

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6122 STARTING MOTOR PARTS LIST

MCL-6122
(Issued 10-29-52)

<u>Frame & Field Assembly & Parts Used With</u>		
Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru
MCL-2046B	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAB-30	1	Insulation, Field Connection
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-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
MZ-12 †	2	Brush
12X-196	2	Lockwasher, Ground Sc., #10
12X-200	1	Lockwasher, Term. Stud, 5/16
8X-321	2	Screw, Ground, Rd. Hd. #10-32x5/16
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>		
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, C. E. & Interm., 1/32" Thick
MU-54B	*	Washer, Thrust, C. E. & Interm., 3/64" Thick
X-261	1	Key, Woodruff, D. E., #6

<u>Switch Assembly & Parts Used With</u>		
Part No.	No. Used	Name of Part
MAX-89R	1	Connector, Switch to Motor
SS-4017	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-1737	2	Washer, Switch Mtg. Sc., Skpf. #10

Miscellaneous Parts

EBB-19	1	BENDIX DRIVE
MCH-1024A	1	Band, Cover
MCH-1051	1	BEARING ASSY., INTERMEDIATE
MCH-53	1	Bearing, Abs. Bronze
PS-1307	1	Housing Assy., Pinion
MG-77A	1	BEARING, ABS. BRONZE
12X-196	2	Lockwasher, Int. Bearing Sc., #10
8X-1368	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16

† BRUSH SET, SERVICE MZ-2012BS.

* Use as required.

UNIT	APPLICATION
MCL-6122	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

MCL-6124 STARTING MOTOR PARTS LIST

MCL-6124
(Issued 9-3-53)

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-20	2	Bolt, Thru	MCL-51	1	Connector
MCL-2115	1	Frame & Field Assembly	SSX-34	1	Spring
GK-38	4	Screw, Pole Shoe	SSX-36	1	Plug
MAB-31A	1	Washer, Ins. , Term. Stud, Outer	SSX-1021B	1	Moving Core Assembly
MAB-85	1	Bushing, Ins. , Term. Stud	SS-60	1	Washer, Steel, 3/8
MAX-58	1	Equalizer	SSX-21	1	Core, Moving
MCH-13†	2	Brush, Grounded	SSX-22	1	Link Screw
MCJ-39B	1	Washer, Ins. , Term. Stud, Inner	SSX-35	1	Spring
MCL-30	1	Insulation, Field Connection	SSX-1023	1	Clamp Assembly
MCL-48	1	Stud, Terminal	8X-53	1	Screw, Rd. Hd. #8-32x5/8
MCL-3005CS	1	Field Coil Package	8X-141	1	Nut, Hex. #8-32
MAX-64	2	Connector, Field Coil	SSX-4004	1	Solenoid Starting Switch (See Separate List for Parts)
MAX-1008	1	Coil, Field, L. R.	12X-199	4	Lockwasher, Switch Mtg. Sc. , 1/4
MAX-1009	1	Coil, Field, L. L.	12X-200	1	Lockwasher, Switch Term. , 5/16
MCL-1007F	1	Coil, Field, U. L.	8X-467	4	Screw, Switch Mtg. , Hex. Hd. 1/4-20x3/8
MCL-1010F	1	Coil, Field, U. R.	8X-2988	1	Nut, Switch Term. , Hex. 5/16-18
MN-21	2	Pin, Dowel	<u>Clutch Assembly & Parts Used With</u>		
MU-37	1	Washer, Plain, Term. Stud	MCH-76	1	Pin, Link
MZ-12†	2	Brush	MCH-2074C	1	Yoke
12X-196	2	Lockwasher, Brush Ground Sc. , #10	MCL-58	1	Pin, Yoke
12X-200	2	Lockwasher, Term. Stud, 5/16	MCL-59	1	Clamp, Yoke Cover
8X-321	2	Screw, Brush Ground, Rd. Hd. #10-32x5/16	MCL-60	1	Cover, Yoke
8X-2988	2	Nut, Term. Stud, Hex. 5/16-18	MCL-3075	1	Clutch, Starter
12X-199	2	Lockwasher, Thru Bolt, 1/4	X-401	1	Pin, Cotter, Link Pin, 1/16x3/8
<u>Comm. End Head Assembly & Parts Used With</u>			<u>Miscellaneous Parts</u>		
MCL-2030	1	Head Assembly, Comm. End	MCH-1024	1	Band, Cover
MAD-110	1	Felt	MCL-53	1	Plate, Intermediate
MZ-19	4	Spring, Brush	MCS-46	1	Retainer, Snap Ring
<u>Armature Assembly & Parts Used With</u>			MCS-47A	1	Ring, Snap
MCH-96	1	Washer, Thrust, Comm. End	PS-1319	1	Housing Assembly, Pinion
MCH-2110	1	Armature	MP-41A	1	Bearing, Abs. Bronze
MN-18	1	Washer, Thrust, D. E.	12X-196	2	Lockwasher, Int. Plate Sc. , #10
MU-54	*	Washer, Thrust, C. E. 1/32" Thick	8X-311	2	Screw, Int. Plate, Rd. Hd. #10-32x3/8
MU-54B	*	Washer, Thrust, C. E. , 3/64" Thick			

† Brush Set, Service MZ-2012BS.
* Use as required.

UNIT	APPLICATION
MCL-6124	Dodge Truck, Fargo Truck

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6126 STARTING MOTOR PARTS LIST

MCL-6126
(Issued 9-3-53)

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-20	2	Bolt, Thru	SW-2827	1	Switch, Starting
MCL-2113	1	Frame & Field Assembly	12X-201	1	Lockwasher, 3/8
GK-38	4	Screw, Pble Shoe	8X-830	1	Nut, Hex. 3/8-16
MAW-37	1	Bushing, Ins., Term. Stud	8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
MAX-49	1	Stud, Terminal	X-1270	2	Washer, Switch Mtg. Sc., Skpf. #10
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			
SW-764S	1	Switch Contact Package			
12X-196	2	Lockwasher, Brush Ground 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>			<u>Clutch Assembly & Parts Used With</u>		
MCL-2030	1	Head Assy., Comm. End	MCH-77	1	Pin, Yoke
MAD-110	1	Felt	MCL-2095	1	Yoke
MZ-19	4	Spring, Brush	MCL-3075	1	Clutch, Starter
			X-406	1	Pin, Cotter, Yoke Pin, 3/32x1/2
<u>Armature Assembly & Parts Used With</u>			<u>Miscellaneous Parts</u>		
MCH-96	1	Washer, Thrust, Comm. End	MCH-1024	1	Band, Cover
MCH-2070	1	Armature Assembly	MCS-46	1	Retainer, Snap Ring
MCH-27	1	Spacer	MCS-47A	1	Ring, Snap
MN-18	1	Washer, Thrust, D. E.	PS-1302A	1	Housing Assy., Pinion
MU-54	*	Washer, Thrust, C. E., 1/32" Thick	MP-41A	1	Bearing, Abs. Bronze
MU-54B	*	Washer, Thrust, C. E., 3/64" Thick			

† Brush Set, Service MZ-2012BS.

* Use as Required.

UNIT	APPLICATION
MCL-6126	Dodge Truck, Fargo Truck

Printed in U. S. A.

File in
Equipment & Parts List Binder

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL- 6126F STARTING MOTOR PARTS LIST

MCL- 6126F
(Issued 9- 25- 56)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GJ- 20	2	Bolt, Thru
MCL- 2113CS	1	Frame & Field Assy.
GK- 38	4	Screw, Pole Shoe
MAW- 37	1	Bushing, Ins. , Term. Stud
MAX- 49	1	Stud, Terminal
MAX- 58	1	Equalizer
MCH- 25A	1	Washer, Ins. , Term. Stud
MCL- 30	1	Insulation, Field Connection
MCL- 3005FS	1	FIELD COIL PACKAGE
MAX- 64	2	Connector, Field Coil
MAX- 1007S- 1	1	Coil, Field, U. R.
MAX- 1008S- 2	1	Coil, Field, L. R.
MAX- 1009S- 2	1	Coil, Field, L. L.
MCL- 1010DS- 1	1	Coil, Field, U. R.
MN- 21	2	Pin, Dowel
MZ- 2012BS	1	BRUSH SET
SW- 764S	1	Switch Contact Package
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- 2030E	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, 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
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

Clutch Assembly & Parts Used With

MCH- 77	1	Pin, Yoke
MCL- 2095	1	Yoke
MCL- 3075	1	STARTER CLUTCH
X- 406	1	Pin, Cotter, Yoke Pin, 3/32x1/2

Miscellaneous Parts

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

* Use as required.

UNIT	APPLICATION
MCL- 6126F	Dodge Truck

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File in
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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6127M STARTING MOTOR PARTS LIST

MCL-6127M
(Issued 2-5-54)

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	DA-22A	1	Washer, Gear Retaining Sc.
MCL-3118	1	Frame & Field Assembly	DA-60B	1	Screw, Gear Retaining
GK-38C	4	Screw, Pole Shoe	EBB-26A	1	BENDIX DRIVE
MAB-31A	1	Washer, Ins. , Term. Stud, Outer	MAB-1024N	1	Band, Cover
MAB-85	1	Bushing, Ins. , Term. Stud	MCL-63	1	Shaft, Bendix Drive
MAX-58	1	Equalizer	MCL-100	2	Gear
MAX-64	2	Connector, Field Coil	MCL-101	1	Plate, Intermediate
MAX-1008S-1	1	COIL, FIELD, L. R.	MCL-102	1	Gasket, Int. Plate
MAX-1009S-1	1	COIL, FIELD, L. L.	MCL-103	1	Gasket, Housing
MCH-13†	2	Brush, Grounded	MCL-1104	1	BEARING ASSY. , INTERMEDIATE
MCJ-39A	1	Washer, Ins. , Term. Stud, Inner	MAK-39	1	Bearing, Abs. Bronze
MCL-30	1	Insulation, Field Connection	PS-1321	1	Housing Assy. , Pinion
MCL-34	1	Stud, Terminal	MP-41A	1	BEARING, ABS. BRONZE
MCL-1007FS	1	COIL, FIELD, U. L.	19X-66	4	Screw, Int. Plate, Flat Hd. #10-32x1/2
MCL-1010FS	1	COIL, FIELD, U. R.	19X-93	6	Screw, Pinion Housing, Hex. Hd. 5/16-18x1
MN-21A	2	Pin, Dowel	12X-199	1	Lockwasher, Gear Retaining Sc. , 1/4
MU-37G	1	Washer, Plain, Term. Stud	12X-1014	6	Lockwasher, Pinion Housing Sc. , 5/16
MZ-12†	2	Brush	X-1621A	4	Washer, Int. Plate Sc. , Skpf. #10
X-20	2	Screw, Brush Ground, Rd. Hd. #10-32x5/16	X-2875	1	Nut, Cover Band, Square #10-32
12X-196	2	Lockwasher, Ground Sc. , #10	X-2882	1	Screw, Cover Band, Fill. Hd. #10-32x1 1/2
12X-1014	2	Lockwasher, Term. Stud, 5/16	XA-813	1	Oil Seal
X-2976	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-3002B	1	Head Assy. , Comm. End			
MAD-110	1	Felt			
MZ-19A	4	Spring, Brush			
<u>Armature Assembly & Parts Used With</u>					
MAK-54	1	Washer, Thrust, Int. , 1/32" Thick			
MCH-2079M	1	ARMATURE			
MN-18	*	Washer, Thrust, D. E. , .065" Thick			
MN-18E	*	Washer, Thrust, D. E. , .095" Thick			
X-261C	3	Key, Woodruff, D. E. , #6			

† BRUSH SET, SERVICE MZ-2012BS.

UNIT	APPLICATION
MCL-6127M	Chrysler Marine

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6128M STARTING MOTOR PARTS LIST

MCL-6128M
(Issued 2-5-54)

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	DA-22A	1	Washer, Gear Retaining Sc.
MCL-2118	1	Frame & Field Assembly	DA-60B	1	Screw, Gear Retaining
GK-38C	4	Screw, Pole Shoe	EBB-32A	1	BENDIX DRIVE
MAB-31A	1	Washer, Ins. , Term. Stud, Outer	MAB-1024N	1	Band, Cover
MAB-85	1	Bushing, Ins. , Term. Stud	MCL-63	1	Shaft, Bendix Drive
MAX-58	1	Equalizer	MCL-100	2	Gear
MAX-64	2	Connector, Field Coil	MCL-101	1	Plate, Intermediate
MAX-1008S-1	1	COIL, FIELD, L. R.	MCL-102	1	Gasket, Int. Plate
MAX-1009S-1	1	COIL, FIELD, L. L.	MCL-103	1	Gasket, Housing
MCH-13†	2	Brush, Grounded	MCL-1104	1	BEARING ASSY. INTERMEDIATE
MCJ-39A	1	Washer, Ins. , Term. Stud, Inner	MAK-39	1	Bearing, Abs. Bronze
MCL-30	1	Insulation, Field Connection	PS-1321	1	Housing Assy. , Pinion
MCL-34	1	Stud, Terminal	MP-41A	1	BEARING, ABS. BRONZE
MCL-1007FS	1	COIL, FIELD, U. L.	19X-66	4	Screw, Int. Plate, Flat Hd. #10-32x1/2
MCL-1010FS	1	COIL, FIELD, U. R.	19X-93	6	Screw, Pinion Housing, Hex. Hd. 5/16-18x1
MN-21A	2	Pin, Dowel	12X-199	1	Lockwasher, Gear Retaining Sc. , 1/4
MU-37G	1	Washer, Plain, Term. Stud, 5/16	12X-1014	6	Lockwasher, Pinion Housing Sc. , 5/16
MZ-12†	2	Brush	X-1621A	4	Washer, Int. Plate Sc. , Skpf. #10
X-20	2	Screw, Brush Ground, Rd. Hd. #10-32x5/16	X-2875	1	Nut, Cover Band, Square #10-32
12X-196	2	Lockwasher, Br. Ground Sc. , #10	X-2882	1	Screw, Cover Band, Fill. Hd. #10-32x1 1/2
12X-1014	2	Lockwasher, Term. Stud, 5/16	XA-813	1	Oil Seal
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					
MCL-2030A	1	Head Assy. , Comm. End			
MAD-110	1	Felt			
MZ-19A	4	Spring, Brush			
Armature Assembly & Parts Used With					
MAK-54	1	Washer, Thrust, Int. , 1/32" Thick			
MCH-2079M	1	ARMATURE			
MN-18	*	Washer, Thrust, D. E. , .065" Thick			
MN-18E	*	Washer, Thrust, D. E. , .095" Thick			
X-261C	3	Key, Woodruff, D. E. , #6			

† BRUSH SET, SERVICE MZ-2012BS.

UNIT	APPLICATION
MCL-6128M	Chrysler Marine

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6130 STARTING MOTOR PARTS LIST

MCL-6130
(Issued 5-20-54)

Frame & Field Assembly & Parts Used With			Switch Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru	MCL-25	1	Connector
MCL-2115	1	Frame & Field Assembly	SSX-34	1	Spring
GK-38	4	Screw, Pole Shoe	SSX-36	1	Plug
MAB-31A	1	Washer, Ins. , Term. Stud, Outer	SSX-1021B	1	Moving Core Assembly
MAB-85	1	Bushing, Ins. , Term. Stud	SS-60	1	Washer, Steel, 3/8
MAX-58	1	Equalizer	SSX-21	1	Core, Moving
MCH-13 †	2	Brush, Grounded	SSX-22	1	Link Screw
MCJ-39B	1	Washer, Ins. , Term. Stud, Inner	SSX-35	1	Spring
MCL-30	1	Insulation, Field Connection	SSX-1023	1	Clamp Assembly
MCL-48	1	Stud, Terminal	8X-53	1	Screw, Rd. Hd. #8-32x5/8
MCL-3005CS	1	FIELD COIL PACKAGE	8X-141	1	Nut, Hex. #8-32
MAX-64	2	Connector, Field Coil	SSX-4004	1	Solenoid Starting Switch (See Separate List For Parts)
MAX-1008	1	Coil, Field, L. R.	8X-173	1	Nut, Switch Terminal, Hex. #10-32
MAX-1009	1	Coil, Field, L. L.	12X-196	1	Lockwasher, Switch Terminal #10
MCL-1007F	1	Coil, Field, U. L.	12X-199	4	Lockwasher, Switch Mtg. Screw, 1/4
MCL-1010F	1	Coil, Field, U. R.	12X-200	1	Lockwasher, Switch Term. , 5/16
MN-21	2	Pin, Dowel	8X-467	4	Screw, Switch Mtg. , Hex. Hd. 1/4-20x3/8
MU-37	1	Washer, Plain, Term. Stud	8X-2988	1	Nut, Switch Term. , Hex. 5/16-18
MZ-12 †	2	Bush	<u>Clutch Assembly & Parts Used With</u>		
12X-196	2	Lockwasher, Brush Ground Screw, #10	MCH-76	1	Pin, Link
12X-200	2	Lockwasher, Term. Stud, 5/16	MCH-2074C	1	Yoke
8X-321	2	Screw, Brush Ground, Rd. Hd. #10-32x5/16	MCL-58	1	Pin, Yoke
8X-2988	2	Nut, Term. Stud, Hex. 5/16-18	MCL-59	1	Clamp, Yoke Cover
12X-199	2	Lockwasher, Thru Bolt, 1/4	MCL-60	1	Cover, Yoke
<u>Comm. End Head Assembly & Parts Used With</u>			MCL-3161	1	Clutch, Starter
MCL-2030	1	Head Assy. , Comm. End	X-401	1	Pin, Cotter, Link Pin, 1/16x3/8
MAD-110	1	Felt	<u>Miscellaneous Parts</u>		
MZ-19	4	Spring, Brush	MCH-1024	1	Band, Cover
<u>Armature Assembly & Parts Used With</u>			MCL-53	1	Plate, Intermediate
MCH-96	1	Washer, Thrust, Comm. End	MCS-46	1	Retainer & Pinion Stop
MCH-2110	1	ARMATURE	MCS-47A	1	Ring, Snap, Retainer & Pinion Stop
MN-18	1	Washer, Thrust, D. E.	PS-1324	1	Housing Assy. , Pinion
MU-54	*	Washer, Thrust, C. E. , 1/32 inch Thick	MP-41A	1	BEARING, ABSORBENT BRONZE
MU-54B	*	Washer, Thrust, C. E. , 3/64 inch Thick	12X-196	2	Lockwasher, Int. Plate Screw, #10
			8X-311	2	Screw, Int. Plate, Rd. Hd. #10-32x3/8

† BRUSH SET, SERVICE MZ-2012BS.
* Use as required.

UNIT	APPLICATION
MCL-6130	Ford Truck

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6131 STARTING MOTOR PARTS LIST

MCL-6131
(Issued 5-20-54)

Frame & Field Assembly & Parts Used With		
Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru
MCL-2046	1	Frame & Field Assembly
GK-38	4	Screw, Pole Shoe
MAB-30	1	Insulation, Field Connection
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-2030	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	1	Washer, Thrust, Intermediate, 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		
Part No.	No. Used	Name of Part
MAX-89R	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-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
X-1270	2	Washer, Switch Mtg., Screw, Skpf. #10
Miscellaneous Parts		
EBB-38	1	Bendix Drive
MCH-1024	1	Band, Cover
MCH-1051	1	Bearing Assy., Intermediate
MCH-53	1	BEARING, ABSORBENT BRONZE
PS-1315	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
† BRUSH SET, SERVICE MZ-2012BS.		
* Use as Required.		

UNIT	APPLICATION
MCL-6131	Continental, Jaeger

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-6132 STARTING MOTOR PARTS LIST

MCL-6132
(Issued 11-16-54)

<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-76	1	Pin, Link
MCL-2114A	1	Frame & Field Assembly	MCH-77	1	Pin, Yoke
GK-38	4	Screw, Pole Shoe	MCH-2074	1	Yoke
MAB-31A	1	Washer, Ins., Term. Stud, Outer	MCL-3123	1	CLUTCH, STARTER
MAB-85	1	Bushing, Ins., Term. Stud	X-401	1	Pin, Cotter, Link Pin, 1/16x3/8
MAX-58	1	Equalizer	X-406	1	Pin, Cotter, Yoke Pin, 3/32x1/2
MCH-13 †	2	Brush, Grounded	<u>Switch Assembly & Parts Used With</u>		
MCJ-39B	1	Washer, Ins., Term. Stud, Inner	MCH-90	1	Connector
MCL-30	1	Insulation, Field Connection	SSX-4003	1	SOLENOID STARTING SWITCH (See Separate List for Parts)
MCL-48	1	Stud, Terminal	12X-199	4	Lockwasher, Switch Mtg. Screw, 1/4
MCL-3005CS	1	FIELD COIL PACKAGE	12X-200	1	Lockwasher, Switch Terminal, 5/16
MAX-64	2	Connector, Field Coil	8X-467	4	Screw, Switch Mtg., Hex. Hd. 1/4-20x3/8
MAX-1008	1	Coil, Field, L.R.	8X-2988	1	Nut, Switch Terminal, Hex. 5/16-18
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.	MCL-127	1	Ring, Snap, Retainer & Pinion Stop
MN-21	2	Pin, Dowel	MCL-129	1	Retainer & Pinion Stop
MU-37	1	Washer, Plain, Term. Stud	PS-1327	1	Housing Assy., Pinion
MZ-12 †	2	Brush	MDD-34	1	BEARING, ABSORBENT BRONZE
12X-196	2	Lockwasher, Ground Sc., #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-2122	1	ARMATURE			
MCL-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-6132	Hudson, Nash

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6133 STARTING MOTOR PARTS LIST

MCL-6133
(Issued 4-19-55)

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
GJ-20	2	Bolt, Thru	MCZ-82	1	Connector
MCL-2130	1	Frame & Field Assembly	SSX-4005	1	SOLENOID STARTING SWITCH (See Separate List for Parts)
GK-38	4	Screw, Pole Shoe	12X-199	4	Lockwasher, Switch Mtg. Screw, 1/4
MAB-31A	1	Washer, Ins., Term. Stud, Outer	12X-200	1	Lockwasher, Switch Terminal, 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 Terminal, Hex. 5/16-18
MCJ-39A	1	Washer, Ins., Term. Stud, Inner	Clutch Assembly & Parts Used With		
MCL-30	1	Insulation, Field Connection	MCH-76	1	Pin, Link
MCL-48	1	Stud, Terminal	MCH-77	1	Pin, Yoke
MCL-3005CS	1	FIELD COIL PACKAGE	MCH-2074	1	Yoke
MAX-64	2	Connector, Field Coil	MCL-3075	1	STARTER CLUTCH
MAX-1008	1	Coil, Field, L. R.	X-401	1	Pin, Cotter, Link Pin, 1/16x3/8
MAX-1009	1	Coil, Field, L. L.	X-406	1	Pin, Cotter, Yoke Pin, 3/32x1/2
MCL-1007F	1	Coil, Field, U. L.	Miscellaneous Parts		
MCL-1010F	1	Coil, Field, U. R.	MCH-1024	1	Band, Cover
MN-21	2	Pin, Dowel	MCS-46	1	Retainer & Pinion Stop
MU-37	1	Washer, Plain, Term. Stud	MCS-47A	1	Ring, Snap, Retainer & Pinion Stop
MZ-2012BS	1	BRUSH SET	PS-1328	1	Housing Assy., Pinion
12X-196	2	Lockwasher, Br. Ground Screw, #10	MP-41A	1	BEARING, ABSORBENT BRONZE
12X-200	2	Lockwasher, Term. Stud, 5/16	* Use as required.		
8X-321	2	Screw, Br. 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 ASSEMBLY			
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-6133	Dodge 6 (Canada) Plymouth 6 (Canada)

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Equipment & Parts List Binder

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6135 STARTING MOTOR PARTS LIST

MCL-6135

(Issued 10-3-55)

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
GJ-20	2	Bolt, Thru	MCL-25	1	Connector
MCL-2115	1	Frame & Field Assy.	MCL-51	1	Connector, Switch to Motor
GK-38	4	Screw, Pole Shoe	SSX-34	1	Spring, Plunger, 3 25/32"
MAB-31A	1	Washer, Ins., Term. Stud, Outer	SSX-36	1	Plug
MAB-85	1	Bushing, Ins., Term. Stud	SSX-1021B	1	Moving Core Assy.
MAX-58	1	Equalizer	SS-60	1	Washer, Steel, 3/8
MCJ-39B	1	Washer, Ins., Term. Stud, Inner	SSX-21	1	Core, Moving
MCL-30	1	Insulation, Field Connection	SSX-22	1	Link Screw
MCL-48	1	Stud, Terminal	SSX-35	1	Spring
MCL-3005CS	1	FIELD COIL PACKAGE	SSX-1023	1	Clamp Assy.
MAX-64	2	Connector, Field Coil	8X-53	1	Screw, Rd. Hd. #8-32x5/8
MAX-1008	1	Coil, Field, L. R.	8X-141	1	Nut, Hex. #8-32
MAX-1009	1	Coil, Field, L. L.	SSX-4004	1	SOLENOID STARTING SWITCH (See separate list for parts)
MCL-1007F	1	Coil, Field, U. L.	8X-173	1	Nut, Switch Terminal, Hex. #10-32
MCL-1010F	1	Coil, Field, U. R.	12X-196	1	Lockwasher, Term. Sc., #10
MN-21	2	Pin, Dowel	12X-199	4	Lockwasher, Switch Mtg. Sc., 1/4
MU-37	1	Washer, Plain, Term. Stud	12X-200	1	Lockwasher, Switch Term., 5/16
MZ-2012BS	1	BRUSH SET	8X-467	4	Screw, Switch Mtg., Hex. Hd. 1/4-20x3/8
12X-196	2	Lockwasher, Br. Grd. Sc., #10	8X-2988	1	Nut, Switch Term., Hex. 5/16-18
12X-200	2	Lockwasher, Term. Stud, 5/16			
8X-321	2	Screw, Br. 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>			<u>Clutch Assembly & Parts Used With</u>		
MCL-2030	1	Head Assy., Comm. End	MCH-76	1	Pin, Link
MAD-110	1	Felt	MCH-2074C	1	Yoke
MZ-19	4	Spring, Brush	MCL-58	1	Pin, Yoke
<u>Armature Assembly & Parts Used With</u>			MCL-59	1	Clamp, Yoke Cover
MCH-96	1	Washer, Thrust, Comm. End	MCL-60	1	Cover, Yoke
MCH-2110	1	ARMATURE	MCL-3161	1	CLUTCH, STARTER
MN-18	1	Washer, Thrust, D. E.	X-401	1	Pin, Cotter, Link Pin, 1/16x3/8
MU-54	*	Washer, Thrust, C. E., 1/32" Thick			
MU-54B	*	Washer, Thrust, C. E., 3/64" Thick			
			<u>Miscellaneous Parts</u>		
			MCH-1024	1	Band, Cover
			MCL-53	1	Plate, Intermediate
			MCS-46	1	Retainer & Pinion Stop
			MCS-47A	1	Ring, Snap, Retainer & Pinion Stop
			PS-1324A	1	Housing Assy., Pinion
			MP-41A	1	BEARING, ABS. BRONZE
			12X-196	2	Lockwasher, Int. Plate Sc., #10
			8X-311	2	Screw, Int. Plate, Rd. Hd. #10-32x3/8

* Use as required.

UNIT	APPLICATION
MCL-6135	Ford Tr. (6)

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File in
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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6201M STARTING MOTOR PARTS LIST

MCL-6201M

(Issued 10-29-53)

Frame & Field Assembly & Parts Used With			Miscellaneous Parts		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20A	2	Bolt, Thru	EBB-26A	1	BENDIX DRIVE
MCL-2118	1	Frame & Field Assembly	MAB-1024NS	1	Band, Cover
GK-38C	4	Screw, Pole Shoe	MCH-1051A	1	BEARING ASSEMBLY, INTERMEDIATE
MAB-31A	1	Washer, Ins., Term. Stud, Outer	MCH-53	1	Bearing, Abs. Bronze
MAB-85A	1	Bushing, Ins., Term. Stud	PS-1291B	1	Housing Assy., Pinion
MAX-58	1	Equalizer	MG-77A	1	BEARING, ABS. BRONZE
MAX-64	2	Connector, Field Coil	12X-196	2	Lockwasher, Int. Brg. Screw, #10
MAX-1008S-1	1	COIL, FIELD, L. R.	X-2875	1	Nut, Cover Band, Square #10-32
MAX-1009S-1	1	COIL, FIELD, L. L.	X-2881	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
MCH-13†	2	Brush, Grounded	X-2882	1	Screw, Cover Band, Fill. Hd. #10-32x1 1/2
MCJ-39A	1	Washer, Ins., Term. Stud, Inner			
MCL-30	1	Insulation, Field Connection			
MCL-34	1	Stud, Terminal			
MCL-1007FS	1	COIL, FIELD, U. L.			
MCL-1010FS	1	COIL, FIELD, U. R.			
MN-21A	2	Pin, Dowel			
MU-37G	1	Washer, Plain, Term. Stud			
MZ-12†	2	Brush			
X-20	2	Screw, Ground, Rd. Hd. #10-32x5/16			
12X-196	2	Lockwasher, Ground Screw, #10			
12X-1014	2	Lockwasher, Term. Stud, 5/16			
X-2971	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-2030DS	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19A	4	Spring, Brush			
<u>Armature Assembly & Parts Used With</u>					
MCH-2088M	1	Armature			
MU-54F	*	Washer, Thrust, C. E., 1/32" Thick			
MU-54G	*	Washer, Thrust, C. E., 1/64" Thick			
MU-54J	*	Washer, Thrust, C. E., .046" Thick			
MU-54N	1	Washer, Thrust, Intermediate, 1/16" Thick			
X-261	1	Key, Woodruff, D. E., #6			

* Use as required.

