder, Brush					(Issued 3-7-44)						
GT-32	2	Insulator, Spring											
GT-35	2	Bushing, Insulating											
GT-37	2	Washer, Insulating											
GT-41	2	Clip, Brush Post											
MG-74	4	Spring, Brush											
MH-53	2	Connector, Ground											
MH-54	4	Brush											
ML-1090S	1	Head Assy., Partial, Comm. End											
MAL-40A	1	Bearing, Absorbent Bronze											
8X-122	4	Screw, Brush, Fil. hd., #8-32x1/2											
X-195	4	Washer, Lock, Brush Sc., #8											
X-196	2	Washer, Lock, Grd. Sc., #10											
8X-311	2	Screw, Ground, Rd. hd., #10-32x3/8											
8X-794	2	Nut, Ground Sc., Square, #10-32											
		1	2	3	4	5							

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File in
Equipment & Parts List Binder

ML-4178 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4179 STARTING MOTOR PARTS LIST

ML-4179

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MH-20	2	Frame Screw					
(ML-2025)	1	Frame & Field Assy.					
GK-38	4	Pole Piece Screw					
MH-29	4	Pole Piece					
ML-1007	1	Field Coil - U.L.					
ML-1008	1	Field Coil - L.R.					
ML-1009	1	Field Coil - L.L.					
ML-1010	1	Field Coil - U.R.					
MN-21	1	Dowel Pin					
MO-17	1	Field Coil Lead Assy.					
X-983	2	Terminal					
MR-32	1	Field Lead Ins.					
X-1014	2	5/16 Lock Washer					

Terminal Post Assembly & Parts Used With

MH-3028	1	Terminal Post Assy.					
MG-22	1	Plain Steel Washer					
MG-27	1	Terminal Post					
MG-68	2	Insulating Washer					
MG-69	1	Term. Post Cover Ins.					
MG-70	1	Term. Post Frame Ins.					
MH-28	1	Term. Post Connector					
5X-179	2	3/8-16 Hex. Nut					
X-201	2	3/8 Lock Washer					

Comm. End Head Assembly & Parts Used With

MG-61	1	7/8 Plain Washer					
MG-1084S	1	Bearing Cover with Oiler					
(ML-2090)	1	Comm. End Head Assy.					
GK-162	2	Br. Holder Spacing Ins.					
GT-14	4	Brush Holder					
GT-32	2	Spring Insulator					
GT-35	2	Insulating Bushing					
GT-37	2	Insulating Washer					
GT-41	2	Br. Holder Post Clip					
MG-74	4	Brush Spring					
MH-53	2	Ground Connector					
MH-54	4	Brush					
ML-1090S	1	C.E. Head Part Assy.					
ML-1040S	1	C.E. Cap & Brg. Assy.					
MAL-40A	1	Absorbent Bronze Brg.					
8X-1452	4	3/16x5/16 Oval Hd. Rivet					
6X-122	4	#8-32x1/2 Fill.Hd.Screw					
X-195	4	#8 Lock Washer					
X-196	2	#10 Lock Washer					
6X-311	2	#10-32x3/8 Rd. Hd. Screw					
6X-794	2	#10-32 Square Nut					
			1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
GK-174A	1	1/2 Plain Washer					
ML-2035	1	Armature Assembly					
X-261	1	#6 Woodruff Key					
<u>Miscellaneous Parts</u>							
EBA-11	1	Bendix Drive Assy.					
GX-1024	1	Head Band Assy.					
ML-2027A	1	Intermediate Brg. Assy.					
ML-21a	1	Absorbent Eronze Brg.					
PS-1060	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

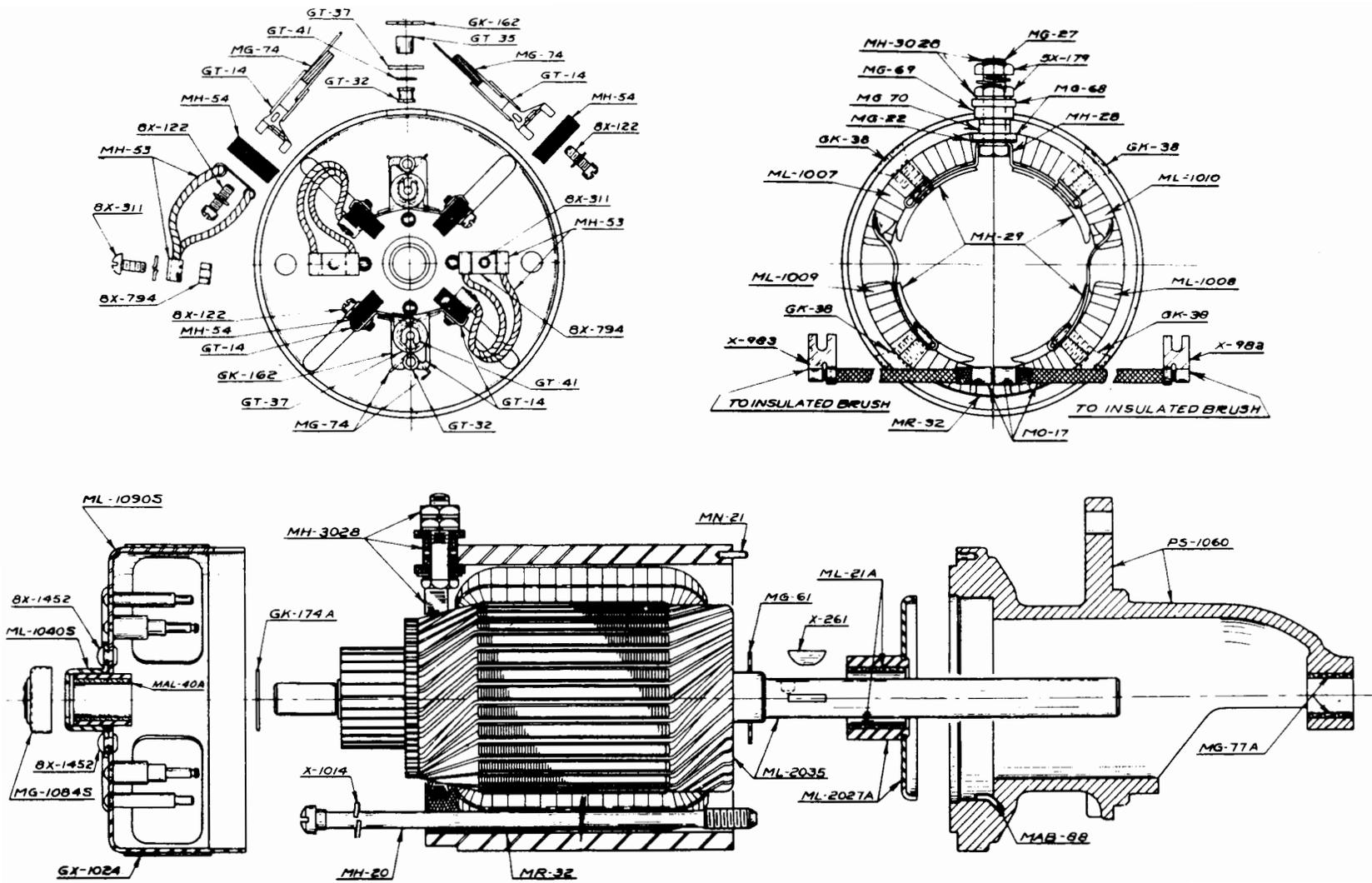
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File in
Equipment & Parts Lists Binder

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ML-4179 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4180 STARTING MOTOR PARTS LIST

ML-4180

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MH-20	2	Frame Screw				
(ML-2025)	1	Frame & Field Assembly				
GK-38	4	Pole Piece Screw				
MH-29	4	Pole Piece				
ML-1007	1	Field Coil - U.L.				
ML-1008	1	Field Coil - L.R.				
ML-1009	1	Field Coil - L.L.				
ML-1010	1	Field Coil - U.R.				
MN-21	1	Dowel Pin				
MO-17	1	Field Coil Lead Assy.				
X-983	2	Terminal				
MR-32	1	Field Lead Ins.				
X-1014	2	5/16 Lock Washer				

Terminal Post Assembly & Parts Used With

MH-3028	1	Terminal Post Assembly				
MG-22	1	Plain Steel Washer				
MG-27	1	Terminal Post				
MG-68	2	Insulating Washer				
MG-69	1	Terminal Post Cover Ins.				
MG-70	1	Terminal Post Frame Ins.				
MH-28	1	Terminal Post Connector				
5X-179	2	3/8-16 Hex. Nut				
X-201	2	3/8 Lock Washer				

Comm. End Head Assembly & Parts Used With

MG-61	1	7/8 Plain Washer				
MG-1084S	1	Bearing Cover with Oiler				
(MH-3075)	1	Comm. End Head Assembly				
GK-162	2	Br. Holder Spacing Ins.				
GT-14	4	Brush Holder				
GT-32	2	Spring Insulator				
GT-35	2	Insulating Bushing				
GT-37	2	Insulating Washer				
GT-41	2	Brush Holder Post Clip				
MG-74	4	Brush Spring				
MH-53	2	Ground Connector				
MH-54	4	Brush				
MH-1075B	1	Comm. End Head Part Assy.				
MG-1036	1	Comm. End Cap & Brg. Assembly				
MR-3	1	Absorbent Bronze Bearing				
8X-245	4	1/8x3/8 Oval Hd. Rivet				
8X-122	4	#8-32x1/2 Fill. Hd. Screw				
X-195	4	#8 Lock Washer				
X-196	2	#10 Lock Washer				
8X-311	2	#10-32x3/8 Rd. Hd. Screw				
8X-794	2	#10-32 Square Nut				
		1	2	3	4	5

Armature Assembly & Parts Used With

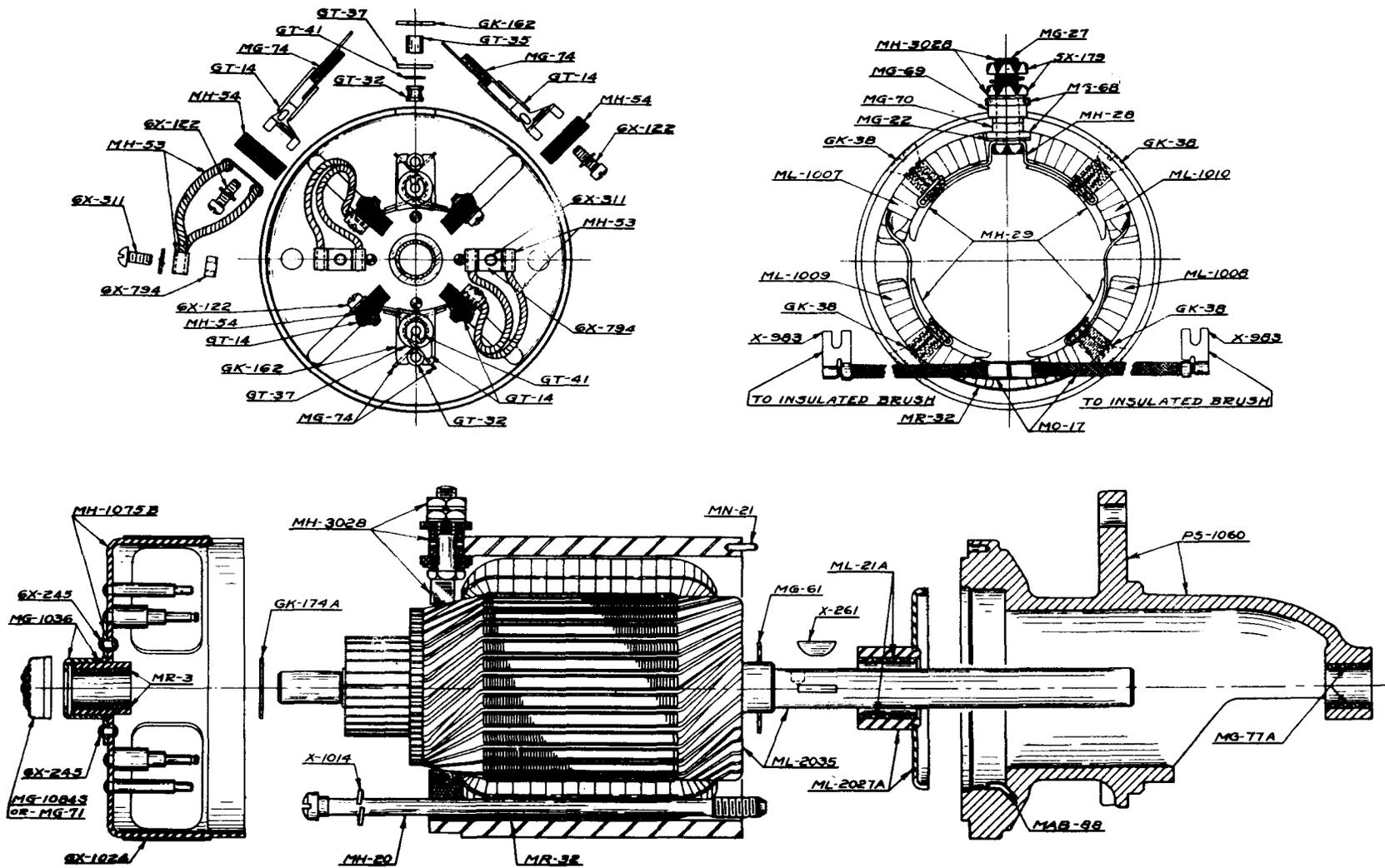
Part No.	No. Used	Name of Part				
		1	2	3	4	5
GK-174A	1	1/2 Plain Washer				
ML-2035	1	Armature Assembly				
X-261	1	#6 Woodruff Key				
<u>Miscellaneous Parts</u>						
EBA-2	1	Bendix Drive Assembly				
GX-1024	1	Head Band Assembly				
ML-2027A	1	Intermediate Brg. Assy.				
ML-21A	1	Absorbent Bronze Brg.				
PS-1060	1	Pinion Housing Assy.				
MAB-88	1	Dowel Pin				
MG-77A	1	Absorbent Bronze Brg.				
X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
8X-794	1	#10-32 Square Nut				
		1	2	3	4	5

(Issued 11-11-35)

Printed in U. S. A.

File in
Equipment & Parts Lists Binder

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



ML-4180 STARTING MOTOR ILLUSTRATION

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4181 STARTING MOTOR PARTS LIST

ML-4181

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MH-20	2					Frame Screw
(ML-3097)	1					Frame & Field Assy.
GK-38	4					Pole Piece Screw
MH-29	4					Pole Piece
ML-1007	1					Field Coil - U.L.
ML-1008	1					Field Coil - L.R.
ML-1009	1					Field Coil - L.L.
ML-1010	1					Field Coil - U.R.
MN-21	1					Dowel Pin
MO-17	1					Field Coil Lead Assy.
X-983	2					Terminal
MR-32	1					Field Connection Ins.
X-1014	2					5/16 Lock Washer

Terminal Post Assembly & Parts Used With

MH-3028	1	Terminal Post Assy.
MG-22	1	Plain Steel Washer
MG-27	1	Terminal Post
MG-68	2	Insulating Washer
MG-69	1	Term. Post Cover Ins.
MG-70	1	Term. Post Frame Ins.
MH-28	1	Term. Post Connector
5X-179	2	3/8-16 Hex. Nut
X-201	2	3/8 Lock Washer

Comm. End Head Assembly & Parts Used With

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

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GK-174A	1					1/2 Plain Washer
MG-61	1					7/8 Plain Washer
ML-2035	1					Armature Assembly
X-261	1					#6 Woodruff Key

Switch Assembly & Parts Used With

SS-111R	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-51	1	Bendix Drive Assy.
GX-1024	1	Head Band Assembly
ML-2027A	1	Intermediate Brg. Assy.
ML-21A	1	Absorbent Bronze Brg.
PS-1060A	1	Pinion Housing Assy.
MAB-88	1	Dowel Pin
MG-77A	1	Absorbent Bronze Brg.
X-715	1	#10-32x1 1/4 Rd. Hd. Screw
8X-794	1	#10-32 Square Nut
		1 2 3 4 5

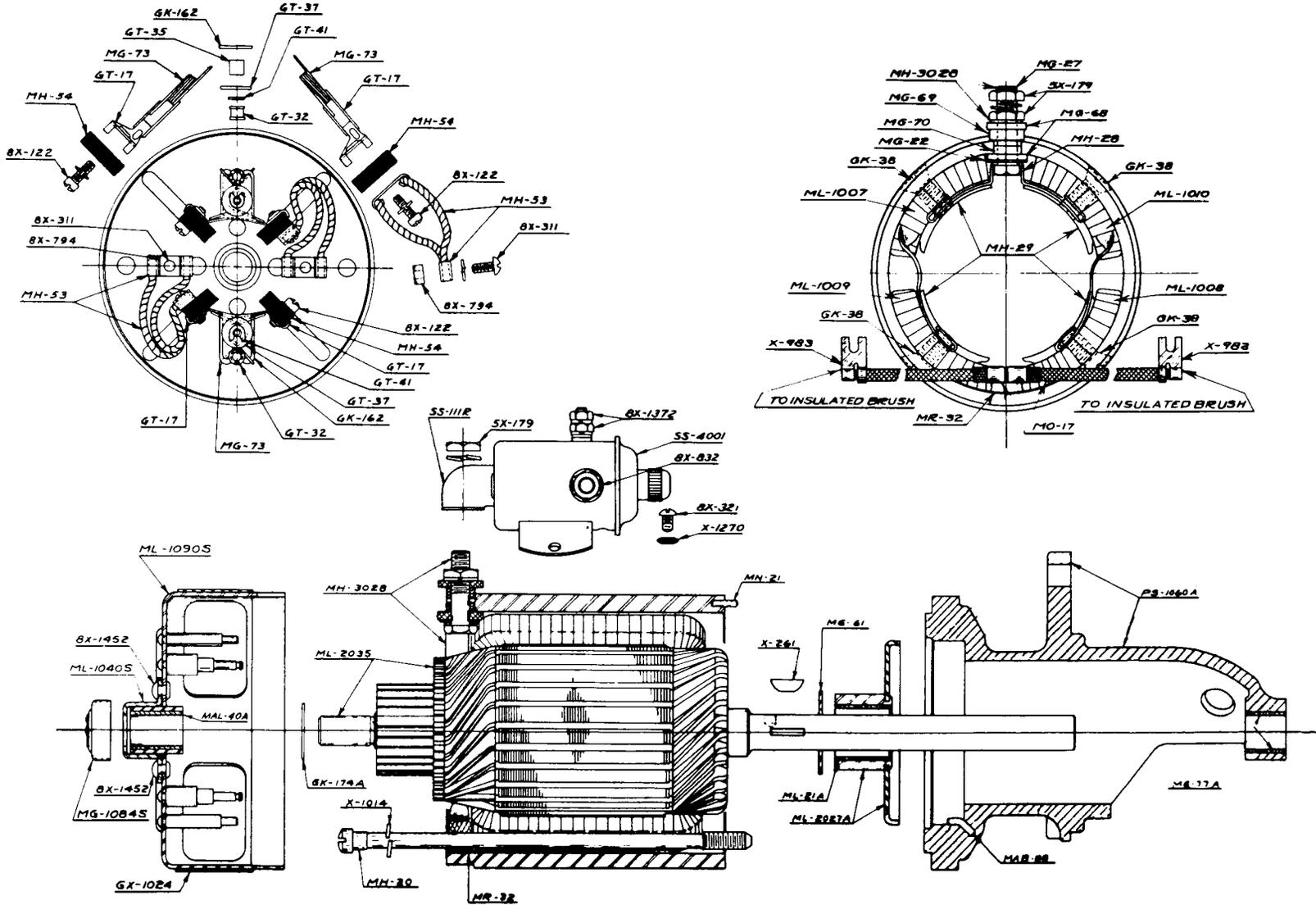
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"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ML-4181 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4185 STARTING MOTOR PARTS LIST

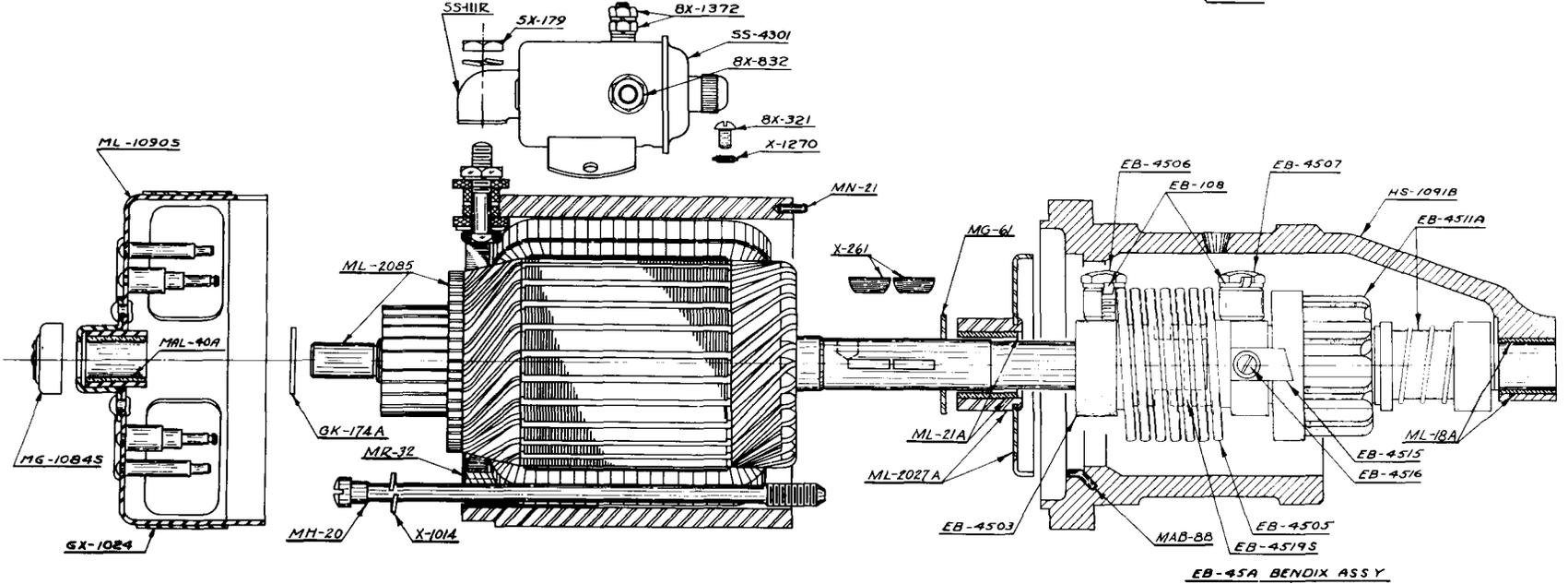
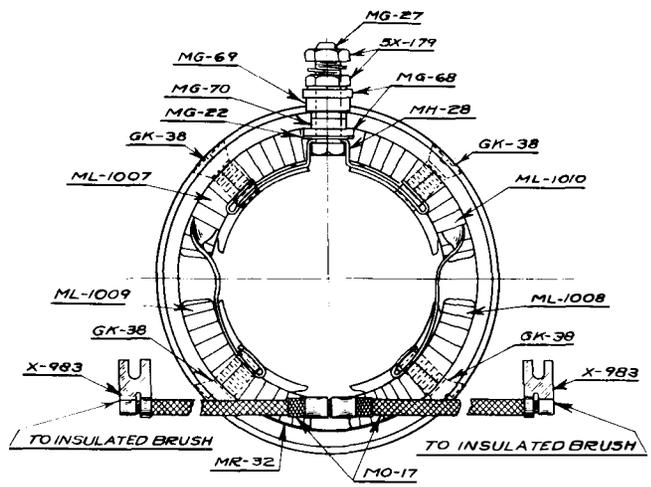
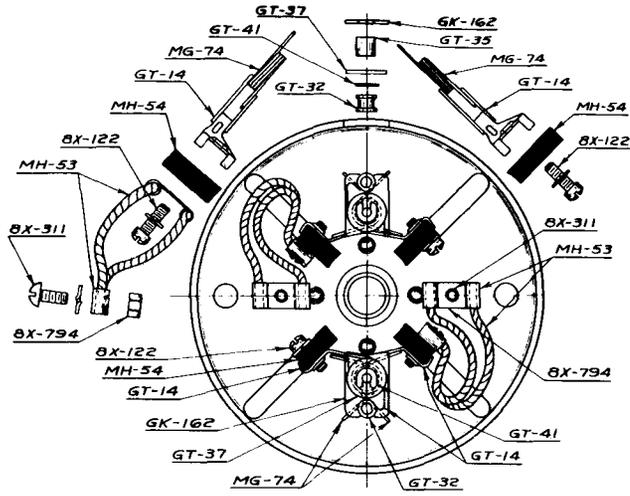
ML-4185

Frame & Field Assembly With Terminal Stud & Parts Used With					Armature Assembly & Parts Used With				
Part No.	No. Used	Name of Part			Part No.	No. Used	Name of Part		
		1	2	3 4 5			1	2 3 4 5	
MH-20	2	Bolt, Thru			GK-174A	1	Washer, Thrust, Armature Shaft, C.E.		
(ML-2097)	1	Frame & Field Assy.			MG-61	1	Washer, Thrust, Arm. Shaft, Int.		
GK-38	4	Screw, Pole Shoe			ML-2085	1	Armature		
MG-22	1	Washer, Plain, Term. Stud, Inner			X-261	2	Key, Woodruff, #6		
MG-27	1	Stud, Terminal, 3/8-16			Switch Assembly & Parts Used With				
MG-68	2	Washer, Ins., Term. Stud			SS-111R	1	Connector		
MG-69	1	Bushing, Ins., Term. Stud, Outer			SS-4301	1	Switch, Starting, Solenoid		
MG-70	1	Bushing, Ins., Term. Stud, Inner			X-196	1	Washer, Lock, #10		
MH-28	1	Connector, Term. Stud to Coil			8X-832	2	Nut, Hex., 5/16-24		
ML-1007	1	Coil, Field, U.L.			X-1014	2	Washer, Lock, 5/16		
ML-1008	1	Coil, Field, L.R.			8X-1372	1	Nut, Hex., #10-32		
ML-1009	1	Coil, Field, L.L.			8X-321	2	Screw, Mtg. Switch, Rd. hd., #10-32x5/16		
ML-1010	1	Coil, Field, U.R.			X-1270	2	Washer, Skpf., Switch Mtg. Sc., #10		
MN-21	1	Pin, Dowel, Housing Locating			Miscellaneous Parts				
MO-17	1	Lead Assy., Field Coil			EB-45A	1	Bendix Drive Assy.		
X-983	2	Terminal			EB-108	2	Washer, Lock		
MR-32	1	Insulation, Field Connection			EB-4503	1	Head, Driving		
5X-179	2	Nut, Term. Stud, Hex., 3/8-16			EB-4505	1	Spring, Drive		
X-201	2	Washer, Lock, Term. Stud, 3/8			EB-4506	1	Screw, Spring, Head		
X-1014	2	Washer, Lock, Thru Bolt, 5/16			EB-4507	1	Screw, Spring, Shaft		
Comm. End Head Assembly & Parts Used With					EB-4511A	1	Shaft & Pinion		
MG-1084S	1	Cover, Bearing, Comm. End			EB-4515	1	Stop, Pinion		
(ML-2090)	1	Head Assy., Comm. End			EB-4516	1	Screw, Pinion Stop		
GK-162	2	Insulation, Spacing, Brush Holder			EB-4519S	1	Sleeve, Compression		
GT-14	4	Holder, Brush			GX-1024F	1	Band, Head		
GT-32	2	Insulator, Spring			HS-1091B	1	Housing Assy., Pinion		
GT-35	2	Bushing, Insulating			MAB-88	1	Pin, Dowel		
GT-37	2	Washer, Insulating			ML-18A	1	Bearing, Absorbent Bronze		
GT-41	2	Clip, Brush Post			ML-2027A	1	Bearing Assy., Intermediate		
MG-74	4	Spring, Brush			ML-21A	1	Bearing, Absorbent Bronze		
MH-53	2	Connector, Ground			X-715	1	Screw, Cover Band, Rd. hd., #10-32x1 1/4		
MH-54	4	Brush			8X-794	1	Nut, Cover Band, Square, #10-32		
ML-1090S	1	Head Assy., Partial, Comm. End					1	2	3 4 5
MAL-40A	1	Bearing, Absorbent Bronze					(Issued 3-7-44)		
8X-122	4	Screw, Brush, Fil. hd., #8-32x1/2							
X-195	4	Washer, Lock, Brush Sc., #8							
X-196	2	Washer, Lock, Grd. Sc., #10							
8X-311	2	Screw, Ground, Rd. hd., #10-32x3/8							
8X-794	2	Nut, Ground Sc., Square, #10-32							
		1	2	3 4 5					

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4186 STARTING MOTOR PARTS LIST

ML-4186

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MH-20	2	Frame Screw				
(ML-2025)	1	Frame & Field Assy.				
GK-38	4	Pole Piece Screw				
MH-29	4	Pole Piece				
ML-1007	1	Field Coil - U.L.				
ML-1008	1	Field Coil - L.R.				
ML-1009	1	Field Coil - L.L.				
ML-1010	1	Field Coil - U.R.				
MN-21	1	Dowel Pin				
MO-17	1	Field Coil Lead Assy.				
X-983	2	Terminal				
MR-32	1	Field Lead Insulation				
X-1014	2	5/16 Lock Washer				

Terminal Post Assembly & Parts Used With

MH-3028	1	Terminal Post Assembly				
MG-22	1	Plain Steel Washer				
MG-27	1	Terminal Post				
MG-68	2	Insulating Washer				
MG-69	1	Terminal Post Cover Ins.				
MG-70	1	Terminal Post Frame Ins.				
MH-28	1	Terminal Post Connector				
5X-179	2	3/8-16 Hex. Nut				
X-201	2	3/8 Lock Washer				

