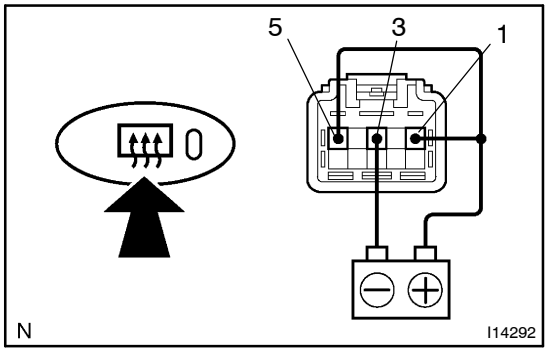
BE1ET–02

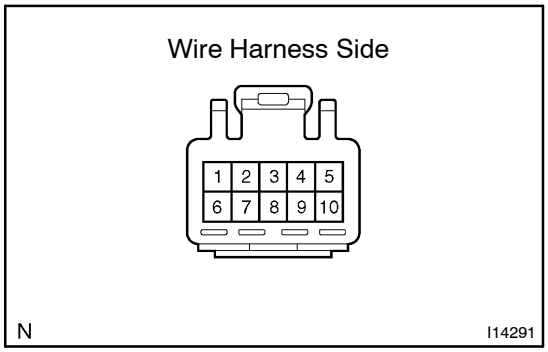


INSPECTION

1. Manual A/C:
INSPECT DEFOGGER TIMER OPERATION

(a) Connect the positive (+) lead from the battery to terminal 1 and negative (–) lead to terminal 3.
(b) Connect the positive (+) lead from the battery to terminal 5 through a 3.4 W test bulb.
(c) Turn the defogger switch ON and check that the indicator light and test bulb light up for 12 for 18 minutes, then the indicator light and test bulb lights go out.

If operation is not as specified, replace the switch.



2. Manual A/C:
INSPECT DEFOGGER SWITCH CIRCUIT
Connector disconnected:

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

Tester connection	Condition	Specified condition
3 – Ground	Constant	Continuity
5 – Ground	Ignition switch LOCK or ACC	No voltage
5 – Ground	Ignition switch ON	Battery voltage

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

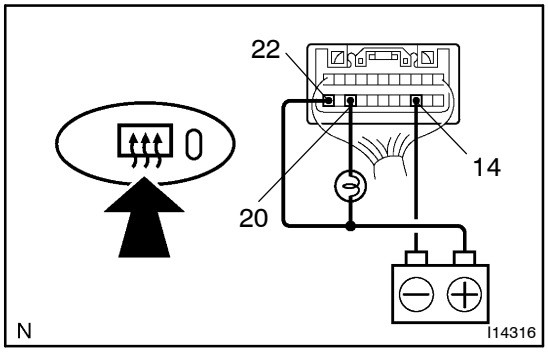
3. Manual A/C:
INSPECT DEFOGGER SWITCH CIRCUIT
Connector connected:

Connect the connector from the switch and inspect the wire harness side connector from the back side, as shown in the chart.

Tester connection	Condition	Specified condition
5 – Ground	Ignition switch ON and defogger switch OFF	Battery voltage
5 – Ground	Ignition switch ON and defogger switch ON	No voltage

If the circuit is not as specified, try replacing the switch with a new one.

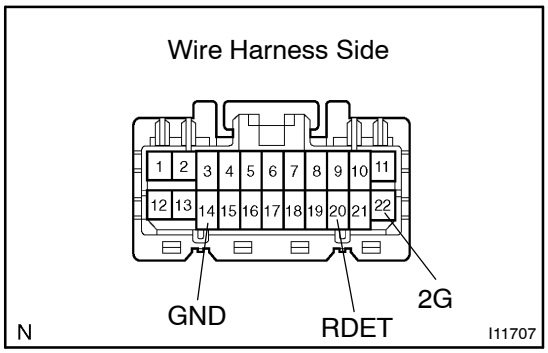
If the circuit is not as specified, inspect the circuit connected to other parts.



4. Auto A/C:
INSPECT DEFOGGER TIMER OPERATION

(a) Connect the positive (+) lead from the battery to terminal 22 and negative (–) lead to terminal 14.
(b) Connect the positive (+) lead from the battery to terminal 20 through a 3.4 W test bulb.
(c) Turn the defogger switch ON and check that the indicator light and test bulb light up for 12 for 18 minutes, then the indicator light and test bulb lights go out.

If operation is not as specified, replace the switch.

