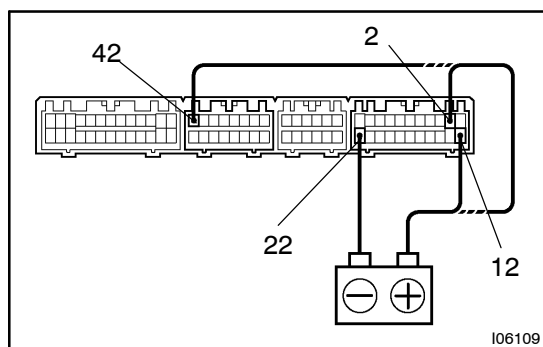


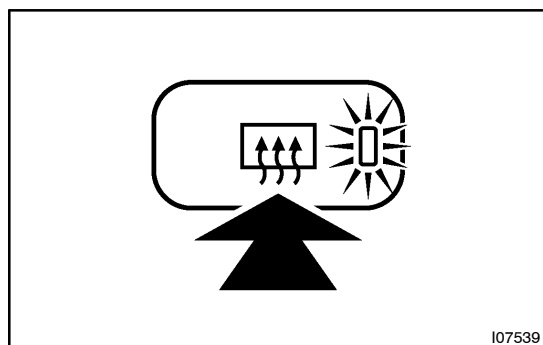


## INSPECTION

### 1. INSPECT DEFOGGER TIMER OPERATION

- Connect the positive (+) lead from the voltmeter to terminal 2, 12 and 42 of panel switch connector and negative (-) lead to terminal 22.
- When the switch is OFF, the voltage should be approx. 12V.
- Turn the defogger switch ON and check that the indicator lights up and that the voltage is less than 1 V.
- After 15 minutes, check that the switch is OFF and the voltage is approx. 12 V.

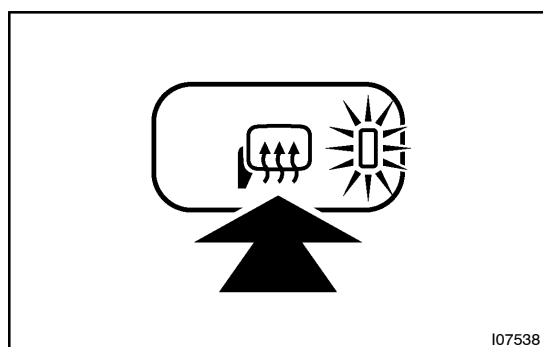
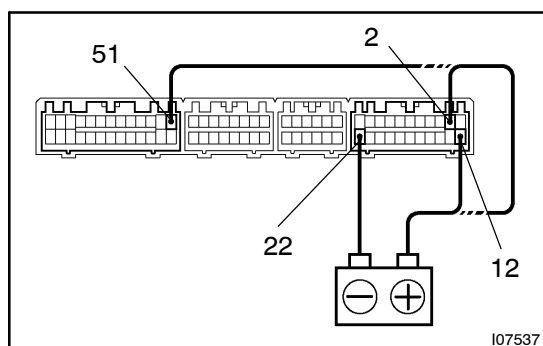
If operation is not as specified, replace the switch.



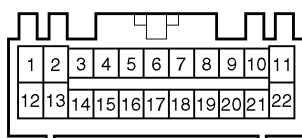
### 2. INSPECT MIRROR HEATER TIMER OPERATION

- Connect the positive (+) lead from the voltmeter to terminal 2, 12 and 51 of mirror heater switch connector and negative (-) lead to terminal 22.
- When the switch is OFF, the voltage should be approx. 12V.
- Turn the mirror heater switch ON and check that the indicator lights up and that the voltage is less than 1 V.
- After 15 minutes, check that the switch is OFF and the voltage is approx. 12 V.

If operation is not as specified, replace the switch.



