

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MBR-4027 STARTING MOTOR PARTS LIST

MBR-4027
(Issued 11-19-52)

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
MBR-2058	1	Frame & Field Assy.	MAK-61	1	Washer, Thrust, Comm. End
GK-38	8	Screw, Pole Shoe	MBR-2316	1	ARMATURE
MAW-37	2	Bushing, Insulating, Term. Stud	MU-54	*	Washer, Thrust, C. E., 1/32" Thick
MAX-44	2	Washer, Plain, Term. Stud, Outer	MU-54A	*	Washer, Thrust, C. E., 1/64" Thick
MBD-15	1	Insulation, Term. Stud, Inner	MU-54B	*	Washer, Thrust, C. E., 3/64" Thick
MBD-34	1	Terminal	<u>Miscellaneous Parts</u>		
MBD-119	3	Washer, Ins., Term. Stud	MBD-24	1	Band, Cover
MBD-231	1	Connector, Term. Stud	MBD-317	1	Head, Drive End
MBD-233A	1	Stud, Terminal	8X-120	8	Screw, D. E. Head, Fill. Hd. #10-32x5/8
MBR-12D†	2	Brush	12X-196	8	Lockwasher, D. E. Head Screw, #10
MBR-12E†	2	Brush	X-367	1	Bearing, Ball, Sealed, S. A. E. #202
MBR-13D†	2	Brush	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MBR-13E†	2	Brush	8X-794	1	Nut, Cover Band, Square #10-32
MBR-3005BS	1	FIELD COIL PACKAGE	† BRUSH SET, SERVICE MBR-1012BS.		
MBR-1007B	1	Coil, Field, U. L.	* Use as required.		
MBR-1008B	1	Coil, Field, L. L.			
MBR-1009B	1	Coil, Field, U. R.			
MBR-1010B	1	Coil, Field, L. R.			
MC-51A	1	Washer, Plain, Term. Stud, Inner			
MR-32	1	Insulation, Field Connection			
SS-119	1	Stud, Terminal			
12X-201	2	Lockwasher, Terminal Stud, 3/8			
8X-830	2	Nut, Term. Stud, Hex. 3/8-16			
8X-148	2	Nut, Term. Stud, Hex. 3/8-16			
12X-201	2	Lockwasher, Term. Stud, 3/8			
<u>Comm. End Head Assembly & Parts Used With</u>					
GAL-40A	1	Cover, Bearing, Comm. End			
MAD-110	1	Felt			
MBR-2236	1	Head Assy., Comm. End			
MBD-150	1	Wick, Felt			
MBD-1236	1	Head Assy., Partial, C. E.			
GBF-79	1	BEARING, ABS. BRONZE			
MBR-2079	1	Plate Assy., Brush			
GG-81	4	Clip, Brush Holder Post			
MBD-19	8	Spring, Brush			
MBD-47	4	Spacer, Spring, Brush			
8X-120	4	Screw, Brush Plate, Fill. Hd. #10-32x5/8			
12X-196	4	Lockwasher, Brush Plate Sc., #10			
X-1573	1	Oiler			
8X-120	12	Screw, C. E. Head, Fill. Hd. #10-32x5/8			
12X-196	12	Lockwasher, C. E. Head Screw, #10			

UNIT	APPLICATION
MBR-4027	J. S. Barnes

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File in
Equipment & Parts List Binder

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MBR-4028 MOTOR PARTS LIST

MBR-4028
(Issued 2-24-55)

Frame & Field Assembly & Parts Used With		
Part No.	No. Used	Name of Part
MBR-2325	1	Frame & Field Assembly
GK-38	8	Screw, Pole Shoe
MAW-37	2	Bushing Ins., Term. Stud
MAX-44	2	Washer, Plain, Term. Stud, Outer
MBD-115	1	Washer, Ins., Term. Stud, Inner
MBD-119	3	Washer, Ins., Term. Stud
MBD-231	1	Connector, Term. Stud
MBD-233A	1	Stud, Terminal
MBD-322	1	Terminal, Brush
MBD-324	1	Terminal, Brush
MBR-1007B	1	COIL, FIELD, U. L.
MBR-1008C	1	COIL, FIELD, L. L.
MBR-1009B	1	COIL, FIELD, U. R.
MBR-1010D	1	COIL, FIELD, L. R.
MBR-1323†	2	Terminal & Brush Assy.
MC-51A	1	Washer, Plain, Term. Stud, Inner
MR-32	1	Insulation, Field Connection
SS-119	1	Stud, Terminal
12X-201	2	Lockwasher, Term. Stud, 3/8
8X-830	2	Nut, Term. Stud, Hex. 3/8-16
X-3177	2	Screw, Br. Terminal, Rd. Hd. 1/4-20x3/8
8X-148	2	Nut, Term. Stud, Hex. 3/8-16
12X-201	2	Lockwasher, Term. Stud, 3/8
Comm. End Head Assembly & Parts Used With		
GAL-40A	1	Cover, Bearing, Comm. End
MAD-110	1	Felt
MBD-258	12	Screw, C. E. Head, Fill. Hd. #10-32x5/8
MBR-2236	1	Head Assy., Comm. End
MBD-150	1	Wick, Felt
MBD-1236	1	Head Assy., Partial, C. E.
GBF-79	1	BEARING, ABSORBENT BRONZE
MBR-2079	1	Plate Assy., Brush
GG-81	4	Clip, Brush Holder Post
MBD-19	8	Spring, Brush
MBD-47	4	Spacer, Spring, Brush
8X-120	4	Screw, Brush Plate, Fill. Hd. #10-32x5/8

Comm. End Head Assembly (Continued)

Part No.	No. Used	Name of Part
12X-196	4	Lockwasher, Brush Plate Screw, #10
X-1573	1	Oiler
12X-196	12	Lockwasher, C. E. Head Screw, #10

Armature Assembly & Parts Used With

MAK-61	1	Washer, Thrust, Comm. End
MBR-2316	1	ARMATURE
MU-54	*	Washer, Thrust, C. E., 1/32" Thick
MU-54B	*	Washer, Thrust, C. E., 3/64" Thick

Miscellaneous Parts

MBD-24	1	Band, Cover
MBD-258	8	Screw, D. E. Head, Fill. Hd. #10-32x5/8
MBD-317	1	Head, Drive End
12X-196	8	Lockwasher, D. E. Head Screw, #10
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 MBR-1323S.

* Used as required.

UNIT	APPLICATION
MBR-4028	J. S. Barnes

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MBR-4029 MOTOR PARTS LIST

MBR-4029
(Issued 2-24-55)

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
MBR-2063	1	Frame & Field Assembly	MAK-61	1	Washer, Thrust, Comm. End
GK-38	8	Screw, Pole Shoe	MBR-2316	1	ARMATURE
MAW-37	2	Bushing, Ins., Term. Stud	MU-54	*	Washer, Thrust, C. E. , 1/32" Thick
MAX-44	2	Washer, Plain, Term. Stud, Outer	MU-54B	*	Washer, Thrust, C. E. , 3/64" Thick
MBD-115	1	Washer, Ins., Term. Stud, Inner	<u>Miscellaneous Parts</u>		
MBD-119	3	Washer, Ins., Term. Stud	MBD-258	8	Screw, D. E. Head, Fill. Hd. #10-32x5/8
MBD-231	1	Connector, Term. Stud	MBD-317	1	Head, Drive End
MBD-233A	1	Stud, Terminal	MBD-1406	1	Band, Cover
MBD-322	1	Terminal, Brush	12X-196	8	Lockwasher, D. E. Head Screw, #10
MBD-324	1	Terminal, Brush	X-367	1	Bearing, Ball, Sealed, S. A. E. #202
MBR-64	1	Insulation, Field Coil	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MBR-1007B	1	COIL, FIELD, U. L.	8X-794	1	Nut, Cover Band, Square #10-32
MBR-1008C	1	COIL, FIELD, L. L.	† BRUSH SET, SERVICE MBR-1323S.		
MBR-1009C	1	COIL, FIELD, U. R.	* Use as required.		
MBR-1010D	1	COIL, FIELD, L. R.			
MBR-1323†	2	Terminal & Brush Assy.			
MC-51A	1	Washer, Plain, Term. Stud, Inner			
SS-119	1	Stud, Terminal			
12X-201	2	Lockwasher, Terminal Stud, 3/8			
8X-830	2	Nut, Term. Stud, Hex. 3/8-16			
X-3177	2	Screw, Br. Terminal, Rd. Hd. 1/4-20x3/8			
8X-148	2	Nut, Term. Stud, Hex. 3/8-16			
12X-201	2	Lockwasher, Term. Stud, 3/8			
<u>Comm. End Head Assembly & Parts Used With</u>					
GAL-40A	1	Cover, Bearing, Comm. End			
MAD-110	1	Felt			
MBD-258	4	Screw, C. E. Head, Fill. Hd. #10-32x5/8			
MBR-2078	1	Head Assy., Comm. End			
MBD-150	1	Wick, Felt			
MBD-1078	1	Head Assy., Partial, C. E.			
GBF-79	1	BEARING, ABSORBENT BRONZE			
MBR-2079	1	Plate Assy., Brush			
GG-81	4	Clip, Brush Holder Post			
MBD-19	8	Spring, Brush			
MBD-47	4	Spacer, Spring, Brush			
8X-120	4	Screw, Brush Plate, Fill. Hd. #10-32x5/8			
12X-196	4	Lockwasher, Brush Plate Screw, #10			
X-1573	1	Oiler			
12X-196	4	Lockwasher, C. E Head Screw, #10			

UNIT	APPLICATION
MBR-4029	J. S. Barnes

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MBS-4002 STARTING MOTOR PARTS LIST

MBS-4002
(Issued 2-21-52)

Frame & Field Assembly & Parts Used With			Comm. End Head Assembly (Continued)		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MBS-2030	1	Frame & Field Assy.	GBG-18R	4	Holder, Brush
GBG-23	2	Stud, Terminal	GBG-36	4	Spring, Brush
GBG-38	8	Screw, Pole Shoe	GBG-40	4	Terminal, Brush Holder
GCY-28	6	Bushing, Ins., Term. Stud	GBG-85	4	Stud, Brush Holder
GDW-33S	1	Bracket, Mounting	GBG-1037	4	Arm, Brush
MBS-23	4	Stud, Terminal	8X-173	4	Nut, Brush Stud, Hex. #10-32
MBS-26	1	Lead Assy.	X-196	4	Lockwasher, Brush Stud #10
MBS-14	1	Clip, Terminal	GK-151	1	Washer, Plain, Plate Adj. Screw
X-1743	2	Terminal	MCP-1012†	4	Brush
MBS-27	1	Lead Assy.	12X-195	4	Lockwasher, Brush Lead Sc., #8
MBS-14	1	Clip, Terminal	8X-208	1	Screw, Plate Adj., Hex. Hd. #10-32x9/16
X-1743	2	Terminal	8X-305	4	Screw, Brush Lead, Rd. Hd. #8-32x1/4
MBS-31	1	Connector, Field Coil	8X-361	2	Washer, Plain, Brush Plate Sc., 1/4
MBS-33	2	Insulation, Term. Stud	X-1270	1	Washer, Plate Adj. Sc., Skpf. #10
MBS-37	3	Insulation, Term. Stud	8X-118	6	Screw, C. E. Head, Fill. Hd. #10-32x3/4
MBS-1007A	1	COIL, FIELD, U. L.	12X-195	4	Lockwasher, Br. Lead Conn. Sc., #8
MBS-1008A	1	COIL, FIELD, L. R.	12X-196	10	Lockwasher, C. E. Head Sc. (6) & Cover Sc. (4), #10
MBS-1009A	1	COIL, FIELD, L. L.	12X-199	1	Lockwasher, Brg. Retaining Sc., 1/4
MBS-1010A	1	COIL, FIELD, U. R.	8X-305	4	Screw, Br. Lead Connection, #8-32x1/4
MBS-1034	1	Connector, Field Coil	X-394	1	Oiler
MU-36	6	Washer, Ins., Term. Stud, Outer	X-440	1	Bearing, Ball, Shielded, S. A. E. #305
MU-37	6	Washer, Plain, Term. Stud	8X-870	4	Screw, C. E. Cover, Fill. Hd. #10-32x5/16
12X-201	4	Lockwasher, Bracket Sc., 3/4			
8X-465	4	Screw, Mtg. Bracket, Hex. Hd. 3/8-24x3/4			
12X-1014	12	Lockwasher, Term. Stud, 5/16			
8X-1376	12	Nut, Term. Stud, Hex. 5/16-24			
Comm. End Head Assembly & Parts Used With			Armature Assembly & Parts Used With		
DA-60	1	Screw, Bearing Retaining	GBG-49	2	Spacer, Arm. Shaft, C. E. & D. E.
GBG-46	1	Washer, Spring	GBG-81	1	Snap Ring
GBG-47	1	Washer, Felt	MBS-2032F	1	ARMATURE ASSY.
GBG-48	2	Retainer, Felt Washer	X-158	1	Nut, Shaft, D. E., Hex. 1/2-20
GBG-63	1	Cover, Comm. End	12X-198	1	Lockwasher, Shaft, D. E., 1/2
GBG-64	1	Gasket, Comm. End Cover	X-261	1	Key, Woodruff, D. E., #6
GBG-66	1	Washer, Bearing Retaining	X-263	1	Key, Woodruff, D. E., #8
MBS-2093	1	Head Assy., Comm. End	X-358	1	Washer, Plain, Shaft, D. E., 1/2
DA-38	2	Washer, Spring, Br. Plate Screw			
DE-85	1	Washer, Steel, Plate Adj. Screw			
GBG-41	2	Screw, Brush Plate			
GBG-51	2	Washer, Plain, Brush Plate Screw			
GBG-93	1	Head, Comm. End			
GDX-1031	1	Plate Assy., Br. Holder			

(Continued on Reverse Side)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MBS-4002 STARTING MOTOR PARTS (Cont.)

<u>Miscellaneous Parts</u>		
Part No.	No. Used	Name of Part
GBG-1068	1	Head Assy., Drive End
GBG-50	1	Gasket, Bearing Retainer
GBG-57	1	Retainer, Felt Washer, Outer
GBG-58	1	Washer, Felt, Outer
GBG-68	1	Head, Drive End
GBG-1056	1	Retainer Assy., Bearing
GBG-56	1	Retainer, Bearing
GBG-57	1	Retainer, Felt Washer
GBG-58	1	Washer, Felt
8X-119	4	Screw, Brg. Retainer, Fill. Hd. #10-32x1/2
X-196	4	Lockwasher, Retainer Sc., #10
X-444	1	BEARING, BALL, S. A. E. #305
MBS-24A	1	Band, Cover
8X-118	6	Screw, D. E. Head, Fill. Hd. #10-32x3/4
12X-196	6	Lockwasher, D. E. Head Sc., #10
X-394	1	Oiler, D. E.
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32

† BRUSH SET, SERVICE MCP-2012S.

UNIT	APPLICATION
MBS-4002	Automatic Trans.

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MBS-4005 STARTING MOTOR PARTS (Cont'd.)

Part No.	Miscellaneous Parts (Cont'd.)	
	No. Used	Name of Part
8X-118	6	Screw, D.E. Head, Fill. Hd. #10-32x3/4
12X-196	6	Lockwasher, D.E. Head Sc., #10
X-394	1	Oiler
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square, #10-32

† BRUSH SET, SERVICE MCP-2012S.

UNIT	APPLICATION
MBS-4005	Automatic Trans.

(Issued 4-5-49)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MBY-4003 STARTING MOTOR PARTS LIST

MBY-4003
(Issued 2-14-52)

Frame & Field Assembly & Parts Used With			Switch Assembly & Parts (Continued)		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MBY-2001	1	Frame & Field Assy.	8X-832	2	Nut, Hex. 5/16-24
GK-38	4	Screw, Pole Shoe	12X-1014	2	Lockwasher, 5/16
MAB-30	1	Insulation, Field Conn.	8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
MAB-31	1	Washer, Ins., Term. Stud, Outer	X-1270	2	Washer, Switch Mtg. Sc., Skpf. #10
MAB-85	1	Bushing, Ins., Term. Stud			
MAK-80	1	Washer, Ins., Term. Stud, Inner			
MAX-67	1	Insulation, Field Conn., Drive End			
MBY-12†	2	Brush	EB-87	1	BENDIX DRIVE ASSY.
MBY-13†	2	Brush, Grounded	EB-108	2	Lockwasher
MBY-28	1	Stud, Terminal	EB-7806	1	Screw, Spring, Head
MBY-33	1	Connector, Brush	EB-7807	1	Screw, Spring, Shaft
MBY-3005S	1	FIELD COIL PACKAGE	EB-7819S	1	Sleeve, Compression
MBY-32	2	Connector, Field Coil	EB-8503	1	Head, Drive
MBY-1007	1	Coil, Field, U. L.	EB-8705	1	SPRING, DRIVE
MBY-1008	1	Coil, Field, L. R.	EB-8711	1	Shaft & Pinion
MBY-1009	1	Coil, Field, L. L.	EB-8734	1	Ring, Take-Up
MBY-1010	1	Coil, Field, U. R.	MAB-2040	1	BEARING ASSY., INTERMEDIATE
MN-21	2	Pin, Dowel	MG-77A	1	Bearing, Abs. Bronze
MU-37	1	Washer, Plain, Term. Stud	MAW-24	1	Band, Cover
8X-61	2	Screw, Brush Ground, Flat Hd. #10-32x7/16	PS-1221	1	Housing Assy., Pinion
12X-1014	2	Lockwasher, Term. Stud, 5/16	MAB-88	1	Pin, Dowel
8X-1376	2	Nut, Term. Stud, Hex. 5/16-24	MP-41A	1	BEARING, ABS. BRONZE
MW-20A	2	Bolt, Thru	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
12X-199	2	Lockwasher, Thru Bolt, 1/4	8X-794	1	Nut, Cover Band, Square #10-32
Comm. End Head Assembly & Parts Used With			† BRUSH SET, SERVICE MBY-2012S.		
MBY-2002B	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
Armature Assembly & Parts Used With					
MAK-61	1	Washer, Thrust, C. E.			
MBY-2030F	1	ARMATURE ASSY.			
MAB-35	1	Spacer, Bearing Thrust			
MU-54	2	Washer, Thrust, C. E. & Intermediate, 1/32" Thick			
X-261	1	Key, Woodruff, D. E., #6			
Switch Assembly & Parts Used With					
SS-6R	1	Connector, Switch to Motor			
SS-4801	1	SWITCH, SOLENOID STARTING			
8X-173	1	Nut, Hex. #10-32			
12X-196	1	Lockwasher, #10			

UNIT	APPLICATION
MBY-4003	Continental, Hobart Bros.

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MBY-4004 STARTING MOTOR PARTS LIST

MBY-4004

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
(MBY-2034)	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAB-30	1	Insulation, Field Connection
MAB-31	1	Washer, Ins., Term. Stud, Outer
MAB-85	1	Bushing, Ins., Term. Stud
MAK-80	1	Washer, Ins., Term. Stud, Inner
MAX-67	1	Insulation, Field Conn., D.E.
MBY-12 †	2	Brush, Insulated
MBY-13 †	2	Brush, Grounded
MBY-28	1	Stud, Terminal
MBY-33	1	Connector, Ins. Brush
MBY-3005S	1	FIELD COIL PACKAGE
MBY-32	2	Connector, Field Coil
MBY-1007	1	Coil, Field, U.L.
MBY-1008	1	Coil, Field, L.R.
MBY-1009	1	Coil, Field, L.L.
MBY-1010	1	Coil, Field, U.R.
MN-21	2	Pin, Dowel
MU-37	1	Washer, Plain, Term. Stud 5/16
8X-61	2	Screw, Brush Ground, Flat Hd. #10-32x7/16
12X-1014	2	Lockwasher, Term. Stud, 5/16
8X-1376	2	Nut, Term. Stud, Hex. 5/16-24
MW-20A	2	Bolt, Thru
12X-199	2	Lockwasher, Thru Bolt, 1/4

Comm. End Head Assembly & Parts Used With

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

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part
MAK-61	1	Washer, Arm. Thrust, C.E.
MBY-2015F	1	ARMATURE ASSY.
MAB-35	1	Spacer, Bearing Thrust
MU-54	2	Washer, Arm. Thrust, C.E. & Intermediate
X-261	1	Key, Woodruff, #6

Miscellaneous Parts

EBA-11	1	BENDIX DRIVE ASSY.
EB-108	2	Lockwasher
EB-7806	1	Screw, Spring, Head
EB-7807	1	Screw, Spring, Shaft
EB-7819S	1	Sleeve, Compression
EB-8503	1	Head, Driving
EB-8705	1	Spring, Drive
EB-8734	1	Ring, Take Up
EBA-1111	1	Shaft & Pinion
MAB-2040	1	BEARING ASSY., INTERMEDIATE
MG-77A	1	Bearing, Abs. Bronze
MAW-24	1	Band, Cover
PS-1123	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 MBY-2012S.

UNIT	APPLICATION
MBY-4004	Buda, Le Tourneau

(Issued 8-17-48)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MBY-4009 STARTING MOTOR PARTS LIST

MBY-4009
(Issued 2-24-55)

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
MBY-2001	1	Frame & Field Assembly	SS-6R	1	Connector
GK-38	4	Screw, Pole Shoe	SS-4801	1	SOLENOID STARTING SWITCH
MAB-31	1	Washer, Ins., Term. Stud, Outer	8X-173	1	Nut, Hex. #10-32
MAB-34	1	Insulation, Field Connection	12X-196	1	Lockwasher, #10
MAB-85	1	Bushing, Ins., Term. Stud	8X-832	2	Nut, Hex. 5/16-24
MAK-80	1	Washer, Ins., Term. Stud, Inner	12X-1014	2	Lockwasher, 5/16
MAX-67	1	Insulation, Field Connection, D. E.	8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
MBY-12†	2	Brush	X-1270	2	Washer, Switch Mtg. Screw, Skpf. #10
MBY-13†	2	Brush, Grounded	<u>Miscellaneous Parts</u>		
MBY-28	1	Stud, Terminal	MAC-1058E	1	Head Assy., Drive End
MBY-33	1	Connector, Brush	MAB-49A	1	BEARING, ABS. BRONZE
MBY-3005S	1	FIELD COIL PACKAGE	MAW-24	1	Band, Cover
MBY-32	2	Connector, Field Coil	X-489	1	Oiler
MBY-1007	1	Coil, Field, U. L.	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MBY-1008	1	Coil, Field, L. R.	8X-794	1	Nut, Cover Band, Square #10-32
MBY-1009	1	Coil, Field, L. L.	† BRUSH SET, SERVICE MBY-2012S.		
MBY-1010	1	Coil, Field, U. R.			
MN-21	2	Pin, Dowel			
MU-37	1	Washer, Plain, Term. Stud			
8X-61	2	Screw, Brush Ground, Flat Hd. #10-32x7/16			
12X-1014	2	Lockwasher, Term. Stud 5/16			
8X-1376	2	Nut, Term., Stud, Hex. 5/16-24			
MW-20A	2	Bolt, Thru			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
<u>Comm. End Head Assembly & Parts Used With</u>					
MBY-2002B	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
<u>Armature Assembly & Parts Used With</u>					
MAK-61	1	Washer, Thrust, Comm. End			
MBY-2022F	1	ARMATURE			
MU-54	2	Washer, Thrust, C. E. & D. E., 1/32" Thick			
X-264	1	Key, Woodruff, D. E., #9			

UNIT	APPLICATION
MBY-4009	Hale (Fire Pump)

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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

MBZ-4004 STARTING MOTOR PARTS LIST

MBZ-4004
(Issued 3-29-51)

<u>Frame & Field Assembly & Parts Used With</u>			<u>Comm. End Head Assembly (Continued)</u>		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MBZ-26	1	Bracket, Mounting	8X-61	1	Screw, Brg. Retaining, Flat Hd. #10-32x7/16
(MBZ-2001)	1	Frame & Field Assy.	X-63	3	Screw, C.E. Cover, Flat Hd. #8-32x3/8
GAL-44	1	Insulation, Field Connection	8X-119	4	Screw, Comm. End Head, Fill. Hd. #10-32x1/2
GAM-1005Q	1	COIL ASSY., FIELD, COMP.	12X-196	4	Lockwasher, C.E. Head Sc., #10
GAM-1007L	1	Coil Assy., Field, Left	X-293	1	BEARING, BALL, S.A.E. #201
MBZ-15	1	Stud, Terminal	<u>Armature Assembly & Parts Used With</u>		
MBZ-31	1	Lead Assy.	MBZ-41	1	Spacer, Armature Shaft
X-1425	1	Terminal	MBZ-2050F	1	ARMATURE
GAM-1008K	1	Coil Assy., Field, Right	SP-633	1	Fan, Ventilating
X-959	1	Terminal	X-260	1	Key, Woodruff, #5
GK-38	2	Screw, Pole Shoe	<u>Switch Assembly & Parts Used With</u>		
MAB-31	1	Washer, Ins., Term. Stud, Outer	SS-108	1	Connector
MBZ-25	1	Insulation, Term. Stud, Inner	SSM-4002	1	SWITCH, STARTING
MU-31	1	Bushing, Ins., Term. Stud	8X-173	1	Nut, Hex. #10-32
MU-37	1	Washer, Plain, Term. Stud 5/16	12X-196	1	Washer, Lock, #10
8X-140	1	Nut, Field Ground Sc., Hex. #6-32	8X-832	2	Nut, Hex., 5/16-24
X-194	1	Lockwasher, Ground Sc., #6	12X-1014	2	Washer, Lock, 5/16
12X-1014	2	Lockwasher, Term. Stud, 5/16	8X-311	2	Screw, Switch Mtg., Rd. Hd. #10-32x3/8
8X-1376	2	Nut, Term. Stud, Hex. 5/16-24	X-1274	2	Washer, Switch Mtg. Sc., Skpf. #10
8X-1420	1	Screw, Field Grd., Flat Hd. #6-32x9/16	<u>Miscellaneous Parts</u>		
X-344	4	Screw, Mounting Bracket, Hex. Hd. 1/4-20x7/16	GAL-1024	1	Band, Cover
X-1272	4	Washer, Mtg. Bracket Sc., Skpf. 1/4	MBZ-44	1	Collar, D.E.
<u>Comm. End Head Assembly & Parts Used With</u>			MBZ-45	1	Collar, D.E.
GAS-69A	1	Cover, Comm. End	MBZ-1047S	1	Head Assy., Drive End
GAS-70	1	Gasket, Cover, Comm. End	DA-39	3	Washer, Felt Retaining
GAS-71	1	Washer, Bearing Retaining Sc.	GAS-103	1	Retainer, Felt Washer, Cupped
MBZ-38	1	Spacer, Bearing	GG-164	1	Washer, Felt
MBZ-39	1	Washer, Bearing	MBZ-36	1	Gasket, Bearing Retainer
MBZ-40	1	Washer, Felt	MBZ-46	1	Washer, Felt
MBZ-42	1	Retainer, Felt Washer	MBZ-47S	1	Head, Drive End
MBZ-2002	1	Head Assy., Comm. End	MBZ-1034	1	Retainer, Bearing
MBZ-1002	1	Head Assy., Part. al, C.E.	X-295	1	BEARING, BALL
GAR-219	2	Arm, Brush	X-196	3	Lockwasher, Retainer Sc. #10
GAR-221	2	Spring, Brush	8X-709	3	Screw, Bearing Retainer Fill. Hd. #10-32x7/16
MBZ-1012+	2	Brush	8X-120	4	Screw, D.E. Head, Fill. Hd. #10-32x5/8
12X-195	2	Lockwasher, Brush Lead Sc., #8	12X-196	4	Lockwasher, D.E. Head Sc. #10
8X-305	2	Screw, Brush Lead, Rd. Hd. #8-32x1/4			

(Continued on Reverse Side)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MBZ-4004 STARTING MOTOR PARTS (Cont'd.)

Miscellaneous Parts (Continued)

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

† BRUSH SET, SERVICE MBZ-2012S.

UNIT	APPLICATION
MBZ-4004	Johnson Service

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCA-4002 STARTING MOTOR PARTS LIST

MCA-4002

Frame & Field Assembly & Parts Used With			Comm. End Head Assembly & Parts (Cont'd.)		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MBZ-26	1	Bracket, Mounting	X-63	3	Screw, C.E. Cover, Flat Hd. #8-32x3/8
(MCA-2001)	1	Frame & Field Assy.	8X-119	4	Screw, C.E. Head, Fill. Hd. #10-32x1/2
GAL-44	1	Insulation, Field Connection	12X-195	1	Lockwasher, Brush Lead Sc., #8
GK-38	2	Screw, Pole Shoe	12X-196	4	Lockwasher, C.E. Head Sc., #10
MAB-31	1	Washer, Ins., Term. Stud, Outer	X-293	1	Bearing, Ball, S.A.E. #201
MBZ-25	1	Insulation, Term. Stud, Inner	8X-305	1	Screw, Brush Lead, Rd. Hd. #8-32x1/4
MCA-1005	1	COIL ASSY., FIELD, COMP.	<u>Armature Assembly & Parts Used With</u>		
MCA-1007	1	Coil Assy., Field, Left	MCA-2006F	1	ARMATURE
MBZ-15	1	Stud, Terminal	SP-633	1	Fan, Ventilating
MBZ-31	1	Lead Assy.	X-260	1	Key, Woodruff, #5
X-1425	1	Terminal	<u>Switch Assembly & Parts Used With</u>		
MCA-1008	1	Coil Assy., Field, Right	SS-108	1	Connector
X-959	1	Terminal	SSK-4005	1	SWITCH, STARTING
MU-31	1	Bushing, Ins., Term. Stud	8X-173	1	Nut, Hex. #10-32
MU-37	1	Washer, Plain, Term. Stud, 5/16	12X-196	1	Lockwasher, #10
8X-140	1	Nut, Field Ground Sc., Hex. #6-32	8X-832	2	Nut, Hex. 5/16-24
X-194	1	Lockwasher, Ground Sc., #6	12X-1014	2	Lockwasher, 5/16
X-1014	2	Lockwasher, Term. Stud, 5/16	8X-311	2	Screw, Switch Mtg., Rd. Hd. #10-32x3/8
8X-1376	2	Nut, Term. Stud, Hex. 5/16-24	X-1274	2	Washer, Switch Mtg., Skpf. #10
8X-1420	1	Screw, Field Grd., Flat Hd. #6-32x9/16	<u>Miscellaneous Parts</u>		
X-344	4	Screw, Mounting Bracket, Hex. Hd. 1/4-20x7/16	GAL-1024E	1	Band, Head
X-1272	4	Washer, Mtg. Bracket Sc., Skpf. 1/4	MBZ-44	1	Collar, D.E.
<u>Comm. End Head Assembly & Parts Used With</u>			MBZ-45	1	Collar, D.E.
GAS-69A	1	Cover, Comm. End	MBZ-1047S	1	Head Assy., Drive End
GAS-70	1	Gasket, Cover, Comm. End	DA-39	3	Washer, Felt Retaining
GAS-71	1	Washer, Bearing Retaining Sc.	GAS-103	1	Retainer, Felt Washer, Cupped
MBZ-38	1	Spacer, Bearing	GG-164	1	Washer, Felt
MBZ-39	1	Washer, Bearing	MBZ-36	1	Gasket, Bearing Retainer
MBZ-40	1	Washer, Felt	MBZ-46	1	Washer, Felt
MBZ-41	1	Spacer, Armature Shaft	MBZ-47S	1	Head, D.E.
MBZ-42	1	Retainer, Felt Washer	MBZ-1034	1	Retainer, Bearing
MBZ-2002	1	Head Assy., Comm. End	X-196	3	Lockwasher, Retainer Screw, #10
MBZ-1002	1	Head Assy., Partial, C.E.	X-295	1	BEARING, BALL, S.A.E. #203
GAR-219	2	Arm, Brush	8X-709	3	Screw, Bearing Retainer Fill. Hd. #10-32x7/16
GAR-221	2	Spring, Brush			
MBZ-1012†	2	Brush			
X-195	1	Lockwasher, Brush Lead Sc., #8			
8X-305	1	Screw, Brush Lead, Rd. Hd. #8-32x1/4			
8X-61	1	Screw, Bearing Retaining, Flat Hd. #10-32x7/16			

(Continued on Reverse Side)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCA-4002 STARTING MOTOR PARTS (Cont'd.)