† BRUSH SET, SERVICE MZ-2012BS

UNIT	APPLICATION
MCL-6201M	Chrysler Marine

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File in
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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6202 STARTING MOTOR PARTS LIST

MCL-6202
(Issued 11-11-55)

<u>Frame & Field Assembly & Parts Used With</u>			<u>Switch Assembly & Parts Used With</u>		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru	MAX-89R	1	Connector
MCL-2046	1	Frame & Field Assembly	SSP-4001	1	SOLENOID STARTING SWITCH
GK-38	4	Screw, Pole Shoe	8X-173	1	Nut, Hex. #10-32
MAB-30	1	Insulation, Field Connection	12X-196	1	Lockwasher, #10
MAB-31A	1	Washer, Ins., Term. Stud, Outer	8X-836	2	Nut, Hex. 5/16-24
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
MCJ-39A	1	Washer, Ins., Term. Stud, Inner	X-1270	2	Washer, Switch Mtg. Sc., Skpf. #10
MCL-34	1	Stud, Terminal			
MCL-3005CS	1	FIELD COIL PACKAGE			<u>Miscellaneous Parts</u>
MAX-64	2	Connector, Field Coil	EBB-26	1	BENDIX DRIVE
MAX-1008	1	Coil, Field, L. R.	MAX-1024	1	Band, Cover
MAX-1009	1	Coil, Field, L. L.	MCH-1051	1	BEARING ASSY., INTERMEDIATE
MCL-1007F	1	Coil, Field, U. L.	PS-1291F	1	Housing Assy., Pinion
MCL-1010F	1	Coil, Field, U. R.	MG-77A	1	BEARING, ABS. BRONZE
MN-21	2	Pin, Dowel	12X-196	2	Lockwasher, Int. Brg. Sc., #10
MU-37	1	Washer, Plain, Term. Stud	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MZ-2012BS	1	BRUSH SET	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-196	2	Lockwasher, Ground Sc., #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			
					* Use as required.
<u>Comm. End Head Assembly & Parts Used With</u>					
MCL-2030G	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	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-54L	*	Washer, Thrust, C. E., 1/16" Thick			
X-261	1	Key, Woodruff, D. E., #6			

UNIT	APPLICATION
MCL-6202	Chrysler (Industrial)

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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-6204 STARTING MOTOR PARTS LIST

MCL-6204
(Issued 10-15-54)

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
MCL-2043	1	Frame & Field Assembly	MU-54	1	Washer, Thrust, 1/32" Thick
GK-38	4	Screw, Pole Shoe	MU-54	*	Washer, Thrust, C. E., 1/32" Thick
MAB-30	1	Insulation, Field Connection	MU-54B	*	Washer, Thrust, C. E., 3/64" Thick
MAB-31A	1	Washer, Ins., Term. Stud, Outer	MU-54L	*	Washer, Thrust, C. E., 1/16" Thick
MAB-85	1	Bushing, Ins., Term. Stud	X-261	1	Key, Woodruff, D. E., #6
MAX-58	1	Equalizer	<u>Miscellaneous Parts</u>		
MCH-13 †	2	Brush, Grounded	EBB-20	1	BENDIX DRIVE ASSEMBLY
MCJ-39A	1	Washer, Ins., Term. Stud, Inner	MCH-1024	1	Band, Cover
MCL-34	1	Stud, Terminal	MCH-1051	1	BEARING ASSEMBLY, INTERMEDIATE
MCL-3005CS	1	FIELD COIL PACKAGE	PS-1291F	1	Housing Assy., Pinion
MAX-64	2	Connector, Field Coil	MG-77A	1	Bearing, Abs. Br
MAX-1008	1	Coil, Field, L. R.	12X-196	2	Lockwasher, Int. Brg. Screw, #10
MAX-1009	1	Coil, Field, L. L.	8X-1368	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
MCL-1007F	1	Coil, Field, U. L.	* Use as required.		
MCL-1010F	1	Coil, Field, U. R.	† BRUSH SET, SERVICE MZ-2012BS.		
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			
<u>Comm. End Head Assembly & Parts Used With</u>					
MCL-2030G	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			

UNIT	APPLICATION
MCL-6204	Chrysler Corp. (Canada)

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File in
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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCL-6304 STARTING MOTOR PARTS LIST

MCL-6304
(Issued 10-15-54)

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	SSX-4004	1	SOLENOID STARTING SWITCH (See Separate List for Parts)
MCL-2115A	1	Frame & Field Assembly	12X-199	4	Lockwasher, Switch Mtg. Screw, 1/8
GK-38	4	Screw, Pole Shoe	12X-200	1	Lockwasher, Switch Terminal, 5/16
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-2988	1	Nut, Switch Terminal, 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-48	1	Stud, Terminal	MCH-2074C	1	Yoke
MCL-3005CS	1	FIELD COIL PACKAGE	MCL-58	1	Pin, Yoke
MN-21	2	Pin, Dowel	MCL-59	1	Clamp, Yoke Cover
MU-37	1	Washer, Plain, Term. Stud	MCL-60	1	Cover, Yoke
MZ-12 †	2	Brush	MCL-3075	1	CLUTCH, STARTER
12X-196	2	Lockwasher, Br. Ground Screw, #10	X-401	1	Pin, Cotter, Link Pin, 1/16x3/8
12X-200	2	Lockwasher, Term. Stud, 5/16	<u>Miscellaneous Parts</u>		
8X-321	2	Screw, Brush Ground, Rd. Hd. #10-32x5/16	MCH-1024	1	Band, Cover
8X-2988	2	Nut, Term. Stud, Hex. 5/16-18	MCL-53	1	Plate, Intermediate
12X-199	2	Lockwasher, Thru Bolt, 1/4	MCS-46	1	Retainer & Pinion Stop
<u>Comm. End Head Assembly & Parts Used With</u>			MCS-47A	1	Ring, Snap, Retainer & Pinion Stop
MCL-2030	1	Head Assy., Comm. End	PS-1316	1	Housing Assy., Pinion
MAD-110	1	Felt	MP-41A	1	BEARING, ABSORBENT BRONZE
MZ-19	4	Spring, Brush	12X-196	2	Lockwasher, Int. Plate Screw, #10
<u>Armature Assembly & Parts Used With</u>			8X-311	2	Screw, Int. Plate, Rd. Hd. #10-32x3/8
MCH-96	1	Washer, Thrust, Comm. End	† BRUSH SET, SERVICE MZ-2012BS.		
MCH-2110	1	ARMATURE	* Use As Required.		
MN-18	1	Washer, Thrust, Drive End			
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, Plunger, 3 25/32"			
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			
SSX-1023	1	Clamp Assembly			
8X-53	1	Screw, Rd. Hd. #8-32x5/8			
8X-141	1	Nut, Hex. #8-32			

UNIT	APPLICATION
MCL-6304	Chrysler (8), DeSoto (8)

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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-6309 STARTING MOTOR PARTS LIST

MCL-6309
(Issued 4-20-55)

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
GJ-20	2	Bolt, Thru	MCL-65	1	Connector
MCL-3120	1	Frame & Field Assembly	SSX-4104	1	SOLENOID STARTING SWITCH (See Separate List for Parts)
GK-38	4	Screw, Pole Shoe	12X-199	4	Lockwasher, Switch Mtg. Screw, 1/4
MAB-31A	1	Washer, Ins., Term. Stud, Outer	12X-200	1	Lockwasher, Switch Terminal, 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 Terminal, Hex. 5/16-18
MCJ-39B	1	Washer, Ins., Term. Stud, Inner	Clutch Assembly & Parts Used With		
MCL-48	1	Stud, Terminal	MCH-76	1	Pin, Link
MCL-3005CS	1	FIELD COIL PACKAGE	MCH-77	1	Pin, Yoke
MAX-64	2	Connector, Field Coil	MCH-2074E	1	Yoke
MAX-1008	1	Coil, Field, L. R.	MCL-3109A	1	Starter Clutch
MAX-1009	1	Coil, Field, L. L.	X-401	1	Pin, Cotter, Link Pin, 1/16x3/8
MCL-1007F	1	Coil, Field, U. L.	X-406	1	Pin, Cotter, Yoke Pin, 3/32x1/2
MCL-1010F	1	Coil, Field, U. R.	Miscellaneous Parts		
MCU-15	1	Insulation, Brush Connection	MCH-1024	1	Band, Cover
MN-21	2	Pin, Dowel	PS-1329	1	Housing Assy., Pinion
MU-37	1	Washer, Plain, Term. Stud	MP-41A	1	BEARING, ABSORBENT BRONZE
MZ-2012BS	1	BRUSH SET	* Use as required.		
12X-196	2	Lockwasher, Br. Ground Screw, #10			
12X-200	2	Lockwasher, Term. Stud, 5/16			
8X-321	2	Screw, Br. 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-3002	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-2039	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			

UNIT	APPLICATION
MCL-6309	Chrysler (Ind.)

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



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCO-4004 STARTING MOTOR PARTS LIST

(MCO-4004)
(Issued 9-18-53)

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
MCO-2062	1	Frame & Field Assembly	MAK-61	1	Washer, Thrust, C. E.
GK-38	8	Screw, Pole Shoe	MBD-283	2	Washer, Thrust, Intermediate
MAW-37	1	Bushing, Ins. , Term. Stud	MCO-2397	1	Armature
MAX-44	1	Washer, Plain, Term. Stud, Outer	MU-54	*	Washer, Thrust, C. E. , 1/32" Thick
MBD-119	2	Washer, Ins. , 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
MC-51A	1	Washer, Plain, Term. Stud, Inner			
MCO-13†	4	Brush	<u>Switch Assembly & Parts Used With</u>		
MCO-13A†	4	Brush, Grounded	MBD-1252D	1	Switch & Bracket Assy.
MCO-34	1	Connector, Brush	MBD-252A	1	Bracket
MCO-3005S	1	Field Coil Package	MBD-268	1	Connector, Switch to Motor
MCO-1007	1	Coil, Field, U. L.	WSM-4101A	1	Solenoid Starting Switch (See Separate List for Parts)
MCO-1008	1	Coil, Field, L. R.	19X-343	2	Screw, Switch Mtg. , Hex. Hd. 1/4-28x5/8
MCO-1009	1	Coil, Field, U. R.	XA-595	2	Nut, Switch Mtg. , Hex. 1/4-28
MCO-1010	1	Coil, Field, L. L.	12X-199	4	Lockwasher, Switch Mtg. Sc. , 1/4
MR-28	1	Connector, Term. Stud	8X-905	4	Screw, Switch Mtg. , Fill. Hd. 1/4-20x7/16
MR-32	2	Insulation, Field Connection			
8X-66	4	Screw, Brush Lead, Flat Hd. #10-32x1/2	<u>Miscellaneous Parts</u>		
12X-201	1	Lockwasher, Term. Stud, 3/8	EBB-13	1	Bendix Drive
8X-830	1	Nut, Term. Stud, Hex. 3/8-16	MBD-281	1	Gasket, Int. Bearing
8X-148	1	Nut, Term. Stud, Hex. 3/8-16	MBD-1296	1	Bearing Assy. , Intermediate
12X-201	1	Lockwasher, Term. Stud, 3/8	MBD-295	1	Bearing, Abs. Bronze
			XA-717	1	Oil Seal
			MCK-1024	1	Band, Cover
			MCO-30	8	Screw, Housing, Hex. Hd. #10-40x1 5/16
			PS-1317A	1	Housing Assy. , Pinion
			MBD-257	1	Bearing, Abs. Bronze
			8X-65	3	Screw, Int. Bearing, Flat Hd. #10-32x3/4
			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
<u>Comm. End Head Assembly & Parts Used With</u>					
GAL-40A	1	Cover, Bearing, C. E.			
MAD-110	1	Felt			
MBR-2236B	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 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			

† Brush Set, Service MCO-1013S.
* Use as Required.

UNIT	APPLICATION
MCO-4004	Case Tractor

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File in
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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCO-4005 STARTING MOTOR PARTS LIST

MCO-4005
(Issued 3-1-55)

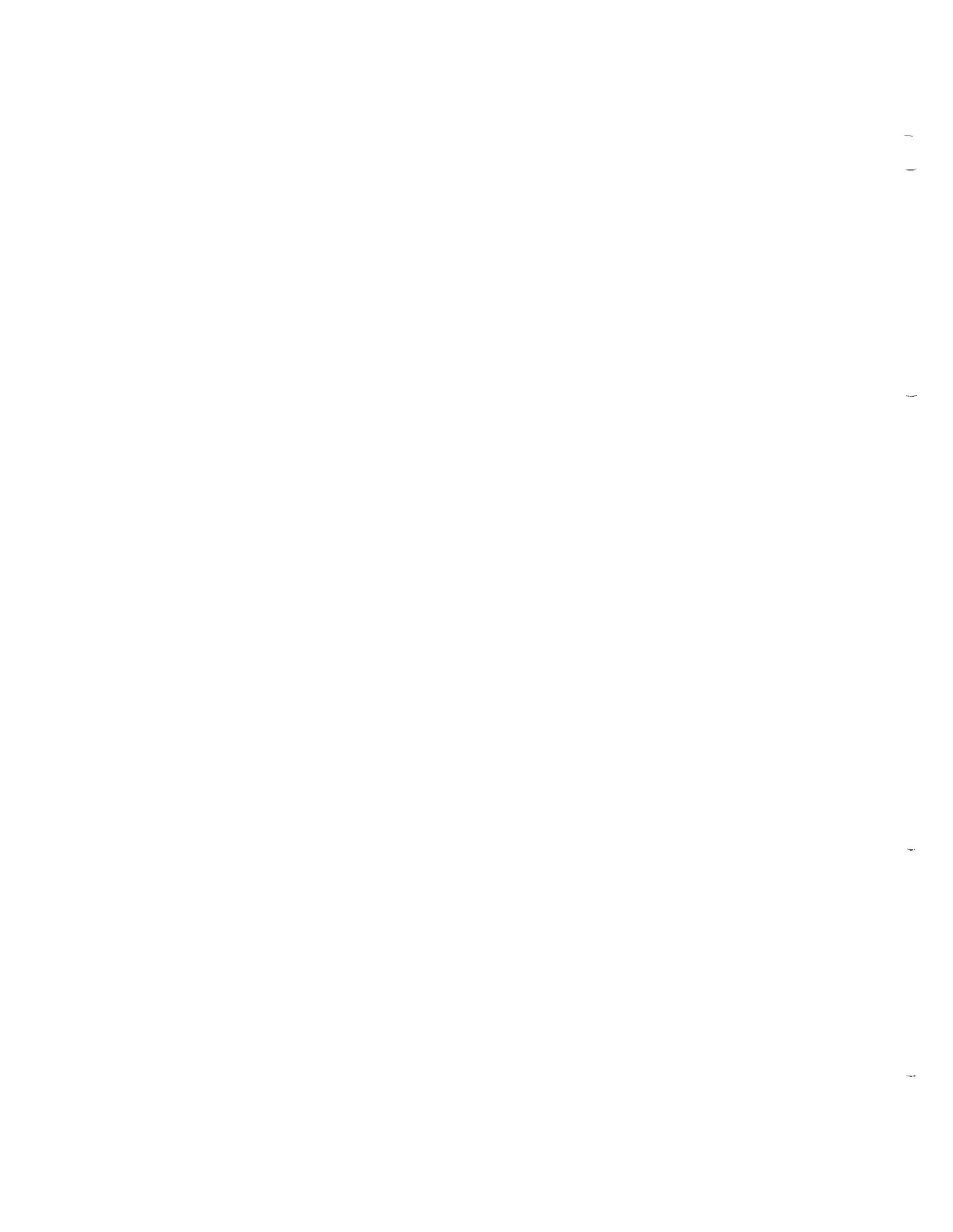
Frame & Field Assembly & Parts Used With			Armature Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MCO-2032	1	Frame & Field Assembly	MAK-61	1	Washer, Thrust, C. E.
GK-38	8	Screw, Pole Shoe	MCK-22	2	Washer, Thrust, Intermediate
MAW-37	1	Bushing, Ins., Term. Stud	MCO-2397	1	ARMATURE
MAX-44	1	Washer, Plain, Term. Stud, Outer	MU-54	*	Washer, Thrust, C. E., 1/32" Thick
MBD-119	2	Washer, Ins., Term. Stud	MU-54B	*	Washer, Thrust, C. E., 3/64" Thick
MBD-233A	1	Stud, Terminal			
MC-51A	1	Washer, Plain Term. Stud, Inner			
MCK-32	2	Insulation, Field Connection			<u>Miscellaneous Parts</u>
MCO-13†	4	Brush	EBB-13	1	BENDIX DRIVE
MCO-13A†	4	Brush, Grounded	MBD-1403	1	Bearing Assy., Intermediate
MCO-34	1	Connector, Brush	MBD-295	1	BEARING, ABS. BRONZE
MCO-3005S	1	FIELD COIL PACKAGE	MBD-312	1	Retainer, Felt
MCO-1007	1	Coil, Field, U. L.	MBD-313	1	Washer, Felt
MCO-1008	1	Coil, Field, L. R.	MCK-1024	1	Band, Cover
MCO-1009	1	Coil, Field, U. R.	MCO-30	8	Screw, Housing, Hex. Hd. #10-40x1 5/16
MCO-1010	1	Coil, Field, L. L.	PS-1317B	1	Housing Assy., Pinion
MR-28	1	Connector, Term. Stud	MBD-257	1	BEARING, ABS. BRONZE
8X-66	4	Screw, Brush Lead, Flat Hd. #10-32x1/2	8X-65	3	Screw, Int. Bearing, Flat Hd. #10-32x3/4
12X-201	1	Lockwasher, Term. Stud, 3/8	12X-196	10	Lockwasher, Housing & Switch Mtg. Screw, #10
8X-830	1	Nut, Term. Stud, Hex. 3/8-16	8X-312	2	Screw, Switch Mtg., Rd. Hd. #10-32x1/4
8X-148	1	Nut, Term. Stud, Hex. 3/8-16	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
12X-201	1	Lockwasher, Term. Stud, 3/8	8X-794	1	Nut, Cover Band, Square #10-32
					† BRUSH SET, SERVICE MCO-1013S.
					* Use as required.
<u>Comm. End Head Assembly & Parts Used With</u>					
GAL-40C	1	Cover, Bearing, C. E.			
MAD-110	1	Felt			
MBD-258	12	Screw, C. E. Head, Fill. Hd. #10-32x5/8			
MBR-2236B	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 Screw, #10			
X-2964A	1	Oiler			
12X-196	12	Lockwasher, Head Screw, #10			

UNIT	APPLICATION
MCO-4005	Massey-Harris

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCO-4008 STARTING MOTOR PARTS LIST

MCO-4008
(Issued 9-25-56)

<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
MCO-2062	1	Frame & Field Assembly	MAK-61	1	Washer, Thrust, C. E.
GK-38	8	Screw, Pole Shoe	MBD-283	2	Washer, Thrust, Intermediate
MAW-37	1	Bushing, Ins., Term. Stud	MCO-2397	1	ARMATURE
MAX-44	1	Washer, Plain, Term. Stud, Outer	MU-54	*	Washer, Thrust, C. E., 1/32" Thick
MBD-119	2	Washer, Ins., Term. Stud	MU-54B	*	Washer, Thrust, C. E., 3/64" Thick
MBD-233A	1	Stud, Terminal	<u>Switch Assembly & Parts Used With</u>		
MC-51A	1	Washer, Plain, Term. Stud, Inner	MBD-1252D	1	Switch & Bracket Assy.
MCK-32	2	Insulation, Field Connection	MBD-252A	1	Bracket
MCO-34	1	Connector, Brush	MBD-268	1	Connector, Switch to Motor
MCO-1013S	1	BRUSH SET	WSM-4101A	1	SOLENOID STARTING SWITCH
MCO-3005S	1	FIELD COIL PACKAGE	(See separate list for parts)		
MCO-1007	1	Coil, Field, U. L.	19X-343	2	Screw, Switch Mtg., Hex. Hd. 1/4-28x5/8
MCO-1008	1	Coil, Field, L. R.	XA-595	2	Nut, Switch Mtg., Hex. 1/4-28
MCO-1009	1	Coil, Field, U. R.	12X-199	4	Lockwasher, Switch Mtg. Sc., 1/4
MCO-1010	1	Coil, Field, L. L.	8X-905	4	Screw, Switch Mtg., Fill. Hd. 1/4-20x7/16
MR-28	1	Connector, Term. Stud	<u>Miscellaneous Parts</u>		
8X-66	4	Screw, Brush Lead, Flat Hd. #10-32x1/2	EBB-13	1	BENDIX DRIVE ASSY,
12X-201	1	Lockwasher, Term. Stud, 3/8	EBA-5716	1	Screw, Pinion Back Stop
8X-830	1	Nut, Term. Stud, Hex. 3/8-16	EBB-1104	1	Pinion
8X-148	1	Nut, Term. Stud, Hex. 3/8-16	EBB-1113	1	Spring, Anti-Drift
12X-201	1	Lockwasher, Term. Stud, 3/8	EBB-1115A	1	Stop, Pinion Back
<u>Comm. End Head Assembly & Parts Used With</u>			EBB-1131	1	Shaft, Screw
GAL-40A	1	Cover, Bearing, C. E.	EBB-1142	1	Pin, Stop Nut
MAD-110	1	Felt	EBB-1325	1	Spring, Meshing
MBD-258	12	Screw, C. E. Head, Fill. Hd. #10-32x5/8	EBB-3011S	1	Spring Kit, Anti-Drift
MBR-2236B	1	Head Assy., Comm. End	EBB-3013S	1	Pinion Kit
MBD-150	1	Wick, Felt	EBB-3015S	1	Clutch Assembly Kit
MBD-1236	1	Head Assy., Partial, C. E.	MBD-1403	1	Bearing Assy., Intermediate
GBF-79	1	BEARING, ABS. BRONZE	MBD-295	1	BEARING, ABS. BRONZE
MBR-2079	1	Plate Assy., Brush	MBD-312	1	Retainer, Felt
GG-81	4	Clip, Brush Holder Post	MBD-313	1	Washer, Felt
MBD-19	8	Spring, Brush	MCK-1024	1	Band, Cover
MBD-47	4	Spacer, Spring, Brush	MCO-30	8	Screw, Housing, Hex. Hd. #10-40x1 5/16
8X-120	4	Screw, Brush Plate, Fill. Hd. #10-32x5/8	PS-1317A	1	Housing Assy., Pinion
12X-196	4	Lockwasher, Brush Plate Screw, #10	MBD-257	1	BEARING, ABS. BRONZE
X-2964A	1	Oiler	8X-65	3	Screw, Int. Bearing, Flat Hd. #10-32x3/4
12X-196	12	Lockwasher, Head Screw, #10	12X-196	8	Lockwasher, Hsg. Screw, #10
			8X-714	1	Sc. Cover Band, Rd. Hd. #10-32x1 1/2
			8X-794	1	Nut, Cover Band, Square #10-32

* Use as required.

UNIT	APPLICATION
MCO-4008	J. I. Case

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCP-4001 STARTING MOTOR PARTS (Cont'd.)

Miscellaneous Parts		
Part No.	No. Used	Name of Part
GBG-56	1	Retainer, Bearing
GBG-57	1	Retainer, Felt Washer
GBG-58	1	Washer, Felt
MCP-3	1	Head
8X-119	4	Screw, Retainer, Fill. Hd. #10-32x1/2
12X-196	4	Lockwasher, Retainer Sc., #10
X-444	1	BEARING, BALL, S.A.E. #305
8X-118	6	Screw, D.E. Head, Fill. Hd. #10-32x3/4
12X-196	6	Lockwasher, Head Screw, #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
MCP-4001	Automatic Transportation

(Issued 10-4-49)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCP-4002 STARTING MOTOR PARTS LIST

MCP-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				
(MCP-2032)	1	Frame & Field Assy.	MCP-19	4	Spring, Brush				
GFR-44	8	Screw, Pole Shoe	8X-173	4	Nut, Brush Stud, Hex. #10-32				
MCP-22	1	Bracket	12X-196	4	Lockwasher, Brush Stud, #10				
MCP-25	4	Bushing, Insulation	8X-208	1	Screw, Plate Adj., Hex. Hd. #10-32x9/16				
MCP-26	1	Lead Assy.	8X-305	4	Screw, Brush Lead, Rd. Hd. #8-32x1/4				
X-1743	2	Terminal	8X-361	2	Washer, Plain, Br. Plate Sc.				
MCP-27	1	Lead Assy.	X-1270	1	Washer, Plate Adj. Sc., Skpf. #10				
X-1743	2	Terminal	X-1276	4	Washer, Brush Lead Sc., Skpf. #8				
MCP-28	1	Lead, Field Coil	8X-118	6	Screw, C.E. Head, Fill. Hd. #10-32x3/4				
MCP-28A	1	Lead, Field Coil	12X-196	10	Lockwasher, Head Screw & Cover Screw, #10				
MCP-41	2	Insulation, Field Connection	12X-199	1	Lockwasher, Brg. Retaining Sc., 1/4				
MCP-3005AS	1	FIELD COIL PACKAGE	X-440	1	BEARING, BALL, SHIELDED, S.A.E. #305				
MCP-35	2	Connector, Field Coil	8X-870	4	Screw, Cover, Fill. Hd. #10-32x5/16				
MCP-1007A	1	Coil, Field, U.L.	<u>Armature Assembly & Parts Used With</u>						
MCP-1008A	1	Coil, Field, L.R.	GBG-49	1	Spacer, Armature Shaft				
MCP-1009B	1	Coil, Field, L.L.	MCP-2021F	1	ARMATURE				
MCP-1010B	1	Coil, Field, U.R.	<u>Miscellaneous Parts</u>						
SP-172	3	Grommet	GEK-1024A	1	Band, Cover				
12X-196	2	Lockwasher, #10	MCP-23	1	Washer, Steel				
8X-902	2	Screw, Fill. Hd. #10-32x3/8	MCP-30	1	Head, Drive End				
X-1658	2	Terminal	12X-199	6	Lockwasher, Head Sc., 1/4				
X-3064	1	Terminal	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2				
X-3065	1	Terminal	8X-794	1	Nut, Cover Band, Square #10-32				
<u>Comm. End Head Assembly & Parts Used With</u>			X-3019	6	Screw, D.E. Head, Fill. Hd. 1/4-28x11/16				
DA-60	1	Screw, Bearing Retaining	X-3020	1	Bearing, Sealed				
GBG-46	1	Washer, Spring	XA-752	1	Ring, Retaining				
GBG-47	1	Washer, Felt	† BRUSH SET, SERVICE MCP-2012S.						
GBG-48	2	Retainer, Felt Washer	<table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding: 2px;">UNIT</td> <td style="padding: 2px;">APPLICATION</td> </tr> <tr> <td style="padding: 2px;">MCP-4002</td> <td style="padding: 2px;">Yale & Towne</td> </tr> </table>			UNIT	APPLICATION	MCP-4002	Yale & Towne
UNIT	APPLICATION								
MCP-4002	Yale & Towne								
GBG-63	1	Cover, Comm. End	(Issued 4-19-50)						
GBG-64	1	Gasket, Comm. End Cover	<div style="display: flex; justify-content: space-between;"> Printed in U. S. A. File in Equipment & Parts List Binder </div>						
GBG-66	1	Washer, Bearing Retaining Sc.	† 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.						
MCP-2093A	1	Head Assy., Comm. End							
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, Br. Plate Sc.							
GBG-93A	1	Head							
GK-151	1	Washer, Plain, Plate Adj. Sc.							
MCP-1012†	4	Brush							
MCP-1031	1	Plate Assy., Br. Holder							
GBG-18R	4	Holder, Brush							
GBG-40	4	Terminal, Brush Holder							
GBG-85	4	Stud, Brush Holder							
GBG-1037	4	Arm, Brush							

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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

MCP-4003 STARTING MOTOR PARTS LIST

MCP-4003
(Issued 1-28-52)

<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				
MCP-2044	1	Frame & Field Assy.	GBG-85	4	Stud, Brush Holder				
GBG-23	2	Stud, Terminal	GBG-1037	4	Arm, Brush				
GBW-27	4	Insulation, Field Coil	MCP-19	4	Spring, Brush				
GCY-28	4	Bushing, Ins., Term. Stud	8X-173	4	Nut, Brush Stud, Hex. #10-32				
GFR-44	8	Screw, Pole Shoe	12X-196	4	Lockwasher, Brush Stud, #10				
MBS-26	1	Lead Assy.	8X-208	1	Screw, Plate Adj., Hex. Hd. #10-32x9/16				
MBS-14	1	Clip, Terminal	8X-305	4	Screw, Brush Lead, Rd. Hd. #8-32x1/4				
X-1743	2	Terminal	8X-361	2	Washer, Plain, Br. Plate Screw				
MBS-27	1	Lead Assy.	X-1270	1	Washer, Plate Adj. Sc., Skf. #10				
MBS-14	1	Clip, Terminal	X-1276	4	Washer, Brush Lead Screw, Skpf. #8				
X-1743	2	Terminal	8X-118	6	Screw, C. E. Head, Fill. Hd. #10-32x3/4				
MBS-33	2	Insulation, Term. Stud	12X-196	10	Lockwasher, Head Screw & Cover Screw, #10				
MBS-37	2	Insulation, Term. Stud	12X-199	1	Lockwasher, Brg. Retaining Sc., 1/4				
MBS-38	2	Stud, Terminal	8X-870	4	Screw, Cover, Fill. Hd. #10-32x5/16				
MCP-3005S	1	FIELD COIL PACKAGE	X-1699	1	BEARING, BALL, SHIELDED, S. A. E. #305				
MCP-35	2	Connector, Field Coil	<u>Armature Assembly & Parts Used With</u>						
MCP-1007	1	Coil, Field, U. L.	GBG-49	1	Spacer, Armature Shaft				
MCP-1008	1	Coil, Field, L. R.	MCP-2042F	1	ARMATURE				
MCP-1009	1	Coil, Field, L. L.	<u>Miscellaneous Parts</u>						
MCP-1010	1	Coil, Field, U. R.	MCP-33	1	Head, D. E.				
MU-36	4	Washer, Ins., Term. Stud	MCP-1024	1	Band, Cover				
MU-37	4	Washer, Plain, Term. Stud, 5/16	12X-199	6	Lockwasher, Head Sc., 1/4				
12X-1014	8	Lockwasher, Term. Stud, 5/16	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2				
8X-1376	8	Nut, Term. Stud, Hex. 5/16-24	8X-794	1	Nut, Cover Band, Square #10-32				
<u>Comm. End Head Assembly & Parts Used With</u>			8X-1544	6	Screw, D. E. Head, Fill. Hd. 1/4-20x7/8				
DA-60	1	Screw, Bearing Retaining	X-3165	1	BEARING, BALL, SEALED				
GBG-63	1	Cover, Comm. End	† BRUSH SET, SERVICE MCP-2012S.						
GBG-66	1	Washer, Bearing Retaining	<table border="1"> <thead> <tr> <th>UNIT</th> <th>APPLICATION</th> </tr> </thead> <tbody> <tr> <td>MCP-4003</td> <td>Revolvator Co.</td> </tr> </tbody> </table>			UNIT	APPLICATION	MCP-4003	Revolvator Co.
UNIT	APPLICATION								
MCP-4003	Revolvator Co.								
MCP-37	1	Spacer, Bearing							
MCP-38	1	Spacer, Bearing							
MCP-2093A	1	Head Assy., Comm. End							
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, Br. Plate Screw							
GBG-93A	1	Head							
GK-151	1	Washer, Plain, Plate Adj. Screw							
MCP-1012	4	Brush							
MCP-1031	1	Plate Assy., Br. Holder							
GBG-18R	4	Holder, Brush							
GBG-40	4	Terminal, Brush Holder							

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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

MCP-4006 MOTOR PARTS LIST

MCP-4006
(Issued 1-22-53)

Frame & Field Assembly & Parts Used With		
Part No.	No. Used	Name of Part
MCP-2039A	1	Frame & Field Assy.
GBG-23	2	Stud, Terminal
GCY-28C	4	Bushing, Ins., Term. Stud
GDW-33S	1	Bracket, Mtg.
GEB-23A	4	Insulation, Field Coil
GFR-44	8	Screw, Pole Shoe
MBS-26A	1	Lead Assy.
MBS-14	1	Clip, Terminal
X-1743	2	Terminal
MBS-27A	1	Lead Assy.
MBS-14	1	Clip, Terminal
X-1743	2	Terminal
MBS-33A	2	Insulation, Term. Stud
MBS-37A	2	Insulation, Term. Stud
MBS-38	2	Stud, Terminal
MCP-35	2	Connector, Field Coil
MCP-1007B	1	Coil, Field, U.L.
MCP-1008B	1	Coil, Field, L.R.
MCP-1009C	1	Coil, Field, L.L.
MCP-1010C	1	Coil, Field, U.R.
MU-36C	4	Washer, Ins., Term. Stud
MU-37	4	Washer, Plain, Term. Stud, 5/16
12X-201	4	Lockwasher, Bracket Screw, 3/8
8X-465	4	Screw, Bracket, Hex. Hd. 3/8-24x3/4
12X-1014	8	Lockwasher, Term. Stud 5/16
8X-1376	8	Nut, Term. Stud, Hex. 5/16-24

Comm. End Head Assembly & Parts Used With		
Part No.	No. Used	Name of Part
DA-60	1	Screw, Bearing Retaining
GBG-63	1	Cover, Comm. End
GBG-64A	1	Gasket, Comm. End Cover
GBG-66	1	Washer, Bearing Retaining
MCP-2093B	1	Head Assy., Comm. End
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, Br. Plate Screw
GBG-93B	1	Head, C.E.
GK-151	1	Washer, Plain, Plate Adj. Screw
MCP-1012A †	4	Brush
MCP-1031A	1	Plate Assy., Br. Holder
GBG-18R	4	Holder, Brush
GBG-40	4	Terminal, Brush Holder
GBG-85	4	Stud, Brush Holder

Comm. End Head Assembly (Continued)		
Part No.	No. Used	Name of Part
GBG-1037	4	Arm, Brush
MCP-19	4	Spring, Brush
8X-173	4	Nut, Brush Stud, Hex. #10-32
12X-196	4	Lockwasher, Brush Stud, #10
8X-208	1	Screw, Plate Adj., Hex. Hd. #10-32x9/16
8X-305	4	Screw, Brush Lead, Rd. Hd. #8-32x1/4
8X-361	2	Washer, Plain, Brush Plate Screw
X-1270	1	Washer, Plate Adj. Sc., Skpf. #10
12X-1276	4	Lockwasher, Brush Lead Screw, Skpf. #8
8X-118	6	Screw, C.E. Head, Fill. Hd. #10-32x3/4
12X-196	10	Lockwasher, Head Screw & Cover Screw, #10
12X-199	1	Lockwasher, Brg. Retaining Sc., 1/4
8X-870	4	Screw, Cover, Fill. Hd. #10-32x5/16
X-3206	1	Bearing, Ball, Sealed

Armature Assembly & Parts Used With		
Part No.	No. Used	Name of Part
GBG-49	2	Spacer, Arm. Shaft, C. E. & D. E.
MCP-2006AF	1	Armature
X-261	2	Key, Woodruff, D. E., #6

Miscellaneous Parts		
Part No.	No. Used	Name of Part
GBG-1144B	1	Head Assy., D. E.
GBG-56	1	Retainer, Bearing
GBG-144B	1	Head, D. E.
8X-119	4	Screw, Retainer, Fill. Hd. #10-32x1/2
12X-196	4	Lockwasher, Retainer Sc., #10
X-3206	1	Bearing, Ball, Sealed
MBS-24A	1	Band Cover
8X-118	6	Screw, D. E. Head, Fill. Hd. #10-32x3/4
12X-196	6	Lockwasher, Head Sc., #10
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-2012AS.

