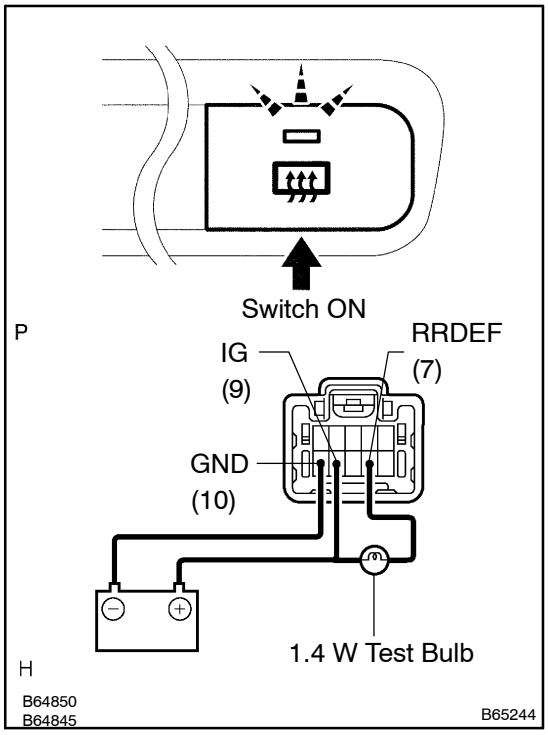
700OE–01

INSPECTION



1. INSPECT AIR CONDITIONING CONTROL ASSY (MANUAL AIR CONDITIONING)

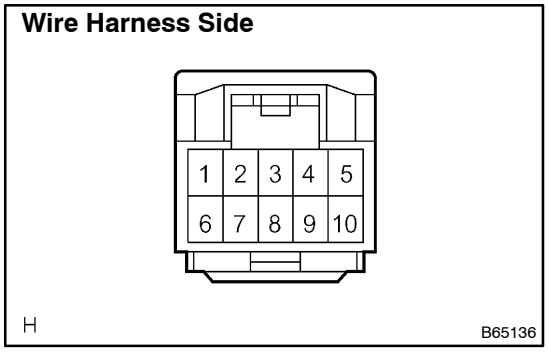
(a) Inspect operation of the defogger timer.

(1) Connect the positive (+) lead from the battery to terminal 9 and the negative (–) lead to terminal 10.

(2) Connect the positive (+) lead from the battery to terminal 7 through a 1.4 W test bulb.

(3) Push the defogger switch ON, and check that the indicator light on the switch and the test bulb light up for 12 to 18 minutes then the indicator light and the test bulb go off.

If the result is not as specified, replace the A/C control assy.



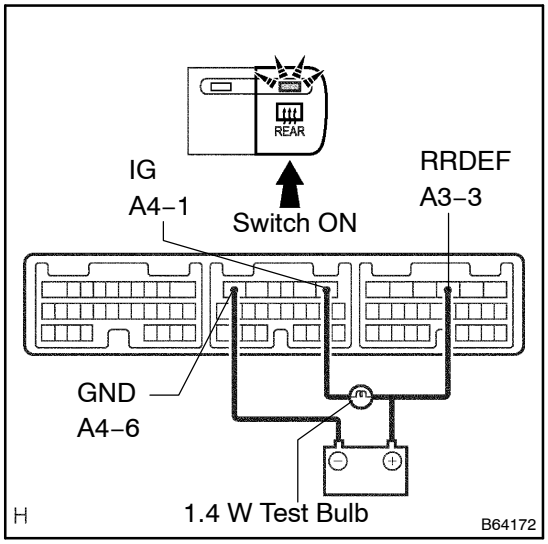
(b) Disconnect the connector from the A/C control assy.

(c) Check the voltage or continuity of each terminal of the wire harness side connector.

Standard:

Terminal No.	Condition	Specified Condition
10 ⇔ Body ground	Constant	Continuity
7 ⇔ Body ground	Ignition switch Lock or ACC	No voltage
7 ⇔ Body ground	Ignition switch ON	Battery positine voltage
9 ⇔ Body ground	Ignition switch Lock or ACC	No voltage
9 ⇔ Body ground	Ignition switch ON	Battery positine voltage

If the result is not as specified, there may be a malfunction on the wire harness side.



2. INSPECT AIR CONDITIONING CONTROL ASSY (AUTO AIR CONDITIONING)

(a) Inspect operation of the defogger timer.