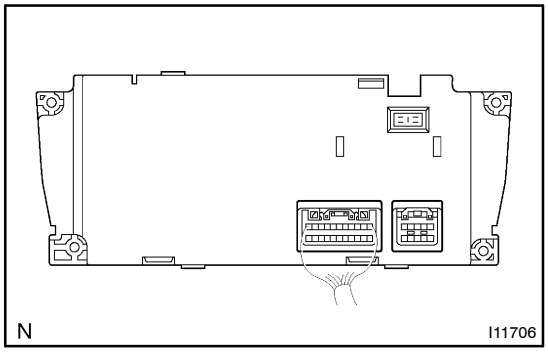


5. Auto A/C:
INSPECT DEFOGGER SWITCH CIRCUIT
Connector disconnected:

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

Tester connection	Condition	Specified condition
14 – Ground	Constant	Continuity
14 – Ground 20 – Ground	Ignition switch LOCK or ACC	No voltage
14 – Ground 20 – Ground	Ignition switch ON	Battery voltage

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



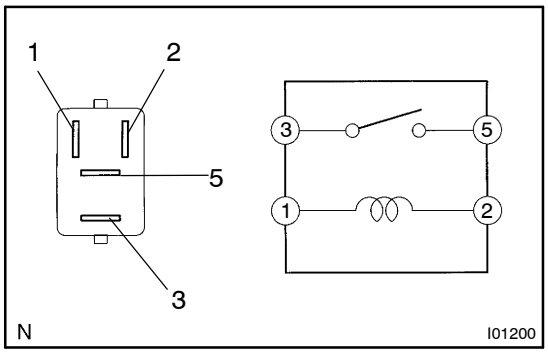
6. Auto A/C:
INSPECT DEFOGGER SWITCH CIRCUIT
Connector connected:

Connect the connector from the switch and inspect the wire harness side connector from the back side, as shown in the chart.

Tester connection	Condition	Specified condition
20 – Ground	Ignition switch ON and defogger switch ON Ignition switch ON and defogger switch OFF Battery voltage	No voltage

If the circuit is not as specified, try replacing the switch with a new one.

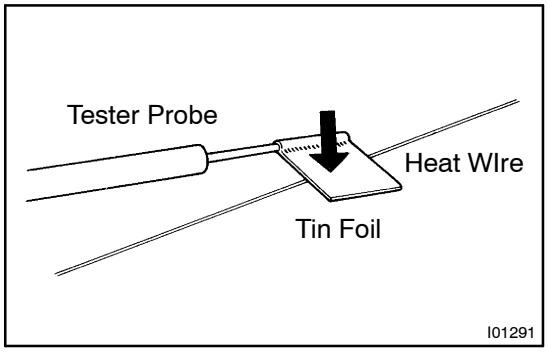
If the circuit is not as specified, inspect the circuit connected to other parts.



7. 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.

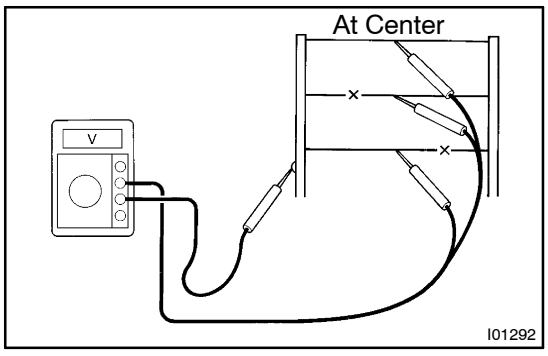


8. INSPECT DEFOGGER WIRE

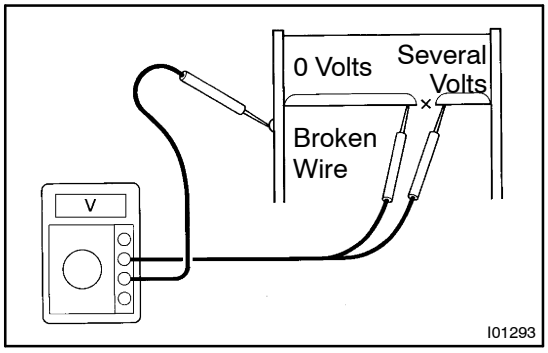
NOTICE:

- **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, wind a piece of tin foil around the top of the negative probe and press the foil against the wire with your finger, as shown.**

(a) Turn the ignition switch ON.
(b) Turn the defogger switch ON.
(c) Inspect the voltage at the center of each heat wire, as shown.



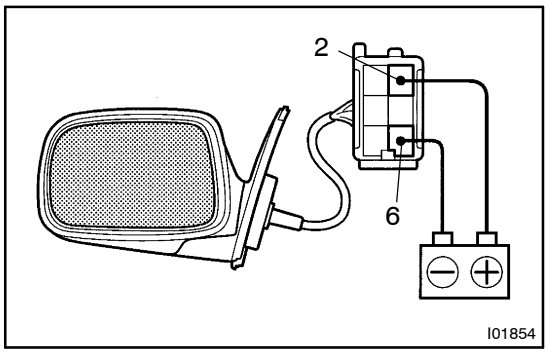
Voltage	Criteria
Approx. 5V	Okay (No break in wire)
Approx. 10V or 0V	Broken wire



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 positive (+) terminal.
(e) Place the voltmeter negative (–) lead with the foil strip against the heat wire at the positive (+) terminal end and slide it toward the negative (–) terminal end.
(f) The point where the voltmeter deflects from zero to several V is the place where the heat 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 is moved to the other end.



9. w/ Mirror Heater:
INSPECT MIRROR DEFOGGER OPERATION

(a) Connect the positive (+) lead from the battery to terminal 2 and the negative (–) lead to terminal 6.
(b) Check that the mirror becomes warm.

HINT:
If will take a short time for the mirror to become warm.