### Wire Harness Side

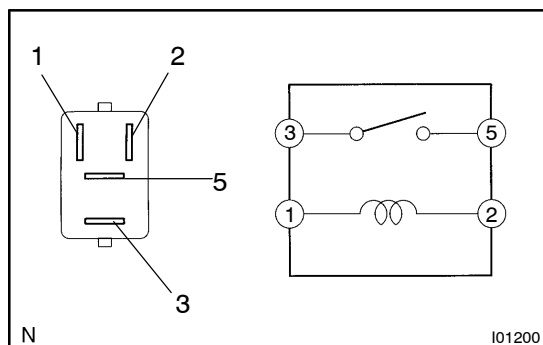


### 3. Connector disconnected: INSPECT DEFOGGER SWITCH (in INTEGRATION CONTROL PANEL SWITCH) CIRCUIT

Disconnect the connector from the panel switch and inspect the connector on wire harness side, as shown in the chart.

| Tester connection | Condition                   | Specified condition |
|-------------------|-----------------------------|---------------------|
| 22 - Ground       | Constant                    | Continuity          |
| 12 - Ground       | Constant                    | Battery voltage     |
| 1 - Ground        | Ignition switch LOCK or ACC | No voltage          |
| 1 - Ground        | Ignition switch ON          | Battery voltage     |
| 2 - Ground        | Ignition switch LOCK        | No voltage          |
| 2 - Ground        | Ignition switch ACC or ON   | Battery voltage     |

If the circuit is not as specified, replace the switch.

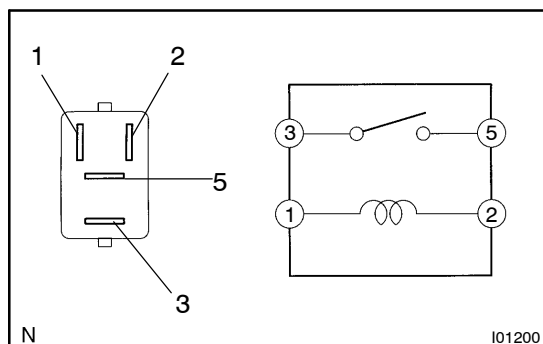


#### 4. INSPECT DEFOGGER RELAY CONTINUITY

| Condition                           | Tester connection | Specified condition |
|-------------------------------------|-------------------|---------------------|
| Constant                            | 1 - 2             | Continuity          |
| Apply B+ between terminals 1 and 2. | 3 - 5             | Continuity          |

If continuity is not as specified, replace the relay.

#### 5. INSPECT DEFOGGER RELAY CIRCUIT (See page BE-17)

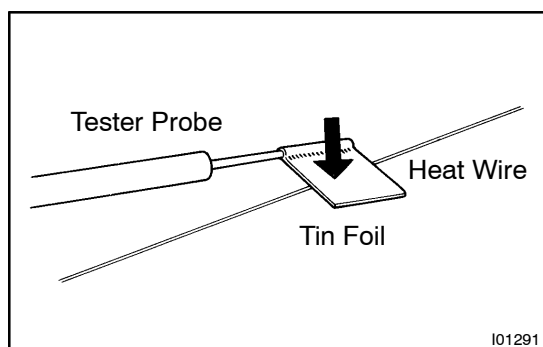


#### 6. INSPECT MIRROR HEATER RELAY CONTINUITY

| Condition                           | Tester connection | Specified condition |
|-------------------------------------|-------------------|---------------------|
| Constant                            | 1 - 2             | Continuity          |
| Apply B+ between terminals 1 and 2. | 3 - 5             | Continuity          |

If continuity is not as specified, replace the relay.

#### 7. INSPECT MIRROR HEATER RELAY CIRCUIT (See page BE-17)

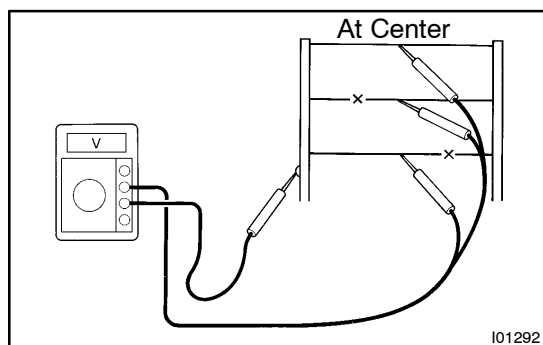


#### 8. INSPECT DEFOGGER WIRE

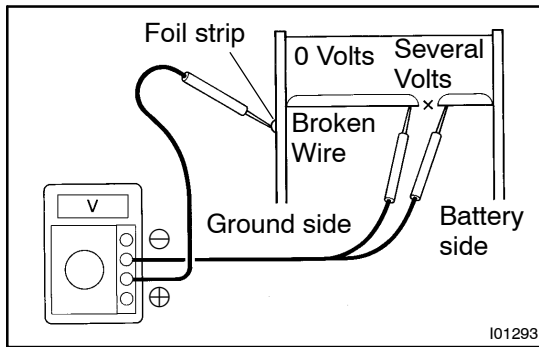
##### NOTICE:

- When cleaning the glass, use a soft, dry cloth, and wipe the glass in the direction of the wire. Take care not to damage the wires.
- Do not use detergents or glass cleaners with abrasive ingredients.
- When measuring voltage, wrap a piece of tin foil around the tip of the negative probe and press the foil against the wire with your finger, as shown.

