FILE IN THE

prestolite SERVICE MANUAL

EPT

WINDSHIELD WIPER MOTOR SECTION

(Issued 3-16-78)

VOLTS 12 BRUSHES 2 POLES 2

ROTATION Motor rotates clockwise at drive end. Crank arm rotates counterclockwise.

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 assembling. Fill gear chamber 3/4 full with a good grade gear grease.

END PLAY .003" to .012". Refer to tabulation for adjusting procedure.

FIELD COIL DRAW (70°F.) 1.8 to 1.9 amperes at 12.0 volts. (Shunt winding only)

NO LOAD DRAW (70°F.) 3.1 maximum amperes at 12.0 volts. (Low speed operation)

TEST CONNECTIONS

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

HIGH SPEED
(EPT-4005 only) Same connections as low speed, except add a 17 ohm resistor between the black lead and red lead.

(All others) Connect battery positive to black lead. Connect battery negative to motor frame. Blue or green lead and red lead, no connection.

PARK
Connect battery positive to blue or green lead. Connect black lead to red lead. Connect battery negative to motor frame.

PARKING SWITCH Contacts should have a pressure of 16 to 24 ounces when pressed to 1/2" from switch plate.

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

Unit	End Play Adjustment	Parking Angle	Internal Wiring
EPT-4002,S	Note 1	A	Fig. 1
EPT-4003,B	Note 2	B	Fig. 1
EPT-4003A,C	Note 2	C	Fig. 1
EPT-4004	Note 2	D	Fig. 1
EPT-4005	Note 2	E	Fig. 2
EPT-4008,A	Note 2	D	Fig. 1
EPT-4010	Note 2	B	Fig. 1
EPT-4012	Note 2	F	Fig. 1
EPT-4013	Note 2	D	Fig. 1
EPT-4014	Note 2	B	Fig. 1
EPT-4016	Note 2	G	Fig. 1
EPT-4017	Note 2	F	Fig. 1
EPT-5007	Note 2	H	Fig. 1
EPT-5007A	Note 2	J	Fig. 1

END PLAY ADJUSTMENT

NOTE 1 - End play is adjusted by adding or removing thrust washers between the two bakelite thrust washers on the drive end of the armature shaft. Refer to Parts & Equipment List for thrust washer package.

NOTE 2 - End play is adjusted by turning the adjusting screw in or out as required Make sure the nylon washer is in between the adjusting screw and the end of the armature shaft. Replace the adjusting screw if nylon lock becomes worn so that it will not hold the setting.