Miscellaneous Parts (Continued)

Part No.	No. Used	Name of Part
8X-120	4	Screw, D.E. Head, Fill. Hd., #10-32x5/8
12X-196	4	Lockwasher, Drive End Head Screw, #10
X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32

† BRUSH SET, SERVICE MBZ-2012S.

UNIT	APPLICATION
MCA-4002	Towmotor, Lewis Sheppard

(Issued 4-5-49)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCA-4003 STARTING MOTOR PARTS LIST

MCA-4003

Frame & Field Assembly & Parts Used With			Comm. End Head Assembly (Continued)						
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part				
MBZ-26	1	Bracket, Mounting	8X-119	4	Screw, C.E. Head, Fill. Hd. #10-32x1/2				
(MCA-2001)	1	Frame & Field Assy.	12X-196	4	Lockwasher, C.E. Head Sc., #10				
GAL-44	1	Insulation, Field Connection	X-1498	1	Bearing, Ball				
GK-38	2	Screw, Pole Shoe	Armature Assembly & Parts Used With						
MAB-31	1	Washer, Ins., Term. Stud, Outer	MCA-2050F	1	ARMATURE				
MBZ-25	1	Insulation, Term. Stud, Inner	SP-633	1	Fan, Ventilating				
MCA-1005	1	COIL ASSY., FIELD, COMP.	X-260	1	Key, Woodruff, #5				
MCA-1007	1	Coil Assy., Field, Left Stud, Terminal	Switch Assembly & Parts Used With						
MBZ-15	1	Lead Assy. Terminal	SS-108	1	Connector				
MBZ-31	1	Coil Assy., Field, Right Terminal	SSK-4005	1	SWITCH, STARTING				
X-1425	1	Bushing, Ins., Term. Stud	8X-173	1	Nut, Hex., #10-32				
MCA-1008	1	Washer, Plain, Term. Stud, 5/16	12X-196	1	Lockwasher, #10				
X-959	1	Nut, Field Ground Sc., Hex. #6-32	8X-832	2	Nut, Hex. 5/16-24				
MU-31	1	Lockwasher, Ground Sc., #6	12X-1014	2	Lockwasher, 5/16				
MU-37	1	Lockwasher, Term. Stud, 5/16	8X-311	2	Screw, Switch Mtg., Rd. Hd. #10-32x3/8				
8X-140	1	Nut, Term. Stud, Hex. 5/16-24	X-1274	2	Washer, Switch Mtg., Skpf. #10				
X-194	1	Screw, Field Grd., Flat Hd. #6-32x9/16	Miscellaneous Parts						
12X-1014	2	Screw, Mtg. Bracket, Hex. Hd. 1/4-20x7/16	GAL-1024E	1	Band, Cover				
8X-1376	2	Washer, Mtg. Bracket Sc., Skpf. 1/4	MBZ-1003	1	Head Assy., Drive End				
8X-1420	1	Head Assy., Comm. End	MBZ-3	1	Head				
X-344	4	Gasket, Bearing Retainer	MBZ-36	1	Gasket, Bearing Retainer				
X-1272	4	Retainer, Bearing	MBZ-1034	1	Retainer, Bearing				
Comm. End Head Assembly & Parts Used With			12X-196	3	Lockwasher, Retainer Sc., #10				
GAS-69A	1	Cover, Comm. End	8X-709	3	Screw, Retainer, Fill. Hd. #10-32x7/16				
GAS-70	1	Gasket, Cover, Comm. End	X-1499	1	BEARING, BALL				
GAS-71	1	Washer, Bearing Retaining Sc.	8X-120	4	Screw, D.E. Head, Fill. Hd. #10-32x5/8				
MBZ-28	1	Spacer, Bearing	12X-196	4	Lockwasher, D.E. Hd. Screw, #10				
MBZ-2002	1	Head Assy., Partial, C.E.	X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2				
GAR-219	2	Arm, Brush	8X-794	1	Nut, Cover Band, Square #10-32				
GAR-221	2	Spring, Brush	† BRUSH SET, SERVICE MBZ-2012S						
MBZ-1012†	2	Brush	<table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">UNIT</td> <td style="padding: 5px;">APPLICATION</td> </tr> <tr> <td style="padding: 5px;">MCA-4003</td> <td style="padding: 5px;">Defiance</td> </tr> </table>			UNIT	APPLICATION	MCA-4003	Defiance
UNIT	APPLICATION								
MCA-4003	Defiance								
12X-195	2	Lockwasher, Brush Lead Sc., #8							
8X-305	2	Screw, Brush Lead, Rd. Hd. #8-32x1/4							
8X-61	1	Screw, Bearing Retaining, Flat Hd. #10-32x7/16							
X-63	3	Screw, Cover, Flat Hd. #8-32x3/8							

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(Issued 3-6-50)

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCH-4001 STARTING MOTOR PARTS LISTS

MCH-4001
(Issued 3-17-52)

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
MCH-2001	1	Frame & Field Assy.	MCH-2006	1	Armature
GK-38	4	Screw, Pole Shoe	MU-54	*	Washer, Thrust, C. E., 1/32" Thick
MAB-12†	2	Brush	MU-54A	*	Washer, Thrust, C. E., 1/64" Thick
MAB-31	1	Washer, Ins., Term. Stud, Outer	MU-54B	*	Washer, Thrust, C. E., 3/64" Thick
MAB-65	1	Terminal	X-261	1	Key, Woodruff, #6
MAB-85	1	Bushing, Ins., Term. Stud	<u>Miscellaneous Parts</u>		
MAT-30	1	Insulation, Field Connection	EBA-33	1	Bendix Drive Assembly
MCH-3005S	1	FIELD COIL PACKAGE	EBA-1213	1	Spring, Anti-Drift
MCH-1009	1	Coil, Field, Left	EBA-1225	1	Spring, Meshing
MCH-1010	1	Coil, Field, Right	EBA-1232	1	Pinion
MN-21	2	Pin, Dowel	EBA-1233	1	Ring, Retaining
MU-28	1	Stud, Terminal	EBA-2006	1	Pin, Locating
MU-37	1	Washer, Plain, Term. Stud, 5/16	EBA-2007	2	Plate, Spring Anchor
MU-39	1	Washer, Ins., Term. Stud Inner	EBA-2008	1	Ring, Lock
12X-1014	2	Lockwasher, Term. Stud, 5/16	EBA-2031	1	Shaft
8X-1376	2	Nut, Term. Stud, Hex. 5/16-24	EBA-2105	1	Spring, Drive
MW-20A	2	Bolt, Thru	MAW-24	1	Band, Cover
12X-199	2	Lockwasher, Thru Bolt, 1/4	MN-18	1	Washer, Thrust, D. E.
<u>Comm. End Head Assembly & Parts Used With</u>			PS-1264	1	Housing Assy., Pinion
MCH-2002	1	Head Assy., Comm. End	MP-41A	1	Bearing, Absorbent Bronze
MAD-110	1	Felt	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MZ-19	4	Spring, Brush	8X-794	1	Nut, Cover Band, Square #10-32
MZ-1034S†	2	Brush, Grounded			

† Brush Set, Service MAB-2012AS.

* Use as Required.

UNIT	APPLICATION
MCH-4001	Studebaker, Studebaker (Truck)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCH-6001M STARTING MOTOR PARTS LIST

MCH-6001M
(Issued 3-17-52)

<u>Frame & Field Assembly & Parts Used With</u>		
Part No.	No. Used	Name of Part
GJ-20A	2	Bolt, Thru
MCH-2031A	1	Frame & Field Assy.
GK-38C	4	Screw, Pole Shoe
MAB-12†	2	Brush
MAB-31A	1	Washer, Ins., Term. Stud, Outer
MAB-65	1	Terminal
MAB-85A	1	Bushing, Ins., Term. Stud
MAT-30	1	Insulation, Field Connection
MAW-59	1	Equalizer
MCH-3005S	1	FIELD COIL PACKAGE
MCH-1009	1	Coil, Field, Left
MCH-1010	1	Coil, Field, Right
MN-21A	2	Pin, Dowel
MU-28	1	Stud, Terminal
MU-37G	1	Washer, Plain, Term. Stud
MU-39A	1	Washer, Ins., Term. Stud, Inner
X-180	2	Nut, Term. Stud, Hex. 5/16-24
12X-1014	2	Lockwasher, Term. Stud, 5/16
12X-199	2	Lockwasher, Thru Bolt, 1/4
<u>Comm. End Head Assembly & Parts Used With</u>		
MCH-2002A	1	Head Assy., Comm. End
MAD-110	1	Felt
MZ-19A	4	Spring, Brush
MZ-1034S†	2	Brush, Grounded
<u>Armature Assembly & Parts Used With</u>		
MCH-2021M	1	ARMATURE
MU-54F	*	Washer, Arm. Thrust, C.E. & D.E. 1/32" Thick
MU-54G	*	Washer, Arm. Thrust, C.E. & D.E., 1/64" Thick
MU-54J	*	Washer, Arm. Thrust, C.E. & D.E., .046" Thick
X-261	1	Key, Woodruff, #6
<u>Switch Assembly & Parts Used With</u>		
MAX-89R	1	Connector
SSP-4001M	1	SWITCH, SOLENOID
12X-196	1	Lockwasher, #10
12X-1014	2	Lockwasher, 5/16
8X-2843	2	Nut, Hex. 5/16-24
8X-2853	1	Nut, Hex. #10-32
X-20	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
X-1270	2	Washer, Switch Mtg. Sc., Skpf., #10

<u>Miscellaneous Parts</u>		
Part No.	No. Used	Name of Part
EBA-33A	1	Bendix Drive Assembly
EBA-1232A	1	Pinion
EBA-4808	1	Ring, Lock
EBA-4833	1	Ring, Retaining
EBA-7213	1	Spring, Anti-Drift
EBA-7225	1	Spring, Meshing
EBA-7905	1	Spring, Drive
EBA-7906	1	Pin, Locating
EBA-7907	2	Plate, Spring Anchor
EBA-7931	1	Shaft, Screw
MAB-1024N	1	Band, Cover
MCH-1040B	1	BEARING ASSY., INTERMEDIATE
MAW-130	1	Bearing, Absorbent Bronze
PS-1283A	1	Housing Assy., Pinion
MG-77A	1	BEARING, ABS. BRONZE
12X-196	2	Lockwasher, Int. Bearing Sc., #10
X-2875	1	Nut, Cover Band, Square #10-32
X-2881	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
X-2882	1	Screw, Cover Band, Fill. Hd. #10-32x1 1/2

† BRUSH SET, SERVICE MAB-2012AS.

* Use as required.

UNIT	APPLICATION
MCH-6001M	Packard (Marine)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCH-6002M STARTING MOTOR PARTS LISTS

MCH-6002M
(Issued 3-17-52)

<u>Frame & Field Assembly & Parts Used With</u>		
Part No.	No. Used	Name of Part
GJ-20A	2	Bolt, Thru
MCH-3031A	1	Frame & Field Assembly
GK-38C	4	Screw, Pole Shoe
MAB-31A	1	Washer, Ins., Term. Stud, Outer
MAB-65	1	Terminal
MAB-85A	1	Bushing, Ins., Term. Stud
MAT-30	1	Insulation, Field Connection
MAW-59	1	Equalizer
MCH-3005S	1	FIELD COIL PACKAGE
MCH-1009	1	Coil, Field, Left
MCH-1010	1	Coil, Field, Right
MCJ-12†	2	Brush
MN-21A	2	Pin, Dowel
MU-28	1	Stud, Terminal
MU-37G	1	Washer, Plain, Term. Stud
MU-39A	1	Washer, Ins., Term. Stud, Inner
X-180	2	Nut, Term. Stud, Hex. 5/16-24
12X-1014	2	Lockwasher, Term. Stud, 5/16
12X-199	2	Lockwasher, Thru Bolt, 1/4

<u>Comm. End Head Assembly & Parts Used With</u>		
MCH-3030A	1	Head Assy., Comm. End
MAD-110	1	Felt
MZ-19A	4	Spring, Brush
MZ-1034S†	2	Brush, Grounded

<u>Armature Assembly & Parts Used With</u>		
MCH-2021M	1	ARMATURE
MU-54F	*	Washer, Arm. Thrust, C.E. & Int., 1/32" Thick
MU-54G	*	Washer, Arm. Thrust, C.E. & Int., 1/64" Thick
MU-54J	*	Washer, Arm. Thrust, C.E. & Int., .046" Thick
X-261	1	Key, Woodruff, #6

<u>Switch Assembly & Parts Used With</u>		
MAX-89R	1	Connector
SSP-4001M	1	SWITCH, SOLENOID
12X-196	1	Lockwasher, #10
12X-1014	2	Lockwasher, 5/16
8X-2843	2	Nut, Hex. 5/16-24
8X-2853	1	Nut, Hex. #10-32
X-20	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
X-1270	2	Washer, Switch Mtg. Sc., Skpf. #10

<u>Miscellaneous Parts</u>		
Part No.	No. Used	Name of Part
EBB-4A	1	BENDIX DRIVE ASSY.
EBA-4431A	1	Shaft
EBA-4805	1	SPRING, DRIVE
EBA-4807	2	Plate, Spring Anchor
EBA-4808	1	Ring, Lock
EBA-4813	1	Spring, Anti-Drift
EBA-4825	1	Spring, Meshing
EBA-4832	1	Pinion
EBA-4833	1	Ring, Retaining
EBA-7906	1	Pin, Locating
MAB-1024N	1	Band, Cover
MCH-1040B	1	BEARING, ASSY., INTERMEDIATE
MAW-130	1	Bearing, Absorbent Bronze
PS-1283A	1	Housing Assy., Pinion
MG-77A	1	BEARING, ABSORBENT BRONZE
12X-196	2	Lockwasher, Int. Bearing Sc., #10
X-2875	1	Nut, Cover Band, Square #10-32
X-2881	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
X-2882	1	Screw, Cover Band, Fill. Hd. #10-32x1 1/2

* Use as required.

† BRUSH SET, SERVICE MCJ-2012BS.

UNIT	APPLICATION
MCH-6002M	Packard (Marine)

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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

MCH-6003 STARTING MOTOR PARTS LIST

MCH-6003
(Issued 3-17-52)

Frame & Field Assembly & Parts Used With			Miscellaneous Parts		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20A	2	Bolt, Thru	EBA-33	1	BENDIX DRIVE ASSEMBLY
MCH-2031	1	Frame & Field Assy.	EBA-1213	1	Spring, Anti-Drift
GK-38	4	Screw, Pole Shoe	EBA-1225	1	Spring, Meshing
MAB-12†	2	Brush	EBA-1232	1	Pinion
MAB-31	1	Washer, Ins., Term. Stud, Outer	EBA-1233	1	Ring, Retaining
MAB-65	1	Terminal	EBA-2006	1	Pin, Locating
MAB-85	1	Bushing, Ins., Term. Stud	EBA-2007	2	Plate, Spring Anchor
MAT-30	1	Insulation, Field Connection	EBA-2008	1	Ring, Lock
MAW-59	1	Equalizer	EBA-2031	1	Shaft
MCH-3005S	1	FIELD COIL PACKAGE	EBA-2105	1	SPRING, DRIVE
MCH-1009	1	Coil, Field, Left	MAW-24	1	Band, Cover
MCH-1010	1	Coil, Field, Right	MCH-1040	1	BEARING ASSY., INT.
MN-21	2	Pin, Dowel	MAW-130	1	Bearing, Absorbent Bronze
MU-37	1	Washer, Plain, Term. Stud	PS-1283C	1	Housing Assy., Pinion
MU-39	1	Washer, Ins., Term. Stud, Inner	MG-77A	1	BEARING, ABS. BRONZE
MZ-209	1	Stud, Terminal	12X-196	2	Lockwasher, Int. Bearing Sc. #10
8X-164	2	Nut, Term. Stud, Hex. 5/16-18	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
12X-1014	2	Lockwasher, Term. Stud, 5/16	8X-794	1	Nut, Cover Band, Square #10-32
12X-199	2	Lockwasher, Thru Bolt, 1/4	8X-1368	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
<u>Comm. End Head Assembly & Parts Used With</u>			† BRUSH SET, SERVICE MAB-2012AS. * Use as required.		
MCH-2002B	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
MZ-1034S†	2	Brush, Grounded			
<u>Armature Assembly & Parts Used With</u>					
MCH-2021	1	ARMATURE			
MU-54	*	Washer, Thrust, C.E. & Int., 1/32" Thick			
MU-54A	*	Washer, Thrust, C.E. & Int., 1/64" Thick			
MU-54B	*	Washer, Thrust, C.E. & Int., 3/64" Thick			
X-261	1	Key, Woodruff, #6			
<u>Switch Assembly & Parts Used With</u>					
MAX-89R	1	Connector			
SS-4017	1	SWITCH, SOLENOID			
8X-173	1	Nut, Hex. #10-32			
12X-196	1	Lockwasher, #10			
8X-832	2	Nut, Hex. 5/16-24			
12X-1014	2	Lockwasher, 5/16			
8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16			
12X-1270	2	Washer, Switch Mtg. Sc., Skpf. #10			

UNIT	APPLICATION
MCH-6003	Packard

Printed in U. S. A.

File in
Equipment & Parts List Binder

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



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCH-6004 STARTING MOTOR PARTS LIST

MCH-6004

Frame & Field Assembly & Parts Used With			Switch Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20A	2	Bolt, Thru	MAX-89L	1	Connector
(MCH-2031)	1	Frame & Field Assy.	SST-4004	1	Solenoid Switch
GK-38	4	Screw, Pole Shoe	8X-164	2	Nut, Hex. 5/16-18
MAB-12 †	2	Brush	8X-173	1	Nut, Hex. #10-32
MAB-31	1	Washer, Ins., Term. Stud, Outer	12X-196	1	Lockwasher, #10
MAB-65	1	Terminal Clip	12X-1014	2	Lockwasher, 5/16
MAB-85	1	Bushing, Ins., Term. Stud	8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
MAT-30	1	Insulation, Field Connection	X-1270	2	Washer, Switch Mtg., Skpf. #10
MAW-59	1	Equalizer			
MCH-3005S	1	Field Coil Package			<u>Miscellaneous Parts</u>
MCH-1009	1	Coil, Field, Left	EBA-52	1	Bendix Drive Assy.
MCH-1010	1	Coil, Field, Right	EBA-1213	1	Spring, Anti-Drift
MN-21	2	Pin, Dowel	EBA-1225	1	Spring, Meshing
MU-37	1	Washer, Plain, Term. Stud	EBA-1233	1	Ring, Retaining
MU-39	1	Washer, Ins., Term. Stud, Inner	EBA-2006	1	Pin, Locating
MZ-209	1	Stud, Terminal	EBA-2007	2	Plate, Spring Anchor
8X-164	2	Nut, Term. Stud, Hex. 5/16-18	EBA-2008	1	Ring, Lock
12X-1014	2	Lockwasher, Term. Stud, 5/16	EBA-2031	1	Screw Shaft
12X-199	2	Lockwasher, Thru Bolt, 1/4	EBA-2105	1	Spring, Drive
			EBA-7632	1	Pinion
			MAW-24	1	Band, Cover
			MCJ-1040	1	Bearing Assy., Intermediate
			MAW-130	1	Bearing, Abs. Bronze
			PS-1287	1	Housing Assy., Pinion
			MG-77A	1	Bearing, Abs. Bronze
			12X-196	2	Lockwasher, Int. Brg. Sc., #10
			8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
			8X-794	1	Nut, Cover Band, Square #10-32
			8X-1368	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
					* Use as required.
					† Brush Set, Service MAB-2012AS.
<u>Comm. End Head Assembly & Parts Used</u>					
MCH-2002B	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
MZ-1034S†	2	Brush, Grounded			
<u>Armature Assembly & Parts Used With</u>					
MCH-2021	1	Armature			
MU-54	*	Washer, Thrust, 1/32" Thick			
MU-54A	*	Washer, Thrust, 1/64" Thick			
MU-54B	*	Washer, Thrust, 3/64" Thick			
X-261	1	Key, Woodruff, #6			

UNIT	APPLICATION
MCH-6004	Checker Cab

(Issued 7-15-48)

Printed in U. S. A.

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



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCH-6101 STARTING MOTOR PARTS LIST

MCH-6101
(Issued 1-10-51)

Frame & Field Assembly & Parts Used With			Miscellaneous Parts		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name Of Part
GJ-20	2	Bolt, Thru	EBB-8	1	BENDIX DRIVE ASSEMBLY
(MCH-2035)	1	Frame & Field Assembly	EBA-1213	1	Spring, Anti- Drift
GK-38	4	Screw, Pole Shoe	EBA-1225	1	Spring, Meshing
MAB-31A	1	Washer, Ins., Term. Stud, Outer	EBA-1233	1	Ring, Retaining
MAB-85	1	Bushing, Ins., Term. Stud	EBA-2006	1	Pin, Locating
MCH-13 †	2	Brush, Grounded	EBA-2007	2	Plate, Spring Anchor
MCH-34	1	Stud, Terminal, 5/16-18	EBA-2008	1	Ring, Lock
MCH-47	1	Equalizer	EBA-2031	1	Shaft
MCH-3005BS	1	FIELD COIL PACKAGE	EBA-2105	1	SPRING, DRIVE
MCH-1009B	1	Coil, Field, Left	EBB-832	1	Pinion
MCH-1010B	1	Coil, Field, Right	MCH-1024	1	Band, Cover
MCJ-39B	1	Washer, Ins., Term. Stud, Inner	MCH-1051	1	BEARING ASSY., INTERMEDIATE
MN-21	2	Pin, Dowel	MCH-53	1	Bearing, Abs. Bronze
MU-37	1	Washer, Plain, Term. Stud	PS-1291	1	Housing Assy., Pinion
MZ-12 †	2	Brush	MG-77A	1	BEARING, ABS. BRONZE
12X-196	2	Lockwasher, Ground Sc., #10	12X-196	2	Lockwasher, Int. Brg. Sc., #10
8X-321	2	Screw, Ground, Rd. Hd. #10-32x5/16	8X-1368	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
12X-1014	1	Lockwasher, Term. Stud, 5/16			
8X-2988	1	Nut, Term. Stud, Hex. 5/16-18			
8X-164	1	Nut, Term. Stud, Hex. 5/16-18			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
12X-1014	1	Lockwasher, Terminal Stud, 5/16			

† BRUSH SET, SERVICE MZ-2012BS.

* Use as required.

Comm. End Head Assembly & Parts Used With

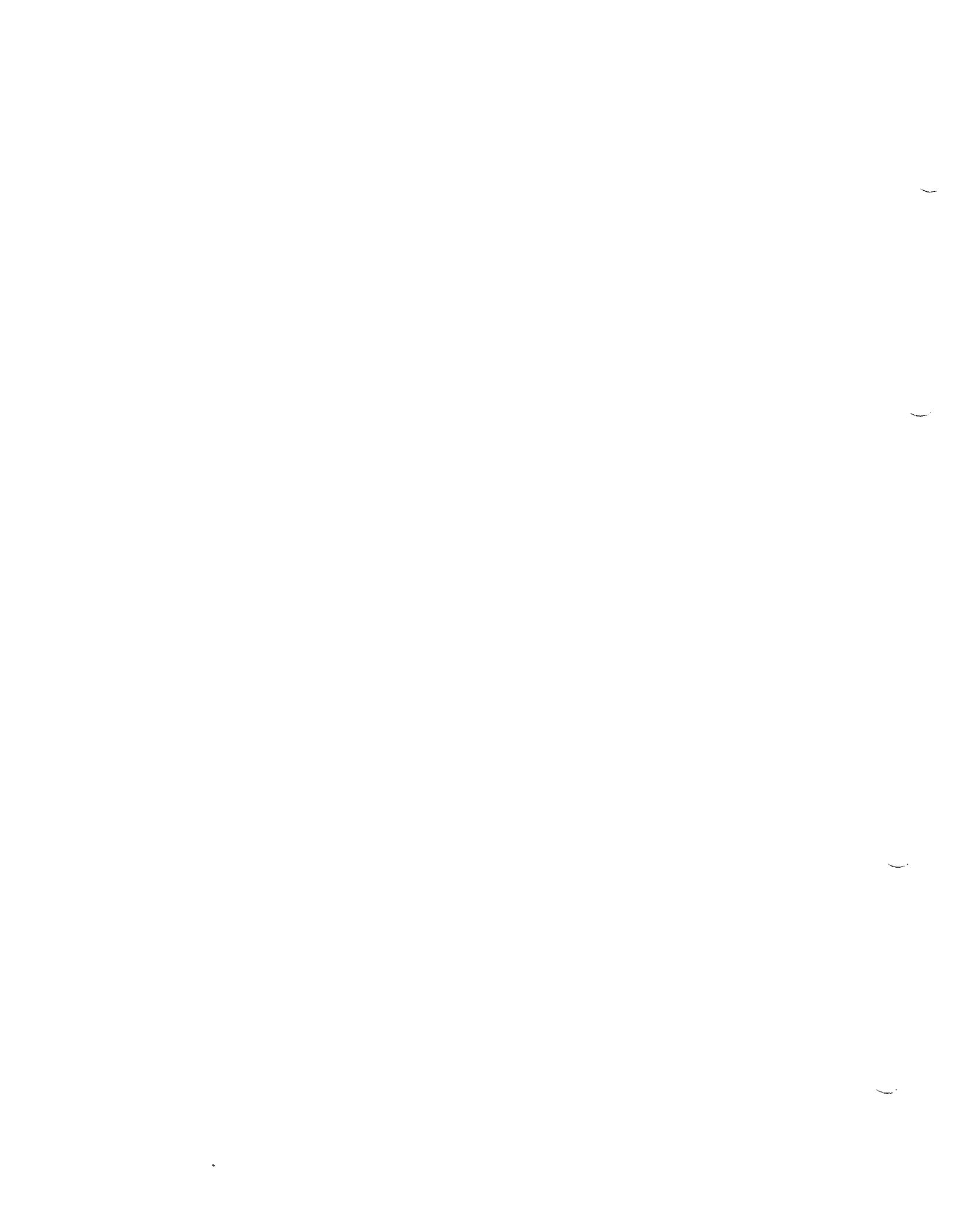
MCH-2002C	1	Head Assy., Comm. End
MAD-110	1	Felt
MZ-19	4	Spring, Brush

Armature Assembly & Parts Used With

MCH-2028	1	ARMATURE
MU-54	*	Washer, Thrust, C.E. & D.E., 1/32" Thick
MU-54B	*	Washer, Thrust, C.E. & D.E., 3/64" Thick
MU-54L	*	Washer, Thrust, C.E. & D.E., 1/16" Thick
X-261	1	Key, Woodruff, #6

UNIT	APPLICATION
MCH-6101	Dodge, Plymouth

"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

MCH-6102 STARTING MOTOR PARTS LIST

MCH-6102
(Issued 3-17-52)

Frame & Field Assembly & Parts Used With			Clutch Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru	MAX-71	1	Pin, Yoke
MCH-2035A	1	Frame & Field Assy.	MCH-58	2	Retainer, Yoke Spring
GK-38	4	Screw, Pole Shoe	MCH-62	1	Spring, Yoke
MAB-31A	1	Washer, Ins., Term. Stud, Outer	MCH-76	1	Pin, Link
MAB-85	1	Bushing, Ins., Term. Stud	MCH-2056	1	Yoke
MCH-13†	2	Brush, Grounded	MCL-3098A	1	CLUTCH, STARTER
MCH-34A	1	Stud, Terminal	12X-201	1	Lockwasher, Yoke Pin, 3/8
MCH-47	1	Equalizer	X-401	1	Pin, Cotter, 1/16x3/8
MCH-3005BS	1	FIELD COIL PACKAGE	8X-830	1	Nut, Yoke Pin, Hex. 3/8-16
MCH-1009B	1	Coil, Field, Left	<u>Miscellaneous Parts</u>		
MCH-1010B	1	Coil, Field, Right	MAW-24	1	Band, Cover
MCJ-39B	1	Washer, Ins., Term. Stud, Inner	MN-18	1	Washer, Thrust, D. E.
MN-21	2	Pin, Dowel	PS-1293	1	Housing Assy., Pinion
MU-37	1	Washer, Plain, Term. Stud	MP-41A	1	BEARING, ABS. BRONZE
MZ-12†	2	Brush	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
12X-196	2	Lockwasher, Ground Sc., #10	8X-794	1	Nut, Cover Band, Square #10-32
8X-321	2	Screw, Ground, Rd. Hd. #10-32x5/16	† BRUSH SET, SERVICE MZ-2012BS.		
12X-1014	1	Lockwasher, Term. Stud, 5/16	* Use as Required.		
8X-2988	1	Nut, Term. Stud, Hex. 5/16-18			
8X-164	1	Nut, Term. Stud, Hex. 5/16-18			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
12X-1014	1	Lockwasher, Terminal Stud, 5/16			
<u>Comm. End Head Assembly & Parts Used With</u>					
MCH-2002C	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
<u>Armature Assembly & Parts Used With</u>					
MCH-2039	1	ARMATURE			
MU-54	*	Washer, Thrust, C. E., 1/32" Thick			
MU-54B	*	Washer, Thrust, C. E., 3/64" Thick			
MU-54K	*	Washer, Thrust, C. E., .080" Thick			
<u>Switch Assembly & Parts Used With</u>					
MCH-63	1	Connector			
SS-4707	1	SOLENOID STARTING SWITCH (See Separate List for Parts)			
12X-201	2	Lockwasher, Switch Term., 3/8			
8X-467	4	Screw, Switch Mtg., Hex. Hd. 1/4-20x3/8			
8X-830	2	Nut, Switch Term. Hex. 3/8-16			
X-1272	4	Washer, Switch Mtg., Skpf., 1/4			

UNIT	APPLICATION
MCH-6102	De Soto

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCH-6103 STARTING MOTOR PARTS LIST