(1) Connect the positive (+) lead from the battery to terminal A3–3 and the negative (–) lead to terminal A4–6.

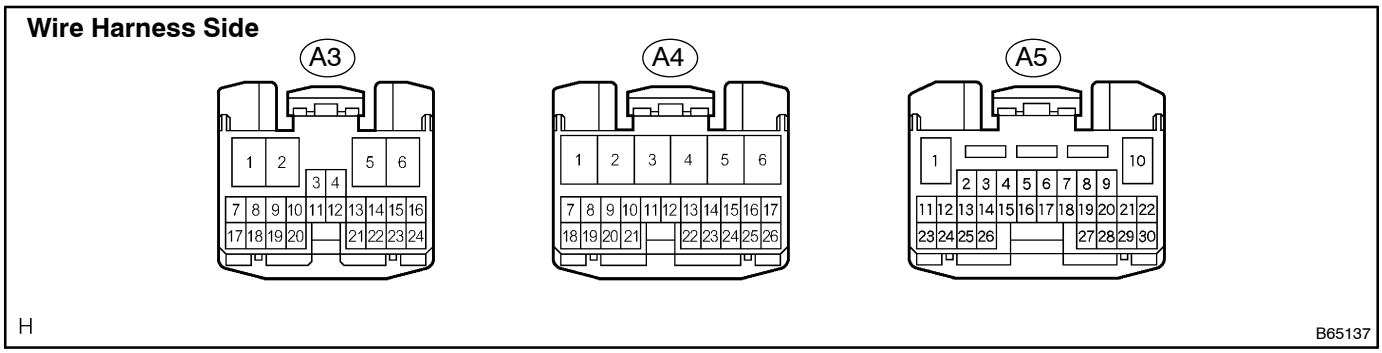
(2) Connect the positive (+) lead from the battery to terminal A4–1 through a 1.4 W test bulb.

(3) Push the defogger switch ON, and check that the indicator light on the switch and the test bulb light up for 12 to 18 minutes then the indicator light and the test bulb go off.

If the result is not as specified, replace the A/C control assy.

(b) Disconnect the connector from the A/C control assy.

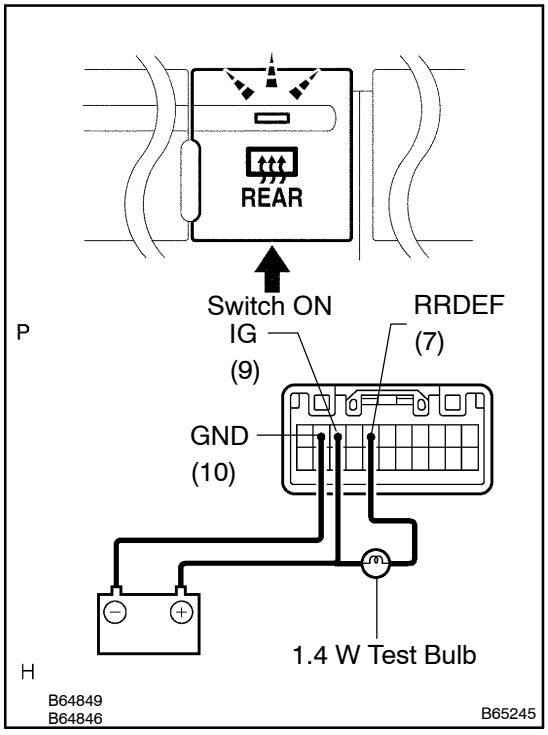
(c) Check the voltage or continuity of each terminal of the wire harness side connector.



Standard:

Terminal No.	Condition	Specified Condition
A4–6 ⇔ Body ground	Constant	Continuity
A4–1 ⇔ Body ground	Ignition switch Lock or ACC	No voltage
A4–1 ⇔ Body ground	Ignition switch ON	Battery positine voltage
A3–3 ⇔ Body ground	Ignition switch Lock or ACC	No voltage
A3–3 ⇔ Body ground	Ignition switch ON	Battery positine voltage

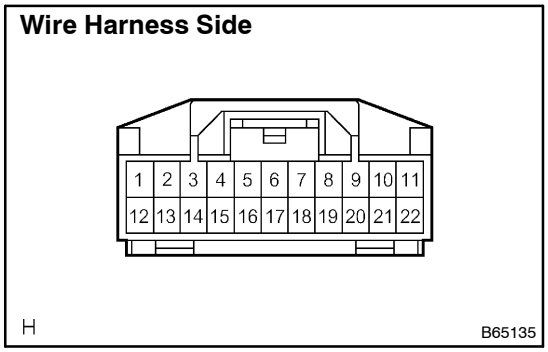
If the result is not as specified, there may be a malfunction on the wire harness side.