Comm. End Head Assembly & Parts Used With

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

Armature Assembly & Parts Used With

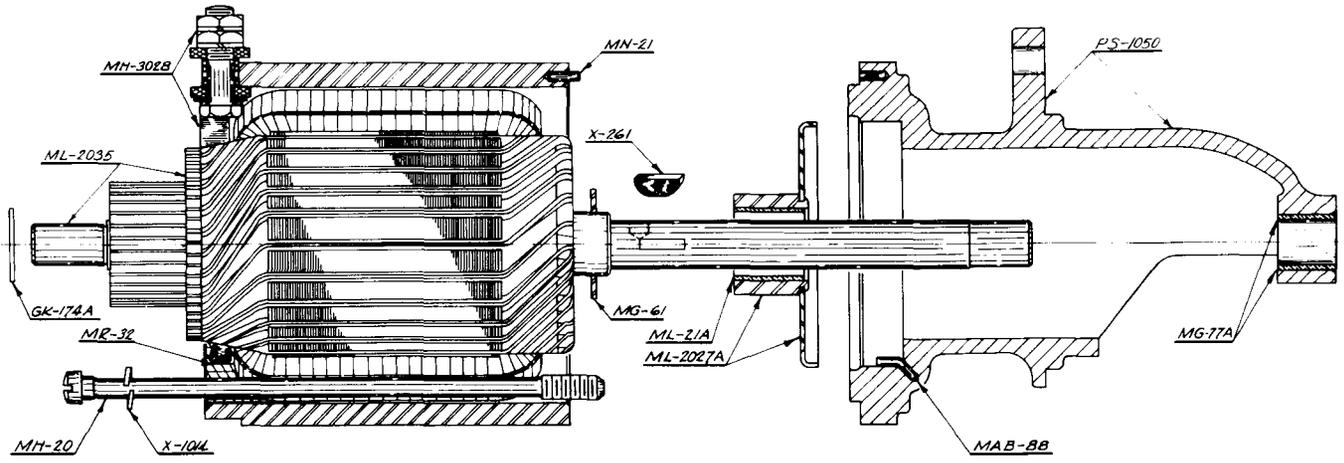
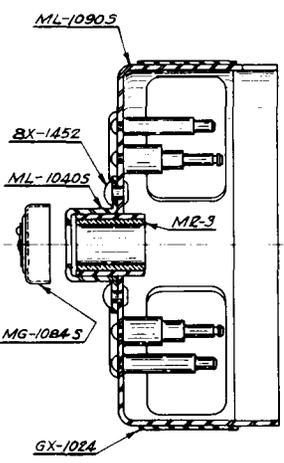
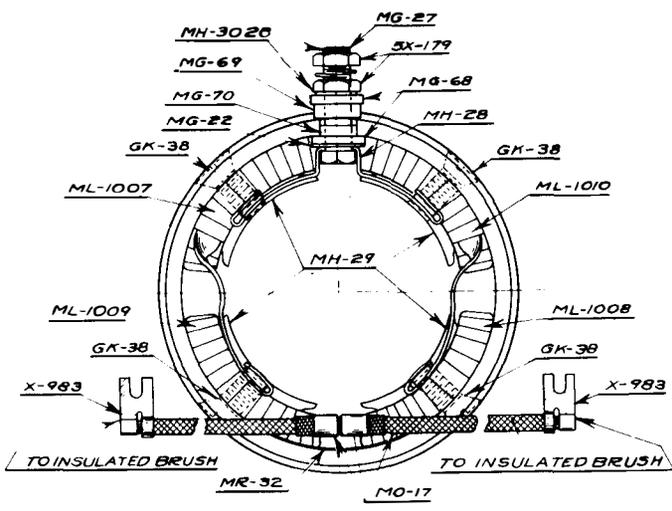
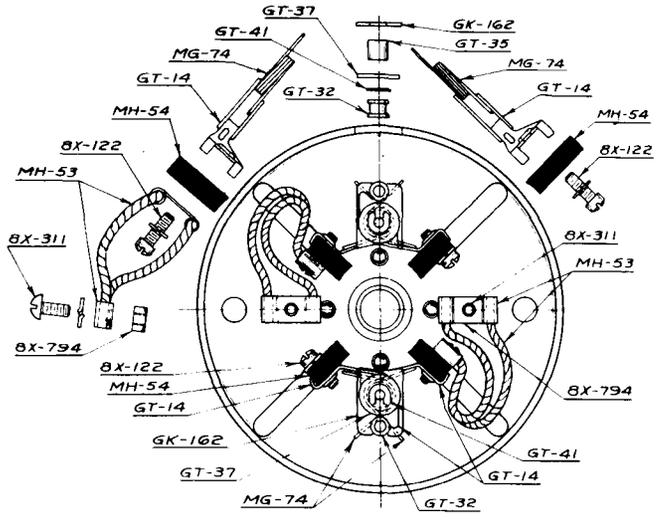
Part No.	No. Used	Name of Part				
		1	2	3	4	5
GK-174A	1	1/2 Plain Washer				
MG-61	1	7/8 Plain Washer				
ML-2035	1	Armature Assembly				
X-261	1	#6 Woodruff Key				
<u>Miscellaneous Parts</u>						
EBA-11	1	Bendix Drive Assy.				
GX-1024	1	Head Band Assembly				
ML-2027A	1	Intermediate Brg. Assy.				
ML-21A	1	Absorbent Bronze Brg.				
PS-1050	1	Pinion Housing Assy.				
MAB-88	1	Dowel Pin				
MG-77A	1	Absorbent Bronze Brg.				
X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
8X-794	1	#10-32 Square Nut				
		1	2	3	4	5

(Issued 1-28-37)

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ML-4186 STARTING MOTOR ILLUSTRATION

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4187 STARTING MOTOR PARTS LIST

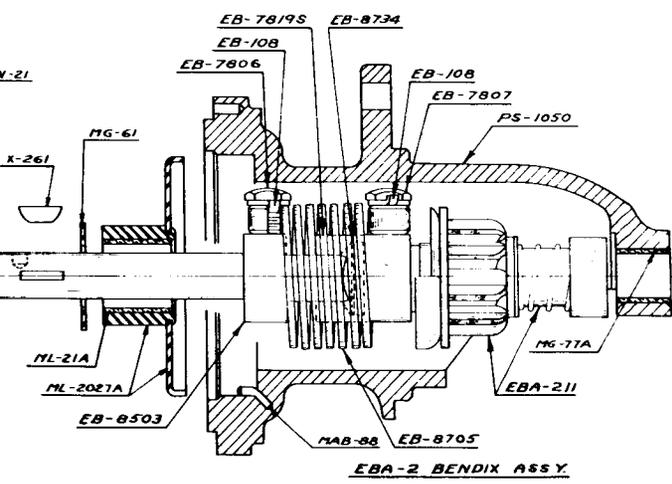
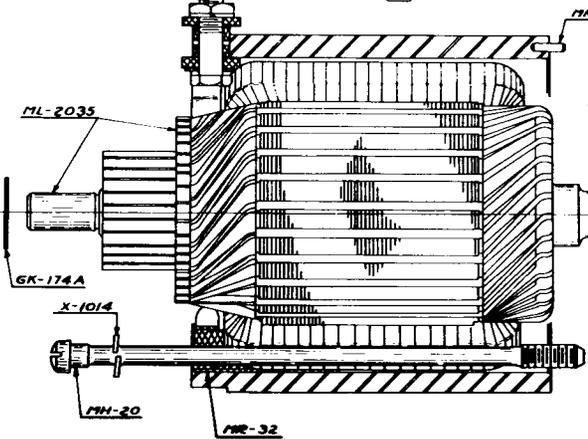
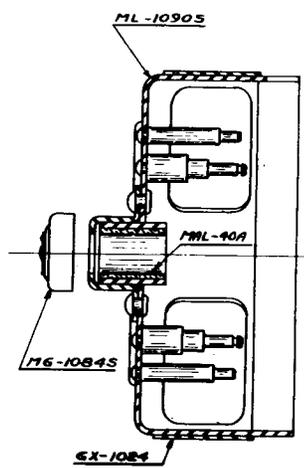
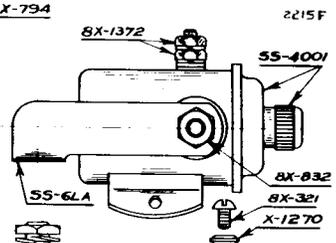
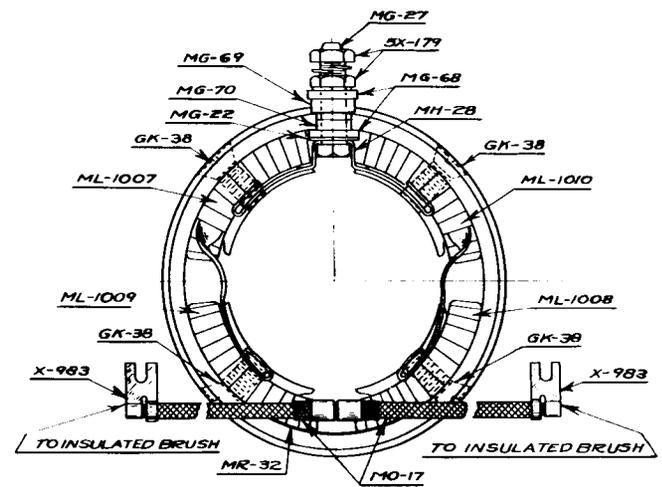
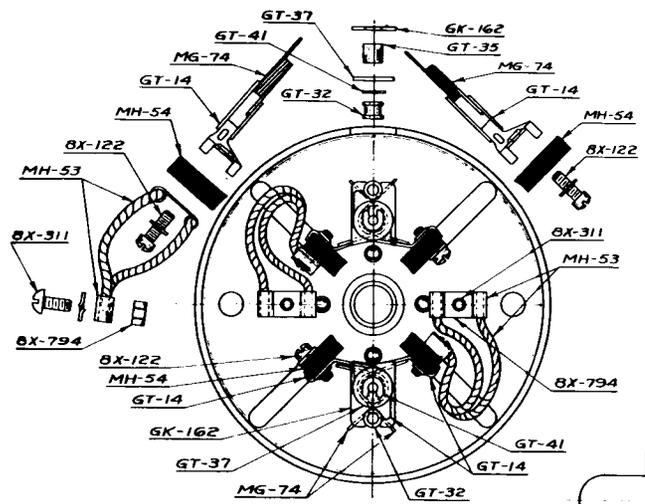
ML-4187

Frame & Field Assembly With Terminal Stud & Parts Used With					Armature Assembly & Parts Used With						
Part No.	No. Used	Name of Part			Part No.	No. Used	Name of Part				
		1	2	3	1		2	3	4	5	
MH-20	2	Bolt, Thru			GK-174A	1	Washer, Thrust, Arm. Shaft, C.E.				
(ML-2097)	1	Frame & Field Assy.			MG-61	1	Washer, Thrust, Arm. Shaft, Int.				
GK-38	4	Screw, Pole Shoe			ML-2035	1	Armature				
MG-22	1	Washer, Plain, Term. Stud, Inner			X-261	1	Key, Woodruff, #6				
MG-27	1	Stud, Terminal, 3/8-16			Switch Assembly & Parts Used With						
MG-68	2	Washer, Ins., Term. Stud			SS-6LA	1	Connector				
MG-69	1	Bushing, Ins., Term. Stud, Outer			SS-4001	1	Solenoid Starting Switch				
MG-70	1	Bushing, Ins., Term. Stud, Inner			12X-196	1	Washer, Lock, #10				
MH-28	1	Connector, Term. Stud to Coil			8X-832	2	Nut, Hex., 5/16-24				
ML-1007	1	Coil, Field, U.L.			12X-1014	2	Washer, Lock, 5/16				
ML-1008	1	Coil, Field, L.R.			8X-1372	1	Nut, Hex., #10-32				
ML-1009	1	Coil, Field, L.L.			8X-321	2	Screw, Mtg. Switch, Rd. hd., #10-32x5/16				
ML-1010	1	Coil, Field, U.R.			X-1270	2	Washer, Skpf., Switch Mtg. Sc., #10				
MN-21	1	Pin, Dowel, Housing Locating			Miscellaneous Parts						
MO-17	1	Lead Assy., Field Coil			EBA-2	1	Bendix Drive Assy.				
X-983	2	Terminal			EB-108	2	Washer, Lock				
MR-32	1	Insulation, Field Connection			EB-7806	1	Screw, Spring, Head				
5X-179	2	Nut, Term. Stud, Hex., 3/8-16			EB-7807	1	Screw, Spring, Shaft				
X-201	2	Washer, Lock, Term. Stud, 3/8			EB-7819S	1	Sleeve, Compression				
X-1014	2	Washer, Lock, Thru Bolt, 5/16			EB-8503	1	Head, Drive				
Comm. End Head Assembly & Parts Used With					EB-8705	1	Spring, Drive				
MG-1084S	1	Cover, Bearing, Comm. End			EB-8734	1	Ring, Take up				
(ML-2090)	1	Head Assy., Comm. End			EBA-211	1	Shaft & Pinion				
GK-162	2	Insulation, Spacing, Brush Holder			GX-1024	1	Band, Head				
GT-14	4	Holder, Brush			ML-2027A	1	Bearing Assy., Intermediate				
GT-32	2	Insulator, Spring			ML-21A	1	Bearing, Absorbent Bronze				
GT-35	2	Bushing, Insulating			PS-1050	1	Housing Assy., Pinion				
GT-37	2	Washer, Insulating			MAB-88	1	Pin, Dowel				
GT-41	2	Clip, Brush Post			MG-77A	1	Bearing, Absorbent Bronze				
MG-74	4	Spring, Brush			X-715	1	Screw, Cover Band, Rd. hd., #10-32x1 1/4				
MH-53	2	Connector, Ground			8X-794	1	Nut, Cover Band, Square, #10-32				
MH-54	4	Brush					1	2	3	4	5
ML-1090S	1	Head Assy., Partial, Comm. End					(Issued 3-7-44)				
MAL-40A	1	Bearing, Absorbent Bronze									
8X-122	4	Screw, Brush, Fil. hd., #8-32x1/2									
X-195	4	Washer, Lock, Brush Sc., #8									
X-196	2	Washer, Lock, Grd. Sc., #10									
8X-311	2	Screw, Ground, Rd. hd., #10-32x3/8									
8X-794	2	Nut, Ground Sc., Square, #10-32									
		1	2	3	4	5					

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EBA-2 BENDIX ASSY.

ML-4187 STARTING MOTOR ILLUSTRATION

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4191 STARTING MOTOR PARTS LIST

ML-4191

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
LH-20	2	Frame Screw				
(ML-2025)	1	Frame & Field Assy.				
GK-38	4	Pole Piece Screw				
MH-29	4	Pole Piece				
ML-1007	1	Field Coil - U.L.				
ML-1008	1	Field Coil - L.R.				
ML-1009	1	Field Coil - L.L.				
ML-1010	1	Field Coil - U.R.				
MN-21	1	Dowel Pin				
MO-17	1	Field Coil Lead Assy.				
X-983	2	Terminal				
MR-32	1	Field Lead Ins.				
X-1014	2	5/16 Lock Washer				

Terminal Post Assembly & Parts Used With

MH-3028	1	Terminal Post Assy.				
MG-22	1	Plain Steel Washer				
MG-27	1	Terminal Post				
MG-68	2	Insulating Washer				
MG-69	1	Term. Post Cover Ins.				
MG-70	1	Term. Post Frame Ins.				
MH-28	1	Term. Post Connector				
5X-179	2	3/8-16 Hex. Nut				
X-201	2	3/8 Lock Washer				

Comm. End Head Assembly & Parts Used With

MG-1084S	1	Bearing Cover with Oiler				
(ML-2090)	1	Comm. End Head Assy.				
GK-162	2	Br. Holder Spacing Ins.				
GT-14	4	Brush Holder				
GT-32	2	Spring Insulator				
GT-35	2	Insulating Bushing				
GT-37	2	Insulating Washer				
GT-41	2	Br. Holder Post Clip				
MG-74	4	Brush Spring				
MH-57	2	Ground Connector				
MH-54	4	Brush				
ML-1090S	1	C.E. Head Part Assy.				
ML-1040S	1	C.E. Cap & Brg. Assy.				
MAL-40A	1	Absorbent Bronze Bearing				
8X-1452	4	3/16x5/16 Oval Hd. Rivet				
8X-122	4	#8-32x1/2 Fill. Hd. Sc.				
X-195	4	#8 Lock Washer				
X-196	2	#10 Lock Washer				
8X-311	2	#10-32x3/8 Rd. Hd. Sc.				
8X-794	2	#10-32 Square Nut				
	1	2	3	4	5	

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GK-174A	1	1/2 Plain Washer				
MG-61	1	7/8 Plain Washer				
ML-2035	1	Armature Assembly				
X-261	1	#6 Woodruff Key				
<u>Miscellaneous Parts</u>						
EBA-11	1	Bendix Drive Assy.				
GX-1024	1	Head Band Assembly				
ML-2027A	1	Intermediate Brg. Assy.				
ML-21A	1	Absorbent Bronze Brg.				
PS-1059B	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

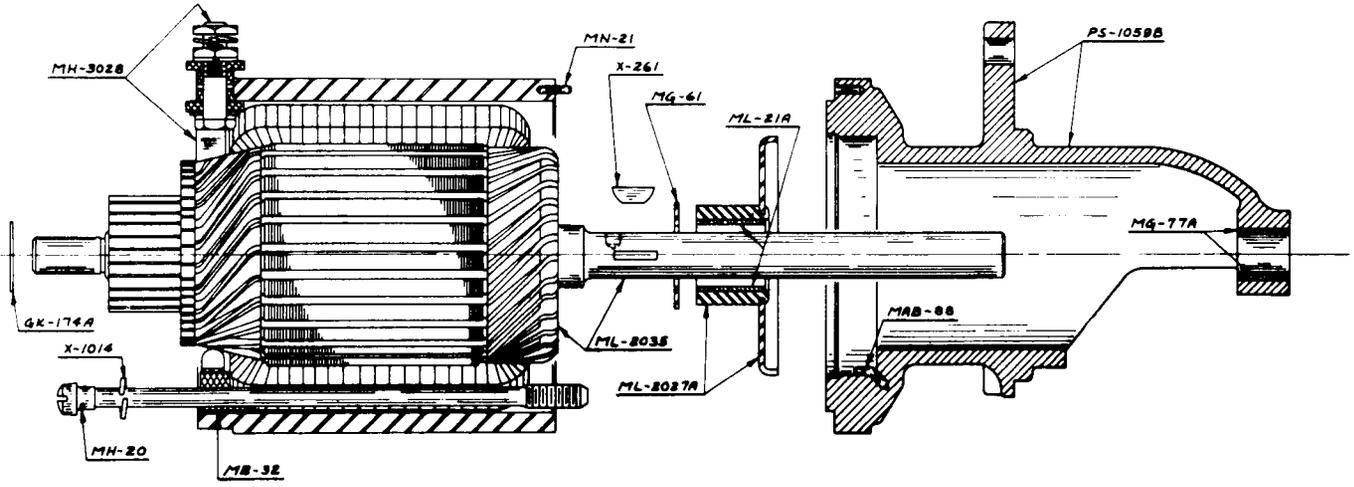
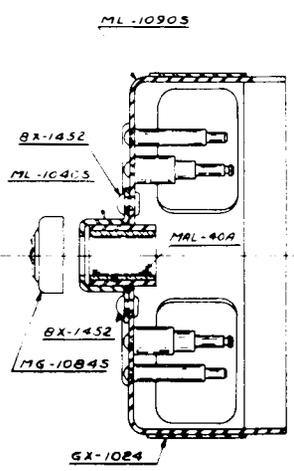
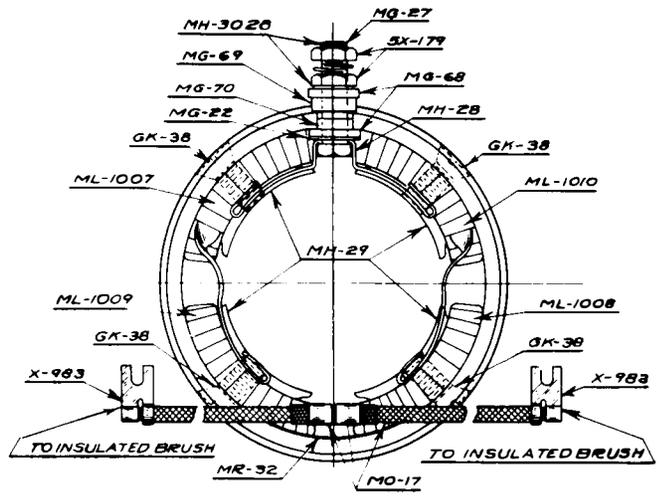
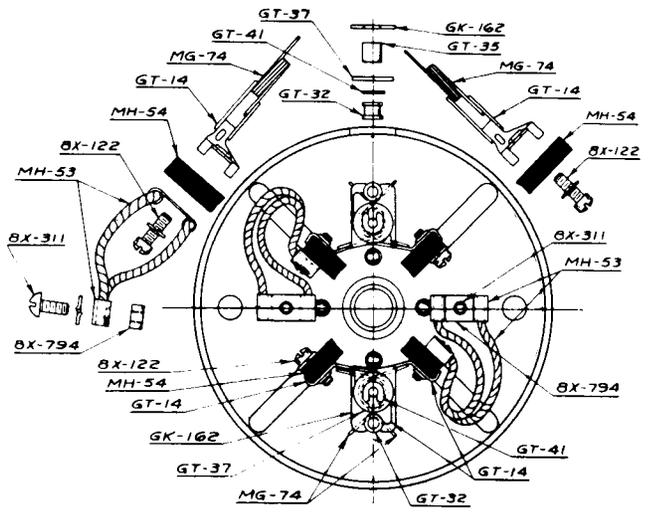
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ML-4191 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4192 STARTING MOTOR PARTS LIST

ML-4192

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MH-20	2					
(ML-2097)	1					
GK-38	4					
MH-29	4					
ML-1007	1					
ML-1008	1					
ML-1009	1					
ML-1010	1					
MN-21	1					
MO-17	1					
X-983	2					
MR-32	1					
X-1014	2					

Terminal Post Assembly & Parts Used With

MH-3028	1					
MG-22	1					
MG-27	1					
MG-68	2					
MG-69	1					
MG-70	1					
MH-28	1					
5X-179	2					
X-201	2					

Comm. End Head Assembly & Parts Used With

MG-1084S	1					
(ML-2090)	1					
GK-162	2					
GT-14	4					
GT-32	2					
GT-35	2					
GT-37	2					
GT-41	2					
MG-74	4					
MH-53	2					
MH-54	4					
ML-1090S	1					
ML-1040S	1					
MAL-40A	1					
EX-1452	4					
EX-122	4					
X-195	4					
X-196	2					
EX-311	2					
EX-794	2					

1 2 3 4 5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GK-174A	1					
MG-61	1					
ML-2035	1					
X-261	1					

Switch Assembly & Parts Used With

SS-111R	1					
SS-4001	1					
12X-196	1					
EX-832	2					
12X-1014	2					
EX-1372	1					
EX-321	2					
X-1270	2					

Miscellaneous Parts

EBA-2	1					
GX-1024	1					
ML-2027A	1					
ML-21A	1					
PS-1059A	1					
MAB-88	1					
MG-77A	1					
X-715	1					
EX-794	1					

1 2 3 4 5

(Issued 3-6-39)

UNIT	APPLICATION
ML-4192	Diamond T, Chris Craft

Printed in U. S. A.

File in
Equipment & Parts Lists Binder

"NOTE: Where part number is 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

ML-4193 STARTING MOTOR PARTS LIST

ML-4193

Frame & Field Assy. & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MH-20	2					Frame Screw
(ML-2097)	1					Frame & Field Assembly
GK-38	4					Pole Piece Screw
MH-29	4					Pole Piece
ML-1007	1					Field Coil - U.L.
ML-1008	1					Field Coil - L.R.
ML-1009	1					Field Coil - L.L.
ML-1010	1					Field Coil - U.R.
MN-21	1					Dowel Pin
MO-17	1					Field Coil Lead Assy.
X-983	2					Terminal
MR-32	1					Field Coil Lead Ins.
X-1014	2		5/16			Lock Washer

Terminal Post Assy. & Parts Used With

MH-3028	1					Terminal Post Assembly
MG-22	1					Plain Steel Washer
MG-27	1					Terminal Post
MG-68	2					Insulating Washer
MG-69	1					Term. Post Cover Ins.
MG-70	1					Term. Post Frame Ins.
MH-28	1					Terminal Post Connector
8X-179	2		3/8-	16		Hex. Nut
12X-201	2		3/8			Lock Washer

Comm. End Head Assy. & Parts Used With

MG-1084S	1					Bearing Cover with Oiler
(ML-2090)	1					Comm. End Head Assembly
GK-162	2					Br. Holder Spacing Ins.
GT-14	4					Brush Holder
GT-32	2					Spring Insulator
GT-35	2					Insulating Bushing
GT-37	2					Insulating Washer
GT-41	2					Br. Holder Post Clip
MG-74	4					Brush Spring
MH-53	2					Ground Connector
MH-54	4					BRUSH
ML-1090S	1					C. E. Head Part Assembly
ML-1040S	1					C.E. Cap & Brg. Assy.
MAL-40A	1					Absorbent Bronze Bearing
8X-1452	4		3/16x5/16			Oval Hd. Rivet
8X-122	4		#8-	32x1/2		Fill. Hd. Sc.
X-195	4		#8			Lock Washer
X-196	2		#10			Lock Washer
8X-311	2		#10-	32x3/8		Rd. Hd. Screw
8X-794	2		#10-	32		Square Nut
		1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MG-61	2					7/8 Plain Washer
ML-2085	1					ARMATURE ASSEMBLY
X-261	2					#6 Woodruff Key

Switch Assembly & Parts Used With

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

Miscellaneous Parts

EB-45A	1					BENDIX DRIVE ASSEMBLY
EB-108	2					Lock Washer
EB-4503	1					Driving Head
EB-4505	1					DRIVE SPRING
EB-4506	1					Head Spring Screw
EB-4507	1					Shaft Spring Screw
EB-4511A	1					S-A Assembly
EB-4515	1					Pinion Back Stop
EB-4516	1					Pinion Back Stop Sc.
EB-4519S	1					Compression Sleeve
GX-1024F	1					Head Band Assembly
ML-95	1					Lock Spring Ring
ML-1094	1					Intermediate Plate Assy.
ML-21A	1					ABSORBENT BRONZE BRG.
PS-1081	1					Pinion Housing Assy.
ML-18	1					Bronze Graphite Brg.
MN-21	1					Dowel Pin
X-489	1		1/4			Oiler - Press in Type
8X-716	1		#8-	32x1 1/8		Rd. Hd. Screw
8X-1410	1		#8-	32		Square Nut
		1	2	3	4	5

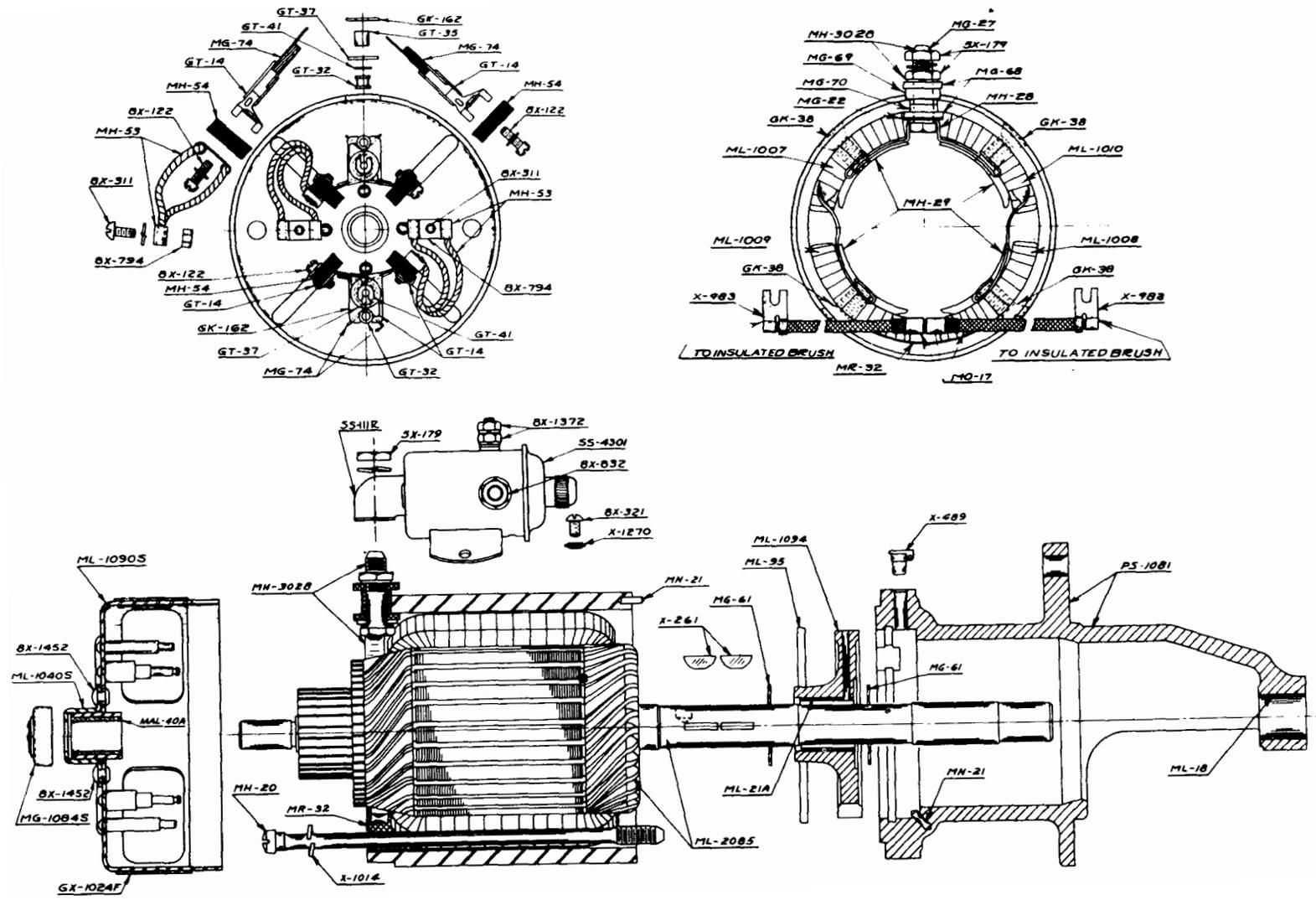
(Issued 4-3-40)

UNIT	APPLICATION
ML-4193	Koehring, Hill Diesel

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."