UNIT	APPLICATION
MCP-4006	Automatic Trans.

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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

MCP-4007 MOTOR PARTS LIST

MCP-4007
(Issued 8-27-54)

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
MCP-2056	1	Frame & Field Assembly	8X-208	1	Screw, Plate Adj. , Hex. Hd. #10-32x9/16
GFR-44	8	Screw, Pole Shoe	8X-305	4	Screw, Brush Lead, Rd. Hd. #8-32x1/4
MCP-25	4	Bushing, Ins. , Lead	8X-361	2	Washer, Plain, Br. Plate Screw
MCP-28D	1	Lead, Field Coil, 29 1/4"	X-1270	1	Washer, Plate Adj. Screw, Skpf. #10
MCP-28E	1	Lead, Field Coil, 32 5/8"	X-1276	4	Washer, Br. Lead Screw, Skpf. #8
MCP-41	2	Insulation, Field Connection	12X-199	6	Lockwasher, Head Screw, 1/4
MCP-53A	1	Lead Assy. , Brush, 10 1/2"	8X-879	6	Screw, C.E. Head, Fill. Hd. 1/4-20x5/8
X-1743	2	Terminal	X-3204	1	BEARING, BALL, SEALED
MCP-54A	1	Lead Assy. , Brush, 10 3/4"	<u>Armature Assembly & Parts Used With</u>		
X-1743	2	Terminal	MCP-2059F	1	ARMATURE
MCP-3005AS	1	FIELD COIL PACKAGE	<u>Miscellaneous Parts</u>		
MCP-35	2	Connector, Field Coil	MCP-60	1	Head, Drive End
MCP-1007A	1	Coil, Field, U. L.	MCP-62	1	Collar, Arm. Shaft, D. E.
MCP-1008A	1	Coil, Field, L. R.	MCP-63	*	Washer, Thrust, Comm. End
MCP-1009B	1	Coil, Field, L. L.	MCP-1024	1	Band, Cover
MCP-1010B	1	Coil, Field, U. R.	12X-199	6	Lockwasher, Head Screw, 1/4
MN-21	1	Pin, Dowel	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
X-1658	4	Terminal	8X-794	1	Nut, Cover Band, Sq. #10-32
<u>Comm. End Head Assembly & Parts Used With</u>			8X-880	6	Screw, D.E. Head, Fill. Hd. 1/4-20x1
MCP-2061	1	Head Assy. , Comm. End	X-3204	1	BEARING, BALL, SEALED
DA-38	2	Washer, Spring, Brush Plate Screw	XA-752	1	Ring, Retaining
DE-85	1	Washer, Steel, Plate Adj. Screw	† BRUSH SET, SERVICE MCP-2012S.		
GBG-41	2	Screw, Brush Plate	* Use as required.		
GBG-51	2	Washer, Plain, Br. Plate Screw			
GK-151	1	Washer, Plain, Plate Adj. Screw			
MCP-61	1	Head, C. E.			
MCP-1012†	4	Brush			
MCP-1031	1	Plate Assy. , Brush Holder			
GBG-18R	4	Holder, Brush			
GBG-40	4	Terminal, Brush Holder			
GBG-85	4	Stud, Brush Holder			
GBG-1037	4	Arm, Brush			
MCP-19	4	Spring, Brush			
8X-173	4	Nut, Brush Stud, Hex. #10-32			
12X-196	4	Lockwasher, Brush Stud, #10			

UNIT	APPLICATION
MCP-4007	Clark Equipment

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCP-4008 MOTOR PARTS LIST

MCP-4008
(Issued 3-1-55)

Frame & Field Assembly & Parts Used With		
Part No.	No. Used	Name of Part
MCP-2032A	1	Frame & Field Assembly
GFR-44	8	Screw, Pole Shoe
MCP-25	4	Bushing, Insulating
MCP-26	1	Lead Assembly
X-1743	2	Terminal
MCP-27	1	Lead Assembly
X-1743	2	Terminal
MCP-28	1	Lead, Field Coil, 8 1/2"
MCP-28A	1	Lead, Field Coil, 16 1/4"
MCP-41	2	Insulation, Field Connection
MCP-50	1	Bracket
MCP-3005AS	1	FIELD COIL PACKAGE
MCP-35	2	Connector, Field Coil
MCP-1007A	1	Coil, Field, U. L.
MCP-1008A	1	Coil, Field, L. R.
MCP-1009B	1	Coil, Field, L. L.
MCP-1010B	1	Coil, Field, U. R.
SP-172	3	Grommet
12X-196	2	Lockwasher, Bracket
8X-902	2	Screw, Bracket Mtg., Fill. Hd. #10-32x3/8
X-1658	2	Terminal
X-3064	1	Terminal
X-3065	1	Terminal
Comm. End Head Assembly & Parts Used With		
DA-60	1	Screw, Bearing Retaining
GBG-46	1	Washer, Spring
GBG-47	1	Washer, Felt
GBG-48	2	Retainer, Felt Washer
GBG-63	1	Cover, Comm. End
GBG-64	1	Gasket, Comm. End Cover
GBG-66	1	Washer, Bearing Retaining
MCP-2093A	1	Head Assy., Comm. End
DA-38	2	Washer, Spring, Brush 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-93A	1	Head, C. E.
GK-151	1	Washer, Plain, Plate Adj. Screw
MCP-1012†	4	Brush
MCP-1031	1	Plate Assy., Br. Holder
GBG-18R	4	Holder, Brush
GBG-40	4	Terminal, Brush Holder
GBG-85	4	Stud, Brush Holder
GBG-1037	4	Arm, Brush
MCP-19	4	Spring, Brush
8X-173	4	Nut, Br. Stud, Hex. #10-32
12X-196	4	Lockwasher, Brush Stud, #10

Comm. End Head Assembly (Continued)		
Part No.	No. Used	Name of Part
8X-208	1	Screw, Plate Adj., Hex. Hd. #10-32x9/16
8X-305	4	Screw, Brush Lead, Rd. Hd. #8-32x1/4
8X-361	2	Washer, Plain, Br. Plate Screw
X-1270	1	Washer, Plate Adj. Screw, Skpf. #10
X-1276	4	Washer, Br. Lead Screw, Skpf. #8
8X-118	6	Screw, C. E. Head, Fill. Hd. #10-32x3/4
12X-196	10	Lockwasher, Head Screw & Cover Screw, #10
12X-199	1	Lockwasher, Brg. Retaining Screw, 1/4
X-440	1	BEARING, BALL, SHIELDED, S. A. E. #305
8X-870	4	Screw, Cover, Fill. Hd. #10-32x5/16

Armature Assembly & Parts Used With

GBG-49	1	Spacer, Arm. Shaft, C. E.
MCP-2021F	1	ARMATURE

Miscellaneous Parts

MCP-23	1	Washer, Steel
MCP-30	1	Head, Drive End
MCP-1024A	1	Band, Cover
12X-199	6	Lockwasher, Head Screw, 1/4
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32
8X-3019	6	Screw, D. E. Head, Fill. Hd. 1/4-28x11/16
X-3020	1	BEARING, SEALED
8X-3163	1	Nut, D. E. Armature Shaft, Hex. 5/8-18
XA-752	1	Ring, Retaining

† BRUSH SET, SERVICE MCP-2012S.

UNIT	APPLICATION
MCP-4008	Yale & Towne

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCP - 4009 MOTOR PARTS LIST

MCP - 4009
(Issued 9 - 25 - 56)

Frame & Field Assembly & Parts used With

Part No.	No. Used	Name of Part
MCP - 2056	1	Frame & Field Assy.
GFR - 44	8	Screw, Pole Shoe
MCP - 25	4	Bushing, Ins., Lead
MCP - 28D	1	Lead, Field Coil, 29 1/4"
MCP - 28E	1	Lead, Field Coil, 32 5/8"
MCP - 41	2	Insulation, Field Connection
MCP - 53A	1	Lead Assy., Brush, 10 1/2"
X - 1743	2	Terminal
MCP - 54A	1	Lead Assy., Brush, 10 3/4"
X - 1743	2	Terminal
MCP - 3005AS	1	FIELD COIL PACKAGE
MCP - 35	2	Connector, Field Coil
MCP - 1007A	1	Coil, Field, U. L.
MCP - 1008A	1	Coil, Field, L. R.
MCP - 1009B	1	Coil, Field, L. L.
MCP - 1010B	1	Coil, Field, U. R.
MN - 21	1	Pin, Dowel
X - 1658	4	Terminal

Comm. End Head Assembly & Parts Used With

MCP - 2065	1	Head Assy., Comm. End
DA - 38	2	Washer, Spring, Brush Plate Sc.
DE - 85	1	Washer, Steel, Plate Adj. Sc.
GBG - 41	2	Screw, Brush Plate
GBG - 51	2	Washer, Plain, Br. Plate Screw
GK - 151	1	Washer, Plain, Plate Adj. Sc.
MCP - 65	1	Head, C. E.
MCP - 1012 †	4	Brush
MCP - 1031	1	Plate Assy., Br. Holder
GBG - 18R	4	Holder, Brush
GBG - 40	4	Terminal, Brush Holder
GBG - 85	4	Stud, Brush Holder
GBG - 1037	4	Arm, Brush
MCP - 19	4	Spring, Brush
8X - 173	4	Nut, Brush Stud, Hex. #10 - 32
12X - 196	4	Lockwasher, Brush Stud, #10
8X - 208	1	Screw, Plate Adj., Hex. Hd. #10 - 32x9/16
8X - 305	4	Screw, Brush Lead, Rd. Hd. #8 - 32x1/4

Comm. End Head Assembly (Con't)

Part No.	No. Used	Name of Part
8X - 361	2	Washer, Plain, Br. Plate Sc.
X - 1270	1	Washer, Plate Adj. Sc., Skpf. #10
X - 1276	4	Washer, Br. Lead Sc., Skpf. #8
12X - 199	6	Lockwasher, C. E. Head Sc., 1/4
8X - 879	6	Screw, C. E. Head, Fill Hd. 1/4 - 20x5/8

Armature Assembly & Parts Used With

MCP - 2059F 1 ARMATURE

Miscellaneous Parts

MCP - 62	1	Collar, Arm. Shaft, D. E.
MCP - 63	*	Washer, Thrust, Comm. End
MCP - 64	1	Head, Drive End
MCP - 1024	1	Band, Cover
12X - 199	6	Lockwasher, D. E. Head Sc., 1/4
8X - 714	1	Screw, Cover Band, Rd. Hd. #10 - 32x1 1/2
8X - 794	1	Nut, Cover Band, Square #10 - 32
8X - 880	6	Screw, D. E. Head, Fill. Hd. 1/4 - 20x1
X - 3204	2	BEARING, BALL, SEALED
XA - 752	1	Ring, Retaining

† BRUSH SET, SERVICE MCP - 2012S.

* Use as required.

UNIT	APPLICATION
MCP - 4009	Clark Equip. Co.

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCP-4010 MOTOR PARTS LIST

MCP-4010
(Issued 9-25-56)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
MCP-2068	1	Frame & Field Assy.
GBG-23	2	Stud, Terminal
GCY-28	4	Bushing, Ins., Term. Stud
GEB-23	4	Insulation, Field Coil
GFR-44	8	Screw, Pole Shoe
MBS-26	1	Lead Assy.
MBS-14	1	Clip, Terminal
X-1743	2	Terminal
MBS-27	1	Lead Assy.
MBS-14	1	Clip, Terminal
X-1743	2	Terminal
MBS-33	2	Insulation, Term. Stud
MBS-37	2	Insulation, Term. Stud
MBS-38	2	Stud, Terminal
MCP-3005S	1	FIELD COIL PACKAGE
MCP-35	2	Connector, Field Coil
MCP-1007	1	Coil, Field, U. L.
MCP-1008	1	Coil, Field, L. R.
MCP-1009	1	Coil, Field, L. L.
MCP-1010	1	Coil, Field, U. R.
MU-36	4	Washer, Ins., Term. Stud
MU-37	4	Washer, Plain, Term. Stud, 5/16
12X-1014	8	Lockwasher, Term. Stud, 5/16
8X-1376	8	Nut, Term. Stud, Hex. 5/16-24

Comm. End Head Assembly & Parts Used With

DA-60	1	Screw, Bearing Retaining
GBG-46	1	Washer, Spring
GBG-47	1	Washer, Felt
GBG-48	2	Retainer, Felt Washer
GBG-66	1	Washer, Bearing Retaining
MCP-2029	1	Head Assy., Comm. End
DA-38	2	Washer, Spring, Br. Plate Sc.
DE-85	1	Washer, Steel, Plate Adj. Sc.
GBG-41	2	Screw, Brush Plate
GBG-51	2	Washer, Plain, Br. Plate Sc.
GK-151	1	Washer, Plain, Plate Adj. Sc.
MCP-29	1	Head, C. E.
MCP-1012 †	4	Brush
MCP-1031	1	Plate Assy., Br. Holder

Comm. End Head Assembly (Con't)

Part No.	No. Used	Name of Part
GBG-18R	4	Holder, Brush
GBG-40	4	Terminal, Brush Holder
GBG-85	4	Stud, Brush Holder
GBG-1037	4	Arm, Brush
MCP-19	4	Spring, Brush
8X-173	4	Nut, Brush Stud, Hex. #10-32
12X-196	4	Lockwasher, Brush Stud, #10
8X-208	1	Screw, Plate Adj., Hex. Hd. #10-32x9/16
8X-305	4	Screw, Brush Lead, Rd. Hd. #8-32x1/4
8X-361	2	Washer, Plain, Br. Plate Sc.
X-1270	1	Washer, Plate Adj. Sc., Skpf. #10
X-1276	4	Washer, Br. Lead Sc., Skpf. #8
8X-119	6	Screw, C. E. Head, Fill. Hd. #10-32x1/2
12X-196	6	Lockwasher, Head Screw, #10
12X-199	1	Lockwasher, Brg. Retaining Sc., 1/4
X-440	1	BEARING, BALL, SHIELDED, S. A. E. #305

Armature Assembly & Parts Used With

GBG-49	1	Spacer, Arm. Shaft, C. E.
MCP-2020F	1	ARMATURE

Miscellaneous Parts

MCP-1066	1	Head Assy., Drive End
MBD-182B	3	Screw, Cover, Hex. Hd. 1/4-20x1/2
MCP-18	1	Cover
MCP-66	1	Head
12X-199	3	Lockwasher, Cover Sc., 1/4
X-3303	1	BEARING, BALL, SEALED
MCP-1069	1	Band, Cover
12X-196	6	Lockwasher, Head Sc., #10
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32
8X-898	6	Screw, D. E. Head, Fill Hd. #10-32x1

† Brush Set, Service MCP-2012S

UNIT	APPLICATION
MCP-4010	Automatic Transportation Co.

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCR-4002 LIFT MOTOR PARTS LIST

MCR-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
(MCR-2001)	1	Frame & Field Assy.	MAD-47	1	Washer, Thrust, D.E.
CB-157	1	Washer, Ins., Term. Stud, Inner	MAK-61	1	Washer, Thrust, Comm. End
GK-38	4	Screw, Pole Shoe	MAW-2152	1	ARMATURE
MAB-31	3	Washer, Ins., Term. Stud, Outer	MU-54	1	Spacer, Arm. Shaft
MAB-85	1	Bushing, Ins., Term. Stud	<u>Miscellaneous Parts</u>		
MAB-118	1	Terminal	MAB-1024E	1	Band, Cover
MAB-119	1	Insulation, Term. Stud	MAY-2148A	1	Head Assy., Drive End
MAK-80	2	Washer, Ins., Term. Stud, Inner	MAY-149	4	Stud
MAX-47	2	Stud, Terminal	MAY-1148A	1	Head Assy., Partial, Drive End
MBY-12†	1	Brush	ML-18A	1	BEARING, ABS. BRONZE
MBY-13†	2	Brush, Grounded	X-489	1	Oiler
MCR-12†	1	Brush	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x 1 1/2
MCR-3005S	1	FIELD COIL PACKAGE	8X-794	1	Nut, Cover Band, Square #10-32
MAX-64	2	Connector, Field Coil	† BRUSH SET, SERVICE MCR-2012S.		
MCR-1007	1	Coil, Field, U.L.			
MCR-1008	1	Coil, Field, L.R.			
MCR-1009	1	Coil, Field, L.L.			
MCR-1010	1	Coil, Field, U.R.			
MN-21	2	Pin, Dowel			
MU-28	1	Stud, Terminal			
MU-31	2	Bushing, Ins., Term. Stud			
MU-37	3	Washer, Plain, Term. Stud, 5/16			
8X-61	2	Screw, Brush Ground, Flat Hd. #10-32x7/16			
12X-1014	6	Lockwasher, Term. Stud, 5/16			
8X-1376	6	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>					
MAX-2002	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			

UNIT	APPLICATION
MCR-4002	U.S. Machine

(Issued 4-19-50)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCT-6101 STARTING MOTOR PARTS LIST

MCT-6101
(Issued 10-9-50)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru
(MCT-2032)	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAB-12 †	2	Brush
MAB-31A	1	Washer, Ins., Term. Stud, Outer
MAB-85	1	Bushing, Ins., Term. Stud
MAX-67	1	Insulation, Field Conn., D.E.
MAY-33	1	Connector
MCH-13 †	2	Brush, Grounded
MCJ-39A	1	Washer, Ins., Term. Stud, Inner
MCL-30	1	Insulation, Field Connection
MCT-34	1	Stud, Terminal
MCT-3005S	1	FIELD COIL PACKAGE
MAX-64	2	Connector, Field Coil
MAY-1008A	1	Coil, Field, L.R.
MAY-1009A	1	Coil, Field, L.L.
MCL-1007F	1	Coil, Field, U.L.
MCT-1010	1	Coil, Field, U.R.
MN-21	2	Pin, Dowel
MU-37	1	Washer, Plain, Term. Stud, 5/16
8X-164	1	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
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

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

Armature Assembly & Parts Used With

MCT-2039	1	ARMATURE ASSY.
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
MCH-63	1	Connector
SS-4214	1	SOLENOID STARTING SWITCH (See Separate List For Parts)
12X-201	2	Lockwasher, Switch Term., 3/8
8X-830	2	Nut, Switch Term. Hex. 3/8-16
X-3002	4	Screw, Switch Mtg., Hex. Hd. 1/4-20x3/8

Clutch Assembly & Parts Used With

MAX-71	1	Pin, Yoke
MCH-58	2	Retainer, Yoke Spring
MCH-62	1	Spring, Yoke
MCH-76	1	Pin, Link
MCH-2056	1	Yoke
MCL-3098A	1	CLUTCH, STARTER
12X-201	1	Lockwasher, Yoke Pin, 3/8
X-401	1	Pin, Cotter, Link Pin, 1/16x3/8
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-1294B	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 MAB-2012CS.

* Use as required.

UNIT	APPLICATION
MCT-6101	Chrysler (Industrial)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCT-6103 STARTING MOTOR PARTS LIST

MCT-6103

(Issued 10-3-55)

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
GJ-20	2	Bolt, Thru	MCH-96	1	Washer, Thrust, Comm. End
MCT-2114A	1	Frame & Field Assy.	MCT-2070	1	ARMATURE
GK-38	4	Screw, Pole Shoe	MN-18	1	Washer, Thrust, Drive End
MAB-12 †	1	Brush	MU-54	*	Washer, Thrust, C. E. , 1/32" Thick
MAB-12C †	1	Brush	MU-54B	*	Washer, Thrust, C. E. , 3/64" Thick
MAB-31A	1	Washer, Ins. , Term. Stud, Outer	<u>Switch Assembly & Parts Used With</u>		
MAB-85	1	Bushing, Ins. , Term. Stud	MCH-90	1	Connector
MAX-67	2	Insulation, Field Connection	SSY-4101	1	SOLENOID STARTING SWITCH (See separate list for parts)
MCH-13 †	2	Brush, Grounded	12X-200	1	Lockwasher, Switch Terminal, 5/16
MCJ-39A	1	Washer, Ins. , Term. Stud, Inner	8X-467	4	Screw, Switch Mtg. , Hex. Hd. 1/4-20x3/8
MCT-34	1	Stud, Terminal	X-1272	4	Washer, Switch Mtg. Sc. , Skpf. 1/4
MCT-35	1	Connector, Brush	8X-2988	1	Nut, Switch Terminal, Hex. 5/16-18
MCT-3005S	1	FIELD COIL PACKAGE	<u>Clutch Assembly & Parts Used With</u>		
MAX-64	2	Connector, Field Coil	MCH-76	1	Pin, Link
MAY-1008A	1	Coil, Field, L. R.	MCH-77	1	Pin, Yoke
MAY-1009A	1	Coil, Field, L. L.	MCH-2074	1	Yoke
MCL-1007F	1	Coil, Field, U. L.	MCL-3075	1	CLUTCH, STARTER
MCT-1010	1	Coil, Field, U. R.	X-401	1	Pin, Cotter, Link Pin, 1/16x3/8
MN-21	2	Pin, Dowel	X-406	1	Pin, Cotter, Yoke Pin, 3/32x1/2
MU-37	1	Washer, Plain, Term. Stud, 5/16	<u>Miscellaneous Parts</u>		
12X-196	2	Lockwasher, Br. Ground Sc. , #10	MCH-1024	1	Band, Cover
8X-321	2	Screw, Br. Ground, Rd. Hd. #10-32x5/16	MCS-46	1	Retainer & Pinion Stop
12X-1014	1	Lockwasher, Term. Stud, 5/16	MCS-47A	1	Ring, Snap, Retainer & Pinion Stop
8X-2988	1	Nut, Term. Stud, Hex. 5/16-18	PS-1309A	1	Housing Assy. , Pinion
12X-199	2	Lockwasher, Thru Bolt, 1/4	MP-41A	1	BEARING, ABS. BRONZE
12X-200	1	Lockwasher, Term. Stud, 5/16	<u>Comm. End Head Assembly & Parts Used With</u>		
8X-2988	1	Nut, Term. Stud, Hex. 5/16-18	MCL-2030	1	Head Assy. , Comm. End
<u>Comm. End Head Assembly & Parts Used With</u>			MAD-110	1	Felt
MCL-2030	1	Head Assy. , Comm. End	MZ-19	4	Spring, Brush
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			

† BRUSH SET, SERVICE MAB-2012HS.

* Use as required.

UNIT	APPLICATION
MCT-6103	Chrysler Ind.

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCT-6105M STARTING MOTOR PARTS LIST

MCT-6105M
(Issued 2-5-54)

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	DA-22A	1	Washer, Gear Retaining Sc.
MCT-3118S	1	Frame & Field Assembly	DA-60B	1	Screw, Gear Retaining
GK-38C	4	Screw, Pole Shoe	EBB-26A	1	BENDIX DRIVE
MAB-12B†	1	Brush	MAB-1024NS	1	Band, Cover
MAB-12C†	1	Brush	MCL-63	1	Shaft, Bendix Drive
MAB-31A	1	Washer, Ins., Term. Stud, Outer	MCL-100	2	Gear
MAB-85	1	Bushing, Ins., Term. Stud	MCL-101	1	Plate, Intermediate
MAX-64	2	Connector, Field Coil	MCL-102	1	Gasket, Int. Plate
MAX-67	2	Insulation, Field Connection	MCL-103	1	Gasket, Housing
MAY-1008AS	1	COIL, FIELD, L. R.	MCL-1104S	1	BEARING ASSY. INTERMEDIATE
MAY-1009AS	1	COIL, FIELD, L. L.	MAK-39	1	Bearing, Abs. Bronze
MCH-13†	2	Brush, Grounded	PS-1321S	1	Housing Assy., Pinion
MCJ-39A	1	Washer, Ins., Term. Stud, Inner	MP-41A	1	BEARING, ABS. BRONZE
MCL-1007FS	1	COIL, FIELD, U. L.	19X-66	4	Screw, Int. Plate, Flat Hd. #10-32x1/2
MCT-34A	1	Stud, Terminal	19X-93	6	Screw, Pinion Housing, Hex. Hd. 5/16-18x1
MCT-35	1	Connector, Brush	12X-199	1	Lockwasher, Gear Retaining Sc., 1/4
MCT-1010S	1	COIL, FIELD, U. R.	12X-1014	6	Lockwasher, Pinion Housing Sc., 5/16
MN-21A	2	Pin, Dowel	X-1621	4	Washer, Int. Plate Sc., Skpf. #10
MU-37G	1	Washer, Plain, Term. Stud	X-2875	1	Nut, Cover Band, Square #10-32
X-20	2	Screw, Brush Ground, Rd. Hd. #10-32x5/16	X-2882	1	Screw, Cover Band, Fill. Hd. #10-32x1 1/2
12X-196	2	Lockwasher, Br. Ground Sc., #10	XA-813	1	Oil Seal
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			
<u>Comm. End Head Assembly & Parts Used With</u>			† BRUSH SET, SERVICE MAB-2012GS.		
MCL-3002BS	1	Head Assy., Comm. End	* Use as Required.		
MAD-110	1	Felt			
MZ-19A	4	Spring, Brush			
<u>Armature Assembly & Parts Used With</u>					
MAK-54	1	Washer, Thrust, Int., 1/32" Thick			
MCT-2079M	1	ARMATURE			
MN-18	*	Washer, Thrust, D. E., .065" Thick			
MN-18E	*	Washer, Thrust, D. E., .095" Thick			
X-261C	3	Key, Woodruff, D. E., #6			

UNIT	APPLICATION
MCT-6105M	Chrysler Marine

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCT-6106M STARTING MOTOR PARTS LIST

MCT-6106M
(Issued 2-5-54)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GJ-20A	2	Bolt, Thru
MCT-2118S	1	Frame & Field Assembly
GK-38C	4	Screw, Pole Shoe
MAB-12†	1	Brush
MAB-12C†	1	Brush
MAB-31A	1	Washer, Ins. , Term. Stud, Outer
MAB-85	1	Bushing, Ins. , Term. Stud
MAX-64	2	Connector, Field Coil
MAX-67	2	Insulation, Field Connection
MAY-1008AS	1	COIL, FIELD, L. R.
MAY-1009AS	1	COIL, FIELD, L. L.
MCH-13†	2	Brush, Grounded
MCJ-39A	1	Washer, Ins. , Term. Stud, Inner
MCL-1007FS	1	COIL, FIELD, U. L.
MCT-34A	1	Stud, Terminal
MCT-35	1	Connector, Brush
MCT-1010S	1	COIL, FIELD, U. R.
MN-21A	2	Pin, Dowel
MU-37G	1	Washer, Plain, Term. Stud
X-20	2	Screw, Brush Ground, Rd. Hd. #10-32x5/16
12X-196	2	Lockwasher, Br. Ground Sc. , #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

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

Armature Assembly & Parts Used With

MAK-54	1	Washer, Thrust, Int. , 1/32" Thick
MCT-2079M	1	ARMATURE
MN-18	*	Washer, Thrust, D.E. , .065" Thick
MN-18E	*	Washer, Thrust, D. E. , .095" Thick
X-261C	3	Key, Woodruff, D. E. , #6

Miscellaneous Parts

Part No.	No. Used	Name of Part
DA-22A	1	Washer, Gear Retaining Sc.
DA-60B	1	Screw, Gear Retaining
EBB-32A	1	BENDIX DRIVE
MAB-1024NS	1	Band, Cover
MCL-63	1	Shaft, Bendix Drive
MCL-100	2	Gear
MCL-101	1	Plate, Intermediate
MCL-102	1	Gasket, Int. Plate
MCL-103	1	Gasket, Housing
MCL-1104S	1	BEARING ASSY. , INTERMEDIATE
MAK-39	1	Bearing, Abs. Bronze
PS-1321S	1	Housing Assy. , Pinion
MP-41A	1	BEARING, ABS. BRONZE
19X-66	4	Screw, Int. Plate, Flat Hd. #10-32x1/2
19X-93	6	Screw, Pinion Housing, Hex. Hd. 5/16-18x1
12X-199	1	Lockwasher, Gear Retaining Sc. , 1/4
12X-1014	6	Lockwasher, Pinion Housing Sc. , 5/16
X-1621	4	Washer, Int. Plate Sc. , Skpf. #10
X-2875	1	Nut, Cover Band, Square #10-32
X-2882	1	Screw, Cover Band, Fill. Hd. #10-32x1 1/2
XA-813	1	Oil Seal

† BRUSH SET, SERVICE MAB-2012HS.

* Use as Required.