3. INSPECT AIR CONDITIONING CONTROL ASSY (AUTO AIR CONDITIONING, W/ EMV & NAVIGATION SYSTEM)

(a) Inspect operation of the defogger timer.
  (1) Connect the positive (+) lead from the battery to terminal 9 and the negative (–) lead to terminal 10.
  (2) Connect the positive (+) lead from the battery to terminal 7 through a 1.4 W test bulb.
  (3) Push the defogger switch ON, and check that the indicator light on the switch and the test bulb light up for 12 to 18 minutes then the indicator light and the test bulb go off.

If the result is not as specified, replace the A/C control assy.

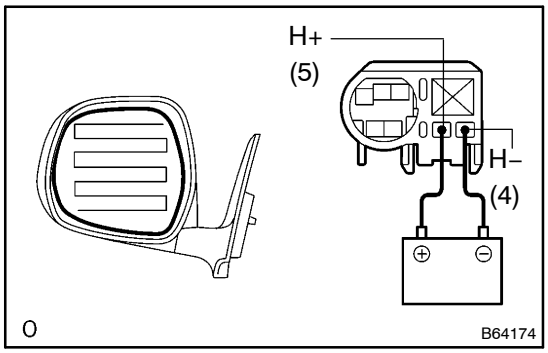


(b) Disconnect the connector from the A/C control assembly.
(c) Check the voltage or continuity of each terminal of the wire harness side connector.

Standard:

Terminal No.	Condition	Specified Condition
10 ⇔ Body ground	Constant	Continuity
7 ⇔ Body ground	Ignition switch Lock or ACC	No voltage
7 ⇔ Body ground	Ignition switch ON	Battery positine voltage
9 ⇔ Body ground	Ignition switch Lock or ACC	No voltage
9 ⇔ Body ground	Ignition switch ON	Battery positine voltage

If the result is not as specified, there may be a malfunction on the wire harness side.



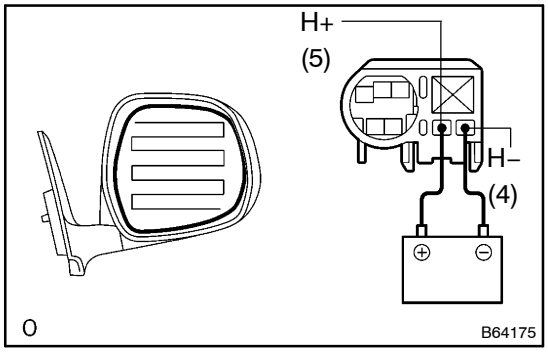
4. INSPECT OUTER REAR VIEW MIRROR ASSY LH (W/ OUTER MIRROR HEATER)

(a) Inspect operation of the mirror heater.

Standard:

Measurement Condition	Specified Condition
Battery positive (+) → H+ (5) Battery negative (–) → H– (4)	Mirror becomes warm

If the result is not as specified, replace the mirror assy.



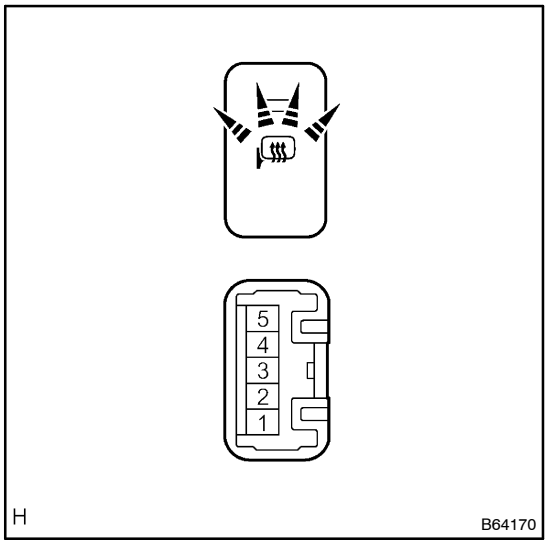
5. INSPECT OUTER REAR VIEW MIRROR ASSY RH (W/ OUTER MIRROR HEATER)

(a) Inspect operation of the mirror heater .