ML-4193 STARTING MOTOR ILLUSTRATION

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4196 STARTING MOTOR PARTS LIST

ML-4196

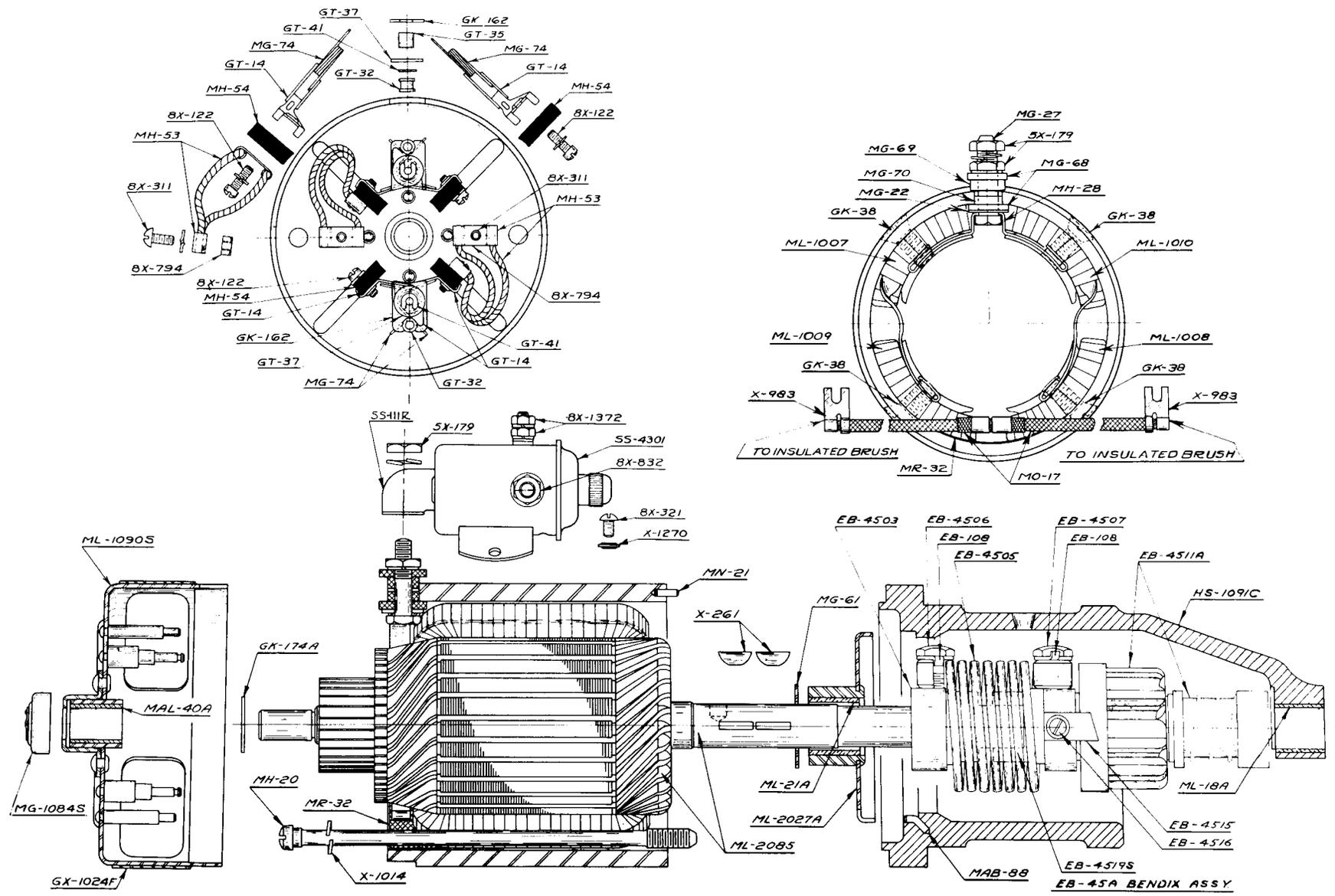
Frame & Field Assembly With Terminal Stud & Parts Used With						Armature Assembly & Parts Used With									
Part No.	No. Used	Name of Part						Part No.	No. Used	Name of Part					
			1	2	3	4	5				1	2	3	4	5
MH-20	2	Bolt, Thru						GK-174A	1	Washer, Thrust, Armature Shaft, C.E.					
(ML-2097)	1	Frame & Field Assy.						MG-61	1	Washer, Thrust, Arm. Shaft, Int.					
GK-38	4	Screw, Pole Shoe						ML-2085	1	Armature					
MG-22	1	Washer, Plain, Term. Stud, Inner						X-261	2	Key, Woodruff, #6					
MG-27	1	Stud, Terminal, 3/8-16						Switch Assembly & Parts Used With							
MG-68	2	Washer, Ins., Term. Stud						SS-111R	1	Connector					
MG-69	1	Bushing, Ins., Term. Stud, Outer						SS-4301	1	Switch, Starting, Solenoid					
MG-70	1	Bushing, Ins., Term. Stud, Inner						X-196	1	Washer, Lock, #10					
MH-28	1	Connector, Term. Stud to Coil						8X-832	2	Nut, Hex., 5/16-24					
ML-1007	1	Coil, Field, U.L.						X-1014	2	Washer, Lock, 5/16					
ML-1008	1	Coil, Field, L.R.						8X-1372	1	Nut, Hex., #10-32					
ML-1009	1	Coil, Field, L.L.						8X-321	2	Screw, Mtg. Switch, Rd. hd., #10-32x5/16					
ML-1010	1	Coil, Field, U.R.						X-1274	2	Washer, Skpf., Switch Mtg., #10					
MN-21	1	Pin, Dowel, Housing Locating						Miscellaneous Parts							
MO-17	1	Lead Assy., Field Coil						EB-45A	1	Bendix Drive Assy.					
X-983	2	Terminal						EB-108	2	Washer, Lock					
MR-32	1	Insulation, Field Connection						EB-4503	1	Head, Driving					
5X-179	2	Nut, Term. Stud, Hex., 3/8-16						EB-4505	1	Spring, Drive					
X-201	2	Washer, Lock, Term. Stud, 3/8						EB-4506	1	Screw, Spring, Head					
X-1014	2	Washer, Lock, Thru Bolt, 5/16						EB-4507	1	Screw, Spring, Shaft					
Comm. End Head Assembly & Parts Used With															
MG-1084S	1	Cover, Bearing, Comm. End						EB-4511A	1	Shaft & Pinion					
(ML-2090)	1	Head Assy., Comm. End						EB-4515	1	Stop, Pinion					
GK-162	2	Insulation, Spacing, Brush Holder						EB-4516	1	Screw, Pinion Stop					
GT-14	4	Holder, Brush						EB-4519S	1	Sleeve, Compression					
GT-32	2	Insulator, Spring						GX-1024F	1	Band, Head					
GT-35	2	Bushing, Insulating						HS-1091C	1	Housing Assy., Pinion					
GT-37	2	Washer, Insulating						MAB-88	1	Pin, Dowel					
GT-41	2	Clip, Brush Post						ML-18A	1	Bearing, Absorbent Bronze					
MG-74	4	Spring, Brush						ML-2027A	1	Bearing Assy., Intermediate					
MH-53	2	Connector, Ground						ML-21A	1	Bearing, Absorbent Bronze					
MH-54	4	Brush						X-715	1	Screw, Cover Band, Rd. hd., #10-32x1 1/4					
ML-1090S	1	Head Assy., Partial, Comm. End						8X-794	1	Nut, Cover Band, Square, #10-32					
MAL-40A	1	Bearing, Absorbent Bronze													
8X-122	4	Screw, Brush, Fil. hd., #8-32x1/2													
X-195	4	Washer, Lock, Brush Sc., #8													
X-196	2	Washer, Lock, Grd. Sc., #10													
8X-311	2	Screw, Ground, Rd. hd., #10-32x3/8													
8X-794	2	Nut, Ground Sc., Square, #10-32													
			1	2	3	4	5								

(Issued 3-7-44)

Printed in U. S. A.

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

File in
Equipment & Parts List Binder



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4199 STARTING MOTOR PARTS LIST

ML-4199

Frame & Field Assy. & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MH-20	2	Frame Screw				
(ML-2097)	1	Frame & Field Assembly				
GK-38	4	Pole Piece Screw				
MH-29	4	Pole Piece				
ML-1007	1	Field Coil - U.L.				
ML-1008	1	Field Coil - L.R.				
ML-1009	1	Field Coil - L.L.				
ML-1010	1	Field Coil - U.R.				
MN-21	1	Dowel Pin				
MO-17	1	Field Coil Lead Assy.				
X-983	2	Terminal				
MR-32	1	Field Coil Lead Ins.				
X-1014	2	5/16 Lock Washer				

Terminal Post Assy. & Parts Used With

MH-3028	1	Terminal Post Assembly				
MG-22	1	Plain Steel Washer				
MG-27	1	Terminal Post				
MG-68	2	Insulating Washer				
MG-69	1	Term. Post Cover Ins.				
MG-70	1	Term. Post Frame Ins.				
MH-28	1	Terminal Post Connector				
8X-179	2	3/8-16 Hex. Nut				
12X-201	2	3/8 Lock Washer				

Comm. End Head Assy. & Parts Used With

MG-1084S	1	Bearing Cover with Oiler				
(ML-2090)	1	Comm. End Head Assembly				
GK-162	2	Br. Holder Spacing Ins.				
GT-14	4	Brush Holder				
GT-32	2	Spring Insulator				
GT-35	2	Insulating Bushing				
GT-37	2	Insulating Washer				
GT-41	2	Br. Holder Post Clip				
MG-74	4	Brush Spring				
MH-53	2	Ground Connector				
MH-54	4	BRUSH				
ML-1090S	1	C. E. Head Part Assy.				
ML-1040S	1	C.E. Cap & Brg. Assy.				
MAL-40A	1	Absorbent Bronze Bearing				
8X-1452	4	3/16x5/16 Oval Head Rivet				
8X-122	4	#8-32x1/2 Fill. Hd. Screw				
X-195	4	#8 Lock Washer				
X-196	2	#10 Lock Washer				
8X-311	2	#10-32x3/8 Rd. Hd. Screw				
8X-794	2	#10-32 Square Nut				
		1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GK-174A	1	1/2 Plain Washer				
MG-61	1	7/8 Plain Washer				
ML-2035	1	ARMATURE ASSEMBLY				
X-261	1	#6 Woodruff Key				

Switch Assembly & Parts Used With

SS-111R	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 ASSEMBLY				
EB-108	2	Lock Washer				
EB-7806	1	Hd. Spring Bolt or Screw				
EB-7807	1	Shaft Spring Screw				
EB-7819S	1	Compression Sleeve				
EB-8503	1	Driving Head				
EB-8705	1	DRIVE SPRING				
EB-8734	1	Take-Up Spring				
EBA-211	1	S-A Assembly				
GX-1024	1	Head Band Assembly				
ML-2027A	1	INTERMEDIATE BRG. ASSY.				
ML-21A	1	Absorbent Bronze Brg.				
PS-1165	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 4-3-40)

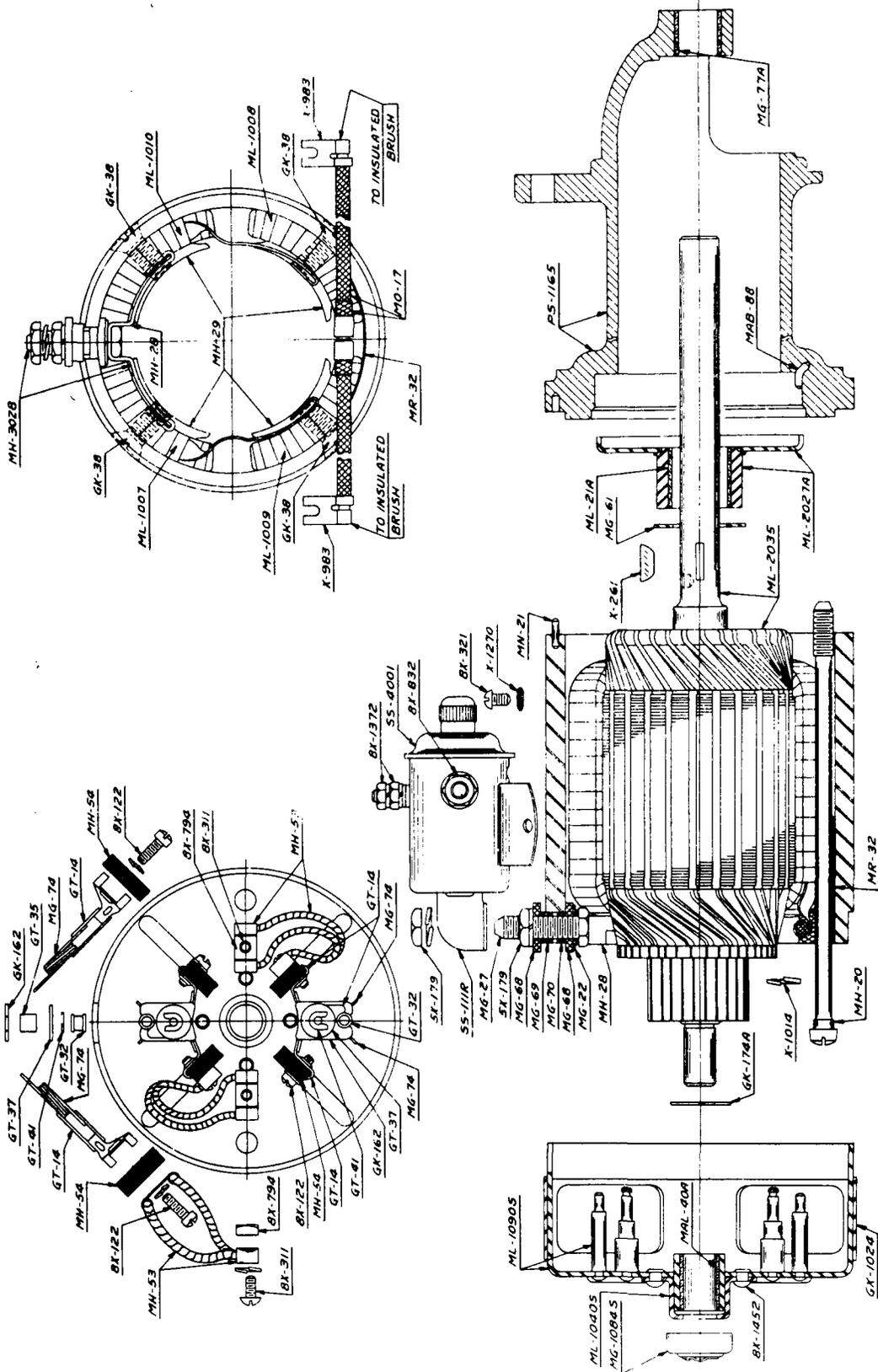
UNIT	APPLICATION
ML-4199	Seagrave Corp.

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."

ML-4199 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4200 STARTING MOTOR PARTS LIST

ML-4200

Frame & Field Assembly & Parts Used With					Armature Assembly & Parts Used With									
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part					
		1	2	3	4	5			1	2	3	4	5	
MH-20	2	Frame Screw					GK-174A	1	1/2 Plain Washer					
(ML-2097)	1	Frame & Field Assy.					MG-61	1	7/8 Plain Washer					
GK-38	4	Pole Piece Screw					ML-2035	1	ARMATURE ASSEMBLY					
MH-29	4	Pole Piece					X-261	1	#6 Woodruff Key					
ML-1007	1	Field Coil - U.L.					Switch Assembly & Parts Used With							
ML-1008	1	Field Coil - L.R.					SS-111R	1	Connector					
ML-1009	1	Field Coil - L.L.					SS-4001	1	SOLENOID STARTING SWITCH					
ML-1010	1	Field Coil - U.R.					12X-196	1	#10 Lock Washer					
MN-21	1	Dowel Pin					EX-832	2	5/16-24 Hex. Nut					
MO-17	1	Field Coil Lead Assy.					12X-1014	2	5/16 Lock Washer					
X-983	2	Terminal					EX-1372	1	#10-32 Hex. Nut					
MR-32	1	Field Coil Lead Ins.					8X-321	2	#10-32x5/16 Rd. Hd. Screw					
X-1014	2	5/16 Lock Washer					X-1270	2	#10 Skpf. Washer					
Terminal Post Assembly & Parts Used With					Miscellaneous Parts									
MH-3028	1	Terminal Post Assembly					EBA-2	1	BENDIX DRIVE ASSY.					
MG-22	1	Plain Steel Washer					EB-108	2	Lock Washer					
MG-27	1	Terminal Post					EB-7806	1	Hd. Sp. Bolt or Screw					
MG-68	2	Insulating Washer					EB-7807	1	Shaft Spring Screw					
MG-69	1	Term. Post Cover Ins.					EB-7819S	1	Compression Sleeve					
MG-70	1	Term. Post Frame Ins.					EB-8503	1	Driving Head					
MH-28	1	Term. Post Connector					EB-8705	1	DRIVING SPRING					
5X-179	2	3/8-16 Hex. Nut					EB-8734	1	Take Up Spring					
X-201	2	3/8 Lock Washer					EBA-211	1	S-A Assembly					
Comm. End Head Assembly & Parts Used With					GX-1024					1 Head Band Assembly				
MG-1084S	1	Bearing Cover with Oiler					ML-2027A	1	INTERMEDIATE BRG. ASSY.					
ML-2090	1	Comm. End Head Assy.					ML-21A	1	Absorbent Bronze Brg.					
GK-162	2	Br. Holder Spacing Ins.					PS-1165	1	Pinion Housing Assy.					
GT-14	4	Brush Holder					MAB-88	1	Dowel Pin					
GT-32	2	Spring Insulator					MG-77A	1	Absorbent Bronze Brg.					
GT-35	2	Insulating Bushing					X-715	1	#10-32x1 1/4 Rd. Hd. Sc.					
GT-37	2	Insulating Washer					EX-794	1	#10-32 Square Nut					
GT-41	2	Br. Holder Post Clip							1	2	3	4	5	
MG-74	4	Brush Spring					(Issued 4-18-40)							
MH-53	2	Ground Connector												
MH-54	4	BRUSH												
ML-1090S	1	C.E. Head Part Assy.												
ML-1040S	1	C.E. Cap & Brg. Assy.												
MAL-40A	1	Absorbent Bronze Bearing												
EX-1452	4	3/16x5/16 Oval Hd. Rivet												
EX-122	4	#8-32x1/2 Fill. Hd. Sc.												
X-195	4	#8 Lock Washer												
X-196	2	#10 Lock Washer												
EX-311	2	#10-32x3/8 Rd. Hd. Sc.												
EX-794	2	#10-32 Square Nut												
		1	2	3	4	5								

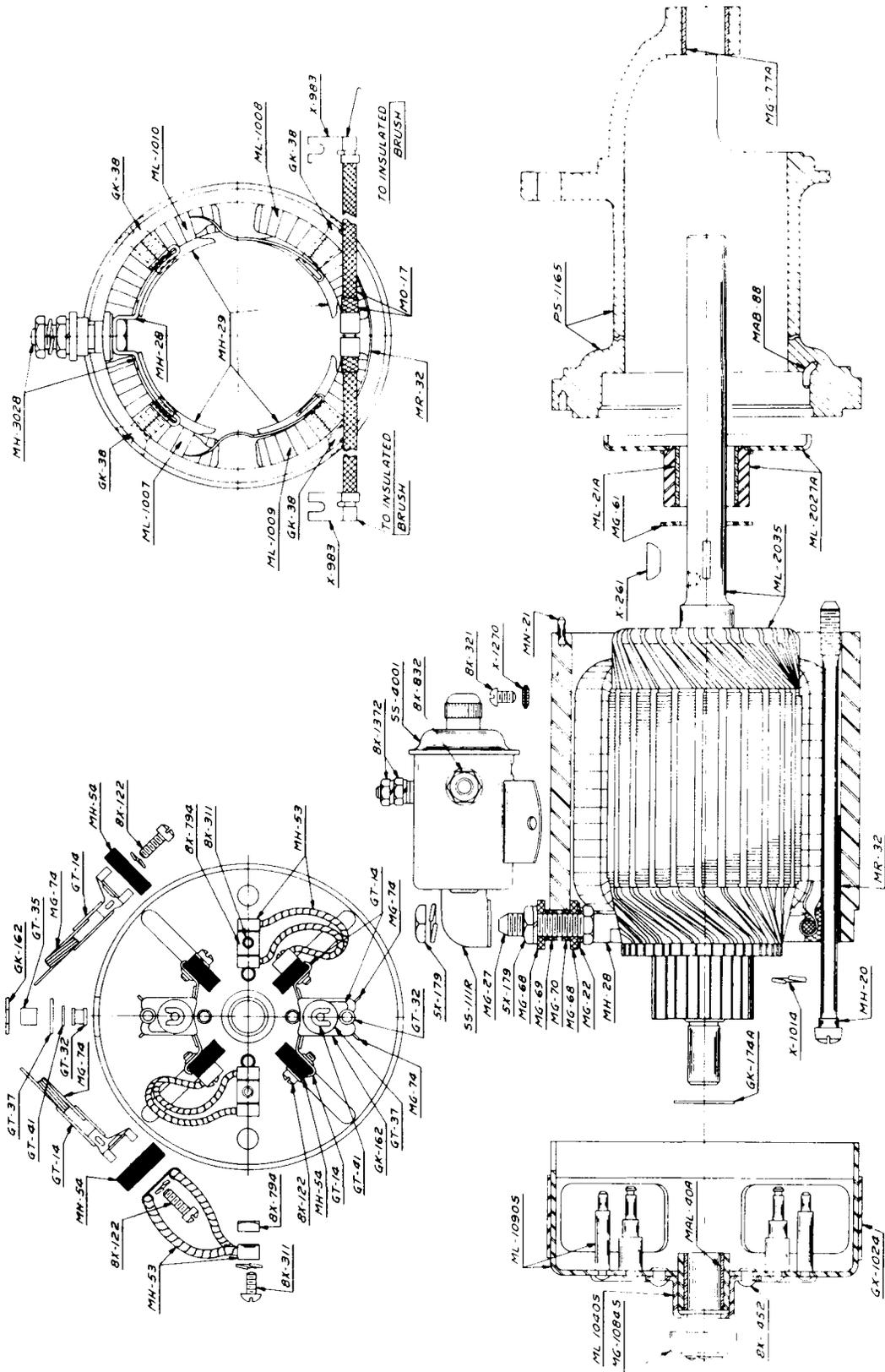
UNIT	APPLICATION
ML-4200	Seagrave Corp.

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."

ML-4200 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4201 STARTING MOTOR PARTS LIST

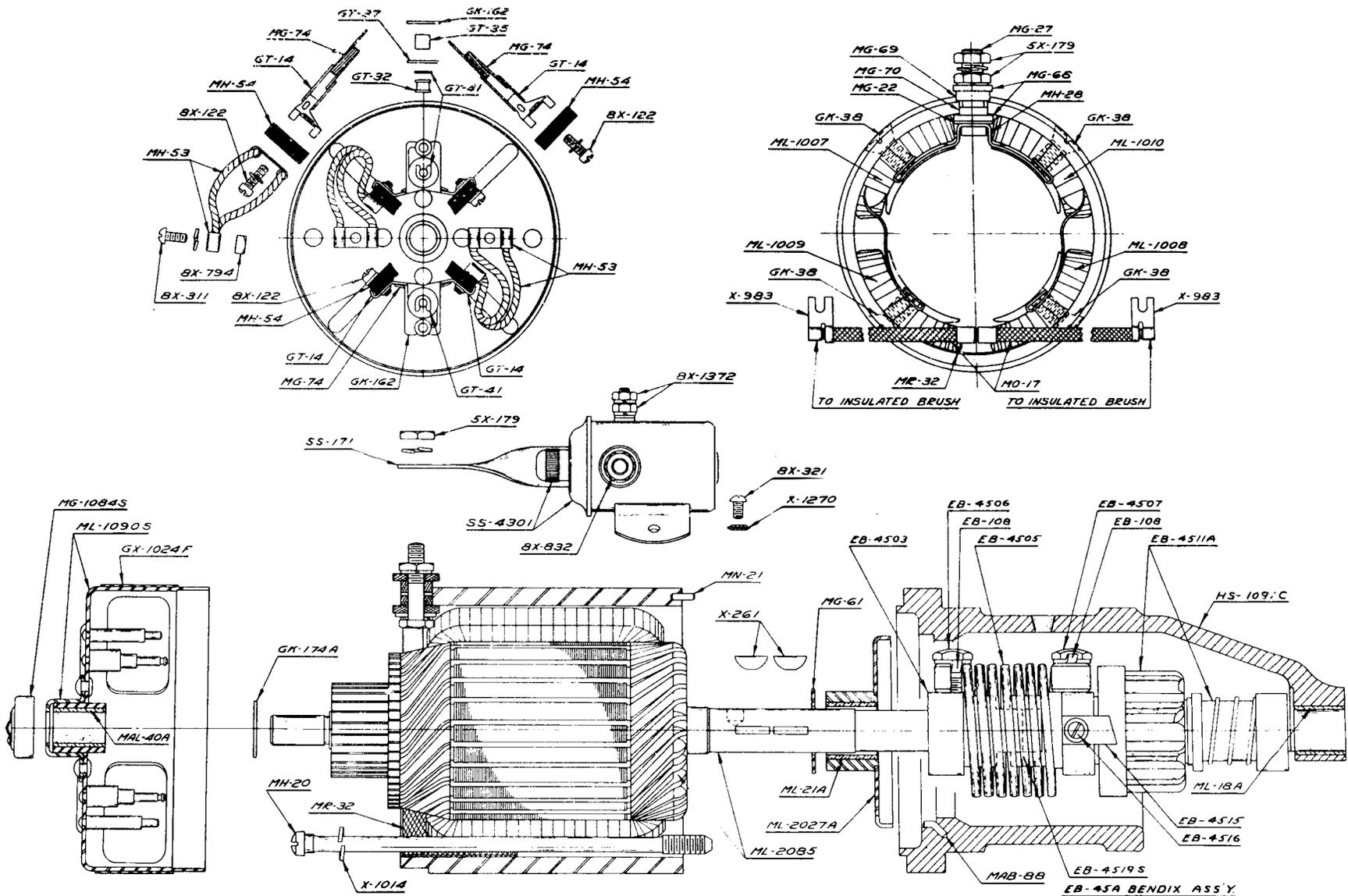
ML-4201

Frame & Field Assembly With Terminal Stud & Parts Used With					Armature Assembly & Parts Used With									
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part					
		1	2	3	4	5			1	2	3	4	5	
MH-20	2						GK-174A	1						Washer, Thrust, Arm. Shaft, C.E.
(ML-2100)	1					Frame & Field Assy.	MG-61	1						Washer, Thrust, Arm. Shaft, Int.
GK-38	4					Screw, Pole Shoe	ML-2085	1						Armature
MG-22	1					Washer, Plain, Term. Stud, Inner	X-261	2						Key, Woodruff, #6
MG-27	1					Post, Terminal, 3/8-16	Switch Assembly & Parts Used With							
MG-68	2					Washer, Ins., Term. Stud	SS-171	1						Connector
MG-69	1					Bushing, Ins., Term. Stud, Outer	SS-4301	1						Switch, Starting, Solenoid
MG-70	1					Bushing, Ins., Term. Stud, Inner	X-196	1						Washer, Lock, #10
MH-28	1					Connector, Term. Stud to Coil	8X-832	2						Nut, Hex., 5/16-24
ML-1007	1					Coil, Field, U.L.	X-1014	2						Washer, Lock, 5/16
ML-1008	1					Coil, Field, L.R.	8X-1372	1						Nut, Hex., #10-32
ML-1009	1					Coil, Field, L.L.	8X-321	2						Screw, Mtg. Switch, Rd. hd., #10-32x5/16
ML-1010	1					Coil, Field, U.R.	X-1270	2						Washer, Skpf., Switch Mtg. Sc., #10
MN-21	1					Pin, Dowel, Housing Locating	Miscellaneous Parts							
MO-17	1					Lead Assy., Field Coil	EB-45A	1						Bendix Drive Assy.
X-983	2					Terminal	EB-108	2						Washer, Lock
MR-32	1					Insulation, Field Connection	EB-4503	1						Head, Driving
5X-179	2					Nut, Term. Stud, Hex., 3/8-16	EB-4505	1						Spring, Drive
X-201	2					Washer, Lock, Term. Stud, 3/8	EB-4506	1						Screw, Spring, Head
X-1014	2					Washer, Lock, Thru Bolt, 5/16	EB-4507	1						Screw, Spring, Shaft
Comm. End Head Assembly & Parts Used With							EB-4511A	1						Shaft & Pinion
MG-1084S	1					Cover, Bearing, Comm. End	EB-4515	1						Stop, Pinion
(ML-2090)	1					Head Assy., Comm. End	EB-4516	1						Screw, Pinion Stop
GK-162	2					Insulation, Spacing, Brush Holder	EB-4519S	1						Sleeve, Compression
GT-14	4					Holder, Brush	GX-1024F	1						Band, Head
GT-32	2					Insulator, Spring	HS-1091C	1						Housing Assy., Pinion
GT-35	2					Bushing, Insulating	MAB-88	1						Pin, Dowel
GT-37	2					Washer, Insulating	ML-18A	1						Bearing, Absorbent Bronze
GT-41	2					Clip, Brush Post	ML-2027A	1						Bearing Assy., Intermediate
MG-74	4					Spring, Brush	ML-21A	1						Bearing, Absorbent Bronze
MH-53	2					Connector, Ground	X-715	1						Screw, Cover Band, Rd. hd., #10-32x1 1/4
MH-54	4					Brush	8X-794	1						Nut, Cover Band, Square, #10-32 1 2 3 4 5
ML-1090S	1					Head Assy., Partial, Comm. End	(Issued 3-8-44)							
MAL-40A	1					Bearing, Absorbent Bronze								
8X-122	4					Screw, Brush, Fil. hd., #8-32x1/2								
X-195	4					Washer, Lock, Brush Sc., #8								
X-196	2					Washer, Lock, Grd. Sc., #10								
8X-311	2					Screw, Ground, Rd. hd., #10-32x3/8								
8X-794	2					Nut, Ground Sc., Square, #10-32								
		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."