- Turn the ignition switch ON.
- Turn the defogger switch ON.
- Inspect the voltage at the center of each heat wire, as shown.



| Voltage           | Criteria                |
|-------------------|-------------------------|
| Approx. 5V        | Okay (No break in wire) |
| Approx. 10V or 0V | Broken wire             |

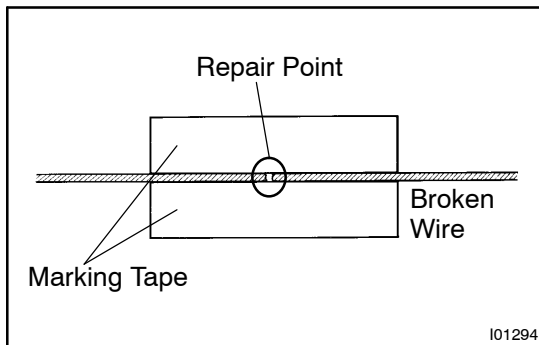
**HINT:**

If there is approximately 10 V, the wire is broken between the center of the wire and the positive (+) end. If there is no voltage, the wire is broken between the center of the wire and ground.

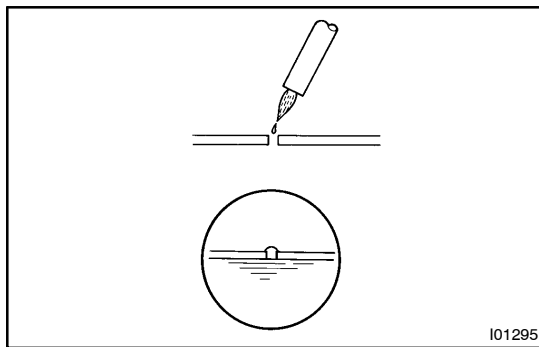
- (d) Place the voltmeter positive (+) lead against the defogger wire on the battery side.
- (e) Place the voltmeter negative (-) lead with the foil strip against the wire on the ground side.
- (f) Slide the positive (+) lead from battery to ground side.
- (g) The point where the voltmeter deflects from several V to zero V is the place where the defogger wire is broken.

**HINT:**

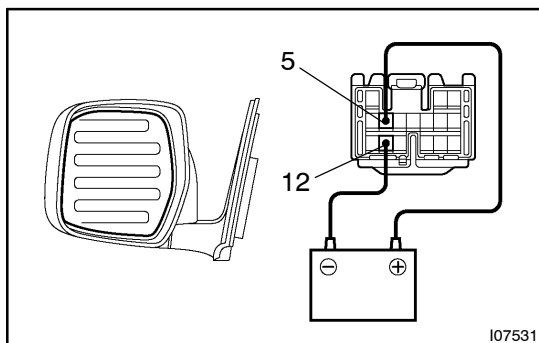
If the heat wire is not broken, the voltmeter indicates 0 V at the positive (+) end of the heat wire but gradually increases to about 12 V as the meter probe moves to the other end.

**9. IF NECESSARY, REPAIR DEFOGGER WIRE**

- (a) Clean the broken wire tips with grease, wax and silicone remover.
- (b) Place the masking tape along both sides of the wire for repair.
- (c) Thoroughly mix the repair agent (Dupont paste No. 4817).



- (d) Using a fine tip brush, apply a small amount of the agent to the wire.
- (e) After a few minutes, remove the masking tape.
- (f) Do not repair the defogger wire for at least 24 hours.

**10. w/ Mirror Heater****INSPECT MIRROR HEATER OPERATION**

- (a) Connect the positive (+) lead from the battery to terminal 5 and the negative (-) lead to terminal 12.
- (b) Check that the mirror becomes warm.

**HINT:**

It will take a short time for the mirror to become warm.