VOLTAGE 24 ROTATION Reversible BRUSHES 4 POLES 4

VENTILATED No FRAME DIAMETER 4-1/2"

BEARINGS — Absorbent bronze bearing used at commutator end. MMD-4402 is not supplied with drive end. All others use absorbent bronze bearings at drive end. See Note.

LUBRICATION — Soak absorbent bronze bearing and felt oiling pad with SAE 20 oil. Allow excess oil to drain out before assembling end heads on motor.

BRUSH REPLACEMENT — The brushes must be replaced when they have worn to a length of See Tabulation or less.

SPRING TENSION — 32 to 40 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.

POLE SHOE INSTALLATION — When replacing field coils, install the pole shoes so that the shorter edge is in a counter clockwise direction when viewed from the comm end.

END PLAY — Adjust to .005 minimum with thrust washers at C.E. bearing. Refer to Parts and Equipment List for thrust washer package.

TEST CONNECTIONS

CWDE ROTATION	CCWDE ROTATION
Connect F-1 to battery positive	Connect F-2 to battery positive
Connect F-2 to A	Connect F-1 to A
Connect battery negative to motor frame	Connect battery negative to motor frame

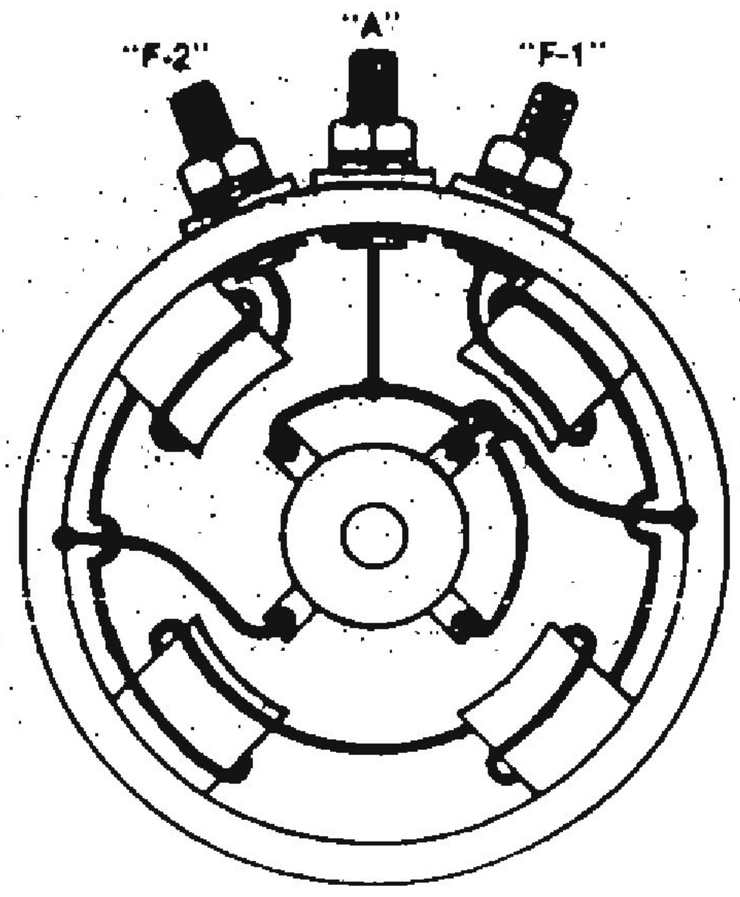
TEST SPECIFICATIONS ($77^{\circ}F/25^{\circ}C$) Test in both directions of rotation.

	Terminal Voltage	Maximum Amperes	RPM	Torque Ft.-Lbs.
No Load Test	20	30	6500	- 0 -
Stall Torque Test	8	210	- 0 -	10.0

prestolite.
SERVICE
INFORMATION

Unit	Brush Replacement	Special Instructions
MMD-4001	Replace at 1/4" or less	See Note
MMD-4401	Replace at 5/16" or less	See Note
MMD-4402	Replace at 5/16" or less	See Note

Note - The drive end head bearing must be flush with outside edge of hub.



VIEWED FROM COMMUTATOR END