MCH-6103

Frame & Field Assembly & Parts Used With			Clutch Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru	MAX-71	1	Pin, Yoke
(MCH-2055)	1	Frame & Field Assy.	MCH-58	2	Retainer, Yoke Spring
GK-38	4	Screw, Pole Shoe	MCH-62	1	Spring, Yoke
MAB-12 †	2	Brush	MCH-2059	1	Yoke
MAT-30	1	Insulation, Field Connection	MCL-3098A	1	STARTER CLUTCH
MAW-35	1	Stud, Terminal	12X-201	1	Lockwasher, Yoke Pin, 3/8
MAW-37	1	Bushing, Ins., Term. Stud	8X-830	1	Nut, Yoke Pin, Hex. 3/8-16
MAW-39	1	Insulation, Switch Contact	<u>Miscellaneous Parts</u>		
MAW-51	1	Insulation, Field Connection	MAW-24	1	Band, Cover
MCH-13 †	2	Brush, Grounded	MN-18	1	Washer, Thrust, D.E.
MCH-25	1	Washer, Ins., Term. Stud, Inner	PS-1294	1	Housing Assy., Pinion
MCH-66	1	Equalizer	MP-41A	1	BEARING, ABS. BRONZE
MCH-3005CS	1	FIELD COIL PACKAGE	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MCH-1009C	1	Coil, Field, Left	8X-794	1	Nut, Cover Band, Square #10-32
MCH-1010C	1	Coil, Field, Right	† BRUSH SET, SERVICE MAB-2012CS.		
MN-21	2	Pin, Dowel	* Use as Required.		
SW-763	1	Contact, Switch			
12X-196	2	Lockwasher, Brush Grd. Sc., #10			
8X-321	2	Screw, Brush Grd., Rd. Hd. #10-32x5/16			
8X-830	1	Nut, Term. Stud, Hex. 3/8-16			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
<u>Comm. End Head Assembly & Parts Used With</u>					
MCH-2064	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
<u>Armature Assembly & Parts Used With</u>					
MCH-2039	1	ARMA TURE			
MU-54	*	Washer, Thrust, C.E., 1/32" Thick			
MU-54B	*	Washer, Thrust, C.E., 3/64" Thick			
<u>Switch Assembly & Parts Used With</u>					
SW-2813	1	SWITCH, STARTER			
12X-201	1	Lockwasher, 3/8			
8X-830	1	Nut, Hex. 3/8-16			
8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16			
X-1270	2	Washer, Sw. Mtg. Screw, Skpf. #10			

UNIT	APPLICATION
MCH-6103	Dodge (Truck)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCH-6106F STARTING MOTOR PARTS LIST

MCH-6106F
(Issued 2-5-54)

Frame & Field Assembly & Parts Used With			Clutch Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru	MCH-77	1	Pin, Yoke
MCH-2097CS	1	Frame & Field Assy.	MCH-2099	1	Yoke
GK-38	4	Screw, Pole Shoe	MCL-3075	1	STARTER CLUTCH
MAW-35	1	Stud, Terminal	X-406	1	Pin, Cotter, Yoke Pin, 3/32x1/2
MAW-37	1	Bushing, Ins. , Term. Stud	<u>Miscellaneous Parts</u>		
MAW-51	1	Insulation, Field Connection	MCH-1024S	1	Band, Cover
MCH-13†	2	Brush, Grounded	MCS-46	1	Retainer & Pinion Stop
MCH-25A	1	Washer, Ins. , Term. Stud	MCS-47A	1	Ring, Snap, Retainer & Pinion Stop
MCH-47	1	Equalizer	PS-1302D	1	Housing Assy. , Pinion
MCH-1009ES	1	COIL, FIELD, LEFT	MP-41A	1	BEARING, ABS. BRONZE
MCH-1010ES	1	COIL, FIELD, RIGHT	† BRUSH SET, SERVICE MZ-2012BS.		
MN-21	2	Pin, Dowel	* Use as Required.		
MZ-12†	2	Brush			
SW-764S	1	Switch Contact Package			
12X-196	2	Lockwasher, Ground Sc. , #10			
12X-201	1	Lockwasher, Term. Stud, 3/8			
8X-321	2	Screw, Ground, Rd. Hd. #10-32x5/16			
8X-830	1	Nut, Term. Stud, Hex. 3/8-16			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
Comm. End Head Assembly & Parts Used With					
MCH-2002H	1	Head Assy. , Comm. End			
MAD-110	1	Felt			
MZ-19D	4	Spring, Brush			
Armature Assembly & Parts Used With					
MCH-96	1	Washer, Thrust, Comm. End			
MCH-2070B	1	ARMATURE			
MN-18	1	Washer, Armature Thrust, D. E.			
MU-54	*	Washer, Thrust, C. E. , 1/32" Thick			
MU-54B	*	Washer, Thrust, C. E. , 3/64" Thick			
Switch Assembly & Parts Used With					
SW-2827S	1	STARTING SWITCH			
12X-201	1	Lockwasher, 3/8			
8X-830	1	Nut, Hex. 3/8-16			
8X-321	2	Screw, Switch Mtg. , Rd. Hd. #10-32x5/16			
X-1270	2	Washer, Switch Mtg. Sc. , Skpf. #10			

UNIT	APPLICATION
MCH-6106F	Dodge Truck

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCH-6107 STARTING MOTOR PARTS LIST

MCH-6107

Frame & Field Assembly & Parts Used With			Miscellaneous Parts		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru	EBA-33	1	BENDIX DRIVE ASSEMBLY
(MCH-2100)	1	Frame & Field Assy.	EBA-1213	1	Spring, Anti-Drift
GK-38	4	Screw, Pole Shoe	EBA-1225	1	Spring, Meshing
MAB-31A	1	Washer, Ins., Term. Stud, Outer	EBA-1232	1	Pinion
MAB-85	1	Bushing, Ins., Term. Stud	EBA-1233	1	Ring, Retaining
MCH-13†	2	Brush, Grounded	EBA-2006	1	Pin, Locating
MCH-34A	1	Stud, Terminal	EBA-2007	2	Plate, Spring Anchor
MCH-47	1	Equalizer	EBA-2008	1	Ring, Lock
MCH-3005BS	1	FIELD COIL PACKAGE	EBA-2031	1	Shaft
MCH-1009B	1	Coil, Field, Left	EBA-2105	1	SPRING, DRIVE
MCH-1010B	1	Coil, Field, Right	MCH-1024A	1	Band, Cover
MCJ-39B	1	Washer, Ins., Term. Stud, Inner	MCH-1051	1	BEARING ASSY., INTERMEDIATE
MN-21	2	Pin, Dowel	MCH-53	1	Bearing, Abs. Bronze
MU-37	1	Washer, Plain, Term. Stud	PS-1306	1	Housing Assy., Pinion
MZ-12†	2	Brush	MG-77A	1	BEARING, ABS. BRONZE
12X-196	2	Lockwasher, Ground Sc., #10	12X-196	2	Lockwasher, Int. Brg. Sc., #10
8X-321	2	Screw, Ground, Rd. Hd. #10-32x5/16	8X-1368	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
12X-1014	1	Lockwasher, Term. Stud, 5/16			
8X-2988	1	Nut, Term. Stud, Hex. 5/16-18			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
Comm. End Head Assembly & Parts Used With					
MCH-2002D	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
Armature Assembly & Parts Used With					
MCH-2028	1	ARMATURE			
MU-54	*	Washer, Thrust, C.E. & D.E., 1/32" Thick			
MU-54B	*	Washer, Thrust, C.E. & D.E., 3/64" Thick			
X-261	1	Key, Woodruff, #6			

† BRUSH SET, SERVICE MZ-2012BS.

* Use as required.

UNIT	APPLICATION
MCH-6107	Hudson

(Issued 10-17-50)

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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

MCH-6109 STARTING MOTOR PARTS LIST

MCH-6109

Frame & Field Assembly & Parts Used With			Miscellaneous Parts		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MAJ-51	2	Bolt, Thru	EBB-7	1	BENDIX DRIVE ASSY.
(MCH-2102)	1	Frame & Field Assy.	EBA-513	1	Spring, Anti-Drift
GK-38	4	Screw, Pole Shoe	EBA-525	1	Spring, Meshing
MAB-31A	1	Washer, Ins., Term. Stud, Outer	EBA-1233	1	Ring, Retaining
MAB-85	1	Bushing, Ins. Term. Stud	EBA-2008	1	Ring, Lock
MCH-13 †	2	Brush, Grounded	EBA-3505	1	SPRING, DRIVE
MCH-34A	1	Stud, Terminal	EBA-3507	2	Plate, Spring Anchor
MCH-47	1	Equalizer	EBA-3531	1	Shaft
MCH-3005BS	1	FIELD COIL PACKAGE	EBB-732	1	Pinion
MCH-1009B	1	Coil, Field, Left	MCH-1024A	1	Band, Cover
MCH-1010B	1	Coil, Field, Right	MCL-1003A	1	Head Assy., Drive End
MCJ-39B	1	Washer, Ins., Term. Stud, Inner	MG-77A	1	BEARING, ABS. BRONZE
MN-21	1	Pin, Dowel	MZ-124	1	Pin, Bendix
MU-37	1	Washer, Plain, Term. Stud	X-66	2	Screw, D.E. Head, Flat Hd. #10-32x1/2
MZ-12 †	2	Brush			
12X-196	2	Lockwasher, Ground Sc., #10			
8X-321	2	Screw, Ground, Rd. Hd. #10-32x5/16			
12X-1014	1	Lockwasher, Term. Stud, 5/16			
8X-2988	1	Nut, Term. Stud, Hex. 5/16-18			
X-146	2	Nut, Thru Bolt, Hex. 1/4-20			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
Comm. End Head Assembly & Parts Used With					
MCH-2002E	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
Armature Assembly & Parts Used With					
MCH-2084	1	ARMATURE			
MU-54	*	Washer, Thrust, C.E. & D.E., 1/32" Thick			
MU-54B	*	Washer, Thrust, C.E. & D.E., 3/64" Thick			

<p>† BRUSH SET, SERVICE MZ-2012BS.</p> <p>* Use as required.</p>	<table border="1" style="width: 100%; border-collapse: collapse; margin-left: auto; margin-right: auto;"> <tr> <td style="width: 50%; text-align: center;">UNIT</td> <td style="width: 50%; text-align: center;">APPLICATION</td> </tr> <tr> <td style="text-align: center;">MCH-6109</td> <td style="text-align: center;">Hudson</td> </tr> </table>	UNIT	APPLICATION	MCH-6109	Hudson
UNIT	APPLICATION				
MCH-6109	Hudson				

(Issued 10-17-50)

Printed in U. S. A.

File in
Equipment & Parts List Binder

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCH-6110 STARTING MOTOR PARTS LIST

MCH-6110
(Issued 1-25-52)

<u>Frame & Field Assembly & Parts Used With</u>			<u>Clutch Assembly & Parts Used With</u>		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru	MCH-77	1	Pin, Yoke
MCH-2097A	1	Frame & Field Assy.	MCH-2099	1	Yoke
GK-38	4	Screw, Pole Shoe	MCL-3075	1	CLUTCH, STARTER
MAW-35	1	Stud, Terminal	X-406	1	Pin, Cotter, Yoke Pin, 3/32x1/2
MAW-37	1	Bushing, Ins., Term. Stud			
MAW-39	1	Insulation, Switch Contact			
MAW-51	1	Insulation, Field Connection			
MCH-13†	2	Brush, Grounded			
MCH-25A	1	Washer, Ins., Term. Stud, Inner			
MCH-47	1	Equalizer			
MCH-3005ES	1	FIELD COIL PACKAGE			
MCH-1009E	1	Coil, Field, Left			
MCH-1010E	1	Coil, Field, Right			
MN-21	2	Pin, Dowel			
MZ-12†	2	Brush			
SW-764	1	Contact, Switch			
12X-196	2	Lockwasher, Ground Sc., #10			
12X-201	2	Lockwasher, Term. Stud, 3/8			
8X-321	2	Screw, Ground, Rd. Hd. #10-32x5/16			
8X-830	1	Nut, Term. Stud, Hex. 3/8-16			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
<u>Comm. End Head Assembly & Parts Used With</u>					
MCH-2002C	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
<u>Armature Assembly & Parts Used With</u>					
MCH-96	1	Washer, Thrust, Comm. End			
MCH-2070	1	ARMATURE ASSY.			
MCH-27	1	Spacer			
MN-18	1	Washer, Thrust, D. E.			
MU-54	*	Washer, Thrust, C. E., 1/32" Thick			
MU-54B	*	Washer, Thrust, C. E., 3/64" Thick			
<u>Switch Assembly & Parts Used With</u>					
SW-2827B	1	SWITCH, STARTING			
12X-201	1	Lockwasher, 3/8			
8X-830	1	Nut Hex. 3/8-16			
8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16			
X-1270	2	Washer, Switch Mtg. Sc., Skpf. #10			

Miscellaneous Parts

MCH-1024	1	Band, Cover
MCS-46	1	Retainer, Snap Ring
MCS-47	1	Ring, Snap
PS-1302	1	Housing Assy., Pinion
MP-41A	1	BEARING, ABS. BRONZE

† BRUSH SET, SERVICE MZ-2012BS.

* Use as required.

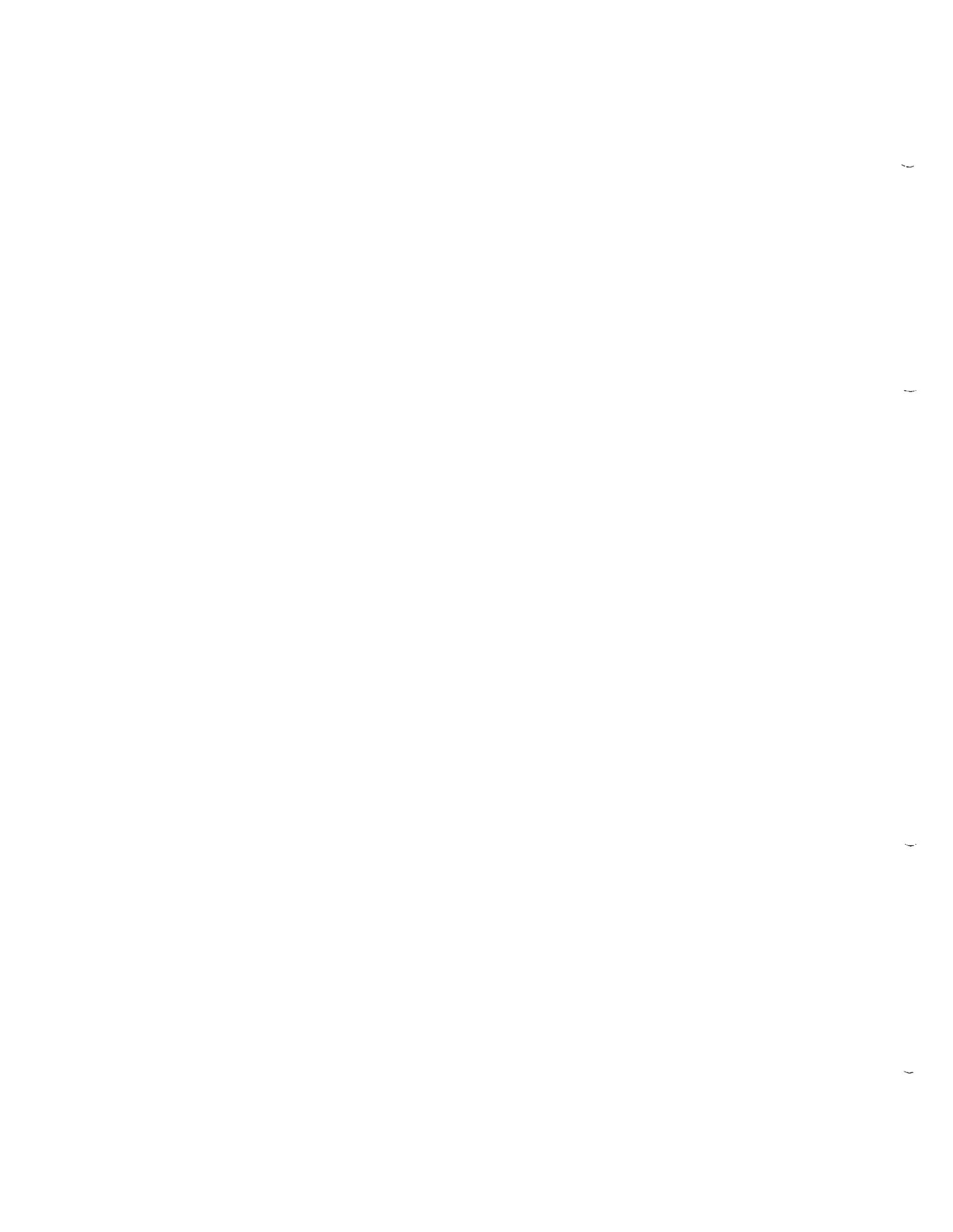
UNIT	APPLICATION
MCH-6110	Chrysler Ind. (Canada)

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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

MCH-6113, A STARTING MOTOR (Continued)

Assembly No.	Pin, Yoke	Clamp, Yoke Cover	Cover, Yoke	Pin, Cotter, Yoke Pin
MCH-6113	MCL-54	MCL-56	MCL-57	X-406
MCH-6113A	MCL-58	MCL-59	MCL-60	None

UNIT	APPLICATION
MCH-6113, A	De Soto (8)

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File in
Equipment & Parts List Binder

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCH-6201 STARTING MOTOR PARTS LIST

MCH-6201
(Issued 5-1-51)

Frame & Field Assembly & Parts Used With			Miscellaneous Parts		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru	EBB-8	1	BENDIX DRIVE ASSEMBLY
(MCH-2035)	1	Frame & Field Assembly	EBA-1213	1	Spring, Anti-Drift
GK-38	4	Screw, Pole Shoe	EBA-1225	1	Spring, Meshing
MAB-31A	1	Washer, Ins., Term. Stud, Outer	EBA-1233	1	Ring, Retaining
MAB-85	1	Bushing, Ins., Term. Stud	EBA-2006	1	Pin, Locating
MCH-13†	2	Brush, Grounded	EBA-2007	2	Plate, Spring Anchor
MCH-34	1	Stud, Terminal, 5/16-18	EBA-2008	1	Ring, Lock
MCH-47	1	Equalizer	EBA-2031	1	Shaft
MCH-3005BS	1	FIELD COIL PACKAGE	EBA-2105	1	Spring, Drive
MCH-1009B	1	Coil, Field, Left	EBB-832	1	Pinion
MCH-1010B	1	Coil, Field, Right	MCH-1024	1	Band, Cover
MCJ-39B	1	Washer, Ins., Term. Stud, Inner	MCH-1051	1	BEARING ASSY., INTERMEDIATE
MN-21	2	Pin, Dowel	MCH-53	1	Bearing, Abs. Bronze
MU-37	1	Washer, Plain, Term. Stud	PS-1291	1	Housing Assy., Pinion
MZ-12 †	2	Brush	MG-77A	1	BEARING, ABS. BRONZE
12X-196	2	Lockwasher, Ground Sc., #10	12X-196	2	Lockwasher, Int. Brg. Sc., #10
8X-321	2	Screw, Ground, Rd. Hd. #10-32x5/16	8X-1368	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
12X-1014	1	Lockwasher, Term. Stud, 5/16			
8X-2988	1	Nut, Term. Stud, Hex. 5/16-18			
8X-164	1	Nut, Term. Stud, Hex. 5/16-18			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
12X-1014	1	Lockwasher, Term. Stud, 5/16			
<u>Comm. End Head Assembly & Parts Used With</u>					
MCH-2002F	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
<u>Armature Assembly & Parts Used With</u>					
MCH-2088	1	ARMATURE			
MU-54	*	Washer, Thrust, C.E., 1/32" Thick			
MU-54B	*	Washer, Thrust, C.E., 3/64" Thick			
MU-54L	*	Washer, Thrust, C.E., 1/16" Thick			
X-261	1	Key, Woodruff, #6			

† BRUSH SET, SERVICE MZ-2012BS.

* Use as required.

UNIT	APPLICATION
MCH-6201	Dodge, Plymouth

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File in
Equipment & Parts List Binder

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCH-6202 STARTING MOTOR PARTS LIST

MCH-6202
(Issued 1-3-52)

Frame & Field Assembly & Parts Used With			Miscellaneous Parts		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru	EBB-8	1	BENDIX DRIVE ASSEMBLY
(MCH-2035)	1	Frame & Field Assembly	EBA-1213	1	Spring, Anti-Drift
GK-38	4	Screw, Pole Shoe	EBA-1225	1	Spring, Meshing
MAB-31A	1	Washer, Ins., Term. Stud, Outer	EBA-1233	1	Ring, Retaining
MAB-85	1	Bushing, Ins., Term. Stud	EBA-2006	1	Pin, Locating
MCH-13 †	2	Brush, Grounded	EBA-2007	2	Plate, Spring Anchor
MCH-34A	1	Stud, Terminal, 5/16-18	EBA-2008	1	Ring, Lock
MCH-47	1	Equalizer	EBA-2031	1	Shaft
MCH-3005BS	1	FIELD COIL PACKAGE	EBA-2105	1	SPRING, DRIVE
MCH-1009B	1	Coil, Field, Left	EBB-832	1	Pinion
MCH-1010B	1	Coil, Field, Right	MCH-1024	1	Band, Cover
MCH-39B	1	Washer, Ins., Term. Stud, Inner	MCH-1051	1	BEARING ASSY., INTERMEDIATE
MN-21	2	Pin, Dowel	MCH-53	1	Bearing, Abs. Bronze
MU-37	1	Washer, Plain, Term. Stud	PS-1291A	1	Housing Assy., Pinion
MZ-12 †	2	Brush	MG-77A	1	BEARING, ABS. BRONZE
12X-196	2	Lockwasher, Ground Sc., #10	12X-196	2	Lockwasher, Int. Brg. Sc., #10
8X-321	2	Screw, Ground, Rd. Hd. #10-32x5/16	8X-1368	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
12X-1014	1	Lockwasher, Term. Stud, 5/16			
8X-2988	1	Nut, Term. Stud, Hex. 5/16-18			
8X-164	1	Nut, Term. Stud, Hex. 5/16-18			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
12X-1014	1	Lockwasher, Term. Stud, 5/16			
<u>Comm. End Head Assembly & Parts Used With</u>					
MCH-2002F	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
<u>Armature Assembly & Parts Used With</u>					
MCH-2088	1	ARMATURE			
MU-54	*	Washer, Thrust, C.E. & D.E., 1/32" Thick			
MU-54B	*	Washer, Thrust, C.E. & D.E., 3/64" Thick			
MU-54L	*	Washer, Thrust, C.E. & D.E., 1/16" Thick			
X-261	1	Key, Woodruff, D.E., #6			

† BRUSH SET, SERVICE MZ-2012BS.

* Use as required.

UNIT	APPLICATION
MCH-6202	Plymouth (Canada)

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File in
Equipment & Parts List Binder

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCH-6204 STARTING MOTOR PARTS LIST

MCH-6204
(Issued 3-18-52)

Frame & Field Assembly & Parts Used With			Miscellaneous Parts		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru	EBA-33	1	BENDIX DRIVE ASSEMBLY
MCH-2100	1	Frame & Field Assy.	EBA-1213	1	Spring, Anti-Drift
GK-38	4	Screw, Pole Shoe	EBA-1225	1	Spring, Meshing
MAB-31A	1	Washer, Ins., Term. Stud, Outer	EBA-1232	1	Pinion
MAB-85	1	Bushing, Ins., Term. Stud	EBA-1233	1	Ring, Retaining
MCH-13 †	2	Brush, Grounded	EBA-2006	1	Pin, Locating
MCH-34A	1	Stud, Terminal	EBA-2007	2	Plate, Spring Anchor
MCH-47	1	Equalizer	EBA-2008	1	Ring, Lock
MCH-3005BS	1	FIELD COIL PACKAGE	EBA-2031	1	Shaft
MCH-1009B	1	Coil, Field, Left	EBA-2105	1	SPRING, DRIVE
MCH-1010B	1	Coil, Field, Right	MCH-1024A	1	Band, Cover
MCJ-39B	1	Washer, Ins., Term. Stud, Inner	MCH-1051	1	BEARING ASSY., INTERMEDIATE
MN-21	2	Pin, Dowel	MCH-53	1	Bearing, Abs. Bronze
MU-37	1	Washer, Plain, Term. Stud	PS-1306	1	Housing Assy., Pinion
MZ-12 †	2	Brush	MG-77A	1	BEARING, ABS. BRONZE
12X-196	2	Lockwasher, Ground Sc., #10	12X-196	2	Lockwasher, Int. Brg. Sc., #10
8X-321	2	Screw, Ground, Rd. Hd. #10-32x5/16	8X-1368	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
12X-1014	1	Lockwasher, Term. Stud, 5/16			
8X-2988	1	Nut, Term. Stud, Hex. 5/16-18			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
<u>Comm. End Head Assembly & Parts Used With</u>					
MCH-2002F	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
<u>Armature Assembly & Parts Used With</u>					
MCH-2088	1	ARMATURE			
MU-54	*	Washer, Thrust, C.E. & Int., 1/32" Thick			
MU-54B	*	Washer, Thrust, C.E. & Int., 3/64" Thick			
X-261	1	Key, Woodruff, D.E., #6			

† BRUSH SET, SERVICE MZ-2012BS.

* Use as required.

UNIT	APPLICATION
MCH-6204	Hudson

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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."

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCH-6205 STARTING MOTOR PARTS LIST

MCH-6205
(Issued 1-3-52)

Frame & Field Assembly & Parts Used With			Miscellaneous Parts		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru	EBB-20	1	BENDIX DRIVE
(MCH-2035)	1	Frame & Field Assembly	MCH-1024	1	Band, Cover
GK-38	4	Screw, Pole Shoe	MCH-1051	1	BEARING ASSY., INTERMEDIATE
MAB-31A	1	Washer, Ins., Term. Stud, Outer	MCH-53	1	Bearing, Abs. Bronze
MAB-85	1	Bushing, Ins., Term. Stud	PS-1291	1	Housing Assy., Pinion
MCH-13 †	2	Brush, Grounded	MG-77A	1	BEARING, ABS. BRONZE
MCH-34A	1	Stud, Terminal	12X-196	2	Lockwasher, Int. Brg. Sc., #10
MCH-47	1	Equalizer	8X-1368	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
MCH-3005BS	1	FIELD COIL PACKAGE			
MCH-1009B	1	Coil, Field, Left			
MCH-1010B	1	Coil, Field, Right			
MCJ-39B	1	Washer, Ins., Term. Stud, Inner			
MN-21	2	Pin, Dowel			
MU-37	1	Washer, Plain, Term. Stud			
MZ-12 †	2	Brush			
12X-196	2	Lockwasher, Ground Sc., #10			
8X-321	2	Screw, Ground, Rd. Hd. #10-32x5/16			
12X-1014	1	Lockwasher, Term. Stud, 5/16			
8X-2988	1	Nut, Term. Stud, Hex. 5/16-18			
8X-164	1	Nut, Term. Stud, Hex. 5/16-18			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
12X-1014	1	Lockwasher, Term. Stud, 5/16			
<u>Comm. End Head Assembly & Parts Used With</u>					
MCH-2002F	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
<u>Armature Assembly & Parts Used With</u>					
MCH-2088	1	ARMATURE			
MU-54	*	Washer, Thrust, C.E. & Interm., 1/32" Thick			
MU-54B	*	Washer, Thrust, C.E. & Interm., 3/64" Thick			
MU-54L	*	Washer, Thrust, C.E. & Interm., 1/16" Thick			
X-261	1	Key, Woodruff, D.E., #6			

† BRUSH SET, SERVICE MZ-2012BS.

* Use as required.

UNIT	APPLICATION
MCH-6205	Plymouth

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCH-6206 STARTING MOTOR PARTS LIST

MCH-6206
(Issued 3-19-52)

Frame & Field Assembly & Parts Used With			Miscellaneous Parts		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru	EBB-20	1	BENDIX DRIVE
MCH-2035	1	Frame & Field Assembly	MCH-1024	1	Band, Cover
GK-38	4	Screw, Pole Shoe	MCH-1051	1	BEARING ASSY., INTERMEDIATE
MAB-31A	1	Washer, Ins., Term. Stud, Outer	MCH-53	1	Bearing, Abs. Bronze
MAB-85	1	Bushing, Ins., Term. Stud	PS-1291A	1	Housing Assy., Pinion
MCH-13†	2	Brush, Grounded	MG-77A	1	BEARING, ABS. BRONZE
MCH-34A	1	Stud, Terminal	12X-196	2	Lockwasher, Inter. Brg. Sc., #10
MCH-47	1	Equalizer	8X-1368	2	Screw, Inter. Bearing, Rd. Hd. #10-32x7/16
MCH-3005BS	1	FIELD COIL PACKAGE			
MCH-1009B	1	Coil, Field, Left			
MCH-1010B	1	Coil, Field, Right			
MCJ-39B	1	Washer, Ins., Term. Stud, Inner			
MN-21	2	Pin, Dowel			
MU-37	1	Washer, Plain, Term. Stud			
MZ-12†	2	Brush			
12X-196	2	Lockwasher, Ground Sc., #10			
8X-321	2	Screw, Ground, Rd. Hd. #10-32x5/16			
12X-1014	1	Lockwasher, Term. Stud, 5/16			
8X-2988	1	Nut, Term. Stud, Hex. 5/16-18			
8X-164	1	Nut, Term. Stud, Hex. 5/16-18			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
12X-1014	1	Lockwasher, Term. Stud, 5/16			
Comm. End Head Assembly & Parts Used With					
MCH-2002F	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
Armature Assembly & Parts Used With					
MCH-2088	1	ARMATURE			
MU-54	*	Washer, Thrust, C. E. & Interm., 1/32" Thick			
MU-54B	*	Washer, Thrust, C. E. & Interm., 3/64" Thick			
MU-54L	*	Washer, Thrust, C. E. & Interm., 1/16" Thick			
X-261	1	Key, Woodruff, D. E., #6			

† BRUSH SET, SERVICE MZ-2012BS.

* Use as required.

UNIT	APPLICATION
MCH-6206	Plymouth (Canada)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCH-6207 STARTING MOTOR PARTS LIST

MCH-6207
(Issued 10-17-52)

Frame & Field Assembly & Parts Used With			Miscellaneous Part		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru	EBB-19	1	BENDIX DRIVE
MCH-2113	1	Frame & Field Assy.	MCH-1024A	1	Band, Cover
GK-38	4	Screw, Pole Shoe	MCH-1051	1	BEARING ASSY., INTERMEDIATE
MAB-31A	1	Washer, Ins., Term. Stud, Outer	MCH-53	1	Bearing, Abs. Bronze
MAB-85	1	Bushing, Ins., Term. Stud	PS-1311	1	Housing Assy., Pinion
MCH-13 †	2	Brush, Grounded	MG-77A	1	BEARING, ABS. BRONZE
MCH-34A	1	Stud, Terminal	12X-196	2	Lockwasher, Int. Brg. Sc., #10
MCH-47	1	Equalizer	8X-1368	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
MCH-3005BS	1	FIELD COIL PACKAGE			
MCH-1009B	1	Coil, Field, Left			
MCH-1010B	1	Coil, Field, Right			
MCJ-39B	1	Washer, Ins., Term. Stud, Inner			
MN-21	2	Pin, Dowel			
MU-37	1	Washer, Plain, Term. Stud			
MZ-12†	2	Brush			
12X-196	2	Lockwasher, Br. Ground Sc., #10			
8X-321	2	Screw, Br. Ground, Rd. Hd. #10-32x5/16			
12X-1014	1	Lockwasher, Term. Stud, 5/16			
8X-2988	1	Nut, Term. Stud, Hex. 5/16-18			
8X-164	1	Nut, Term. Stud, Hex. 5/16-18			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
12X-1014	1	Lockwasher, Term. Stud, 5/16			
<u>Comm. End Head Assembly & Parts Used With</u>					
MCH-2104	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
<u>Armature Assembly & Parts Used With</u>					
MCH-2088	1	ARMATURE			
MU-54	*	Washer, Thrust, C. E., 1/32" Thick			
MU-54B	*	Washer, Thrust, C. E., 3/64" Thick			
MU-54L	*	Washer, Thrust, C. E., 1/16" Thick			
X-261	1	Key, Woodruff, D. E., #6			

† BRUSH SET, SERVICE MZ-2012BS.

