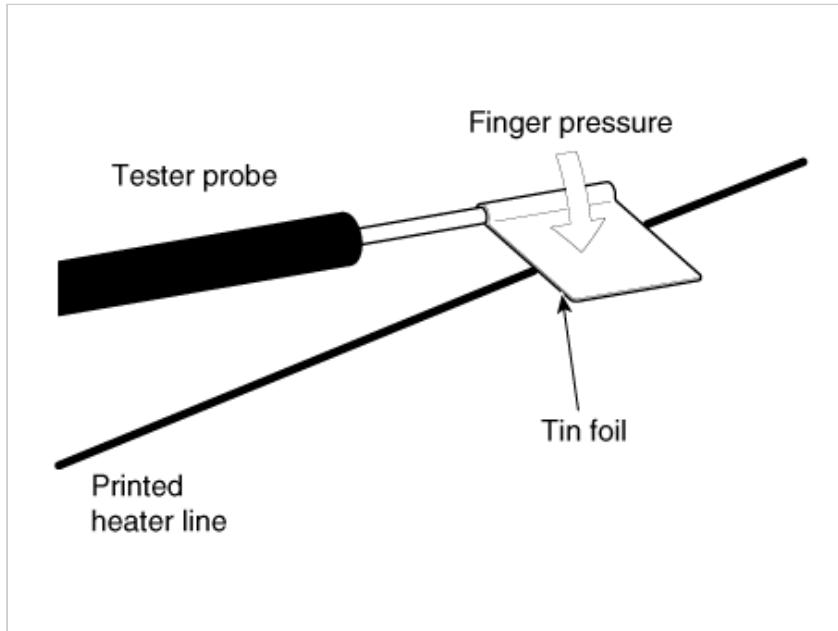




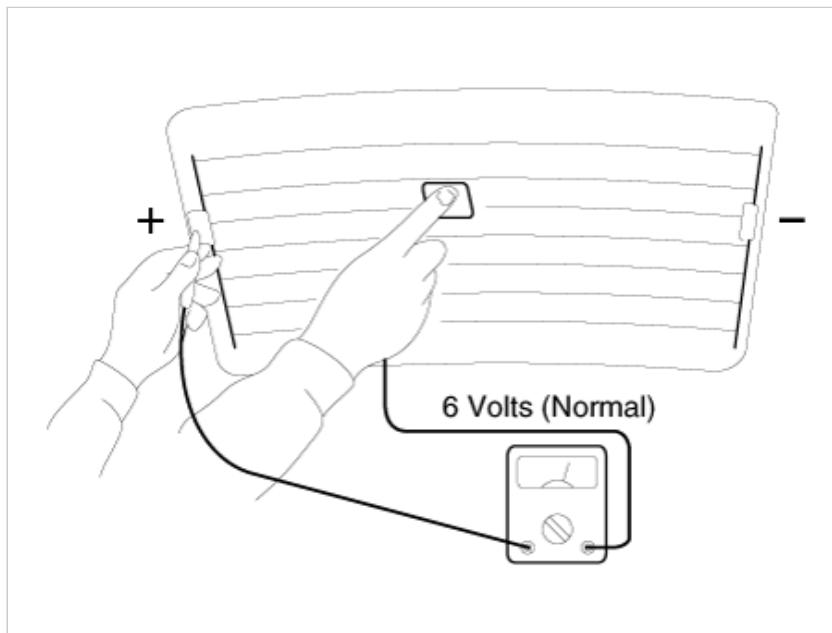
Inspection

▲ CAUTION

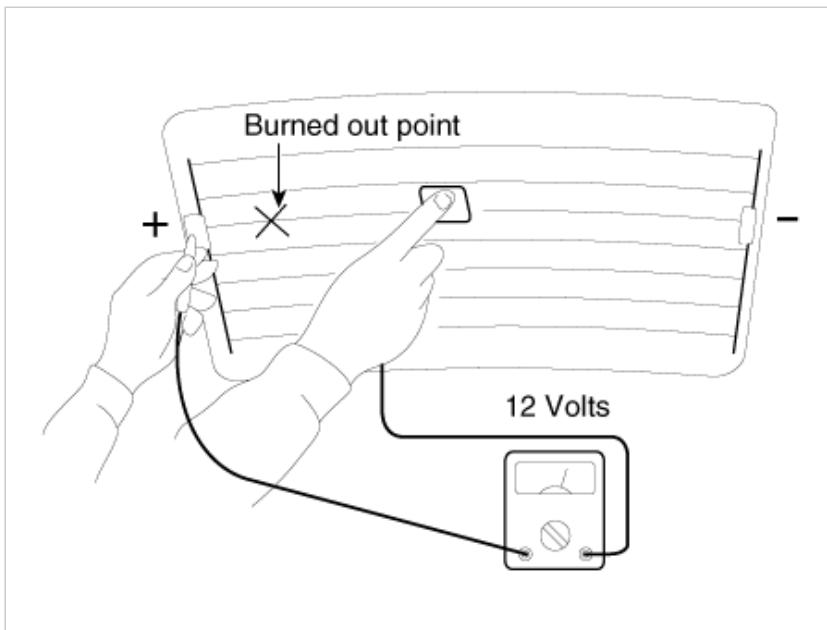
- Wrap tin foil around the end of the voltmeter test lead to prevent damaging the heater line. Apply pressure on the tin foil with hand and move the tin foil along the grid line to check for open circuits.