UNIT	APPLICATION
MCT-6106M	Chrysler Marine

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCT-6109T STARTING MOTOR PARTS LIST

MCT-6109T
(Issued 3-1-55)

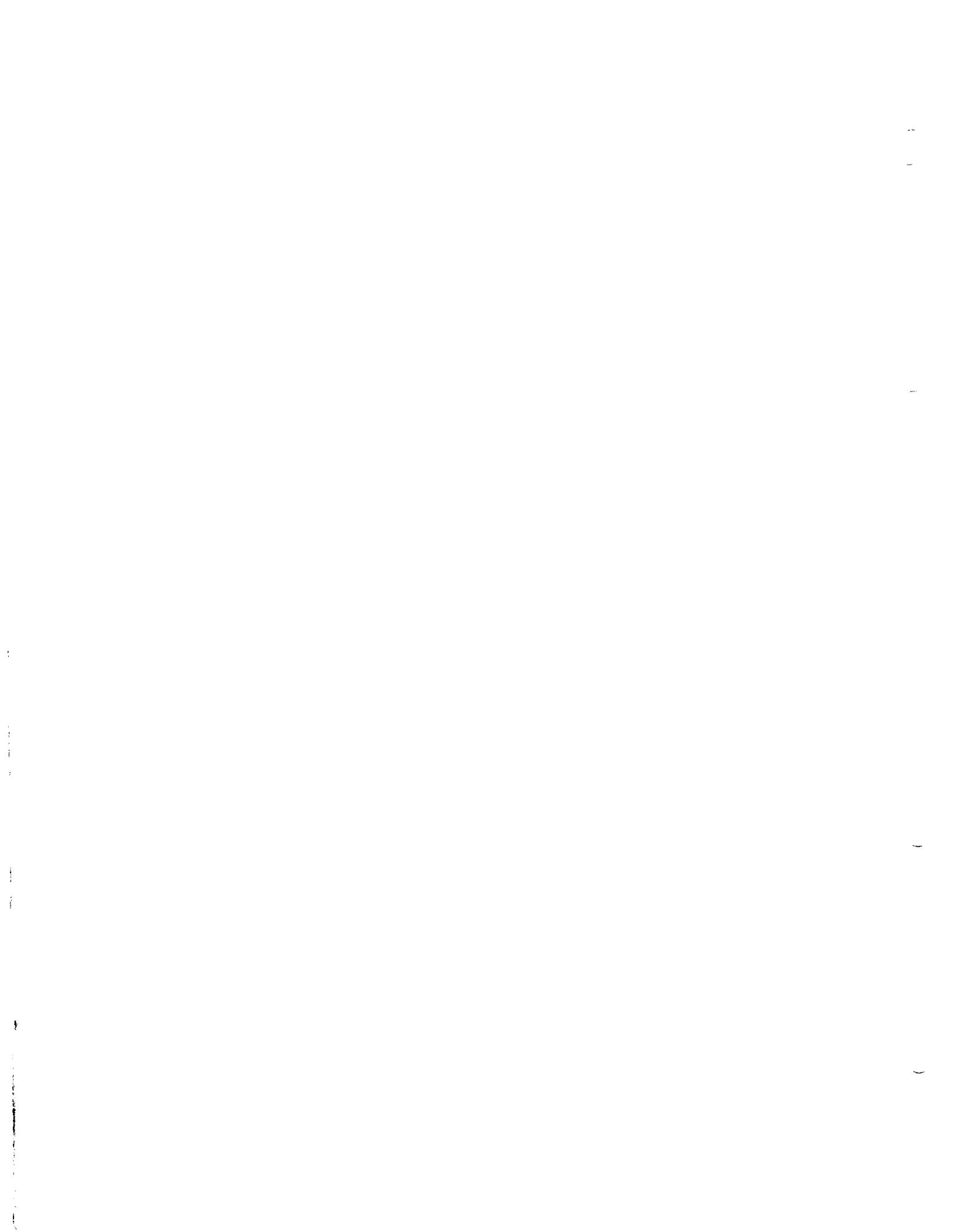
Frame & Field Assembly & Parts Used With			Clutch Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20B	2	Bolt, Thru	MCH-76A	1	Pin, Link
**MCT-2120S	1	Frame & Field Assembly	MCH-77A	1	Pin, Yoke
MAB-2012JS	1	BRUSH SET	MCH-2074D	1	Yoke
X-20	2	Screw, Br. Ground, Rd. Hd. #10-32x5/16	MCS-3075	1	STARTER CLUTCH
12X-196	2	Lockwasher, Br. Ground, #10	X-401A	1	Pin, Cotter, Link Pin, 1/16x3/8
12X-199	2	Lockwasher, Thru Bolt, 1/4	X-406A	1	Pin, Cotter, Yoke Pin, 3/32x1/2
12X-200	1	Lockwasher, Term. Stud, 5/16			
X-3130	1	Nut, Term. Stud, Hex. 5/16-18			<u>Miscellaneous Parts</u>
<u>Comm. End Head Assembly & Parts Used With</u>			MCH-1024B	1	Band, Cover
MCL-2030C	1	Head Assy., Comm. End	MCS-46A	1	Retainer & Pinion Stop
MAD-110	1	Felt	MCS-47A	1	Ring, Snap, Retainer & Pinion Stop
MZ-19C	4	Spring, Brush	PS-1325	1	Housing Assy., Pinion
<u>Armature Assembly & Parts Used With</u>			MP-41A	1	BEARING, ABS. BRONZE
MCH-96	1	Washer, Thrust, Comm. End			
MCT-2070A	1	ARMATURE			* Use as required.
MN-18A	1	Washer, Armature Thrust, D. E.			**NOTE: Due to the method of installing field coils and other components in the frame and field of fungus resistant assemblies, it is necessary to replace the frame and field assembly if field coils are required.
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-65	1	Connector			
SSY-4102T	1	SOLENOID STARTING SWITCH (See Separate List for Parts)			
12X-199	4	Lockwasher, Mtg. Screw, 1/4			
12X-200	1	Lockwasher, Switch Term., 5/16			
X-467A	4	Screw, Switch Mtg., Hex. Hd. 1/4-20x3/8			
X-3130	1	Nut, Switch Term., Hex. 5/16-18			

UNIT	APPLICATION
MCT-6109T	Chrysler (Ind.)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCT-6110 STARTING MOTOR PARTS LIST

MCT-6110

(Issued 10-3-55)

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
GJ-20	2	Bolt, Thru	MCH-90	1	Connector
MCT-2114A	1	Frame & Field Assy.	SSY-4101	1	SOLENOID STARTING SWITCH (See separate list for parts)
GK-38	4	Screw, Pole Shoe	12X-200	1	Lockwasher, Switch Terminal, 5/16
MAB-12 †	1	Brush	8X-467	4	Screw, Switch Mtg. , Hex. Hd. 1/4-20x3/8
MAB-12C †	1	Brush	X-1272	4	Washer, Switch Mtg. Sc. , Skpf. 1/4
MAB-31A	1	Washer, Ins. , Term. Stud, Outer	8X-2988	1	Nut, Switch Terminal, Hex. 5/16-18
MAB-85	1	Bushing, Ins. , Term. Stud	<u>Clutch Assembly & Parts Used With</u>		
MAX-67	2	Insulation, Field Connection	MCH-76	1	Pin, Link
MCH-13 †	2	Brush, Grounded	MCH-77	1	Pin, Yoke
MCJ-39A	1	Washer, Ins. , Term. Stud, Inner	MCH-2074	1	Yoke
MCT-34	1	Stud, Terminal	MCL-3121A	1	CLUTCH, STARTER
MCT-35	1	Connector, Brush	X-401	1	Pin, Cotter, Link Pin, 1/16x3/8
MCT-3005S	1	FIELD COIL PACKAGE	X-406	1	Pin, Cotter, Yoke Pin, 3/32x1/2
MAX-64	2	Connector, Field Coil	<u>Miscellaneous Parts</u>		
MAY-1008A	1	Coil, Field, L. R.	MCH-1024	1	Band, Cover
MAY-1009A	1	Coil, Field, L. L.	MCS-46	1	Retainer & Pinion Stop
MCL-1007F	1	Coil, Field, U. L.	MCS-47A	1	Ring, Snap, Retainer & Pinion Stop
MCT-1010	1	Coil, Field, U. R.	PS-1309A	1	Housing Assy. , Pinion
MN-21	2	Pin, Dowel	MP-41A	1	BEARING, ABS. BRONZE
MU-37	1	Washer, Plain, Term. Stud, 5/16	† BRUSH SET, SERVICE MAB-2012HS.		
12X-196	2	Lockwasher, Br. Ground Sc. , #10	* Use as required.		
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			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
12X-200	1	Lockwasher, Term. Stud, 5/16			
8X-2988	1	Nut, Term. Stud, Hex. 5/16-18			
<u>Comm. End Head Assembly & Parts Used With</u>					
MCL-2020	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			
MCT-2070	1	ARMATURE			
MN-18	1	Washer, Thrust, Drive End			
MU-54	*	Washer, Thrust, C. E. , 1/32" Thick			
MU-54B	*	Washer, Thrust, C. E. , 3/64" Thick			

UNIT	APPLICATION
MCT-6110	D. W. Onan

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCT-6202M STARTING MOTOR PARTS LIST

MCT-6202M
(Issued 4-21-55)

<u>Frame & Field Assembly & Parts Used With</u>			<u>Armature Assembly & Parts Used With</u>		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20A	2	Bolt, Thru	MCT-2088M	1	ARMATURE
MCT-3046S	1	Frame & Field Assembly	MU-54F	1	Washer, Thrust, Int., 1/32" Thick
GK-38C	4	Screw, Pole Shoe	MU-54F	*	Washer, Thrust, C. E., 1/32" Thick
MAB-31A	1	Washer, Ins., Term. Stud, Outer	MU-54J	*	Washer, Thrust, C. E., .046" Thick
MAB-85	1	Bushing, Ins., Term. Stud	MU-54N	*	Washer, Thrust, C. E., 1/16" Thick
MAB-2012GS	1	BRUSH SET	X-261	1	Key, Woodruff, D. E., #6
MAX-64	2	Connector, Field Coil	<u>Switch Assembly & Parts Used With</u>		
MAX-67	2	Insulation, Field & Brush Connection	MAX-89R	1	Connector
MAY-1008AS	1	COIL, FIELD, L. R.	SSR-4001M	1	SOLENOID STARTING SWITCH
MAY-1009AS	1	COIL, FIELD, L. L.	12X-196	1	Lockwasher, #10
MCJ-39A	1	Washer, Ins., Term. Stud, Inner	12X-1014	2	Lockwasher, 5/16
MCL-1007FS	1	COIL, FIELD, U. L.	X-2843	2	Nut, Hex. 5/16-24
MCT-34A	1	Stud, Terminal	X-2853	1	Nut, Hex. #10-32
MCT-35	1	Connector Brush	X-20	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
MCT-1010S	1	COIL, FIELD, U. R.	X-1270	2	Washer, Switch Mtg., Screw Skpf. #10
MN-21A	2	Pin, Dowel	<u>Miscellaneous Parts</u>		
MU-37G	1	Washer, Plain, Term. Stud	EBB-32A	1	BENDIX DRIVE
X-20	2	Screw, Brush Ground, Rd. Hd. #10-32x5/16	MAB-1024NS	1	Band, Cover
12X-196	2	Lockwasher, Brush Ground Screw, #10	MCH-1051A	1	Bearing Assy., Intermediate
12X-1014	2	Lockwasher, Term. Stud, 5/16	PS-1291D	1	Housing Assy., Pinion
X-2976	2	Nut, Terminal Stud, Hex. 5/16-18	MG-77A	1	BEARING, ABS. BRONZE
12X-199	2	Lockwasher, Thru Bolt, 1/4	12X-196	2	Lockwasher, Int. Bearing Screw, #10
<u>Comm. End Head Assembly & Parts Used With</u>			X-2875	1	Nut, Cover Band, Square #10-32
MCL-3002A	1	Head Assy., Comm. End	X-2881	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
MAD-110	1	Felt	X-2882	1	Screw, Cover Band, Fill. Hd. #10-32x1 1/2
MZ-19A	4	Spring, Brush			

* Use as required.

UNTT	APPLICATION
MCT-6202M	Chrysler (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

MCT-6203M STARTING MOTOR PARTS LIST

MCT-6203M
(Issued 5-20-54)

Frame & Field Assembly & Parts Used With			Switch Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20A	2	Bolt, Thru	MAX-89R	1	Connector
MCT-2046S	1	Frame & Field Assembly	SSR-4001M	1	Solenoid Starting Switch
GK-38C	4	Screw, Pole Shoe	12X-196	1	Lockwasher, #10
MAB-12†	1	Brush	12X-1014	2	Lockwasher, 5/16
MAB-12C†	1	Brush	X-2843	2	Nut, Hex. 5/16-24
MAB-31A	1	Washer, Ins., Term. Stud, Outer	X-2853	1	Nut, Hex. #10-32
MAB-85	1	Bushing, Ins., Term. Stud	X-20	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
MAX-64	2	Connector, Field Coil	X-1270	2	Washer, Switch Mtg. Screw, Skpf. #10
MAX-67	2	Insulation, Field Connection			
MAY-1008AS	1	COIL, FIELD, L. R.	<u>Miscellaneous Parts</u>		
MAY-1009AS	1	COIL, FIELD, L. L.	EBB-26A	1	Bendix Drive
MCH-13†	2	Brush, Grounded	MAB-1024NS	1	Band, Cover
M CJ-39A	1	Washer, Ins., Term. Stud, Inner	MCH-1051A	1	BEARING ASSEMBLY, INTERMEDIATE
MCL-1007FS	1	COIL, FIELD, U. L.	PS-1291D	1	Housing Assy., Pinion
MCT-34A	1	Stud, Terminal	MG-77A	1	BEARING, ABSORBENT BRONZE
MCT-35	1	Connector, Brush	12X-196	2	Lockwasher, Int. Bearing Screw, #10
MCT-1010S	1	COIL, FIELD, U. R.	X-2875	1	Nut, Cover Band, Square #10-32
MN-21A	2	Pin, Dowel	X-2881	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
MU-37G	1	Washer, Plain, Term. Stud	X-2882	1	Screw, Cover Band, Fill. Hd. #10-32x1 1/2
X-20	2	Screw, Br. 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			
<u>Comm. End Head Assembly & Parts Used With</u>					
MCL-2030DS	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19A	4	Spring, Brush			
<u>Armature Assembly & Parts Used With</u>					
MCT-2088M	1	ARMATURE ASSEMBLY			
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			

† BRUSH SET, SERVICE MAB-2012HS.

* Use as required.

UNIT	APPLICATION
MCT-6203M	Chrysler Marine

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCT-6301 STARTING MOTOR PARTS LIST

MCT-6301
(Issued 10-3-55)

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
GJ-20	2	Bolt, Thru	MCL-65	1	Connector
MCT-2120A	1	Frame & Field Assy.	SSY-4102	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 Terminal, 5/16
MAB-85	1	Bushing, Ins., Term. Stud	8X-467	4	Screw, Switch Mtg., Hex. Hd. 1/4-20x3/8
MAX-67	1	Insulation, Field Connection	8X-2988	1	Nut, Switch Terminal, 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
MCT-34	1	Stud, Terminal	MCH-77	1	Pin, Yoke
MCT-1005E	1	FIELD COIL ASSY.	MCH-2074	1	Yoke
MCU-15	1	Insulation, Field Conn., D. E.	MCL-3075	1	CLUTCH, STARTER
MN-21	2	Pin, Dowel	X-401	1	Pin, Cotter, Link Pin, 1/16x3/8
MU-37	1	Washer, Plain, Term. Stud	X-406	1	Pin, Cotter, Yoke Pin, 3/32x1/2
12X-196	2	Lockwasher, Br. Ground Sc., #10	<u>Miscellaneous Parts</u>		
12X-200	2	Lockwasher, Term. Stud, 5/16	MCH-1024	1	Band, Cover
8X-321	2	Screw, Br. Ground, Rd. Hd. #10-32x5/16	MCS-46	1	Retainer & Pinion Stop
8X-2988	2	Nut, Term. Stud, Hex. 5/16-18	MCS-47A	1	Ring, Snap, Retainer & Pinion Stop
12X-199	2	Lockwasher, Thru Bolt, 1/4	PS-1325A	1	Housing Assy., Pinion
<u>Comm. End Head Assembly & Parts Used With</u>			MP-41A	1	BEARING, ABS. BRONZE
MCL-2030	1	Head Assy., Comm. End	<u>† BRUSH SET, SERVICE MDC-2012BS.</u>		
MAD-110	1	Felt	* Use as required.		
MZ-19	4	Spring, Brush			
<u>Armature Assembly & Parts Used With</u>					
MCH-96	1	Washer, Thrust, Comm. End			
MCT-2070	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			

UNIT	APPLICATION
MCT-6301	Chrysler Ind.

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCU-4001 MOTOR PARTS LIST

MCU-4001
(Issued 11-27-50)

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	MAD-47	1	Washer, Thrust, D.E.
(MCU-2001)	1	Frame & Field Assy.	MCH-2083	1	ARMATURE
GK-38	4	Screw, Pole Shoe	MU-54	2	Washer, Thrust, C.E., 1/32" Thick
MAB-30	1	Insulation, Field Connection	<u>Miscellaneous Parts</u>		
MAB-31	2	Washer, Ins., Term. Stud, Outer	MAB-1024E	1	Band, Cover
MAB-85	2	Bushing, Ins., Term. Stud	MAY-2148B	1	Head Assy., Drive End
MAY-34	2	Stud, Terminal	MAY-149	4	Stud
MCU-12 †	2	Brush	MAY-1148B	1	Head Assy., Partial, D.E.
MCU-13 †	2	Brush	ML-18A	1	BEARING, ABS. BRONZE
MCU-15	1	Insulation, Field Conn., D.E.	X-489	1	Oiler
MCU-28	1	Equalizer	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MCU-3005S	1	FIELD COIL PACKAGE	8X-794	1	Nut, Cover Band, Square #10-32
MAE-1017	2	Connector, Field Coil			
MAY-1007	1	Coil, Field, U.L.			
MCU-1008	1	Coil, Field, L.R.			
MCU-1009	1	Coil, Field, L.L.			
MCU-1010	1	Coil, Field, U.R.			
MN-21	2	Pin, Dowel			
MU-37	2	Washer, Term. Stud, Plain 5/16			
SS-13A	2	Washer, Ins., Term. Stud, Inner	† BRUSH SET, SERVICE MCU-2012S.		
12X-196	2	Lockwasher, Grd. Sc., #10			
8X-321	2	Screw, Brush Ground, Rd. Hd. #10-32x5/16			
12X-1014	4	Lockwasher, Term. Stud, 5/16			
8X-1376	4	Nut, Term. Stud, Hex. 5/16-24			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
<u>Comm. End Head Assembly & Parts Used With</u>					
MCL-3002	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			

UNIT	APPLICATION
MCU-4001	Massey Harris

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File in
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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCU-4002 STARTING MOTOR PARTS LIST

MCU-4002
(Issued 12-10-52)

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	MAB-1024E	1	Band, Cover
MCU-2001	1	Frame & Field Assy.	MCU-2003	1	Head Assy., Drive End
GK-38	4	Screw, Pole Shoe	MAY-149	4	Stud
MAB-30	1	Insulation, Field Connection	MCU-1003	1	Head Assy., Partial, D. E.
MAB-31	2	Washer, Ins., Term. Stud, Outer	ML-18A	1	BEARING, ABS. BRONZE
MAB-85	2	Bushing, Ins., Term. Stud	XA-805	1	Seal, Oil
MAY-34	2	Stud, Terminal	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MCU-12†	2	Brush	8X-794	1	Nut, Cover Band, Square #10-32
MCU-13†	2	Brush, Grounded			
MCU-15	1	Insulation, Field Conn., D. E.			
MCU-28	1	Equalizer			
MCU-3005S	1	FIELD COIL PACKAGE			
MAE-1017	2	Connector, Field Coil			
MCU-1007	1	Coil, Field, U. L.			
MCU-1008	1	Coil, Field, L. R.			
MCU-1009	1	Coil, Field, L. L.			
MCU-1010	1	Coil, Field, U. R.			
MN-21	2	Pin, Dowel			
MU-37	2	Washer, Term. Stud, Plain 5/16			
SS-13A	2	Washer, Ins., Term. Stud, Inner			
12X-196	2	Lockwasher, Grd. Sc., #10			
8X-321	2	Screw, Brush Ground, Rd. Hd. #10-32x5/16			
12X-1014	4	Lockwasher, Term. Stud, 5/16			
8X-1376	4	Nut, Term. Stud, Hex. 5/16-24			
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					
MAW-56	1	Washer, Thrust, D. E., .065" Thick			
MCH-2112	1	ARMATURE			
MCU-17	1	Washer, Thrust, D. E., 1/32" Thick			
MU-54	2	Washer, Thrust, C. E., 1/32" Thick			

† BRUSH SET, SERVICE MCU-2012S.

UNIT	APPLICATION
MCU-4002	American Chain & Cable Co.

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCU-4003 STARTING MOTOR PARTS LIST

MCU-4003
(Issued 2-5-54)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru
MCU-2001	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAB-30	1	Insulation, Field Connection
MAB-31	2	Washer, Ins. , Term. Stud, Outer
MAB-85	2	Bushing, Ins. , Term. Stud
MAY-34	2	Stud, Terminal
MCU-12†	2	Brush
MCU-13†	2	Brush, Grounded
MCU-15	1	Insulation, Field Connection D. E.
MCU-28	1	Equalizer
MCU-3005S	1	FIELD COIL PACKAGE
MAE-1017	2	Connector, Field Coil
MCU-1007	1	Coil, Field, U. L.
MCU-1008	1	Coil, Field, L. R.
MCU-1009	1	Coil, Field, L. L.
MCU-1010	1	Coil, Field, U. R.
MN-21	2	Pin, Dowel
MU-37	2	Washer, Term. Stud, Plain 5/16
SS-13A	2	Washer, Ins. , Term. Stud, Inner
12X-196	2	Lockwasher, Grd. Sc. , #10
8X-321	2	Screw, Brush Ground, Rd. Hd. #10-32x5/16
12X-1014	4	Lockwasher, Term. Stud, 5/16
8X-1376	4	Nut, Term. Stud, Hex. 5/16-24
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

Part No.	No. Used	Name of Part
MAD-47	1	Washer, Thrust, D. E.
MCH-2119	1	ARMATURE
MU-54	2	Washer, Thrust, C. E. , 1/32" Thick

Miscellaneous Parts

MAB-1024E	1	Band, Cover
MAY-2148B	1	Head Assy. , Drive End
MAY-149	4	Stud
MAY-1148B	1	Head Assy. , Partial, D. E.
ML-18A	1	BEARING, ABS. BRONZE
X-489	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 MCU-2012S.

UNIT	APPLICATION
MCU-4003	DeLux Neon

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCX-4001 SIREN MOTOR PARTS LIST

MCX-4001
(Issued 8-22-51)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
(MCX-3001)	1	Frame & Field Assy.
DK-45	1	Washer, Ins., Term. Stud, Inner
GK-38	4	Screw, Pole Shoe
MAP-12†	1	Brush, Grounded
MAW-37	1	Bushing, Ins., Term. Stud
MAX-35	1	Washer, Ins., Term. Stud, Outer
MAX-44	1	Washer, Plain, Term. Stud, 3/8
MAY-28	1	Stud, Terminal
MCL-30	1	Insulation, Field Connection
MCX-3005S	1	Field Coil Package
MAX-64	2	Connector, Field Coil
MAX-1008	1	Coil, Field, U. L.
MCX-1008	1	Coil, Field, L. R.
MCX-1009	1	Coil, Field, L. L.
MCX-1010	1	Coil, Field, U. R.
MZ-12C†	1	Brush
12X-196	1	Lockwasher, Ground Screw, #10
12X-201	1	Lockwasher, Term. Stud, 3/8
8X-321	1	Screw, Ground, Rd. Hd. #10-32x5/16
8X-830	1	Nut, Term. Stud, Hex. 3/8-16

Comm. End Head Assembly & Parts Used With

DJ-4	1	Cover, Comm. End
DJ-10	1	Gasket, C. E. Cover
MCW-3002	1	Head Assy., Comm. End
MAP-1014	1	Plate Assy., Br. Holder
MZ-19	2	Spring, Brush
MCW-2	1	Head
12X-196	2	Lockwasher, #10
8X-311	2	Screw, Rd. Hd. #10-32x3/8
12X-195	4	Lockwasher, Head Screw, #8
12X-196	3	Lockwasher, Cover Screw, #10
X-489	1	Oiler
8X-709	3	Screw, C. E. Cover, Fill. Hd. #10-32x7/16
8X-878	4	Screw, C. E. Head, Fill. Hd. #8-32x7/16

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part
DA-22	1	Washer, Bearing Retaining
DA-60	1	Screw, Bearing Retaining
GY-36	1	Washer, Thrust, Plain
MCX-2006	1	Armature
12X-199	1	Lockwasher, Brg. Retaining Sc., 1/4
X-294	1	Bearing, Ball, S. A. E. #202

Miscellaneous Parts

MAB-1024E	1	Band, Cover
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32

† BRUSH SET, SERVICE MCW-2012S.

UNIT	APPLICATION
MCX-4001	Federal Enterprises, Inc.

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCZ-4103T STARTING MOTOR PARTS LIST

MCZ-4103T
(Issued 5-20-54)

<u>Frame & Field Assembly & Parts Used With</u>		
Part No.	No. Used	Name of Part
GK-20C	2	Bolt, Thru
**MCZ-2046S	1	Frame & Field Assembly
MCS-1012S	1	BRUSH SET
X-20	2	Screw, Br. Ground, Rd. Hd. #10-32x5/16
12X-196	2	Lockwasher, Br. Ground Screw, #10
12X-199	2	Lockwasher, Thru Bolt, 1/4
12X-200	1	Lockwasher, Term. Stud, 5/16
X-3130	1	Nut, Term. Stud, Hex. 5/16-18
<u>Comm. End Head Assembly & Parts Used With</u>		
MCZ-2002	1	Head Assy., Comm. End
MAD-110	1	Felt
MZ-19C	4	Spring, Brush
<u>Armature Assembly & Parts Used With</u>		
MCH-96	1	Washer, Thrust, Comm. End
MCZ-2047F	1	ARMATURE
MN-18A	1	Washer, Arm. 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>		
MCZ-82	1	Connector
SAA-4002T	1	Solenoid Starting Switch (See Separate List For Parts)
SSX-34A	1	Spring, Plunger
SSX-36A	1	Plug, Spring
SSX-1021D	1	Moving Core Assembly
SS-60C	1	Washer, Steel, 3/8
SSX-21	1	Core, Moving
SSX-22A	1	Link Screw
SSX-35A	1	Spring, Rubber Cap
SSX-1023B	1	Clamp Assembly
X-15	1	Screw, Rd. Hd. #8-32x5/8
X-3217	1	Nut, Hex. #8-32
12X-199	4	Lockwasher, Switch Mtg. Screw, 1/4
12X-200	1	Lockwasher, Switch Term., 5/16
X-467A	4	Screw, Switch Mtg., Hex. Hd. 1/4-20x3/8
X-3130	1	Nut, Switch Term., Hex. 5/16-18

<u>Clutch Assembly & Parts Used With</u>		
Part No.	No. Used	Name of Part
MCH-76A	1	Pin, Link
MCH-2074A	1	Yoke
MCL-58A	1	Pin, Yoke
MCL-59A	1	Clamp, Yoke Cover
MCS-3075	1	Starter Clutch
MCZ-61	1	Cover, Yoke
X-401A	1	Pin, Cotter, Link Pin, 1/16x3/8
<u>Miscellaneous Parts</u>		
MCH-1024B	1	Band, Cover
MCS-46A	1	Retainer & Pinion Stop
MCS-47A	1	Ring, Snap, Retainer & Pinion Stop
PS-1309	1	Housing Assy., Pinion
MP-41A	1	BEARING, ABSORBENT BRONZE
* Use as required.		
** Due to the method of installing field coils and other components in the frame and field of fungus resistant assemblies, it is necessary to replace the frame and field assembly if field coils are required.		

UNIT	APPLICATION
MCZ-4103T	Chrysler Industrial

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MCZ-4107T STARTING MOTOR PARTS LIST

MCZ-4107T
(Issued 4-20-55)

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
GK-20C	2	Bolt, Thru	MCH-76A	1	Pin, Link
**MCZ-2081S	1	Frame & Field Assembly	MCH-77A	1	Pin, Yoke
MCS-1012S	1	BRUSH SET	MCH-2074D	1	Yoke
X-20	2	Screw, Br. Ground, Rd. Hd. #10-32x5/16	MCS-3075	1	CLUTCH, STARTER
12X-196	2	Lockwasher, Br. Ground Screw, #10	X-401A	1	Pin, Cotter, Link Pin, 1/16x3/8
12X-199	2	Lockwasher, Thru Bolt, 1/4	X-406A	1	Pin, Cotter, Yoke Pin, 3/32x1/2
12X-200	1	Lockwasher, Term. Stud, 5/16			
X-3130	1	Nut, Term. Stud, Hex. 5/16-18			
Comm. End Head Assembly & Parts Used With			Miscellaneous Parts		
MCZ-2002	1	Head Assy., Comm. End	MCH-1024B	1	Band, Cover
MAD-110	1	Felt	MCS-46A	1	Retainer & Pinion Stop
MZ-19C	4	Spring, Brush	MCS-47A	1	Ring, Snap, Retainer & Pinion Stop
Armature Assembly & Parts Used With			PS-1325	1	Housing Assy., Pinion
MCH-96	1	Washer, Thrust, Comm. End	MP-41A	1	BEARING; ABSORBENT BRONZE
MCZ-2047F	1	ARMATURE			
MN-18A	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					
MCL-50	1	Connector			
SAA-4004T	1	SOLENOID STARTING SWITCH (See Separate List for Parts)			
12X-199	4	Lockwasher, Switch Mtg. Screw, 1/4			
12X-200	1	Lockwasher, Switch Term., 5/16			
8X-467A	4	Screw, Switch Mtg., Hex. Hd. 1/4-20x3/8			
X-3130	1	Nut, Switch Term., Hex. 5/16-18			

* Use as required.

**NOTE: Due to the method of installing field coils and other components in the frame and field of fungus resistant assemblies, it is necessary to replace the frame and field assembly if field coils are required.

UNIT	APPLICATION
MCZ-4107T	Chrysler (Ind.)

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File in
Equipment & Parts List Binder

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MDB-6001 STARTING MOTOR PARTS LIST

MDB-6001
(Issued 10-7-52)

Frame & Field Assembly & Parts Used With			Switch Assembly & Parts Used With (Cont.)						
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part				
GK-20A	2	Bolt, Thru	SS-60	1	Washer, Steel, 3/8				
MDB-2001	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.				
MAY-33	1	Connector, Brush	8X-53	1	Screw, Rd. Hd. #8-32x5/8				
MCJ-39B	1	Washer, Ins., Term. Stud, Inner	8X-141	1	Nut, Hex. #8-32				
MCL-30	1	Insulation, Field Connection	SSY-4002	1	SOLENOID STARTING SWITCH (See Separate List for Parts)				
MCU-13†	2	Brush, Grounded	12X-199	4	Lockwasher, Switch Mtg. Sc., 1/4				
MDB-12†	2	Brush	12X-200	1	Lockwasher, Switch Term., 5/16				
MDB-28	1	Stud, Terminal	8X-467	4	Screw, Switch Mtg., Hex. Hd. 1/4-20x3/8				
MDB-3005S	1	FIELD COIL PACKAGE	8X-2988	1	Nut, Switch Term., Hex. 5/16-18				
MAX-64	2	Connector, Field Coil	<u>Clutch Assembly & Parts Used With</u>						
MAY-1008A	1	Coil, Field, L. R.	MCH-76	1	Pin, Link				
MAY-1009A	1	Coil, Field, L. L.	MCH-2074C	1	Yoke				
MCT-1010	1	Coil, Field, U. R.	MCL-54	1	Pin, Yoke				
MDB-1007	1	Coil, Field, U. L.	MCL-56	1	Clamp, Yoke Cover				
MN-21	2	Pin, Dowel	MCL-57	1	Cover, Yoke				
MU-37	1	Washer, Plain, Term. Stud	MCL-3075	1	CLUTCH, STARTER				
12X-196	2	Lockwasher, Brush 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, Brush 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				
MDB-2006F	1	ARMATURE	† BRUSH SET, SERVICE MDB-2012S.						
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="padding: 5px;">UNIT</th> <th style="padding: 5px;">APPLICATION</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">MDB-6001</td> <td style="padding: 5px;">Chrysler (8)</td> </tr> </tbody> </table>			UNIT	APPLICATION	MDB-6001	Chrysler (8)
UNIT	APPLICATION								
MDB-6001	Chrysler (8)								
MU-54B	*	Washer, Thrust, C. E., 3/64" Thick							
<u>Switch Assembly & Parts Used With</u>									
MDB-25	1	Connector							
SSX-34	1	Spring							
SSX-36	1	Plug							
SSX-1021B	1	Moving Core Assy.							