* Use as required.

UNIT	APPLICATION
MCH-6207	Willys

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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

MCH-6208M STARTING MOTOR PARTS LIST

MCH-6208M
(Issued 2-5-54)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GJ-20A	2	Bolt, Thru
MCH-3114S	1	Frame & Field Assy.
GK-38C	4	Screw, Pole Shoe
MAB-31A	1	Washer, Ins. , Term. Stud, Outer
MAB-85	1	Bushing, Ins. , Term. Stud
MCH-13†	2	Brush, Grounded
MCH-34	1	Stud, Terminal
MCH-66	1	Equalizer
MCH-2009S	1	COIL, FIELD, LEFT
MCH-2010S	1	COIL, FIELD, RIGHT
MCJ-39A	1	Washer, Ins. , Term. Stud, Inner
MN-21A	2	Pin, Dowel
MU-37G	1	Washer, Plain, Term. Stud, 5/16
MZ-12†	2	Brush
X-20	2	Screw, Ground, Rd. Hd. #10-32x5/16
12X-196	2	Lockwasher, Br. Ground Screw, #10
12X-1014	2	Lockwasher, Term. Stud, 5/16
X-2976	2	Nut, Term. Stud, Hex. 5/16-18
12X-199	2	Lockwasher, Thru Bolt, 1/4

Comm. End Head Assembly & Parts Used With

MCH-3030B	1	Head Assy. , Comm. End
MAD-110	1	Felt
MZ-19A	4	Spring, Brush

Armature Assembly & Parts Used With

MCH-2088M	1	ARMATURE ASSY.
MU-54F	1	Washer, Thrust, Int. , 1/32" Thick
MU-54F	*	Washer, Thrust, C. E. , 1/32" Thick
MU-54J	*	Washer, Thrust, C. E. , .046" Thick
MU-54N	*	Washer, Thrust, C. E. , 1/16" Thick
X-261	1	Key, Woodruff, D. E. , #6

Switch Assembly & Parts Used With

Part No.	No. Used	Name of Part
MAX-89R	1	Connector
SSP-4001M	1	SOLENOID STARTING SWITCH
12X-196	1	Lockwasher, #10
12X-1014	2	Lockwasher, 5/16
X-2843	2	Nut, Hex. 5/16-24
X-2853	1	Nut, Hex. #10-32
X-20	2	Screw, Switch Mtg. , Rd. Hd. #10-32x5/16
X-1270	2	Washer, Switch Mtg. Sc. , Skpf. #10

Miscellaneous Parts

EBB-32A	1	BENDIX DRIVE
MAB-1024NS	1	Band, Cover
MCH-1051A	1	BEARING ASSY. , INTERMEDIATE
MCH-53	1	Bearing, Abs. Bronze
PS-1291C	1	Housing Assy. , Pinion
MG-77A	1	BEARING, ABS. BRONZE
12X-196	2	Lockwasher, Int. Bearing Sc. , #10
X-2875	1	Nut, Cover Band, Square #10-32
X-2881	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
X-2882	1	Screw, Cover Band, Fill. Hd. #10-32x1 1/2

† BRUSH SET, SERVICE MZ-2012BS.

* Use as Required.

UNIT	APPLICATION
MCH-6208M	Chrysler Marine

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File in
Equipment & Parts List Binder

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCH-6209M STARTING MOTOR PARTS LIST

MCH-6209M

(Issued 10-29-53)

Frame & Field Assembly & Parts Used With			Switch Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20A	2	Bolt, Thru	MAX-89R	1	Connector
MCH-2114S	1	Frame & Field Assembly	SSP-4001M	1	SOLENOID STARTING SWITCH
GK-38C	4	Screw, Pole Shoe	12X-196	1	Lockwasher, #10
MAB-31A	1	Washer, Ins., Term. Stud Outer	12X-1014	2	Lockwasher, 5/16
MAB-85A	1	Bushing, Ins., Term. Stud	X-2843	2	Nut, Hex. 5/16-24
MCH-13†	2	Brush, Grounded	X-2853	1	Nut, Hex. #10-32
MCH-34	1	Stud, Terminal	X-20	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
MCH-47	1	Equalizer	X-1270	2	Washer, Switch Mtg. Screw, Skpf. #10
MCH-1009GS	1	COIL, FIELD, LEFT			
MCH-1010GS	1	COIL, FIELD, RIGHT			
MCJ-39A	1	Washer, Ins., Term. Stud, Inner			
MN-21A	2	Pin, Dowel			
MU-37G	1	Washer, Plain, Term. Stud, 5/16			
MZ-12†	2	Brush			
X-20	2	Screw, Brush Ground, Rd. Hd. #10-32x5/16			
12X-196	2	Lockwasher, Brush Ground Screw, #10			
12X-1014	2	Lockwasher, Term. Stud, 5/16			
X-2976	2	Nut, Term. Stud, Hex. 5/16-18			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
Comm. End Head Assembly & Parts Used With			Miscellaneous Parts		
MCH-2002J	1	Head Assy., Comm. End	EBB-26A	1	BENDIX DRIVE
MAD-110	1	Felt	MAB-1024NS	1	Band, Cover
MZ-19A	4	Spring, Brush	MCH-1051A	1	BEARING ASSEMBLY, INTERMEDIATE
Armature Assembly & Parts Used With			MCH-53	1	Bearing, Abs. Bronze
MCH-2088M	1	ARMATURE ASSEMBLY	PS-1291C	1	Housing Assy., Pinion
MU-54F	*	Washer, Thrust, C. E., 1/32" Thick	MG-77A	1	BEARING, ABS. BRONZE
MU-54G	*	Washer, Thrust, C. E., 1/64" Thick	12X-196	2	Lockwasher, Intermediate Bearing Screw, #10
MU-54J	*	Washer, Thrust, C. E., .046" Thick	X-2875	1	Nut, Cover Band, Square #10-32
MU-54N	1	Washer, Thrust, Intermediate 1/16" Thick	X-2881	2	Screw, Intermediate Bearing, Rd. Hd. #10-32x7/16
X-261	1	Key, Woodruff, D. E., #6	X-2882	1	Screw, Cover Band, Fill. Hd. #10-32x1 1/2

† BRUSH SET, SERVICE MZ-2012BS

* Use as required.

UNIT	APPLICATION
MCH-6209M	Chrysler Marine

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File in
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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCH-6210 STARTING MOTOR PARTS LIST

MCH-6210
(Issued 12-24-53)

Frame & Field Assembly & Parts Used With			Miscellaneous Parts		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru	EBB-19	1	BENDIX DRIVE
MCH-2035	1	Frame & Field Assy.	MCH-1024	1	Band, Cover
GK-38	4	Screw, Pole Shoe	MCH-1051	1	BEARING ASSY. , INTERMEDIATE
MAB-31A	1	Washer, Ins. , Term. Stud, Outer	MCH-53	1	Bearing, Abs. Bronze
MAB-85	1	Bushing, Ins. , Term. Stud	PS-1291	1	Housing Assy. , Pinion
MCH-13†	2	Brush	MG-77A	1	BEARING, ABS. BRONZE
MCH-34A	1	Stud, Terminal	12X-196	2	Lockwasher, Int. Brg. Sc. , #10
MCH-47	1	Equalizer	8X-1368	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
MCH-3005BS	1	FIELD COIL PACKAGE			
MCH-1009B	1	Coil, Field, Left			
MCH-1010B	1	Coil, Field, Right			
MCJ-39B	1	Washer, Ins. , Term. Stud, Inner			
MN-21	2	Pin, Dowel			
MU-37	1	Washer, Plain, Term. Stud			
MZ-12 †	2	Brush			
12X-196	2	Lockwasher, Ground Sc. , #10			
8X-321	2	Screw, Br. Ground, Rd. Hd. #10-32x5/16			
12X-1014	1	Lockwasher, Term. Stud, 5/16			
8X-2988	1	Nut, Term. Stud, Hex. 5/16-18			
8X-164	1	Nut, Term. Stud, Hex. 5/16-18			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
12X-1014	1	Lockwasher, Term. Stud, 5/16			
Comm. End Head Assembly & Parts Used With					
MCH-2002F	1	Head Assy. , Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
Armature Assembly & Parts Used With					
MCH-2088	1	ARMATURE			
MU-54	*	Washer, Thrust, C. E. , 1/32'' Thick			
MU-54B	*	Washer, Thrust, C. E. , 3/64'' Thick			
MU-54K	*	Washer, Thrust, C. E. , .080'' Thick			
MU-54L	*	Washer, Thrust, C. E. , 1/16'' Thick			
MU-54L	1	Washer, Thrust, Int. , 1/16'' Thick			
X-261	1	Key, Woodruff, D. E. , #6			

* Use as Required.

† BRUSH SET, SERVICE MZ-2012BS.

UNIT	APPLICATION
MCH-6210	Willys

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File in
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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCH-6211 STARTING MOTOR PARTS LIST

MCH-6211
(Issued 12-24-53)

<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
GJ-20	2	Bolt, Thru	EBB-19	1	BENDIX DRIVE
MCH-2035	1	Frame & Field Assembly	MCH-1024	1	Band, Cover
GK-38	4	Screw, Pole Shoe	MCH-1051	1	BEARING ASSY. , INTERMEDIATE
MAB-31A	1	Washer, Ins. , Term. Stud, Outer	MCH-53	1	Bearing, Abs. Bronze
MAB-85	1	Bushing, Ins. , Term. Stud	PS-1323	1	Housing Assy. , Pinion
MCH-13†	2	Brush	MG-77A	1	BEARING, ABS. BRONZE
MCH-34A	1	Stud, Terminal	12X-196	2	Lockwasher, Int. Brg. Sc. , #10
MCH-47	1	Equalizer	8X-1368	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
MCH-3005BS	1	FIELD COIL PACKAGE			
MCH-1009B	1	Coil, Field, Left			
MCH-1010B	1	Coil, Field, Right			
MCJ-39B	1	Washer, Ins. , Term. Stud, Inner			
MN-21	2	Pin, Dowel			
MU-37	1	Washer, Plain, Term. Stud			
MZ-12 †	2	Brush			
12X-196	2	Lockwasher, Ground Sc. , #10			
8X-321	2	Screw, Br. Ground, Rd. Hd. #10-32x5/16			
12X-1014	1	Lockwasher, Term. Stud, 5/16			
8X-2988	1	Nut, Term. Stud, Hex. 5/16-18			
8X-164	1	Nut, Term. Stud, Hex. 5/16-18			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
12X-1014	1	Lockwasher, Term. Stud, 5/16			
<u>Comm. End Head Assembly & Parts Used With</u>					
MCH-2002F	1	Head Assy. , Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
<u>Armature Assembly & Parts Used With</u>					
MCH-2088	1	ARMATURE			
MU-54	*	Washer, Thrust, C. E. , 1/32" Thick			
MU-54B	*	Washer, Thrust, C. E. , 3/64" Thick			
MU-54K	*	Washer, Thrust, C. E. , .080" Thick			
MU-54L	*	Washer, Thrust, C. E. , 1/16" Thick			
MU-54L	1	Washer, Thrust, Int. , 1/16" Thick			
X-261	1	Key, Woodruff, D. E. , #6			

* Use as Required.

† BRUSH SET, SERVICE MZ-2012BS.

UNIT	APPLICATION
MCH-6211	Willys

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCH-6213 STARTING MOTOR PARTS LIST

MCH-6213
(Issued 1-16-56)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru
MCH-2114A	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAB-31A	1	Washer, Ins., Term. Stud, Outer
MAB-85	1	Bushing, Ins., Term. Stud
MCH-34A	1	Stud, Terminal
MCH-47	1	Equalizer
MCH-3005BS	1	FIELD COIL PACKAGE
MCH-1009B	1	Coil, Field, Left
MCH-1010B	1	Coil, Field, Right
MCJ-39B	1	Washer, Ins., Term. Stud, Inner
MN-21	2	Pin, Dowel
MU-37	1	Washer, Plain, Term. Stud
MZ-2012BS	1	BRUSH SET
8X-321	2	Screw, Br. Ground Rd. Hd. #10-32x5/16
12X-1014	1	Lockwasher, Term. Stud, 5/16
X-1270	2	Washer, Br. Ground Sc., Skpf. #10
8X-2988	1	Nut, Term. Stud, Hex. 5/16-18
8X-164	1	Nut, Term. Stud, Hex. 5/16-18
12X-199	2	Lockwasher, Thru Bolt, 1/4
12X-1014	1	Lockwasher, Term. Stud, 5/16

Comm. End Head Assembly & Parts Used With

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

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part
MCH-2088	1	ARMATURE
MU-54	1	Washer, Thrust, Int., 1/32" Thick
MU-54	*	Washer, Thrust, C. E., 1/32" Thick
MU-54B	*	Washer, Thrust, C. E., 3/64" Thick
MU-54K	*	Washer, Thrust C. E., .080" Thick
MU-54L	*	Washer, Thrust, C. E., 1/16" Thick
X-261	1	Key, Woodruff, D. E., #6

Switch Assembly & Parts Used With

MAX-89L	1	Connector
SST-4004	1	SOLENOID STARTING 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-312	2	Screw, Switch Mtg., Rd. Hd. #10-32x1/4
X-1270	2	Washer, Switch Mtg. Sc., Skpf. #10

Miscellaneous Parts

EBB-26	1	BENDIX DRIVE
MCH-1024	1	Band, Cover
MCH-1051	1	BEARING ASSY., INTERMEDIATE
PS-1291J	1	Housing Assy., Pinion
MG-77A	1	BEARING, ABS. BRONZE
12X-196	2	Lockwasher, Int. Brg. Sc., #10
8X-1368	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16

* Use as required.

UNIT	APPLICATION
MCH-6213	Checker Cab

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCH-6305 STARTING MOTOR PARTS LIST

MCH-6305
(Issued 10-18-54)

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
GJ-20	2	Bolt, Thru	MCH-2088	1	ARMATURE
MCH-2035B	1	Frame & Field Assembly	MU-54	1	Washer, Thrust, Int., 1/32" Thick
GK-38	4	Screw, Pole Shoe	MU-54	*	Washer, Thrust, C. E., 1/32" Thick
MAB-31A	1	Washer, Ins., Term. Stud, Outer	MU-54B	*	Washer, Thrust, C. E., 3/64" Thick
MAB-85	1	Bushing, Ins., Term. Stud	MU-54K	*	Washer, Thrust, C. E., .080" Thick
MCH-13 †	2	Brush, Grounded	MU-54L	*	Washer, Thrust, C. E., 1/16" Thick
MCH-34A	1	Stud, Terminal	X-261	1	Key, Woodruff, D. E., #6
MCH-47	1	Equalizer			
MCH-3005BS	1	FIELD COIL PACKAGE			
MCJ-39B	1	Washer, Ins., Term. Stud, Inner			
MN-21	2	Pin, Dowel			
MU-37	1	Washer, Plain, Term. Stud			
MZ-12 †	2	Brush			
12X-196	2	Lockwasher, Br. Ground Screw, #10			
8X-321	2	Screw, Br. Ground, Rd. Hd. #10-32x5/16			
12X-1014	1	Lockwasher, Term. Stud, 5/16			
8X-2988	1	Nut, Term. Stud, Hex. 5/16-18			
8X-164	1	Nut, Term. Stud, Hex. 5/16-18			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
12X-1014	1	Lockwasher, Term. Stud, 5/16			
Comm. End Head Assembly & Parts Used With			Miscellaneous Parts		
MCH-2002F	1	Head Assy., Comm End	EBB-20	1	BENDIX DRIVE
MAD-110	1	Felt	MCH-1024	1	Band, Cover
MZ-19	4	Spring, Brush	MCH-1051	1	BEARING ASSEMBLY, INTERMEDIATE
			PS-1291E	1	Housing Assy., Pinion
			MG-77A	1	BEARING, ABSORBENT BRONZE
			12X-196	2	Lockwasher, Int. Brg. Screw, #10
			8X-1368	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16

* Use as required.

† BRUSH SET, SERVICE MZ-2012BS.

UNIT	APPLICATION
MCH-6305	Dodge (6 & 8), Plymouth (6 & 8)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCH-6306 STARTING MOTOR PARTS LIST

MCH-6306
(Issued 11-16-54)

Frame & Field Assembly & Parts Used With			Miscellaneous Parts		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru	EBA-33	1	BENDIX DRIVE
MCH-2100A	1	Frame & Field Assembly	EBA-1213	1	Spring, Anti-Drift
GK-38	4	Screw, Pole Shoe	EBA-1225	1	Spring, Meshing
MAB-31A	1	Washer, Ins., Term. Stud, Outer	EBA-1232	1	Pinion
MAB-85	1	Bushing, Ins., Term. Stud	EBA-1233	1	Ring, Retaining
MCH-13 †	2	Brush, Grounded	EBA-2006	1	Pin, Locating
MCH-34A	1	Stud, Terminal	EBA-2008	1	Ring, Lock
MCH-3005BS	1	FIELD COIL PACKAGE	EBA-2031	1	Shaft
MCJ-39B	1	Washer, Ins., Term. Stud, Inner	EBA-2105	1	SPRING: DRIVE
MN-21	2	Pin, Dowel	EBA-3307	2	Plate, Spring Anchor
MU-37	1	Washer, Plain, Term. Stud	MCH-1024	1	Band, Cover
8X-321	2	Screw, Br. Ground, Rd. Hd. #10-32x5/16	MCH-1051	1	BEARING ASSY., INTERMEDIATE
12X-1014	1	Lockwasher, Term. Stud, 5/16	PS-1326A	1	Housing Assy., Pinion
X-1270	2	Washer, Br. Ground Screw, Skpf. #10	MG-77A	1	BEARING ABSORBENT BRONZE
8X-2988	1	Nut, Term. Stud, Hex. 5/16-18	12X-196	2	Lockwasher, Int. Brg. Screw, #10
8X-164	1	Nut, Term. Stud, Hex. 5/16-18	8X-1368	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
12X-199	2	Lockwasher, Thru Bolt, 1/4			
12X-1014	1	Lockwasher, Term. Stud, 5/16			
Comm. End Head Assembly & Parts Used With					
MCH-2002F	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
Armature Assembly & Parts Used With					
MCH-2088	1	ARMATURE			
MU-54	1	Washer, Thrust, Int., 1/32" Thick			
MU-54	*	Washer, Thrust, C. E., 1/32" Thick			
MU-54B	*	Washer, Thrust, C. E., 3/64" Thick			
MU-54K	*	Washer, Thrust, C. E., .080" Thick			
MU-54L	*	Washer, Thrust, C. E., 1/16" Thick			
X-261	1	Key, Woodruff, D. E., #6			

† BRUSH SET, SERVICE MZ-2012BS

* Use as required.

UNIT	APPLICATION
MCH-6306	Hudson

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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 such parts the complete part can be assembled as needed."



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCJ-4001 STARTING MOTOR PARTS LIST

MCJ-4001

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
(MCJ-3001)	1	Frame & Field Assy.					MCJ-2020	1	Armature				
GK-38	4	Screw, Pole Shoe					MAB-35	1	Spacer, Bearing Thrust				
MAB-30C	1	Insulation, Field Connection					MU-54	*	Washer, Thrust 1/32" thick				
MAB-31	1	Washer, Ins., Term. Stud Outer					MU-54A	*	Washer, Thrust 1/64" thick				
MAB-85	1	Bushing, Ins., Term. Stud					MU-54B	*	Washer, Thrust 3/64" thick				
MAX-64	2	Connector, Field Coil					X-261	1	Key, Woodruff, #6				
MAX-67	1	Insulation, Field Conn. D.E.					Miscellaneous Parts						
MAY-33	1	Connector					EBA-44A	1	Bendix Drive Assembly				
MAY-1008A	1	Coil, Field, L.R.					MAB-2040	1	Bearing Assy., Intermediate				
MAY-1009A	1	Coil, Field, L.L.					MG-77A	1	Bearing, Absorbent Bronze				
MAY-1010	1	Coil, Field, U.R.					MAW-24	1	Band, Cover				
MCJ-12†	1	Brush					PS-1273	1	Housing Assy., Pinion				
MCJ-12A†	1	Brush					MAB-88	1	Pin, Dowel				
MCJ-14	1	Terminal					MG-77A	1	Bearing, Absorbent Bronze				
MCJ-39	1	Washer, Ins., Term. Stud Inner					8X-715	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/4				
MCJ-1007	1	Coil, Field, U.L.					8X-794	1	Nut, Cover Band Square #10-32 1 2 3 4 5				
MN-21	2	Pin, Dowel											
MU-28	1	Stud, Terminal											
MU-37	1	Washer, Plain Term. Stud 5/16											
12X-1014	2	Lockwasher, Term. Stud, 5/16											
8X-1376	2	Nut, Term. Stud											
MW-20A	2	Bolt, Thru											
12X-199	2	Lockwasher, Thru Bolt, 1/4											
Comm. End Head Assembly & Parts Used With													
MCJ-3002	1	Head Assy., Comm. End											
MAD-110	1	Felt											
MCJ-1034†	2	Brush, Grounded											
MZ-16	4	Brush, Holder											
MZ-19	4	Brush, Spring											
8X-532	4	Rivet											
		1	2	3	4	5							

† Brush Set, Service MCJ-2012S.

* Use as required.

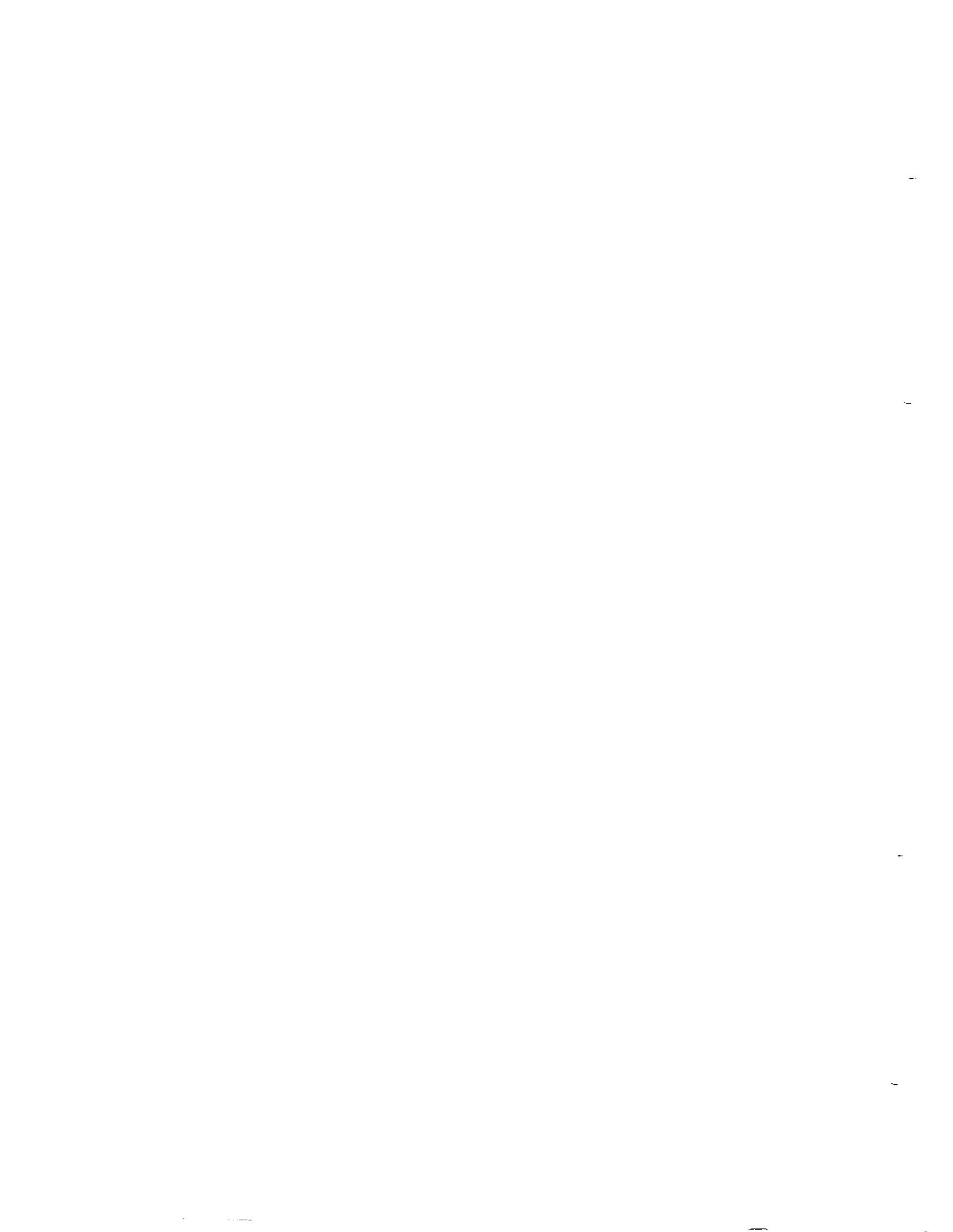
Unit	Application
MCJ-4001	Aircooled

(Issued 9-16-46)

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Equipment & Parts List Binder

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCJ-6001M STARTING MOTOR PARTS LIST

MCJ-6001M

Frame & Field Assembly With Terminal Stud & Parts Used With					Miscellaneous Parts										
Part No.	No.	Name of Part					Part No.	No.	Name of Part						
		Used	1	2	3	4	5			Used	1	2	3	4	5
GJ-20A	2	Bolt, Thru						EBA-45A	1	BENDIX DRIVE ASSY.					
(MCJ-2031A)	1	Frame & Field Assy.						EBA-1232A	1	Pinion					
GK-38C	4	Screw, Pole Shoe						EBA-4505	1	SPRING, DRIVE					
MAB-30C	1	Insulation, Field Connection						EBA-4808	1	Ring, Lock					
MAB-31A	1	Washer, Ins., Term. Stud, Outer						EBA-4833	1	Ring, Retaining					
MAB-85A	1	Bushing, Ins., Term. Stud						EBA-7213	1	Spring, Anti-Drift					
MAX-64	2	Connector, Field, Coil						EBA-7225	1	Spring, Meshing					
MAX-67	1	Insulation, Field Connection, D.E.						EBA-7906	1	Pin, Locating					
MAY-33	1	Connector, Brush						EBA-7907	2	Plate, Spring Anchor					
MAY-1008B	1	Coil, Field, L.R.						EBA-7931	1	Shaft					
MAY-1009B	1	Coil, Field, L.L.						MAB-1024N	1	Band, Cover					
MAY-1010H	1	Coil, Field, U.R.						MCH-1040B	1	BEARING ASSY., INTERMEDIATE					
MCJ-12†	2	Brush						MAW-130	1	Bearing, Absorbent Bronze					
MCJ-14	1	Terminal						PS-1283B	1	Housing Assy., Pinion					
MCJ-39A	1	Washer, Ins., Term. Stud, Inner						MG-77A	1	BEARING, ABSORBENT BRONZE					
MCJ-1007B	1	Coil, Field, U.L.						12X-196	2	Lockwasher, Int. Bearing Sc., #10					
MN-21A	2	Pin, Dowel						X-2873	1	Screw, Cover Band, Rd. Hd., #10-32x1 1/4					
MU-28	1	Stud, Terminal, 5/16-24						X-2875	1	Nut, Cover Band, Square, #10-32					
MU-37G	1	Washer, Plain, Term. Stud						X-2881	2	Screw, Int. Bearing, Rd. Hd., #10-32x7/16					
X-180	2	Nut, Term. Stud, Hex., 5/16-24									1	2	3	4	5
12X-1014	2	Lockwasher, Term. Stud, 5/16													
12X-199	2	Lockwasher, Thru Bolt, 1/4													
Comm. End Head Assembly & Parts Used With					†MCJ-2012BS Brush Set, Service										
MCJ-2030A	1	Head Assy., Comm. End						* Use as required.							
MAD-110	1	Felt													
MZ-19A	4	Spring, Brush													
MZ-1034S†	2	Brush, Grounded													
Armature Assembly & Parts Used With															
MCJ-2021M	1	ARMATURE													
MU-54F	*	Washer, Arm. Thrust, C.E., 1/32" thick													
MU-54G	*	Washer, Arm. Thrust, C.E., 1/64" thick													
MU-54J	*	Washer, Arm. Thrust, C.E., .046" thick													
X-261	1	Key, Woodruff, #6													
Switch Assembly & Parts Used With															
MAX-89R	1	Connector													
SSR-4001M	1	SWITCH, SOLENOID													
12X-196	1	Lockwasher, #10													
12X-1014	2	Lockwasher, 5/16													
8X-2843	2	Nut, Hex., 5/16-24													
8X-2853	1	Nut, Hex., #10-32													
X-20	2	Screw, Switch Mtg., Rd. Hd., #10-32x5/16													
X-1270	2	Washer, Switch Mtg., Skpf., #10													
			1	2	3	4	5								

UNIT	APPLICATION
MCJ-6001M	Packard (Marine)

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(Issued 10-23-47)

File in
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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCJ-6002M STARTING MOTOR PARTS LIST

