prestolite SERVICE MANUAL

TRACTION MOTOR SECTION

(Issued 3-16-78)

VOLTAGE 12 ROTATION Reversible BRUSHES 8 POLES 4

VENTILATED See Tabulation FRAME DIAMETER 6 1/2"

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 .0019 to .0021 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 2.75". 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

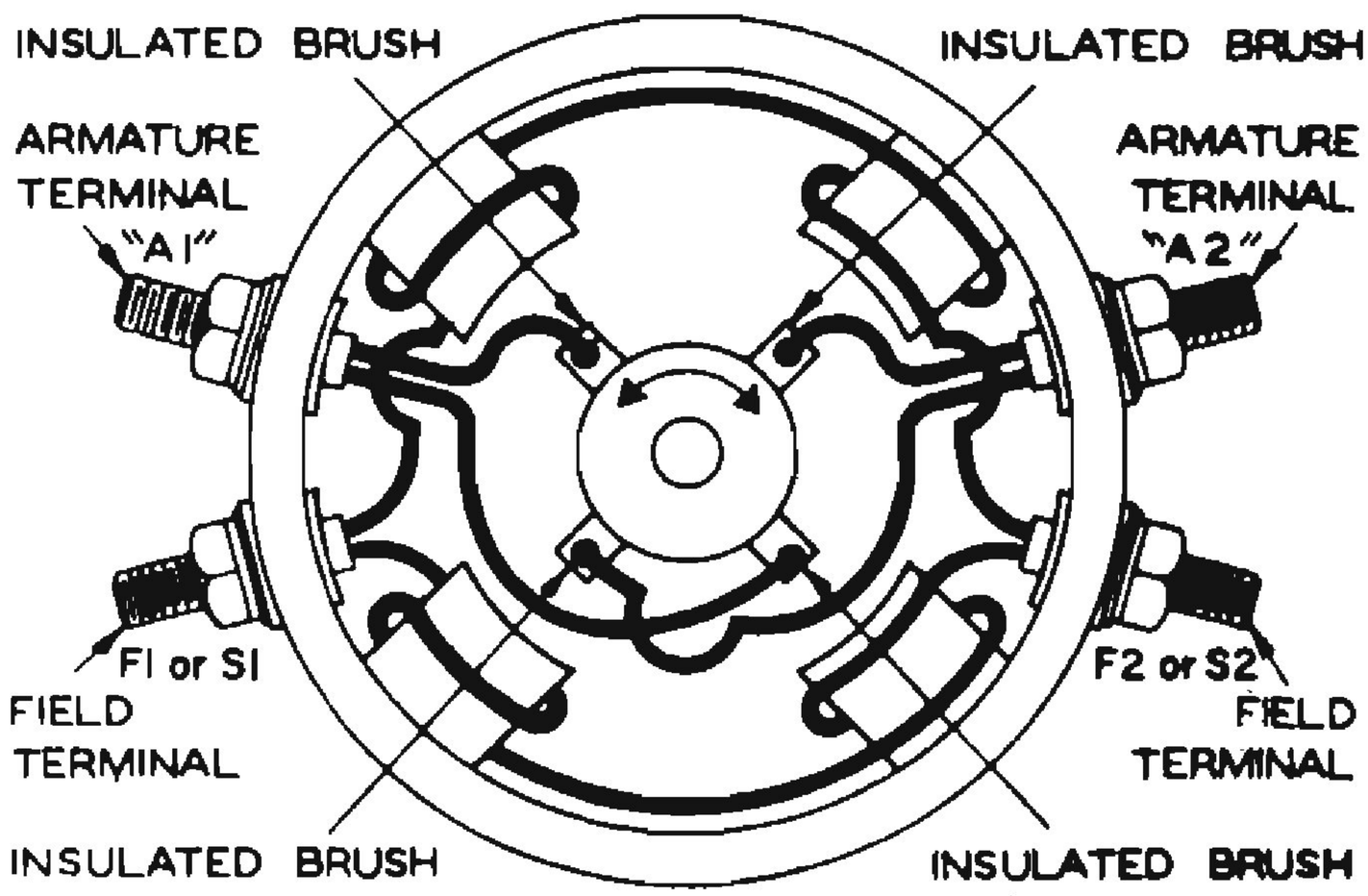
CWDE Rotation	CCWDE Rotation
Connect F-1 or S-1 to battery positive	Connect F-1 or S-1 to battery positive
Connect F-2 or S-2 to A-1	Connect F-2 or S-2 to A-2
Connect A-2 to battery negative	Connect A-1 to battery negative

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

	Terminal Voltage	Maximum Amperes	RPM	Torque Ft. Lbs.
No Load Test	6	63	2740 Min.	0
Light Load Test	11	132	2800-3110	2

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Unit	Ventilated
MDV-4001, A	Yes
MDV-4002	Yes
MDV-4003	Yes
MDV-4004, A	Yes
MDV-4005	Yes
MDV-4006, A	Yes
MDV-4006B	No
MDV-4007	Yes
MDV-4008	Yes



Internal Wiring Diagram

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