prestolite SERVICE MANUAL

TRACTION MOTOR SECTION

(Issued 3-16-78)

VOLTAGE 12 ROTATION Reversible BRUSHES 4 POLES 4

VENTILATED Yes FRAME DIAMETER 6 1/2"

LUBRICATION None required. Sealed ball bearings used at both ends of motor.

FIELD RESISTANCE (77°F.) Series Coils .0064 to .0072 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.

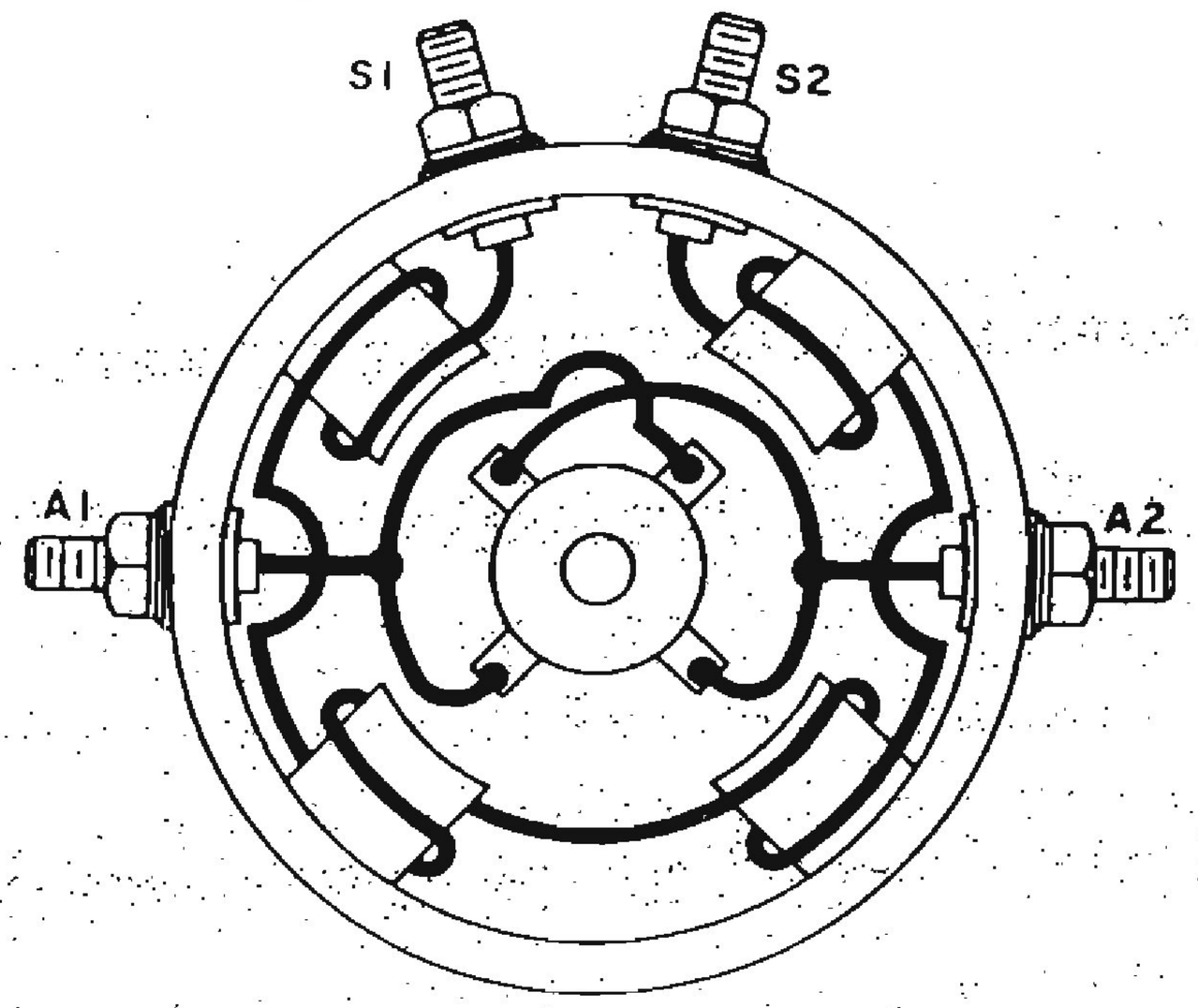
TEST CONNECTIONS

CWDE Rotation	CCWDE Rotation
Connect A-1 to battery positive	Connect A-1 to battery positive
Connect A-2 to S-2	Connect A-2 to S-1
Connect S-1 to battery negative	Connect S-2 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	37	2370 Min.	0
Light Load Test	10.3	85	1660-1840	2

Unit
MGY-4001



VIEWED FROM COMMUTATOR END

Internal Wiring Diagram