MCJ-6002M

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	
GJ-20A	2	Bolt, Thru					MAX-89R	1	Connector					
(MCJ-3031A)	1	Frame & Field Assy.					SSR-4001M	1	SWITCH, SOLENOID					
GK-38C	4	Screw, Pole Shoe					12X-196	1	Lockwasher, #10					
MAB-30C	1	Insulation, Field Connection					12X-1014	2	Lockwasher, 5/16					
MAB-31A	1	Washer, Ins., Term. Stud, Outer					8X-2843	2	Nut, Hex., 5/16-24					
MAB-85A	1	Bushing, Ins., Term. Stud					8X-2853	1	Nut, Hex., #10-32					
MAX-64	2	Connector, Field Coil					X-20	2	Screw, Switch Mtg., Rd. Hd., #10-32x5/16					
MAX-67	1	Insulation, Field Connection, D.E.					X-1270	2	Washer, Switch Mtg., Skpf., #10					
MAY-33	1	Connector, Brush					<u>Miscellaneous Parts</u>							
MAY-1008B	1	Coil, Field, L.R.					EBA-44A	1	BENDIX DRIVE ASSY.					
MAY-1009B	1	Coil, Field, L.L.					EBA-4405A	1	SPRING, DRIVE					
MAY-1010H	1	Coil, Field, U.R.					EBA-4431A	1	Shaft					
MCJ-12†	1	Brush					EBA-4807	2	Plate, Spring Anchor					
MCJ-12A†	1	Brush					EBA-4808	1	Ring, Lock					
MCJ-14	1	Terminal					EBA-4813	1	Spring, Anti-Drift					
MCJ-39A	1	Washer, Ins., Term. Stud, Inner					EBA-4825	1	Spring, Meshing					
MCJ-1007B	1	Coil, Field, U.L.					EBA-4832	1	Pinion					
MN-21A	2	Pin, Dowel					EBA-4833	1	Ring, Retaining					
MU-28	1	Stud, Terminal, 5/16-24					EBA-7906	1	Screw, Head					
MU-37G	1	Washer, Plain, Term. Stud					MAB-1024N	1	Band, Cover					
X-180	2	Nut, Term. Stud, Hex., 5/16-24					MCH-1040B	1	BEARING ASSY., INTERMEDIATE					
12X-1014	2	Lockwasher, Term. Stud, 5/16					MAY-130	1	Bearing, Absorbent Bronze					
12X-199	2	Lockwasher, Thru Bolt, 1/4					PS-1283B	1	Housing Assy., Pinion					
<u>Comm. End Head Assembly & Parts Used With</u>					<u>Switch Assembly & Parts Used With</u>									
MCJ-3002A	1	Head Assy., C.E.					MG-77A	1	BEARING, ABSORBENT BRONZE					
MAD-110	1	Felt					12X-196	2	Lockwasher, Int. Bearing Sc.#10					
MZ-19A	4	Spring, Brush					X-2873	1	Screw, Cover Band, Rd. Hd., #10-32x1 1/4					
MZ-1034S†	2	Brush, Grounded					X-2875	1	Nut, Cover Band, Square, #10-32					
<u>Armature Assembly & Parts Used With</u>					<u>Switch Assembly & Parts Used With</u>									
MCJ-2021M	1	ARMATURE					X-2881	2	Screw, Int. Bearing, Rd. Hd., #10-32x7/16					
MU-54F	*	Washer, Arm. Thrust, C.E., 1/32" thick						1	2	3	4	5		
MU-54G	*	Washer, Arm. Thrust, C.E., 1/64" thick					† MCJ-2012AS BRUSH SET, SERVICE.							
MU-54J	*	Washer, Arm. Thrust, C.E., .046" thick					* Use as required.							
X-261	1	Key, Woodruff, #6												
			1	2	3	4	5							

UNIT	APPLICATION
MCJ-6002M	Packard (Marine)

(Issued 10-23-47)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCK-4001 STARTING MOTOR PARTS LIST

MCK-4001
(Issued 10-15-56)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
MCK-2001	1	Frame & Field Assembly
GK-38	4	Screw, Pole Shoe
MAW-37	1	Bushing, Ins, Term. Stud
MAX-44	1	Washer, Plain, Term. Stud, Outer
MBD-119	2	Washer, Ins., Term. Stud
MBD-231	1	Connector, Term. Stud
MBD-233A	1	Stud, Terminal
MBR-34	1	Connector
MBR-1012S	1	BRUSH SET
MC-51A	1	Washer, Plain, Term. Stud, Inner
MCK-32	2	Insulation, Field Connection
MCK-3005S	1	FIELD COIL PACKAGE
MCK-1007	1	Coil, Field, U. L.
MCK-1008	1	Coil, Field, L. R.
MCK-1009	1	Coil, Field, U. R.
MCK-1010	1	Coil, Field, L. L.
8X-66	4	Screw, BR. Grd., Flat Hd. #10-32x1/2
12X-201	1	Lockwasher, Term. Stud, 3/8
8X-830	1	Nut, Term. Stud, Hex. 3/8 - 16
8X-148	1	Nut, Term. Stud, Hex. 3/8 - 16
12X-201	1	Lockwasher, Term. Stud, 3/8

Comm. End Head Assembly & Parts With

GAL-40A	1	Cover, Bearing, Comm. End
MAD-110	1	Felt
MBD-258	12	Screw, C. E. Head, Fill. Hd. #10-32x5/8
MBR-2410	1	Head Assy., Comm. End.
MBD-150	1	Wick, Felt
MBD-1410	1	Head Assy., Partial, Comm. End
GBF-79	1	BEARING
MBR-2079	1	Plate Assy., Brush
GG-81	4	Clip, Brush Holder Post
MBD-19	8	Spring, Brush
MBD-47	4	Spacer, Spring, Brush
8X-120	4	Screw, Brush Plate, Fill. Hd. #10-32x5/8
12X-196	4	Lockwasher, Brush Plate Screw, #10
X-2964A	1	Oiler
12X-196	12	Lockwasher, C. E. Head Screw, #10

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part
MAK-61	1	Washer, Thrust, C. E.
MBD-311	*	Washer, Thrust, Int.
MCK-2006	1	ARMATURE
MU-54	1	Washer, Thrust, C. E., 1/32" Thick
X-261C	2	Key, Woodruff, D. E., #6

Miscellaneous Parts

EBB-11	1	Bendix Drive Assy.
EBA-5716	1	Screw, Pinion Back Stop
EBB-1104	1	Pinion
EBB-1113	1	Spring, Anti-Drift
EBB-1115A	1	Stop, Pinion Back
EBB-1125	1	Spring, Meshing
EBB-1131	1	Shaft, Screw
EBB-1140	1	Screw, Head
EBB-1141	1	Pin, Lock, Head Screw
EBB-1142	1	Pin, Stop Nut
EBB-3011S	1	Spring Kit, Anti-Drift
EBB-3013S	1	Pinion Kit
EBB-3014S	1	Clutch Assembly Kit
MBD-254	8	Screw, Pinion Housing, Hex. Hd. #10-32x7/8
MBD-1315	1	Bearing Assy., Intermediate
MBD-312	1	Retainer, Felt, Washer
MBD-313	1	Felt, Washer
MBD-314	1	BEARING: ABSORBENT BRONZE
MCK-1024	1	Band, Cover
PS-1278	1	Housing Assy., Pinion
MAB-88	1	Pin, Dowel
MBD-257	1	BEARING, ABSORBENT BRONZE
12X-196	8	Lockwasher, Housing Screw, #10
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
MCK-4001	Continental, Massey-Harris

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCK-4002 STARTING MOTOR PARTS LIST

MCK-4002

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
(MCK-2001)	1	Frame & Field Assy.	MAK-61	1	Washer, Thrust, Comm. End
GK-38	4	Screw, Pole Shoe	MBD-247A	1	Washer, Thrust, Intermediate
MAW-37	1	Bushing, Ins., Term. Stud	MBD-311	2	Washer, Thrust, Intermediate
MAX-44	1	Washer, Plain, Term. Stud, Outer	MCK-2045	1	ARMATURE
MBD-119	2	Washer, Ins., Term. Stud	MU-54	*	Washer, Thrust, C.E., 1/32'' Thick
MBD-231	1	Connector, Term. Stud	MU-54A	*	Washer, Thrust, C.E., 1/64'' Thick
MBD-233A	1	Stud, Terminal	MU-54B	*	Washer, Thrust, C.E., 3/64'' Thick
MBR-12 †	2	Brush			<u>Miscellaneous Parts</u>
MBR-12A †	2	Brush	EBA-74	1	Bendix Drive Assy.
MBR-13 †	2	Brush	MBD-254	8	Screw, Pinion Housing, Hex. Hd. #10-32x7/8
MBR-13A †	2	Brush	MBD-1024K	1	Band, Cover
MBR-34	1	Connector, Coil	MBD-1315	1	Bearing Assy., Intermediate
MC-51A	1	Washer, Plain, Term. Stud, Inner	MBD-312	1	Retainer, Felt
MCK-3005S	1	FIELD COIL PACKAGE	MBD-313	1	Felt Washer
MCK-1007	1	Coil, Field, U.L.	MBD-314	1	BEARING, ABS. BRONZE
MCK-1008	1	Coil, Field, L.R.	PS-1282	1	Housing Assy., Pinion
MCK-1009	1	Coil, Field, U.R.	MAB-88	1	Pin, Dowel
MCK-1010	1	Coil, Field, L.L.	MBD-220	1	BEARING, ABS. BRONZE
MR-32	1	Insulation, Field Connection	12X-196	8	Lockwasher, Housing Screw, #10
8X-66	4	Screw, Br. Grd., Flat Hd. #10-32x1/2	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
8X-830	2	Nut, Term. Stud, Hex. 3/8-16			
<u>Comm. End Head Assembly & Parts Used With</u>					
GAL-40A	1	Cover, Bearing, Comm. End			
MAD-110	1	Felt			
MBR-2236B	1	Head Assy., Comm. End, Complete			
MBD-150	1	Wick, Felt			
MBD-1236	1	Head Assy., Partial, C.E.			
GBF-79	1	BEARING, ABS. BRONZE			
MBR-2079	1	Plate Assy., Brush			
GG-81	4	Clip, Brush Holder			
MBD-19	8	Spring, Brush			
MBD-47	4	Spacer			
8X-120	4	Screw, Brush Plate, Fill. Hd. #10-32x5/8			
12X-196	4	Lockwasher, Brush Plate Screw, #10			
X-2964	1	Oiler			
8X-120	12	Screw, C.E. Head, Fill. Hd. #10-32x5/8			
12X-196	12	Lockwasher, Head Screw, #10			

* Use as required.

† BRUSH SET, SERVICE MBR-1012S.

UNIT	APPLICATION
MCK-4002	Sheppard

(Issued 10-3-49)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCK- 4003 STARTING MOTOR PARTS LIST

MCK- 4003
(Issued 10- 25- 56)

<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				
MCK- 2001	1	Frame & Field Assembly	MAK- 61	1	Washer, Thrust, C. E.				
GK- 38	4	Screw, Pole Shoe	MBD- 247A	1	Washer, Thrust, Int.				
MAW- 37	1	Bushing, Ins. , Term. Stud	MBD- 311	*	Washer, Thrust, Int.				
MAX- 44	1	Washer, Plain, Term. Stud, Outer	MCK- 2045	1	ARMATURE				
MBD- 119	2	Washer, Ins. , Term. Stud	MU- 54	1	Washer, Thrust, C. E. , 1/32" Thick				
MBD- 231	1	Connector, Term. Stud	<u>Miscellaneous Parts</u>						
MBD- 233A	1	Stud, Terminal	EBB- 28	1	Bendix Drive				
MBR- 34	1	Connector	MBD- 254	8	Screw, Pinion Housing, Hex. Hd. #10- 32x7/8				
MBR- 1012S	1	Brush Set	MBD- 1315	1	Bearing Assy. , Intermediate				
MC- 51A	1	Washer, Plain, Term. Stud, Inner	MBD- 312	1	Retainer, Felt, Washer				
MCK- 32	2	Insulation, Field Connection	MBD- 313	1	Washer, Felt				
MCK- 3005S	1	FIELD COIL PACKAGE	MBD- 314	1	BEARING, ABS. BRONZE				
MCK- 1007	1	Coil, Field, U. L.	MCK- 1024	1	Band, Cover				
MCK- 1008	1	Coil, Field, L. R.	PS- 1278	1	Housing Assy, Pinion				
MCK- 1009	1	Coil, Field, U. R.	MAB- 88	1	Pin. , Dowel				
MCK- 1010	1	Coil, Field, L. L.	MBD- 257	1	BEARING, ABSORBENT BRONZE				
8X- 66	4	Screw, Br. Grd. , Flat Hd. # 10- 32x1/2	12X- 196	8	Lockwasher, Housing Sc. , #10				
12X- 201	1	Lockwasher, Term. Stud, 3/8	8X- 714	1	Screw, Cover Band, Rd. Hd. #10- 32x1 1/2				
8X- 830	1	Nut, Term. Stud, Hex. 3/8 - 16	8X- 794	1	Nut, Cover Band, Square #10- 32				
8X- 148	1	Nut, Term. Stud, Hex. 3/8 - 16	* Use as Required.						
12X- 201	1	Lockwasher, Term. Stud, 3/8	<table border="1"> <thead> <tr> <th>UNIT</th> <th>APPLICATION</th> </tr> </thead> <tbody> <tr> <td>MCK- 4003</td> <td>Towmotor</td> </tr> </tbody> </table>			UNIT	APPLICATION	MCK- 4003	Towmotor
UNIT	APPLICATION								
MCK- 4003	Towmotor								
<u>Comm. End Head Assembly & Parts Used With</u>									
GAL- 40A	1	Cover, Bearing, Comm. End							
MAD- 110	1	Felt							
MBD- 258	12	Screw, C. E. Head, Fill. Hd. #10- 32x5/8							
MBR- 2410	1	Head Assy. , Comm. End							
MBD- 150	1	Wick, Felt							
MBD- 1410	1	Head Assy. , Partial, Comm. End							
GBF- 79	1	BEARING, ABSORBENT BRONZE							
MBR- 2079	1	Plate Assy. , Brush							
GG- 81	4	Clip, Brush Holder Post							
MBD- 19	8	Spring, Brush							
MBD- 47	4	Spacer, Spring, Brush							
8X- 120	4	Screw, Brush Plate, Fill. Hd. #10- 32x5/8							
12X- 196	4	Lockwasher, Brush Plate Screw, # 10							
X- 2964A	1	Oiler							
12X- 196	12	Lockwasher, C. E. Head Sc. , #10							

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCK-4004 STARTING MOTOR PARTS LIST

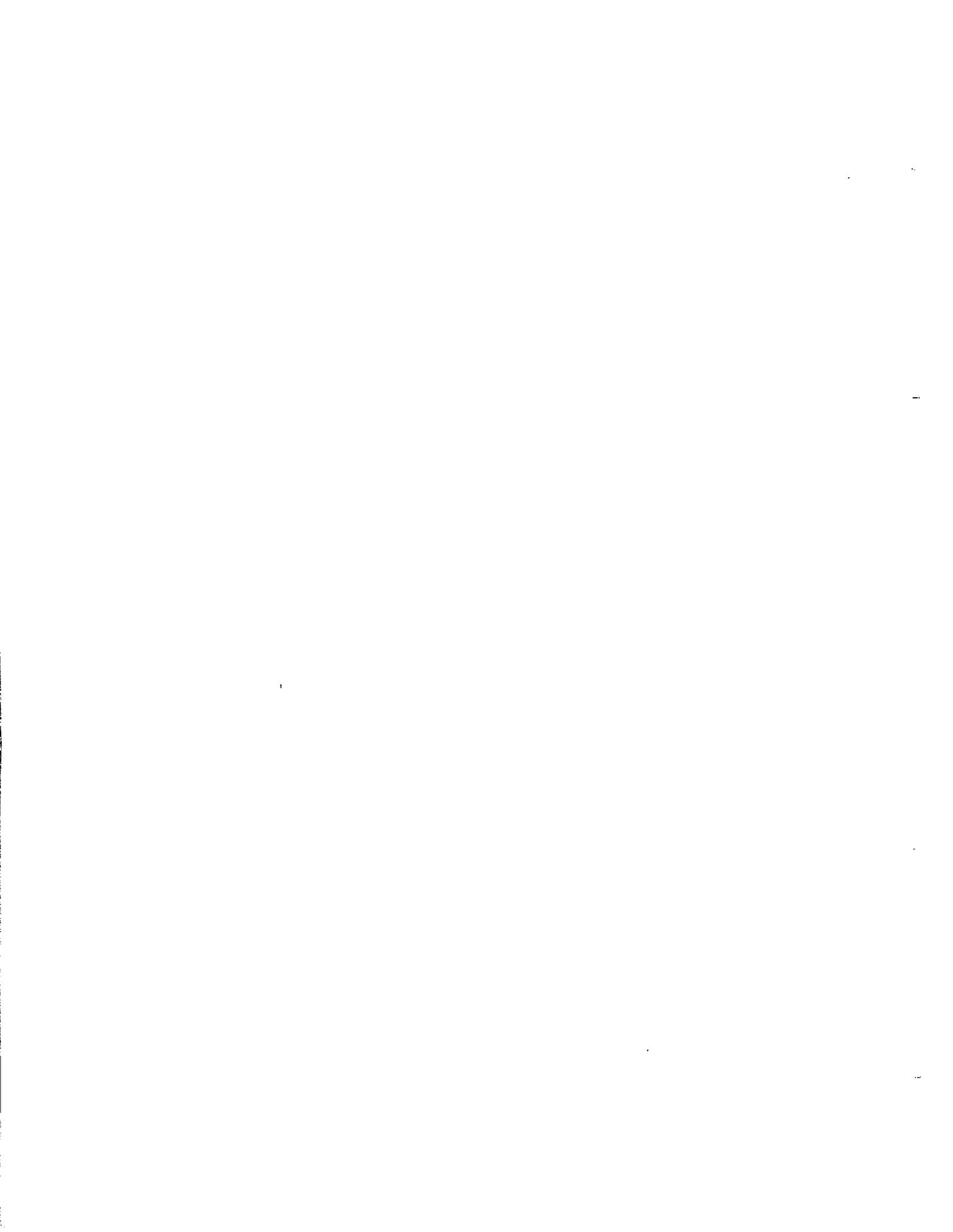
MCK-4004
(Issued 9-17-53)

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				
MCK-2046	1	Frame & Field Assembly	MAK-61	1	Washer, Arm. Thrust, Comm. End				
GK-38	4	Screw, Pole Shoe	MBD-247A	1	Washer, Thrust, Intermediate				
MAW-37	1	Bushing, Ins., Term. Stud	MBD-311	*	Washer, Thrust, Intermediate				
MAX-44	1	Washer, Plain, Term. Stud, Outer	MCK-2045	1	Armature				
MBD-119	2	Washer, Ins., Term. Stud	MU-54	1	Washer, Thrust, C. E., 1/32" Thick				
MBD-231	1	Connector, Term. Stud	Switch Assembly & Parts Used With						
MBD-233A	1	Stud, Terminal	MBD-1253C	1	Switch & Bracket Assy.				
MBR-12 †	2	Brush	MBD-253	1	Bracket				
MBR-12A †	2	Brush	MCC-34	1	Connector				
MBR-13 †	2	Brush	WSM-4101A	1	Switch, Solenoid (See Separate List for Parts)				
MBR-13A †	2	Brush	8X-343	2	Screw, Switch Mtg., Hex. Hd. 1/4-28x5/8				
MBR-34	1	Connector	XA-595	2	Nut, Switch Mtg., Hex. 1/4-28				
MC-51A	1	Washer, Plain, Term. Stud, Inner	12X-196	2	Lockwasher, Bracket Mtg. Sc., #10				
MCK-3005S	1	Field Coil Package	8X-709	2	Screw, Bracket Mtg., Fill. Hd. #10-32x7/16				
MCK-1007	1	Coil, Field, U.L.	Miscellaneous Parts						
MCK-1008	1	Coil, Field, L.R.	EBB-3	1	Bendix Drive Assy.				
MCK-1009	1	Coil, Field, U.R.	MBD-254	8	Screw, Pinion Housing, Hex. Hd. #10-32x7/8				
MCK-1010	1	Coil, Field, L.L.	MBD-1315	1	Bearing Assy., Intermediate				
MR-32	2	Insulation, Field Connection	MBD-312	1	Retainer, Felt				
8X-66	4	Screw, Br. Grd., Flat Hd. #10-32x1/2	MBD-313	1	Washer, Felt				
12X-201	1	Lockwasher, Term. Stud, 3/8	MBD-314	1	Bearing, Abs. Bronze				
8X-830	1	Nut, Term. Stud, Hex. 3/8-16	MCK-1024	1	Band, Cover				
8X-148	1	Nut, Term. Stud, Hex. 3/8-16	PS-1228	1	Housing Assy., Pinion				
12X-201	1	Lockwasher, Term. Stud, 3/8	MAB-88	1	Pin, Dowel				
Comm. End Head Assembly & Parts Used With			MBD-257	1	Bearing, Abs. Bronze				
GAL-40A	1	Cover, Bearing, C. E.	12X-196	8	Lockwasher, Housing Screw, #10				
MAD-110	1	Felt	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2				
MBR-2236B	1	Head Assy., Comm. End	8X-794	1	Nut, Cover Band, Square #10-32				
MBD-150	1	Wick, Felt	† Brush Set, Service MBR-1012S * Use as Required.						
MBD-1236	1	Head Assy., Partial, C. E.	<table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="text-align: center;">UNIT</th> <th style="text-align: center;">APPLICATION</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">MCK-4004</td> <td style="text-align: center;">National Supply</td> </tr> </tbody> </table>			UNIT	APPLICATION	MCK-4004	National Supply
UNIT	APPLICATION								
MCK-4004	National Supply								
GBF-79	1	Bearing, Abs. Bronze							
MBR-2079	1	Plate Assy., Brush							
GG-81	4	Clip, Brush Holder Post							
MBD-19	8	Spring, Brush							
MBD-47	4	Spacer, Spring, Brush							
8X-120	4	Screw, Brush Plate, Fill. Hd. #10-32x5/8							
12X-196	4	Lockwasher, Brush Plate Screw, #10							
X-2964A	1	Oiler							
8X-120	12	Screw, C. E. Head, Fill. Hd. #10-32x5/8							
12X-196	12	Lockwasher, Head Screw, #10							

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCK-4005 STARTING MOTOR PARTS LIST

MCK-4005
(Issued 10-24-55)

<u>Frame & Field Assembly & Parts Used With</u>			<u>Armature Assembly (Continued)</u>						
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part				
MCK-2047	1	Frame & Field Assembly	MCK-2021	1	ARMATURE				
GK-38	4	Screw, Pole Shoe	MU-54	1	Washer, Thrust, C. E. , 1/32" Thick				
MAW-37	1	Bushing, Ins. , Term. Stud	<u>Switch Assembly & Parts Used With</u>						
MAX-44	1	Washer, Plain, Term. Stud, Outer	MCK-1053	1	Switch & Bracket Assy.				
MBD-119	1	Washer, Ins. , Term. Stud, Outer	MBD-252	1	Bracket				
MBD-401C	1	Insulation, Sleeve	MCK-68	1	Connector				
MCH-25A	1	Washer, Ins. , Term. Stud, Inner	WSM-4101A	1	SOLENOID STARTING SWITCH (See separate list for parts)				
MCK-28	1	Stud, Terminal	8X-343	2	Screw, Switch Mtg. , Hex. Hd. 1/4-28x5/8				
MCK-35	1	Stud, Terminal, Grounded	XA-595	2	Nut, Switch Mtg. , Hex. 1/4-28				
MCK-50	4	Plate, Brush Lock	12X-199	4	Lockwasher, Bracket Mtg. Sc. , 1/4				
MCK-1007DS	1	COIL ASSY. , FIELD, UPPER	8X-905	4	Screw, Bracket Mtg. , Fill. Hd. 1/4-20x7/16				
MCK-1008DS	1	COIL ASSY. , FIELD, LOWER	<u>Miscellaneous Parts</u>						
MCK-1012S	1	BRUSH SET	EBB-13	1	BENDIX DRIVE ASSY.				
MN-47B	1	Washer, Plain, Term. Stud, Grounded	EBA-5716	1	Screw, Pinion Back Stop				
12X-201	2	Lockwasher, Term. Stud, 3/8	EBB-1104	1	Pinion				
8X-830	2	Nut, Term. Stud, Hex. 3/8-16	EBB-1113	1	Spring, Anti-Drift				
X-3268	8	Screw, Brush, Bdg. Hd. #8-32x3/8	EBB-1115A	1	Stop, Pinion Back				
8X-148	1	Nut, Term. Stud, Hex. 3/8-16	EBB-1131	1	Shaft, Screw				
12X-201	1	Lockwasher, Term. Stud, 3/8	EBB-1142	1	Pin, Stop Nut				
<u>Comm. End Head Assembly & Parts Used With</u>			EBB-1142	1	Pin, Stop Nut				
GAL-40A	1	Cover, Bearing, C. E.	EBB-1325	1	Spring, Meshing				
MAD-110	1	Felt	EBB-3011S	1	Spring Kit, Anti-Drift				
MBD-258	12	Screw, C. E. Head, Fill. Hd. #10-32x5/8	EBB-3013S	1	Pinion Kit				
MBR-2236B	1	Head Assy. , Comm. End	EBB-3015S	1	Clutch Assembly Kit				
MBD-150	1	Wick, Felt	MBD-1403	1	Bearing Assy. , Intermediate				
MBD-1236	1	Head Assy. , Partial, C. E.	MBD-295	1	BEARING, ABS. BRONZE				
GBF-79	1	BEARING, ABS. BRONZE	MBD-312	1	Retainer, Felt				
MBR-2079	1	Plate Assy. , Brush	MBD-313	1	Washer, Felt				
GG-81	4	Clip, Brush Holder Post	MCK-36	8	Screw, Pinion Housing, Hex. Hd. #10-32x1 1/4				
MBD-19	8	Spring, Brush	MCK-1024	1	Band, Cover				
MBD-47	4	Spacer, Spring, Brush	PS-1317A	1	Housing Assy. , Pinion				
8X-120	4	Screw, Brush Plate, Fill. Hd. #10-32x5/8	MBD-257	1	BEARING, ABS. BRONZE				
12X-196	4	Lockwasher, Brush Plate Screw, #10	8X-65	3	Screw, Int. Bearing, Flat Hd. #10-32x3/4				
X-2964A	1	Oiler	12X-196	8	Lockwasher, Housing Screw, #10				
12X-196	12	Lockwasher, C. E. Head Sc. , #10	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2				
<u>Armature Assembly & Parts Used With</u>			8X-794	1	Nut, Cover Band, Square #10-32				
MAK-61	1	Washer, Thrust, Comm. End	* Use as required.						
MCK-22	*	Washer, Thrust, Int. , .032" Thick	<table border="1"> <thead> <tr> <th>UNIT</th> <th>APPLICATION</th> </tr> </thead> <tbody> <tr> <td>MCK-4005</td> <td>J. I. Case</td> </tr> </tbody> </table>			UNIT	APPLICATION	MCK-4005	J. I. Case
UNIT	APPLICATION								
MCK-4005	J. I. Case								
MCK-22A	1	Washer, Thrust, Int. , .065" Thick							

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"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

MCL-6002AM, M STARTING MOTOR PARTS LIST

MCL-6002AM, M
(Issued 3-19-52)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GJ-20A	2	Bolt, Thru
MCL-3031A	1	Frame & Field Assy.
GK-38C	4	Screw, Pole Shoe
MAB-12†	2	Brush
MAB-30	1	Insulation, Field Connection
MAB-31A	1	Washer, Ins., Term. Stud, Outer
MAB-65	1	Terminal
MAB-85A	1	Bushing, Ins., Term. Stud
MAX-58	1	Equalizer
MCJ-39A	1	Washer, Ins., Term. Stud, Inner
MCL-3005S	1	FIELD COIL PACKAGE
MAX-64	2	Connector, Field Coil
MAX-1008	1	Coil, Field, L.R.
MAX-1009	1	Coil, Field, L.L.
MCL-1007	1	Coil, Field, U.L.
MCL-1010	1	Coil, Field, U.R.
MN-21A	2	Pin, Dowel
MU-28	1	Stud, Terminal
MU-37G	1	Washer, Plain, Term. Stud
X-180	2	Nut, Term. Stud, Hex. 5/16-24
12X-1014	2	Lockwasher, Term. Stud, 5/16
12X-199	2	Lockwasher, Thru Bolt, 1/4

Comm. End Head Assembly & Parts Used With

MCJ-3002A	1	Head Assy., Comm. End
MAD-110	1	Felt
MZ-19A	4	Spring, Brush
MZ-1034S†	2	Brush, Grounded

Armature Assembly & Parts Used With

MCH-2021M	1	ARMATURE
MU-54F	*	Washer, Thrust, C.E. & Inter., 1/32" Thick
MU-54G	*	Washer, Thrust, C.E. & Inter., 1/64" Thick
MU-54J	*	Washer, Thrust, C.E. & Inter., .046" Thick
X-261	1	Key, Woodruff, D.E., #6

Switch Assembly & Parts Used With

MAX-89R	1	Connector
SSP-4001M	1	SWITCH, SOLENOID
12X-196	1	Lockwasher, #10
12X-1014	2	Lockwasher, 5/16

Switch Assembly (Continued)

Part No.	No. Used	Name of Part
8X-2843	2	Nut, Hex. 5/16-24
8X-2853	1	Nut, Hex. #10-32
X-20	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
X-1270	2	Washer, Switch Mtg. Sc., Skpf. #10

Miscellaneous Parts

EBA-80B	1	BENDIX DRIVE ASSY.
EBA-4431A	1	Screw Shaft
EBA-4805	1	SPRING, DRIVE
EBA-4807	2	Plate, Spring Anchor
EBA-4808	1	Ring, Lock
EBA-4813	1	Spring, Anti-Drift
EBA-4825	1	Spring, Meshing
EBA-4833	1	Ring, Retaining
EBA-7906	1	Pin, Locating
EBA-8032A	1	Pinion
MAB-1024N	1	Band, Cover
MCH-1040B	1	BEARING ASSY., INTERMEDIATE
MAW-130	1	Bearing, Abs. Bronze
PS-1283B	1	Housing Assy., Pinion
MG-77A	1	BEARING, ABS. BRONZE
12X-196	2	Lockwasher, Int. Brg. Sc., #10
X-2875	1	Nut, Cover Band, Square #10-32
X-2881	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
X-2882	1	Screw, Cover Band, Fill. Hd. #10-32x1 1/2

NOTE: MCL-6002M Starting Motor uses EBA-44A Bendix Drive with sub parts as noted below:

EBA-44A	1	BENDIX DRIVE ASSY.
EBA-4431A	1	Shaft
EBA-4807	2	Plate, Spring Anchor
EBA-4808	1	Ring, Lock
EBA-4813	1	Spring, Anti-Drift
EBA-4825	1	Spring, Meshing
EBA-4832	1	Pinion
EBA-4833	1	Ring, Retaining
EBA-7906	1	Screw, Head
EBA-9605A	1	SPRING, DRIVE

† BRUSH SET, SERVICE MAB-2012AS.

* Use as required.