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File in
Equipment & Parts List Binder

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MDB-6001A STARTING MOTOR PARTS LIST

MDB-6001A
(Issued 11-3-53)

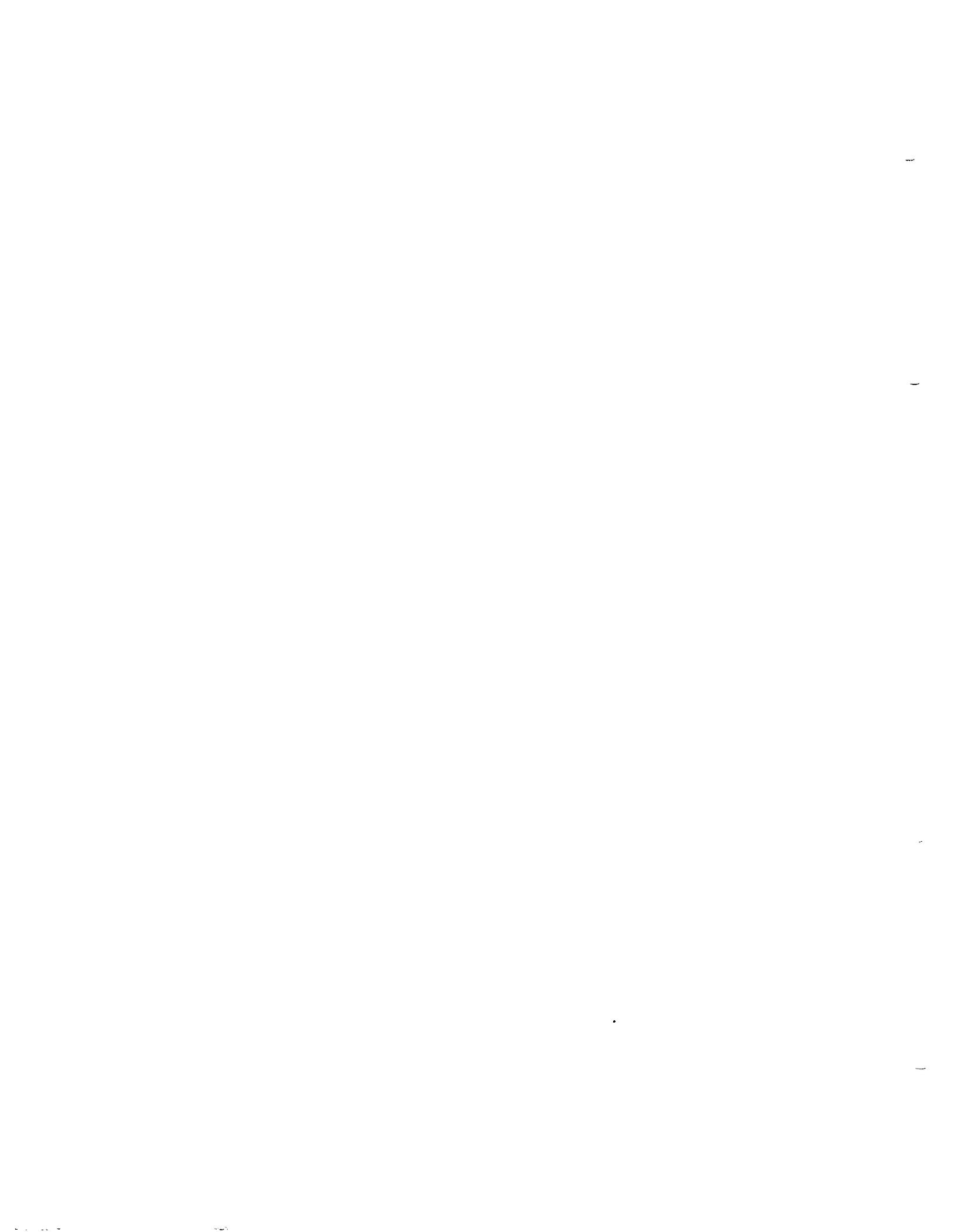
Frame & Field Assembly & Parts Used With			Switch Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GK-20A	2	Bolt, Thru	MDB-26	1	Connector
MDB-2001	1	Frame & Field Assembly	SSX-34	1	Spring
GK-38	4	Screw, Pole Shoe	SSX-36	1	Plug
MAB-31A	1	Washer, Ins. , Term. Stud, Outer	SSX-1021B	1	Moving Core Assembly
MAB-85	1	Bushing, Ins. , Term. Stud	SS-60	1	Washer, Steel, 3/8
MAX-67	1	Insulation, Field Connection, D. E.	SSX-21	1	Core, Moving
MAY-33	1	Connector, Brush	SSX-22	1	Link Screw
M CJ-39B	1	Washer, Ins. , Term. Stud, Inner	SSX-35	1	Spring
MCU-13 †	2	Brush, Grounded	SSX-1023	1	Clamp Assembly
MDB-12 †	2	Brush	8X-53	1	Screw, Rd. Hd. #8-32x5/8
MDB-28	1	Stud, Terminal	8X-141	1	Nut, Hex. #8-32
MDB-3005S	1	FIELD COIL PACKAGE	SSY-4002	1	SOLENOID STARTING SWITCH (See Separate List for Parts)
MAX-64	2	Connector, Field Coil	12X-199	4	Lockwasher, Switch Mtg. Sc. , 1/4
MAY-1008A	1	Coil, Field, L. R.	12X-200	1	Lockwasher, Switch Term. , 5/16
MAY-1009A	1	Coil, Field, L. L.	8X-467	4	Screw, Switch Mtg. , Hex. Hd. 1/4-20x3/8
MCT-1010	1	Coil, Field, U. R.	8X-2988	1	Nut, Switch Term. , Hex. 5/16-18
MDB-1007	1	Coil, Field, U. L.	<u>Clutch Assembly & Parts Used With</u>		
MN-21	2	Pin, Dowel	MCH-76	1	Pin, Link
MU-37	1	Washer, Plain, Term. Stud	MCH-2074C	1	Yoke
MZ-30A	1	Insulation, Field Connection	MCL-58	1	Pin, Yoke
12X-196	2	Lockwasher, Brush Ground Sc. , #10	MCL-59	1	Clamp, Yoke Cover
12X-200	2	Lockwasher, Term. Stud, 5/16	MCL-60	1	Cover, Yoke
8X-321	2	Screw, Brush Ground, Rd. Hd. #10-32x5/16	MCL-3075	1	CLUTCH, STARTER
8X-2988	2	Nut, Term. Stud, Hex. 5/16-18	X-401	1	Pin, Cotter, Link Pin, 1/16x3/8
12X-199	2	Lockwasher, Thru Bolt, 1/4	<u>Miscellaneous Parts</u>		
<u>Comm. End Head Assembly & Parts Used With</u>			MCH-1024	1	Band, Cover
MCL-2030	1	Head Assy. , Comm. End	MCL-53	1	Plate, Intermediate
MAD-110	1	Felt	MCS-46	1	Retainer, Snap Ring
MZ-19	4	Spring, Brush	MCS-47A	1	Ring, Snap
<u>Armature Assembly & Parts Used With</u>			PS-1316	1	Housing Assembly, Pinion
MCH-96	1	Washer, Thrust, Comm. End	MP-41A	1	BEARING, ABS. BRONZE
MDB-2006F	1	ARMATURE	12X-196	2	Lockwasher, Int. Plate Sc. , #10
MN-18	1	Washer, Thrust, D. E.	8X-311	2	Screw, Int. Plate, Rd. Hd. #10-32x3/8
MU-54	*	Washer, Thrust, C. E. , 1/32" Thick	† BRUSH SET, SERVICE MDB-2012S.		
MU-54B	*	Washer, Thrust, C. E. , 3/64" Thick	* Use as required.		

UNIT	APPLICATION
MDB-6001A	Chrysler 8

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MDC-6301 STARTING MOTOR PARTS LIST

MDC-6301
(Issued 10-18-54)

Frame & Field Assembly & Parts Used With			Switch Assembly & Parts (Continued)						
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part				
MDC-2001	1	Frame & Field Assembly	8X-141	1	Nut, Hex. #8-32				
GK-38	4	Screw, Pole Shoe	SSY-4002	1	SOLENOID STARTING SWITCH (See Separate List for Parts)				
MAB-31A	1	Washer, Ins., Term. Stud, Outer	12X-199	4	Lockwasher, Switch Mtg. Screw, 1/4				
MAB-85	1	Bushing, Ins., Term. Stud	12X-200	1	Lockwasher, Switch Terminal, 5/16				
MCJ-39B	1	Washer, Ins., Term. Stud, Inner	8X-467	4	Screw, Switch Mtg., Hex. Hd. 1/4-20x3/8				
MCL-48B	1	Stud, Terminal	8X-2988	1	Nut, Switch Terminal, Hex. 5/16-18				
MDC-13 †	2	Brush, Grounded	<u>Clutch Assembly & Parts Used With</u>						
MDC-1005	1	FIELD COIL ASSEMBLY	MCH-76	1	Pin, Link				
MN-21	2	Pin, Dowel	MCH-2074C	1	Yoke				
MU-37	1	Washer, Plain, Term. Stud	MCL-58	1	Pin, Yoke				
12X-196	2	Lockwasher, Br. Ground Screw, #10	MCL-59	1	Clamp, Yoke Cover				
12X-200	2	Lockwasher, Term. Stud, 5/16	MCL-60	1	Cover, Yoke				
8X-321	2	Screw, Br. Ground, Rd. Hd. #10-32x5/16	MCL-3075	1	STARTER CLUTCH				
8X-2988	2	Nut, Term. Stud, Hex. 5/16-18	X-401	1	Pin, Cotter, Link Pin, 1/16x3/8				
MW-20A	2	Bolt, Thru	<u>Miscellaneous Parts</u>						
12X-199	2	Lockwasher, Thru Bolt, 1/4	MCH-1024	1	Band, Cover				
<u>Comm. End Head Assembly & Parts Used With</u>			MCL-53	1	Plate, Intermediate				
MCL-2030F	1	Head Assy., Comm. End	MCS-46	1	Retainer & Pinion Stop				
MAD-110	1	Felt	MCS-47A	1	Ring, Snap, Retainer & Pinion Stop				
MZ-19	4	Spring, Brush	PS-1316	1	Housing Assy., Pinion				
<u>Armature Assembly & Parts Used With</u>			MP-41A	1	BEARING, ABSORBENT BRONZE				
MCH-96	1	Washer, Thrust, Comm. End	12X-196	2	Lockwasher, Int. Plate Screw, #10				
MDC-2006	1	ARMATURE	8X-311	2	Screw, Int. Plate, Rd. Hd. #10-32x3/8				
MN-18	1	Washer, Thrust, D. E., .065" Thick	† BRUSH SET, SERVICE MDC-2012S.						
MU-54	*	Washer, Thrust, C. E., 1/32" Thick	* Use as required.						
MU-54B	*	Washer, Thrust, C. E., 3/64" Thick	<table border="1" style="margin: 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;">MDC-6301</td> <td style="padding: 5px;">Chrysler (8)</td> </tr> </tbody> </table>			UNIT	APPLICATION	MDC-6301	Chrysler (8)
UNIT	APPLICATION								
MDC-6301	Chrysler (8)								
<u>Switch Assembly & Parts Used With</u>									
MDC-33	1	Connector							
SSX-34	1	Spring, Plunger, 3 25/32"							
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							
SSX-1023	1	Clamp Assembly							
8X-53	1	Screw, Rd. Hd, #8-32x5/8							

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Equipment & Parts List Binder

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MDC-6302 STARTING MOTOR PARTS LIST

MDC-6302
(Issued 11-11-55)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
MDC-2001	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
MCJ-39B	1	Washer, Ins., Term. Stud, Inner
MCL-48B	1	Stud, Terminal
MDC-13 †	2	Brush, Grounded
MDC-1005	1	FIELD COIL ASSY.
MN-21	2	Pin, Dowel
MU-37	1	Washer, Plain, Term. Stud
12X-196	2	Lockwasher, Br. Ground Sc., #10
12X-200	2	Lockwasher, Term. Stud, 5/16
8X-321	2	Screw, Br. Ground, Rd. Hd. #10-32x5/16
8X-2988	2	Nut, Term. Stud, Hex. 5/16-18
MW-20A	2	Bolt, Thru
12X-199	2	Lockwasher, Thru Bolt, 1/4

Comm. End Head Assembly & Parts Used With

MCL-2030F	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
MDC-2006	1	ARMATURE
MN-18	1	Washer, Thrust, D. E., .065" Thick
MU-54	*	Washer, Thrust, C. E., 1/32" Thick
MU-54B	*	Washer, Thrust, C. E., 3/64" Thick

Switch Assembly & Parts Used With

MDC-33	1	Connector
SSX-34	1	Spring, Plunger, 3 25/32"
SSX-36	1	Plug
SSX-1021B	1	Moving Core Assy.
SS-60	1	Washer, Steel, 3/8
SSX-21	1	Core, Moving
SSX-22	1	Link Screw
SSX-35	1	Spring
SSX-1023	1	Clamp Assy.
8X-53	1	Screw, Rd. Hd. #8-32x5/8
8X-141	1	Nut, Hex. #8-32
SSY-4002	1	SOLENOID STARTING SWITCH (See Separate List For Parts)
12X-199	4	Lockwasher, Switch Mtg. Screw, 1/4

Switch Assembly (Continued)

Part No.	No. Used	Name of Part
12X-200	1	Lockwasher, Switch Terminal, 5/16
8X-467	4	Screw, Switch Mtg., Hex. Hd. 1/4-20x3/8
8X-2988	1	Nut, Switch Terminal, Hex. 5/16-18

Clutch Assembly & Parts Used With

MCH-76	1	Pin, Link
MCH-2074C	1	Yoke
MCL-58	1	Pin Yoke
MCL-59	1	Clamp, Yoke Cover
MCL-60	1	Cover, Yoke
MCL-3075	1	STARTER CLUTCH
X-401	1	Pin, Cotter, Link Pin, 1/16x3/8

Miscellaneous Parts

MCH-1024	1	Band, Cover
MCL-53	1	Plate, Intermediate
MCS-46	1	Retainer & Pinion Stop
MCS-47A	1	Ring, Snap, Retainer & Pinion Stop
PS-1319	1	Housing Assy., Pinion
MP-41A	1	BEARING, ABS. BRONZE
12X-196	2	Lockwasher, Int. Plate Screw, #10
8X-311	2	Screw, Int. Plate, Rd. Hd. #10-32x3/8

† BRUSH SET, SERVICE MDC-2012S.

* Use as required.

UNIT	APPLICATION
MDC-6302	Dodge Truck

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File in
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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MDC-6303T STARTING MOTOR PARTS LIST

MDC-6303T
(Issued 11-11-55)

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
** MDC-2039S	1	Frame & Field Assy.	MCH-76A	1	Pin, Link
MDC-2012CS	1	BRUSH SET	MCH-77A	1	Pin, Yoke
X-20	2	Screw, Br. Ground, Rd. Hd. #10-32x5/16	MCH-2074D	1	Yoke
12X-196	2	Lockwasher, Br. Ground Sc., #10	MCS-3075	1	STARTER CLUTCH
MW-20D	2	Bolt, Thru	X-401A	1	Pin, Cotter, Link Pin, 1/16x3/8
12X-199	2	Lockwasher, Thru Bolt, 1/4	X-406A	1	Pin, Cotter, Yoke Pin, 3/32x1/2
12X-200	1	Lockwasher, Term. Stud, 5/16			
X-3130	1	Nut, Term. Stud, Hex. 5/16-18			
Comm. End Head Assembly & Parts Used With			Miscellaneous Parts		
MCL-2030H	1	Head Assy., Comm. End	MCH-1024B	1	Band, Cover
MAD-110	1	Felt	MCS-46A	1	Retainer & Pinion Stop
MZ-19C	4	Spring, Brush	MCS-47A	1	Ring, Snap, Retainer & Pinion Stop
Armature Assembly & Parts Used With			PS-1325	1	Housing Assy., Pinion
MCH-96	1	Washer, Thrust, Comm. End	MP-41A	1	BEARING, ABS. BRONZE
MDC-2041	1	ARMATURE			
MN-18A	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					
MDC-40	1	Connector			
SSY-4102T	1	SOLENOID STARTING SWITCH (See separate list for parts)			
12X-199	4	Lockwasher, Switch Mtg. Screw, 1/4			
12X-200	1	Lockwasher, Switch Terminal, 5/16			
X-467A	4	Screw, Switch Mtg., Hex. Hd. 1/4-20x3/8			
X-3130	1	Nut, Switch Terminal, Hex. 5/16-18			

* Use as required.

** Note:-Due to the method of installing field coils and other components in the frame and field of fungus resistant assemblies, it is necessary to replace the frame and field assembly if field coils are required.

UNIT	APPLICATION
MDC-6303T	Chrysler (Industrial)

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File in
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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MDD-6301 STARTING MOTOR PARTS LIST

MDD-6301
(Issued 11-22-54)

Frame & Field Assembly & Parts Used With			Switch Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MDD-2001	1	Frame & Field Assembly	MAX-89R	1	Connector
GK-38	4	Screw, Pole Shoe	SSW-4101	1	SOLENOID STARTING SWITCH
MAB-31A	1	Washer, Ins., Term. Stud, Outer	8X-164	2	Nut, Hex. 5/16-18
MAB-85	1	Bushing, Ins., Term. Stud	8X-173	2	Nut, Hex. #10-32
MAX-67	1	Insulation, Field Connection	12X-196	2	Lockwasher, #10
MCH-34B	1	Stud, Terminal	12X-200	2	Lockwasher, 5/16
MCJ-39B	1	Washer, Ins., Term. Stud	8X-321	2	Screw, Switch Mtg., Rd. Hd. #10-32x5/16
MCL-15	1	Insulation, Field Connection, D.E.	X-1270	2	Washer, Mtg. Screw, Skpf. #10
MDC-13 †	1	Brush, Grounded	<u>Miscellaneous Parts</u>		
MDD-1005S	1	FIELD COIL PACKAGE	EBB-39	1	BENDIX DRIVE
MN-21	2	Pin, Dowel	MCH-1024	1	Band, Cover
MU-37	1	Washer, Plain, Term. Stud, 5/16	MCH-1051	1	BEARING ASSEMBLY, INTERMEDIATE
12X-196	1	Lockwasher, Ground Screw, #10	PS-1326	1	Housing Assy., Pinion
8X-321	1	Screw, Br. Ground, Rd. Hd. #10-32x5/16	MDD-34	1	BEARING, ABSORBENT BRONZE
12X-1014	2	Lockwasher, Term. Stud, 5/16	12X-196	2	Lockwasher, Int. Brg. Screw, #10
8X-2988	2	Nut, Term. Stud, Hex. 5/16-18	8X-1368	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16
MW-20A	2	Bolt, Thru	* Use as required.		
12X-199	2	Lockwasher, Thru Bolt, 1/4	† BRUSH SET, SERVICE MDC-2012AS.		
<u>Comm. End Head Assembly & Parts Used With</u>					
MDD-2002	1	Head Assy., Comm. End			
MAD-110	1	Felt			
MZ-19	2	Spring, Brush			
<u>Armature Assembly & Parts Used With</u>					
MDC-2037	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			

UNIT	APPLICATION
MDD-6301	Packard

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File in
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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MDD-6401 STARTING MOTOR PARTS LIST

MDD-6401
(Issued 10-3-55)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
MDD-2036	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
MCJ-39B	1	Washer, Ins., Term. Stud, Inner
MCL-48B	1	Stud, Terminal
MDD-13 †	2	Brush, Grounded
MDD-1005AS	1	FIELD COIL PACKAGE
MN-21	2	Pin, Dowel
MU-37	1	Washer, Plain, Term. Stud
12X-196	2	Lockwasher, Br. Ground Sc., #10
12X-200	2	Lockwasher, Term. Stud, 5/16
8X-321	2	Screw, Br. Ground, Rd. Hd. #10-32x5/16
8X-2988	2	Nut, Term. Stud, Hex. 5/16-18
MW-20A	2	Bolt, Thru
12X-199	2	Lockwasher, Thru Bolt, 1/4

Comm. End Head Assembly & Parts Used With

MCL-2030F	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
MDC-2006	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

Switch Assembly & Parts Used With

MDC-33	1	Connector
SSX-34	1	Spring, Plunger, 3 25/32"
SSX-36	1	Plug
SSX-1021B	1	Moving Core Assy.
SS-60	1	Washer, Steel, 3/8
SSX-21	1	Core, Moving
SSX-22	1	Link Screw
SSX-35	1	Spring

Switch Assembly (Continued)

Part No.	No. Used	Name of Part
SSX-1023	1	Clamp Assy.
8X-53	1	Screw, Rd. Hd. #8-32x5/8
8X-141	1	Nut, Hex. #8-32
SSY-4002	1	SOLENOID STARTING SWITCH (See separate list for parts)
12X-199	4	Lockwasher, Switch Mtg. Screw, 1/4
12X-200	1	Lockwasher, Switch Terminal, 5/16
8X-467	4	Screw, Switch Mtg., Hex. Hd. 1/4-20x3/8
8X-2988	1	Nut, Switch Terminal, Hex. 5/16-18

Clutch Assembly & Parts Used With

MCH-76	1	Pin, Link
MCH-2074C	1	Yoke
MCL-58	1	Pin, Yoke
MCL-59	1	Clamp, Yoke Cover
MCL-60	1	Cover, Yoke
MCL-3075	1	STARTER CLUTCH
X-401	1	Pin, Cotter, Link Pin, 1/16x3/8

Miscellaneous Parts

MCH-1024	1	Band, Cover
MCL-53	1	Plate, Intermediate
MCS-46	1	Retainer & Pinion Stop
MCS-47A	1	Ring, Snap, Retainer & Pinion Stop
PS-1316	1	Housing Assy., Pinion
MP-41A	1	BEARING, ABS. BRONZE
12X-196	2	Lockwasher, Int. Plate Screw, #10
8X-311	2	Screw, Int. Plate, Rd. Hd. #10-32x3/8

† BRUSH SET, SERVICE MDD-2012S.

* Use as required.

UNIT	APPLICATION
MDD-6401	Crown Imperial

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MDE-4001 MOTOR PARTS LIST

MDE-4001
(Issued 8-8-55)

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
GJ-20	2	Bolt, Thru	MAD-47	1	Washer, Thrust, D. E.
MDE-2001	1	Frame & Field Assembly	MDE-2112	1	ARMATURE
GK-38	4	Screw, Pole Shoe	MU-54	2	Washer, Thrust, C. E., 1/32" Thick
MAB-30	1	Insulation, Field Connection	<u>Miscellaneous Parts</u>		
MAB-31	2	Washer, Ins. Term. Stud, Outer	MAB-1024F	1	Band, Cover
MAB-85	2	Bushing, Ins. , Term. Stud	MAY-2148B	1	Head Assy. , Drive End
MCU-15	1	Insulation, Field Conn. , D. E.	MAY-149	4	Stud
MCU-28	1	Equalizer	MAY-1148B	1	Head Assy. , Partial, D. E.
MCU-2012S	1	Brush Set	ML-18A	1	BEARING, ABSORBENT BRONZE
MDE-34	2	Stud, Terminal	X-489	1	Oiler
MDE-1007	1	COIL, FIELD, U. L.	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
MDE-1008	1	COIL, FIELD, L. R.	8X-794	1	Nut, Cover Band, Square #10-32
MDE-1009	1	COIL, FIELD, L. L.			
MDE-1010	1	COIL, FIELD, U. R.			
MDE-1017	2	Connector, Field Coil			
MN-21	2	Pin, Dowel			
MU-37	2	Washer, Plain, Term. Stud, 5/16			
SS-13A	2	Washer, Ins. , Term. Stud, Inner			
12X-196	2	Lockwasher, Grd. Sc. , #10			
8X-321	2	Screw, Brush Ground, Rd. Hd. #10-32x5/16			
12X-1014	4	Lockwasher, Term. Stud, 5/16			
8X-1376	4	Nut, Term. Stud, Hex. 5/16-24			
12X-199	2	Lockwasher, Thru Bolt, 1/4			
<u>Comm. End Head Assembly & Parts Used With</u>					
MCL-3002	1	Head Assy. , Comm. End			
MAD-110	1	Felt			
MZ-19	4	Spring, Brush			

UNIT	APPLICATION
MDE-4001	John Bean

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MDF- 6001 STARTING MOTOR PARTS LIST

MDF- 6001
(Issued 6-1-56)

Frame & Field Assembly & Parts Used With			Switch Assembly (Continued)		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ- 20	2	Bolt, Thru	SSX- 36	1	Plug
MDF- 2001	1	Frame & Field Assy.	12X- 199	4	Lockwasher, Switch Mtg. Sc. , 1/4
GK- 38	4	Screw, Pole Shoe	12X- 200	1	Lockwasher, Switch Terminal, 5/16
MDF- 16	4	Holder, Brush	8X- 467	4	Screw, Switch Mtg. , Hex. Hd. 1/4- 20x3/8
MDF- 23	1	Grommet, Connector	8X- 2988	1	Nut, Switch Terminal, Hex. 5/16- 18
MDF- 25	4	Bushing, Ins. , Br. Holder Rivet			
MDF- 26	1	Connector, Switch			
MDF- 30	1	Insulation, Br. Holder, Upper			
MDF- 31	1	Insulation, Br. Holder, Lower			
MDF- 1005S	1	FIELD COIL PACKAGE			
MDF- 2012S	1	BRUSH SET			
MN- 21	2	Pin, Dowel			
MZ- 19	4	Spring, Brush			
8X- 59	1	Screw, Lead Conn. , Rd. Hd. 8- 32x3/16			
12X- 195	6	Lockwasher, Lead & Brush & Connector Sc. , 8			
8X- 304	5	Screw, Brush & Connector, Rd. Hd. 8- 32x5/16			
8X- 3277	4	Rivet, Grounded Br. Holder			
8X- 3284	4	Rivet, Insulated Br. Holder			
12X- 199	2	Lockwasher, Thru Bolt, 1/4			
Comm. End Head Assembly & Parts Used With			Clutch Assembly & Parts Used With		
MDF- 1002	1	Head Assy. , Comm. End	MCH- 1074D	1	Yoke
MAD- 110	1	Felt	MCL- 58	1	Pin, Yoke
Armature Assembly & Parts Used With			MCL- 59	1	Clamp, Yoke Cover
MCH- 96	1	Washer, Thrust, Comm. End	MCL- 3075	1	CLUTCH, STARTER
MDF- 2006	1	ARMATURE	MDF- 27	1	Pin, Link
MN- 18	1	Washer, Thrust, D. E.	MDF- 28	1	Cover, Yoke
MU- 54	*	Washer, Thrust, C. E. , 1/32" Thick	X- 401	1	Pin, Cotter, Link Pin, 1/16x3/8
MU- 54B	*	Washer, Thrust, C. E. , 3/64" Thick			
Switch Assembly & Parts Used With			Miscellaneous Parts		
SAD- 27	1	Spring, Plunger, 3 17/32"	MCL- 53	1	Plate, Intermediate
SAD- 1021	1	Moving Core Assy.	MCS- 46	1	Retainer & Pinion Stop
SAD- 21	1	Core, Moving	MCS- 47A	1	Ring, Snap, Retainer & Pinion Stop
SAD- 33	1	Rubber Cap	PS- 1316B	1	Housing Assy. , Pinion
SAD- 1022	1	Screw & Link Assy.	MP- 41A	1	BEARING, ABS. BRONZE
SS- 60	1	Washer, Steel, 3/8	12X- 196	2	Lockwasher, Int. Plate Sc. , 10
SSX- 35	1	Spring, Rubber Cap	8X- 311	2	Screw, Int. Plate, Rd. Hd. 10- 32x3/8
SAD- 4001	1	SOLENOID STARTING SWITCH (See separate list for parts)			

* Use as required

UNIT	APPLICATION
MDF- 6001	Chrysler, DeSoto, Imperial

"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

MDF-6002 STARTING MOTOR PARTS LIST

MDF-6002
(Issued 6-1-56)

<u>Frame & Field Assembly & Parts Used With</u>			<u>Comm. End Head Assembly & Parts Used With</u>		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru	MDF-1002	1	Head Assy., Comm. End
MDF-2033	1	Frame & Field Assy.	MAD-110	1	Felt
GK-38	4	Screw, Pole Shoe	<u>Armature Assembly & Parts Used With</u>		
MAB-31A	1	Washer, Ins., Term. Stud, Outer	MDF-2088	1	ARMATURE
MAB-85	1	Bushing, Ins., Term. Stud	MU-54	1	Washer, Thrust, Int., 1/32" Thick
MCJ-39B	1	Washer, Ins., Term. Stud, Inner	MU-54	*	Washer, Thrust, C. E., 1/32" Thick
MCT-34B	1	Stud, Terminal	MU-54B	*	Washer, Thrust, C. E., 3/64" Thick
MDF-16	4	Holder, Brush	MU-54K	*	Washer, Thrust, C. E., .080" Thick
MDF-25	4	Bushing, Ins., Br. Holder Rivet	MU-54L	*	Washer, Thrust, C. E., 1/16" Thick
MDF-31	1	Insulation, Br. Holder, Lower	X-261	1	Key, Woodruff, D. E., 6
MDF-1005AS	1	FIELD COIL PACKAGE	<u>Miscellaneous Parts</u>		
MDF-2012S	1	BRUSH SET	EBB-20	1	BENDIX DRIVE
MDG-30	1	Insulation, Br. Holder, Upper	MCH-1051	1	Bearing Assy., Intermediate
MN-21	2	Pin, Dowel	PS-1291G	1	Housing Assy., Pinion
MU-37	1	Washer, Plain, Term. Stud, 5/16	MG-77A	1	BEARING, ABS. BRONZE
MZ-19	4	Spring, Brush	12X-196	2	Lockwasher, Int. Bearing Sc., 10
8X-59	1	Screw, Lead Conn., Rd. Hd. 8-32x3/16	8X-1368	2	Screw, Int. Bearing, Rd. Hd. 10-32x7/16
12X-195	5	Lockwasher, Lead Conn. & Brush Sc., 8	* Use as required.		
8X-304	4	Screw, Brush, Rd. Hd. 8-32x5/16			
12X-1014	1	Lockwasher, Term. Stud, 5/16			
8X-2988	1	Nut, Term. Stud, Hex. 5/16-18			
8X-3277	4	Rivet, Grounded Br. Holder			
8X-3284	4	Rivet, Insulated Br. Holder			
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			

UNIT	APPLICATION
MDF-6002	Dodge & Plymouth

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



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MDF- 6006 STARTING MOTOR PARTS LIST

MDF- 6006
(Issued 6- 1- 56)

<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- 20	2	Bolt, Thru	SS- 60	1	Washer, Steel, 3/8
MDF- 2001	1	Frame & Field Assy.	SSX- 35	1	Spring, Rubber Cap
GK- 38	4	Screw, Pole Shoe	SAD- 4001	1	SOLENOID STARTING SWITCH (See separate list for parts)
MDF- 16	4	Holder, Brush	SSX- 36	1	Plug
MDF- 23	1	Grommet, Connector	12X- 199	4	Lockwasher, Switch Mtg. Sc., 1/4
MDF- 25	4	Bushing, Ins., Br. Holder Rivet	12X- 200	2	Lockwasher, Switch Terminal, 5/16
MDF- 26	1	Connector, Switch	8X- 467	4	Screw, Switch Mtg., Hex. Hd. 1/4- 20x3/8
MDF- 30	1	Insulation, Br. Holder, Upper	8X- 2988	2	Nut, Switch Terminal, Hex. 5/16- 18
MDF- 31	1	Insulation, Br. Holder, Lower	<u>Clutch Assembly & Parts Used With</u>		
MDF- 1005S	1	FIELD COIL PACKAGE	MCH- 1074D	1	Yoke
MDF- 2012S	1	BRUSH SET	MCL- 58	1	Pin, Yoke
MN- 21	2	Pin, Dowel	MCL- 59	1	Clamp, Yoke Cover
MZ- 19	4	Spring, Brush	MCL- 3075	1	Clutch, Starter
8X- 59	1	Screw, Lead Conn., Rd. Hd. 8- 32x3/16	MDF- 27	1	Pin, Link
12X- 195	6	Lockwasher, Lead&Brush& Connector Sc., 8	MDF- 28	1	Cover, Yoke
8X- 304	5	Screw, Brush&Connector, Rd. Hd. 8- 32x5/16	X- 401	1	Pin, Cotter, Link Pin, 1/16x3/8
8X- 3277	4	Rivet, Grounded Br. Holder	<u>Miscellaneous Parts</u>		
8X- 3284	4	Rivet, Insulated Br. Holder	MCL- 53	1	Plate, Intermediate
12X- 199	2	Lockwasher, Thru Bolt, 1/4	MCS- 46	1	Retainer & Pinion Stop
<u>Comm. End Head Assembly & Parts Used With</u>			MCS- 47A	1	Ring, Snap, Retainer & Pinion Stop
MDF- 1002	1	Head Assy., Comm. End	PS- 1332	1	Housing Assy., Pinion
MAD- 110	1	Felt	MP- 41A	1	BEARING, ABS. BRONZE
<u>Armature Assembly & Parts Used With</u>			12X- 196	2	Lockwasher, Int. Plate Sc., 10
MCH- 96	1	Washer, Thrust, Comm. End	8X- 311	2	Screw, Int. Plate, Rd. Hd. 10- 32x3/8
MDF- 2006	1	ARMATURE	* Use as required.		
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>					
SAD- 27	1	Spring, Plunger, 3 17/32"			
SAD- 1021	1	Moving Core Assy.			
SAD- 21	1	Core, Moving			
SAD- 33	1	Rubber Cap			
SAD- 1022	1	Screw & Link Assy.			