PARKING ANGLE

A. Crank arm should be pointing inward 6° ± 5° after passing a line parallel to the motor centerline.

B. Crank arm should be pointing outward 5° ± 5° before passing a line parallel to the motor centerline.

C. Crank arm should be pointing outward 5° ± 5° after passing a line parallel to the motor centerline.

D. Motor should park with center of "H" block 2° ± 5° past a line perpendicular to the motor centerline.

E. Crank arm should be pointing outward 7° ± 5° after passing a line parallel to the motor centerline.

F. Motor should park with the centerline of the crank arm 55° ± 5° past a line parallel to the motor centerline.

G. Motor should park with center of "H" block 2° ± 5° past a line parallel to the motor centerline.

H. Crank arm should be pointing inward 19° ± 5° after passing a line perpendicular to the motor centerline.

J. Crank arm should be pointing inward 19° ± 5° before passing a line perpendicular to the motor centerline.

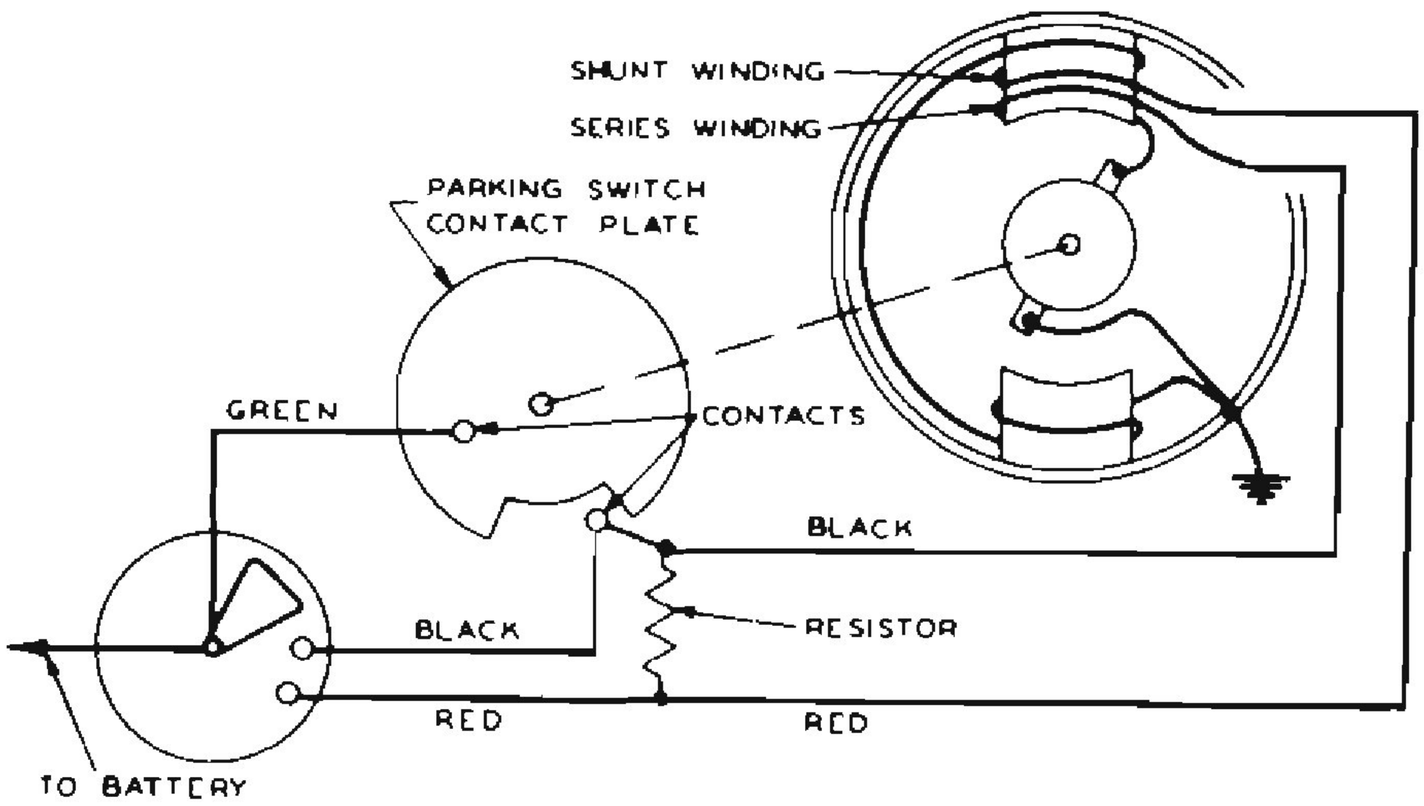

Figure 1.

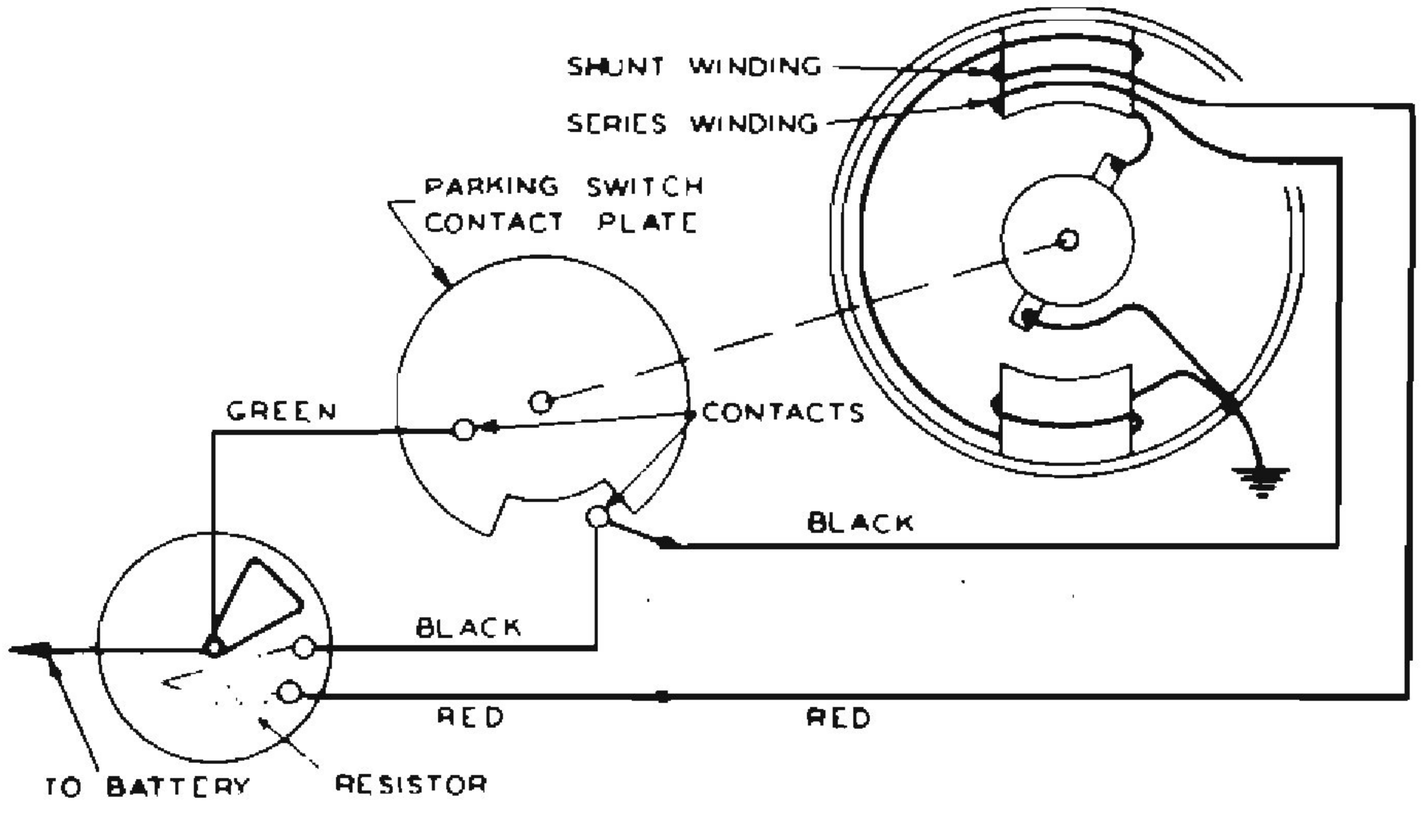

Figure 2.