

If excessive force is required to install servomotor, check length of blend-air door shaft. The shaft should extend less than 1 inch (25 mm) above the A/C-Heater unit cover. Repair shaft if necessary. Excessive installation force can damage servomotor.

(3) With blend-air and servomotor shafts engaged, rotate the motor until the tab fits under the retaining clip and the attaching screw holes align.

(4) Install attaching screw and wiring harness.

(5) Install sound pad.

(6) Check operation of assembly and install air distribution duct or instrument panel components.

### Electronic Servomotor—Testing (Figs. 8, 9, and 10)

(1) Remove servomotor as described under removal. Using a blend-air door operating crank from a manual Heater-A/C unit, check the door for free movement.

(2) Set up the tests as shown in Figs. 8 and 9 and check motor operation in both directions. A fully charged 12 volt battery, two test leads and an ambient sensor are required. The positive lead should have a series-connected instrument panel lamp to indicate current flow. The negative lead is plain wire.

(3) When test leads are connected, the motor should run smoothly as it slowly moves to the internal stops. The test lamp glows dimly as the shaft turns and brightens when the stops are reached. The lamp also glows brightly if the motor for jams between the stops.

(4) If the motor shaft does not move, check the battery condition and make sure all connections are secure. The test lamp must be the correct type. Check the ambient sensor if the motor moves only to the counterclockwise position. The motor must move to full clockwise and full counterclockwise positions, as shown in Fig. 10, to be acceptable.

Fig. 8—Connections for Clockwise Servomotor Shaft Rotation

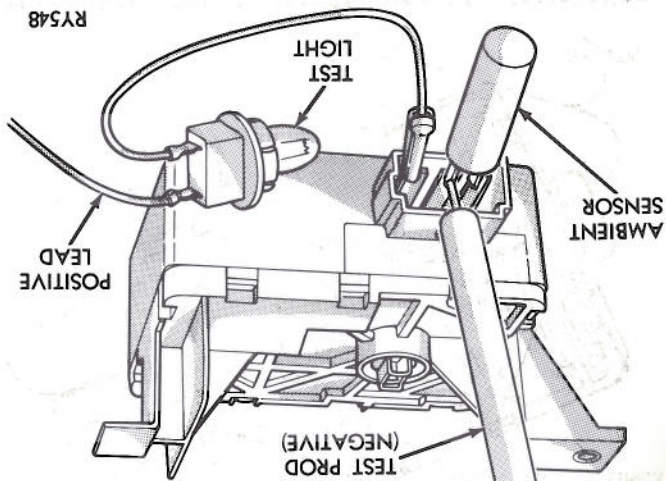
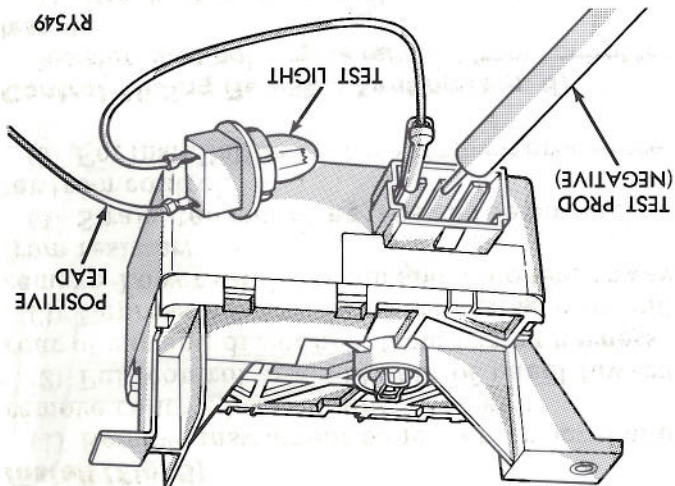


Fig. 9—Connections for Counter-Clockwise Servomotor Shaft Rotation



### In-Car Sensor—Remove and Install

- (1) Remove glove box.
- (2) Disconnect in-car sensor assembly from instrument panel by pulling and slowly rotating the sensor assembly plastic housing to unsnap it from the panel. DO NOT pull the tube to remove the sensor (Fig. 11 and 12).
- (3) Disconnect in-car sensor assembly from the aspirator tube.
- (4) Separate sensor wiring connector from harness connector and remove sensor.
- (5) For installation, reverse removal procedure.

### In-Car Sensor—Testing

- (1) Remove glove box.
- (2) Separate in-car sensor wiring connector from harness connector. Do not disconnect aspirator tubes or remove sensor from instrument panel.
- (3) Perform aspiration "Paper Test". Refer to Group D—"Aspirator System Diagnosis."
- (4) Place entire stem of a test thermometer (C-3623) into the air inlet grille near the in-car sensor.
- (5) Set blower speed on M2, depress and then pull out Max A/C button to turn off compressor and close water valve.

Fig. 10—Servomotor Shaft Full Travel Positions