UNIT	APPLICATION
MDF- 6006	Dodge Truck

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MDF-6007 STARTING MOTOR PARTS LIST

MDF-6007
(Issued 6-1-56)

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	MDF-1002	1	Head Assy., Comm. End
MDF-2033	1	Frame & Field Assy.	MAD-110	1	Felt
GK-38	4	Screw, Pole Shoe	Armature Assembly & Parts Used With		
MAB-31A	1	Washer, Ins., Term. Stud, Outer	MDF-2088	1	ARMATURE
MAB-85	1	Bushing, Ins., Term. Stud	MU-54	1	Washer, Thrust, Int., 1/32" Thick
MCJ-39B	1	Washer, Ins., Term. Stud, Inner	MU-54	*	Washer, Thrust, C. E., 1/32" Thick
MCT-34B	1	Stud, Terminal	MU-54B	*	Washer, Thrust, C. E., 3/64" Thick
MDF-16	4	Holder, Brush	MU-54K	*	Washer, Thrust, C. E., .080" Thick
MDF-25	4	Bushing, Ins., Br. Holder Rivet	MU-54L	*	Washer, Thrust, C. E., 1/16" Thick
MDF-31	1	Insulation, Br. Holder, Lower	X-261	1	Key, Woodruff, D. E., 6
MDF-1005AS	1	FIELD COIL PACKAGE	Miscellaneous Parts		
MDF-2012S	1	BRUSH SET	EBB-20	1	BENDIX DRIVE
MDG-30	1	Insulation, Br. Holder, Upper	MCH-1051	1	Bearing Assy., Intermediate
MN-21	2	Pin, Dowel	PS-1291H	1	Housing Assy., Pinion
MU-37	1	Washer, Plain, Term. Stud, 5/16	MG-77A	1	BEARING, ABS. BRONZE
MZ-19	4	Spring, Brush	12X-196	2	Lockwasher, Int. Bearing, Sc., 10
8X-59	1	Screw, Lead Conn., Rd. Hd. 8-32x3/16	8X-1368	2	Screw, Int. Bearing, Rd. Hd. 10-32x7/16
12X-195	5	Lockwasher, Lead Conn. & Brush Sc., 8	* Use as required.		
8X-304	4	Screw, Brush, Rd. Hd. 8-32x5/16			
12X-1014	1	Lockwasher, Term. Stud, 5/16			
8X-2988	1	Nut, Term. Stud, Hex. 5/16-18			
8X-3277	4	Rivet, Grounded Br. Holder			
8X-3284	4	Rivet, Insulated Br. Holder			
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			

UNIT	APPLICATION
MDF-6007	Dodge

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MDF - 6009 STARTING MOTOR PARTS LIST

MDF - 6009
(Issued 6-1-56)

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	MDF-1002	1	Head Assy., Comm. End
MDF-2033	1	Frame & Field Assy.	MAD-110	1	Felt
GK-38	4	Screw, Pole Shoe	<u>Armature Assembly & Parts Used With</u>		
MAB-31A	1	Washer, Ins., Term. Stud, Outer	MDF-2088	1	ARMATURE
MAB-85	1	Bushing, Ins., Term. Stud	MU-54	1	Washer, Thrust, Int., 1/32" Thick
MCJ-39B	1	Washer, Ins., Term. Stud, Inner	MU-54	*	Washer, Thrust, C. E., 1/32" Thick
MCT-34B	1	Stud, Terminal	MU-54B	*	Washer, Thrust, C. E., 3/64" Thick
MDF-16	4	Holder, Brush	MU-54K	*	Washer, Thrust, C. E., .080" Thick
MDF-25	4	Bushing, Ins., Br. Holder Rivet	MU-54L	*	Washer, Thrust, C. E., 1/16" Thick
MDF-31	1	Insulation, Br. Holder, Lower	X-261	1	Key, Woodruff, D. E., 6
MDF-1005AS	1	FIELD COIL PACKAGE	<u>Miscellaneous Parts</u>		
MDF-2012S	1	BRUSH SET	EBB-19	1	BENDIX DRIVE
MDG-30	1	Insulation, Br. Holder, Upper	MCH-1051	1	Bearing Assy., Intermediate
MN-21	2	Pin, Dowel	PS-1333A	1	Housing Assy., Pinion
MU-37	1	Washer, Plain, Term. Stud, 5/16	MG-77A	1	BEARING, ABS. BRONZE
MZ-19	4	Spring, Brush	12X-196	2	Lockwasher, Int. Bearing Sc., 10
8X-59	1	Screw, Lead Conn., Rd. Hd. 8-32x3/16	8X-1368	2	Screw, Int. Bearing, Rd. Hd. 10-32x7/16
12X-195	5	Lockwasher, Lead Conn. & Brush Sc., 8	* Use as required.		
8X-304	4	Screw, Brush, Rd. Hd. 8-32x5/16			
12X-1014	1	Lockwasher, Term. Stud, 5/16			
8X-2988	1	Nut, Term. Stud, Hex. 5/16-18			
8X-3277	4	Rivet, Grounded Br. Holder			
8X-3284	4	Rivet, Insulated Br. Holder			
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			

UNIT	APPLICATION
MDF-6009	Nash

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MDF-6010 STARTING MOTOR PARTS LIST

MDF-6010
(Issued 6-1-56)

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	MDF-1002	1	Head Assy., Comm. End
MDF-2033	1	Frame & Field Assy.	MAD-110	1	Felt
GK-38	4	Screw, Pole Shoe	<u>Armature Assembly & Parts Used With</u>		
MAB-31A	1	Washer, Ins., Term. Stud, Outer	MDF-2037	1	ARMATURE
MAB-85	1	Bushing, Ins., Term. Stud	MU-54	1	Washer, Thrust, D. E., 1/32" Thick
MCJ-39B	1	Washer, Ins., Term. Stud, Inner	MU-54	*	Washer, Thrust, C. E., 1/32" Thick
MCT-34B	1	Stud, Terminal	MU-54B	*	Washer, Thrust, C. E., 3/64" Thick
MDF-16	4	Holder, Brush	MU-54K	*	Washer, Thrust, C. E., .080" Thick
MDF-25	4	Bushing, Ins., Br. Holder Rivet	MU-54L	*	Washer, Thrust, C. E., 1/16" Thick
MDF-31	1	Insulation, Br. Holder, Lower	<u>Miscellaneous Parts</u>		
MDF-1005AS	1	FIELD COIL PACKAGE	EBA-35	1	BENDIX DRIVE ASSY.
MDF-2012S	1	BRUSH SET	EBA-513	1	Spring, Anti-Drift
MDG-30	1	Insulation, Br. Holder, Upper	EBA-525	1	Spring, Meshing
MN-21	2	Pin, Dowel	EBA-1233	1	Ring, Retaining
MU-37	1	Washer, Plain, Term. Stud, 5/16	EBA-2008	1	Ring, Lock
MZ-19	4	Spring, Brush	EBA-3307	2	Plate, Spring Anchor
8X-59	1	Screw, Lead Conn., Rd. Hd. 8-32x3/16	EBA-3505	1	SPRING, DRIVE
12X-195	5	Lockwasher, Lead Conn. & Brush Sc., 8	EBA-3531	1	Shaft
8X-304	4	Screw, Brush, Rd. Hd. 8-32x5/16	EBA-3532	1	Pinion
12X-1014	1	Lockwasher, Term. Stud, 5/16	MCL-1036B	1	Head Assy., Drive End
8X-2988	1	Nut, Term. Stud, Hex. 5/16-18	MAB-49A	1	BEARING, ABS. BRONZE
8X-3277	4	Rivet, Grounded Br. Holder	MZ-124	1	Pin, Bendix
8X-3284	4	Rivet, Insulated Br. Holder	* Use as required.		
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			

UNIT	APPLICATION
MDF-6010	Nash

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MDF-6011 STARTING MOTOR PARTS LIST

MDF-6011
(Issued 6-1-56)

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
MAW-20A	2	Bolt, Thru	MDF-1002	1	Head Assy., Comm. End
MDF-2038	1	Frame & Field Assy.	MAD-110	1	Felt
GK-38	4	Screw, Pole Shoe	<u>Armature Assembly & Parts Used With</u>		
MAB-31A	1	Washer, Ins., Term. Stud, Outer	MDF-2026	1	ARMATURE
MAB-85	1	Bushing, Ins., Term. Stud	MU-54	1	Washer, Thrust, D. E., 1/32" Thick
MCJ-39B	1	Washer, Ins., Term. Stud, Inner	MU-54	*	Washer, Thrust, C. E., 1/32" Thick
MCT-34B	1	Stud, Terminal	MU-54B	*	Washer, Thrust, C. E., 3/64" Thick
MDF-16	4	Holder, Brush	<u>Miscellaneous Parts</u>		
MDF-25	4	Bushing, Ins., Br. Holder Rivet	EBB-7	1	BENDIX DRIVE ASSY.
MDF-31	1	Insulation, Br. Holder, Lower	EBA-513	1	Spring, Anti-Drift
MDF-1005AS	1	FIELD COIL PACKAGE	EBA-525	1	Spring, Meshing
MDF-2012S	1	BRUSH SET	EBA-1233	1	Ring, Retaining
MDG-30	1	Insulation, Br. Holder, Upper	EBA-2008	1	Ring, Lock
MN-21	1	Pin, Dowel	EBA-3307	2	Plate, Spring Anchor
MU-37	1	Washer, Plain, Term. Stud	EBA-3505	1	SPRING, DRIVE
MZ-19	4	Spring, Brush	EBA-3531	1	Shaft
8X-59	1	Screw, Lead Conn., Rd. Hd. 8-32x3/16	EBB-732	1	Pinion
12X-195	5	Lockwasher, Lead Conn. & Brush Sc., 8	MCL-1003B	1	Head Assy., Drive End
8X-304	4	Screw, Brush, Rd. Hd. 8-32x5/16	MG-77A	1	BEARING, ABS. BRONZE
12X-1014	1	Lockwasher, Term. Stud, 5/16	MZ-124	1	Pin, Bendix
8X-2988	1	Nut, Term. Stud, Hex. 5/16-18	8X-66	2	Screw, D. E. Head, Flat Hd. 10-32x1/2
8X-3277	4	Rivet, Grounded Br. Holder	* Use as required.		
8X-3284	4	Rivet, Insulated Br. Holder			
8X-146	2	Nut, Thru Bolt, Hex. 1/4-20			
12X-199	2	Lockwasher, Thru Bolt, 1/4			

UNIT	APPLICATION
MDF-6011	Hudson

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MDF- 6012 STARTING MOTOR PARTS LIST

MDF- 6012
(Issued 6-1-56)

Frame & Field Assembly & Parts Used With			Armature Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ- 20	2	Bolt, Thru	MDF- 2088	1	ARMATURE
MDF- 2033	1	Frame & Field Assy.	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
MCJ- 39B	1	Washer, Ins. , Term. Stud, Inner	MU- 54L	*	Washer, Thrust, C. E. , 1/16" Thick
MCT- 34B	1	Stud, Terminal	X- 261	1	Key, Woodruff, D. E. , 6
MDF- 16	4	Holder, Brush	<u>Miscellaneous Parts</u>		
MDF- 25	4	Bushing, Ins. , Br. Holder Rivet	EBA- 33	1	BENDIX DRIVE ASSY.
MDF- 31	1	Insulation, Br. Holder, Lower	EBA- 1213	1	Spring, Anti- Drift
MDF- 1005AS	1	FIELD COIL PACKAGE	EBA- 1225	1	Spring, Meshing
MDF- 2012S	1	BRUSH SET	EBA- 1232	1	Pinion
MDG- 30	1	Insulation, Br. Holder, Upper	EBA- 1233	1	Ring, Retaining
MN- 21	2	Pin, Dowel	EBA- 2006	1	Pin, Locating
MU- 37	1	Washer, Plain, Term. Stud, 5/16	EBA- 2008	1	Ring, Lock
MZ- 19	4	Spring, Brush	EBA- 2031	1	Shaft
8X- 59	1	Screw, Lead Conn. , Rd. Hd. 8- 32x3/16	EBA- 2105	1	SPRING, DRIVE
12X- 195	5	Lockwasher, Lead Conn. & Brush Sc. , 8	EBA- 3307	2	Plate, Spring Anchor
8X- 304	4	Screw, Brush, Rd. Hd. 8- 32x5/16	MCH- 1051	1	Bearing Assy. , Intermediate Housing Assy. , Pinion
12X- 1014	1	Lockwasher, Term. Stud, 5/16	PS- 1326B	1	BEARING, ABS. BRONZE
8X- 2988	1	Nut, Term. Stud, Hex. 5/16- 18	MG- 77A	1	Lockwasher, Int. Bearing Sc. 10
8X- 3277	4	Rivet, Grounded Br. Holder	12X- 196	2	Screw, Int. Bearing, Rd. Hd. 10- 32x7/16
8X- 3284	4	Rivet, Insulated Br. Holder	8X- 1368	2	
8X- 164	1	Nut, Term. Stud, Hex. 5/16- 18	* Use as required.		
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>					
MDF- 1002	1	Head Assy. , Comm. End			
MAD- 110	1	Felt			

UNIT	APPLICATION
MDF- 6012	Hudson

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File in
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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MDF- 6013 STARTING MOTOR PARTS LIST

MDF - 6013
(Issued 6-1-56)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GJ- 20	2	Bolt, Thru
MDF- 2001	1	Frame & Field Assy.
GK- 38	4	Screw, Pole Shoe
MDF- 16	4	Holder, Brush
MDF- 23	1	Grommet, Connector
MDF- 25	4	Bushing, Ins. , Br. Holder Rivet
MDF- 26	1	Connector, Switch
MDF- 30	1	Insulation, Br. Holder, Upper
MDF- 31	1	Insulation, Br. Holder, Lower
MDF- 1005S	1	FIELD COIL PACKAGE
MDF- 2012S	1	BRUSH SET
MN- 21	2	Pin, Dowel
MZ- 19	4	Spring, Brush
8X- 59	1	Screw, Lead Conn. , Rd. Hd. 8- 32x3/16
12X- 195	6	Lockwasher, Lead&Brush& Connector Sc. , 8
8X- 304	5	Screw, Brush&Connector, Rd. Hd. 8- 32x5/16
8X- 3277	4	Rivet, Grounded Br. Holder
8X- 3284	4	Rivet, Insulated Br. Holder
12X- 199	2	Lockwasher, Thru Bolt, 1/4

Comm. End Head Assembly & Parts Used With

MDF- 1002	1	Head Assy. , Comm. End
MAD- 110	1	Felt

Armature Assembly & Parts Used With

MCH- 96	1	Washer, Thrust, Comm. End
MDF- 2006	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

Switch Assembly & Parts Used With

MDF- 24	1	Connector
SAD- 27	1	Spring, Plunger, 3 17/32"
SAD- 1021	1	Moving Core Assy.
SAD- 21	1	Core, Moving
SAD- 33	1	Rubber Cap
SAD- 1022	1	Screw & Link Assy.

Switch Assembly (Continued)

Part No.	No. Used	Name of Part
SS- 60	1	Washer, Steel, 3/8
SSX- 35	1	Spring, Rubber Cap
SAD- 4001A	1	SOLENOID STARTING SWITCH (See separate list for parts)
SSX- 36	1	Plug
12X- 199	4	Lockwasher, Switch Mtg. Sc. , 1/4
12X- 200	2	Lockwasher, Switch Terminal, 5/16
8X- 467	4	Screw, Switch Mtg. , Hex. Hd. 1/4- 20x3/8
8X- 2988	2	Nut, Switch Terminal, Hex. 5/16- 18

Clutch Assembly & Parts Used With

MCL- 58	1	Pin, Yoke
MCL- 59	1	Clamp, Yoke Cover
MCL- 3161	1	CLUTCH, STARTER
MCH- 1074D	1	Yoke
MDF- 27	1	Pin, Link
MDF- 28	1	Cover, Yoke
X- 401	1	Pin, Cotter, Link Pin, 1/16x3/8

Miscellaneous Parts

MCL- 53	1	Plate, Intermediate
MCS- 46	1	Retainer & Pinion Stop
MCS- 47A	1	Ring, Snap, Retainer & Pinion Stop
PS- 1324B	1	Housing Assy. , Pinion
MP- 41A	1	BEARING, ABS. BRONZE
12X- 196	2	Lockwasher, Int. Plate Sc. , 10
8X- 311	2	Screw, Int. Plate, Rd. Hd. 10- 32x3/8

* Use as required.

UNIT	APPLICATION
MDF- 6013	Ford Truck

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MDF-6014 STARTING MOTOR PARTS LIST

MDF-6014
(Issued 6-1-56)

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	MDF-1002	1	Head Assy., Comm. End
MDF-2042	1	Frame & Field Assy.	MAD-110	1	Felt
GK-38	4	Screw, Pole Shoe	Armature Assembly & Parts Used With		
MAB-31A	1	Washer, Ins., Term. Stud, Outer	MDF-2088	1	ARMATURE
MAB-85	1	Bushing, Ins., Term. Stud	MU-54	1	Washer, Thrust, Int., 1/32" Thick
MCJ-39B	1	Washer, Ins., Term. Stud, Inner	MU-54	*	Washer, Thrust, C. E., 1/32" Thick
MCT-34B	1	Stud, Terminal	MU-54B	*	Washer, Thrust, C. E., 3/64" Thick
MDF-16	4	Holder, Brush	MU-54K	*	Washer, Thrust, C. E., .080" Thick
MDF-25	4	Bushing, Ins., Br. Holder Rivet	MU-54L	*	Washer, Thrust, C. E., 1/16" Thick
MDF-31	1	Insulation, Br. Holder, Lower	X-261	1	Key, Woodruff, D. E., 6
MDF-1005AS	1	FIELD COIL PACKAGE	Miscellaneous Parts		
MDF-2012S	1	BRUSH SET	EBB-50	1	BENDIX DRIVE
MDG-30	1	Insulation, Br. Holder, Upper	MCH-1051	1	Bearing Assy., Intermediate
MN-21	2	Pin, Dowel	PS-1336	1	Housing Assy., Pinion
MU-37	1	Washer, Plain, Term. Stud, 5/16	MG-77A	1	BEARING, ABS. BRONZE
MZ-19	4	Spring, Brush	12X-196	2	Lockwasher, Int. Bearing Sc., 10
8X-59	1	Screw, Lead Conn., Rd. Hd. 8-32x3/16	8X-1368	2	Screw, Int. Bearing, Rd. Hd. 10-32x7/16
12X-195	5	Lockwasher, Lead Conn. & Brush Sc., 8	* Use as required.		
8X-304	4	Screw, Brush, Rd. Hd. 8-32x5/16			
12X-1014	1	Lockwasher, Term. Stud, 5/16			
8X-2988	1	Nut, Term. Stud, Hex. 5/16-18			
8X-3277	4	Rivet, Grounded Br. Holder			
8X-3284	4	Rivet, Insulated Br. Holder			
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			

UNIT	APPLICATION
MDF-6014	Massey-Harris

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MDG- 6001 STARTING MOTOR PARTS LIST

MDG- 6001
(Issued 6- 4- 56)

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	MDF- 1002	1	Head Assy., Comm. End
MDG- 2033	1	Frame & Field Assy.	MAD- 110	1	Felt
GK- 38	4	Screw, Pole Shoe	<u>Armature Assembly & Parts Used With</u>		
MAB- 31A	1	Washer, Ins. Term. Stud, Outer	MDF- 2088	1	ARMATURE
MAB- 85	1	Bushing, Ins., Term. Stud	MU- 54	1	Washer, Thrust, Int., 1/32" Thick
MCH- 34C	1	Stud, Terminal	MU- 54	*	Washer, Thrust, C. E., 1/32" Thick
MCJ- 39B	1	Washer, Ins., Term. Stud, Inner	MU- 54B	*	Washer, Thrust, C. E., 3/64" Thick
MDF- 16	4	Holder, Brush	MU- 54K	*	Washer, Thrust, C. E., .080" Thick
MDF- 25	4	Bushing, Ins., Br. Holder Rivet	MU- 54L	*	Washer, Thrust, C. E., 1/16" Thick
MDF- 31	1	Insulation, Br. Holder, Lower	X- 261	1	Key, Woodruff, D. E., #6
MDF- 2012S	1	BRUSH SET	<u>Miscellaneous Part</u>		
MDG- 30	1	Insulation, Br. Holder, Upper	EBB- 20	1	BENDIX DRIVE
MDG- 1005S	1	FIELD COIL PACKAGE	MCH- 1051	1	Bearing Assy., Intermediate
MN- 21	2	Pin, Dowel	PS- 1291G	1	Housing Assy., Pinion
MU- 37	1	Washer, Plain, Term. Stud, 5/16	MG- 77A	1	BEARING, ABS. BRONZE
MZ- 19	4	Spring, Brush	12X- 196	2	Lockwasher, Int. Bearing Sc., #10
8X- 59	1	Screw, Lead Conn., Rd. Hd. #8 - 32x3/16	8X- 1368	2	Screw, Int. Bearing, Rd. Hd. #10 - 32x7/16
12X- 195	5	Lockwasher, Lead Conn. & Brush Sc., #8	* Use as required.		
8X- 304	4	Screw, Brush, Rd. Hd. #8 - 32x5/16			
12X- 1014	1	Lockwasher, Term. Stud, 5/16			
8X- 2988	1	Nut, Term. Stud, Hex. 5/16 - 18			
8X- 3277	4	Rivet, Grounded Br. Holder			
8X- 3284	4	Rivet, Insulated Br. Holder			
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			

UNIT	APPLICATION
MDG- 6001	Dodge & Plymouth

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MDG-6002 STARTING MOTOR PARTS LIST

MDG-6002
(Issued 6-4-56)

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	MDF-1002	1	Head Assy., Comm. End
MDG-2033	1	Frame & Field Assy.	MAD-110	1	Felt
GK-38	4	Screw, Pole Shoe	<u>Armature Assembly & Parts Used With</u>		
MAB-31A	1	Washer, Ins., Term. Stud, Outer	MDF-2088	1	ARMATURE
MAB-85	1	Bushing, Ins., Term. Stud	MU-54	1	Washer, Thrust, Int., 1/32" Thick
MCH-34C	1	Stud, Terminal	MU-54	*	Washer, Thrust, C. E., 1/32" Thick
MCJ-39B	1	Washer, Ins., Term. Stud, Inner	MU-54B	*	Washer, Thrust, C. E., 3/64" Thick
MDF-16	4	Holder, Brush	MU-54K	*	Washer, Thrust, C. E., .080" Thick
MDF-25	4	Bushing, Ins., Br. Holder Rivet	MU-54L	*	Washer, Thrust, C. E., 1/16" Thick
MDF-31	1	Insulation, Br. Holder, Lower	X-261	1	Key, Woodruff, D. E., #6
MDF-2012S	1	BRUSH SET	<u>Miscellaneous Parts</u>		
MDG-30	1	Insulation, Br. Holder, Upper	EBB-20	1	BENDIX DRIVE
MDG-1005S	1	FIELD COIL PACKAGE	MCH-1051	1	Bearing Assy., Intermediate
MN-21	2	Pin, Dowel	PS-1291H	1	Housing Assy., Pinion
MU-37	1	Washer, Plain, Term. Stud, 5/16	MG-77A	1	BEARING, ABS. BRONZE
MZ-19	4	Spring, Brush	12X-196	2	Lockwasher, Int. Bearing Sc., #10
8X-59	1	Screw, Lead Conn., Rd. Hd. #8-32x3/16	8X-1368	2	Screw, Int. Bearing Rd. Hd. #10-32x7/16
12X-195	5	Lockwasher, Lead Conn. & Brush Sc., #8	* Use as required.		
8X-304	4	Screw, Brush, Rd. Hd. #8-32x5/16			
12X-1014	1	Lockwasher, Term. Stud, 5/16			
8X-2988	1	Nut, Term. Stud, Hex. 5/16-18			
8X-3277	4	Rivet, Grounded Br. Holder			
8X-3284	4	Rivet, Insulated Br. Holder			
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			

UNIT	APPLICATION
MDG-6002	Dodge & Plymouth

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MDG-6003 STARTING MOTOR PARTS LIST

MDG-6003
(Issued 7-2-56)

Frame & Field Assembly & Parts Used With			Armature Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru	MCH-96	1	Washer, Thrust, C. E.
MDG-2034	1	Frame & Field Assy.	MDF-2070	1	ARMATURE
GK-38	4	Screw, Pole Shoe	MN-18	1	Washer, Thrust, D. E.
MAW-37	1	Bushing, Ins. , Term. Stud	MU-54	*	Washer, Thrust, C. E. , 1/32" Thick
MAY-31C	1	Stud, Terminal	MU-54B	*	Washer, Thrust, C. E. , 3/64" Thick
MCH-25A	1	Washer, Ins. , Term. Stud	<u>Switch Assembly & Parts Used With</u>		
MDF-16	4	Holder, Brush	SW-2827	1	STARTING SWITCH
MDF-25	4	Washer, Ins. , Br. Holder Rivet	12X-201	1	Lockwasher, 3/8
MDF-31	2	Insulation, Br. Holder	8X-830	1	Nut, Hex. 3/8-16
MDF-2012S	1	BRUSH SET	8X-321	2	Screw, Switch Mtg. , Rd. Hd. #10-32x5/16
MDG-1005AS	1	FIELD COIL PACKAGE	X-1270	2	Washer, Switch Mtg. Sc. , Skpf. #10
MN-21	2	Pin, Dowel	<u>Clutch Assembly & Parts Used With</u>		
MZ-19	4	Spring, Brush	MCH-77	1	Pin, Yoke
SW-764S	1	Switch Contact Package	MCH-2099	1	Yoke
8X-59	1	Screw, Lead Conn. , Rd. Hd. #8-32x3/16	MCL-3075	1	CLUTCH, STARTER
12X-195	5	Lockwasher, Lead Conn. & Brush Sc. , #8	X-406	1	Pin, Cotter, Yoke Pin, 3/32x1/2
12X-201	1	Lockwasher, Term. Stud, 3/8	<u>Miscellaneous Parts</u>		
8X-304	4	Screw, Brush, Rd. Hd. #8-32x5/16	MCS-46	1	Retainer & Pinion Stop
8X-830	1	Nut, Term. Stud, Hex. 3/8-16	MCS-47A	1	Ring, Snap, Retainer & Pinion Stop
8X-3277	4	Rivet, Grounded Br. Holder	PS-1302A	1	Housing Assy. , Pinion
8X-3284	4	Rivet, Insulated Br. Holder	MP-41A	1	BEARING, ABS. BRONZE
12X-199	2	Lockwasher, Thru Bolt, 1/4			
<u>Comm. End Head Assembly & Parts Used With</u>					
MDF-1002	1	Head Assy. , Comm. End			
MAD-110	1	Felt			

* Use as required.