File in
Equipment & Parts List Binder



ML-4201 STARTING MOTOR ILLUSTRATION

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4202 STARTING MOTOR PARTS LIST

ML-4202

Frame & Field Assy. & Parts Used With					Armature Assembly & Parts Used With								
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
MH-20	2	Frame Screw					GK-174A	1	1/2 Plain Washer				
(ML-2097)	1	Frame & Field Assembly					MG-61	1	7/8 Plain Washer				
GK-38	4	Pole Piece Screw					ML-2035	1	ARMATURE ASSEMBLY				
MH-29	4	Pole Piece					X-261	1	#6 Woodruff Key				
ML-1007	1	Field Coil - U.L.					<u>Switch Assembly & Parts Used With</u>						
ML-1008	1	Field Coil - L.R.					SS-6LA	1	Connector				
ML-1009	1	Field Coil - L.L.					SS-4001	1	SOLENOID STARTING SWITCH				
ML-1010	1	Field Coil - U.R.					12X-196	1	#10 Lock Washer				
MN-21	1	Dowel Pin					8X-832	2	5/16-24 Hex. Nut				
MO-17	1	Field Coil Lead Assy.					12X-1014	2	5/16 Lock Washer				
X-983	2	Terminal					8X-1372	1	#10-32 Hex. Nut				
MR-32	1	Field Coil Lead Ins.					8X-321	2	#10-32x5/16 Rd. Hd. Screw				
X-1014	2	5/16 Lock Washer					X-1270	2	#10 Skpf. Washer				
<u>Terminal Post Assy. & Parts Used With</u>					<u>Miscellaneous Parts</u>								
MH-3028	1	Terminal Post Assembly					EBA-2	1	BENDIX DRIVE ASSEMBLY				
MG-22	1	Plain Steel Washer					EB-108	2	Lock Washer				
MG-27	1	Terminal Post					EB-7806	1	Hd. Spring Bolt or Screw				
MG-68	2	Insulating Washer					EB-7807	1	Shaft Spring Screw				
MG-69	1	Terminal Post Cover Ins.					EB-7819S	1	Compression Sleeve				
MG-70	1	Terminal Post Frame Ins.					EB-8503	1	Driving Head				
MH-28	1	Terminal Post Connector					EB-8705	1	DRIVE SPRING				
5X-179	2	3/8-16 Hex. Nut					EB-8734	1	Take Up Spring				
X-201	2	3/8 Lock Washer					EBA-211	1	S-A Assembly				
<u>Comm. End Head Assy. & Parts Used With</u>					GX-1024	1	Head Band Assembly						
MG-1084S	1	Bearing Cover with Oiler					ML-2027A	1	INTERMEDIATE BRG. ASSY.				
(ML-2090)	1	Comm. End Head Assembly					ML-21A	1	Absorbent Bronze Brg.				
GK-162	2	Br. Holder Spacing Ins.					PS-1059C	1	Pinion Housing Assembly				
GT-14	4	Brush Holder					MAB-88	1	Dowel Pin				
GT-32	2	Spring Insulator					MG-77A	1	Absorbent Bronze Brg.				
GT-35	2	Insulating Bushing					X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
GT-37	2	Insulating Washer					8X-794	1	#10-32 Square Nut				
GT-41	2	Br. Holder Post Clip							1	2	3	4	5
MG-74	4	Brush Spring											
MH-53	2	Ground Connector											
MH-54	4	BRUSH											
ML-1090S	1	C.E. Head Part Assy.											
ML-1040S	1	C.E. Cap & Brg. Assy.											
MAL-40A	1	Absorbent Bronze Brg											
8X-1452	4	3/16x5/16 Oval Hd. Rivet											
8X-122	4	#8-32x1/2 Fill. Hd. Screw											
X-195	4	#8 Lock Washer											
X-196	2	#10 Lock Washer											
8X-311	2	#10-32x3/8 Rd. Hd. Screw											
8X-794	2	#10-32 Square Nut											
		1	2	3	4	5							

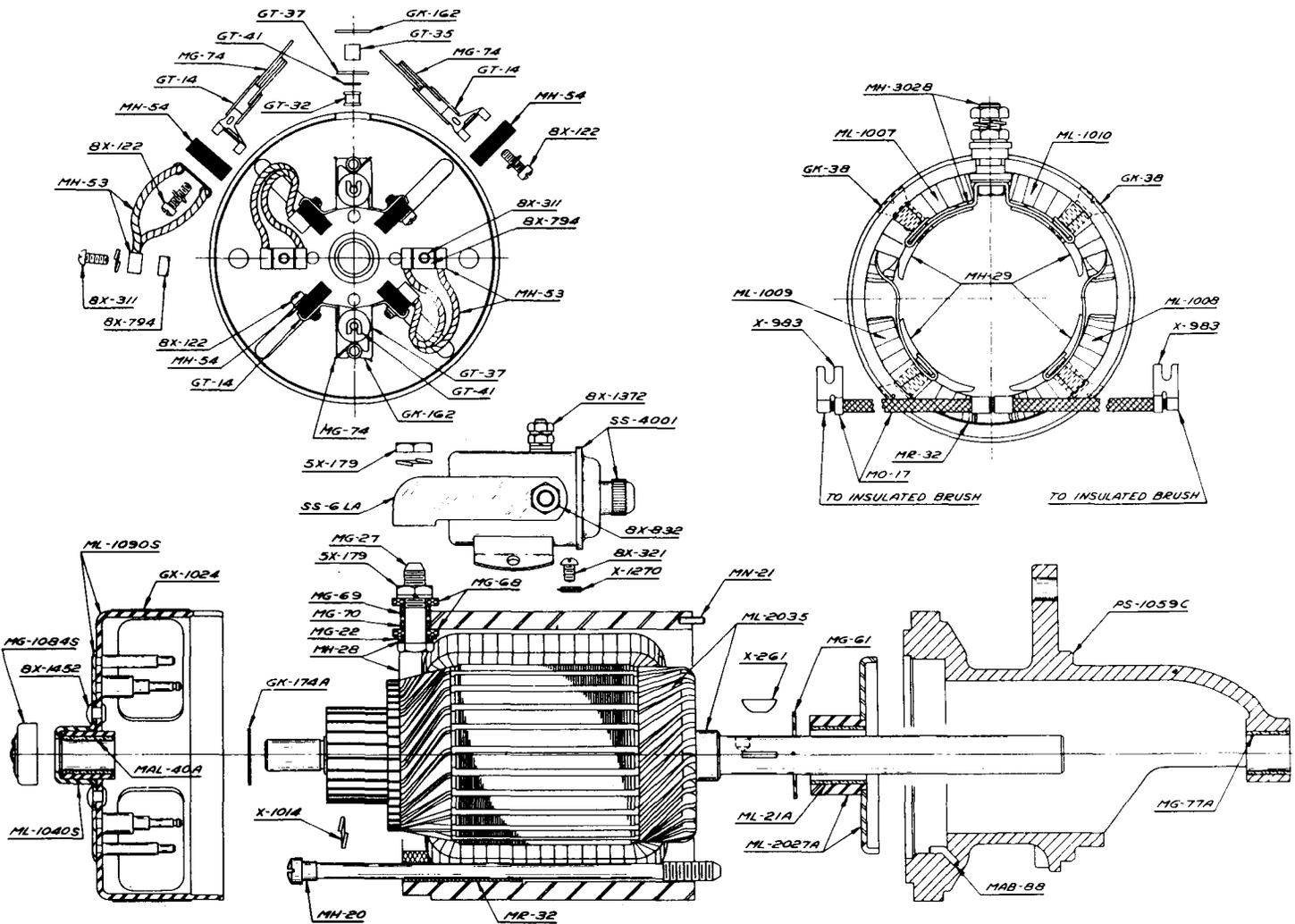
(Issued 12-7-39)

UNIT	APPLICATION
ML-4202	Diamond T

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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."



ML-4202 STARTING MOTOR ILLUSTRATION

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4205 STARTING MOTOR PARTS LIST

ML-4205

Frame & Field Assy. & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MH-20	2					Frame Screw
(ML-2097)	1					Frame & Field Assembly
GK-38	4					Pole Piece Screw
MH-29	4					Pole Piece
ML-1007	1					Field Coil - U.L.
ML-1008	1					Field Coil - L.R.
ML-1009	1					Field Coil - L.L.
ML-1010	1					Field Coil - U.R.
MN-21	1					Dowel Pin
MO-17	1					Field Coil Lead Assy.
X-983	2					Terminal
MR-32	1					Field Coil Lead Ins.
8X-832	1	5/16-24				Hex. Nut
X-1014	2	5/16				Lock Washer

Terminal Post Assy. & Parts Used With

MH-3028	1					Terminal Post Assembly
MG-22	1					Plain Steel Washer
MG-27	1					Terminal Post
MG-68	2					Insulating Washer
MG-69	1					Term. Post Cover Ins.
MG-70	1					Term. Post Frame Ins.
MH-28	1					Terminal Post Connector
8X-179	2	3/8-16				Hex. Nut
12X-201	2	3/8				Lock Washer

Comm. End Head Assy. & Parts Used With

MG-1084S	1					Bearing Cover with Oiler
(ML-2090)	1					Comm. End Head Assembly
GK-162	2					Pr. Holder Spacing Ins.
GT-14	4					Brush Holder
GT-32	2					Spring Insulator
GT-35	2					Insulating Bushing
GT-37	2					Insulating Washer
GT-41	2					Br. Holder Post Clip
MG-74	4					Brush Spring
MH-53	2					Ground Connector
MH-54	4					BRUSH
ML-1090S	1					C.E. Head Part Assy.
ML-1040S	1					C.E. Cap & Brg. Assy.
MAL-40A	1					Absorbent Bronze Bearing
8X-1452	4	3/16x5/16				Oval Hd. Rivet
8X-122	4	#8-32x1/2				Fill. Hd. Screw
X-195	4	#8				Lock Washer
X-196	2	#10				Lock Washer
8X-311	2	#10-32x3/8				Rd. Hd. Screw
8X-794	2	#10-32				Square Nut
		1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GK-174A	1					1/2 Plain Washer
MG-61	1					7/8 Plain Washer
ML-2035	1					ARMATURE ASSEMBLY
X-261	1					#6 Woodruff Key

Switch Assembly & Parts Used With

SS-111R	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-11	1					BENDIX DRIVE ASSEMBLY
EB-108	2					Lock Washer
EB-7806	1					Head Spring Screw
EB-7807	1					Shaft Spring Screw
EB-7819S	1					Compression Sleeve
EB-8503	1					Driving Head
EB-8705	1					DRIVE SPRING
EB-8734	1					Take-Up Spring
EBA-1111	1					S-A Assembly
GX-1024	1					Head Band Assembly
ML-2027A	1					INTERMEDIATE BRG. ASSY.
ML-21A	1					Absorbent Bronze Brg.
PS-1059B	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 4-4-40)

UNIT	APPLICATION
ML-4205	General Electric

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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

ML-4207 STARTING MOTOR PARTS LIST

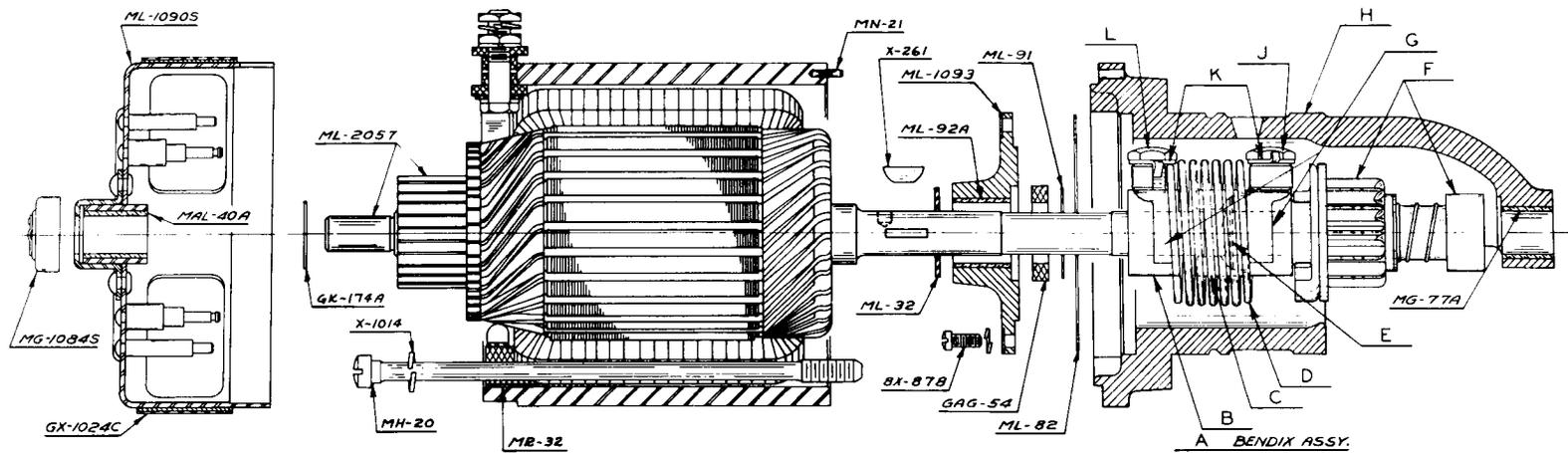
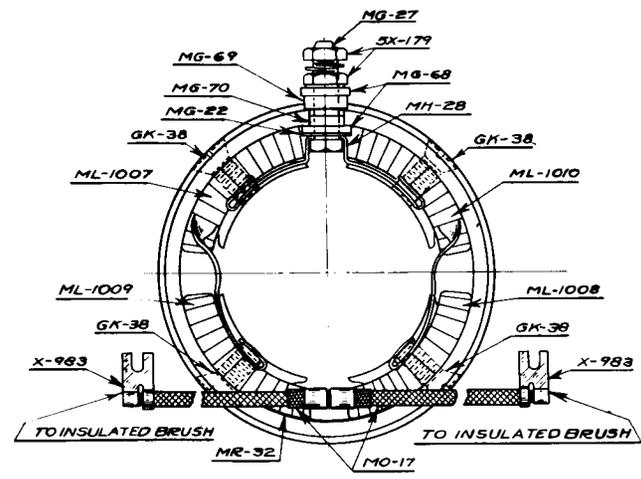
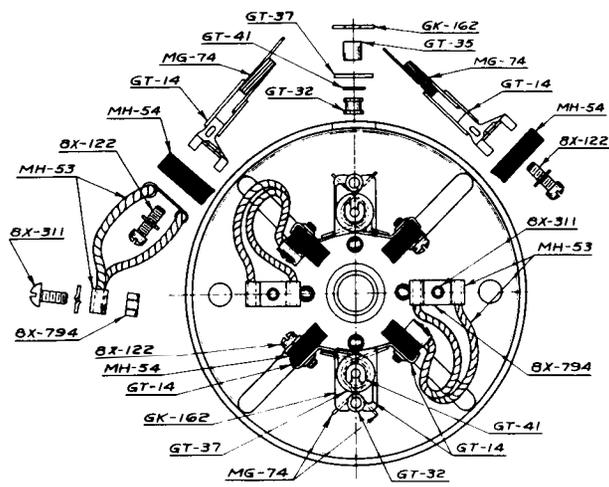
ML-4207

Frame & Field Assembly With Terminal Stud & Parts Used With					Armature Assembly & Parts Used With									
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part					
		1	2	3	4	5			1	2	3	4	5	
MH-20	2	Bolt, Thru					GK-174A	1	Washer, Thrust, Armature Shaft, C.E.					
(ML-2025)	1	Frame & Field Assy.					ML-32	1	Washer, Thrust, Int. Bearing					
GK-38	4	Screw, Pole Shoe					ML-2057	1	Armature					
MG-22	1	Washer, Plain, Term. Stud, Inner					X-261	1	Key, Woodruff, #6					
MG-27	1	Stud, Terminal, 3/8-16					<u>Miscellaneous Parts</u>							
MG-68	2	Washer, Ins., Term. Stud					EB-31	1	Bendix Drive Assy.					
MG-69	1	Bushing, Ins., Term. Stud, Outer					EB-508	2	Washer, Lock					
MG-70	1	Bushing, Ins., Term. Stud, Inner					EB-2303	1	Head, Driving					
MH-28	1	Connector, Term. Stud to Coil					EB-2319S	1	Sleeve, Compression					
ML-1007	1	Coil, Field, U.L.					EB-2322	2	Clip, Spring, Support					
ML-1008	1	Coil, Field, L.R.					EB-2406	1	Screw, Spring, Head					
ML-1009	1	Coil, Field, L.L.					EB-2407	1	Screw, Spring, Shaft					
ML-1010	1	Coil, Field, U.R.					EB-3105	1	Spring, Drive					
MN-21	1	Pin, Dowel, Housing Locating					EB-3111	1	Shaft & Pinion					
MO-17	1	Lead Assy., Field Coil					GAG-54	1	Washer, Felt					
X-983	2	Terminal					GX-1024C	1	Band, Head					
MR-32	1	Insulation, Field Connection					ML-82	1	Gasket, Intermediate Bearing					
5X-179	2	Nut, Term. Stud, Hex., 3/8-16					ML-91	1	Retainer, Felt					
X-201	2	Washer, Lock, Term. Stud, 3/8					ML-1093	1	Bearing Assy., Intermediate					
X-1014	2	Washer, Lock, Thru Bolt, 5/16					ML-92A	1	Bearing, Absorbent Bronze					
<u>Comm. End Head Assembly & Parts Used With</u>						PS-1074	1	Housing Assy., Pinion						
MG-1084S	1	Cover, Bearing, Comm. End					MG-77A	1	Bearing, Absorbent Bronze					
(ML-2090)	1	Head Assy., Comm. End					X-195	4	Washer, Lock, #8					
GK-162	2	Insulation, Spacing, Brush Holder					X-715	1	Screw, Cover Band, Rd. hd., #10-32x1 1/4					
GT-14	4	Holder, Brush					8X-794	1	Nut, Cover Band, Square, #10-32					
GT-32	2	Insulator, Spring					8X-878	4	Screw, Attaching, Int. Bearing, Fil. hd., #8-32x7/16					
GT-35	2	Bushing, Insulating					1 2 3 4 5							
GT-37	2	Washer, Insulating					(Issued 3-15-44)							
GT-41	2	Clip, Brush Post												
MG-74	4	Spring, Brush												
MH-53	2	Connector, Ground												
MH-54	4	Brush												
ML-1090S	1	Head Assy.. Partial, C.E.												
MAL-40A	1	Bearing, Absorbent Bronze												
8X-122	4	Screw, Brush, Fil. hd., #8-32x1/2												
X-195	4	Washer, Lock, Brush Sc., #8												
X-196	2	Washer, Lock, Ground Screw, #10												
8X-311	2	Screw, Ground, Rd. hd., #10-32x3/8												
8X-794	2	Nut, Ground Sc., Square, #10-32												
		1	2	3	4	5								

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Equipment & Parts List Binder



UNIT	A	B	C	D	E	F	G	H	J	K	L
ML-4207	EB-31	EB-2303	EB-2313S	EB-3105	NONE	EB-3111	EB-2322	PS-1074	EB-2407	EB-308	EB-2406

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4209 STARTING MOTOR PARTS LIST

ML-4209

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MH-20	2					Frame Screw
(ML-2110)	1					Frame & Field Assy.
GK-38	4					Pole Piece Screw
MH-29	4					Pole Piece
ML-1007	1					Field Coil - U.L.
ML-1008	1					Field Coil - L.R.
ML-1009	1					Field Coil - L.L.
ML-1010	1					Field Coil - U.R.
MN-21	1					Dowel Pin
MO-17	1					Field Coil Lead Assy.
X-983	2					Terminal
MR-32	1					Field Connection Ins.
X-1014	2					5/16 Lock Washer

Terminal Post Assembly & Parts Used With

MH-3028	1					Terminal Post Assy.
MG-22	1					Plain Steel Washer
MG-27	1					Terminal Post
MG-68	2					Insulating Washer
MG-69	1					Term. Post Cover Ins.
MG-70	1					Term. Post Frame Ins.
MH-28	1					Terminal Post Connector
5X-179	2					3/8-16 Hex. Nut
X-201	2					3/8 Lock Washer

Comm. End Head Assembly & Parts Used With

MG-1084S	1					Bearing Cover with Oiler
(ML-2090)	1					Comm. End Head Assy.
GK-162	2					Br. Holder Spacing Ins.
GT-14	4					Brush Holder
GT-32	2					Spring Insulator
GT-35	2					Insulating Bushing
GT-37	2					Insulating Washer
GT-41	2					Br. Folder Post Clip
MG-74	4					Brush Spring
MH-53	2					Ground Connector
MH-54	4					BRUSH
ML-1090S	1					C.E. Head Part Assy.
ML-1040S	1					C.E. Cap & Brg. Assy.
MAL-40A	1					Absorbent Bronze Bearing
8X-1452	4					3/16x5/16 Oval Hd. Rivet
8X-122	4					#8-32x1/2 Fill. Hd. Sc.
X-195	4					#8 Lock Washer
X-196	2					#10 Lock Washer
8X-311	2					#10-32x3/8 Rd. Hd. Sc.
8X-794	2					#10-32 Square Nut
		1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MG-61	2					7/8 Plain Washer
ML-2085	1					ARMATURE ASSEMBLY
X-261	2					#6 Woodruff Key

Switch Assembly & Parts Used With

SS-183	1					Connector
X-877	2					1/4-20x5/16 Fill. Hd. Sc.
X-1272	2					1/4 Skpf. Washer
XA-569	1					STARTING SWITCH

Miscellaneous Parts

EB-45A	1					BENDIX DRIVE ASSY.
EB-108	2					Lock Washer
EB-4503	1					Driving Head
EB-4505	1					DRIVE SPRING
EB-4506	1					Head Spring Screw
EB-4507	1					Shaft Spring Screw
EB-4511A	1					S-A Assembly
EB-4515	1					Pinion Back Stop
EB-4516	1					Pinion Back Stop Screw
EB-4519S	1					Compression Sleeve
GX-1024F	1					Head Band Assembly
ML-95	1					Lock Spring Ring
ML-1094A	1					Intermediate Plate Assy.
ML-21A	1					ABSORBENT BRONZE BRG.
PS-1081C	1					Pinion Housing Assy.
ML-18	1					Bronze Graphite Brg.
MN-21	1					Dowel Pin
X-715	1					#10-32x1 1/4 Rd. Hd. Screw
8X-794	1					#10-32 Square Nut
		1	2	3	4	5

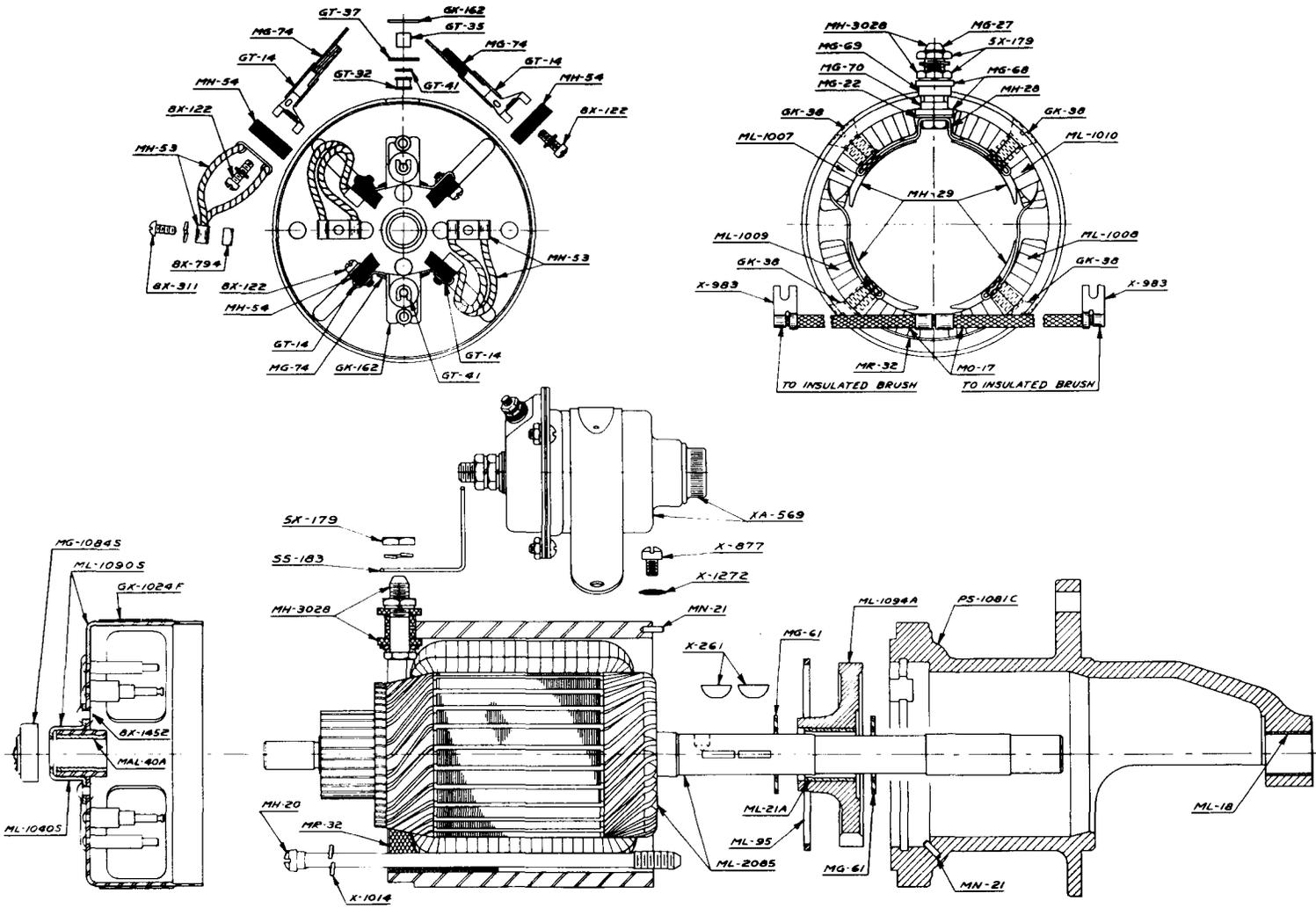
(Issued 3-4-41)

UNIT	APPLICATION
ML-4209	Diamond T

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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."



ML-4209 STARTING MOTOR ILLUSTRATION

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4210 STARTING MOTOR PARTS LIST

ML-4210

PRELIMINARY

<u>Frame & Field Assembly & Parts Used With</u>					<u>Armature Assembly & Parts Used With</u>									
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part					
		1	2	3	4	5			1	2	3	4	5	
MH-20	2	Frame Screw					MG-61	2	7/8 Plain Washer					
(ML-2097)	1	Frame & Field Assembly					ML-2085	1	ARMATURE ASSEMBLY					
GK-38	4	Pole Piece Screw					X-261	2	#6 Woodruff Key					
MH-29	4	Pole Piece					<u>Switch Assembly & Parts Used With</u>							
ML-1007	1	Field Coil - U.L.					SS-111R	1	Connector					
ML-1008	1	Field Coil - L.R.					SS-4305	1	SOLENOID STARTING SWITCH					
ML-1009	1	Field Coil - L.L.					X-196	1	#10 Lock Washer					
ML-1010	1	Field Coil - U.R.					EX-832	2	5/16-24 Hex. Nut					
MN-21	1	Dowel Pin					X-1014	2	5/16 Lock Washer					
MO-17	1	Field Coil Lead Assy.					EX-1372	1	#10-32 Hex. Nut					
X-983	2	Side Open Terminal					EX-321	2	#10-32x5/16 Rd. Hd. Screw					
MR-32	1	Field Coil Head Ins.					X-1270	2	#10 Skpf. Washer					
X-1014	2	5/16 Lock Washer					<u>Miscellaneous Parts</u>							
<u>Terminal Post Assembly & Parts Used With</u>						EBA-43	1	BENDIX DRIVE ASSEMBLY						
MH-3028	1	Terminal Post Assembly					EB-108	2	Lock Washer					
MG-22	1	Plain Steel Washer					EB-4503	1	Driving Head					
MG-27	1	Terminal Post					EB-4515	1	Pinion Back Stop					
MG-68	2	Insulating Washer					EB-4516	1	Pinion Back Stop Screw					
MG-69	1	Terminal Post Cover Ins.					EB-4519S	1	Compression Sleeve					
MG-70	1	Terminal Post Frame Ins.					EBA-1811	1	S -A Assembly					
MH-28	1	Terminal Post Connector					EBA-4305	1	DRIVE SPRING					
5X-179	2	3/8-16 Hex. Nut					EBA-4306	1	Head Spring Screw					
X-201	2	3/8 Lock Washer					EBA-4307	1	Shaft Spring Screw					
<u>Comm. End Plate Assembly & Parts Used With</u>						GK-1024F	1	Head Band Assembly						
MG-1084S	1	Bearing Cover With Oiler					ML-95	1	Lock Spring Ring					
ML-2102	1	Comm. End Head Assy.					ML-1094A	1	Intermediate Plate Assy.					
GK-162	2	Brush Holder Spacing Ins.					ML-21A	1	ABSORBENT BRONZE BRG.					
GT-14	4	Brush Holder					PS-1081B	1	Pinion Housing Assy.					
GT-35	4	Insulating Bushing					ML-18	1	Bronze Graphite Bearing					
GT-37	4	Insulating Washer					MN-21	1	Dowel Pin					
GT-41	2	Brush Holder Post Clip					X-715	1	#10-32x1 1/4 Rd. Hd. Screw					
MG-68	1	Terminal Post Ins. Washer					EX-794	1	#10-32 Square Nut					
MG-74	4	Brush Spring							1	2	3	4	5	
MH-54	4	BRUSH												
ML-101	1	Terminal Post Insulation												
ML-104	1	Terminal Post Insulation												
ML-105	1	Terminal Post 3/8-16												
ML-109	2	Brush Stud Insulation												
ML-1102	1	Comm. End Head Part Assy.												
ML-1040S	1	C.E. Cap & Brg. Assy.												
MAL-40A	1	Absorbent Bronze Brg												
EX-1452	4	3/16x5/16 Oval Hd. Rivet												
ML-1108	1	Brush Lead												
ML-108	1	Terminal												
X-983	2	Terminal												
SW-688	1	Insulating Bushing												
EX-122	4	#8-32x1/2 Fill. Hd. Screw												
5X-179	2	3/8-16 Hex. Nut												
X-195	4	#8 Lock Washer												
X-201	2	3/8 Lock Washer												
		1	2	3	4	5								

(Issued 5-20-41)

UNIT	APPLICATION
ML-4210	Hill Diesel

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

ML-4211 STARTING MOTOR PARTS LIST

ML-4211

PRELIMINARY

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MH-20	2	Frame Screw				
(ML-2097)	1	Frame & Field Assembly				
GK-38	4	Pole Piece Screw				
MH-29	4	Pole Piece				
ML-1007	1	Field Coil - U.L.				
ML-1008	1	Field Coil - L.R.				
ML-1009	1	Field Coil - L.L.				
ML-1010	1	Field Coil - U.R.				
MN-21	1	Dowel Pin				
MO-17	1	Field Coil Lead Assy.				
X-983	2	Side Open Terminal				
MR-32	1	Field Coil Head Ins.				
X-1014	2	5/16 Lock Washer				

Terminal Post Assembly & Parts Used With

MH-3028	1	Terminal Post Assembly				
MG-22	1	Plain Steel Washer				
MG-27	1	Terminal Post				
MG-68	2	Insulating Washer				
MG-69	1	Terminal Post Cover Ins.				
MG-70	1	Terminal Post Frame Ins.				
MH-28	1	Terminal Post Connector				
5X-179	2	3/8-16 Hex. Nut				
X-201	2	3/8 Lock Washer				

Comm. End Plate Assembly & Parts Used With

MG-1084S	1	Bearing Cover With Oiler				
(ML-2090)	1	Comm. End Head Assembly				
GK-162	2	Br. Holder Spacing Ins.				
GT-14	4	Brush Holder				
GT-32	2	Spring Insulator				
GT-35	2	Insulating Bushing				
GT-37	2	Insulating Washer				
GT-41	2	Brush Holder Post Clip				
MG-74	4	Brush Spring				
MH-53	2	Ground Connector				
MH-54	4	BRUSH				
ML-1090S	1	C.E. Head Part Assy.				
ML-1040S	1	C.E. Cap & Brg. Assy.				
MAL-40A	1	Absorbent Bronze Brg.				
EX-1452	4	3/16x5/16 Oval Hd. Rivet				
EX-122	4	#8-32x1/2 Fill. Hd. Sc.				
X-195	4	#8 Lock Washer				
X-196	2	#10 Lock Washer				
EX-311	2	#10-32x3/8 Rd. Hd. Screw				
EX-794	2	#10-32 Square Nut				
		1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GK-174A	1	1/2 Plain Washer				
MG-61	1	7/8 Plain Washer				
ML-2035	1	ARMATURE ASSEMBLY				
X-261	1	#6 Woodruff Key				

Switch Assembly & Parts Used With

SS-111R	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 ASSEMBLY				
EB-108	2	Lock Washer				
EB-7806	1	Hd. Spring Bolt or Screw				
EB-7807	1	Shaft Spring Screw				
EB-7819S	1	Compression Sleeve				
EB-8503	1	Driving Head				
EB-8705	1	DRIVE SPRING				
EB-8734	1	Take Up Spring				
EBA-211	1	S - A Assembly				
GX-1024	1	Head Band Assembly				
ML-2027A	1	INTERMEDIATE BEARING ASSY.				
ML-21A	1	Absorbent Bronze Brg.				
PS-1059	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 5-21-41)

UNIT	APPLICATION
ML-4211	Hercules Motors

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."