UNIT	APPLICATION
MCL-6002AM	Owens Yacht
MCL-6002M	Packard (Marine)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6003 STARTING MOTOR PARTS LIST

MCL-6003
(Issued 3-19-52)

Frame & Field Assembly & Parts Used With			Switch Assembly (Continued)		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20A	2	Bolt, Thru	8X-832	2	Nut, Hex. 5/16-24
MCL-2041	1	Frame & Field Assy.	12X-1014	2	Lockwasher, 5/16
GK-38	4	Screw, Pole Shoe	8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
MAB-30	1	Insulation, Field Connection	X-1270	2	Washer, Switch Mtg. Sc., Skpf. #10
MAB-31	1	Washer, Ins., Term. Stud, Outer			
MAB-65	1	Terminal			
MAB-85	1	Bushing, Ins., Term. Stud			
MAX-58	1	Equalizer			
MCJ-39	1	Washer, Ins., Term. Stud, Inner			
MCL-3005S	1	FIELD COIL PACKAGE			
MAX-64	2	Connector, Field Coil			
MAX-1008	1	Coil, Field, L.R.			
MAX-1009	1	Coil, Field, L.L.			
MCL-1007	1	Coil, Field, U.L.			
MCL-1010	1	Coil, Field, U.R.			
MN-21	2	Pin, Dowel			
MU-37	1	Washer, Plain, Term. Stud			
MZ-12†	2	Brush			
MZ-209	1	Stud, Terminal			
8X-164	2	Nut, Term. Stud, Hex. 5/16-18			
12X-1014	2	Lockwasher, Term. Stud, 5/16			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
Comm. End Head Assembly & Parts Used With			Miscellaneous Parts		
MCJ-2030	1	Head Assy., Comm. End	EBA-45	1	BENDIX DRIVE ASSY.
MAD-110	1	Felt	EBA-1213	1	Spring, Anti-Drift
MZ-19	4	Spring, Brush	EBA-1225	1	Spring, Meshing
MZ-1034S†	2	Brush, Grounded	EBA-1232	1	Pinion
			EBA-1233	1	Ring, Retaining
			EBA-2006	1	Pin, Locating
			EBA-2007	2	Plate, Spring Anchor
			EBA-2008	1	Ring, Lock
			EBA-2031	1	Shaft
			EBA-4505	1	SPRING, DRIVE
			MAW-24	1	Band, Cover
			MCH-1040	1	Bearing Assy., Intermediate
			MAW-130	1	Bearing, Abs. Bronze
			PS-1283	1	Housing Assy., Pinion
			MG-77A	1	BEARING, ABS. BRONZE
			12X-196	2	Lockwasher, Int. Bearing Sc., #10
			8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
			8X-794	1	Nut, Cover Band, Square #10-32
			8X-1368	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
Armature Assembly & Parts Used With			† BRUSH SET, SERVICE MZ-2012AS.		
MCH-2021	1	ARMATURE	* Use as required.		
MU-54	*	Washer, Thrust, C.E. & Inter., 1/32" Thick			
MU-54A	*	Washer, Thrust, C.E. & Inter., 1/64" Thick			
MU-54B	*	Washer, Thrust, C.E. & Inter., 3/64" Thick			
X-261	1	Key, Woodruff, D.E., #6			
Switch Assembly & Parts Used With					
MAX-89R	1	Connector			
SS-4017	1	SOLENOID STARTING SWITCH			
8X-173	1	Nut, Hex. #10-32			
12X-196	1	Lockwasher, #10			

UNIT	APPLICATION
MCL-6003	Packard

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6004 STARTING MOTOR PARTS LIST

MCL-6004
(Issued 3-20-52)

Frame & Field Assembly & Parts Used With			Switch Assembly (Continued)		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20A	2	Bolt, Thru	8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
MCL-2031	1	Frame & Field Assy.	X-1270	2	Washer, Switch Mtg. Sc., Skpf. #10
GK-38	4	Screw, Pole Shoe	<u>Miscellaneous Parts</u>		
MAB-30	1	Insulation, Field Connection	EBA-52	1	BENDIX DRIVE ASSEMBLY
MAB-31	1	Washer, Ins., Term. Stud, Outer	EBA-1213	1	Spring, Anti-Drift
MAB-65	1	Terminal	EBA-1225	1	Spring, Meshing
MAB-85	1	Bushing, Ins., Term. Stud	EBA-1233	1	Ring, Retaining
MAX-58	1	Equalizer	EBA-2006	1	Pin, Locating
MCL-3005S	1	FIELD COIL PACKAGE	EBA-2007	2	Plate, Spring Anchor
MAX-64	2	Connector, Field Coil	EBA-2008	1	Ring, Lock
MAX-1008	1	Coil, Field, L. R.	EBA-2031	1	Screw, Shaft
MAX-1009	1	Coil, Field, L. L.	EBA-2105	1	SPRING, DRIVE
MCL-1007	1	Coil, Field, U. L.	EBA-7632	1	Pinion
MCL-1010	1	Coil, Field, U. R.	MAW-24	1	Band, Cover
MN-21	2	Pin, Dowel	MCJ-1040	1	BEARING ASSY., INTERMEDIATE
MU-37	1	Washer, Plain, Term. Stud	MAW-130	1	Bearing, Absorbent Bronze
MZ-12†	2	Brush	PS-1285	1	Housing Assy., Pinion
MZ-209	1	Stud, Terminal	MG-77A	1	BEARING, ABSORBENT BRONZE
8X-164	2	Nut, Term. Stud, Hex. 5/16-18	12X-196	2	Lockwasher, Int. Bearing Sc., #10
12X-1014	2	Lockwasher, Term. Stud, 5/16	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
12X-199	2	Lockwasher, Thru Bolt, 1/4	8X-794	1	Nut, Cover Band, Square #10-32
<u>Comm. End Head Assembly & Parts Used With</u>			8X-1368	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
MCJ-2030	1	Head Assy., Comm. End	* Use as required.		
MAD-110	1	Felt	† BRUSH SET, SERVICE MZ-2012AS.		
MZ-19	4	Spring, Brush			
MZ-1034S†	2	Brush, Grounded			
<u>Armature Assembly & Parts Used With</u>					
MCH-2021	1	ARMATURE			
MU-54	*	Washer, Thrust, C. E. & Inter., 1/32" Thick			
MU-54A	*	Washer, Thrust, C. E. & Inter., 1/34" Thick			
MU-54B	*	Washer, Thrust, C. E. & Inter., 3/64" Thick			
X-261	1	Key, Woodruff, D. E., #6			
<u>Switch Assembly & Parts Used With</u>					
MAX-89R	1	Connector			
SST-4004	1	SOLENOID SWITCH			
8X-164	2	Nut, Hex. 5/16-18			
8X-173	1	Nut, Hex. #10-32			
12X-196	1	Lockwasher, #10			
12X-1014	2	Lockwasher, 5/16			

UNIT	APPLICATION
MCL-6004	Chris Craft, Nordberg, Massey Harris

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6005 STARTING MOTOR PARTS LIST

MCL-6005
(Issued 3-20-52)

<u>Frame & Field Assembly & Parts Used With</u>			<u>Switch Assembly (Continued)</u>		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20A	2	Bolt, Thru	8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
MCL-3031	1	Frame & Field Assy.	X-1270	2	Washer, Switch Mtg., Sc., Skpf. #10
GK-38	4	Screw, Pole Shoe	<u>Miscellaneous Parts</u>		
MAB-30	1	Insulation, Field Connection	EBA-80	1	BENDIX DRIVE ASSEMBLY
MAB-31	1	Washer, Ins., Term. Stud, Outer	EBA-513	1	Spring, Anti-Drift
MAB-65	1	Terminal	EBA-525	1	Spring, Meshing
MAB-85	1	Bushing, Ins., Term. Stud	EBA-1233	1	Ring, Retaining
MAX-58	1	Equalizer	EBA-2006	1	Pin, Locating
MCJ-39	1	Washer, Ins., Term. Stud, Inner	EBA-2008	1	Ring, Lock
MCL-3005S	1	FIELD COIL PACKAGE	EBA-3505	1	SPRING, DRIVE
MAX-64	2	Connector, Field Coil	EBA-3507	2	Plate, Spring Anchor
MAX-1008	1	Coil, Field, L.R.	EBA-4431	1	Shaft, Screw
MAX-1009	1	Coil, Field, L.L.	EBA-8032	1	Pinion
MCL-1007	1	Coil, Field, U.L.	MAW-24	1	Band, Cover
MCL-1010	1	Coil, Field, U.R.	MCJ-1040	1	BEARING ASSY. INTERMEDIATE
MN-21	2	Pin, Dowel	MAW-130	1	Bearing, Absorbent Bronze
MU-37	1	Washer, Plain, Term. Stud	PS-1285	1	Housing Assy., Pinion
MZ-12†	2	Brush	MG-77A	1	BEARING, ABSORBENT BRONZE
MZ-209	1	Stud, Terminal	12X-196	2	Lockwasher, Int. Bearing Sc., #10
8X-164	2	Nut, Term. Stud, Hex. 5/16-18	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
12X-1014	2	Lockwasher, Term. Stud, 5/16	8X-794	1	Nut, Cover Band, Square #10-32
12X-199	2	Lockwasher, Thru Bolt, 1/4	8X-1368	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
<u>Comm. End Head Assembly & Parts Used With</u>			<u>Armature Assembly & Parts Used With</u>		
MCJ-3002	1	Head Assy., Comm. End	MCH-2021	1	ARMATURE
MAD-110	1	Felt	MU-54	*	Washer, Thrust, C.E. & Inter., 1/32" Thick
MZ-19	4	Spring, Brush	MU-54A	*	Washer, Thrust, C.E. & Inter., 1/64" Thick
MZ-1034S†	2	Brush, Grounded	MU-54B	*	Washer, Thrust, C.E. & Inter., 3/64" Thick
<u>Switch Assembly & Parts Used With</u>			<u>Switch Assembly & Parts Used With</u>		
MAX-89R	1	Connector	MAX-89R	1	Connector
SST-4004	1	SOLENOID SWITCH	SST-4004	1	SOLENOID SWITCH
8X-164	2	Nut, Hex. 5/16-18	8X-164	2	Nut, Hex. 5/16-18
8X-173	1	Nut, Hex. #10-32	8X-173	1	Nut, Hex. #10-32
12X-196	1	Lockwasher, #10	12X-196	1	Lockwasher, #10
12X-1014	2	Lockwasher, 5/16	12X-1014	2	Lockwasher, 5/16

* Use as required.

† BRUSH SET, SERVICE MZ-2012AS.

UNIT	APPLICATION
MCL-6005	Nordberg (Marine), Chris Craft

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6006 STARTING MOTOR PARTS LISTS

MCL-6006
(Issued 3-21-52)

Frame & Field Assembly & Parts Used With			Switch Assy. (Continued)		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MAW-20A	2	Bolt, Thru	8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
MCL-2035	1	Frame & Field Assy.	X-1737	2	Washer, Switch Mtg. Sc., Skpf. #10
GK-38	4	Screw, Pole Shoe	<u>Miscellaneous Parts</u>		
MAB-30	1	Insulation, Field Connection	EBB-7	1	BENDIX DRIVE ASSY.
MAB-31	1	Washer, Ins., Term. Stud, Outer	EBA-513	1	Spring, Anti-Drift
MAB-65	1	Terminal	EBA-525	1	Spring, Meshing
MAB-85	1	Bushing, Ins., Term. Stud	EBA-1233	1	Ring, Retaining
MAX-58	1	Equalizer	EBA-2008	1	Ring, Lock
MCJ-39	1	Washer, Ins., Term. Stud, Inner	EBA-3505	1	SPRING, DRIVE
MCL-3005S	1	FIELD COIL PACKAGE	EBA-3507	2	Plate, Spring Anchor
MAX-64	2	Connector, Field Coil	EBA-3531	1	Shaft
MAX-1008	1	Coil, Field, L. R.	EBB-732	1	Pinion
MAX-1009	1	Coil, Field, L. L.	MAW-24	1	Band, Cover
MCL-1007	1	Coil, Field, U. L.	MCL-1003	1	Head Assy., Drive End
MCL-1010	1	Coil, Field, U. R.	MCL-27	1	Bearing, Abs. Bronze
MN-21	1	Pin, Dowel	MZ-124	1	Pin, Bendix
MU-37	1	Washer, Plain, Term. Stud	8X-66	2	Screw, Drive End Flat Hd. #10-32x1/2
MZ-12†	2	Brush	X-386	1	Oiler
MZ-209	1	Stud, Terminal	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-164	2	Nut, Term. Stud, Hex. 5/16-18	8X-794	1	Nut, Cover Band, Square # 10-32
12X-1014	2	Lockwasher, Term. Stud, 5/16			
8X-146	2	Nut, Thru Bolt, Hex. 1/4-20			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
<u>Comm. End Head Assembly & Parts Used With</u>					
MCJ-2030	1	Head Assy., Comm. End	† BRUSH SET, SERVICE MZ-2012AS.		
MAD-110	1	Felt	* Use as Required.		
MZ-19	4	Spring, Brush			
MZ-1034S†	2	Brush, Grounded			
<u>Armature Assembly & Parts Used With</u>					
MCH-2023	1	ARMATURE			
MU-54	*	Washer, Thrust, C. E. & D. E., 1/32" Thick			
MU-54A	*	Washer, Thrust, C. E. & D. E., 1/64" Thick			
MU-54B	*	Washer, Thrust, C. E. & D. E., 3/64" Thick			
<u>Switch Assembly & Parts Used With</u>					
MCL-29	1	Connector			
SS-4001	1	SOLENOID STARTING SWITCH			
8X-173	1	Nut, Hex. #10-32			
12X-196	1	Lockwasher, #10			
8X-832	2	Nut, Hex. 5/16-24			
12X-1014	2	Lockwasher, 5/16			

UNIT	APPLICATION
MCL-6006	Hudson

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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

MCL-6007 STARTING MOTOR PARTS LIST

MCL-6007
(Issued 3-21-52)

Frame & Field Assembly & Parts Used With			Miscellaneous Parts		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20A	2	Bolt, Thru	EBA-52	1	BENDIX DRIVE ASSEMBLY
MCL-2031	1	Frame & Field Assy.	EBA-1213	1	Spring, Anti-Drift
GK-38	4	Screw, Pole Shoe	EBA-1225	1	Spring, Meshing
MAB-30	1	Insulation, Field Connection	EBA-1233	1	Ring, Retaining
MAB-31	1	Washer, Ins., Term. Stud, Outer	EBA-2006	1	Pin, Locating
MAB-65	1	Terminal	EBA-2007	2	Plate, Spring Anchor
MAB-85	1	Bushing, Ins., Term. Stud	EBA-2008	1	Ring, Lock
MAX-58	1	Equalizer	EBA-2031	1	Screw Shaft
MCJ-39	1	Washer, Ins., Term. Stud, Inner	EBA-2105	1	SPRING, DRIVE
MCL-3005S	1	FIELD COIL PACKAGE	EBA-7632	1	Pinion
MAX-64	2	Connector, Field Coil	MAW-24	1	Band, Cover
MAX-1008	1	Coil, Field, L. R.	MCJ-1040	1	BEARING ASSY., INTERMEDIATE
MAX-1009	1	Coil, Field, L. L.	MAW-130	1	Bearing, Absorbent Bronze
MCL-1007	1	Coil, Field, U. L.	PS-1289	1	Housing Assy., Pinion
MCL-1010	1	Coil, Field, U. R.	MG-77A	1	BEARING, ABSORBENT BRONZE
MN-21	2	Pin, Dowel	12X-196	4	Lockwasher, Int. Bearing & Switch Mtg. Sc., #10
MU-37	1	Washer, Plain, Term. Stud	8X-312	2	Screw, Switch Mtg., Rd. Hd. #10-32x1/4
MZ-12†	2	Brush	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MZ-209	1	Stud, Terminal	8X-794	1	Nut, Cover Band, Square #10-32
8X-164	2	Nut, Term. Stud, Hex. 5/16-18	8X-1368	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
12X-1014	2	Lockwasher, Term. Stud, 5/16			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
<u>Comm. End Head Assembly & Parts Used With</u>					
MCJ-2030	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
MZ-1034S†	2	Brush, Grounded			
<u>Armature Assembly & Parts Used With</u>					
MCH-2021	1	ARMATURE			
MU-54	*	Washer, Thrust, C. E. & Intermediate, 1/32" Thick			
MU-54A	*	Washer, Thrust, C. E. & Intermediate, 1/64" Thick			
MU-54B	*	Washer, Thrust, C. E. & Intermediate, 3/64" Thick			
X-261	1	Key, Woodruff, D. E., #6			

† BRUSH SET, SERVICE MZ-2012AS.

* Use as required.

UNIT	APPLICATION
MCL-6007	Buda

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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

MCL-6008 STARTING MOTOR PARTS LIST

MCL-6008
(Issued 3-21-52)

<u>Frame & Field Assembly & Parts Used With</u>		
Part No.	No. Used	Name of Part
GJ-20A	2	Bolt, Thru
MCL-2037	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAB-30	1	Insulation, Field Connection
MAB-31	1	Washer, Ins., Term. Stud, Outer
MAB-65	1	Terminal
MAB-35	1	Bushing, Ins., Term. Stud
MAX-58	1	Equalizer
MCJ-39	1	Washer, Ins., Term. Stud, Inner
MCL-3005S	1	FIELD COIL PACKAGE
MAX-64	2	Connector, Field Coil
MAX-1008	1	Coil, Field, L.R.
MAX-1009	1	Coil, Field, L.L.
MCL-1007	1	Coil, Field, U.L
MCL-1010	1	Coil, Field, U.R.
MN-21	2	Pin, Dowel
MU-37	1	Washer, Plain, Term. Stud
MZ-12†	2	Brush
MZ-209	1	Stud, Terminal
8X-164	2	Nut, Term. Stud, Hex. 5/16-18
12X-1014	2	Lockwasher, Term. Stud, 5/16
12X-199	2	Lockwasher, Thru Bolt, 1/4
<u>Comm. End Head Assembly & Parts Used With</u>		
MCJ-2030	1	Head Assy., Comm. End
MAD-110	1	Felt
MZ-19	4	Spring, Brush
MZ-1034S†	2	Brush, Grounded

<u>Armature Assembly & Parts Used With</u>		
Part No.	No. Used	Name of Part
MCH-2038	1	ARMATURE ASSY.
MAB-35	1	Spacer, Brg. Thrust
MU-54	*	Washer, Thrust, C.E. & D.E., 1/32" Thick
MU-54A	*	Washer, Thrust, C.E. & D.E., 1/64" Thick
MU-54B	*	Washer, Thrust, C.E. & D.E., 3/64" Thick

Miscellaneous Parts

EBA-35	1	BENDIX DRIVE ASSY.
EBA-513	1	Spring, Anti-Drift
EBA-525	1	Spring, Meshing
EBA-1233	1	Ring, Retaining
EBA-2008	1	Ring, Lock
EBA-3505	1	SPRING, DRIVE
EBA-3507	2	Plate, Spring Anchor
EBA-3531	1	Shaft
EBA-3532	1	Pinion
MAW-24	1	Band, Cover
MCL-1036	1	Head Assy., Drive End
MAB-49A	1	BEARING, ABSORBENT BRONZE
MZ-124	1	Pin, Bendix
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32

* Used as Required.

† BRUSH SET, SERVICE MZ-2012AS.

UNIT	APPLICATION
MCL-6008	Nash

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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

MCL-6009, A, B STARTING MOTOR PARTS LIST

MCL-6009, A, B
(Issued 1-12-56)

Frame & Field Assembly & Parts Used With			Miscellaneous Parts		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20A	2	Bolt, Thru	†EBA-52	1	BENDIX DRIVE ASSEMBLY
MCL-2037	1	Frame & Field Assy.	EBA-1213	1	Spring, Anti-Drift
GK-38	4	Screw, Pole Shoe	EBA-1225	1	Spring, Meshing
MAB-30	1	Insulation, Field Connection	EBA-1233	1	Ring, Retaining
MAB-31	1	Washer, Ins., Term. Stud, Outer	EBA-2006	1	Pin, Locating
MAB-65	1	Terminal	EBA-2008	1	Ring, Lock
MAB-85	1	Bushing, Ins., Term. Stud	EBA-2031	1	Screw Shaft
MAX-58	1	Equalizer	EBA-2105	1	SPRING, DRIVE
MCJ-39	1	Washer, Ins., Term. Stud, Inner	EBA-3307	2	Plate, Spring Anchor
MCL-3005S	1	FIELD COIL PACKAGE	EBA-7632	1	Pinion
MAX-64	2	Connector, Field Coil	**	1	Band, Cover
MAX-1008	1	Coil, Field, L. R.	MCJ-1040	1	BEARING ASSY., INTERMEDIATE
MAX-1009	1	Coil, Field, L. L.	MAW-130	1	Bearing, Abs. Bronze
MCL-1007	1	Coil, Field, U. L.	PS-1285	1	Housing Assy., Pinion
MCL-1010	1	Coil, Field, U. R.	MG-77A	1	BEARING, ABS. BRONZE
MN-21	2	Pin, Dowel	12X-196	2	Lockwasher, Int. Bearing Sc., #10
MU-37	1	Washer, Plain, Term. Stud	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MZ-12†	2	Brush	8X-794	1	Nut, Cover Band, Square #10-32
MZ-209	1	Stud, Terminal	8X-1368	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
8X-164	2	Nut, Term. Stud, Hex. 5/16-18			
12X-1014	2	Lockwasher, Term. Stud, 5/16			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
<u>Comm. End Head Assembly & Parts Used With</u>					
MCJ-2030	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
MZ-1034S†	2	Brush, Grounded			
<u>Armature Assembly & Parts Used With</u>					
MCH-2021	1	ARMATURE			
MU-54	1	Washer, Thrust, Int., 1/32" Thick			
MU-54	*	Washer, Thrust, C. E., 1/32" Thick			
MU-54B	*	Washer, Thrust, C. E., 3/64" Thick			
MU-54K	*	Washer, Thrust, C. E., 080" Thick			
MU-54L	*	Washer, Thrust, C. E., 1/16" Thick			
X-261	1	Key, Woodruff, D. E., #6			

† BRUSH SET, SERVICE MZ-2012AS
 * Use as Required.
 ‡ Starting motor MCL-6009B uses EBB-31 BENDIX DRIVE with no sub parts.
 ** See table following parts list for part number applying to assembly wanted.

Assembly No.	Cover Band
MCL-6009	MAW-24
MCL-6009A	MAX-1024
MCL-6009B	MAW-24

UNIT	APPLICATION
MCL-6009	Continental, Ross Carrier
MCL-6009A	Tractomotive Corp.
MCL-6009B	Continental

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

MCL-6011M STARTING MOTOR PARTS LIST

MCL-6011M

Frame & Field Assembly & Parts Used With			Switch Assembly & Parts Used With (Continued)		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20A	2	Bolt, Thru	8X-2853	1	Nut, Hex. #10-32
(MCL-3031A)	1	Frame & Field Assy.	X-20	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
GK-38C	4	Screw, Pole Shoe	X-1270	2	Washer, Switch Mtg. Sc., Skpf. #10
MAB-12†	2	Brush			
MAB-30	1	Insulation, Field Conn.			
MAB-31A	1	Washer, Ins., Term. Stud, Outer			
MAB-65	1	Terminal			
MAB-85A	1	Bushing, Ins., Term. Stud			
MAX-58	1	Equalizer			
MCJ-39A	1	Washer, Ins., Term. Stud, Inner			
MCL-3005S	1	FIELD COIL PACKAGE			
MAX-64	2	Connector, Field Coil			
MAX-1008	1	Coil, Field, L.R.			
MAX-1009	1	Coil, Field, L.L.			
MCL-1007	1	Coil, Field, U.L.			
MCL-1010	1	Coil, Field, U.R.			
MN-21A	2	Pin, Dowel			
MU-28	1	Stud, Terminal, 5/16-24			
MU-37G	1	Washer, Plain, Term. Stud			
X-180	2	Nut, Term. Stud, Hex. 5/16-24			
12X-1014	2	Lockwasher, Term. Stud, 5/16			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
Comm. End Head Assembly & Parts Used With			Miscellaneous Parts		
MCJ-3002A	1	Head Assy., Comm End	EBA-80B	1	BENDIX DRIVE ASSY.
MAD-110	1	Felt	EBA-4431A	1	Screw Shaft
MZ-19A	4	Spring, Brush	EBA-4805	1	SPRING, DRIVE
MZ-1034S†	2	Brush, Grounded	EBA-4807	2	Plate, Spring Anchor
Armature Assembly & Parts Used With			EBA-4808	1	Ring, Lock
MCH-2021M	1	ARMATURE	EBA-4813	1	Spring, Anti-Drift
MU-54F	*	Washer, Arm. Thrust, Int., 1/32" Thick	EBA-4825	1	Spring, Meshing
MU-54G	*	Washer, Arm. Thrust, Int., 1/64" Thick	EBA-4833	1	Ring, Retaining
MU-54J	*	Washer, Arm. Thrust, Int., .046" Thick	EBA-7906	1	Pin, Locating
X-261	1	Key, Woodruff, #6	EBA-8032A	1	Pinion
Switch Assembly & Parts Used With			MAB-1024N	1	Band, Cover
MAX-89L	1	Connector	MCH-1040B	1	BEARING ASSY., INTERMEDIATE
SSP-4001M	1	SWITCH, SOLENOID	MAW-130	1	Bearing, Absorbent Bronze
12X-196	1	Lockwasher, #10	PS-1283D	1	Housing Assy., Pinion
12X-1014	2	Lockwasher, 5/16	MG-77A	1	BEARING, ABSORBENT BRONZE
8X-2843	2	Nut, Hex. 5/16-24	12X-196	2	Lockwasher, Int. Bearing Sc., #10
			X-2882	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
			X-2875	1	Nut, Cover Band, Square #10-32
			X-2881	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16

† BRUSH SET, SERVICE MAB-2012AS.

* As Required.

UNIT	APPLICATION
MCL-6011M	Owens Yacht

(Issued 10-4-49)

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

MCL-6013 STARTING MOTOR PARTS LIST

MCL-6013

Frame & Field Assembly & Parts Used With			Switch Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20A	2	Bolt, Thru	MAX-89L	1	Connector
(MCL-2031)	1	Frame & Field Assy.	SST-4004	1	Solenoid Switch
GK-38	4	Screw, Pole Shoe	8X-164	2	Nut, Hex. 5/16-18
MAB-30	1	Insulation, Field Connection	8X-173	1	Nut, Hex. #10-32
MAB-31	1	Washer, Ins., Term. Stud, Outer	12X-196	1	Lockwasher, #10
MAB-65	1	Terminal	12X-1014	2	Lockwasher, 5/16
MAB-85	1	Bushing, Ins., Term. Stud	8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
MAX-58	1	Equalizer	X-1270	2	Washer, Switch Mtg. Sc., Skpf. #10
MCJ-39	1	Washer, Ins., Term. Stud, Inner			
MCL-3005S	1	Field Coil Package			<u>Miscellaneous Parts</u>
MAX-64	2	Connector, Field Coil	EBA-52	1	Bendix Drive Assembly
MAX-1008	1	Coil, Field, L.R.	EBA-1213	1	Spring, Anti-Drift
MAX-1009	1	Coil, Field, L.L.	EBA-1225	1	Spring, Meshing
MCL-1007	1	Coil, Field, U.L.	EBA-1233	1	Ring, Retaining
MCL-1010	1	Coil, Field, U.R.	EBA-2006	1	Pin, Locating
MN-21	2	Pin, Dowel	EBA-2007	2	Plate, Spring Anchor
MU-37	1	Washer, Plain, Term. Stud	EBA-2008	1	Ring, Lock
MZ-12 †	2	Brush	EBA-2031	1	Screw Shaft
MZ-209	1	Stud, Terminal	EBA-2105	1	Spring, Drive
8X-164	2	Nut, Terminal Stud, Hex. 5/16-18	EBA-7632	1	Pinion
12X-1014	2	Lockwasher, Term. Stud, 5/16	MAW-24	1	Band, Cover
12X-199	2	Lockwasher, Thru Bolt, 1/4	MCJ-1040	1	Bearing Assy., Intermediate
			MAW-130	1	Bearing, Abs. Bronze
			PS-1287A	1	Housing Assy., Pinion
			MG-77A	1	Bearing, Abs. Bronze
			12X-196	2	Lockwasher, Int. Brg. Sc., #10
			8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
			8X-794	1	Nut, Cover Band, Square #10-32
			8X-1368	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
					† BRUSH SET, SERVICE MZ-2012AS.
					* Use as required.
					NOTE: Part numbers shown in parenthesis are not recommended for service.
Comm. End Head Assembly & Parts Used With					
MCJ-2030	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
MZ-1034S†	2	Brush, Grounded			
Armature Assembly & Parts Used With					
MCH-2021	1	Armature			
MU-54	*	Washer, Thrust, C.E. & D.E., 1/32" Thick			
MU-54A	*	Washer, Thrust, C.E. & D.E., 1/64" Thick			
MU-54B	*	Washer, Thrust, C.E. & D.E., 3/64" Thick			
X-261	1	Key, Woodruff, #6			

UNIT	APPLICATION
MCL-6013	Checker Cab

(Issued 8-2-50)

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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

MCL-6014 STARTING MOTOR PARTS LIST

MCL-6014
(Issued 11-19-52)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GJ-20A	2	Bolt, Thru
MCL-3031	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAB-30	1	Insulation, Field Connection
MAB-31	1	Washer, Ins., Term. Stud, Outer
MAB-65	1	Terminal
MAB-85	1	Bushing, Ins., Term. Stud
MAX-58	1	Equalizer
MCJ-39	1	Washer, Ins., Term. Stud, Inner
MCL-3005S	1	FIELD COIL PACKAGE
MAX-64	2	Connector, Field Coil
MAX-1008	1	Coil, Field, L.R.
MAX-1009	1	Coil, Field, L.L.
MCL-1007	1	Coil, Field, U.L.
MCL-1010	1	Coil, Field, U.R.
MN-21	2	Pin, Dowel
MU-37	1	Washer, Plain, Term. Stud
MZ-12 †	2	Brush
MZ-209	1	Stud, Terminal
8X-164	2	Nut, Term. Stud, Hex. 5/16-18
12X-1014	2	Lockwasher, Term. Stud, 5/16
12X-199	2	Lockwasher, Thru Bolt, 1/4

Comm. End Head Assembly & Parts Used With

MCJ-3002	1	Head Assy., Comm. End
MAD-110	1	Felt
MZ-19	4	Spring, Brush
MZ-1034S†	2	Brush, Grounded

Armature Assembly & Parts Used With

MCH-2021	1	ARMATURE
MU-54	*	Washer, Thrust, C.E. & Int., 1/32" Thick
MU-54A	*	Washer, Thrust, C.E. & Int., 1/64" Thick
MU-54B	*	Washer, Thrust, C.E. & Int., 3/64" Thick
X-261	1	Key, Woodruff, D.E. #6

Switch Assembly & Parts Used With

Part No.	No. Used	Name of Part
MAX-89R	1	Connector
SS-4001	1	SOLENOID STARTING SWITCH
8X-173	1	Nut, Hex. #10-32
12X-196	1	Lockwasher, #10
8X-832	2	Nut, Hex. 5/16-24
12X-1014	2	Lockwasher, 5/16
8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
X-1270	2	Washer, Switch Mtg. Sc., Skpf. #10

Miscellaneous Parts

EBA-80	1	BENDIX DRIVE ASSY.
EBA-513	1	Spring, Anti-Drift
EBA-525	1	Spring, Meshing
EBA-1233	1	Ring, Retaining
EBA-2006	1	Pin, Locating
EBA-2008	1	Ring, Lock
EBA-3307	2	Plate, Spring Anchor
EBA-3505	1	SPRING, DRIVE
EBA-4431	1	Screw Shaft
EBA-8032	1	Pinion
MAW-24	1	Band, Cover
MCJ-1040	1	BEARING ASSY., INTERMEDIATE
MAW-130	1	Bearing, Abs. Bronze
PS-1285	1	Housing Assy., Pinion
MG-77A	1	BEARING, ABSORBENT BRONZE
12X-196	2	Lockwasher, Int. Brg. Sc., #10
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32
8X-1368	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16

† BRUSH SET, SERVICE MZ-2012AS.

* Use as required.