UNIT	APPLICATION
MDG-6003	Dodge Truck

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MDG- 6004 STARTING MOTOR PARTS LIST

MDG- 6004
(Issued 7-2-56)

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
MAJ- 20	2	Bolt, Thru	MDF- 1002	1	Head Assy. , Comm. End
MDG- 2033	1	Frame & Field Assy.	MAD- 110	1	Felt
GK- 38	4	Screw, Pole Shoe	Armature Assembly & Parts Used With		
MAB- 31A	1	Washer, Ins. , Term. Stud, Outer	MDF- 2020	1	ARMATURE
MAB- 85	1	Bushing, Ins. , Term. Stud	MU- 54	1	Washer, Thrust, D. E. , 1/32" Thick
MCH- 34C	1	Stud, Terminal	MU- 54	*	Washer, Thrust, C. E. , 1/32" Thick
MCJ- 39B	1	Washer, Ins. , Term. Stud, Inner	MU- 54B	*	Washer, Thrust, C. E. , 3/64" Thick
MDF- 16	4	Holder, Brush	MU- 54K	*	Washer, Thrust, C. E. , .080" Thick
MDF- 25	4	Washer, Ins. , Br. Holder Rivet	MU- 54L	*	Washer, Thrust, C. E. , 1/16" Thick
MDF- 31	1	Insulation, Br. Holder, Lower	Miscellaneous Parts		
MDF- 2012S	1	BRUSH SET	EBA- 35	1	BENDIX DRIVE ASSY.
MDG- 30	1	Insulation, Br. Holder, Upper	EBA- 513	1	Spring, Anti-Drift
MDG- 1005S	1	FIELD COIL PACKAGE	EBA- 525	1	Spring, Meshing
MN- 21	2	Pin, Dowel	EBA- 1233	1	Ring, Retaining
MU- 37	1	Washer, Plain, Term. Stud, 5/16	EBA- 2008	1	Ring, Lock
MZ- 19	4	Spring, Brush	EBA- 3307	2	Plate, Spring Anchor
8X- 59	1	Screw, Lead Conn. , Rd. Hd. #8- 32x3/16	EBA- 3505	1	SPRING, DRIVE
12X- 195	5	Lockwasher, Lead Conn. & Brush Sc. , #8	EBA- 3531	1	Shaft
8X- 304	4	Screw, Brush, Rd. Hd. #8- 32x5/16	EBA- 3532	1	Pinion
12X- 1014	1	Lockwasher, Term. Stud, 5/16	MDG- 1003	1	Head Assy. , Drive End
8X- 2988	1	Nut, Term. Stud, Hex. 5/16- 18	MAB- 124	1	BEARING, ABS. BRONZE
8X- 3277	4	Rivet, Grounded Br. Holder	MZ- 124	1	Pin, Bendix
8X- 3284	4	Rivet, Insulated Br. Holder	* Use as required.		
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			

UNIT	APPLICATION
MDG- 6004	Studebaker Truck

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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

MDH-4001M STARTING MOTOR PARTS LIST

MDH-4001M
(Issued 7-1-55)

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
MDH-20	2	Bolt, Thru	MDH-37	1	Washer, Thrust, D. E. , 1/32" Thick
MDH-3001	1	Frame & Field Assembly	MDH-39	1	Washer, Thrust, C. E. , .045" Thick
MAK-49	1	Washer, Ins. , Term. Stud, Inner	MDH-40	1	Washer, Thrust, C. E. , 1/32" Thick
MAK-49A	1	Washer, Ins. , Term. Stud, Outer	MDH-2006	1	ARMATURE
MDH-27	1	Bushing, Ins. , Term. Stud	<u>Miscellaneous Parts</u>		
MDH-28	1	Stud, Terminal	EBB-47A	1	DRIVE ASSEMBLY
MDH-38	4	Screw, Pole Shoe	EB-6828A	1	Nut, Hex. , Castellated
MDH-45	1	Insulation, Field Connection	EBB-4701A	1	Screw Shaft
MDH-3005S	1	FIELD COIL PACKAGE	EBB-4702A	1	Stop, Pinion
MDH-1007A	1	Coil Assy. , Field, Left Brush	EBB-4704A	1	Pinion
MDH-12A†	1	Brush	EBB-4713A	1	Spring, Anti-Drift
MDH-1010A	1	Coil Assy. , Field, Right Brush	EBB-4723A	1	Washer, Thrust, Cushion
MDH-12†	1	Brush	EBB-4726A	1	Sleeve, Anti-Drift Spring
SSA-43A	1	Washer, Plain, Term. Stud	EBB-4727A	1	Washer, Pinion
12X-199	2	Lockwasher, Term. Stud, 1/4	EBB-4736A	1	Cup, Cushion
X-3275	2	Nut, Term. Stud, Hex. 1/4-20	EBB-4737A	1	Cushion
12X-199	2	Lockwasher, Thru Bolt, 1/4	EBB-4738A	1	Spacer, Cushion
8X-3075	2	Nut, Thru Bolt, Hex. 1/4-20	EBB-4739A	1	Washer, Thrust, Cup
<u>Comm. End Head Assembly & Parts Used With</u>			19X-404	1	Pin, Cotter
MDH-3002	1	Head Assy. , Comm. End	MDH-1003	1	Head Assy. , Drive End
MDH-18	4	Spring, Brush	MDH-1024	1	Cover Band
MDH-42	1	Felt	X-2875	1	Nut, Cover Band, Square #10-32
MDH-1044S†	2	Brush, Grounded	X-2882	1	Screw, Cover Band, Fill. Hd. #10-32x1 1/2

† BRUSH SET, SERVICE MDH-2012S.

UNIT	APPLICATION
MDH-4001M	Evinrude, Johnson

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File in
Equipment & Parts List Binder

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MDH- 4002M STARTING MOTOR PARTS LIST

MDH- 4002M
(Issued 6- 29- 56)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
MDH- 20	2	Bolt, Thru
MDH- 2001	1	Frame & Field Assy.
MAK- 49	1	Washer, Ins., Term. Stud, Inner
MAK- 49A	1	Washer, Ins., Term. Stud, Outer
MDH- 12 †	1	BRUSH
MDH- 12A †	1	BRUSH
MDH- 27	1	Bushing, Ins., Term. Stud
MDH- 28	1	Stud, Terminal
MDH- 38	4	Screw, Pole Shoe
MDH- 45	1	Insulation, Field Connection
MDH- 3005AS	1	FIELD COIL PACKAGE
MDH- 1007BS	1	Coil Assy., Field, Left
MDH- 1010BS	1	Coil Assy., Field, Right
SSA- 43A	1	Washer, Plain, Term. Stud
12X- 199	2	Lockwasher, Term. Stud, 1/4
X- 3275	2	Nut, Term. Stud, Hex. 1/4- 20
12X- 199	2	Lockwasher, Thru Bolt, 1/4
8X- 3075	2	Nut, Thru Bolt, Hex. 1/4- 20

Comm. End Head Assembly & Parts Used With

Part No.	No. Used	Name of Part
MDH- 2035	1	Head Assy., Comm. End
MDH- 18	4	Spring, Brush
MDH- 42	1	Felt
MDH- 1044S †	2	BRUSH, GROUNDED

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part
MDH- 37	1	Washer, Thrust, D. E., 1/32" Thick
MDH- 39	1	Washer, Thrust, C. E., .045" Thick
MDH- 40	*	Washer, Thrust, C. E., 1/32" Thick
MDH- 2006	1	ARMATURE
<u>Miscellaneous Parts</u>		
EBB- 54A	1	DRIVE ASSY.
MDH- 1003	1	Head Assy., Drive End
MDH- 1024	1	Band, Cover
X- 26	1	Screw, Cover Band, Rd. Hd. 10- 32x1
X- 2875	1	Nut, Cover Band, Square 10- 32

† BRUSH SET, SERVICE MDH- 2012S.

* Use as required.

UNIT	APPLICATION
MDH- 4002M	Fageol, Twin Coach

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MDL-6001 STARTING MOTOR PARTS LIST

MDL-6001
(Issued 9-28-56)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru
MDL-2001	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MDF-23	1	Grommet, Connector
MDF-26	1	Connector, Switch
MDL-23	2	Holder, Brush, Insulated
MDL-24	2	Holder, Brush, Grounded
MDL-25	2	Spring, Brush
MDL-26	2	Pin, Brush Holder
MDL-31A	2	Insulation, Field Connection
MDL-1005S	1	FIELD COIL PACKAGE
MDL-2012S	1	BRUSH SET
MN-21	2	Pin, Dowel
8X-59	1	Screw, Ground Lead, Rd. Hd. #8-32x3/16
12X-195	2	Lockwasher, Switch Conn. & Grd. Lead Sc., #8
8X-304	1	Screw, Switch Connector, Rd. Hd. #8-32x5/16
X-3305	4	Screw, Brush, Bdg. Hd. #6-32x5/8
12X-199	2	Lockwasher, Thru Bolt, 1/4

Comm. End Head Assembly & Parts Used With

MDL-1002	1	Head Assy., Comm. End
MAD-110	1	Felt

Armature Assembly & Parts Used With

MCH-96	1	Washer, Thrust, Comm. End
MCL-132	1	Washer, Thrust, D. E.
MDL-2006	1	ARMATURE
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
SAD-27	1	Spring, Plunger, 3 17/32"
SAD-1021	1	Moving Core Assy.
SAD-21	1	Cover, Moving
SAD-33	1	Rubber, Cap
SAD-1022	1	Screw & Link Assy.
SS-60	1	Washer, Steel, 3/8
SSX-35	1	Spring, Rubber Cap
SAD-4301	1	SOLENOID STARTING SWITCH (See separate list for parts)
SSX-36	1	Plug
12X-199	4	Lockwasher, Switch Mtg. Sc., 1/4
12X-200	1	Lockwasher, Switch Terminal, 5/16
8X-467	4	Screw, Switch Mtg., Hex. Hd. 1/4-20x3/8
8X-2988	1	Nut, Switch Terminal, Hex. 5/16-18

Clutch Assembly & Parts Used With

MCH-1074E	1	Yoke
MCL-58	1	Pin, Yoke
MCL-59	1	Clamp, Yoke Cover
MDF-27	1	Pin, Link
MDF-28	1	Cover, Yoke
MDL-3123	1	CLUTCH, STARTER
X-401	1	Pin, Cotter, Link Pin, 1/16x3/8

Miscellaneous Parts

MCL-53	1	Plate, Intermediate
MCL-127	1	Ring, Snap, Retainer & Pinion Stop
MCL-129	1	Retainer & Pinion Stop
PS-1316C	1	Housing Assy., Pinion
MDD-34	1	BEARING, ABS, BRONZE
12X-196	2	Lockwasher, Int. Plate Sc., #10
8X-311	2	Screw, Int. Plate, Rd. Hd. #10-32x3/8

* Use as required.

UNIT	APPLICATION
MDL-6001	Chrysler, DeSoto, Imperial

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MDL- 6003 STARTING MOTOR PARTS LIST

MDL- 6003
(Issued 9-28-56)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GJ- 20	2	Bolt, Thru
MDL- 2033	1	Frame & Field Assy.
GK- 38	4	Screw, Pole Shoe
MAB- 31C	1	Washer, Ins. , Term. Stud, Outer
MDL- 23	2	Holder, Brush, Insulated
MDL- 24	2	Holder, Brush, Grounded
MDL- 25	2	Spring, Brush
MDL- 26	2	Pin, Brush Holder
MDL- 31A	2	Insulation, Field Connection
MDL- 90	1	Bushing, Ins. , Term. Stud
MDL- 1005S	1	FIELD COIL PACKAGE
MDL- 2012S	1	BRUSH SET
MDM- 27	1	Washer, Ins. , Term. Stud, Inner
MDM- 28	1	Stud, Terminal
MN- 21	2	Pin, Dowel
MU- 37	1	Washer, Plain, Term. Stud, 5/16
8X- 59	1	Screw, Ground Lead, Rd. Hd. #8 - 32x3/16
12X- 195	2	Lockwasher, Term. Stud & Grd. Lead Sc. , #8
8X- 304	1	Screw, Term. Stud Lead, Rd. Hd. #8 - 32x5/16
12X- 1014	1	Lockwasher, Term. Stud, 5/16
8X- 2988	1	Nut, Term. Stud, Hex. 5/16 - 18
X- 3305	4	Screw, Brush, Bdg. Hd. #6 - 32x5/8
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

MDL- 1002	1	Head Assy. , Comm. End
MAD- 110	1	Felt

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part
MDL- 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

Miscellaneous Parts

EBB- 53	1	BENDIX DRIVE
MCH- 1051	1	Bearing Assy. , Intermediate
PS- 1291L	1	Housing Assy. , Pinion
MDD- 34	1	BEARING, ABS. BRONZE
12X- 196	2	Screw, Int. Bearing Sc. , #10
8X- 1368	2	Screw, Int. Bearing, Rd. Hd. #10- 32x7/16

* Use as required.

UNIT	APPLICATION
MDL- 6003	Dodge 8, DeSoto

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MDL- 6004 STARTING MOTOR PARTS LIST

MDL- 6004
(Issued 9-28-56)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru
MDL-2033	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAB-31C	1	Washer, Ins., Term. Stud, Outer
MDL-23	2	Holder, Brush, Insulated
MDL-24	2	Holder, Brush, Ground-ed
MDL-25	2	Spring, Brush
MDL-26	2	Pin, Brush, Holder
MDL-31A	2	Insulation, Field Connection
MDL-90	1	Bushing, Ins., Term. Stud
MDL-1005S	1	FIELD COIL PACKAGE
MDL-2012S	1	BRUSH SET
MDM-27	1	Washer, Ins., Term. Stud, Inner
MDM-28	1	Stud, Terminal
MN-21	2	Pin, Dowel
MU-37	1	Washer, Plain, Term. Stud, 5/16
8X-59	1	Screw, Ground Lead, Rd. Hd. #8 - 32x3/16
12X-195	2	Lockwasher, Term. Stud & Grd. Lead Sc., #8
8X-304	1	Screw, Term. Stud Lead, Rd. Hd. #8 - 32x5/16
12X-1014	1	Lockwasher, Term. Stud, 5/16
8X-2988	1	Nut, Term. Stud, Hex. 5/16-18
X-3305	4	Screw, Brush, Bdg. Hd. #6 - 32x5/8
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

MDL-1002	1	Head Assy., Comm. End
MAD-110	1	Felt

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part
MDL-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

Miscellaneous Parts

EBB-53	1	BENDIX DRIVE
MCH-1051	1	Bearing Assy., Intermediate
PS-1291M	1	Housing Assy., Pinion
MDD-34	1	BEARING, ABS. BRONZE
12X-196	2	Lockwasher, Int. Bearing Sc., #10
8X-1368	2	Screw, Int. Bearing, Rd. Hd. #10-32x7/16

* Use as required.

UNIT	APPLICATION
MDL-6004	Dodge 6, Plymouth 6

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MDL- 6005 STARTING MOTOR PARTS LIST

MDL- 6005
(Issued 10- 12- 56)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GJ- 20	2	Bolt, Thru
MDL- 2001	1	Frame & Field Assy.
GK- 38	4	Screw, Pole Shoe
MDF- 23	1	Grommet, Connector
MDF- 26	1	Connector, Switch
MDL- 23	2	Holder, Brush, Insulated
MDL- 24	2	Holder, Brush, Grounded
MDL- 25	2	Spring, Brush
MDL- 26	2	Pin, Brush Holder
MDL- 31A	2	Insulation, Field Connection
MDL- 1005S	1	FIELD COIL PACKAGE
MDL- 2012S	1	BRUSH SET
MN- 21	2	Pin, Dowel
8X- 59	1	Screw, Ground Lead, Rd. Hd. #8- 32x3/16
12X- 195	2	Lockwasher, Switch Conn. & Grd. Lead Sc. , #8
8X- 304	1	Screw, Switch Connector, Rd. Hd. #8- 32x5/16
X- 3305	4	Screw, Brush, Bdg. Hd. #6- 32x5/8
12X- 199	2	Lockwasher, Thru Bolt, 1/4

Comm. End Head Assembly & Parts Used With

MDL- 1002	1	Head Assy. , Comm. End
MAD- 110	1	Felt

Armature Assembly & Parts Used With

MCH- 96	1	Washer, Thrust, Comm. End
MCL- 132	1	Washer, Thrust, D. E.
MDL- 2006	1	ARMATURE
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
SAD- 27	1	Spring, Plunger, 3 17/32"
SAD- 1021	1	Moving Core Assy.
SAD- 21	1	Core, Moving
SAD- 33	1	Rubber Cap
SAD- 1022	1	Screw & Link Assy.
SS- 60	1	Washer, Steel, 3/8
SSX- 35	1	Spring, Rubber Cap
SAG- 4001	1	SOLENOID STARTING SWITCH (See separate list for parts)
SSX- 36	1	Plug, Plunger Spring
12X- 199	4	Lockwasher, Switch Mt g. Sc. , 1/4
12X- 200	1	Lockwasher, Switch Terminal, 5/16
8X- 467	4	Screw, Switch Mtg. , Hex. Hd. 1/4- 20x3/8
8X- 2988	1	Nut, Switch Terminal, Hex. 5/16- 18

Clutch Assembly & Parts Used With

MCH- 1074E	1	Yoke
MCL- 58	1	Pin, Yoke
MCL- 59	1	Clamp, Yoke Cover
MDF- 27	1	Pin, Link
MDF- 28	1	Cover, Yoke
MDL- 3123	1	CLUTCH, STARTER
X- 401	1	Pin, Cotter, Link Pin, 1/16x3/8

Miscellaneous Parts

MCL- 53	1	Plate, Intermediate
MCL- 127	1	Ring, Snap, Retainer & Pinion Stop
MCL- 129	1	Retainer & Pinion Stop
PS- 1319B	1	Housing Assy. , Pinion
MDD- 34	1	BEARING, ABS. BRONZE
12X- 196	2	Lockwasher, Int. Plate Sc. , #10
8X- 311	2	Screw, Int. Plate, Rd. Hd. #10- 32x3/8

* Use as required.

UNIT	APPLICATION
MDL- 6005	Dodge Truck

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MDM-6001 STARTING MOTOR PARTS LIST

MDM-6001
(Issued 9-28-56)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GJ-20	2	Bolt, Thru
MDM-2033	1	Frame & Field Assy.
GK-38	4	Screw, Pole Shoe
MAB-31C	1	Washer, Ins., Term. Stud, Outer
MDL-23	2	Holder, Brush, Insulated
MDL-24	2	Holder, Brush, Grounded
MDL-25	2	Spring, Brush
MDL-26	2	Pin, Brush Holder
MDL-31A	2	Insulation, Field Connection
MDL-90	1	Bushing, Ins., Term. Stud
MDL-2012S	1	BRUSH SET
MDM-27	1	Washer, Ins., Term. Stud, Inner
MDM-28	1	Stud, Terminal
MDM-1005S	1	FIELD COIL PACKAGE
MN-21	2	Pin, Dowel
MU-37	1	Washer, Plain, Term. Stud, 5/16
8X-59	1	Screw, Ground Lead, Rd. Hd. #8 - 32x3/16
12X-195	2	Lockwasher, Term. Stud & Grd. Lead Sc., #8
8X-304	1	Screw, Term. Stud Lead, Rd. Hd. #8 - 32x5/16
12X-1014	1	Lockwasher, Term. Stud, 5/16
8X-2988	1	Nut, Term. Stud, Hex. 5/16-18
X-3305	4	Screw, Brush, Bdg. Hd. #6 - 32x5/8
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

MDL-1002	1	Head Assy., Comm. End
MAD-110	1	Felt

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part
MDL-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

Miscellaneous Parts

EBB-53	1	BENDIX DRIVE
MCH-1051	1	Bearing Assy., Intermediate
PS-1291L	1	Housing Assy., Pinion
MDD-34	1	BEARING, ABS. BRONZE
12X-196	2	Lockwasher, Int. Bearing Sc., #10
8X-1368	2	Screw, Int. Bearing, Rd. Hd. #10 - 32x7/16

* Use as required.

UNIT	APPLICATION
MDM-6001	Dodge 6, Plymouth 6-8

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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

MDM- 6002 STARTING MOTOR PARTS LIST

MDM- 6002
(Issued 9- 28 - 56)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GJ- 20	2	Bolt, Thru
MDM- 2033	1	Frame & Field Assy.
GK- 38	4	Screw, Pole Shoe
MAB- 31C	1	Washer, Ins. , Term. Stud, Outer
MDL- 23	2	Holder, Brush, Insulated
MDL- 24	2	Holder, Brush, Grounded
MDL- 25	2	Spring, Brush
MDL- 26	2	Pin, Brush Holder
MDL- 31A	2	Insulation, Field Connection
MDL- 90	1	Bushing, Ins. , Term. Stud
MDL- 2012S	1	BRUSH SET
MDM- 27	1	Washer, Ins. , Term. Stud, Inner
MDM- 28	1	Stud, Terminal
MDM- 1005S	1	FIELD COIL PACKAGE
MN- 21	2	Pin, Dowel
MU- 37	1	Washer, Plain, Term. Stud, 5/16
8X- 59	1	Screw, Ground Lead, Rd. Hd. #8 - 32x3/16
12X- 195	2	Lockwasher, Term. Stud & Grd. Lead Sc. , #8
8X- 304	1	Screw, Term. Stud Lead, Rd. Hd. #8 - 32x5/16
12X- 1014	1	Lockwasher, Term. Stud, 5/16
8X- 2988	1	Nut, Term. Stud, Hex. 5/16- 18
X- 3305	4	Screw, Brush, Bdg. Hd. #6 - 32x5/8
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

MDL- 1002	1	Head Assy. , Comm. End
MAD- 110	1	Felt

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part
MDL- 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

Miscellaneous Parts

EBB- 53	1	BENDIX DRIVE
MCH- 1051	1	Bearing Assy. , Intermediate
PS- 1291M	1	Housing Assy. , Pinion
MDD- 34	1	BEARING, ABS. BRONZE
12X- 196	2	Lockwasher, Int. Bearing Sc. , #10
8X- 1368	2	Screw, Int. Bearing, Rd. Hd. #10- 32x7/16

* Use as required.

UNIT	APPLICATION
MDM- 6002	Plymouth 8

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

MDO- 4002M STARTING MOTOR PARTS LIST

MDO- 4002M
(Issued 10- 29- 56)

Frame & Field Assembly & Parts Used With			Armature Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MDO- 20	2	Bolt, Thru	MDH- 37	1	Washer, Thrust, D. E. , 1/32" Thick
MDO- 2001	1	Frame & Field Assy.	MDO- 38	1	Washer, Thrust, D. E. , .042" Thick
MAK- 49A	1	Washer, Ins. , Term. Stud, Outer	MDH- 40	*	Washer, Thrust, C. E. , 1/32" Thick
MDO- 12	† 1	Brush	MDH- 39	1	Washer, Thrust, C. E. , .045" Thick
MDO- 22	1	Stud, Terminal	MDO- 2006	1	ARMATURE
MDO- 31	1	Insulation, Field Connection	<u>Miscellaneous Parts</u>		
MDO- 32	1	Insulation, Field Coil	EBB- 56A	1	DRIVE ASSEMBLY
MDO- 42	1	Washer, Ins. , Term. Stud, Inner	EB- 6828A	1	Nut, Hex. , Castellated
MDO- 43	2	Bushing, Ins. , Term. Stud	EBB- 4723A	1	Washer, Thrust, Cushion
MDO- 3005S	1	FIELD COIL PACKAGE	EBB- 5601A	3	Screw Shaft
MDO- 1007	1	Coil, Field, Left	EBB- 5602A	1	Stop, Pinion
MDO- 1008	1	Coil, Field, Right	EBB- 5604A	1	Pinion
SSA- 43A	1	Washer, Plain, Term, Stud	EBB- 5613A	1	Spring, Anti- Drift
12X- 199	2	Lockwasher, Term, Stud , 1/4	EBB- 5626A	1	Sleeve, Anti- Drift Spring
19X- 1521	2	Screw, Pole Shoe	EBB- 5627A	1	Washer, Pinion
X- 3275	2	Nut, Term. Stud, Hex, 1/4- 20	EBB- 5636A	1	Cup, Cushion
XA- 866	1	Connector, Field Coil	EBB- 5637A	1	Cushion
12X- 199	2	Lockwasher, Thru Bolt, 1/4	EBB- 5638A	1	Spacer, Cushion
8X- 3075	2	Nut, Thru Bolt, Hex. 1/4- 20	EBB- 5634A	1	Washer, Thrust, Cup
<u>Comm. End Head Assembly & Parts Used With</u>			19X- 404	1	Pin, Cotter
MDO- 3002	1	Head Assy. , Comm. End	MDO- 1003	1	Head Assy. , Drive End
MDH- 18	2	Spring, Brush			
MDH- 42	1	Felt			
MDO- 1034S	† 1	Brush, Grounded			

* Use as Required

† BRUSH SET, SERVICE MDO- 2012S

UNIT	APPLICATION
MDO- 4002M	Evinrude

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML 12 VOLT COMM. END HEAD ASSEMBLIES

ML-2090
ML-3090

ML-2090 (C.W.D.E.)

ML-3090 (C.C.W.D.E.)

ML-2090 (C.W.D.E.)					ML-3090 (C.C.W.D.E.)								
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
ML-2090	1	Comm. End Head Assy.					ML-3090	1	Comm. End Head Assy.				
GK-162	2	Br. Holder Spacing Ins.					GK-162	2	Br. Holder Spacing Ins.				
GT-14	4	Brush Holder					GT-17	4	Brush Holder				
GT-32	2	Spring Insulator					GT-32	2	Spring Insulator				
GT-35	2	Insulating Bushing					GT-35	2	Insulating Bushing				
GT-37	2	Insulating Washer					GT-37	2	Insulating Washer				
GT-41	2	Br. Holder Post Clip					GT-41	2	Br. Holder Post Clip				
MG-74	4	Brush Spring					MG-73	4	Brush Spring				
MH-53	2	Ground Connector					MH-53	2	Ground Connector				
MH-54	4	Brush					MH-54	4	Brush				
ML-1090S	1	C.E. Head Part Assy.					ML-1090S	1	C.E. Head Part Assy.				
ML-1040S	1	C.E. Cap & Brg. Assy.					ML-1040S	1	C.E. Cap & Brg. Assy.				
MAL-40A	1	Absorbent Bronze Bearing					MAL-40A	1	Absorbent Bronze Bearing				
6X-1452	4	3/16x5/16 Oval Hd. Rivet					6X-1452	4	3/16x5/16 Oval Hd. Rivet				
6X-122	4	#8-32x1/2 Fill. Hd. Screw					6X-122	4	#8-32x1/2 Fill. Hd. Screw				
X-195	4	#8 Lock Washer					X-195	4	#8 Lock Washer				
X-196	2	#10 Lock Washer					X-196	2	#10 Lock Washer				
6X-311	2	#10-32x3/8 Rd. Hd. Screw					6X-311	2	#10-32x3/8 Rd. Hd. Screw				
6X-794	2	#10-32 Square Nut					6X-794	2	#10-32 Square Nut				
		1	2	3	4	5			1	2	3	4	5

NOTE:- The ML-2090 and ML-3090 commutator end head assemblies are new heads designed with special reinforcement to take the heavy end thrust of the 12 volt starters. These commutator end heads will replace the MH-3075 and MH-2075 commutator end heads respectively as complete heads but the sub parts are not all interchangeable. Manual Bulletin M-2 covers in further detail this change of commutator end heads.

The ML-2090 head assembly is used on starting motors:

ML-4123	ML-4145
ML-4124	ML-4147
ML-4136	ML-4148
ML-4137	ML-4153
ML-4138	

The ML-3090 head assembly is used on starting motors:

ML-4127	ML-4142
ML-4135	ML-4143
ML-4140	

(Issued 9-22-37)

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

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4130 STARTING MOTOR PARTS LIST

ML-4130

Frame & Field Assembly & Parts Used With

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

Terminal Post Assembly & Parts Used With

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

Comm. End Head Assembly & Parts Used With

MG-10843	1					Bearing Cover with Oiler
(ML-2090)	1					Comm. End Head Assy.
GK-162	2					Br. Holder Spacing Ins.
GT-14	4					Brush Holder
GT-32	2					Spring Insulator
GT-35	2					Insulating Bushing
GT-37	2					Insulating Washer
GT-41	2					Br. Holder Post Clip
MG-74	4					Brush Spring
MH-53	2					Ground Connector
MH-54	4					Brush
ML-10903	1					C.E. Head Part Assy.
ML-10403	1					C.E. Cap & Brg. Assy.
MR-3	1					Absorbent Bronze Bearing
8X-1452	4					3/16x5/16 Oval Head Rivet
8X-122	4					#8-32x1/2 Fill. Hd. Sc.
X-195	4					#8 Lock Washer
X-196	2					#10 Lock Washer
8X-311	2					#10-32x3/8 Rd. Hd. Screw
8X-794	2					#10-32 Square Nut
		1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GK-174A	1					1/2 Plain Washer
MG-61	1					7/8 Plain Washer
ML-2039	1					Armature Assembly
X-261	1					#6 Woodruff Key

Miscellaneous Parts

EB-31	1					Bendix Drive Assy.
GX-1024	1					Head Band Assy.
HS-1041	1					Pinion Housing Assy.
MG-77	1					Bronze Graphite Brg.
MH-1034	1					Intermediate Plate Assy.
MH-77	1					Bronze Graphite Brg.
X-95	4					5/16-18x7/8 Hex. Hd. Sc.
6X-1010A	1					#8-32x1 1/4 Rd. Hd. Sc. - Hardened
X-1014	4					5/16 Lock Washer
6X-1410	1					#8-32 Square Nut
		1	2	3	4	5

(Issued 7-27-27)
(R-1-11-37)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4145 STARTING MOTOR PARTS LIST

ML-4145

Frame & Field Assembly & Parts Used With

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

Terminal Post Assembly & Parts Used With

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

Comm. End Head Assembly & Parts Used With

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

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GK-174A	1					1/2 Plain Washer
MG-61	1					7/8 Plain Washer
ML-2085	1					Armature Assy.
X-261	2					#8 Woodruff Key

Miscellaneous Parts

EB-45A	1					Bendix Drive Assy.
GX-1024	1					Head Band Assy.
HS-1082	1					Pinion Housing Assy.
ML-18	1					Bronze Graphite Brg. - 1/32 Wall
MN-21	1					Dowel Pin
ML-2019	1					Intermediate Brg. Assy.
ML-21	1					Bronze Graphite Brg. - 1/32 Wall
8X-716	1					#8-32x1 1/8 Rd. Hd. Screw
8X-1410	1					#8-32 Square Nut
		1	2	3	4	5

(Issued 8-28-30)
(R-7-7-36)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4151 STARTING MOTOR PARTS LIST

ML-4151

Frame & Field Assembly & Parts Used With

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

Terminal Post Assembly & Parts Used With

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

Comm. End Head Assembly & Parts Used With

MG-1084S	1	Bearing Cover with Oiler				
(MH-3075)	1	Comm. End Head Assy.				
GK-162	2	Brush Holder Spacing Ins.				
GT-14	4	Brush Holder				
GT-32	2	Spring Insulator				
GT-35	2	Insulating Bushing				
GT-37	2	Insulating Washer				
GT-41	2	Brush Holder Post Clip				
MG-74	4	Brush Spring				
MH-53	2	Ground Connector				
MH-54	4	Brush				
MH-1075B	1	Comm. End Head Part Assy.				
MG-1036	1	Comm. End Cap & Brg. Assembly				
MR-3	1	Absorbent Bronze Bearing				
6X-245	4	1/8x3/8 Oval Hd. Rivet				
6X-122	4	#8-32x1/2 Fill. Hd. Screw				
X-195	4	#8 Lock Washer				
X-196	2	#10 Lock Washer				
6X-311	2	#10-32x3/8 Rd. Hd. Screw				
6X-794	2	#10-32 Square Nut				
		1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GK-174A	1	17/32 Plain Washer				
MG-61	1	7/8 Plain Washer				
ML-2035	1	Armature Assembly				
X-261	1	#6 Woodruff Key				

Miscellaneous Parts

EB-33	1	Bendix Drive Assy.				
GX-1024	1	Head Band Assy.				
ML-2027	1	Intermediate Brg. Assy.				
ML-21A	1	Absorbent Bronze Brg.				
PS-1047	1	Pinion Housing Assy.				
MAB-88	1	Dowel Pin				
MG-77A	1	Absorbent Bronze Brg.				
X-489	1	1/4 Oiler - Press in Type				
6X-1010A	1	#8-32x1 1/4 Rd. Hd. Screw - Hardened				
6X-1410	1	#8-32 Square Nut				
		1	2	3	4	5

