prestolite SERVICE MANUAL

WINDSHIELD WIPER MOTOR SECTION

(Issued 3-16-78

VOLTS	12	BRUSHES	2	POLES	2

ROTATION — Motor rotates clockwise at drive end. Crank shaft rotates counterclockwise. Reverse rotations to park.

BEARINGS — Absorbent bronze.

LUBRICATION — At overhaul, saturate the felt oiling pads around the armature shaft bearings with SAE 20 oil. Drain off excess oil. Apply a thin film of grease to the crank arm shaft before assembly. Fill gear chamber 3/4 full with a good grade gear grease.

END PLAY — .008" maximum. Adjust by turning adjusting screw in or out as required. Replace the adjusting screw if the nylon lock becomes worn so that it will not hold the setting.

FIELD COIL DRAW — (70°F.) 1.8 to 2.0 amperes at 12.0 volts. (Shunt field only)

NO LOAD DRAW — (70°F.) 3.3 maximum amperes at 12.0 volts. (Low speed operation)

TEST CONNECTIONS

LOW SPEED
Connect battery positive to black or brown lead and red lead. Connect battery negative to yellow or dark green lead and motor frame. Blue lead, no connection.

HIGH SPEED
Same connections as low speed except add a 25 ohm resistor between the black or brown lead and red lead.

PARK
Connect battery positive to blue lead. Connect black or brown lead to yellow or dark green lead. Connect battery negative to red lead and motor frame.

PARKING ADJUSTMENT — Have motor cold and test with a load on the crank shaft. Adjust to parking angle shown in tabulation by turning the switch plate. Final adjustment should be made after installation using a wet windshield.

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Unit	Parking Angle
ETG-4001	A
ETG-4002A, B, C	B
ETG-4101	B

PARKING ANGLE

A. The flat surfaces of the crank arm shaft should be at a 15° ± 5° angle to the motor centerline before passing a line parallel to the motor centerline.

B. The flat surfaces of the crank arm shaft should be at a 18° ± 5° angle to the motor centerline before passing a line parallel to the motor centerline.