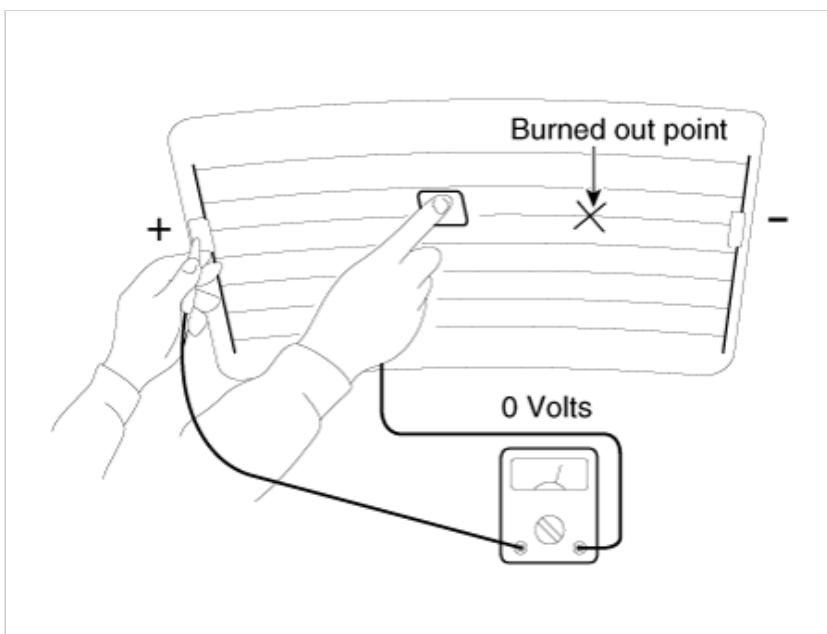
- Turn on the defogger switch and use a voltmeter to measure the voltage of each heater line in the central part of the glass. If the voltmeter indicates 6V for a conductive line, the line of the rear window is considered to be in good condition.



- If a conductive line is burned out within the area between the central part and (+) terminal, the voltmeter will indicate 12V.

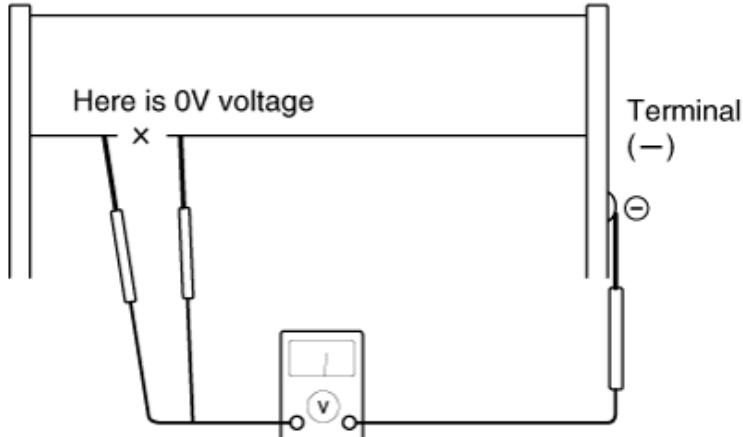


3. If a conductive line is burned out within the area between the central part and (-) terminal, the voltmeter will indicate 0V.



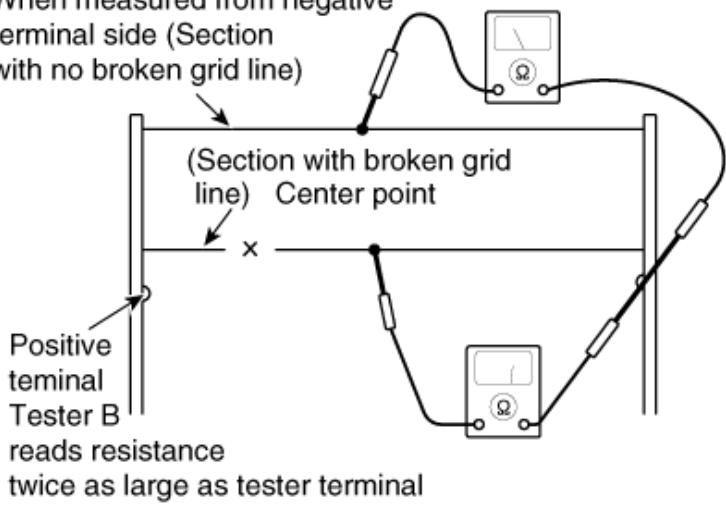
4. To check for open circuits, Slowly move the test lead toward the section where open circuits seem to exist. Try to find a point where the voltage turns to 0V. The point where the voltage has changed is the open-circuit point.

Voltage changes before and after open circuited point



5. Use an ohmmeter to measure the resistance of each heater line between a terminal and the center of a grid line, and between the same terminal and the center of one adjacent heater line. The section with a broken heater line will have a resistance twice that in other sections. In the affected section, move the test lead to a position where the resistance sharply changes.

When measured from negative terminal side (Section with no broken grid line)



Positive terminal
Tester B
reads resistance
twice as large as tester terminal

Repair Of Broken Heater Line

Prepare the following items :

1. Conductive paint.
2. Paint thinner.
3. Masking tape.
4. Silicone remover.
5. Using a thin brush :

Wipe the glass adjacent to the broken heater line, clean with silicone remover and attach the masking tape as shown. Shake the conductive paint container well, and apply three coats with a brush at intervals of about 15 minutes apart. Remove the tape and allow sufficient time for drying before applying power. For a better finish, scrape away excess paint with a knife after the paint has completely dried. (Allow 24 hours).