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4213 STARTING MOTOR PARTS LIST

ML-4213

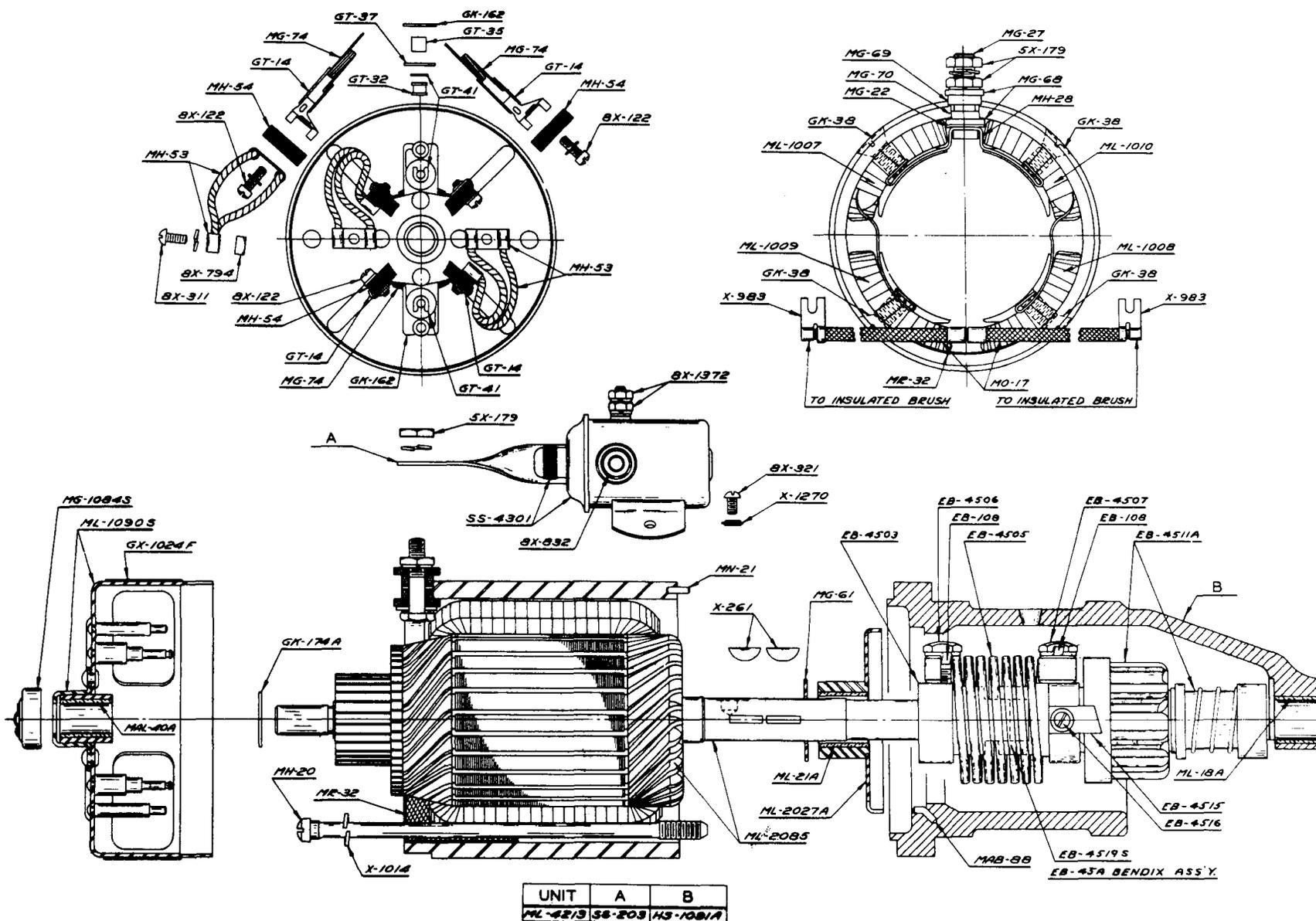
Frame & Field Assembly With Terminal Stud & Parts Used With						Armature Assembly & Parts Used With							
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
MH-20	2	Bolt, Thru					GK-174A	1	Washer, Thrust, Armature Shaft, C.E.				
(ML-2111)	1	Frame & Field Assy.					MG-61	1	Washer, Thrust, Arm. Shaft, Int.				
GK-38	4	Screw, Pole Shoe					ML-2085	1	Armature				
MG-22	1	Washer, Plain, Term. Stud, Inner					X-261	2	Key, Woodruff, #6				
MG-27	1	Post, Terminal, 3/8-16					Switch Assembly & Parts Used With						
MG-68	2	Washer, Ins., Term. Stud					SS-203	1	Connector				
MG-69	1	Bushing, Ins., Term. Stud, Outer					SS-4301	1	Switch, Starting, Solenoid				
MG-70	1	Bushing, Ins., Term. Stud, Inner					X-196	1	Washer, Lock, #10				
MH-28	1	Connector, Term. Stud to Coil					8X-832	2	Nut, Hex., 5/16-24				
ML-1007	1	Coil, Field, U.L.					X-1014	2	Washer, Lock, 5/16				
ML-1008	1	Coil, Field, L.R.					8X-1372	1	Nut, Hex., #10-32				
ML-1009	1	Coil, Field, L.L.					8X-321	2	Screw, Mtg. Switch, Rd. hd., #10-32x5/16				
ML-1010	1	Coil, Field, U.R.					X-1270	2	Washer, Skpf., Switch Mtg. Sc., #10				
MN-21	1	Pin, Dowel, Housing Locating					Miscellaneous Parts						
MO-17	1	Lead Assy., Field Coil					EB-45A	1	Bendix Drive Assy.				
X-983	2	Terminal					EB-108	2	Washer, Lock				
MR-32	1	Insulation, Field Connection					EB-4503	1	Head, Driving				
5X-179	2	Nut, Term. Stud, Hex., 3/8-16					EB-4505	1	Spring, Drive				
X-201	2	Washer, Lock, Term. Stud, 3/8					EB-4506	1	Screw, Spring, Head				
X-1014	2	Washer, Lock, Thru Bolt, 5/16					EB-4507	1	Screw, Spring, Shaft				
Comm. End Head Assembly & Parts Used With						EB-4511A	1	Shaft & Pinion					
MG-1084S	1	Cover, Bearing, Comm. End					EB-4515	1	Stop, Pinion				
(ML-2090)	1	Head Assy., Comm. End					EB-4516	1	Screw, Pinion Stop				
GK-162	2	Insulation, Spacing, Brush Holder					EB-4519S	1	Sleeve, Compression				
GT-14	4	Holder, Brush					GX-1024F	1	Band, Cover				
GT-32	2	Insulator, Spring					HS-1091A	1	Housing Assy., Pinion				
GT-35	2	Bushing, Insulating					MAB-88	1	Pin, Dowel				
GT-37	2	Washer, Insulating					ML-18A	1	Bearing, Absorbent Bronze				
GT-41	2	Clip, Brush Post					ML-2027A	1	Bearing Assy., Intermediate				
MG-74	4	Spring, Brush					ML-21A	1	Bearing, Absorbent Bronze				
MH-53	2	Connector, Ground					X-715	1	Screw, Cover Band, Rd. hd., #10-32x1 1/4				
MH-54	4	Brush					8X-794	1	Nut, Cover Band, Square, #10-32				
ML-1090S	1	Head Assy., Partial, C.E.							1	2	3	4	5
MAL-40A	1	Bearing, Absorbent Bronze					(Issued 3-15-44)						
8X-122	4	Screw, Brush, Fil. hd., #8-32x1/2											
X-195	4	Washer, Lock, Brush Sc., #8											
X-196	2	Washer, Lock, Ground Screw #10											
8X-311	2	Screw, Ground, Rd. hd., #10-32x3/8											
8X-794	2	Nut, Ground Sc., Square, #10-32											
		1	2	3	4	5							

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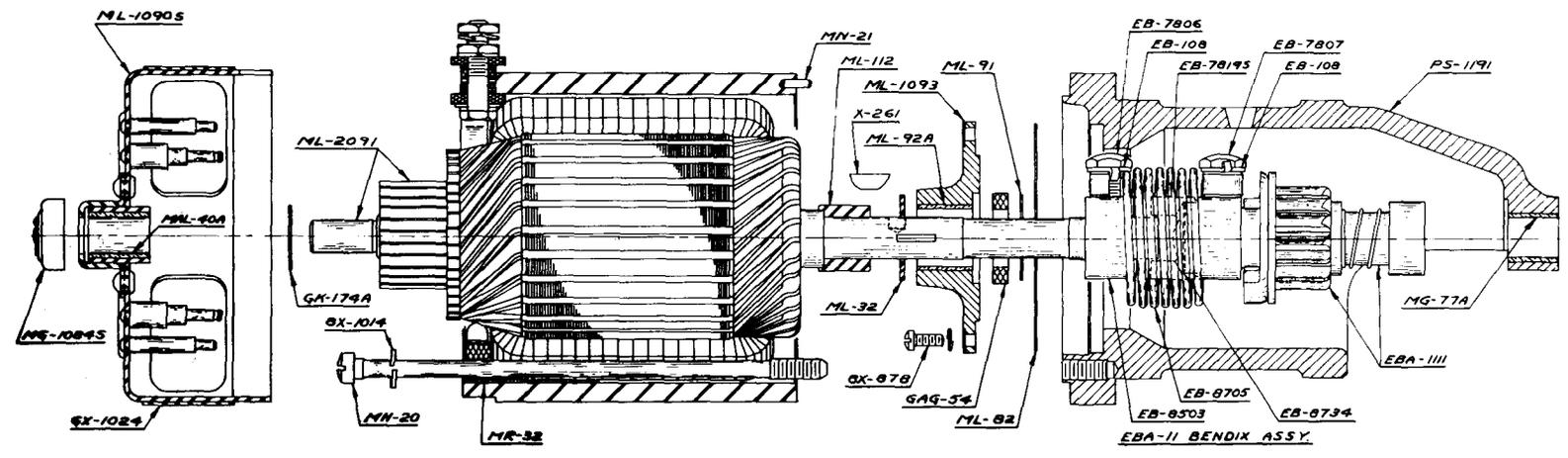
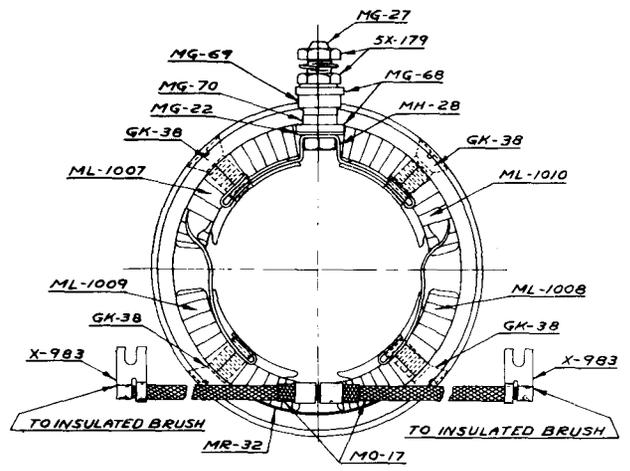
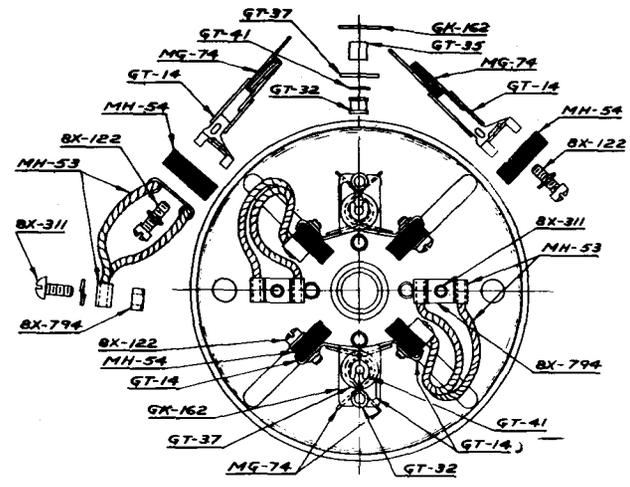
"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

File in
Equipment & Parts List Binder

ML-4213 STARTING MOTOR ILLUSTRATION



UNIT	A	B
ML-4213	SB-203	M3-1081A



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4215 STARTING MOTOR PARTS LIST

ML-4215

PRELIMINARY

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MH-20	2	Frame Screw					
(ML-2025)	1	Frame & Field Assembly					
GK-38	4	Pole Piece Screw					
MH-29	4	Pole Piece					
ML-1007	1	Field Coil - U.L.					
ML-1008	1	Field Coil - L.R.					
ML-1009	1	Field Coil - L.L.					
ML-1010	1	Field Coil - U.R.					
MN-21	1	Dowel Pin					
MO-17	1	Field Coil Lead Assembly					
X-983	2	Terminal					
MR-32	1	Field Lead Ins.					
X-1014	2	5/16 Lock Washer					

Terminal Post Assembly & Parts Used With

MH-3028	1	Terminal Post Assembly					
MG-22	1	Plain Steel Washer					
MG-27	1	Terminal Post					
MG-68	2	Insulating Washer					
MG-69	1	Terminal Post Cover Ins.					
MG-70	1	Terminal Post Frame Ins.					
MH-28	1	Terminal Post Connector					
5X-179	2	3/8-16 Hex. Nut					
X-201	2	3/8 Lock Washer					

Comm. End Head Assembly & Parts Used With

MG-1084S	1	Bearing Cover with Oiler					
(ML-2090)	1	Comm. End Head Assembly					
GK-162	2	Br. Holder Spacing Ins.					
GT-14	4	Brush Holder					
GT-32	2	Spring Insulator					
GT-35	2	Insulating Bushing					
GT-37	2	Insulating Washer					
GT-41	2	Br. Holder Post Clip					
MG-74	4	Brush Spring					
MH-53	2	Ground Connector					
MH-54	4	BRUSH					
ML-1090S	1	C. E. Head Part Assy.					
ML-1040S	1	C.E. Cap & Brg. Assy.					
MAL-40A	1	Absorbent Bronze Bearing					
EX-1452	4	3/16x5/16 Oval Hd. Rivet					
EX-122	4	#8-32x1/2 Fill. Hd. Screw					
X-195	4	#8 Lock Washer					
X-196	2	#10 Lock Washer					
EX-311	2	#10-32x3/8 Rd. Hd. Screw					
EX-794	2	#10-32 Square Nut					
			1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
GK-174A	1	1/2 Plain Washer					
MG-61	1	7/8 Plain Washer					
ML-2035	1	ARMATURE ASSEMBLY					
X-261	1	#6 Woodruff Key					

Miscellaneous Parts

EBA-2	1	BENDIX DRIVE ASSEMBLY					
EB-108	2	Lock Washer					
EB-7806	1	Hd. Spr. Bolt or Screw					
EB-7807	1	Shaft Spring Screw					
EB-7819S	1	Compression Sleeve					
EB-8503	1	Driving Head					
EB-8705	1	DRIVE SPRING					
EB-8734	1	Take-Up Spring					
EBA-211	1	S-A Assembly					
GX-1024	1	Head Band Assembly					
ML-2027A	1	INTERMEDIATE BEARING ASSY.					
ML-21A	1	Absorbent Bronze Brg.					
PS-1196	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 10-9-41)

UNIT	APPLICATION
ML-4215	U. S. Motors

Printed in U. S. A.

File in
Equipment & Parts List Binder

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4216 STARTING MOTOR PARTS LIST

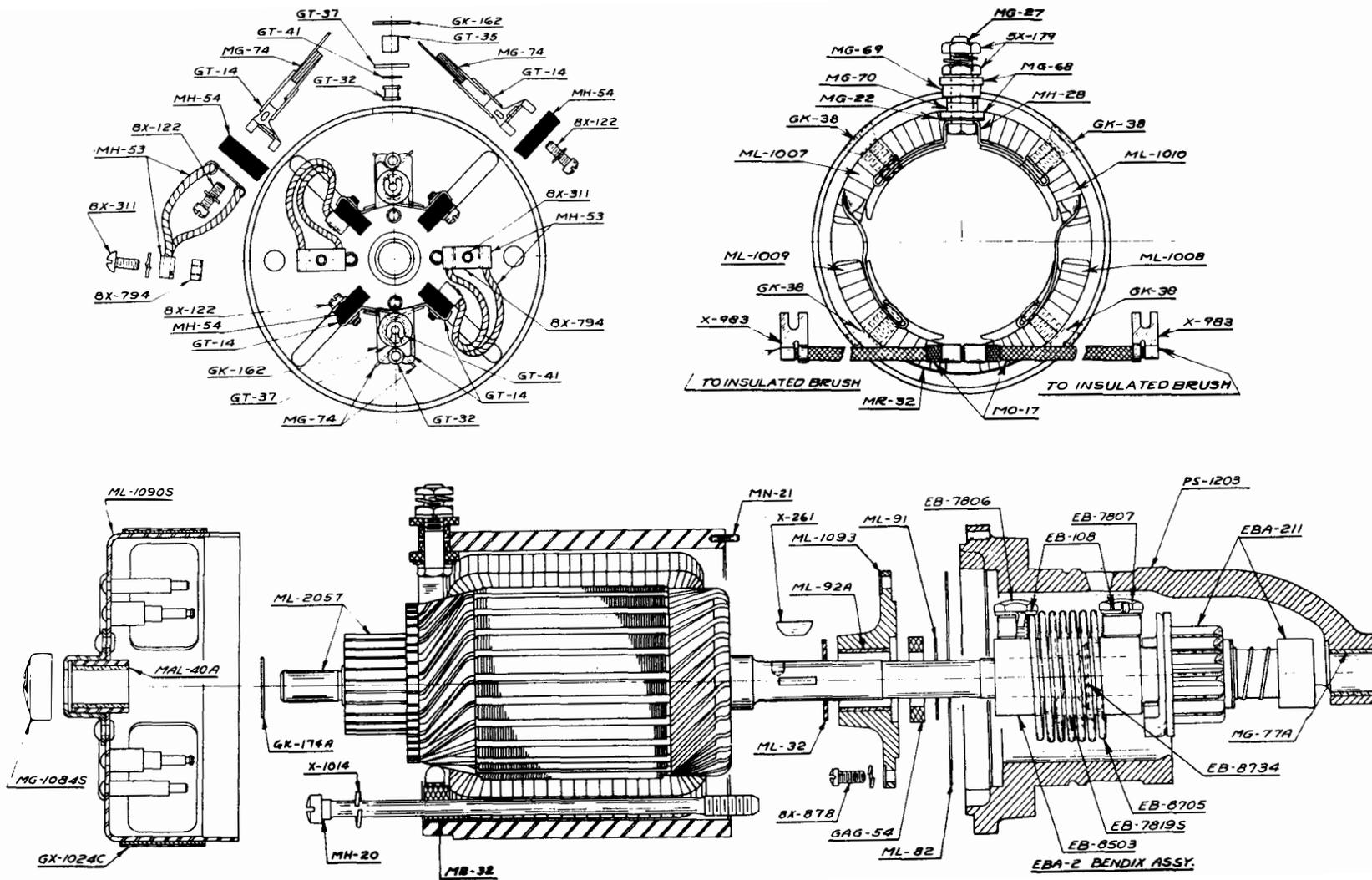
ML-4216

Frame & Field Assembly With Terminal Stud & Parts Used With						Armature Assembly & Parts Used With							
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
MH-20	2	Bolt, Thru					GK-174A	1	Washer, Thrust, Armature Shaft, C.E.				
(ML-2025)	1	Frame & Field Assy.					ML-32	1	Washer, Thrust, Int. Bearing				
GK-38	4	Screw, Pole Shoe					ML-2057	1	Armature				
MG-22	1	Washer, Plain, Term. Stud, Inner					X-261	1	Key, Woodruff, #6				
MG-27	1	Stud, Terminal, 3/8-16					<u>Miscellaneous Parts</u>						
MG-68	2	Washer, Ins., Term. Stud					EBA-2	1	Bendix Drive Assy.				
MG-69	1	Bushing, Ins., Term. Stud, Outer					EB-108	2	Washer, Lock				
MG-70	1	Bushing, Ins., Term. Stud, Inner					EB-7806	1	Screw, Spring, Head				
MH-28	1	Connector, Term. Stud to Coil					EB-7807	1	Screw, Spring, Shaft				
ML-1007	1	Coil, Field, U.L.					EB-7819S	1	Sleeve, Compression				
ML-1008	1	Coil, Field, L.R.					EB-8503	1	Head, Drive				
ML-1009	1	Coil, Field, L.L.					EB-8705	1	Spring, Drive				
ML-1010	1	Coil, Field, U.R.					EB-8734	1	Ring, Take up				
MN-21	1	Pin, Dowel, Housing Locating					EBA-211	1	Shaft & Pinion				
MO-17	1	Lead Assy., Field Coil					GAG-54	1	Washer, Felt				
X-983	2	Terminal					GX-1024C	1	Band, Cover				
MR-32	1	Insulation, Field Connection					ML-82	1	Gasket, Intermediate Bearing				
5X-179	2	Nut, Term. Stud, Hex., 3/8-16					ML-91	1	Retainer, Felt				
X-201	2	Washer, Lock, Term. Stud, 3/8					ML-1093	1	Bearing Assy., Intermediate				
X-1014	2	Washer, Lock, Thru Bolt, 5/16					ML-92A	1	Bearing, Absorbent Bronze				
<u>Comm. End Head Assembly & Parts Used With</u>						PS-1203	1	Housing Assy., Pinion					
MG-1084S	1	Cover, Bearing, Comm. End					MG-77A	1	Bearing, Absorbent Bronze				
(ML-2090)	1	Head Assy., Comm. End					X-195	4	Washer, Lock, #8				
GK-162	2	Insulation, Spacing, Brush Holder					X-715	1	Screw, Cover Band, Rd. hd., #10-32x1 1/4				
GT-14	4	Holder, Brush					8X-794	1	Nut, Cover Band, Square, #10-32				
GT-32	2	Insulator, Spring					8X-878	4	Screw, Attaching, Int. Bearing, Fil. hd., #8-32x7/16				
GT-35	2	Bushing, Insulating					1 2 3 4 5						
GT-37	2	Washer, Insulating					(Issued 3-15-44)						
GT-41	2	Clip, Brush Post											
MG-74	4	Spring, Brush											
MH-53	2	Connector, Ground											
MH-54	4	Brush											
ML-1090S	1	Head Assy., Partial, C.E.											
MAL-40A	1	Bearing, Absorbent Bronze											
8X-122	4	Screw, Brush, Fil. hd., #8-32x1/2											
X-195	4	Washer, Lock, Brush Sc., #8											
X-196	2	Washer, Lock, Ground Screw, #10											
8X-311	2	Screw, Ground, Rd. hd., #10-32x3/8											
8X-794	2	Nut, Ground Sc., Square, #10-32											
		1	2	3	4	5							

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

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ML-4216 STARTING MOTOR ILLUSTRATION

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4218 STARTING MOTOR PARTS LIST

ML-4218
(Issued 1-13-56)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
MH-20	2	Bolt, Thru
ML-2097	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MG-22	1	Washer, Plain, Term. Stud, Inner
MG-27	1	Stud, Terminal
MG-68	2	Washer, Ins., Term. Stud
MG-69	1	Bushing, Ins., Term. Stud, Outer
MG-70	1	Bushing, Ins., Term. Stud, Inner
MH-28	1	Connector, Term. Stud
ML-3005S	1	FIELD COIL PACKAGE
ML-1007	1	Coil, Field, U. L.
ML-1008	1	Coil, Field, L. R.
ML-1009	1	Coil, Field, L. L.
ML-1010	1	Coil, Field, U. R.
MN-21	1	Pin, Dowel
MO-17	1	Lead Assy., Field Coil Terminal
X-983	2	Terminal
MR-32	1	Insulation, Field Conn.
8X-179	2	Nut, Term. Stud, Hex. 3/8-16
12X-201	2	Lockwasher, Term. Stud, 3/8
12X-1014	2	Lockwasher, Thru Bolt, 5/16

Comm. End Head Assembly & Parts Used With

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

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part
MG-61	2	Washer, Thrust, Intermediate
ML-2085	1	ARMATURE
X-261	2	Key, Woodruff, D. E., #6

Switch Assembly & Parts Used With

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

Miscellaneous Parts

EBA-43	1	BENDIX DRIVE ASSY.
EB-108	2	Lockwasher
EB-4503	1	Head, Drive
EB-4515	1	Stop, Pinion
EB-4516	1	Screw, Pinion Stop
EB-4519S	1	Sleeve, Compression
EBA-1811	1	Shaft & Pinion
EBA-4305	1	SPRING, DRIVE
EBA-4306	1	Screw, Spring, Head
EBA-4307	1	Screw, Spring, Shaft
GX-1024F	1	Band, Cover
ML-95	1	Ring, Lock, Intermediate Bearing
ML-1094	1	BEARING ASSY. INTERMEDIATE
ML-21A	1	Bearing, Abs. Bronze
PS-1081B	1	Housing Assy., Pinion
ML-18	1	BEARING
MN-21	1	Pin, Dowel
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32

† BRUSH SET, SERVICE MH-1054S.

UNIT	APPLICATION
ML-4218	Continental, Worthington

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

ML-4221 STARTING MOTOR PARTS LIST

ML-4221

Frame & Field Assembly With Terminal Stud & Parts Used With					Armature Assembly & Parts Used With								
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
MH-20	2	Bolt, Thru					GK-174A	1	Washer, Armature Thrust, C.E.				
(ML-2097)	1	Frame & Field Assy.					MG-61	1	Washer, Arm, Thrust, Intermediate				
GK-38	4	Screw, Pole Shoe					ML-2035	1	ARMATURE				
MG-22	1	Washer, Plain, Term, Stud, Inner					X-261	1	Key, Woodruff, #6				
MG-27	1	Stud, Terminal, 3/8-16					Switch Assembly & Parts Used With						
MG-68	2	Washer, Ins., Term. Stud					SS-6LA	1	Connector				
MG-69	1	Brushing, Ins., Term. Stud, Outer					SS-4001	1	SOLENOID STARTING SWITCH				
MG-70	1	Bushing, Ins., Term. Stud, Inner					8X-173	1	Nut Hex., #10-32				
MH-28	1	Connector, Term. Stud					12X-196	1	Lockwasher, #10				
ML-1007	1	Coil, Field, U.L.					8X-832	2	Nut, Hex. 5/16-24				
ML-1008	1	Coil, Field, L.R.					12X-1014	2	Lockwasher, 5/16				
ML-1009	1	Coil, Field, L.L.					8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16				
ML-1010	1	Coil, Field, U.R.					X-1270	2	Washer, Switch Mtg. Sc., Skpf. #10				
MN-21	1	Pin, Dowel					Miscellaneous Parts						
MO-17	1	Lead Assy., Field Coil					EBA-11	1	BENDIX DRIVE ASSY.				
X-983	2	Terminal					EB-108	2	Lockwasher				
MR-32	1	Insulation, Field Conn,					EB-7806	1	Screw, Spring, Head				
5X-179	2	Nut, Term. Stud, Hex. 3/8-16					EB-7807	1	Screw, Spring, Shaft				
X-201	2	Lockwasher, Term. Stud, 3/8					EB-7819S	1	Sleeve, Compression				
X-1014	2	Lockwasher, Thru Bolt, 5/16					EB-8503	1	Head, Driving				
Comm. End Head Assembly & Parts Used With						EB-8705	1	SPRING, DRIVE					
ML-2090	1	Head Assy., Comm. End					EB-8734	1	Ring, Take Up				
GK-162	2	Insulation, Spacing, Brush Holder					EBA-1111	1	Shaft & Pinion				
GT-14	4	Holder, Brush					GX-1024	1	Band, Cover				
GT-32	2	Insulator, Spring					ML-2027A	1	BEARING ASSY., INTERMEDIATE				
GT-35	2	Bushing, Insulating					ML-21A	1	Bearing, Abs. Bronze				
GT-37	2	Washer, Insulating					PS-1050	1	Housing Assy., Pinion				
GT-41	2	Clip, Brush Post					MAB-88	1	Pin, Dowel				
MG-74	4	Spring, Brush					MG-77A	1	Bearing, Abs. Bronze				
MH-53	2	Connector, Ground					X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2				
MH-54†	4	Brush					8X-794	1	Nut, Cover Band, Square #10-32				
MR-1005	1	Head Assy., Partial C.E.							1	2	3	4	5
MAL-40A	1	Bearing, Abs. Bronze					†BRUSH SET, SERVICE MH-1054S						
8X-122	4	Screw, Brush, Fill. Hd. #8-32x1/2					NOTE: Part numbers shown in parenthesis are not recommended for service.						
X-195	4	Lockwasher, Br. Sc., #8											
X-196	2	Lockwasher, Ground Sc., #10											
8X-311	2	Screw, Ground, Rd. Hd. #10-32x3/8											
8X-794	2	Nut, Ground Sc., Square #10-32											
MR-1062A	1	Cover, Bearing, Comm. End											
		1	2	3	4	5							

(Issued 3-16-48)

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4301 STARTING MOTOR PARTS LIST

ML-4301

<u>Frame & Field Assembly With Terminal Stud & 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	
MAS-20	2	Bolt, Thru					GK-174A	1	Washer, Arm. Thrust, C.E.					
(ML-2117)	1	Frame & Field Assy.					MG-61	1	Washer, Thrust, Arm. Shaft, Int.					
GK-38	4	Screw, Pole Shoe					ML-2115	1	ARMATURE					
MAW-37	1	Bushing, Ins., Term. Stud					X-261	2	Key, Woodruff, #6					
MAX-35	2	Washer, Ins. Term. Stud					<u>Miscellaneous Parts</u>							
MAX-44	1	Washer, Plain, Term. Stud, Outer					EBA-76	1	BENDIX DRIVE ASSEMBLY					
MG-22	1	Washer, Plain, Term. Stud, Inner					EBA-1213	1	Spring, Anti-Drift					
MH-28	1	Connector					EBA-1225	1	Spring, Meshing					
ML-1007	1	Coil, Field, U.L.					EBA-1233	1	Ring, Retaining					
ML-1008	1	Coil, Field, L.R.					EBA-2006	1	Pin, Locating					
ML-1009	1	Coil, Field, L.L.					EBA-2008	1	Ring, Lock					
ML-1010	1	Coil, Field, U.R.					EBA-7605	1	SPRING, DRIVE					
ML-1012	1	BRUSH ASSY., INSULATED					EBA-7607	2	Plate, Spring Anchor					
MLA-28	1	Stud, Terminal, 3/8-16					EBA-7631	1	Shaft, Screw					
MN-21	1	Pin, Dowel					EBA-7632	1	Pinion					
MR-32	1	Insulation, Field Connection					GCE-24	1	Band, Cover					
8X-179	2	Nut, Term. Stud, Hex., 3/8-16					ML-2027A	1	BEARING, ASSY., INTERMEDIATE					
12X-201	2	Lockwasher, Term. Stud, 3/8					ML-21A	1	Bearing, Absorbent Bronze					
X-1014	2	Lockwasher, Thru Bolt, 5/16					PS-1231	1	Housing Assy., Pinion					
<u>Comm. End Head Assembly & Parts Used With</u>						MAB-88	1	Pin, Dowel						
ML-2002C	1	Head Assy., Comm. End					MZ-46A	1	BEARING, ABS. BRONZE					
MAL-40A	1	BEARING ABS. BRONZE					X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2					
ML-122	1	Felt					8X-794	1	Nut, Cover Band, Square #10-32 1 2 3 4 5					
ML-1034	2	BRUSH, GROUNDED												
MR-1062A	1	Cover, Bearing, C.E.												
MZ-16	2	Holder, Brush												
MZ-19	4	Spring, Brush												
X-521	4	Rivet, Brush Holder, Oval Hd., Tub. 1/4x9/32												
X-544	6	Lockwasher, C.E. Hd. Sc., #10												
X-709	6	Screw, C.E. Head, Fil. Hd. #10-32x7/16												
		1	2	3	4	5								

Unit	Application
ML-4301	Brockway, Continental

(Issued 2-19-47)

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4304 STARTING MOTOR PARTS LIST

ML-4304

Frame & Field Assembly With Terminal Stud & Parts Used With					Armature Assembly & Parts Used With							
Part No.	No. Used	Name of Part						Part No.	No. Used	Name of Part		
			1	2	3	4	5				1	2
MAS-20	2	Bolt, Thru						GK-174A	1	Washer, Arm. Thrust, C.E.		
(ML-2117)	1	Frame & Field Assy.						MG-61	1	Washer, Thrust, Arm. Shaft, Int.		
GK-38	4	Screw, Pole Shoe						ML-128	*	Washer, Thrust, 1/32" thick		
MAW-37	1	Bushing, Ins., Term. Stud						ML-128A	*	Washer, Thrust, .015" thick		
MAX-35	2	Washer, Insulating, Term. Stud						ML-128B	*	Washer, Thrust, .045" thick		
MAX-44	1	Washer, Plain, Term. Stud, Outer						ML-129	*	Washer, Thrust, 1/32" thick		
MG-22	1	Washer, Plain, Term. Stud, Inner						ML-129A	*	Washer, Thrust, .015" thick		
MH-28	1	Connector						ML-129B	*	Washer, Thrust, .045" thick		
ML-1007	1	Coil, Field, U.L.						ML-2115	1	ARMATURE		
ML-1008	1	Coil, Field, L.R.						X-261	2	Key, Woodruff, #6		
ML-1009	1	Coil, Field, L.L.						Miscellaneous Parts				
ML-1010	1	Coil, Field, U.R.						EBA-76	1	BENDIX DRIVE ASSY.		
ML-1012	1	BRUSH ASSY., INS.						EBA-1213	1	Spring, Anti-Drift		
MLA-28	1	Stud, Terminal, 3/8-16						EBA-1225	1	Spring, Meshing		
MN-21	1	Pin, Dowel						EBA-1233	1	Ring, Retaining		
MR-32	1	Insulation, Field Connection						EBA-2006	1	Pin, Locating		
8X-179	2	Nut, Terminal Stud, Hex., 3/8-16						EBA-2008	1	Ring, Lock		
12X-201	2	Lockwasher, Term. Stud, 3/8						EBA-7605	1	SPRING, DRIVE		
8X-179	1	Nut, Term. Stud, Hex. 3/8-16						EBA-7607	2	Plate, Spring Anchor		
X-201	1	Lockwasher, Term. Stud, 3/8						EBA-7631	1	Shaft, Screw		
X-1014	2	Lockwasher, Thru Bolt, 5/16						EBA-7632	1	Pinion		
Comm. End Head Assembly & Parts Used With												
ML-2002C	1	Head Assy., Comm. End						GCE-24	1	Band, Cover		
MAL-40A	1	BEARING, ABS. BRONZE						ML-2027A	1	BEARING ASSY., INTERMEDIATE		
ML-122	1	Felt						ML-21A	1	Bearing, Absorbent Bronze		
ML-1034	2	BRUSH GROUNDED						PS-1243	1	Housing Assy., Pinion		
MR-1062A	1	Cover, Bearing, C.E.						MAB-88	1	Pin, Dowel		
MZ-16	2	Holder, Brush						MZ-46A	1	BEARING, ABS. BRONZE		
MZ-19	4	Spring, Brush						X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2		
X-521	4	Rivet, Brush Holder, Oval Hd., Tub. 1/4x9/32						8X-794	1	Nut, Cover Band, Square #10-32		
X-544	6	Lockwasher, C.E. Head Sc., #10								1 2 3 4 5		
X-709	6	Screw, C.E. Head, Fil. Hd. #10-32x7/16										
			1	2	3	4	5					

* Use as required.