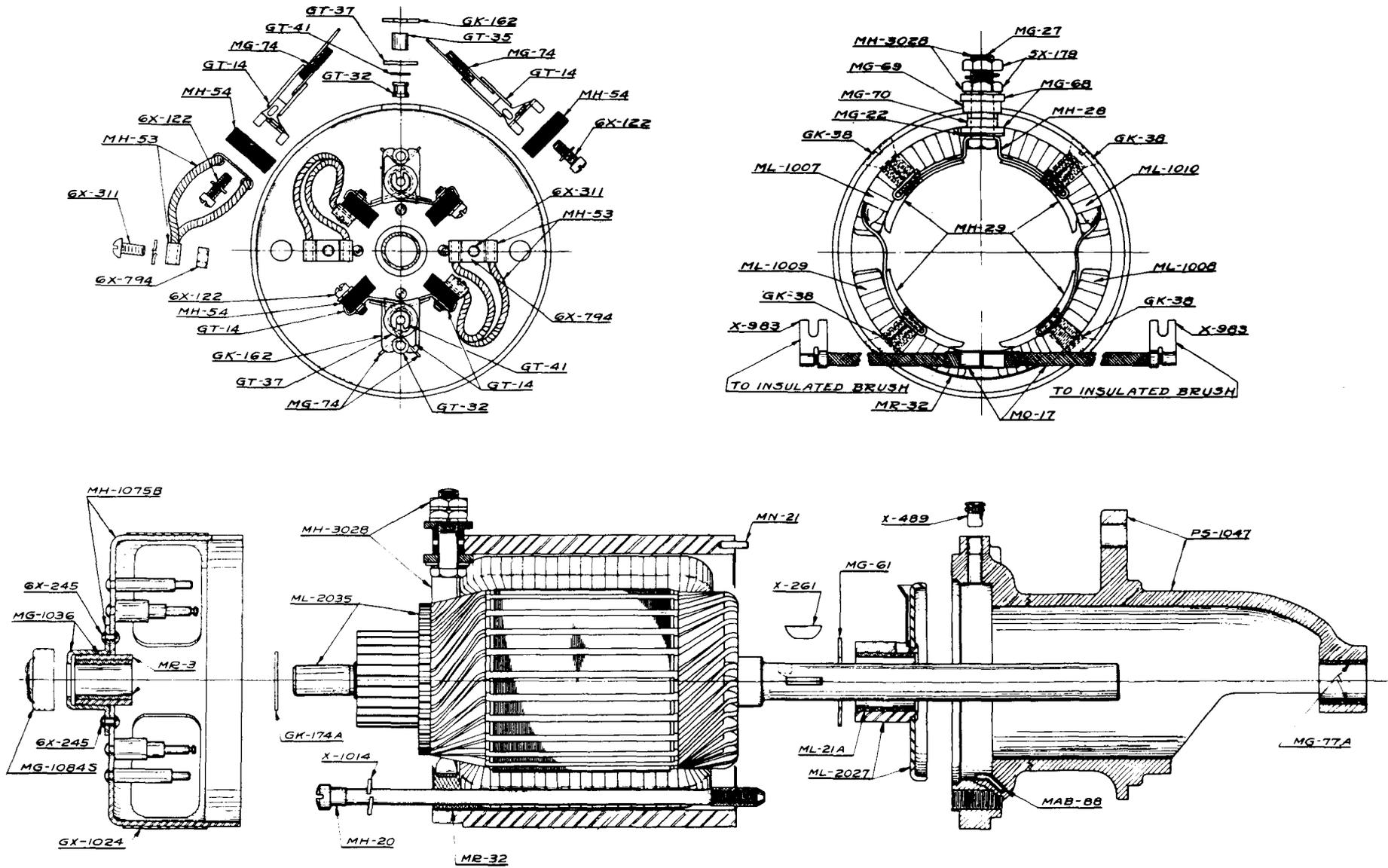
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(R-7-15-36)

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ML-4151 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4154 STARTING MOTOR PARTS LIST

ML-4154

Frame & Field Assembly & Parts Used With

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

Terminal Post Assembly & Parts Used With

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

Comm. End Head Assembly & Parts Used With

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

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GK-174A	1	1/2 Plain Washer				
MG-61	1	7/8 Plain Washer				
ML-2035	1	Armature Assembly				
X-261	1	#6 Woodruff Key				
<u>Miscellaneous Parts</u>						
EB-31	1	Bendix Drive				
GX-1024	1	Head Band Assembly				
ML-2027A	1	Intermediate Brg. Assy.				
ML-21A	1	Absorbent Bronze Brg.				
PS-1050	1	Pinion Housing Assy.				
MAB-88	1	Dowel Pin				
MG-77A	1	Absorbent Bronze Brg.				
8X-1010A	1	#8-32x1 1/4 Rd. Hd. Screw - Hardened				
8X-1410	1	#10-32 Square Nut				
		1	2	3	4	5

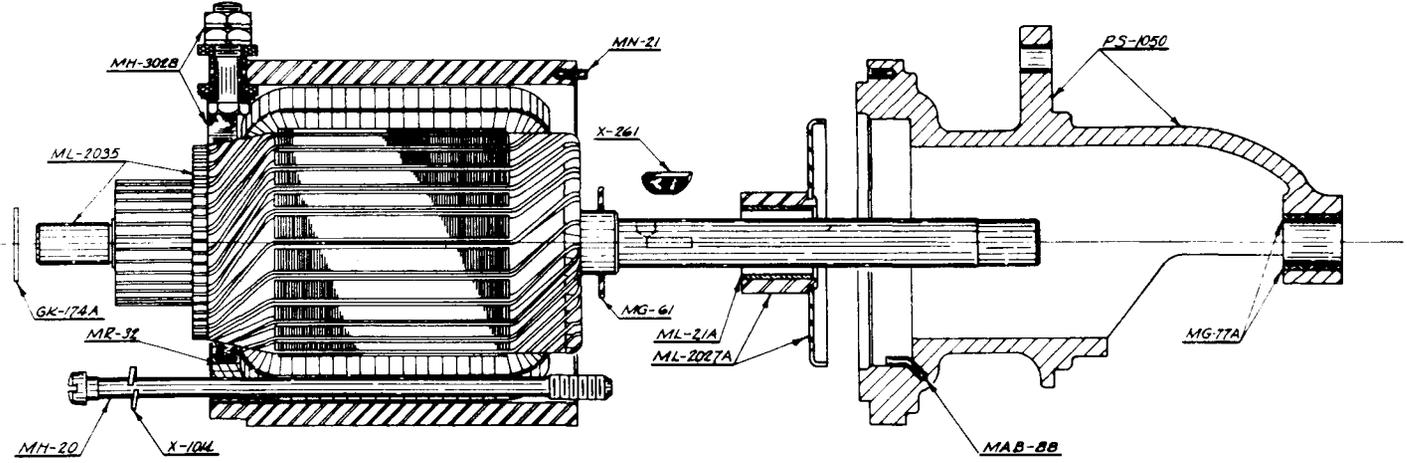
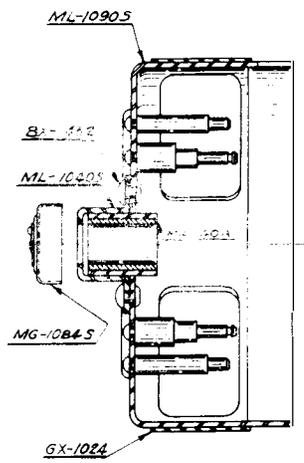
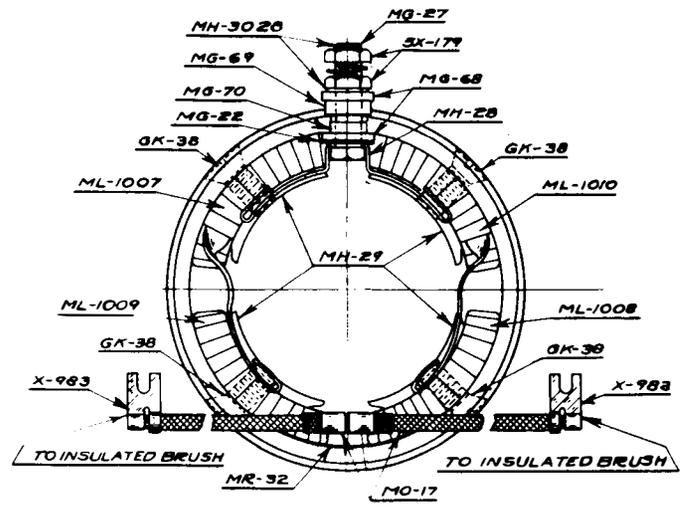
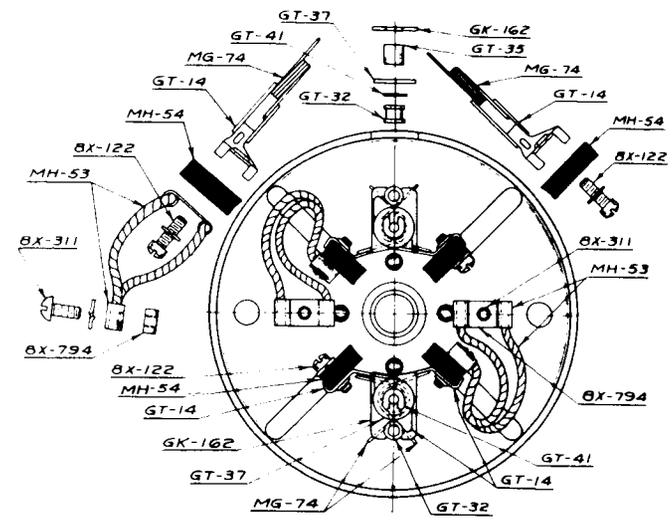
(Issued 10-22-37)

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

ML-4154 STARTING MOTOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4159 STARTING MOTOR PARTS LIST

ML-4159

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
MH-20	2	Frame Screw					
(ML-3083)	1	Frame & Field Assembly					
GK-38B	4	Pole Piece Screw					
MH-29	4	Pole Piece					
ML-1007	1	Field Coil - U.L.					
ML-1008	1	Field Coil --L.R.					
ML-1009	1	Field Coil - L.L.					
ML-1010	1	Field Coil - U.R.					
MN-21	1	Dowel Pin					
MO-17	1	Field Coil Lead Assy.					
X-983	2	Side Open Terminal					
MR-32	1	Field Coil Lead Ins.					
12X-1014	2	5/16 Lock Washer					

Terminal Post Assembly & Parts Used With

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

Comm. End Head Assembly & Parts Used With

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

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
GK-174A	1	1/2 Plain Washer					
MG-61	1	7/8 Plain Washer					
ML-2037	1	ARMATURE ASSEMBLY					
X-261	1	#6 Woodruff Key					

Miscellaneous Parts

GX-1024J	1	Head Band Assembly					
MH-1034C	1	INTERMEDIATE PLATE ASSY.					
MH-77	1	Bronze Graphite Brg.					
X-489	1	1/4 Oiler - Press in Type					
8X-1010A	1	#8-32x1 1/4 Rd. Hd. Screw					
8X-1410	1	#8-32 Square Nut					
			1	2	3	4	5

(Issued 5-10-39)

UNIT	APPLICATION
ML-4159	Auto Engine

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File in
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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4166 STARTING MOTOR PARTS LIST

ML-4166

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
MH-20	2	Frame Screw				
(ML-1086)	1	Frame & Field Assy.				
GK-38	4	Pole Piece Screw				
MH-29	4	Pole Piece				
ML-1007	1	Field Coil - U.L.				
ML-1008	1	Field Coil - L.R.				
ML-1009	1	Field Coil - L.L.				
ML-1010	1	Field Coil - U.R.				
MN-21	1	Dowel Pin				
MO-17	1	Field Coil Lead Assy.				
X-983	2	Terminal				
MR-32	1	Field Connection Ins.				
X-1014	2	5/16 Lock Washer				

Terminal Post Assembly & Parts Used With

MH-1087	1	Terminal Post Assy.				
MC-12	1	3/8 Insulating Washer				
MG-22	1	Plain Steel Washer				
MG-68	1	Insulating Washer				
MG-69	1	Term. Post Cover Ins.				
MG-70	1	Term. Post Frame Ins.				
MH-28	1	Term. Post Connector				
MR-87	1	Terminal Post				
MN-47	1	3/8 Plain Steel Washer				
X-201	1	3/8 Lock Washer				
X-1064	1	3/8-16 Hex. Nut				

Comm. End Head Assembly & Parts Used With

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

Armature Assembly & Parts Used With

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

Switch Assembly & Parts Used With

MU-2208S	1	Starting Switch Assy.				
8X-832	1	5/16-24 Hex. Nut				
X-1014	1	5/16 Lock Washer				
X-196	4	#10 Lock Washer				
6X-321	4	#10-32x5/16 Rd. Hd. Screw				

Miscellaneous Parts

EB-31	1	Bendix Drive Assy.				
GX-1024	1	Head Band Assembly				
ML-2027A	1	Intermediate Brg. Assy.				
ML-21A	1	Absorbent Bronze Brg.				
PS-1076	1	Pinion Housing Assy.				
MAB-88	1	Dowel Pin				
MG-77A	1	Absorbent Bronze Brg.				
X-1010A	1	#8-32x1 1/4 Rd. Hd. Screw - Hardened				
6X-1410	1	#8-32 Square Nut				
		1	2	3	4	5

(Issued 3-11-35)
(R-3-24-37)

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4170 STARTING MOTOR PARTS LIST

ML-4170

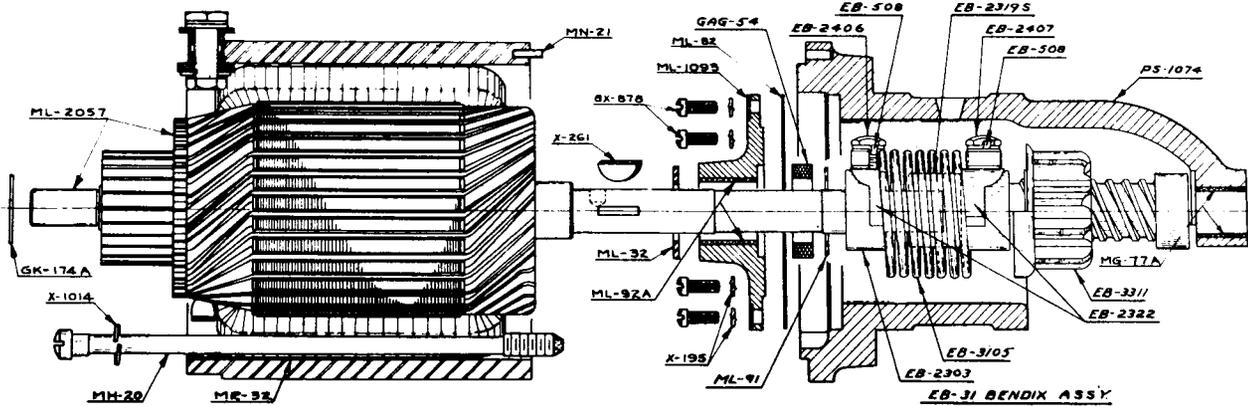
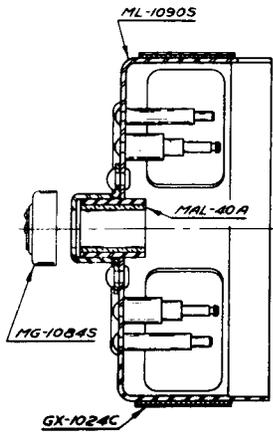
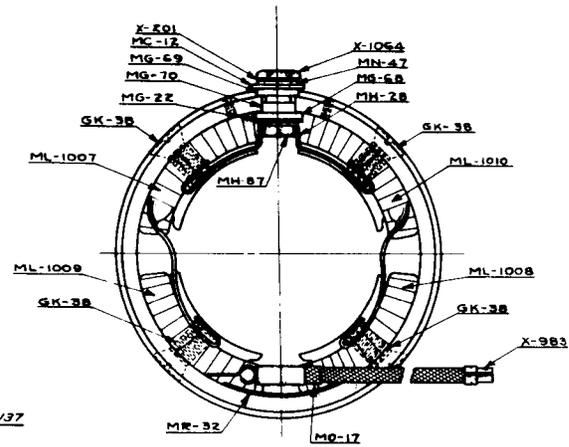
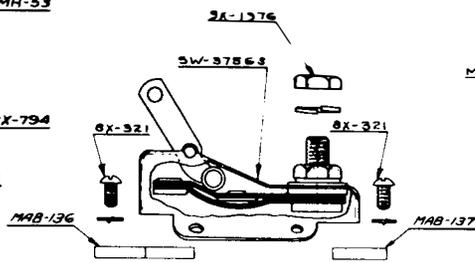
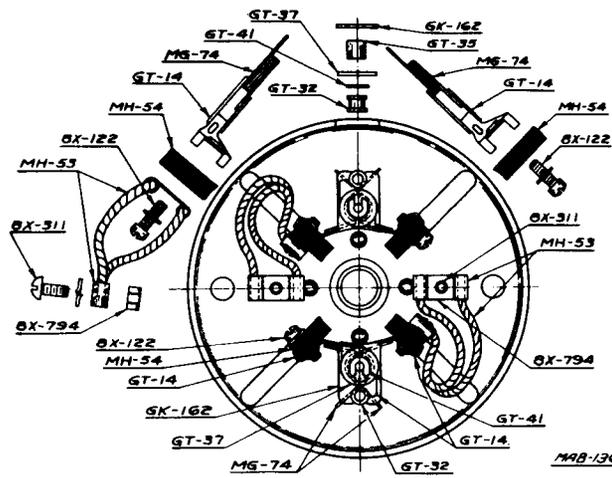
Frame & Field Assembly With Terminal Stud & Parts Used With			Comm. End Head Assembly (Continued)		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
MH-20	2	Bolt, Thru	X-196	2	Washer, Lock, Ground Sc., #10
(ML-1086)	1	Frame & Field Assy.	8X-311	2	Screw, Ground, Rd. Hd., #10-32x3/8
GK-38	4	Screw, Pole Shoe	8X-794	2	Nut, Ground Sc., Square, #10-32
MC-12	1	Washer, Ins., Term. Stud, Outer	Armature Assembly & Parts Used With		
MG-22	1	Washer, Plain, Term. Stud, Inner	GK-174A	1	Washer, Thrust, Arm. Shaft, C.E.
MG-68	1	Washer, Ins., Term. Stud, Inner	ML-32	1	Washer, Thrust, Int. Bearing
MG-69	1	Bushing, Ins., Term. Stud, Outer	ML-91	1	Retainer, Felt
MG-70	1	Bushing, Ins., Term. Stud, Inner	ML-2057	1	Armature
MH-28	1	Connector, Term. Stud to Coil	X-261	1	Key, Woodruff, #6
MH-87	1	Stud, Terminal, 3/8-16	Switch Assembly & Parts Used With		
ML-1007	1	Coil, Field, U.L.	MAB-136	1	Gasket, Switch
ML-1008	1	Coil, Field, L.R.	MAB-137	1	Gasket, Switch
ML-1009	1	Coil, Field, L.L.	SW-3756S	1	Switch, Starting
ML-1010	1	Coil, Field, U.R.	X-196	4	Washer, Lock, #10
MN-21	1	Pin, Dowel, Housing Locating	8X-321	4	Screw, Mtg. Switch, Rd. Hd. #10-32x5/16
MN-47	1	Washer, Plain, Term. Stud, Outer	X-1014	1	Washer, Lock, 5/16
MO-17	1	Lead Assy., Field Coil	5X-1376	1	Nut, Hex., 5/16-24
X-983	2	Terminal	Miscellaneous Parts		
MR-32	1	Insulation, Field Connection	EB-31	1	Bendix Drive Assy.
X-201	1	Washer, Lock, Term. Stud, 3/8	EB-508	2	Washer, Lock
X-1064	1	Nut, Term. Stud, Hex., 3/8-16	EB-2303	1	Head, Driving
X-1014	2	Washer, Lock, Thru Bolt, 5/16	EB-2319S	1	Sleeve, Compression
Comm. End Head Assembly & Parts Used With			EB-2322	2	Clip, Spring Support
MG-1084S	1	Cover, Bearing, Comm. End	EB-2406	1	Screw, Spring, Head
(ML-2090)	1	Head Assy., Comm. End	EB-2407	1	Screw, Spring, Shaft
GK-162	2	Insulation, Spacing, Brush Holder	EB-3105	1	Spring, Drive
GT-14	4	Holder, Brush	EB-3111	1	Shaft & Pinion
GT-32	2	Insulator, Spring	GAG-54	1	Washer, Felt
GT-35	2	Bushing, Insulating	GX-1024C	1	Band, Head
GT-37	2	Washer, Insulating	ML-82	1	Gasket, Intermediate Bearing
GT-41	2	Clip, Brush Post	ML-1093	1	Bearing Assy., Intermediate
MG-74	4	Spring, Brush	ML-92A	1	Bearing, Absorbent Bronze
MH-53	2	Connector, Ground	PS-1074	1	Housing Assy., Pinion
MH-54	4	Brush	MG-77A	1	Bearing, Absorbent Bronze
ML-1090S	1	Head Assy., Partial, Comm. End	X-195	4	Washer, Lock, Int. Bearing Sc., #8
MAL-40A	1	Bearing, Absorbent Bronze	X-715	1	Screw, Cover Band, Rd. Hd., #10-32x 1 1/4
8X-122	4	Screw, Brush, Fill. Hd., #8-32x1/2	8X-794	1	Nut, Cover Band, Square, #10-32
X-195	4	Washer, Lock, Brush Sc., #8	8X-878	4	Screw, Attaching, Int. Bearing, Fill. Hd., #8-32x7/16

(Issued 3-7-44)

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ML-4170 STARTING MOTOR ILLUSTRATION

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4172 STARTING MOTOR PARTS LIST

ML-4172

PRELIMINARY

Frame & Field Assembly & Parts Used With					Armature Assembly & Parts Used With								
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
MH-20	2	Frame Screw					GK-174A	1	1/2 Plain Washer				
(ML-2083A)	1	Frame & Field Assembly					MG-61	1	7/8 Plain Washer				
GK-38	4	Pole Piece Screw					ML-2037	1	ARMATURE ASSEMBLY				
MH-29	4	Pole Piece					X-261	1	#6 Woodruff Key				
ML-1007	1	Field Coil - U.L.					<u>Miscellaneous Parts</u>						
ML-1008	1	Field Coil - L.R.					GX-1024J	1	Head Band Assembly				
ML-1009	1	Field Coil - L.L.					MH-1034C	1	Intermediate Plate Assembly				
ML-1010	1	Field Coil - U.R.					MH-77	1	BRONZE GRAPHITE BRG.				
MN-21	1	Dowel Pin					X-489	1	1/4 Oiler - Press in Type				
MO-17	1	Field Coil Lead Assembly					EX-1010A	1	#8-32x1 1/4 Rd. Hd. Sc.- Hardened				
X-983	2	Terminal					EX-1410	1	#8-32 Square Nut				
MR-32	1	Field Coil Lead Ins.							1	2	3	4	5
12X-1014	2	5/16 Lock Washer					(Issued 10-9-41)						
Terminal Post Assembly & Parts Used With													
MH-3079B	1	Terminal Post Assembly											
MG-22	1	Plain Steel Washer											
MG-27	1	Terminal Post											
MG-68	2	Insulating Washer											
MG-69	1	Terminal Post Cover Ins.											
MG-70	1	Terminal Post Frame Ins.											
MH-28	1	Terminal Post Connector											
EX-179	2	3/8-16 Hex. Nut											
12X-201	2	3/8 Lock Washer											
Comm. End Head Assembly & Parts Used With													
MG-1084S	1	Bearing Cover with Oiler											
(ML-2090)	1	Comm. End Head Assembly											
GK-162	2	Br. Holder Spacing Ins.											
GT-14	4	Brush Holder											
GT-32	2	Spring Insulator											
GT-35	2	Insulating Bushing											
GT-37	2	Insulating Washer											
GT-41	2	Br. Holder Post Clip											
MG-74	4	Brush Spring											
MH-53	2	Ground Connector											
MH-54	4	BRUSH											
ML-1090S	1	C. E. Head Part Assembly											
ML-1040S	1	C.E. Cap & Brg. Assy.											
MAL-40A	1	Absorbent Bronze Bearing											
EX-1452	4	3/16x5/16 Oval Hd. Rivet											
EX-122	4	#8-32x1/2 Fill. Hd. Screw											
X-195	4	#8 Lock Washer											
X-196	2	#10 Lock Washer											
EX-311	2	#10-32x3/8 Rd. Hd. Screw											
EX-794	2	#10-32 Square Nut											
		1	2	3	4	5							

UNIT	APPLICATION
ML-4172	Auto Engine

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ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

ML-4173 STARTING MOTOR PARTS LIST

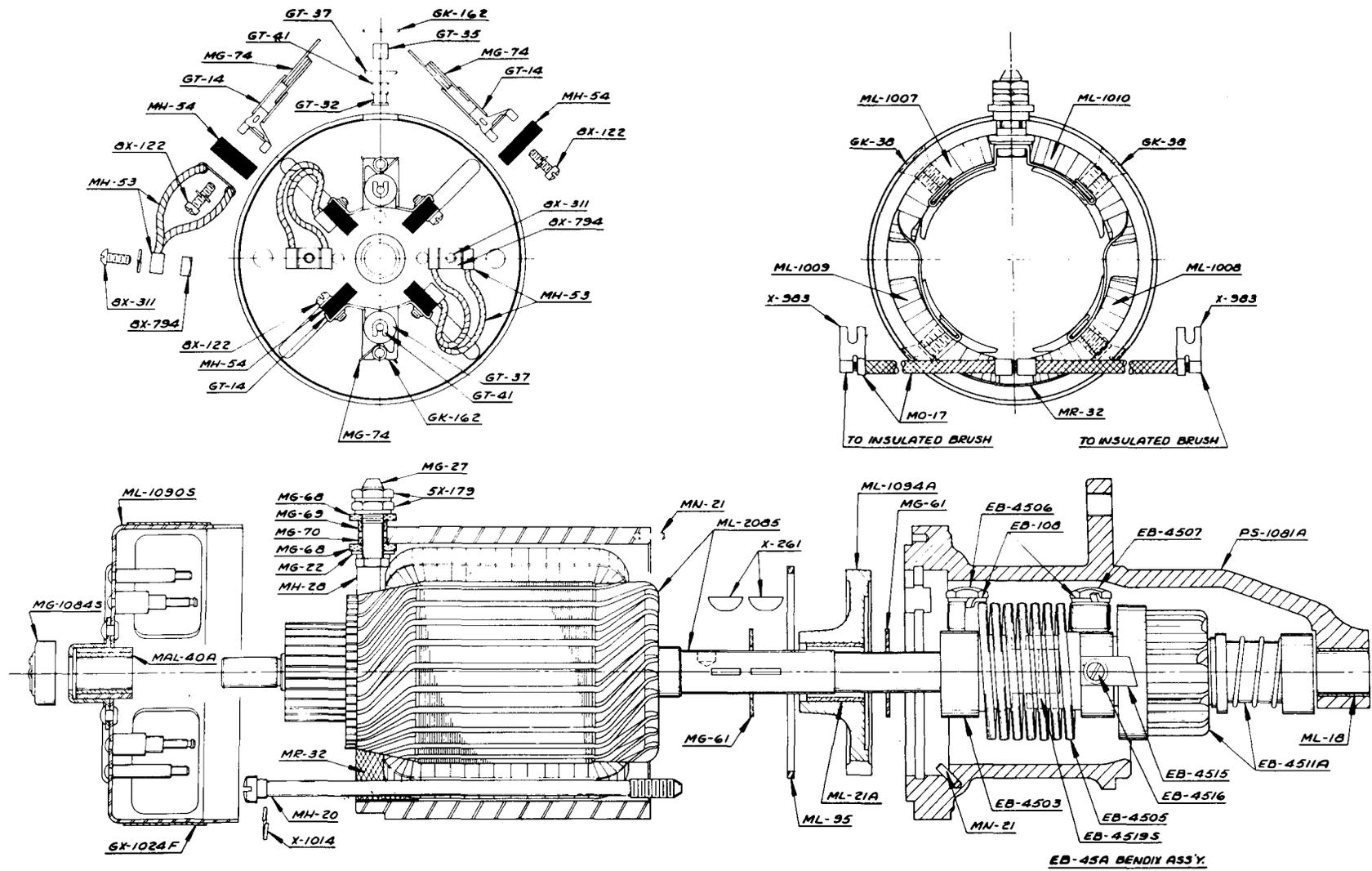
ML-4173

Frame & Field Assembly With Terminal Stud & Parts Used With				Armature Assembly & Parts Used With									
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
MH-20	2	Bolt, Thru					MG-61	2	Washer, Thrust, Arm. Shaft, Int.				
(ML-2025)	1	Frame & Field Assy.					ML-2085	1	Armature				
GK-38	4	Screw, Pole Shoe					X-261	2	Key, Woodruff, #6				
MG-22	1	Washer, Plain, Term. Stud, Inner					<u>Miscellaneous Parts</u>						
MG-27	1	Stud, Terminal, 3/8-16					EB-45A	1	Bendix Drive Assy.				
MG-68	2	Washer, Ins., Term. Stud					EB-108	2	Washer, Lock				
MG-69	1	Bushing, Ins., Term. Stud, Outer					EB-4503	1	Head, Driving				
MG-70	1	Bushing, Ins., Term. Stud, Inner					EB-4505	1	Spring, Drive				
MH-28	1	Connector, Term. Stud to Coil					EB-4506	1	Screw, Spring, Head				
ML-1007	1	Coil, Field, U.L.					EB-4507	1	Screw, Spring, Shaft				
ML-1008	1	Coil, Field, L.R.					EB-4511A	1	Shaft & Pinion				
ML-1009	1	Coil, Field, L.L.					EB-4515	1	Stop, Pinion				
ML-1010	1	Coil, Field, U.R.					EB-4516	1	Screw, Pinion Stop				
MN-21	1	Pin, Dowel, Housing Locating					EB-4519S	1	Sleeve, Compression				
MO-17	1	Lead Assy., Field Coil					GX-1024F	1	Band, Head				
X-983	2	Terminal					ML-95	1	Ring, Lock, Intermediate Brg.				
MR-32	1	Insulation, Field Connection					ML-1094A	1	Bearing Assy., Intermediate				
5X-179	2	Nut, Term. Stud, Hex., 3/8-16					ML-21A	1	Bearing, Absorbent Bronze				
X-201	2	Washer, Lock, Term. Stud, 3/8					PS-1081A	1	Housing Assy., Pinion				
X-1014	2	Washer, Lock, Thru Bolt, 5/16					ML-18	1	Bearing, Bronze Graphite				
<u>Comm. End Head Assembly & Parts Used With</u>						MN-21	1	Pin, Dowel					
MG-1084S	1	Cover, Bearing, Comm. End					X-715	1	Screw, Cover Band, Rd. hd., #10-32x1 1/4				
(ML-2090)	1	Head Assy., Comm. End					8X-794	1	Nut, Cover Band, Square, #10-32				
GK-162	2	Insulation, Spacing, Brush Holder							1	2	3	4	5
GT-14	4	Holder, Brush					(Issued 3-7-44)						
GT-32	2	Insulator, Spring											
GT-35	2	Bushing, Insulating											
GT-37	2	Washer, Insulating											
GT-41	2	Clip, Brush Post											
MG-74	4	Spring, Brush											
MH-53	2	Connector, Ground											
MH-54	4	Brush											
ML-1090S	1	Head Assy., Partial, Comm. End											
MAL-40A	1	Bearing, Absorbent Bronze											
8X-122	4	Screw, Brush, Fil. hd., #8-32x1/2											
X-195	4	Washer, Lock, Brush Sc., #8											
X-196	2	Washer, Lock, Grd. Sc., #10											
8X-311	2	Screw, Ground, Rd. hd., #10-32x3/8											
8X-794	2	Nut, Ground Sc., Square, #10-32											
		1	2	3	4	5							

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