UNIT	APPLICATION
MCL-6014	Nordberg Marine

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6015 STARTING MOTOR PARTS LIST

MCL-6015
(Issued 1-28-52)

Frame & Field Assembly & Parts Used With			Switch Assembly & Parts Used (Cont.)		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20A	2	Bolt, Thru	8X-832	2	Nut, Hex. 5/16-24
MCL-2031	1	Frame & Field Assy.	12X-1014	2	Lockwasher, 5/16
GK-38	4	Screw, Pole Shoe	8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
MAB-30	1	Insulation, Field Connection	X-1270	2	Washer, Switch Mtg. Sc., Skpf, #10
MAB-31	1	Washer, Ins., Term. Stud, Outer			
MAB-65	1	Terminal			
MAB-85	1	Bushing, Ins., Term. Stud			
MAX-58	1	Equalizer			
MCJ-39	1	Washer, Ins., Term. Stud, Inner			
MCL-3005S	1	FIELD COIL PACKAGE			
MAX-64	2	Connector, Field Coil			
MAX-1008	1	Coil, Field, L. R.			
MAX-1009	1	Coil, Field, L. L.			
MCL-1007	1	Coil, Field, U. L.			
MCL-1010	1	Coil, Field, U. R.			
MN-21	2	Pin, Dowel			
MU-37	1	Washer, Plain, Term. Stud			
MZ-12 †	2	Brush			
MZ-209	1	Stud, Terminal			
8X-164	2	Nut, Term. Stud, Hex. 5/16-18			
12X-1014	2	Lockwasher, Term. Stud, 5/16			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
Comm. End Head Assembly & Parts Used With			Miscellaneous Parts		
MCJ-2030	1	Head Assy., Comm. End	EBA-52	1	BENDIX DRIVE ASSEMBLY
MAD-110	1	Felt	EBA-1213	1	Spring, Anti-Drift
MZ-19	4	Spring, Brush	EBA-1225	1	Spring, Meshing
MZ-1034S†	2	Brush, Grounded	EBA-1233	1	Ring, Retaining
			EBA-2006	1	Pin, Locating
			EBA-2007	2	Plate, Spring Anchor
			EBA-2008	1	Ring, Lock
			EBA-2031	1	Shaft, Screw
			EBA-2105	1	SPRING, DRIVE
			EBA-7632	1	Pinion
			MAW-24	1	Band, Cover
			MCJ-1040	1	BEARING ASSY., INTERMEDIATE
			MAW-130	1	Bearing, Abs. Bronze
			PS-1285	1	Housing Assy., Pinion
			MG-77A	1	BEARING, ABS. BRONZE
			12X-196	2	Lockwasher, Int. Brg. Sc., #10
			8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
			8X-794	1	Nut, Cover Band, Square #10-32
			8X-1368	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
Armature Assembly & Parts Used With			† BRUSH SET, SERVICE MZ-2012AS.		
MCH-2021	1	ARMATURE	* Use as required.		
MU-54	*	Washer, Thrust, C. E. & D. E., 1/32" Thick			
MU-54A	*	Washer, Thrust, C. E. & D. E., 1/64" Thick			
MU-54B	*	Washer, Thrust, C. E. & D. E., 3/64" Thick			
X-261	1	Key, Woodruff, D. E., #6			
Switch Assembly & Parts Used With					
MAX-89R	1	Connector			
SS-4001	1	SOLENOID STARTING SWITCH			
8X-173	1	Nut, Hex. #10-32			
12X-196	1	Lockwasher, #10			

UNIT	APPLICATION
MCL-6015	Nordberg (Marine)

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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

MCL-6101 STARTING MOTOR PARTS LIST

MCL-6101
(Issued 3-24-52)

Frame & Field Assembly & Parts Used With			Switch Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru	MCH-63	1	Connector
MCL-2032	1	Frame & Field Assy.	SS-4707	1	SOLENOID STARTING SWITCH (See Separate List for Parts)
GK-38	4	Screw, Pole Shoe	12X-201	2	Lockwasher, Switch Term., 3/8
MAB-31A	1	Washer, Ins., Term. Stud, Outer	8X-467	4	Screw, Switch Mtg., Hex. Hd. 1/4-20x3/8
MAB-85	1	Bushing, Ins., Term. Stud	8X-830	1	Nut, Switch Term., Hex. 3/8-16
MAX-58	1	Equalizer	X-1272	4	Washer, Switch Mtg., Skpf. 1/4
MCH-13†	2	Brush, Grounded	<u>Clutch Assembly & Parts Used With</u>		
M CJ-39A	1	Washer, Ins., Term. Stud, Inner	MAX-71	1	Pin, Yoke
MCL-30	1	Insulation, Field Connection	MCH-58	2	Retainer, Yoke Spring
MCL-34	1	Stud, Terminal	MCH-62	1	Spring, Yoke
MCL-3005CS	1	FIELD COIL PACKAGE	MCH-76	1	Pin, Link
MAX-64	2	Connector, Field Coil	MCH-2056	1	Yoke
MAX-1008	1	Coil, Field, L. R.	MCL-3098A	1	CLUTCH, STARTER
MAX-1009	1	Coil, Field, L. L.	12X-201	1	Lockwasher, Yoke Pin, 3/8
MCL-1007F	1	Coil, Field, U. L.	X-401	1	Pin, Cotter, Link Pin, 1/16x3/8
MCL-1010F	1	Coil, Field, U. R.	8X-830	1	Nut, Yoke Pin, Hex. 3/8-16
MN-21	2	Pin, Dowel	<u>Miscellaneous Parts</u>		
MU-37	1	Washer, Plain, Term. Stud	MAW-24	1	Band, Cover
MZ-12†	2	Brush	MN-18	1	Washer, Thrust, D. E.
12X-196	2	Lockwasher, Ground Sc., #10	PS-1293A	1	Housing Assy., Pinion
8X-321	2	Screw, Ground, Rd. Hd. #10-32x5/16	MP-41A	1	BEARING, ABS. BRONZE
12X-1014	1	Lockwasher, Term. Stud, 5/16	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-2988	1	Nut, Term. Stud, Hex. 5/16-18	8X-794	1	Nut, Cover Band, Square #10-32
8X-164	1	Nut, Term. Stud, Hex. 5/16-18			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
12X-1014	1	Lockwasher, Terminal Stud, 5/16			
<u>Comm. End Head Assembly & Parts Used With</u>					
MCL-2030	1	Head Assy., Comm. End	† BRUSH SET, SERVICE MZ-2012BS.		
MAD-110	1	Felt	* Use as required.		
MZ-19	4	Spring, Brush			
<u>Armature Assembly & Parts Used With</u>					
MCH-2039	1	ARMATURE			
MU-54	*	Washer, Thrust, C. E., 1/32" Thick			
MU-54B	*	Washer, Thrust, C. E., 3/64" Thick			
MU-54K	*	Washer, Thrust, C. E., .080" Thick			

UNIT	APPLICATION
MCL-6101	Chrysler

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File in
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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6102 STARTING MOTOR PARTS LIST

MCL-6102
(Issued 3-24-52)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru
MCL-2038A	1	Frame & Field Assembly
GK-38	4	Screw, Pole Shoe
MAB-30	1	Insulation, Field Connection
MAW-37	1	Bushing, Ins., Term. Stud
MAX-49	1	Stud, Terminal
MAX-58	1	Equalizer
MCH-13†	2	Brush, Grounded
MCH-25A	1	Washer, Ins., Term. Stud
MCL-3005BS	1	FIELD COIL PACKAGE
MAX-64	2	Connector, Field Coil
MAX-1007	1	Coil, Field, U. L.
MAX-1008	1	Coil, Field, L. R.
MAX-1009	1	Coil, Field, L. L.
MCL-1010D	1	Coil, Field, U. R.
MN-21	2	Pin, Dowel
MZ-12†	2	Brush
SW-763S	1	Switch Contact Package
12X-196	2	Lockwasher, Brush Grd. Sc., #10
12X-201	1	Lockwasher, Term. Stud, 3/8
8X-321	2	Screw, Brush Grd., Rd. Hd. #10-32x5/16
8X-830	1	Nut, Term. Stud, Hex. 3/8-16
12X-199	2	Lockwasher, Thru Bolt, 1/4

Comm. End Head Assembly & Parts Used With

MCL-2030	1	Head Assy., Comm. End
MAD-110	1	Felt
MZ-19	4	Spring, Brush

Armature Assembly & Parts Used With

MCH-2039	1	ARMATURE
MU-54	*	Washer, Thrust, C. E., 1/32" Thick
MU-54B	*	Washer, Thrust, C. E., 3/64" Thick
MU-54K	*	Washer, Thrust, C. E., .080" Thick

Switch Assembly & Parts Used With

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

Clutch Assembly & Parts Used With

MAX-71	1	Pin, Yoke
MCH-58	2	Retainer, Yoke Spring
MCH-62	1	Spring, Yoke
MCH-2059	1	Yoke
MCL-3098A	1	STARTER CLUTCH
12X-201	1	Lockwasher, Yoke Pin, 3/8
8X-830	1	Nut, Yoke Pin, Hex. 3/8-16

Miscellaneous Parts

MAW-24	1	Band, Cover
MN-18	1	Washer, Thrust, D. E.
PS-1294A	1	Housing Assy., Pinion
MP-41A	1	BEARING, ABS. BRONZE
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32

† BRUSH SET, SERVICE MZ-2012BS.

* Use as Required.

UNIT	APPLICATION
MCL-6102	Dodge (Truck)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6103 STARTING MOTOR PARTS LIST

MCL-6103
(Issued 3-24-52)

<u>Frame & Field Assembly & Parts Used With</u>		
Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru
MCL-2038	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAB-30	1	Insulation, Field Connection
MAW-37	1	Bushing, Ins., Term. Stud
MAX-49	1	Stud, Terminal
MAX-58	1	Equalizer
MCH-13†	2	Brush, Grounded
MCH-25A	1	Washer, Ins., Term. Stud
MCL-3005BS	1	FIELD COIL PACKAGE
MAX-64	2	Connector, Field Coil
MAX-1007	1	Coil, Field, U. L.
MAX-1008	1	Coil, Field, L. R.
MAX-1009	1	Coil, Field, L. L.
MCL-1010D	1	Coil, Field, U. R.
MN-21	2	Pin, Dowel
MZ-12†	2	Brush, Insulated
SW-764S	1	Switch, Contact Package
12X-196	2	Lockwasher, Brush Grd. Sc., #10
12X-201	1	Lockwasher, Term. Stud, 3/8
8X-321	2	Screw, Brush Grd., Rd. Hd. #10-32x5/16
8X-830	1	Nut, Term. Stud, Hex. 3/8-16
12X-199	2	Lockwasher, Thru Bolt, 1/4

<u>Comm. End Head Assembly & Parts Used With</u>		
Part No.	No. Used	Name of Part
MCL-2030	1	Head Assy., Comm. End
MAD-110	1	Felt
MZ-19	4	Spring, Brush

<u>Armature Assembly & Parts Used With</u>		
Part No.	No. Used	Name of Part
MCH-2039	1	ARMATURE
MU-54	*	Washer, Thrust, C. E., 1/32" Thick
MU-54B	*	Washer, Thrust, C. E., 3/64" Thick
MU-54K	*	Washer, Thrust, C. E., .080" Thick

<u>Switch Assembly & Parts Used With</u>		
Part No.	No. Used	Name of Part
SW-2813	1	SWITCH, STARTER
12X-201	1	Lockwasher, 3/8
8X-830	1	Nut, Hex. 3/8-16
8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
X-1270	2	Washer, Sw. Mtg. Screw, Skpf. #10

<u>Clutch Assembly & Parts Used With</u>		
Part No.	No. Used	Name of Part
MAX-71	1	Pin, Yoke
MCH-58	2	Retainer, Yoke Spring
MCH-62	1	Spring, Yoke
MCH-2060	1	Yoke
MCL-3098A	1	STARTER CLUTCH
12X-201	1	Lockwasher, Yoke Pin, 3/8
8X-830	1	Nut, Yoke Pin, Hex. 3/8-16

<u>Miscellaneous Parts</u>		
Part No.	No. Used	Name of Part
MAW-24	1	Band, Cover
MN-18	1	Washer, Thrust, D. E.
PS-1294A	1	Housing Assy., Pinion
MP-41A	1	BEARING, ABS. BRONZE
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32

† BRUSH SET, SERVICE MZ-2012BS.

* Used as required.

UNIT	APPLICATION
MCL-6103	Dodge (Truck)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6104 STARTING MOTOR PARTS LIST

MCL-6104
(Issued 3-24-52)

Frame & Field Assembly & Parts Used With			Switch Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru	MBA-24	1	Gasket, Switch
MCL-3033	1	Frame & Field Assy.	MBA-31	1	Gasket, Switch
GK-38	4	Screw, Pole Shoe	MCL-44	1	Lever, Switch
MAB-30	1	Insulation, Field Connection	MZ-170	1	Pin, Switch Lever
MAB-85	1	Bushing, Ins., Term. Stud	SW-2916B	1	SWITCH, STARTING
MAK-80	1	Washer, Ins., Term. Stud, Inner	8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
MAX-58	1	Equalizer, .	X-1270	2	Washer, Switch Mtg., Sc., Skpf. #10
MAX-158	1	Stud, Terminal	X-1531	1	Pin, Cotter
MBA-21	1	Insulation, Sw. Contact	<u>Miscellaneous Parts</u>		
MBA-22	1	Contact, Switch	EB-99	1	BENDIX DRIVE ASSEMBLY
MCH-13†	2	Brush, Grounded	EB-108	2	Lockwasher
MCL-3005BS	1	FIELD COIL PACKAGE	EB-7805	1	SPRING, DRIVE
MAX-64	2	Connector, Field Coil	EB-7806	1	Screw, Spring, Head
MAX-1007	1	Coil, Field, U. L.	EB-7807	1	Screw, Spring, Shaft
MAX-1008	1	Coil, Field, L. R.	EB-7819S	1	Sleeve, Compression
MAX-1009	1	Coil, Field, L. L.	EB-8503	1	Head, Driving
MCL-1010D	1	Coil, Field, U. R.	EB-8734	1	Ring, Take-Up
MN-21	2	Pin, Dowel	EB-9911	1	Shaft & Pinion
MZ-12†	2	Brush	MAX-1024	1	Band, Cover
MZ-197	1	Insulation, Contact Sc.	MCH-1051	1	BEARING ASSY. INTERMEDIATE
8X-183A	1	Washer, Contact Sc., Plain #10	MCH-53	1	Bearing, Abs. Bronze
12X-196	3	Lockwasher, Brush Grd. & Contact Sc., #10	PS-1007C	1	Housing Assy., Pinion
8X-309	1	Screw, Sw. Contact, Rd. Hd. #10-32x1/2	MG-77A	1	BEARING, ABS. BRONZE
8X-321	2	Screw, Brush Grd., Rd. Hd. #10-32x5/16	12X-196	2	Lockwasher, Int. Brg. Sc., #10
8X-1376	1	Nut, Term. Stud, Hex. 5/16-24	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
12X-199	2	Lockwasher, Thru Bolt, 1/4	8X-794	1	Nut, Cover Band, Square #10-32
<u>Comm. End Head Assembly & Parts Used With</u>			8X-1368	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
MCL-3002	1	Head Assy., Comm. End	† BRUSH SET, SERVICE MZ-2012BS.		
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
<u>Armature Assembly & Parts Used With</u>					
MCH-2067	1	ARMATURE			
MU-54	2	Washer, Thrust, C. E. & Intermediate, 1/32" Thick			
X-261	1	Key, Woodruff, D. E., #6			

UNIT	APPLICATION
MCL-6104	Allis Chalmers

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6105 STARTING MOTOR PARTS LIST

MCL-6105

Frame & Field Assembly & Parts Used With			Switch Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru	MAX-89R	1	Connector
(MCL-2046)	1	Frame & Field Assembly	SST-4004	1	SOLENOID SWITCH
GK-38	4	Screw, Pole Shoe	8X-164	2	Nut, Hex. 5/16-18
MAB-30	1	Insulation, Field Connection	8X-173	1	Nut, Hex. #10-32
MAB-31A	1	Washer, Ins., Term. Stud, Outer	12X-196	1	Lockwasher, #10
MAB-85	1	Bushing, Ins., Term. Stud,	12X-1014	2	Lockwasher, 5/16
MAX-58	1	Equalizer	8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
MCH-13†	2	Brush, Grounded	X-1270	2	Washer, Switch Mtg. Sc., Skpf. #10
MCJ-39A	1	Washer, Ins., Term. Stud, Inner			
MCL-34	1	Stud, Terminal			<u>Miscellaneous Parts</u>
MCL-3005CS	1	FIELD COIL PACKAGE	EBA-2A	1	BENDIX DRIVE ASSY.
MAX-64	2	Connector, Field Coil	EB-108A	2	Lockwasher
MAX-1008	1	Coil, Field, L.R.	EB-7806A	1	Screw, Spring, Head
MAX-1009	1	Coil, Field, L.L.	EB-7807A	1	Screw, Spring, Shaft
MCL-1007F	1	Coil, Field, U.L.	EB-7819SA	1	Sleeve, Compression
MCL-1010F	1	Coil, Field, U.R.	EB-8503A	1	Head, Drive
MN-21	2	Pin, Dowel	EB-8705A	1	SPRING, DRIVE
MU-37	1	Washer, Plain, Term. Stud	EB-8734A	1	Ring, Take-Up
MZ-12†	2	Brush	EBA-211A	1	Shaft & Pinion
8X-164	2	Nut, Term. Stud, Hex. 5/16-18	MAW-24	1	Band, Cover
12X-196	2	Lockwasher, Ground Sc., #10	MCH-1051	1	BEARING ASSY., INTERMEDIATE
8X-321	2	Screw, Ground, Rd. Hd. #10-32x5/16	MCH-53	1	Bearing, Abs. Bronze
12X-1014	2	Lockwasher, Term. Stud, 5/16	PS-1297	1	Housing Assy., Pinion
12X-199	2	Lockwasher, Thru Bolt, 1/4	MG-77A	1	BEARING, ABS. BRONZE
			12X-196	2	Lockwasher, Int. Brg. Sc. #10
			8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
			8X-794	1	Nut, Cover Band, Square #10-32
			8X-1368	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
Comm. End Head Assembly & Parts Used With					
MCL-2030	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
Armature Assembly & Parts Used With					
MCH-2068	1	ARMATURE			
MU-54	2	Washer, Thrust, C.E. & Intermediate, 1/32" Thick			
X-261	1	Key, Woodruff, #6			

† BRUSH SET, SERVICE MZ-2012BS.

UNIT	APPLICATION
MCL-6105	Gray Marine

(Issued 4-18-50)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6105M STARTING MOTOR PARTS LIST

MCL-6105M

Frame & Field Assembly & Parts Used With			Switch Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20A	2	Bolt, Thru	MAX-89R	1	Connector
(MCL-2046A)	1	Frame & Field Assembly	SST-4005M	1	SOLENOID SWITCH
GK-38C	4	Screw, Pole Shoe	12X-196	1	Lockwasher, #10
MAB-30	1	Insulation, Field Connection	12X-1014	2	Lockwasher, 5/16
MAB-31A	1	Washer, Ins., Term. Stud, Outer	X-2853	1	Hex. Nut, #10-32
MAB-85A	1	Bushing, Ins., Term. Stud	X-2976	2	Hex. Nut, 5/16-18
MAX-58	1	Equalizer	X-20	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
MCH-13†	2	Brush, Grounded	X-1270	2	Washer, Switch Mtg. Sc., Skpf. #10
MCJ-39A	1	Washer, Ins., Term. Stud, Inner			<u>Miscellaneous Parts</u>
MCL-34	1	Stud, Terminal	EBA-2A	1	BENDIX DRIVE ASSY.
MCL-3005CS	1	FILED COIL PACKAGE	EB-108A	2	Lockwasher
MAX-64	2	Connector, Field Coil	EB-7806A	1	Screw, Spring, Head
MAX-1008	1	Coil, Field, L.R.	EB-7807A	1	Screw, Spring, Shaft
MAX-1009	1	Coil, Field, L.L.	EB-7819SA	1	Sleeve, Compression
MCL-1007F	1	Coil, Field, U.L.	EB-8503A	1	Head, Drive
MCL-1010F	1	Coil, Field, U.R.	EB-8705A	1	SPRING, DRIVE
MN-21A	2	Pin, Dowel	EB-8734A	1	Ring, Take-Up
MU-37G	1	Washer, Plain, Term. Stud	EBA-211A	1	Shaft & Pinion
MZ-12†	2	Brush	MAB-1024N	1	Band, Cover
X-20	2	Screw, Ground Rd. Hd. #10-32x5/16	MCH-1051A	1	BEARING ASSY., INTERMEDIATE
12X-196	2	Lockwasher, Ground Sc., #10	MCH-53	1	Bearing, Abs. Bronze
12X-1014	2	Lockwasher, Term. Stud, 5/16	PS-1297A	1	Housing Assy., Pinion
X-2976	2	Nut, Term. Stud, Hex. 5/16-18	MG-77A	1	BEARING, ABS. BRONZE
12X-199	2	Lockwasher, Thru Bolt, 1/4	12X-196	2	Lockwasher, Int. Brg. Sc. #10
			X-2875	1	Nut, Cover Band, Square #10-32
			X-2881	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
			X-2882	1	Screw, Cover Band, Fill. Hd. #10-32x1 1/2
<u>Comm. End Head Assembly & Parts Used With</u>					
MCL-2030A	1	Head Assy., Comm.. End			
MAD-110	1	Felt			
MZ-19A	4	Spring, Brush			
<u>Armature Assembly & Parts Used With</u>					
MCH-2068M	1	ARMATURE			
MU-54F	2	Washer, Thrust, C.E. & Intermediate, 1/32" Thick			
X-261	1	Key, Woodruff, #6			

† BRUSH SET, SERVICE MZ-2012BS.

UNIT	APPLICATION
MCL-6105M	Gray Marine

(Issued 4-19-50)

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6106 STARTING MOTOR PARTS LIST

MCL-6106
(Issued 10-6-50)

Frame & Field Assembly & Parts Used With			Switch Assembly & Parts (Continued)		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru	12X-196	1	Lockwasher, #10
(MCL-3046)	1	Frame & Field Assy.	12X-1014	2	Lockwasher, 5/16
GK-38	4	Screw, Pole Shoe	12X-196	2	Lockwasher, Switch Mtg. Sc., #10
MAB-30	1	Insulation, Field Connection	8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
MAB-31A	1	Washer, Ins., Term. Stud, Outer			
MAB-85	1	Bushing, Ins., Term. Stud			
MAX-58	1	Equalizer			
MCH-13†	2	Brush, Grounded			
MCJ-39A	1	Washer, Ins., Term. Stud, Inner			
MCL-34	1	Stud, Terminal			
MCL-3005CS	1	FIELD COIL PACKAGE			
MAX-64	2	Connector, Field Coil			
MAX-1008	1	Coil, Field, L.R.			
MAX-1009	1	Coil, Field, L.L.			
MCL-1007F	1	Coil, Field, U.L.			
MCL-1010F	1	Coil, Field, U.R.			
MN-21	2	Pin, Dowel			
MU-37	1	Washer, Plain, Term. Stud			
MZ-12 †	2	Brush			
8X-164	2	Nut, Term. Stud, Hex. 5/16-18			
12X-196	2	Lockwasher, Ground Screw, #10			
8X-321	2	Screw, Ground, Rd. Hd. #10-32x5/16			
12X-1014	2	Lockwasher, Term. Stud, 5/16			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
Comm. End Head Assembly & Parts Used With					
MCL-3002	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
Armature Assembly & Parts Used With					
MCH-2068	1	ARMATURE			
MU-54	2	Washer, Thrust, C.E. & Intermediate 1/32" Thick			
X-261	1	Key, Woodruff #6			
Switch Assembly & Parts Used With					
MAX-89R	1	Connector			
SST-4004	1	SOLENOID SWITCH			
8X-164	2	Nut, Hex. 5/16-18			
8X-173	1	Nut, Hex. #10-32			

Miscellaneous Parts		
Part No.	No. Used	Name of Part
EB-99A	1	BENDIX DRIVE ASSY.
EB-108A	2	Lockwasher
EB-7805A	1	SPRING, DRIVE
EB-7806A	1	Screw, Spring, Head
EB-7807A	1	Screw, Spring, Shaft
EB-7819SA	1	Sleeve, Compression
EB-8503A	1	Head, Drive
EB-8734A	1	Ring, Take Up
EB-9911A	1	Shaft & Pinion
MAW-24	1	Band, Cover
MCH-1051	1	BEARING ASSY., INTERMEDIATE
MCH-53	1	Bearing, Abs. Bronze
PS-1297	1	Housing Assy., Pinion
MG-77A	1	BEARING, ABS. BRONZE
12X-196	2	Lockwasher, Int. Brg. Sc., #10
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32
8X-1368	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16

† BRUSH SET, SERVICE MZ-2012BS.

UNIT	APPLICATION
MCL-6106	Gray Marine

Printed in U. S. A.

File in
Equipment & Parts List Binder

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6108 STARTING MOTOR PARTS LIST

MCL-6108

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru
(MCL-2047)	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAB-31A	1	Washer, Ins., Term. Stud, Outer
MAB-85	1	Bushing, Ins., Term. Stud
MAX-58	1	Equalizer
MCH-13†	2	Brush, Grounded
MCJ-39B	1	Washer, Ins., Term. Stud, Inner
MCL-30	1	Insulation, Field Connection
MCL-48	1	Stud, Terminal
MCL-3005CS	1	FIELD COIL PACKAGE
MAX-64	2	Connector, Field Coil
MAX-1008	1	Coil, Field, L.R.
MAX-1009	1	Coil, Field, L.L.
MCL-1007F	1	Coil, Field, U.L.
MCL-1010F	1	Coil, Field, U.R.
MN-21	2	Pin, Dowel
MU-37	1	Washer, Plain, Term. Stud, 5/16
MZ-12†	2	Brush
12X-196	2	Lockwasher, Ground Screw, #10
12X-200	2	Lockwasher, Term. Stud, 5/16
8X-321	2	Screw, Ground, Rd. Hd. #10-32x5/16
8X-2988	2	Nut, Term. Stud, Hex. 5/16-18
12X-199	2	Lockwasher, Thru Bolt, 1/4

Comm. End Head Assembly & Parts Used With

MCL-2030	1	Head Assy., Comm. End
MAD-110	1	Felt
MZ-19	4	Spring, Brush

Armature Assembly & Parts Used With

MCH-96	1	Washer, Thrust, Comm. End
MCH-2070	1	ARMATURE ASSY.
MCH-27	1	Spacer
MN-18	1	Washer, Thrust, D.E.
MU-54	*	Washer, Thrust, C.E., 1/32 Thick
MU-54B	*	Washer, Thrust, C.E., 3/64 Thick

Switch Assembly & Parts Used With

Part No.	No. Used	Name of Part
MCL-49	1	Connector
SSX-4101	1	SOLENOID SWITCH
12X-200	1	Lockwasher, Switch Term., 5/16
X-1272	4	Washer, Switch Mtg., Skpf. 1/4
8X-467	4	Screw, Switch Mtg., Hex. Hd. 1/4-20x3/8
8X-2988	1	Nut, Switch Term., Hex. 5/16-18

Clutch Assembly & Parts Used With

MCH-76	1	Pin, Link
MCH-77	1	Pin, Yoke
MCH-2074	1	Yoke
MCL-3075	1	CLUTCH, STARTER
X-401	1	Pin, Cotter, Link Pin, 1/16-38
X-406	1	Pin, Cotter, Yoke Pin, 3/32x1/2

Miscellaneous Parts

MCH-1024	1	Band, Cover
MCS-46	1	Retainer, Snap Ring
MCS-47	1	Ring, Snap
PS-1301	1	Housing Assy., Pinion
MP-41A	1	BEARING, ABS. BRONZE

† BRUSH SET, SERVICE MZ-2012BS.

* Use as Required.

UNIT	APPLICATION
MCL-6108	Chrysler (8)

(Issued 9-15-50)

Printed in U. S. A.

File in
Equipment & Parts List Binder

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



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6110 STARTING MOTOR PARTS LIST

MCL-6110

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru
(MCL-2113)	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAW-37	1	Bushing, Ins., Term. Stud
MAW-39	1	Insulation, Switch Contact
MAW-205	1	Insulation, Switch Contact
MAX-49	1	Stud, Terminal
MAX-58	1	Equalizer
MCH-13†	2	Brush, Grounded
MCH-25A	1	Washer, Ins., Term. Stud
MCL-30	1	Insulation, Field Connection
MCL-3005BS	1	FIELD COIL PACKAGE
MAX-64	2	Connector, Field Coil
MAX-1007	1	Coil, Field, U.L.
MAX-1008	1	Coil, Field, L.R.
MAX-1009	1	Coil, Field, L.L.
MCL-1010D	1	Coil, Field, U.R.
MN-21	2	Pin, Dowel
MZ-12†	2	Brush, Insulated
SW-763	1	Contact, Switch
12X-196	2	Lockwasher, Br. Ground Sc., #10
12X-201	1	Lockwasher, Term. Stud, 3/8
8X-321	2	Screw, Br. Ground, Rd. Hd. #10-32x5/16
8X-830	1	Nut, Term. Stud, Hex. 3/8-16
12X-199	2	Lockwasher, Thru Bolt, 1/4

Comm. End Head Assembly & Parts Used With

MCL-2030	1	Head Assy., Comm. End
MAD-110	1	Felt
MZ-19	4	Spring, Brush

Armature Assembly & Parts Used With

MCH-96	1	Washer, Thrust, Comm. End
MCH-2070	1	ARMATURE ASSY.
MCH-27	1	Spacer
MN-18	1	Washer, Thrust, C.E.
MU-54	*	Washer, Thrust, C.E., 1/32 Thick
MU-54B	*	Washer, Thrust, C.E., 3/64 Thick

Switch Assembly & Parts Used With

Part No.	No. Used	Name of Part
SW-2827	1	SWITCH, STARTING
12X-201	1	Lockwasher, 3/8
8X-830	1	Nut, Hex. 3/8-16
8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
X-1270	2	Washer, Switch Mtg. Sc., Skpf. #10

Clutch Assembly & Parts Used With

MCH-77	1	Pin, Yoke
MCH-2099	1	Yoke
MCL-3075	1	CLUTCH, STARTER
X-406	1	Pin, Cotter, Yoke Pin, 3/32x1/2

Miscellaneous Parts

MCH-1024	1	Band, Cover
MCS-46	1	Retainer, Snap Ring
MCS-47	1	Ring, Snap
PS-1302A	1	Housing Assy., Pinion
MP-41A	1	BEARING, ABS. BRONZE

† BRUSH SET, SERVICE MZ-2012BS.

* Use as Required.