Unit	Application
ML-4304	Brockway

(Issued 2-19-47)

File in
Equipment & Parts List Binder

Printed in U. S. A.

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

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4305 STARTING MOTOR PARTS LIST

ML-4305

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
MAS-20	2	Bolt, Thru
(ML-2117)	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAW-37	1	Bushing, Ins., Term. Stud
MAX-35	2	Washer, Ins., Term. Stud
MAX-44	1	Washer, Plain, Term. Stud, Outer
MG-22	1	Washer, Plain, Term. Stud, Inner
MH-28	1	Connector
ML-1012†	1	Brush, Insulated
ML-3005S	1	Field Coil Package
ML-1007	1	Coil, Field, U.L.
ML-1008	1	Coil, Field, L.R.
ML-1009	1	Coil, Field, L.L.
ML-1010	1	Coil, Field, U.R.
MLA-28	1	Stud, Terminal
MN-21	1	Pin, Dowel
MR-32	1	Insulation, Field Connection
8X-179	2	Nut, Term. Stud, Hex. 3/8-16
12X-201	2	Lockwasher, Term. Stud, 3/8
12X-1014	2	Lockwasher, Thru Bolt, 5/16
Comm. End Head Assembly & Parts Used With		
ML-2002C	1	Head Assy., Comm. End
MAL-40A	1	Bearing, Abs. Bronze
ML-122	1	Felt
ML-1034S†	2	Brush, Grounded
MR-1062A	1	Cover, Bearing, Comm. End
MZ-19	4	Spring, Brush
12X-544	6	Lockwasher, C.E. Head Sc., #10
8X-709	6	Screw, C.E. Head, Fill. Hd. #10-32x7/16

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part
GK-174A	1	Washer, Thrust, Arm. Shaft, C.E.
MG-61	1	Washer, Thrust, Arm. Shaft, Intermediate
ML-2035	1	Armature
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
GCE-24	1	Band, Cover
ML-2027A	1	Bearing Assy., Intermediate
ML-21A	1	Bearing, Abs. Bronze
PS-1078	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 ML-2012S.

UNIT	APPLICATION
ML-4305	Continental

(Issued 7-15-48)

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



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4306 STARTING MOTOR PARTS LIST

ML-4306

Frame & Field Assembly with Terminal Stud & Parts Used With					Switch Assembly & Parts Used With									
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part					
		1	2	3	4	5			1	2	3	4	5	
MAS-20	2	Bolt, Thru					MBR-40	1	Connector					
(ML-2125)	1	Frame & Field Assy.					SSW-4001	1	Switch, Starting, Solenoid					
GK-38	4	Screw, Pole Shoe					8X-173	1	Nut, Hex., #10-32					
MAW-37	1	Bushing, Ins. Term. Stud					12X-196	1	Lockwasher, #10					
MAX-35	2	Washer, Ins. Term. Stud					8X-164	2	Nut, Hex., 5/16-24					
MAX-44	1	Washer, Plain, Term. Stud, Outer					12X-1014	2	Lockwasher, 5/16					
MG-22	1	Washer, Plain, Term. Stud, Inner					8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16					
MH-28	1	Connector					X-1270	2	Washer, Skpf., Switch Mtg. Screw, #10					
ML-1007	1	Coil Field, U.L.					Miscellaneous Parts							
ML-1008	1	Coil Field, L.R.					EBA-76	1	Bendix Drive Assy.					
ML-1009	1	Coil Field, L.L.					EBA-1213	1	Spring, Anti-Drift					
ML-1010	1	Coil Field, U.R.					EBA-1225	1	Spring, Meshing					
ML-1012	1	Brush Assy., Insulated					EBA-1233	1	Ring, Retaining					
MLA-28	1	Stud, Terminal, 3/8-16					EBA-2006	1	Pin, Locating					
MN-21	1	Pin, Dowel					EBA-2008	1	Ring, Lock					
MR-32	1	Insulation Field Conn.					EBA-7605	1	Spring, Drive					
8X-179	2	Nut, Terminal Stud, Hex., 3/8-16					EBA-7607	2	Plate, Spring, Anchor					
X-201	2	Lockwasher, Term. Stud, 3/8					EBA-7631	1	Shaft, Screw					
12X-1014	2	Lockwasher, Thru Bolt, 5/16					EBA-7632	1	Pinion					
Comm. End Head Assembly & Parts Used With						GCE-24	1	Band, Cover						
ML-2002C	1	Head Assy., Comm. End					ML-2027A	1	Bearing, Assy., Intermediate					
MAL-40A	1	Bearing, Abs. Bronze					ML-21A	1	Bearing, Abs. Bronze					
ML-122	1	Felt					PS-1243A	1	Housing Assy., Pinion					
ML-1034	2	Brush Grounded					MAB-88	1	Pin, Dowel					
MR-1062A	1	Cover, Bearing, Comm. End					MZ-46A	1	Bearing, Abs. Bronze					
MZ-16	2	Holder Brush					8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2					
MZ-19	4	Spring, Brush					8X-794	1	Nut, Cover Band, Square, #10-32					
X-521	4	Rivet, Brush Holder, Oval Hd., Tub., 1/4x9/32							1	2	3	4	5	
12X-544	6	Lockwasher C.E. Head Sc., #10					* Used As Required							
8X-709	6	Screw C.E. Head, Fil Hd., #10-32x7/16												
Armature Assembly & Parts Used With														
GK-174A	1	Washer, Arm. Thrust, C.E.												
MG-61	1	Washer, Thrust, Arm. Shaft, Int.												
ML-128	*	Washer, Thrust, C.E. 1/32" Thick												
ML-128A	*	Washer, Thrust, C.E. .015" Thick												
ML-128B	*	Washer, Thrust, C.E. .045" Thick												
ML-129	*	Washer, Thrust, D.E. 1/32" Thick												
ML-129A	*	Washer, Thrust, D.E. .015" Thick												
ML-129B	*	Washer, Thrust, D.E. .045" Thick												
ML-2115	1	Armature												
X-261	2	Key, Woodruff, #6												
		1	2	3	4	5								

UNIT	APPLICATION
ML-4306	Ward LaFrance

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(Issued 8-21-47)

File in
Equipment & Parts List Binder

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4307 STARTING MOTOR PARTS LIST

ML-4307

Frame & Field Assembly With Terminal Stud & Parts Used With					Switch Assembly & Parts Used With								
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
MAS-20	2	Bolt, Thru					SS-111R	1	Connector				
(ML-2125)	1	Frame & Field Assy.					SS-4301	1	Switch, Starting, Solenoid				
GK-38	4	Screw Pole Shoe					X-196	1	Lockwasher, #10				
MAW-37	1	Bushing, Ins. Term. Stud					8X-832	2	Nut, Hex., 5/16-24				
MAX-35	2	Washer Ins. Term. Stud					X-1014	2	Lockwasher, 5/16				
MAX-44	1	Washer, Plain Term. Stud Outer					8X-1372	1	Nut, Hex., #10-32				
MG-22	1	Washer, Plain Term. Stud Inner					8X-321	2	Screw, Mtg., Switch, Rd. Hd. #10-32x5/16				
MH-28	1	Connector					X-1270	2	Washer, Skpf., Switch Mtg. Screw, #10				
ML-1007	1	Coil, Field, U.L.					<u>Miscellaneous Parts</u>						
ML-1008	1	Coil, Field L.R.					EBA-76	1	Bendix Drive Assy.				
ML-1009	1	Coil, Field, L.L.					EBA-1213	1	Spring, Anti-Drift				
ML-1010	1	Coil, Field, U.R.					EBA-1225	1	Spring, Meshing				
ML-1012	1	Brush Assy., Insulated					EBA-1233	1	Ring, Retaining				
MLA-28	1	Stud, Terminal, 3/8-16					EBA-2006	1	Pin, Locating				
MN-21	1	Pin, Dowel					EBA-2008	1	Ring, Lock				
MR-32	1	Insulation, Field Connection					EBA-7605	1	Spring, Drive				
8X-179	2	Nut, Term. Stud, Hex. 3/8-16					EBA-7607	2	Plate, Spring Anchor				
X-201	2	Lockwasher, Term. Stud 3/8					EBA-7631	1	Shaft, Screw				
X-1014	2	Lockwasher, Thru Bolt, 5/16					EBA-7632	1	Pinion				
<u>Comm. End Head Assembly & Parts Used With</u>					GCE-24	1	Band, Cover						
ML-2002C	1	Head Assy., Comm. End					ML-2027A	1	Bearing Assy., Intermediate				
MAL-40A	1	Bearing, Abs. Bronze					ML-21A	1	Bearing, Abs. Bronze				
ML-122	1	Felt					PS-1231A	1	Housing Assy., Pinion				
ML-1034	2	Brush, Grounded					MAB-88	1	Pin, Dowel				
MR-1062A	1	Cover, Bearing, Comm. End					MZ-46A	1	Bearing, Abs. Bronze				
MZ-16	2	Holder, Brush					X-715	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/4				
MZ-19	4	Spring, Brush					8X-794	1	Nut, Cover Band, Square, #10-32				
X-521	4	Rivet, Brush Holder, Oval Hd., Tub. 1/4x9/32							1	2	3	4	5
X-544	6	Lockwasher, Attaching, C.E. Head, #10											
X-709	6	Screw, Attaching, C.E. Head, Fil. Hd., #10-32x7/16											
<u>Armature Assembly & Parts Used With</u>													
GK-174A	1	Washer, Arm. Thrust, C.E.											
MG-61	1	Washer, Thrust, Arm. Shaft, Int.											
ML-2115	1	Armature											
X-261	2	Key, Woodruff, #6											
		1	2	3	4	5							

Unit	Application
ML-4307	Diamond T, Ward LaFrance

(Issued 10-25-46)

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4308 STARTING MOTOR PARTS LIST

ML-4308

Frame & Field Assembly & Parts Used With						Switch Assembly & Parts Used With							
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
MAS-20	2	Bolt, Thru					MBR-40	1	Connector				
(ML-2125)	1	Frame & Field Assy.					SSW-4001	1	SOLENOID SWITCH				
GK-38	4	Screw, Pole Shoe					8X-164	2	Nut, Hex. 5/16-24				
MAW-37	1	Bushing, Ins., Term. Stud					8X-173	1	Nut, Hex. #10-32				
MAX-35	2	Washer, Ins., Term. Stud					12X-196	1	Lockwasher, #10				
MAX-44	1	Washer, Plain, Term. Stud, Outer					12X-1014	2	Lockwasher, 5/16				
MG-22	1	Washer, Plain, Term. Stud, Inner					8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16				
MH-28	1	Connector					X-1270	2	Washer, Switch Mtg., Skpf. #10				
ML-1012 †	1	Brush, Insulated					<u>Miscellaneous Parts</u>						
ML-3005S	1	FIELD COIL PACKAGE					EBA-50	1	BENDIX DRIVE ASSY.				
ML-1007	1	Coil, Field, U.L.					EB-108	2	Lockwasher				
ML-1008	1	Coil, Field, L.R.					EB-4503	1	Head, Drive				
ML-1009	1	Coil, Field, L.L.					EB-4506	1	Screw, Spring, Head				
ML-1010	1	Coil, Field, U.R.					EB-4507	1	Screw, Spring, Shaft				
MLA-28	1	Stud, Terminal					EB-4515	1	Stop, Pinion				
MN-21	1	Pin, Dowel					EB-4516	1	Screw, Pinion Stop				
MR-32	1	Insulation, Field Connection					EB-5219S	1	Sleeve, compression				
8X-179	2	Nut, Term. Stud, Hex. 3/8-16					EBA-5005	1	SPRING, DRIVE				
X-201	2	Lockwasher, Term. Stud, 3/8					EBA-5011	1	Shaft & Pinion				
12X-1014	2	Lockwasher, Thru Bolt, 5/16					GCE-24	1	Band, Cover				
<u>Comm. End Head Assembly & Parts Used With</u>						ML-95	1	Ring, Lock, Intermediate Brg.					
ML-2002C	1	Head Assy., Comm. End					ML-1094	1	Bearing Assy., Intermediate				
MAL-40A	1	BEARING, ABS. BRONZE					ML-21A	1	BEARING, ABS. BRONZE				
ML-122	1	Felt					PS-1258	1	Housing Assy., Pinion				
ML-1034S †	2	Brush, Grounded					ML-18A	1	BEARING, ABS. BRONZE				
MR-1062A	1	Cover, Bearing, Comm. End					MZ-21	1	Pin, Dowel				
MZ-19	4	Spring, Brush					8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2				
12X-544	6	Lockwasher, C.E. Head Screw, #10					8X-794	1	Nut, Cover Band, Square #10-32 1 2 3 4 5				
8X-709	6	Screw, C.E. Head, Fill. Hd. #10-32x7/16					† BRUSH SET, SERVICE ML-2012S.						
<u>Armature Assembly & Parts Used With</u>													
MG-61	2	Washer, Arm. Thrust, Intermediate											
ML-2126	1	ARMATURE											
X-261	2	Key, Woodruff, #6 1 2 3 4 5											

UNIT	APPLICATION
ML-4308	Buda

“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

ML-4309 STARTING MOTOR PARTS LIST

ML-4309
(Issued 6-21-55)

Frame & Field Assembly & Parts Used With			Armature Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MH-20	2	Bolt, Thru	GK-174A	1	Washer, Arm. Thrust, C. E.
ML-2117	1	Frame & Field Assembly	MG-61	1	Washer, Arm. Thrust, Intermediate
GK-38	4	Screw, Pole Shoe	ML-128	*	Washer, Arm. Thrust, C. E., 1/32"
MAW-37	1	Bushing, Ins., Term. Stud	ML-128B	*	Washer, Arm. Thrust, C. E., .045"
MAX-35	2	Washer, Term. Stud	ML-2035A	1	ARMATURE
MAX-44	1	Washer, Plain, Term. Stud, Outer	X-261	1	Key, Woodruff, #6
MG-22	1	Washer, Plain, Term. Stud, Inner	<u>Miscellaneous Parts</u>		
MH-28	1	Connector	EBA-2	1	BENDIX DRIVE ASSEMBLY
ML-1012†	1	Brush, Insulated	EB-108	2	Lockwasher
ML-3005S	1	FIELD COIL PACKAGE	EB-7806	1	Screw, Spring, Head
ML-1007	1	Coil, Field, U. L.	EB-7807	1	Screw, Spring, Shaft
ML-1008	1	Coil, Field, L. R.	EB-7819S	1	Sleeve, Compression
ML-1009	1	Coil, Field, L. L.	EB-8503	1	Head, Driving
ML-1010	1	Coil, Field, U. R.	EB-8705	1	SPRING, DRIVE
MLA-28	1	Stud, Terminal	EB-8734	1	Ring, Take Up
MN-21	1	Pin, Dowel	EBA-211	1	Shaft & Pinion
MR-32	1	Insulation, Field Connection	ML-1024	1	Band, Cover
8X-179	2	Nut, Term. Stud, Hex. 3/8-16	ML-2027A	1	Bearing Assy., Intermediate
12X-201	2	Lockwasher, Term. Stud, 3/8	ML-21A	1	BEARING, ABSORBENT BRONZE
12X-1014	2	Lockwasher, Thru Bolt, 5/16	PS-1050B	1	Housing Assy., Pinion
<u>Comm. End Head Assembly & Parts Used With</u>			MAB-88	1	Pin, Dowel
ML-2002CS	1	Head Assy., Comm. End	MG-77A	1	BEARING, ABSORBENT BRONZE
MAL-40A	1	BEARING, ABSORBENT BRONZE	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
ML-122	1	Felt	8X-794	1	Nut, Cover Band, Square #10-32
ML-1034S†	2	Brush, Grounded	† BRUSH SET, SERVICE ML-2012S.		
MR-1062A	1	Cover, Bearing, Comm. End	* Use as required.		
MZ-19	4	Spring, Brush			
12X-196	6	Lockwasher, Head Screw, #10			
8X-709	6	Screw, C. E. Head, Fill. Hd. #10-32x7/16			

UNIT	APPLICATION
ML-4309	Massey-Harris

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



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4310,A STARTING MOTOR PARTS LIST

ML-4310,A

Frame & Field Assembly & Parts Used With			Switch Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MAS-20	2	Bolt, Thru	*	1	Connector
(ML-2125)	1	Frame & Field Assy.	*	1	SOLENOID STARTING SWITCH
GK-38	4	Screw, Pole Shoe	8X-164	2	Nut, Hex. 5/16-18
MAW-37	1	Bushing, Ins., Term. Stud	8X-173	1	Nut, Hex. #10-32
MAX-35	1	Washer, Ins., Term. Stud	12X-196	1	Lockwasher, #10
MAX-44	1	Washer, Plain, Term. Stud, Outer	12X-1014	2	Lockwasher, 5/16
MG-22	1	Washer, Plain, Term. Stud, Inner	*	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
MH-28	1	Connector	*	2	Lockwasher, Switch Mtg. Sc., Skpf. #10
ML-1012 †	1	Brush	<u>Miscellaneous Parts</u>		
ML-3005S	1	FIELD COIL PACKAGE	EBA-11	1	BENDIX DRIVE ASSY.
ML-1007	1	Coil, Field, U.L.	EB-108	2	Lockwasher
ML-1008	1	Coil, Field, L.R.	EB-7806	1	Screw, Spring, Head
ML-1009	1	Coil, Field, L.L.	EB-7807	1	Screw, Spring, Shaft
ML-1010	1	Coil, Field, U.R.	EB-7819S	1	Sleeve, Compression
MLA-28	1	Stud, Terminal	EB-8503	1	Head, Driving
MN-21	1	Pin, Dowel	EB-8705	1	SPRING, DRIVE
MR-32	1	Insulation, Field Connection	EB-8734	1	Ring, Take-Up
8X-179	2	Nut, Term. Stud, Hex. 3/8-16	EBA-1111	1	Shaft & Pinion
12X-201	2	Lockwasher, Term. Stud, 3/8	GCE-1024J	1	Band, Cover
12X-1014	2	Lockwasher, Thru Bolt, 5/16	ML-2027A	1	BEARING ASSY., INTERMEDIATE
<u>Comm. End Head Assembly & Parts Used With</u>			ML-21A	1	Bearing, Abs. Bronze
ML-2002C	1	Head Assy., Comm. End	PS-1050	1	Housing Assy., Pinion
MAL-40A	1	Bearing, Abs. Bronze	MAB-88	1	Pin, Dowel
ML-122	1	Felt	MG-77A	1	BEARING, ABS. BRONZE
ML-1034S †	2	Brush, Grounded	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MR-1062A	1	Cover, Bearing, Comm. End	8X-794	1	Nut, Cover Band, Square #10-32
MZ-19	4	Spring, Brush	† BRUSH SET, SERVICE ML-2012S.		
8X-709	6	Screw, C.E. Head, Fill. Hd. #10-32x7/16	* See table following parts list for part number applying to assembly wanted.		
12X-544	6	Lockwasher, C.E. Head Screw, #10			
<u>Armature Assembly & Parts Used With</u>					
GK-174A	1	Washer, Arm. Shaft, C.E.			
MG-61	1	Washer, Arm. Thrust, Intermediate			
ML-2035A	1	ARMATURE			
X-261	1	Key, Woodruff, #6			

Assembly No.	Switch	Connector	Screw	Lockwasher
ML-4310	SST-4004	MBR-40L	8X-321	X-1270
ML-4310A	None	None	8X-312	12X-196

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4312 STARTING MOTOR PARTS LIST

ML-4312

Frame & Field Assembly With Terminal Stud & Parts Used With				Switch Assembly & Parts Used With					
Part No.	No. Used	Name of Part							
			1	2	3	4	5		
MAS-20	2	Bolt, Thru							
(ML-2125)	1	Frame & Field Assy.							
GK-38	4	Screw, Pole Shoe							
MAW-37	1	Bushing, Ins. Term. Stud							
MAX-35	2	Washer, Ins. Term. Stud							
MAX-44	1	Washer, Plain Term. Stud Outer							
MG-22	1	Washer, Plain Term. Stud Inner							
MH-28	1	Connector							
ML-1007	1	Coil, Field, U.L.							
ML-1008	1	Coil, Field, L.R.							
ML-1009	1	Coil, Field, L.L.							
ML-1010	1	Coil, Field, U.R.							
ML-1012	1	Brush Assy., Insulated							
MLA-28	1	Stud, Terminal, 3/8-16							
MN-21	1	Pin, Dowel							
MR-32	1	Insulation, Field Connection							
8X-179	2	Nut, Terminal Stud, Hex. 3/8-16							
X-201	2	Lockwasher, Term. Stud 3/8							
12X-1014	2	Lockwasher, Thru Bolt, 5/16							
Comm. End Head Assembly & Parts Used With									
ML-2002C	1	Head Assy., Comm. End							
MAL-40A	1	Bearing, Abs. Bronze							
ML-122	1	Felt							
ML-1034	2	Brush, Grounded							
MR-1062A	1	Cover, Bearing, Comm. End							
MZ-16	2	Holder, Brush							
MZ-19	4	Spring, Brush							
X-521	4	Rivet, Brush Holder, Oval Hd., Tub. 1/4x9/32							
12X-544	6	Lockwasher, C.E. Head Sc., #10							
X-709	6	Screw, C.E. Head, Fil. Hd. #10-32x7/16							
Armature Assembly & Parts Used With									
GK-174A	1	Washer, Plain, 1/2							
MG-61	1	Washer, Plain, 7/8							
ML-2035	1	Armature							
X-281	1	Key, Woodruff, #6							

Part No.	No. Used	Name of Part					
			1	2	3	4	5
SS-6LA	1	Connector					
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-2	1	Bendix Drive Assembly					
EB-108	2	Washer, Lock					
EB-7806	1	Screw, Spring, Head					
EB-7807	1	Screw, Spring, Shaft					
EB-7819S	1	Sleeve, Compression					
EB-8503	1	Head, Driving					
EB-8705	1	Spring, Drive					
EB-8734	1	Ring, Take Up					
EBA-211	1	Shaft & Pinion					
GCE-24C	1	Band, Cover					
ML-2027A	1	Bearing Assy., Intermediate					
ML-21A	1	Bearing, Absorbent Bronze					
PS-1050A	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					

Unit	Application
ML-4312	Diamond T

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4313 STARTING MOTOR PARTS LIST

ML-4313
(Issued 4-12-51)

Frame & Field Assembly & Parts Used With			Switch Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MAS-20	2	Bolt, Thru	MBR-40	1	Connector
(ML-2125)	1	Frame & Field Assy.	SST-4004	1	SOLENOID SWITCH
GK-38	4	Screw, Pole Shoe	8X-164	2	Nut, Hex. 5/16-18
MAW-37	1	Bushing, Ins., Term. Stud	8X-173	1	Nut, Hex. #10-32
MAX-35	2	Washer, Ins., Term. Stud	12X-196	1	Lockwasher, #10
MAX-44	1	Washer, Plain, Term. Stud, Outer	12X-1014	2	Lockwasher, 5/16
MG-22	1	Washer, Plain, Term. Stud, Inner	8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
MH-28	1	Connector	X-1270	2	Washer, Switch Mtg. Sc., Skpf. #10
ML-1012†	1	Brush, Insulated	<u>Miscellaneous Parts</u>		
ML-3005S	1	FIELD COIL PACKAGE	EBA-11	1	BENDIX DRIVE ASSY.
ML-1007	1	Coil, Field, U.L.	EB-108	2	Lockwasher
ML-1008	1	Coil, Field, L.R.	EB-7806	1	Spring, Screw, Head
ML-1009	1	Coil, Field, L.L.	EB-7807	1	Screw, Spring, Shaft
ML-1010	1	Coil, Field, U.R.	EB-7819S	1	Sleeve, Compression
MLA-28	1	Stud, Terminal	EB-8503	1	Head, Drive
MN-21	1	Pin, Dowel	EB-8705	1	SPRING, DRIVE
MR-32	1	Insulation, Field Connection	EB-8734	1	Ring, Take-Up
8X-179	2	Nut, Term. Stud, Hex. 3/8-16	EBA-1111	1	Shaft & Pinion
12X-201	2	Lockwasher, Term. Stud, 3/8	GCE-24	1	Band, Cover
12X-1014	2	Lockwasher, Thru Bolt, 5/16	ML-2027A	1	BEARING ASSY., INTERMEDIATE
<u>Comm. End Head Assembly & Parts Used With</u>			ML-21A	1	Bearing, Abs. Bronze
ML-2002CS	1	Head Assy., Comm. End	PS-1237	1	Housing Assy., Pinion
MAL-40A	1	Bearing, Abs. Bronze	MAB-88	1	Pin, Dowel
ML-122	1	Felt	MG-77A	1	BEARING, ABS. BRONZE
ML-1034S†	2	Brush, Grounded	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MR-1062A	1	Cover, Bearing, C.E.	8X-794	1	Nut, Cover Band, Square #10-32
MZ-19	4	Spring, Brush	† BRUSH SET, SERVICE ML-2012S.		
12X-196	6	Lockwasher, Head Screw, #10			
8X-709	6	Screw, C.E. Head, Fill. Hd. #10-32x7/16			
<u>Armature Assembly & Parts Used With</u>					
GK-174A	1	Washer, Arm. Shaft, C.E.			
MG-61	1	Washer, Arm. Thrust, Intermediate			
ML-2035A	1	ARMATURE			
X-261	1	Key, Woodruff, #6			

UNIT	APPLICATION
ML-4313	Hanson Clutch

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4314 STARTING MOTOR PARTS LIST

ML-4314
(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
MAS-20	2	Bolt, Thru	EBA-95	1	BENDIX DRIVE ASSY.
(ML-2125)	1	Frame & Field Assy.	EB-108	2	Lockwasher
GK-38	4	Screw, Pole Shoe	EB-4503	1	Head
MAW-37	1	Bushing, Ins., Term. Stud	EB-4506	1	Screw, Spring, Head
MAX-35	2	Washer, Ins., Term. Stud	EB-4507	1	Screw, Spring, Shaft
MAX-44	1	Washer, Plain, Term. Stud, Outer	EB-4515	1	Stop, Pinion
MG-22	1	Washer, Plain, Term. Stud, Inner	EB-4516	1	Screw, Pinion Stop
MH-28	1	Connector	EBA-5005	1	SPRING, DRIVE
ML-1012†	1	Brush, Insulated	EBA-5219S	1	Sleeve, Compression
ML-3005S	1	FIELD COIL PACKAGE	EBA-5411	1	Shaft, & Pinion
ML-1007	1	Coil, Field, U.L.	GCE-24	1	Band, Cover
ML-1008	1	Coil, Field, L.R.	ML-95	1	Ring, Lock, Intermediate Bearing
ML-1009	1	Coil, Field, L.L.	ML-1094	1	Bearing Assy., Intermediate
ML-1010	1	Coil, Field, U.R.	ML-21A	1	BEARING, ABS. BRONZE
MLA-28	1	Stud, Terminal	PS-1272	1	Housing Assy., Pinion
MN-21	1	Pin, Dowel	ML-18A	1	BEARING, ABS. BRONZE
MR-32	1	Insulation, Field Connection	MN-21	1	Pin, Dowel
8X-179	2	Nut, Term. Stud, Hex. 3/8-16	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
12X-201	2	Lockwasher, Term. Stud, 3/8	8X-794	1	Nut, Cover Band, Square #10-32
12X-1014	2	Lockwasher, Thru Bolt, 5/16			
<u>Comm. End Head Assembly & Parts Used With</u>			† BRUSH SET, SERVICE ML-2012S.		
ML-2002CS	1	Head Assy., Comm. End			
MAL-40A	1	BEARING, ABS. BRONZE			
ML-122	1	Felt			
ML-1034S†	2	Brush, Grounded			
MR-1062A	1	Cover, Bearing, Comm. End			
MZ-19	4	Spring, Brush			
12X-196	6	Lockwasher, Head Screw, #10			
8X-709	6	Screw, C.E. Head, Fill. Hd. #10-32x7/16			
<u>Armature Assembly & Parts Used With</u>					
MG-61	2	Washer, Arm. Thrust, Intermediate			
ML-2126	1	ARMATURE			
X-261	2	Key, Woodruff, #6			
<u>Switch Assembly & Parts Used With</u>					
MBR-40L	1	Connector			
SSW-4001	1	SOLENOID SWITCH			
8X-164	2	Nut, Hex. 5/16-18			
8X-173	1	Nut, Hex. #10-32			
12X-196	1	Lockwasher, #10			
12X-1014	2	Lockwasher, 5/16			
8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16			
X-1270	2	Washer, Switch Mtg. Sc., Skpf. #10			