Standard:

Measurement Condition	Specified Condition
Battery positive (+) → H+ (5) Battery negative (–) → H– (4)	Mirror becomes warm

If the result is not as specified, replace the mirror assy.



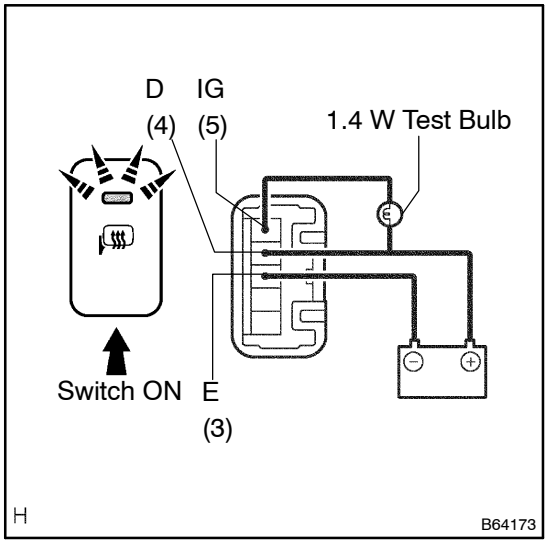
6. INSPECT OUTER MIRROR HEATER SWITCH ASSY (W/ OUTER MIRROR HEATER)

(a) Inspect operation of the defogger switch illumination.

Standard:

Measurement Condition	Specified Condition
Battery positive (+) → ILL+ (1) Battery negative (–) → ILL– (2)	Illumination light lights up

If the result is not as specified, replace the outer mirror heater switch assy or bulb.



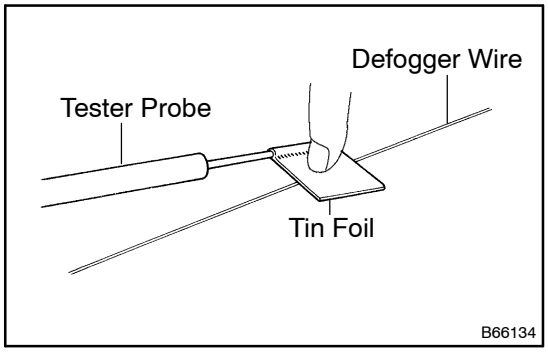
(b) Inspect operation of the defogger timer.

(1) Connect the positive (+) lead from the battery to terminal 4 and the negative (–) lead to terminal 3.

(2) Connect the positive (+) lead from the battery to terminal 5 through a 1.4 W test bulb.

(3) Push the outer mirror heater switch ON, and check that the indicator light on the switch and the test bulb light up for 5 minutes then the indicator light and the test bulb go off.

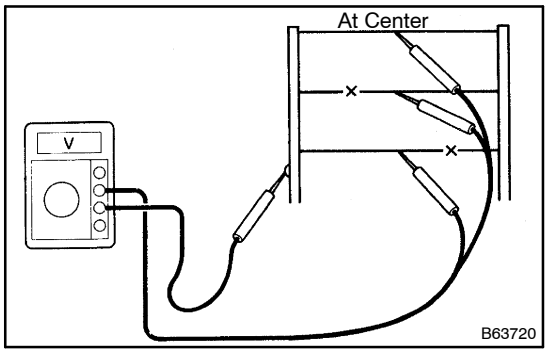
If the result is not as specified, replace the outer mirror heater switch assy.



7. INSPECT BACK WINDOW (DEFOGGER WIRE)

NOTICE:

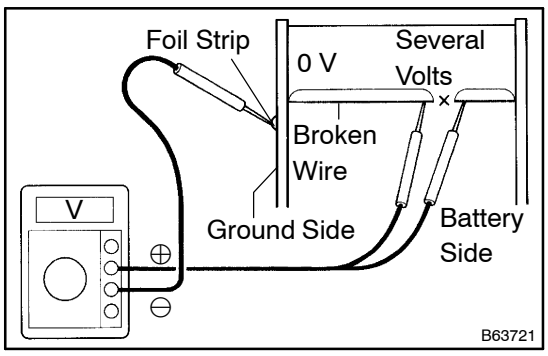
- **When cleaning the glass, wipe the glass along the wire using a soft and dry cloth. Take care not to damage the wires.**
- **Do not use detergents or glass cleaners including abrasive ingredients.**
- **When measuring voltage, wrap a piece of tin foil around the tip of the negative probe and press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



(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 in the illustration.

