prestolite SERVICE MANUAL

TRACTION MOTOR SECTION

(Issued 3-16-78)

VOLTAGE 36 ROTATION Reversible BRUSHES 4 POLES 4

VENTILATED No FRAME DIAMETER 6 1/2"

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

FIELD RESISTANCE (77°F.) — Series Coils .0031 to .0036 ohms. Measure between terminals S-1 and S-3 or S-2 and S-4.

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

HIGH SPEED

CWDE Rotation

Connect A-2 to battery positive
Connect A-1, S-1 and S-4 together
Connect S-2 and S-3 to battery negative

CCWDE Rotation

Connect A-2 to battery positive
Connect A-1, S-2 and S-3 together
Connect S-1 and S-4 to battery negative

LOW SPEED

CWDE Rotation

Connect A-2 to battery positive
Connect A-1 to S-1
Connect S-3 to S-4
Connect S-2 to battery negative

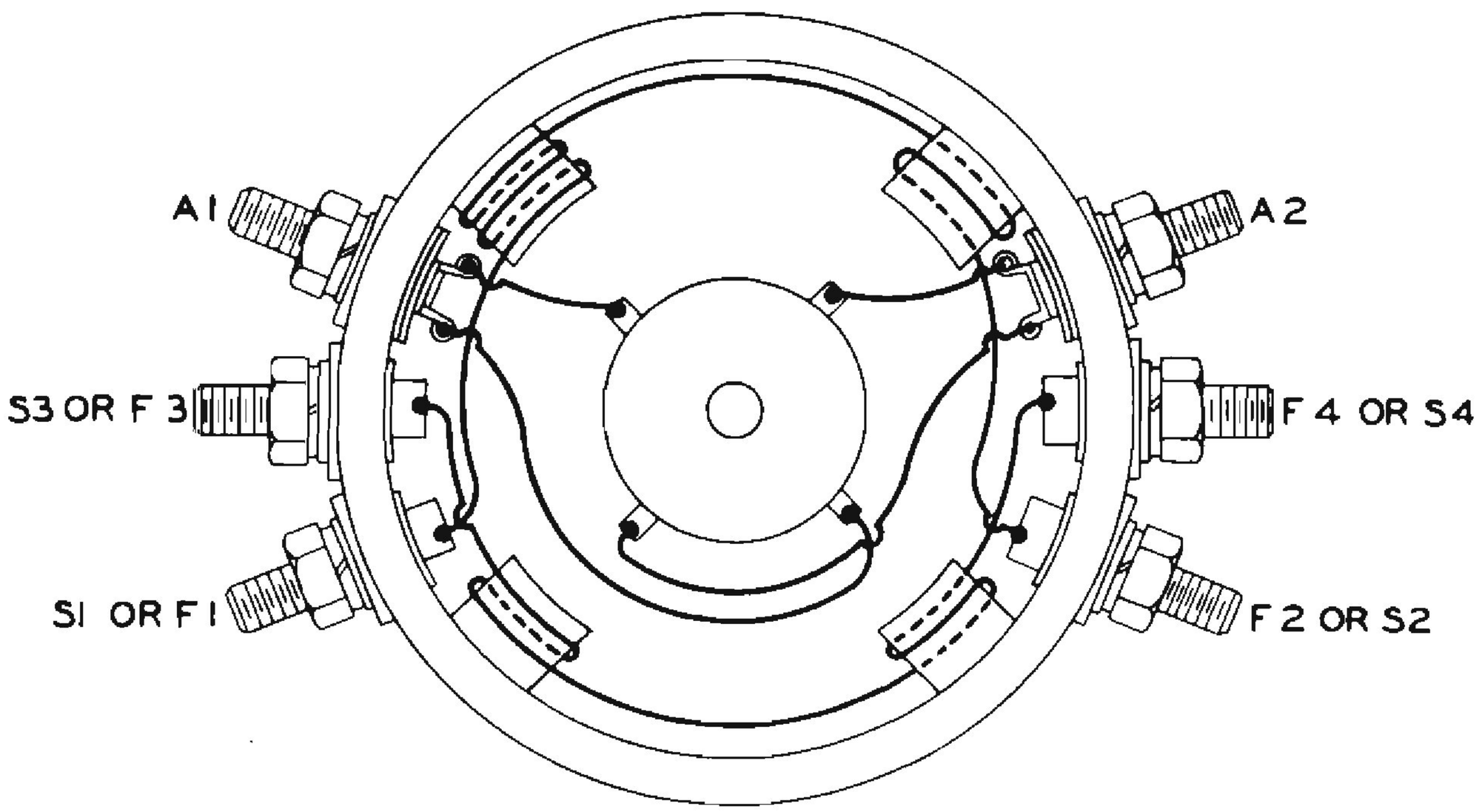
CCWDE Rotation

Connect A-2 to battery positive
Connect A-1 to S-2
Connect S-3 to S-4
Connect S-1 to battery negative

TEST SPECIFICATIONS (77°F.) Test in both directions of rotation.
USE LOW SPEED TEST CONNECTIONS

	Terminal Voltage	Maximum Amperes	RPM	Torque Ft. Lbs.
No Load Test	12	17	2410 Min.	0
Light Load Test	35.10	63	2310-2560	5

Unit
MGZ-4001



Internal Wiring Diagram