UNIT	APPLICATION
ML-4314	Harnischfeger, Universal

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4316 STARTING MOTOR PARTS LIST

ML-4316

Frame & Field Assembly & Parts Used With			Armature Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MAS-20	2	Bolt, Thru	MG-61	2	Washer, Thrust, Arm. Shaft
(ML-2117)	1	Frame & Field Assy.	ML-2126	1	Armature
GK-38	4	Screw, Pole Shoe	X-261	2	Key, Woodruff, #6
MAW-37	1	Bushing, Ins., Term. Stud	<u>Miscellaneous Parts</u>		
MAX-35	2	Washer, Ins., Term. Stud	EBA-95	1	Bendix Drive Assy.
MAX-44	1	Washer, Plain, Term. Stud, Outer	EB-108	2	Lockwasher
MG-22	1	Washer, Plain, Term. Stud, Inner	EB-4503	1	Head
MH-28	1	Connector	EB-4506	1	Screw, Spring, Head
ML-1012†	1	Brush Assy., Insulated	EB-4507	1	Screw, Spring, Shaft
ML-3005S	1	Field Coil Package	EB-4515	1	Stop, Pinion
ML-1007	1	Coil, Field, U.L.	EB-4516	1	Screw, Pinion Stop
ML-1008	1	Coil, Field, L.R.	EBA-5005	1	Spring, Drive
ML-1009	1	Coil, Field, L.L.	EBA-5219S	1	Sleeve, Compression
ML-1010	1	Coil, Field, U.R.	EBA-5411	1	Shaft & Pinion
MLA-28	1	Stud, Terminal	GCE-24	1	Band, Cover
MN-21	1	Pin, Dowel	ML-95	1	Ring, Lock, Intermediate Brg.
MR-32	1	Insulation, Field Connection	ML-1094	1	Bearing Assy., Intermediate
8X-179	2	Nut, Terminal Stud, Hex. 3/8-16	ML-21A	1	Bearing, Absorbent Bronze
12X-201	2	Lockwasher, Term. Stud, 3/8	PS-1272A	1	Housing Assy., Pinion
12X-1014	2	Lockwasher, Thru Bolt, 5/16	ML-18A	1	Bearing, Absorbent Bronze
<u>Comm. End Head Assembly & Parts Used With</u>			MN-21	1	Pin, Dowel
ML-2002C	1	Head Assy., Comm. End	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MAL-40A	1	Bearing, Abs., Bronze	8X-794	1	Nut, Cover Band, Square #10-32
ML-122	1	Felt	† Brush Set, Service ML-2012S.		
ML-1034S†	2	Brush, Grounded			
MR-1062A	1	Cover, Bearing, Comm. End			
MZ-19	4	Spring, Brush			
12X-544	6	Lockwasher, C.E. Head Screw, #10			
8X-709	6	Screw, C.E. Head, Fill. Hd. #10-32x7/16			

UNIT	APPLICATION
ML-4316	Continental

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4318 STARTING MOTOR PARTS LIST

ML-4318

Frame & Field Assembly & Parts Used With			Miscellaneous Parts		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MAS-20	2	Bolt, Thru	EBA-2	1	Bendix Drive Assembly
(ML-2117)	1	Frame & Field Assy.	EB-108	2	Lockwasher
GK-38	4	Screw, Pole Shoe	EB-7806	1	Screw, Spring, Head
MAW-37	1	Bushing, Ins., Term. Stud	EB-7807	1	Screw, Spring, Shaft
MAX-35	2	Washer, Ins., Term. Stud	EB-7819S	1	Sleeve, Compression
MAX-44	1	Washer, Plain, Term. Stud, Outer	EB-8503	1	Head, Driving
MG-22	1	Washer, Plain, Term. Stud, Inner	EB-8705	1	Spring, Drive
MH-28	1	Connector	EB-8734	1	Ring, Take-Up
ML-1012	1	Brush Assy., Insulated	EBA-211	1	Shaft & Pinion
ML-3005S	1	Field Coil Package	GCE-24	1	Band, Cover
ML-1007	1	Coil, Field, U.L.	ML-2027A	1	Bearing Assy., Intermediate
ML-1008	1	Coil, Field, L.R.	ML-21A	1	Bearing, Abs. Bronze
ML-1009	1	Coil, Field, L.L.	PS-1060	1	Housing Assy., Pinion
ML-1010	1	Coil, Field, U.R.	MAB-88	1	Pin, Dowel
MLA-28	1	Stud, Terminal	MG-77A	1	Bearing, Abs. Bronze
MN-21	1	Pin, Dowel	X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MR-32	1	Insulation Field Connection	8X-794	1	Nut, Cover Band, Square #10-32
8X-179	2	Nut, Term. Stud, Hex. 3/8-16			
12X-201	2	Lockwasher, Term. Stud, 3/8			
12X-1014	2	Lockwasher, Thru Bolt, 5/16			
Comm. End Head Assembly & Parts Used With					
ML-2002C	1	Head Assy., Comm. End			
MAL-40A	1	Bearing, Abs. Bronze			
ML-122	1	Felt			
ML-1034S†	2	Brush, Grounded			
MR-1062A	1	Cover, Bearing, C.E.			
MZ-19	4	Spring, Brush			
12X-544	6	Lockwasher, C.E. Head Sc., #10			
X-709	6	Screw, C.E. Head, Fill. Hd. #10-32x7/16			
Armature Assembly & Parts Used With					
GK-174A	1	Washer, Thrust Arm. Shaft 1/2			
MG-61	1	Washer, Thrust, Arm. Shaft, 7/8			
ML-2035	1	Armature			
X-261	1	Key, Woodruff, #6			

† Brush Set, Service ML-2012S.

(Issued 7-15-48)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4319 STARTING MOTOR PARTS LIST

ML-4319

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
MAS-20	2	Bolt, Thru
(ML-2125)	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAW-37	1	Bushing, Ins., Term. Stud
MAX-35	2	Washer, Ins., Term. Stud
MAX-44	1	Washer, Plain, Term. Stud, Outer
MG-22	1	Washer, Plain, Term. Stud, Inner
MH-28	1	Connector
ML-1012 †	1	Brush, Insulated
ML-3005S	1	FIELD COIL PACKAGE
ML-1007	1	Coil, Field, U.L.
ML-1008	1	Coil, Field, L.R.
ML-1009	1	Coil, Field, L.L.
ML-1010	1	Coil, Field, U.R.
MLA-28	1	Stud, Terminal
MN-21	1	Pin, Dowel
MR-32	1	Insulation, Field Connection
8X-179	2	Nut, Term. Stud, Hex. 3/8-16
12X-201	2	Lockwasher, Term. Stud, 3/8
12X-1014	2	Lockwasher, Thru Bolt, 5/16

Comm. End Head Assembly & Parts Used With

GK-174A	1	Washer, Plain 1/2
ML-2002C	1	Head Assy., Comm. End
MAL-40A	1	BEARING, ABS. BRONZE
ML-122	1	Felt
ML-1034S†	2	Brush, Grounded
MR-1062A	1	Cover, Bearing, Comm. End
MZ-19	4	Spring, Brush
12X-544	6	Lockwasher, C.E. Head Screw, #10
8X-709	6	Screw, C.E. Head, Fill. Hd. #10-32x7/16

Armature Assembly & Parts Used With

MG-61	1	Washer, Arm, Thrust, Intermediate
ML-2085	1	ARMATURE
X-261	2	Key, Woodruff, #6

Switch Assembly & Parts Used With

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

Miscellaneous Parts

EB-45A	1	BENDIX DRIVE ASSEMBLY
EB-108	2	Lock Washer
EB-4503	1	Head, Driving
EB-4505	1	SPRING, DRIVE
EB-4506	1	Screw, Spring, Head
EB-4507	1	Screw, Spring, Shaft
EB-4511A	1	Shaft & Pinion
EB-4515	1	Stop, Pinion
EB-4516	1	Screw, Pinion Stop
EB-4519S	1	Sleeve, Compression
GCE-24	1	Band, Cover
ML-2027A	1	BEARING ASSY., INTERMEDIATE
ML-21A	1	Bearing, Absorbent Bronze
PS-1286	1	Housing Assy., Pinion
MAB-88	1	Pin, Dowel
ML-18A	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 ML-2012S.

UNIT	APPLICATION
ML-4319	Harnishfeger, Hercules

(Issued 1-4-49)

Printed in U. S. A.

File in
Equipment & Parts List Binder

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4321M STARTING MOTOR PARTS LIST

ML-4321M

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
MAS-20	2	Bolt, Thru	MBR-40	1	Connector
(ML-2117B)	1	Frame & Field Assy.	SST-4005M	1	SOLENOID SWITCH
GK-38C	4	Screw, Pole Shoe	12X-196	1	Lockwasher, #10
MAW-37A	1	Bushing, Ins., Term. Stud	12X-1014	2	Lockwasher, 5/16
MAX-35	2	Washer, Ins., Term. Stud	X-2853	1	Hex. Nut, #10-32
MC-51B	1	Washer, Plain, Term. Stud, Inner	X-2976	2	Hex. Nut, 5/16-18
MH-28	1	Connector	19X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
ML-3005S	1	FIELD COIL PACKAGE	X-1270	2	Washer, Switch Mtg., Skpf. #10
ML-1007	1	Field Coil, U.L.	<u>Miscellaneous Parts</u>		
ML-1008	1	Field Coil, L.R.	EBA-11A	1	BENDIX DRIVE ASSY.
ML-1009	1	Field Coil, L.L.	EB-108A	2	Lockwasher
ML-1010	1	Field Coil, U.R.	EB-7806A	1	Screw, Spring, Head
ML-1012	† 1	Brush Assy., Insulated	EB-7807A	1	Screw, Spring, Shaft
MLA-28	1	Stud, Terminal, 3/8x16	EB-7819SA	1	Sleeve, Compression
MN-21A	1	Pin, Dowel	EB-8503A	1	Head, Drive
MN-47B	1	Washer, Plain, Term. Stud Outer	EB-8705A	1	Spring, Drive
MR-32	1	Insulation, Field Connection	EB-8734A	1	Take-Up Ring
12X-201	2	Lockwasher, Term. Stud 3/8	EBA-1131A	1	Shaft, & Pinion
X-2845	2	Nut. Term. Stud, Hex. 3/8x16	GCE-1024F	1	Band, Cover
12X-1014	2	Lockwasher, Thru Bolt, 5/16	ML-2027D	1	Bearing Assy., Intermediate
<u>Comm. End Head Assembly & Parts Used With</u>			ML-21A	1	Bearing, Abs. Bronze
ML-2002D	1	Head Assy., Comm. End	PS-1059E	1	Housing Assy., Pinion
MAL-40A	1	BEARING, ABS. BRONZE	MAB-88	1	Pin, Dowel
ML-122	1	Felt	MG-77A	1	Bearing Abs. Bronze
ML-1034S†	2	Brush, Grounded	X-2873	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/4
MR-1062A	1	Cover, Bearing, C.E.	X-2875	1	Nut, Cover Band, Square #10-32
MZ-19A	4	Spring, Brush	† BRUSH SET, SERVICE ML-2012S.		
12X-544	6	Lockwasher, C.E. Head Sc., #10			
19X-709	6	Screw, C.E. Head, Fil. Hd. #10-32x7/16			
<u>Armature Assembly & Parts Used With</u>					
GK-174A	1	Washer, Arm. Thrust, C.E.			
MG-61	1	Washer, Thrust, Arm. Shaft, Int.			
ML-2131M	1	ARMATURE			
X-261	2	Key, Woodruff, #6			

UNIT	APPLICATION
ML-4321M	Gray Marine

(Issued 8-25-48)

Printed in U. S. A.

File in
Equipment & Parts List Binder

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



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4322 STARTING MOTOR PARTS LIST

ML-4322

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
MAS-20	2	Bolt, Thru
(ML-2125)	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAW-37	1	Bushing, Ins., Term. Stud
MAX-35	2	Washer, Ins., Term. Stud
MAX-44	1	Washer, Plain, Term. Stud, Outer
MG-22	1	Washer, Plain, Term. Stud, Inner
MH-28	1	Connector
ML-1012 †	1	Brush, Insulated
ML-3005S	1	FIELD COIL PACKAGE
ML-1007	1	Coil, Field, U.L.
ML-1008	1	Coil, Field, L.R.
ML-1009	1	Coil, Field, L.L.
ML-1010	1	Coil, Field, U.R.
MLA-28	1	Stud, Terminal, 3/8-16
MN-21	1	Pin, Dowel
MR-32	1	Insulation, Field Connection
8X-179	2	Nut, Term. Stud, Hex. 3/8-16
X-201	2	Lockwasher, Term. Stud, 3/8
12X-1014	2	Lockwasher, Thru Bolt, 5/16

Comm. End Head Assembly & Parts Used With

ML-2002C	1	Head Assy., Comm. End
MAL-40A	1	Bearing, Abs. Bronze
ML-122	1	Felt
ML-1034S †	2	Brush, Grounded
MR-1062A	1	Cover, Bearing, Comm. End
MZ-19	4	Spring, Brush
12X-544	6	Lockwasher, C.E. Head Screw, #10
8X-709	6	Screw, C.E. Head, Fill. Hd. #10-32x7/16

Armature Assembly & Parts Used With

GK-174A	1	Washer, Armature Thrust, C.E.
MG-61	1	Washer, Arm. Thrust, Intermediate
ML-2085	1	ARMATURE
X-261	2	Key, Woodruff, #6

Switch Assembly & Parts Used With

MBR-40L	1	Connector
SSW-4001	1	SOLENOID SWITCH
8X-173	1	Hex. Nut, #10-32
12X-196	1	Lockwasher, #10
8X-164	2	Hex. Nut, 5/16-24
12X-1014	2	Lockwasher, 5/16

Switch Assembly (Continued)

Part No.	No. Used	Name of Part
8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
X-1270	2	Washer, Switch Mtg., Skpf. #10

Miscellaneous Parts

EB-45A	1	BENDIX DRIVE ASSEMBLY
EB-108	2	Lockwasher
EB-4503	1	Head, Driving
EB-4505	1	SPRING, DRIVE
EB-4506	1	Screw, Spring, Head
EB-4507	1	Screw, Spring, Shaft
EB-4511A	1	Shaft, & Pinion
EB-4515	1	Stop, Pinion
EB-4516	1	Screw, Pinion Stop
EB-4519S	1	Sleeve, Compression
GCE-24	1	Band, Cover
ML-2027A	1	BEARING, ASSY., INTERMEDIATE
ML-21A	1	Bearing, Absorbent Bronze
PS-1081 E	1	Housing Assy., Pinion
MAB-88	1	Pin, Dowel
ML-18A	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 ML-2012S.

UNIT	APPLICATION
ML-4322	Ward LaFrance, Diamond T

Printed in U. S. A.

(Issued 6-15-48)

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

ML-4324 STARTING MOTOR PARTS LIST

ML-4324

Frame & Field Assembly & Parts Used With			Switch Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MAS-20	2	Bolt, Thru	MBR-40L	1	Connector
(ML-2125)	1	Frame & Field Assy.	SST-4004	1	SWITCH, SOLENOID
GK-38	4	Screw, Pole Shoe	8X-164	2	Nut, Hex. 5/16-18
MAW-37	1	Bushing, Ins., Term. Stud	8X-173	1	Nut, Hex. #10-32
MAX-35	2	Washer, Ins., Term. Stud	12X-196	1	Lockwasher, #10
MAX-44	1	Washer, Plain, Term. Stud, Outer	12X-1014	2	Lockwasher, 5/16
MG-22	1	Washer, Plain, Term. Stud, Inner	8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
MH-28	1	Connector	X-1270	2	Washer, Sw. Mtg. Sc., Skpf. #10
ML-1012†	1	Brush, Insulated	<u>Miscellaneous Parts</u>		
ML-3005S	1	FIELD COIL PACKAGE	EBA-2	1	BENDIX DRIVE ASSY.
ML-1007	1	Coil, Field, U.L.	EB-108	2	Lockwasher
ML-1008	1	Coil, Field, L.R.	EB-7806	1	Screw, Spring, Head
ML-1009	1	Coil, Field, L.L.	EB-7807	1	Screw, Spring, Shaft
ML-1010	1	Coil, Field, U.R.	EB-7819S	1	Sleeve, Compression
MLA-28	1	Stud, Terminal	EB-8503	1	Head, Driving
MN-21	1	Pin, Dowel	EB-8705	1	SPRING, DRIVE
MR-32	1	Insulation, Field Connection	EB-8734	1	Ring, Take-Up
8X-179	2	Nut, Term. Stud, Hex. 3/8-16	EBA-211	1	Shaft & Pinion
X-201	2	Lockwasher, Term. Stud, 3/8	GCE-24	1	Band, Cover
12X-1014	2	Lockwasher, Thru Bolt, 5/16	ML-2027A	1	BEARING ASSY., INTERMEDIATE
<u>Comm. End Head Assembly & Parts Used With</u>			ML-21A	1	Bearing, Abs. Bronze
ML-2002C	1	Head Assy. Comm. End	PS-1060	1	Housing Assy., Pinion
MAL-40A	1	BEARING, ABS. BRONZE	MAB-88	1	Pin, Dowel
ML-122	1	Felt	MG-77A	1	BEARING, ABS. BRONZE
ML-1034S†	2	Brush, Grounded	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MR-1062A	1	Cover, Bearing, Comm. End	8X-794	1	Nut, Cover Band, Square #10-32
MZ-19	4	Spring, Brush	† BRUSH SET, SERVICE ML-2012S.		
12X-544	6	Lockwasher, C.E. Head Sc., #10			
8X-709	6	Screw, C.E. Head, Fill. Hd. #10-32x7/16			
<u>Armature Assembly & Parts Used With</u>					
GK-174A	1	Washer, Thrust, C.E.			
MG-61	1	Washer, Thrust, Intermediate			
ML-2035A	1	ARMATURE			
X-261	1	Key, Woodruff, #6			

UNIT	APPLICATION
ML-4324	Chris Craft

(Issued 8-25-48)

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4325 STARTING MOTOR PARTS LIST

ML-4325

<u>Frame & Field Assembly & Parts Used With</u>			<u>Switch Assembly & Parts Used With</u>		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MAS-20	2	Bolt, Thru	MBR-40L	1	Connector
(ML-3125)	1	Frame & Field Assembly	SST-4004	1	SOLENOID SWITCH
GK-38	4	Screw, Pole Shoe	8X-164	2	Nut, Hex. 5/16-18
MAW-37	1	Bushing, Ins., Term. Stud	8X-173	1	Nut, Hex. #10-32
MAX-35	2	Washer, Ins., Term. Stud	12X-196	1	Lockwasher, #10
MAX-44	1	Washer, Plain, Term. Stud, Outer	12X-1014	2	Lockwasher, 5/16
MG-22	1	Washer, Plain, Term. Stud, Inner	8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
MH-28	1	Connector	X-1270	2	Washer, Term. Stud, Skpf. #10
ML-1012†	1	Brush, Insulated	<u>Miscellaneous Parts</u>		
ML-3005S	1	FIELD COIL PACKAGE	EB-99	1	BENDIX DRIVE ASSEMBLY
ML-1007	1	Coil, Field, U.L.	EB-108	2	Lockwasher
ML-1008	1	Coil, Field, L.R.	EB-7805	1	SPRING, DRIVE
ML-1009	1	Coil, Field, L.L.	EB-7806	1	Screw, Spring, Head
ML-1010	1	Coil, Field, U.R.	EB-7807	1	Screw, Spring, Shaft
MLA-28	1	Stud, Terminal, 3/8-16	EB-7819S	1	Sleeve, Compression
MN-21	1	Pin, Dowel	EB-8503	1	Head, Driving
MR-32	1	Insulation, Field Connection	EB-8734	1	Ring, Take-Up
8X-179	2	Nut, Term. Stud, Hex. 3/8-16	EB-9911	1	Shaft, & Pinion
12X-201	2	Lockwasher, Term. Stud, 3/8	GCE-24	1	Band, Cover
12X-1014	2	Lockwasher, Thru Bolt, 5/16	ML-2027A	1	BEARING ASSY., INTERMEDIATE
<u>Comm. End Head Assembly & Parts Used With</u>			ML-21A	1	Bearing, Abs. Bronze
ML-3002A	1	Head Assy., Comm. End	PS-1060	1	Housing Assy., Pinion
MAL-40A	1	BEARING, ABS. BRONZE	MAB-88	1	Pin, Dowel
ML-122	1	Felt	MG-77A	1	BEARING, ABS. BRONZE
ML-1034S†	2	Brush, Grounded	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MR-1062A	1	Cover, Bearing, C.E.	8X-794	1	Nut, Cover Band, Square #10-32
MZ-19	4	Spring, Brush	† BRUSH SET, SERVICE ML-2012S.		
12X-196	6	Lockwasher, Head Screw, #10			
8X-709	6	Screw, C.E. Head, Fill. Hd. #10-32x7/16			
<u>Armature Assembly & Parts Used With</u>					
GK-174A	1	Washer, Arm. Shaft, C.E.			
MG-61	1	Washer, Arm. Thrust, Intermediate			
ML-2035A	1	ARMATURE			
X-261	1	Key, Woodruff, #6			

UNIT	APPLICATION
ML-4325	Chris Craft

(Issued 9-19-49)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4327 STARTING MOTOR PARTS LIST

ML-4327

Frame & Field Assembly & Parts Used With			Armature Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MAS-20	2	Bolt, Thru	GK-174A	1	Washer, Arm. Shaft, C.E.
(ML-2117)	1	Frame & Field Assy.	MG-61	1	Washer, Arm. Thrust, Intermediate
GK-38	4	Screw, Pole Shoe	ML-2085	1	ARMATURE
MAW-37	1	Bushing, Ins., Term. Stud	X-261	2	Key, Woodruff, #6
MAX-35	2	Washer, Ins., Term. Stud	<u>Miscellaneous Parts</u>		
MAX-44	1	Washer, Plain, Term. Stud, Outer	EB-45A	1	BENDIX DRIVE ASSEMBLY
MG-22	1	Washer, Plain, Term. Stud, Inner	EB-108	2	Lockwasher
MH-28	1	Connector	EB-4503	1	Head, Driving
ML-1012†	1	Brush	EB-4505	1	SPRING, DRIVE
ML-3005S	1	FIELD COIL PACKAGE	EB-4506	1	Screw, Spring, Head
ML-1007	1	Coil, Field, U.L.	EB-4507	1	Screw, Spring, Shaft
ML-1008	1	Coil, Field, L.R.	EB-4511A	1	Shaft & Pinion
ML-1009	1	Coil, Field, L.L.	EB-4515	1	Stop, Pinion
ML-1010	1	Coil, Field, U.R.	EB-4516	1	Screw, Pinion Stop
MLA-28	1	Stud, Terminal	EB-4519S	1	Sleeve, Compression
MN-21	1	Pin, Dowel	GCE-24	1	Band, Cover
MR-32	1	Insulation, Field Connection	ML-2027A	1	BEARING ASSY., INTERMEDIATE
8X-179	2	Nut, Term. Stud, Hex. 3/8-16	ML-21A	1	Bearing, Abs. Bronze
12X-201	2	Lockwasher, Term. Stud, 3/8	PS-1081E	1	Housing Assy., Pinion
12X-1014	2	Lockwasher, Thru Bolt, 5/16	MAB-88	1	Pin, Dowel
<u>Comm. End Head Assembly & Parts Used With</u>			ML-18A	1	BEARING, ABS. BRONZE
ML-2002C	1	Head Assy., Comm. End	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MAL-40A	1	BEARING, ABS. BRONZE	8X-794	1	Nut, Cover Band, Square #10-32
ML-122	1	Felt	† BRUSH SET, SERVICE ML-2012S.		
ML-1034S†	2	Brush, Grounded			
MR-1062A	1	Cover, Bearing, C.E.			
MZ-19	4	Spring, Brush			
12X-196	6	Lockwasher, Head Screw, #10			
8X-709	6	Screw, C.E. Head, Fill. Hd. #10-32x7/16			

UNIT	APPLICATION
ML-4327	Hercules

(Issued 9-30-49)

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



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4328 STARTING MOTOR PARTS LIST

ML-4328

Frame & Field Assembly & Parts Used With			Armature Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MAS-20	2	Bolt, Thru	GK-174A	1	Washer, Armature Thrust, C.E.
(ML-2117C)	1	Frame & Field Assy.	ML-128	*	Washer, Thrust, C.E. 1/32'' Thick
GK-38	4	Screw, Pole Shoe	ML-128A	*	Washer, Thrust, C.E. .015'' Thick
MAW-37	1	Bushing, Ins., Term. Stud	ML-128B	*	Washer, Thrust, C.E. .045'' Thick
MAX-35	2	Washer, Ins., Term. Stud	ML-2133	1	ARMATURE
MAX-44	1	Washer, Plain, Term. Stud, Outer			<u>Miscellaneous Parts</u>
MG-22	1	Washer, Plain, Term. Stud, Inner	GCE-24	1	Band, Cover
MH-28	1	Connector	ML-132	1	Head, Drive End
ML-3005S	1	FIELD COIL PACKAGE	X-367	1	Bearing, Ball, Sealed, S.A.E. #202
ML-1007	1	Coil, Field, U.L.	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
ML-1008	1	Coil, Field, L.R.	8X-794	1	Nut, Cover Band, Square, #10-32
ML-1009	1	Coil, Field, L.L.			
ML-1010	1	Coil, Field, U.R.			
ML-1012B	1	Brush, Insulated			
MLA-28	1	Stud, Terminal, 3/8-16			
MN-21	1	Pin, Dowel			
MR-32	1	Insulation, Field Connection			
8X-179	2	Nut, Term. Stud, Hex. 3/8-16			
12X-201	2	Lockwasher, Term. Stud, 3/8			
12X-1014	2	Lockwasher, Thru Bolt, 5/16			
					† BRUSH SET, SERVICE ML-2012AS.
Comm. End Head Assembly & Parts Used With					
ML-2002E	1	Head Assy., Comm. End			
MAL-40A	1	Bearing, Abs. Bronze			
ML-122	1	Felt			
ML-1034AS	2	Brush, Grounded			
MR-1062A	1	Cover, Bearing, Comm. End			
MZ-19	4	Spring, Brush			
12X-544	6	Lockwasher, C.E. Head Screw, #10			
8X-709	6	Screw, C.E. Head, Fill. Hd. #10-32x7/16			

UNIT	APPLICATION
ML-4328	Yale & Towne

(Issued 8-25-48)

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4329 STARTING MOTOR PARTS LIST

ML-4329
(Issued 2-14-55)

Frame & Field Assembly & Parts Used With			Armature Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MH-20	2	Bolt, Thru	GK-174A	1	Washer, Arm. Thrust, C. E.
ML-2117	1	Frame & Field Assembly	ML-128	*	Washer, Thrust, C. E., 1/32" Thick
GK-38	2	Screw, Pole Shoe	ML-128B	*	Washer, Thrust, C. E., .045" Thick
MAW-37	1	Bushing, Ins., Term. Stud	ML-134	1	Washer, Thrust, Intermediate
MAX-35	2	Washer, Ins., Term. Stud	ML-2035A	1	ARMATURE
MAX-44	1	Washer, Plain, Term. Stud, Outer	X-261	1	Key, Woodruff, D. E., #6
MG-22	1	Washer, Plain, Term. Stud, Inner	<u>Miscellaneous Parts</u>		
MH-28	1	Connector	EBA-2	1	BENDIX DRIVE ASSEMBLY
ML-1012†	1	Brush	EB-108	2	Lockwasher
ML-3005S	1	FIELD COIL PACKAGE	EB-7806	1	Screw, Spring, Head
ML-1007	1	Coil, Field, U. L.	EB-7807	1	Screw, Spring, Shaft
ML-1008	1	Coil, Field, L. R.	EB-7819S	1	Sleeve, Compression
ML-1009	1	Coil, Field, L. L.	EB-8503	1	Head, Driving
ML-1010	1	Coil, Field, U. R.	EB-8705	1	SPRING; DRIVE
MLA-28	1	Stud, Terminal	EB-8734	1	Ring, Take-Up
MN-21	1	Pin, Dowel	EBA-211	1	Shaft & Pinion
MR-32	1	Insulation, Field Connection	GCE-1024J	1	Band, Cover
8X-179	2	Nut, Term. Stud, Hex. 3/8-16	ML-82	1	Gasket, Intermediate Bearing
12X-201	2	Lockwasher, Term. Stud, 3/8	ML-2135	1	BEARING ASSY., INTERMEDIATE
12X-1014	2	Lockwasher, Thru Bolt, 5/16	GEG-49	1	Retainer, Felt Washer
<u>Comm. End Head Assembly & Parts Used With</u>			GT-78A	1	Washer, Felt
ML-2002CS	1	Head Assy., Comm. End	ML-92A	1	Bearing, Abs. Bronze
MAL-40A	1	Bearing, Abs. Bronze	PS-1295	1	Housing Assy., Pinion
ML-122	1	Felt	MG-77A	1	BEARING, ABS. BRONZE
ML-1034S†	2	Brush, Grounded	12X-195	4	Lockwasher, Int. Brg. Screw, #8
MR-1062A	1	Cover, Bearing, Comm. End	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MZ-19	4	Spring, Brush	8X-794	1	Nut, Cover Band, Square #10-32
12X-196	6	Lockwasher, Head Screw, #10	8X-878	4	Screw, Int. Bearing, Fill. Hd. #8-32x7/16
8X-709	6	Screw, C. E. Head, Fill. Hd. #10-32x7/16			

† BRUSH SET, SERVICE ML-2012S.

* Use as required.

