VOLTAGE 12 ROTATION Reversible BRUSHES 4 POLES 4

VENTILATED Yes FRAME DIAMETER 6-5/8"

LUBRICATION No lubrication required on units that have sealed ball bearings. Open ball bearings should be packed 1/4 to 1/2 full with a medium grade ball bearing lubricant.

FIELD RESISTANCE (77°F) Series Coils .0062 to .0070 ohms. Measure between terminals S-1 and S-2.

ARMATURE TEST These armatures have equalizer connections on the commutator and cannot be tested on a growler for shorted windings. Test to light load specification.

COMMUTATOR Minimum diameter 2.875". Replace armature when commutator has worn to this dimension.

BRUSH REPLACEMENT Replace brushes when they have worn to a length of 9/16" or less.

SPRING TENSION 30 to 36 ounces with new brushes. Measure with a spring scale hooked under the brush spring at the brush. Pull the scale on a line opposite the line of force exerted by the brush spring and take the reading just as the spring leaves the brush.

TEST CONNECTIONS (See tabulation for test connection number)

TEST #1

CWDE Rotation	CCWDE Rotation
Connect F1 or S1 to battery positive	Connect F1 or S1 to battery positive
Connect F2 or S2 to A1	Connect F2 or S2 to A2
Connect A2 to battery negative	Connect A1 to battery negative

TEST #2

CWDE Rotation	CCWDE Rotation
Connect F2 or S2 to battery positive	Connect F2 or S2 to battery positive
Connect F1 or S1 or A1	Connect F1 or S1 to A2
Connect A2 to battery negative	Connect A1 to battery negative

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TEST SPECIFICATIONS (77°F.) Test in both directions of rotation.

	Terminal Voltage	Maximum Amperes	RPM	Torque Ft. Lbs.
No Load Test	6	26	1600 Min.	0
Light Load Test	10.68	70	1590-1770	2

Unit	Test Connection	Internal Wiring
MCP-4001	#1	Figure 1
MCP-4003	#1	Figure 1
MCP-4004	#2	Figure 2
MCP-4005,AS	#2	Figure 2
MCP-4006	#1	Figure 1
MCP-4007,A	#2	Figure 2
MCP-4008	#2	Figure 2
MCP-4009,A	#2	Figure 2
MCP-4010	#1	Figure 1
MCP-4011,A	#2	Figure 2
MCP-4012	#1	Figure 1
MCP-4013,A	#2	Figure 2
MCP-4014,A	#1	Figure 1
MCP-4015	#1	Figure 1
MCP-4016	#1	Figure 1
MCP-4017,A	#1	Figure 1
MCP-4018	#1	Figure 1
MCP-4019	#1	Figure 1
MCP-4021,A	#1	Figure 1
MCP-4023	#1	Figure 1
MCP-4024	#1	Figure 1
MCP-4025	#1	Figure 1
MCP-4026	#1	Figure 1
MCP-4027	#1	Figure 1
MCP-4028	#1	Figure 1
MCP-4030	#1	Figure 1
MCP-4031	#1	Figure 1

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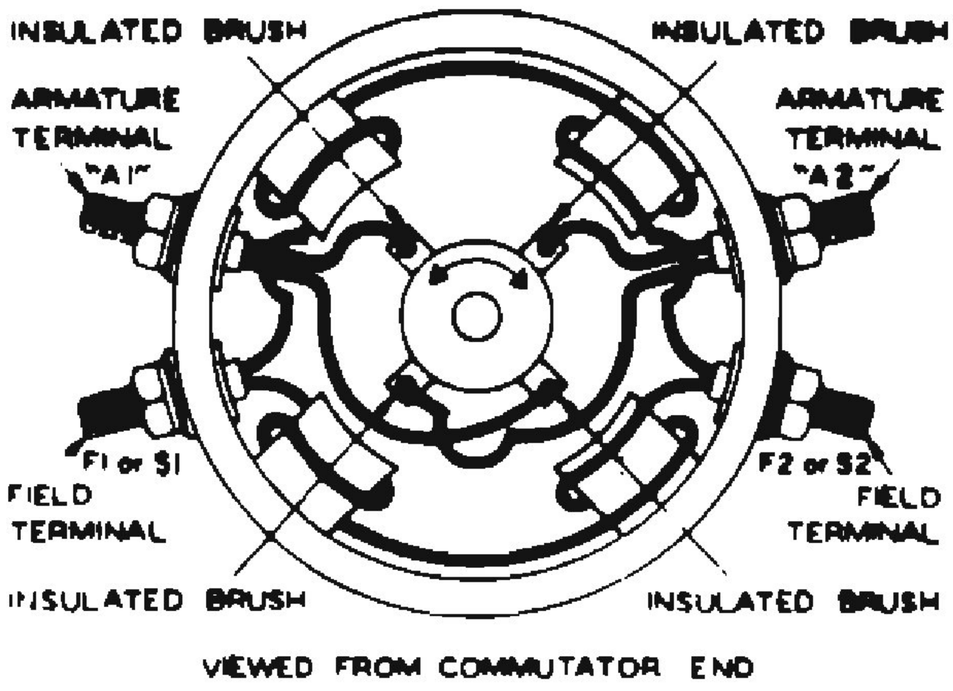


Figure 1

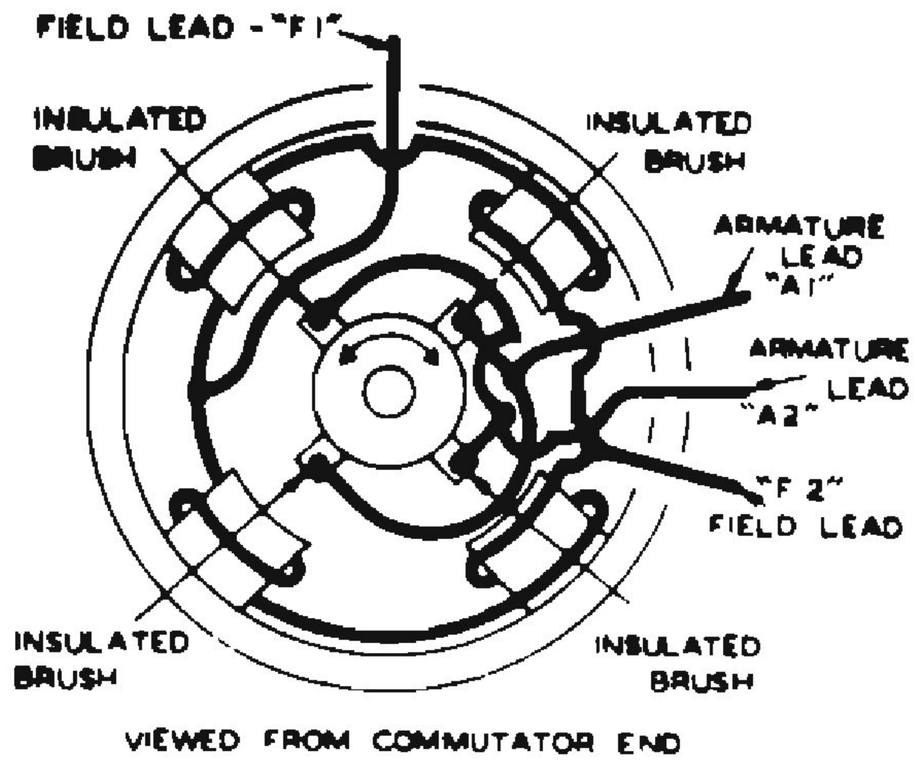


Figure 2

Internal Wiring

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Traction Motor Section