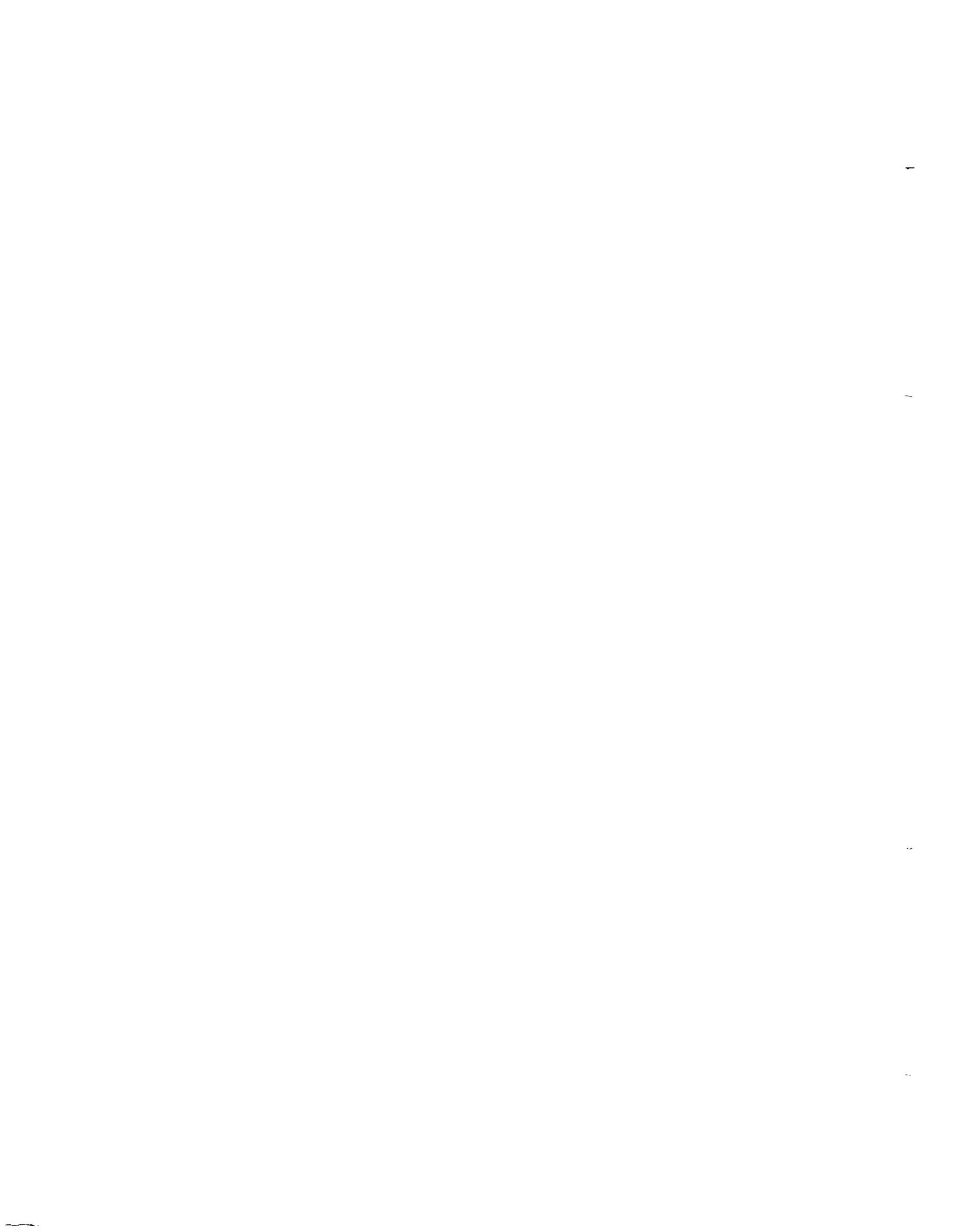
UNIT	APPLICATION
MCL-6110	Dodge Tr.
	De Soto Tr. - Export
	Fargo Tr.

(Issued 9-15-50)

Printed in U. S. A.

File in
Equipment & Parts List Binder

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



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6113 STARTING MOTOR PARTS LIST

MCL-6113

Frame & Field Assembly & Parts Used With			Switch Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru	MAX-89R	1	Connector
(MCL-2046B)	1	Frame & Field Assy.	SS-4017	1	SOLENOID SWITCH
GK-38	4	Screw, Pole Shoe	8X-173	1	#10-32 Hex. Nut
MAB-30	1	Insulation, Field Connection	12X-196	1	#10 Lockwasher
MAB-31A	1	Washer, Ins., Term. Stud, Outer	8X-832	2	5/16-24 Hex. Nut
MAB-85	1	Bushing, Ins., Term. Stud	12X-1014	2	5/16 Lockwasher
MAX-58	1	Equalizer	8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
MCH-13 †	2	Brush, Grounded	X-1737	2	Washer, Switch Mtg. Sc. Skpf. #10
M CJ-39B	1	Washer, Ins., Term. Stud, Inner			
MCL-48	1	Stud, Terminal			<u>Miscellaneous Parts</u>
MCL-3005CS	1	FIELD COIL PACKAGE	EBA-33	1	BENDIX DRIVE ASSY.
MAX-64	2	Connector, Field Coil	EBA-1213	1	Spring, Anti-Drift
MAX-1008	1	Coil, Field, L.R.	EBA-1225	1	Spring, Meshing
MAX-1009	1	Coil, Field, L.L.	EBA-1232	1	Pinion
MCL-1007F	1	Coil, Field, U.L.	EBA-1233	1	Ring, Retaining
MCL-1010F	1	Coil, Field, U.R.	EBA-2006	1	Pin, Locating
MN-21	2	Pin, Dowel	EBA-2007	2	Plate, Spring Anchor
MU-37	1	Washer, Plain, Term. Stud	EBA-2008	1	Ring, Lock
MZ-12 †	2	Brush	EBA-2031	1	Shaft
12X-196	2	Lockwasher, Ground Screw, #10	EBA-2105	1	SPRING, DRIVE
12X-200	2	Lockwasher, Term. Stud, 5/16	MCH-1024A	1	Band, Cover
8X-321	2	Screw, Ground, Rd. Hd. #10-32x5/16	MCH-1051	1	BEARING ASSY., INTERMEDIATE
8X-2988	2	Nut, Term. Stud, Hex. 5/16-18	MCH-53	1	Bearing, Abs. Bronze
12X-199	2	Lockwasher, Thru Bolt, 1/4	PS-1307	1	Housing Assy., Pinion
			MG-77A	1	BEARING, ABS. BRONZE
			12X-196	2	Lockwasher, Int. Brg. Sc., #10
			8X-1368	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
<u>Comm. End Head Assembly & Parts Used With</u>					
MCL-2030B	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
<u>Armature Assembly & Parts Used With</u>					
MCH-2028	1	ARMATURE			
MU-54	*	Washer, Thrust, 1/32" Thick			
MU-54B	*	Washer, Thrust, 3/64" Thick			
X-261	1	Key, Woodruff, #6			

† BRUSH SET, SERVICE MZ-2012BS.

* Use as required.

UNIT	APPLICATION
MCL-6113	Packard 8

(Issued 8-25-50)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6114 STARTING MOTOR PARTS LIST

MCL-6114
(Issued 11-27-50)

Frame & Field Assembly & Parts Used With			Switch Assembly & Parts Used With						
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part				
GJ-20	2	Bolt, Thru	MCL-50	1	Connector				
(MCL-2047)	1	Frame & Field Assy.	SSX-4102	1	SOLENOID STARTING SWITCH (See separate list for parts)				
GK-38	4	Screw, Pole Shoe	12X-200	1	Lockwasher, Switch Term., 5/16				
MAB-31A	1	Washer, Inns., Term. Stud, Outer	8X-467	4	Screw, Switch Mtg., Hex. Hd. 1/4-20x3/8				
MAB-85	1	Bushing, Ins., Term. Stud	X-1272	4	Washer, Switch Mtg. Skpf. 1/4				
MAX-58	1	Equalizer	8X-2988	1	Nut, Switch Term., Hex. 5/16-18				
MCH-13†	2	Brush, Grounded	<u>Clutch Assembly & Parts Used With</u>						
MCJ-39B	1	Washer, Ins., Term. Stud, Inner	MCH-76	1	Pin, Link				
MCL-30	1	Insulation, Field Connection	MCH-77	1	Pin, Yoke				
MCL-48	1	Stud, Terminal	MCH-2074	1	Yoke				
MCL-3005CS	1	FIELD COIL PACKAGE	MCL-3161	1	CLUTCH, STARTER				
MAX-64	2	Connector, Field Coil	X-401	1	Pin, Cotter, Link, Pin, 1/16x3/8				
MAX-1008	1	Coil, Field, L.R.	X-406	1	Pin, Cotter, Yoke Pin, 3/32x1/2				
MAX-1009	1	Coil, Field, L.L.	<u>Miscellaneous Parts</u>						
MCL-1007F	1	Coil, Field, U.L.	MCH-1024	1	Band, Cover				
MCL-1010F	1	Coil, Field, U.R.	MCS-46	1	Retainer, Snap Ring				
MN-21	2	Pin, Dowel	MCS-47	1	Ring, Snap				
MU-37	1	Washer, Plain, Term. Stud, 5/16	PS-1308	1	Housing Assy., Pinion				
MZ-12 †	2	Brush	MP-41A	1	BEARING, ABS. BRONZE				
12X-196	2	Lockwasher, Ground Sc., #10	<u>† BRUSH SET, SERVICE MZ-2012BS.</u>						
12X-200	2	Lockwasher, Term. Stud, 5/16	<u>* Use as required.</u>						
8X-321	2	Screw, Ground, Rd. Hd. #10-32x5/16	<u>Comm. End Head Assembly & Parts Used With</u>						
8X-2988	2	Nut, Term. Stud, Hex. 5/16-18	MCL-2030	1	Head Assy., Comm. End				
12X-199	2	Lockwasher, Thru Bolt, 1/4	MAD-110	1	Felt				
<u>Comm. End Head Assembly & Parts Used With</u>			MZ-19	4	Spring, Brush				
MCL-2030	1	Head Assy., Comm. End	<u>Armature Assembly & Parts Used With</u>						
MAD-110	1	Felt	MCH-96	1	Washer, Thrust, Comm. End				
MZ-19	4	Spring, Brush	MCH-2070	1	ARMATURE				
<u>Armature Assembly & Parts Used With</u>			MCH-27	1	Spacer				
MCH-96	1	Washer, Thrust, Comm. End	MN-18	1	Washer, Thrust, D.E.				
MCH-2070	1	ARMATURE	MU-54	*	Washer, Thrust, C.E., 1/32" Thick				
MCH-27	1	Spacer	MU-54B	*	Washer, Thrust, C.E., 3/64" Thick				
MN-18	1	Washer, Thrust, D.E.	<table border="1" style="width: 100%; border-collapse: collapse; margin-top: 20px;"> <tr> <td style="text-align: center;">UNIT</td> <td style="text-align: center;">APPLICATION</td> </tr> <tr> <td style="text-align: center;">MCL-6114</td> <td style="text-align: center;">Packard</td> </tr> </table>			UNIT	APPLICATION	MCL-6114	Packard
UNIT	APPLICATION								
MCL-6114	Packard								
MU-54	*	Washer, Thrust, C.E., 1/32" Thick							
MU-54B	*	Washer, Thrust, C.E., 3/64" Thick							

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6115 STARTING MOTOR PARTS LIST

MCL-6115

(Issued 10-3-55)

<u>Frame & Field Assembly & Parts Used With</u>		
Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru
MCL-2114A	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAB-31A	1	Washer, Ins., Term. Stud, Outer
MAB-85	1	Bushing, Ins., Term. Stud
MAX-58	1	Equalizer
MCH-13 †	2	Brush, Grounded
MCJ-39B	1	Washer, Ins., Term. Stud, Inner
MCL-30	1	Insulation, Field Connection
MCL-48	1	Stud, Terminal
MCL-3005CS	1	FIELD COIL PACKAGE
MAX-64	2	Connector, Field Coil
MAX-1008	1	Coil, Field, L. R.
MAX-1009	1	Coil, Field, L. L.
MCL-1007F	1	Coil, Field, U. L.
MCL-1010F	1	Coil, Field, U. R.
MN-21	2	Pin, Dowel
MU-37	1	Washer, Plain, Term. Stud, 5/16
MZ-12 †	2	Brush
12X-196	2	Lockwasher, Ground Screw, #10
12X-200	2	Lockwasher, Term. Stud, 5/16
8X-321	2	Screw, Ground, Rd. Hd. #10-32x5/16
8X-2988	2	Nut, Term. Stud, Hex. 5/16-18
12X-199	2	Lockwasher, Thru Bolt, 1/4

<u>Comm. End Head Assembly & Parts Used With</u>		
Part No.	No. Used	Name of Part
MCL-2030	1	Head Assy., Comm. End
MAD-110	1	Felt
MZ-19	4	Spring, Brush

<u>Armature Assembly & Parts Used With</u>		
Part No.	No. Used	Name of Part
MCH-96	1	Washer, Thrust, Comm. End
MCH-2070	1	ARMATURE ASSY.
MCH-27	1	Spacer
MN-18	1	Washer, Thrust, D. E.
MU-54	*	Washer, Thrust, C. E., 1/32" Thick
MU-54B	*	Washer, Thrust, C. E., 3/64" Thick

<u>Switch Assembly & Parts Used With</u>		
Part No.	No. Used	Name of Part
MCH-90	1	Connector
SSX-4103	1	SOLENOID STARTING SWITCH (See separate list for parts)
12X-199	4	Lockwasher, Switch Mtg. Sc., 1/4
12X-200	1	Lockwasher, Switch Term., 5/16
8X-467	4	Screw, Switch Mtg., Hex. Hd. 1/4-20x3/8
8X-2988	1	Nut, Switch Term., Hex. 5/16-18

Clutch Assembly & Parts Used With

MCH-76	1	Pin, Link
MCH-77	1	Pin, Yoke
MCH-2074	1	Yoke
MCL-3075	1	CLUTCH, STARTER
X-401	1	Pin, Cotter, Link Pin, 1/16x3/8
X-406	1	Pin, Cotter, Yoke Pin, 3/32x1/2

Miscellaneous Parts

MCH-1024	1	Band, Cover
MCS-46	1	Retainer & Pinion Stop
MCS-47A	1	Ring, Snap, Retainer & Pinion Stop
PS-1309A	1	Housing Assy., Pinion
MP-41A	1	BEARING, ABS. BRONZE

† BRUSH SET, SERVICE MZ-2012BS.

* Use as required.

UNIT	APPLICATION
MCL-6115	Chrysler Ind.

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6116 STARTING MOTOR PARTS LIST

MCL-6116
(Issued 11-29-51)

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
GJ-20	2	Bolt, Thru	MCL-51	1	Connector
(MCL-2115)	1	Frame & Field Assy.	SSX-4002	1	SOLENOID STARTING SWITCH (See separate list for parts.)
GK-38	4	Screw, Pole Shoe	12X-199	4	Lockwasher, Switch Mtg. Sc., 1/4
MAB-31A	1	Washer, Ins., Term. Stud, Outer	12X-200	1	Lockwasher, Switch Term., 5/16
MAB-85	1	Bushing, Ins., Term. Stud	8X-467	4	Screw, Switch Mtg., Hex. Hd. 1/4-20x3/8
MAX-58	1	Equalizer	8X-2988	1	Nut, Switch Term., Hex. 5/16-18
MAX-1008	2	Brush, Grounded	<u>Clutch Assembly & Parts Used With</u>		
MCH-13†	1	Washer, Ins., Term. Stud, Inner	MCH-76	1	Pin, Link
MCJ-39B	1	Insulation, Field Connection Stud, Terminal	MCH-77	1	Pin, Yoke
MCL-30	1	FIELD COIL PACKAGE	MCH-2074B	1	Yoke
MCL-48	1	Connector, Field Coil	MCL-3075	1	CLUTCH, STARTER
MCL-3005CS	1	Coil, Field, L.R.	X-401	1	Pin, Cotter, Link Pin, 1/16x3/8
MAX-64	1	Coil, Field, L.L.	X-406	1	Pin, Cotter, Yoke Pin, 3/32x1/2
MAX-1009	1	Coil, Field, U.L.	Miscellaneous Parts		
MCL-1007F	1	Coil, Field, U.R.	MCH-1024	1	Band, Cover
MCL-1010F	1	Pin, Dowel	MCS-46	1	Retainer, Snap Ring
MN-21	2	Washer, Plain, Term. Stud, 5/16	MCS-47	1	Ring, Snap
MU-37	1	Brush	PS-1301	1	Housing Assy., Pinion
MZ-12†	2	Lockwasher, Ground Screw, #10	MP-41A	1	BEARING, ABS. BRONZE
12X-196	2	Lockwasher, Term. Stud, 5/16	† BRUSH SET, SERVICE MZ-2012BS.		
12X-200	2	Screw, Ground, Rd. Hd. #10-32x5/16	* Use as required.		
8X-321	2	Nut, Term. Stud, Hex. 5/16-18			
8X-2988	2	Lockwasher, Thru Bolt, 1/4			
12X-199	2	Head Assy., Comm. End			
<u>Comm. End Head Assembly & Parts Used With</u>					
MCL-2030	1	Felt			
MAD-110	1	Spring, Brush			
MZ-19	4	ARMATURE ASSY.			
<u>Armature Assembly & Parts Used With</u>					
MCH-96	1	Spacer			
MCH-2070	1	Washer, Thrust, Comm. End			
MCH-27	1	Washer, Thrust, D.E.			
MN-18	1	Washer, Thrust, C.E., 1/32" Thick			
MU-54	*	Washer, Thrust, C.E., 3/64" Thick			
MU-54B	*	Washer, Thrust, C.E., 3/64" Thick			

UNIT	APPLICATION
MCL-6116	De Soto

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6117 STARTING MOTOR PARTS LIST

MCL-6117
(Issued 11-29-51)

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
GJ-20	2	Bolt, Thru	SS-93L	1	Connector
(MCL-2114A)	1	Frame & Field Assy.	SSX-4003	1	SOLENOID STARTING SWITCH (See separate list for parts.)
GK-38	4	Screw, Pole Shoe	12X-199	4	Lockwasher, Switch Mtg. Sc., 1/4
MAB-31A	1	Washer, Ins., Term. Stud, Outer	12X-200	1	Lockwasher, Switch Term., 5/16
MAB-85	1	Bushing, Ins., Term. Stud,	8X-467	4	Screw, Switch Mtg., Hex. Hd. 1/4-20x3/8
MAX-58	1	Equalizer	8X-2988	1	Nut, Switch Term., Hex. 5/16-18
MCH-13 †	2	Brush, Grounded	<u>Clutch Assembly & Parts Used With</u>		
M CJ-39B	1	Washer, Ins., Term. Stud, Inner	MCH-76	1	Pin, Link
MCL-30	1	Insulation, Field Connection	MCH-77	1	Pin, Yoke
MCL-48	1	Stud, Terminal	MCH-2074	1	Yoke
MCL-3005CS	1	FIELD COIL PACKAGE	MCL-3075	1	CLUTCH, STARTER
MAX-64	2	Connector, Field Coil	X-401	1	Pin, Cotter, Link Pin, 1/16x3/8
MAX-1008	1	Coil, Field, L.R.	X-406	1	Pin, Cotter, Yoke Pin, 3/32x1/2
MAX-1009	1	Coil, Field, L.L.	<u>Miscellaneous Parts</u>		
MCL-1007F	1	Coil, Field, U.L.	MCH-1024	1	Band, Cover
MCL-1010F	1	Coil, Field, U.R.	MCS-46	1	Retainer, Snap Ring
MN-21	2	Pin, Dowel	MCS-47	1	Ring, Snap
MU-37	1	Washer, Plain, Term. Stud, 5/16	PS-1309A	1	Housing Assy., Pinion
MZ-12†	2	Brush	MP-41A	1	Bearing, Abs. Bronze
12X-196	2	Lockwasher, Ground Screw, #10	† BRUSH SET, SERVICE MZ-2012BS.		
12X-200	2	Lockwasher, Term. Stud, 5/16	* Use as required.		
8X-321	2	Screw, Ground, Rd. Hd. #10-32x5/16			
8X-2988	2	Nut, Term. Stud, Hex. 5/16-18			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
<u>Comm. End Head Assembly & Parts Used With</u>					
MCL-2030	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			
<u>Armature Assembly & Parts Used With</u>					
MCH-96	1	Washer, Thrust, Comm. End			
MCH-2070	1	ARMATURE ASSY.			
MCH-27	1	Spacer			
MN-18	1	Washer, Thrust, D.E.			
MU-54	*	Washer, Thrust, C.E., 1/32" Thick			
MU-54B	*	Washer, Thrust, C.E., 3/64" Thick			

UNIT	APPLICATION
MCL-6117	De Soto

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6120 STARTING MOTOR PARTS LIST

MCL-6120
(Issued 9-13-54)

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
GJ-20	2	Bolt, Thru	MCL-2030	1	Head Assy., Comm. End
MCL-2117	1	Frame & Field Assembly	MAD-110	1	Felt
GK-38	4	Screw, Pole Shoe	MZ-19	4	Spring, Brush
MAB-30	1	Insulation, Field Connection	<u>Armature Assembly & Parts Used With</u>		
MAB-31A	1	Washer, Ins., Term. Stud	MAK-54	1	Washer, Thrust, D. E., 1/32" Thick
MAB-85	1	Bushing, Ins., Term. Stud	MCH-2075	1	ARMATURE ASSEMBLY
MAX-58	1	Equalizer	MU-54	1	Washer, Thrust, C. E., 1/32" Thick
MCH-13†	2	Brush, Grounded	8X-157	1	Nut, Shaft, D. E., Slotted 1/2-20
MCJ-39A	1	Washer, Ins., Term. Stud	8X-358	1	Washer, Shaft, D. E., Plain 1/2
MCL-34	1	Stud, Terminal	8X-1530	1	Pin, Cotter, Shaft
MCL-3005CS	1	FIELD COIL PACKAGE	<u>Miscellaneous Parts</u>		
MAX-64	2	Connector, Field Coil	MAW-24	1	Band, Cover
MAX-1008	1	Coil, Field, L. R.	MCL-1052	1	Head Assy., Drive End
MAX-1009	1	Coil, Field, L. L.	MAK-39	1	BEARING, ABS. BRONZE
MCL-1007F	1	Coil, Field, U. L.	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MCL-1010F	1	Coil, Field, U. R.	8X-794	1	Nut, Cover Band, Square #10-32
MN-21	2	Pin, Dowel	† BRUSH SET, SERVICE MZ-2012BS.		
MU-37	1	Washer, Plain, Term. Stud			
MZ-12†	2	Brush			
8X-164	2	Nut, Term. Stud, Hex. 5/16-18			
12X-196	2	Lockwasher, Brush Ground Screw, #10			
8X-321	2	Screw, Brush Ground, Rd. Hd. #10-32x5/16			
12X-1014	2	Lockwasher, Term. Stud, 5/16			
12X-199	2	Lockwasher, Thru Bolt, 1/4			

UNIT	APPLICATION
MCL-6120	Fairmount Railway Mtrs.

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6121 STARTING MOTOR PARTS LIST

MCL-6121
(Issued 10-7-52)

Frame & Field Assembly & Parts Used With			Switch Assembly & Parts Used (Cont.)						
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part				
GJ-20	2	Bolt, Thru	SS-60	1	Washer, Steel, 3/8				
MCL-2115	1	Frame & Field Assy.	SSX-21	1	Core, Moving				
GK-38	4	Screw, Pole Shoe	SSX-22	1	Link Screw				
MAB-31A	1	Washer, Ins., Term. Stud, Outer	SSX-35	1	Spring				
MAB-85	1	Bushing, Ins., Term. Stud	SSX-1023	1	Clamp Assy.				
MAX-58	1	Equalizer	8X-53	1	Screw, Rd. Hd. #8-32x5/8				
MCH-13†	2	Brush, Grounded	8X-141	1	Nut, Hex. #8-32				
MCJ-39B	1	Washer, Ins., Term. Stud, Inner	SSX-4004	1	SOLENOID STARTING SWITCH (See Separate List for Parts)				
MCL-30	1	Insulation, Field Connector	12X-199	4	Lockwasher, Switch Mtg. Sc., 1/4				
MCL-48	1	Stud, Terminal	12X-200	1	Lockwasher, Switch Term., 5/16				
MCL-3005CS	1	FIELD COIL PACKAGE	8X-467	4	Screw, Switch Mtg., Hex. Hd. 1/4-20x3/8				
MAX-64	2	Connector, Field Coil	8X-2988	1	Nut, Switch Term., Hex. 5/16-18				
MAX-1008	1	Coil, Field, L. R.	<u>Clutch Assembly & Parts Used With</u>						
MAX-1009	1	Coil, Field, L. L.	MCH-76	1	Pin, Link				
MCL-1007F	1	Coil, Field, U. L.	MCH-2074C	1	Yoke				
MCL-1010F	1	Coil, Field, U. R.	MCL-54	1	Pin, Yoke				
MN-21	2	Pin, Dowel	MCL-56	1	Clamp, Yoke Cover				
MU-37	1	Washer, Plain, Term. Stud, 5/16	MCL-57	1	Cover, Yoke				
MZ-12 †	2	Brush	MCL-3075	1	CLUTCH, STARTER				
12X-196	2	Lockwasher, Ground Sc., #10	X-401	1	Pin, Cotter, Link Pin, 1/16x3/8				
12X-200	2	Lockwasher, Term. Stud, 5/16	X-406	1	Pin, Cotter, Yoke Pin, 3/32x1/2				
8X-321	2	Screw, Ground, Rd. Hd. #10-32x5/16	<u>Miscellaneous Parts</u>						
8X-2988	2	Nut, Term. Stud, Hex. 5/16-18	MCH-1024	1	Band, Cover				
12X-199	2	Lockwasher, Thru Bolt, 1/4	MCL-53	1	Plate, Intermediate				
<u>Comm. End Head Assembly & Parts Used With</u>			MCS-46	1	Retainer, Snap Ring				
MCL-2030	1	Head Assy., Comm. End	MCS-47	1	Ring, Snap				
MAD-110	1	Felt	PS-1316	1	Housing Assy., Pinion				
MZ-19	4	Spring, Brush	MP-41A	1	BEARING, ABS. BRONZE				
<u>Armature Assembly & Parts Used With</u>			12X-196	2	Lockwasher, Interm. Plate Sc., #10				
MCH-96	1	Washer, Thrust, Comm. End	8X-311	2	Screw, Interm. Plate, Rd. Hd. #10-32x3/8				
MCH-2110	1	ARMATURE	† BRUSH SET, SERVICE MZ-2012BS.						
MN-18	1	Washer, Thrust, D. E.	* Use as required.						
MU-54	*	Washer, Thrust, C. E. 1/32" Thick	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">UNIT</th> <th style="text-align: center;">APPLICATION</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">MCL-6121</td> <td style="text-align: center;">Chrysler (8)</td> </tr> </tbody> </table>			UNIT	APPLICATION	MCL-6121	Chrysler (8)
UNIT	APPLICATION								
MCL-6121	Chrysler (8)								
MU-54B	*	Washer, Thrust, C. E., 3/64" Thick							
<u>Switch Assembly & Parts Used With</u>									
MCL-51	1	Connector							
SSX-34	1	Spring							
SSX-36	1	Plug							
SSX-1021B	1	Moving Core Assy.							

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6121A STARTING MOTOR PARTS LIST

MCL-6121A
(Issued 10-29-53)

Frame & Field Assembly & Parts Used With			Switch Assembly & Parts Used (Cont.)						
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part				
GJ-20	2	Bolt, Thru	SSX-1023	1	Clamp Assembly				
MCL-2115	1	Frame & Field Assembly	8X-53	1	Screw, Rd. Hd. #8-32x5/8				
GK-38	4	Screw, Pole Shoe	8X-141	1	Nut, Hex. #8-32				
MAB-31A	1	Washer, Ins., Term. Stud, Outer	SSX-4004	1	SOLENOID STARTING SWITCH (See Separate List for Parts)				
MAB-85	1	Bushing, Ins., Term. Stud	12X-199	4	Lockwasher, Sw. Mtg. Screw, 1/4				
MAX-58	1	Equalizer	12X-200	1	Lockwasher, Switch Term. 5/16				
MCH-13†	2	Brush, Grounded	8X-467	4	Screw, Sw. Mtg., Hex. Hd. 1/4-20x3/8				
MCJ-39B	1	Washer, Ins., Term. Stud, Inner	8X-2988	1	Nut, Switch Term., Hex. 5/16-18				
MCL-30	1	Insulation, Field Connection	<u>Clutch Assembly & Parts Used With</u>						
MCL-48	1	Stud, Terminal	MCH-76	1	Pin, Link				
MCL-3005CS	1	FIELD COIL PACKAGE	MCH-2074C	1	Yoke				
MAX-64	2	Connector, Field Coil	MCL-58	1	Pin, Yoke				
MAX-1008	1	Coil, Field, L. R.	MCL-59	1	Clamp, Yoke Cover				
MAX-1009	1	Coil, Field, L. L.	MCL-60	1	Cover, Yoke				
MCL-1007F	1	Coil, Field, U. L.	MCL-3075	1	CLUTCH, STARTER				
MCL-1010F	1	Coil, Field, U. R.	X-401	1	Pin, Cotter, Link Pin, 1/16x3/8				
MN-21	2	Pin, Dowel	<u>Miscellaneous Parts</u>						
MU-37	1	Washer, Plain, Term. Stud	MCH-1024	1	Band, Cover				
MZ-12†	2	Brush	MCL-53	1	Plate, Intermediate				
12X-196	2	Lockwasher, Brush Ground Screw, #10	MCS-46	1	Retainer, Snap Ring				
12X-200	2	Lockwasher, Term. Stud, 5/16	MCS-47A	1	Ring, Snap				
8X-321	2	Screw, Brush Ground, Rd. Hd. #10-32x5/16	PS-1316	1	Housing Assy., Pinion				
8X-2988	2	Nut, Term. Stud, Hex. 5/16-13	MP-41A	1	BEARING, ABS. BRONZE				
12X-199	2	Lockwasher, Thru Bolt, 1/4	12X-196	2	Lockwasher, Int. Plate Screw, #10				
<u>Comm. End Head Assembly & Parts Used With</u>			8X-311	2	Screw, Inter. Plate, Rd. Hd. #10-32x3/8				
MCL-2030	1	Head Assy., Comm. End	† BRUSH SET, SERVICE MZ-2012BS.						
MAD-110	1	Felt	* Used as required.						
MZ-19	4	Spring, Brush	<table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="padding: 5px;">UNIT</th> <th style="padding: 5px;">APPLICATION</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">MCL-6121A</td> <td style="padding: 5px;">Chrysler 8</td> </tr> </tbody> </table>			UNIT	APPLICATION	MCL-6121A	Chrysler 8
UNIT	APPLICATION								
MCL-6121A	Chrysler 8								
<u>Armature Assembly & Parts Used With</u>									
MCH-96	1	Washer, Thrust, Comm. End							
MCH-2110	1	ARMATURE							
MN-18	1	Washer, Thrust, D. E.							
MU-54	*	Washer, Thrust, C. E., 1/32" Thick							
MU-54B	*	Washer, Thrust, C. E., 3/64" Thick							
<u>Switch Assembly & Parts Used With</u>									
MCL-51	1	Connector							
SSX-34	1	Spring							
SSX-36	1	Plug							
SSX-1021B	1	Moving Core Assembly							
SS-60	1	Washer, Steel, 3/8							
SSX-21	1	Core, Moving							
SSX-22	1	Link Screw							
SSX-35	1	Spring							

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