Standard:

Voltage	Criteria
Approx. 5 V	Okay wire is not broken
Approx. 10 V or 0 V	Wire is not broken



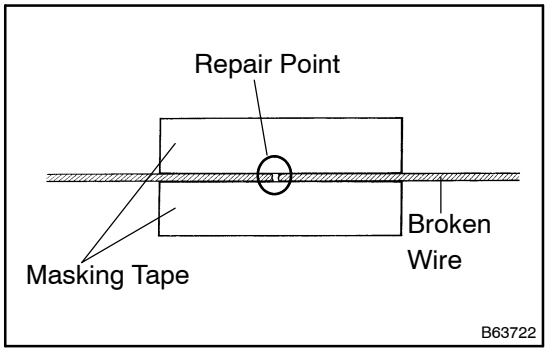
HINT:

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

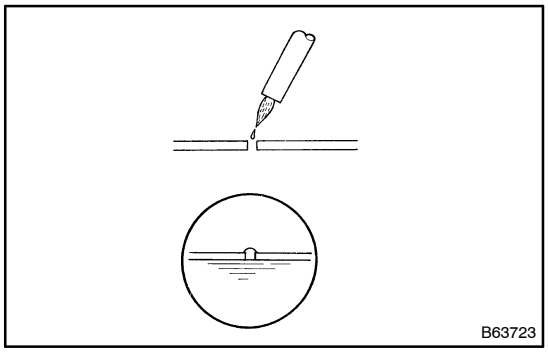
(d) Place the voltmeter positive (+) lead against the defogger wire on the battery side.
(e) Place the voltmeter negative (–) lead with the foil strip against the wire on the ground side.
(f) Slide the positive (+) lead from the battery side to the ground side.
(g) The point where the voltmeter deflects from several V to 0 V is the place where the defogger wire is broken.

HINT:

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

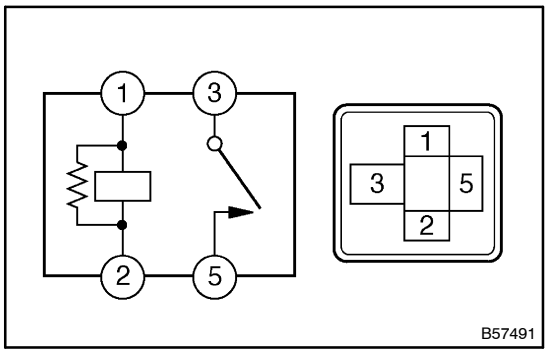


(h) If necessary, repair the defogger wire.
(1) Clean the broken wire tips with grease, wax and silicone remover.
(2) Place the masking tape along the both sides of the wire.
(3) Thoroughly mix the repair agent (Dupont paste No. 4817).



(4) Using a fine tip brush, apply a small amount of the agent to the wire.
(5) After a few minutes, remove the masking tape.

NOTICE:
Do not repair the defogger wire for at least 24 hours.



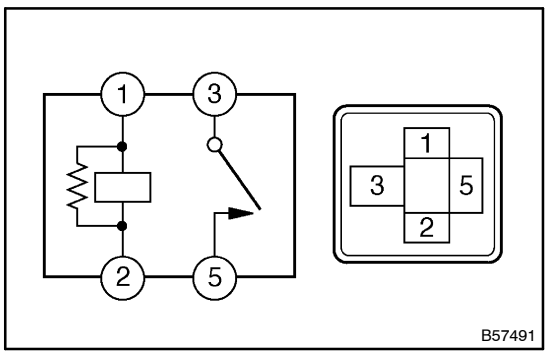
8. INSPECT DEFOGGER RELAY (Marking: DEFOG)

(a) Inspect the continuity.

Standard:

Terminal No.	Condition	Specified Condition
1 ⇔ 2	Constant	Continuity
3 ⇔ 5	Constant	No continuity
3 ⇔ 5	Apply B+ between terminals 1 and 2	Continuity

If the result is not as specified, replace the relay.



9. INSPECT HEATER MIRROR RELAY (W/ OUTER MIRROR HEATER) (Marking: MIR HTR)

(a) Inspect the continuity.

Standard:

Terminal No.	Condition	Specified Condition
1 ⇔ 2	Constant	Continuity
3 ⇔ 5	Constant	No continuity
3 ⇔ 5	Apply B+ between terminals 1 and 2	Continuity

If the result is not as specified, replace the relay.