UNIT	APPLICATION
ML-4329	J. I. Case

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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

ML-4330 STARTING MOTOR PARTS LIST

ML-4330

Frame & Field Assembly & Parts Used With			Miscellaneous Parts		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MAS-20	2	Bolt, Thru	EBA-11	1	BENDIX DRIVE ASSY.
(ML-2117)	1	Frame & Field Assy.	EB-108	2	Lockwasher
GK-38	4	Screw, Pole Shoe	EB-7806	1	Screw, Spring, Head
MAW-37	1	Bushing, Ins., Term. Stud	EB-7807	1	Screw, Spring, Shaft
MAX-35	2	Washer, Ins., Term. Stud	EB-7819S	1	Sleeve, Compression
MAX-44	1	Washer, Plain, Term. Stud, Outer	EB-8503	1	Head, Driving
MG-22	1	Washer, Plain, Term. Stud, Inner	EB-8705	1	SPRING, DRIVE
MH-28	1	Connector	EB-8734	1	Ring, Take-Up
ML-1012†	1	Brush	EBA-1111	1	Shaft & Pinion
ML-3005S	1	FIELD COIL PACKAGE	GCE-24	1	Band, Cover
ML-1007	1	Coil, Field, U.L.	ML-2027A	1	BEARING ASSY., INTERMEDIATE
ML-1008	1	Coil, Field, L.R.	ML-21A	1	Bearing, Abs. Bronze
ML-1009	1	Coil, Field, L.L.	PS-1050A	1	Housing Assy., Pinion
ML-1010	1	Coil, Field, U.R.	MAB-88	1	Pin, Dowel
MLA-28	1	Stud, Terminal	MG-77A	1	BEARING, ABS. BRONZE
MN-21	1	Pin, Dowel	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MR-32	1	Insulation, Field Connection	8X-794	1	Nut, Cover Band, Square #10-32
8X-179	2	Nut, Term. Stud, Hex. 3/8-16			
12X-201	2	Lockwasher, Term. Stud, 3/8			
12X-1014	2	Lockwasher, Thru Bolt, 5/16			
Comm. End Head Assembly & Parts Used With					
ML-2002C	1	Head Assy., Comm. End			
MAL-40A	1	BEARING, ABS. BRONZE			
ML-122	1	Felt			
ML-1034S†	2	Brush, Grounded			
MR-1062A	1	Cover, Bearing, Comm. End			
MZ-19	4	Spring, Brush			
12X-196	6	Lockwasher, Head Screw, #10			
8X-709	6	Screw, C.E. Head, Fill. Hd. #10-32x7/16			
Armature Assembly & Parts Used With					
GK-174A	1	Washer, Arm. Shaft, C.E.			
MG-61	1	Washer, Arm, Thrust, Intermediate			
ML-2035A	1	ARMATURE			
X-261	1	Key, Woodruff, #6			

† BRUSH SET, SERVICE ML-2012S.

UNIT	APPLICATION
ML-4330	Buda

(Issued 4-5-49)

Printed in U. S. A.

File in
Equipment & Parts List Binder

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

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4333 STARTING MOTOR PARTS LIST

ML-4333

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
MAS-20	2	Bolt, Thru
(ML-2117C)	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAW-37	1	Bushing, Ins., Term. Stud
MAX-35	2	Washer, Ins., Term. Stud
MAX-44	1	Washer, Plain, Term. Stud, Outer
MG-22	1	Washer, Plain, Term. Stud, Inner
MH-28	1	Connector
ML-1012B †	1	Brush, Insulated
ML-3005S	1	FIELD COIL PACKAGE
ML-1007	1	Coil, Field, U.L.
ML-1008	1	Coil, Field, L.R.
ML-1009	1	Coil, Field, L.L.
ML-1010	1	Coil, Field, U.R.
MLA-28	1	Stud, Terminal, 3/8-16
MN-21	1	Pin, Dowel
MR-32	1	Insulation, Field Connection
8X-179	2	Nut, Term. Stud, Hex. 3/8-16
12X-201	2	Lockwasher, Term. Stud, 3/8
12X-1014	2	Lockwasher, Thru Bolt, 5/16

Comm. End Head Assembly & Parts Used With

ML-2002E	1	Head Assy., Comm. End
MAL-40A	1	Bearing, Abs. Bronze
ML-122	1	Felt
ML-1034AS†	2	Brush, Grounded
MR-1062A	1	Cover, Bearing, C.E.
MZ-19	4	Spring, Brush
12X-196	6	Lockwasher, Head Screw, #10
8X-709	6	Screw, C.E. Head, Fill. Hd. #10-32x7/16

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part
GK-174A	1	Washer, Arm. Shaft, C.E.
ML-128	1	Washer, Thrust, C.E., 1/32" Thick
ML-2133	1	ARMATURE

Miscellaneous Parts

GCE-24	1	Band, Cover
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32

† BRUSH SET, SERVICE ML-2012AS.

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

UNIT	APPLICATION
ML-4333	Moto-Truc

(Issued 3-13-50)

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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

ML-4334 STARTING MOTOR PARTS LIST

ML-4334
(Issued 6-27-51)

Frame & Field Assembly & Parts Used With			Miscellaneous Parts		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MAS-20	2	Bolt, Thru	EBA-11	1	BENDIX DRIVE ASSY.
(ML-2117)	1	Frame & Field Assy.	EB-108	2	Lockwasher
GK-38	4	Screw, Pole Shoe	EB-7806	1	Screw, Spring, Head
MAW-37	1	Bushing, Ins., Term. Stud	EB-7807	1	Screw, Spring, Shaft
MAX-35	2	Washer, Ins., Term. Stud	EB-7819S	1	Sleeve, Compression
MAX-44	1	Washer, Plain, Term. Stud, Outer	EB-8503	1	Head, Driving
MG-22	1	Washer, Plain, Term. Stud, Inner	EB-8705	1	SPRING, DRIVE
MH-28	1	Connector	EB-8734	1	Ring, Take-Up
ML-1012†	1	Brush	EBA-1111	1	Shaft & Pinion
ML-3005S	1	FIELD COIL PACKAGE	GCE-24	1	Band, Cover
ML-1007	1	Coil, Field, U.L.	ML-2027A	1	BEARING ASSY., INTERMEDIATE
ML-1008	1	Coil, Field, L.R.	ML-21A	1	Bearing, Abs. Bronze
ML-1009	1	Coil, Field, L.L.	PS-1060	1	Housing Assy., Pinion
ML-1010	1	Coil, Field, U.R.	MAB-88	1	Pin, Dowel
MLA-28	1	Stud, Terminal	MG-77A	1	BEARING, ABS. BRONZE
MN-21	1	Pin, Dowel	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MR-32	1	Insulation, Field Connection	8X-794	1	Nut, Cover Band, Square #10-32
8X-179	2	Nut, Term. Stud, Hex. 3/8-16			
12X-201	2	Lockwasher, Term. Stud, 3/8			
12X-1014	2	Lockwasher, Thru Bolt, 5/16			
<u>Comm. End Head Assembly & Parts Used With</u>					
ML-2002CS	1	Head Assy., Comm. End			
MAL-40A	1	BEARING, ABS. BRONZE			
ML-122	1	Felt			
ML-1034S†	2	Brush, Grounded			
MR-1062A	1	Cover, Bearing, Comm. End			
MZ-19	4	Spring, Brush			
12X-196	6	Lockwasher, Head Sc., #10			
8X-709	6	Screw, C.E. Head, Fill. Hd. #10-32x7/16			
<u>Armature Assembly & Parts Used With</u>					
GK-174A	1	Washer, Arm. Shaft, C.E.			
MG-61	1	Washer, Thrust, Intermediate			
ML-2035A	1	ARMATURE			
X-261	1	Key, Woodruff, #6			

† BRUSH SET, SERVICE ML-2012S.

UNIT	APPLICATION
ML-4334	Davey Compressor, Duplex, Hercules



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4335 MOTOR PARTS LIST

ML-4335
(Issued 3-21-55)

<u>Frame & Field Assembly & Parts Used With</u>			<u>Armature Assembly & Parts Used With</u>		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MH-20	2	Bolt, Thru	GK-174A	1	Washer, Arm. Shaft, C. E.
ML-2136	1	Frame & Field Assembly	ML-128	*	Washer, Thrust, C. E., 1/32" Thick
GK-38	4	Screw, Pole Shoe	ML-128A	*	Washer, Thrust, C. E., .015" Thick
MAW-37	2	Bushing, Ins., Term. Stud	ML-128B	*	Washer, Thrust, C. E., .045" Thick
MAX-35	4	Washer, Ins., Term. Stud, Outer	ML-2133	1	ARMATURE
MAX-44	2	Washer, Plain, Term. Stud	<u>Miscellaneous Parts</u>		
MC-51A	1	Washer, Plain, Term. Stud	GCE-1024L	1	Band, Cover
MH-28	1	Connector, Term. Stud	ML-132	1	Head, Drive End
ML-119	1	Insulation, Term. Stud, Inner	X-367	1	BEARING, BALL, SEALED, S. A. E. #202
ML-120	1	Insulation, Term. Stud, Inner	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
ML-2012BS	1	BRUSH SET, SERVICE	8X-794	1	Nut, Cover Band, Square #10-32
ML-3005S	1	FIELD COIL PACKAGE	* Use as required.		
ML-1007	1	Coil, Field, U. L.			
ML-1008	1	Coil, Field, L. R.			
ML-1009	1	Coil, Field, L. L.			
ML-1010	1	Coil, Field, U. R.			
MLA-28	2	Stud, Terminal			
MN-21	1	Pin, Dowel			
MR-32	1	Insulation, Field Connection			
8X-179	4	Nut, Term. Stud, Hex. 3/8-16			
12X-201	4	Lockwasher, Term. Stud, 3/8			
12X-1014	2	Lockwasher, Thru Bolt, 5/16			
<u>Comm. End Head Assembly & Parts Used With</u>					
ML-2002FS	1	Head Assy., Comm. End			
MAL-40A	1	BEARING, ABSORBENT BRONZE			
ML-122	1	Felt			
MR-1062A	1	Cover, Bearing, Comm. End			
MZ-19	4	Spring, Brush			
12X-196	6	Lockwasher, Head Screw, #10			
8X-709	6	Screw, C. E. Head, Fill. Hd. #10-32x7/16			

UNIT	APPLICATION
ML-4335	J. S. Barnes Corp., Yale & Towne

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4336 MOTOR PARTS LIST

ML-4336
(Issued 3-21-55)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
MH-20	2	Bolt, Thru
ML-2136	1	Frame & Field Assembly
GK-38	4	Screw, Pole Shoe
MAW-37	2	Bushing, Ins., Term. Stud
MAX-35	4	Washer, Ins., Term. Stud, Outer
MAX-44	2	Washer, Plain, Term. Stud
MC-51A	1	Washer, Plain, Term. Stud
MH-28	1	Connector, Term. Stud
ML-119	1	Insulation, Term. Stud, Inner
ML-120	1	Insulation, Term. Stud, Inner
ML-2012BS	1	BRUSH SET, SERVICE
ML-3005S	1	FIELD COIL PACKAGE
ML-1007	1	Coil, Field, U. L.
ML-1008	1	Coil, Field, L. R.
ML-1009	1	Coil, Field, L. L.
ML-1010	1	Coil, Field, U. R.
MLA-28	2	Stud, Terminal
MN-21	1	Pin, Dowel
MR-32	1	Insulation, Field Connection
8X-179	4	Nut, Term. Stud, Hex. 3/8-16
12X-201	4	Lockwasher, Term. Stud, 3/8
12X-1014	2	Lockwasher, Thru Bolt, 5/16

Comm. End Head Assembly & Parts Used With

ML-2002FS	1	Head Assy., Comm. End
MAL-40A	1	BEARING, ABSORBENT BRONZE
ML-122	1	Felt
MR-1062A	1	Cover, Bearing, Comm. End
MZ-19	4	Spring, Brush
12X-196	6	Lockwasher, Head Screw, #10
8X-709	6	Screw, C. E. Head, Fill. Hd. #10-32x7/16

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part
GK-174A	1	Washer, Arm. Shaft, C. E.
ML-128	*	Washer, Thrust, C. E., 1/32" Thick
ML-128A	*	Washer, Thrust, C. E., .015" Thick
ML-128B	*	Washer, Thrust, C. E., .045" Thick
ML-2133	1	ARMATURE

Miscellaneous Parts

GCE-1024N	1	Band, Cover
X-367	1	BEARING, BALL, SEALED, S. A. E. #202
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32

* Use as required.

UNIT	APPLICATION
ML-4336	J. S. Barnes Corp.

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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."

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4337 MOTOR PARTS LIST

ML-4337
(Issued 3-21-55)

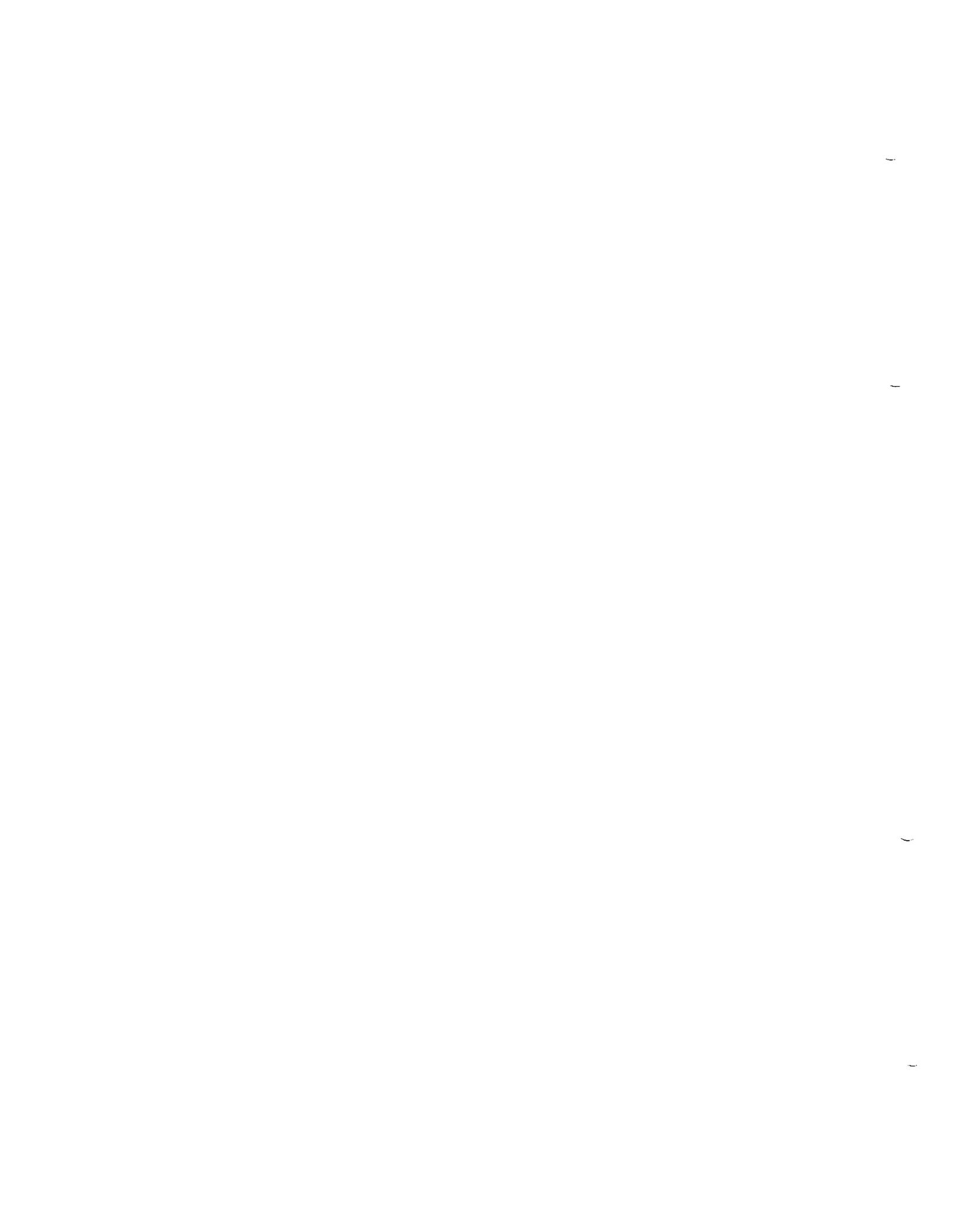
Frame & Field Assembly & Parts Used With			Comm. End Head Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MH-20	2	Bolt, Thru	ML-2002FS	1	Head Assy., Comm. End
ML-2136	1	Frame & Field Assembly	MAL-40A	1	BEARING, ABS. BRONZE
GK-38	4	Screw, Pole Shoe	ML-122	1	Felt
MAW-37	2	Bushing, Ins., Term. Stud	MR-1062A	1	Cover, Bearing, Comm. End
MAX-35	4	Washer, Ins., Term. Stud, Outer	MZ-19	4	Spring, Brush
MAX-44	2	Washer, Plain, Term. Stud	12X-196	6	Lockwasher, Head Screw, #10
MC-51A	1	Washer, Plain, Term. Stud	8X-709	6	Screw, C. E. Head, Fill. Hd. #10-32x7/16
MH-28	1	Connector, Term. Stud	<u>Armature Assembly & Parts Used With</u>		
ML-119	1	Insulation, Term. Stud, Inner	GK-174A	1	Washer, Arm. Shaft, C. E.
ML-120	1	Insulation, Term. Stud, Inner	ML-128	1	Washer, Thrust, C. E., 1/32" Thick
ML-2012BS	1	BRUSH SET, SERVICE	ML-2133	1	ARMATURE
ML-3005S	1	FIELD COIL PACKAGE	<u>Miscellaneous Parts</u>		
ML-1007	1	Coil, Field, U. L.	GCE-24M	1	Band, Cover
ML-1008	1	Coil, Field, L. R.	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
ML-1009	1	Coil, Field, L. L.	8X-794	1	Nut, Cover Band, Square #10-32
ML-1010	1	Coil, Field, U. R.			
MLA-28	2	Stud, Terminal			
MN-21	1	Pin, Dowel			
MR-32	1	Insulation, Field Connection			
8X-179	4	Nut, Term. Stud, Hex. 3/8-16			
12X-201	4	Lockwasher, Term. Stud, 3/8			
12X-1014	2	Lockwasher, Thru Bolt, 5/16			

UNIT	APPLICATION
ML-4337	Moto-Truck Co., Revolvator Co

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4339 MOTOR PARTS LIST

ML-4339
(Issued 3-21-55)

<u>Frame & Field Assembly & Parts Used With</u>			<u>Armature Assembly & Parts Used With</u>		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MH-20	2	Bolt, Thru	GK-174A	1	Washer, Arm. Shaft, C. E.
ML-2136	1	Frame & Field Assembly	ML-128	*	Washer, Thrust, C. E. , 1/32" Thick
GK-38	4	Screw, Pole Shoe	ML-128A	*	Washer, Thrust, C. E. , .015" Thick
MAW-37	2	Bushing, Ins. , Term. Stud	ML-128B	*	Washer, Thrust, C. E. , .045" Thick
MAX-35	4	Washer, Ins. , Term. Stud, Outer	ML-2133	1	ARMATURE
MAX-44	2	Washer, Plain, Term. Stud	<u>Miscellaneous Parts</u>		
MC-51A	1	Washer, Plain, Term. Stud	GCE-1024M	1	Band, Cover
MH-28	1	Connector, Term. Stud	X-367	1	BEARING, BALL, SEALED, S. A. E. #202
ML-119	1	Insulation, Term. Stud, Inner	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
ML-120	1	Insulation, Term. Stud, Inner	8X-794	1	Nut, Cover Band, Square #10-32
ML-2012BS	1	BRUSH SET, SERVICE	* Use as required.		
ML-3005S	1	FIELD COIL PACKAGE			
ML-1007	1	Coil, Field, U. L.			
ML-1008	1	Coil, Field, L. R.			
ML-1009	1	Coil, Field, L. L.			
ML-1010	1	Coil, Field, U. R.			
MLA-28	2	Stud, Terminal			
MN-21	1	Pin, Dowel			
MR-32	1	Insulation, Field Connection			
8X-179	4	Nut, Term. Stud, Hex. 3/8-16			
12X-201	4	Lockwasher, Term. Stud, 3/8			
12X-1014	2	Lockwasher, Thru Bolt, 5/16			
<u>Comm. End Head Assembly & Parts Used With</u>					
ML-2002FS	1	Head Assy. , Comm. End			
MAL-40A	1	BEARING, ABS. BRONZE			
ML-122	1	Felt			
MR-1062A	1	Cover, Bearing, Comm. End			
MZ-19	4	Spring, Brush			
12X-196	6	Lockwasher, Head Screw, #10			
8X-709	6	Screw, C. E. Head, Fill. Hd. #10-32x7/16			

UNIT	APPLICATION
ML-4339	J. S. Barnes Corp.

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4340 STARTING MOTOR PARTS LIST

ML-4340
(Issued 4-23-52)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
ML-2143	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAS-22	1	Insulation, Field Connection
MAW-37	2	Bushing, Ins., Term. Stud
MAX-44	2	Washer, Plain, Term. Stud
MBD-119	2	Washer, Ins., Term. Stud
ML-144	1	Insulation, Term. Stud, Inner
ML-145	1	Stud, Terminal
ML-146	1	Stud, Terminal
ML-147	1	Connector, Terminal
ML-148	1	Connector, Term. Stud
ML-1012E†	2	Brush
ML-3005BS	1	FIELD COIL PACKAGE
ML-1007B	1	Coil, Field, U. L.
ML-1008B	1	Coil, Field, L. R.
ML-1009G	1	Coil, Field, L. L.
ML-1010B	1	Coil, Field, U. R.
MN-21	1	Pin, Dowel
8X-179	4	Nut, Term. Stud, Hex. 3/8-16
12X-196	2	Lockwasher, Brush Lead Sc., #10
12X-201	4	Lockwasher, Term. Stud, 3/8
8X-309	1	Screw, Brush Lead, Rd. Hd. #10-32x1/2
8X-311	1	Screw, Brush Lead, Rd. Hd. #10-32x3/8
SB-42	2	Bolt, Thru
12X-1014	2	Lockwasher, Thru Bolt, 5/16

Comm. End Head Assembly & Parts Used With

GAL-40C	1	Cover, Bearing, C. E.
ML-2140	1	Head Assy., Comm. End
MBD-150	1	Wick, Felt
ML-1140	1	Head Assy., Partial, C. E.
MAL-40A	1	BEARING, ABS. BRONZE
ML-1142	1	Plate Assy., Brush
MZ-19	4	Spring, Brush
12X-196	4	Lockwasher, Brush Plate Sc., #10
8X-898	4	Screw, Brush Plate, Fill. Hd. #10-32x1
X-3172	1	Oiler
12X-196	6	Lockwasher, Head Screw, #10
8X-2994	6	Screw, C. E. Head, Fill. Hd. #10-32x9/16

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part
GK-174A	1	Washer, Arm. Shaft, C. E.
ML-128	*	Washer, Thrust, C. E., 1/32" Thick
ML-128A	*	Washer, Thrust, C. E., .015" Thick
ML-128B	*	Washer, Thrust, C. E., .045" Thick
ML-2133	1	ARMATURE

Miscellaneous Parts

GCE-1024P	1	Cover, Band
ML-132	1	Head, Drive End
X-367	1	BEARING, BALL, SEALED, S. A. E. #202
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32

† BRUSH SET, SERVICE ML-2012ES.

* Use as Required.

UNIT	APPLICATION
ML-4340	Yale & Towne, J. S. Barnes

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

ML-4341 MOTOR PARTS LIST

ML-4341
(Issued 3-1-55)

Frame & Field Assembly & Parts Used With			Comm. End Head Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
ML-2150	1	Frame & Field Assembly	GAL-40C	1	Cover, Bearing, C. E.
GK-38	4	Screw, Pole Shoe	ML-2140	1	Head Assy., Comm. End
MAW-37	2	Bushing, Ins., Term. Stud	ML-155	1	Wick, Felt
MAX-44	2	Washer, Plain, Term. Stud, Outer	ML-1140	1	Head Assy., Partial, Comm. End
MBD-119	2	Washer, Ins., Term. Stud, Outer	MAL-40A	1	BEARING, ABS. BRONZE
ML-144	1	Insulation, Term. Stud Inner	ML-1142	1	Plate Assy., Brush
ML-145	1	Stud, Terminal	MZ-19	4	Spring, Brush
ML-146	1	Stud, Terminal	12X-196	4	Lockwasher, Brush Plate Screw, #10
ML-147	1	Connector, Terminal	8X-898	4	Screw, Brush Plate, Fill. Hd. #10-32x1
ML-148	1	Connector, Term. Stud	X-3172	1	Oiler
ML-152	1	Insulation, Field Connection	12X-196	6	Lockwasher, C. E. Head Screw, #10
ML-153	1	Ins., Field Connection, 6 3/4" Long	8X-2994	6	Screw, C. E. Head, Fill. Hd. #10-32x9/16
ML-1007C	1	Coil, Field, U. L.	<u>Armature Assembly & Parts Used With</u>		
ML-1008C	1	Coil, Field, L. R.	GK-174A	1	Washer, Arm. Shaft, C. E.
ML-1009K	1	Coil, Field, L. L.	ML-128	*	Washer, Thrust, C. E., 1/32" Thick
ML-1010C	1	Coil, Field, U. R.	ML-128A	*	Washer, Thrust, C. E., .015" Thick
ML-1012E†	2	Brush	ML-128B	*	Washer, Thrust, C. E., .045" Thick
MN-21	1	Pin, Dowel	ML-2133	1	ARMATURE
8X-179	4	Nut, Term. Stud, Hex. 3/8-16	<u>Miscellaneous Parts</u>		
12X-196	2	Lockwasher, Brush Lead Screw, #10	GCE-1024Q	1	Band, Cover
12X-201	4	Lockwasher, Term. Stud, 3/8	ML-149	1	Head, Drive End
8X-309	1	Screw, Brush Lead, Rd. Hd. #10-32x1/2	X-367	1	BEARING, BALL, SEALED, S. A. E. #202
8X-311	1	Screw, Brush Lead, Rd. Hd. #10-32x3/8	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
SB-42	2	Bolt, Thru	8X-794	1	Nut, Cover Band, Square #10-32
12X-1014	2	Lockwasher, Thru Bolt, 5/16			

† BRUSH SET, SERVICE ML-2012ES.

* Use as required.

UNIT	APPLICATION
ML-4341	J. S. Barnes

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

ML-4342, A MOTOR PARTS LIST

ML-4342, A
(Issued 3-6-56)

Frame & Field Assembly & Parts Used With		
Part No.	No. Used	Name of Part
ML-2143B	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAW-37	2	Bushing, Ins., Term. Stud
MAX-44	2	Washer, Plain, Term. Stud, Outer
MBD-119	1	Washer, Ins., Term. Stud, Outer
ML-144	1	Insulation, Term. Stud, Inner
ML-145	1	Stud, Terminal
ML-146	1	Stud, Terminal
ML-147	1	Connector, Terminal
ML-148	1	Connector, Term. Stud
ML-152	1	Insulation, Field Connection
ML-153	1	Ins., Fld. Conn., 6 3/4" Long
ML-157	1	Insulation, Field Conn., D. E.
ML-1007C	1	COIL, FIELD, U. L.
ML-1008C	1	COIL, FIELD, L. R.
ML-1009K	1	COIL, FIELD, L. L.
ML-1010C	1	COIL, FIELD, U. R.
ML-2012DS	1	BRUSH SET
MN-21	1	Pin, Dowel
8X-179	4	Nut, Term. Stud, Hex. 3/8-16
12X-196	2	Lockwasher, Brush Lead Sc., #10
12X-201	4	Lockwasher, Term. Stud, 3/8
8X-309	1	Screw, Brush Lead, Rd. Hd. #10-32x1/2
8X-311	1	Screw, Brush Lead, Rd. Hd. #10-32x3/8
SB-42	2	Bolt, Thru
12X-1014	2	Lockwasher, Thru Bolt, 5/16

Comm. End Head Assembly & Parts Used With		
Part No.	No. Used	Name of Part
GAL-40C	1	Cover, Bearing, C. E.
ML-2156	1	Head Assy., Comm. End
ML-155	1	Wick, Felt
ML-1154	1	Plate Assy., Brush
MZ-19	4	Spring, Brush
ML-1156	1	Head Assy., Partial, Comm. End
MAL-40A	1	BEARING, ABS. BRONZE
12X-196	4	Lockwasher, Brush Plate Sc., #10
8X-898	4	Screw, Brush Plate, Fill. Hd. #10-32x1

Comm. End Head Assembly (Continued)		
Part No.	No. Used	Name of Part
X-3172	1	Oiler
12X-196	6	Lockwasher, C. E. Head Sc., #10
8X-2994	6	Screw, C. E. Head, Fill. Hd. #10-32x9/16

Armature Assembly & Parts Used With		
Part No.	No. Used	Name of Part
GK-174A	1	Washer, Arm. Shaft, C. E.
ML-128	*	Washer, Thrust, C. E., 1/32" Thick
ML-128A	*	Washer, Thrust, C. E., .015" Thick
ML-128B	*	Washer, Thrust, C. E., .045" Thick
ML-2133	1	ARMATURE

Miscellaneous Parts

ML-132A	1	Head, Drive End
ML-1158	1	Band, Cover
X-367	1	BEARING, BALL, SEALED, S. A. E. #202
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32

* Use as required

UNIT	APPLICATION
ML-4342	Yale & Towne
ML-4342A	J. S. Barnes

Printed in U. S. A.

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Equipment & Parts List Binder

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





ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4344 STARTING MOTOR PARTS LIST

ML-4344
(Issued 2-5-54)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
ML-2150	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAW-37	2	Bushing, Ins., Term. Stud
MAX-44	2	Washer, Plain, Term. Stud, Outer
MBD-119	2	Washer, Ins., Term. Stud, Outer
ML-144	1	Insulation, Term. Stud, Inner
ML-145	1	Stud, Terminal, C. E.
ML-146	1	Stud, Terminal, D. E.
ML-147	1	Connector, Terminal
ML-148	1	Connector, Term. Stud
ML-152	1	Insulation, Field Connection
ML-153	1	Insulation, Field Connection, 6 3/4" Long
ML-1007C	1	COIL, FIELD, U. L.
ML-1008C	1	COIL, FIELD, L. R.
ML-1009K	1	COIL, FIELD, L. L.
ML-1010C	1	COIL, FIELD, U. R.
ML-1012E†	2	Brush
MN-21	1	Pin, Dowel
8X-179	4	Nut, Term. Stud, Hex. 3/8-16
12X-196	2	Lockwasher, Brush Lead Sc., #10
12X-201	4	Lockwasher, Term. Stud, 3/8
8X-309	1	Screw, Brush Lead, Rd. Hd. #10-32x1/2
8X-311	1	Screw, Brush Lead, Rd. Hd. #10-32x3/8
SB-42	2	Bolt, Thru
12X-1014	2	Lockwasher, Thru Bolt, 5/16

Comm. End Head Assembly & Parts Used With

GAL-40C	1	Cover, Bearing, C. E.
ML-2156	1	Head Assy., Comm. End
ML-155	1	Wick, Felt
ML-1154	1	Plate Assy., Brush
MZ-19	4	Spring, Brush
ML-1156	1	Head Assy., Partial, Comm. End
MAL-40A	1	BEARING, ABS. BRONZE
12X-196	4	Lockwasher, Brush Plate Sc., #10

Comm. End Head Assembly (Cont.)

Part No.	No. Used	Name of Part
8X-898	4	Screw, Brush Plate, Fill. Hd. #10-32x1
X-3172	1	Oiler
12X-196	6	Lockwasher, C. E. Head Sc., #10
8X-2994	6	Screw, C. E. Head, Fill. Hd. #10-32x9/16

Armature Assembly & Parts Used With

GK-174A	1	Washer, Arm. Shaft, C. E.
ML-128	*	Washer, Thrust, C. E., 1/32" Thick
ML-128A	*	Washer, Thrust, C. E., .015" Thick
ML-128B	*	Washer, Thrust, C. E., .045" Thick
ML-2133	1	ARMATURE

Miscellaneous Parts

GCE-1024Q	1	Band, Cover
ML-149	1	Head, Drive End
X-367	1	BEARING, BALL; SEALED, S. A. E. #202
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32

† BRUSH SET, SERVICE ML-2012ES.

* Use as required.

UNIT	APPLICATION
ML-4344	J. S. Barnes

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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."

