

DEFOGGER SYSTEM

Troubleshooting

Problem	Possible cause	Remedy	Page
Rear window defogger does not work	Ignition control relay faulty DEFOG fuse blown Defogger switch faulty Defogger wire broken Wiring and ground faulty	Check relay Replace fuse and check for short Check switch Check wires Repair as necessary	BE-3 BE-32 BE-32

Parts Inspection

1. INSPECT SWITCH

Terminals	1	2	3
Switch position			
OFF		○	○
ON	○	○	○

If continuity is not as specified, replace the switch.

2. INSPECT DEFOGGER WIRES

NOTICE:

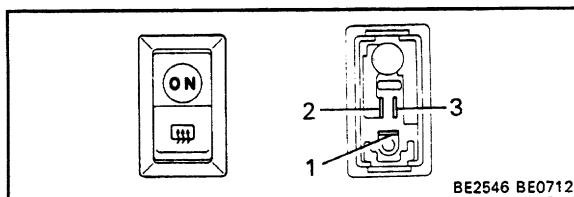
- When cleaning the glass, use a soft, dry cloth, and wipe the glass in the direction of the wire. Take care not to damage the wires.
- Do not use detergents or glass cleaners with abrasive ingredients.
- When measuring voltage, wide a piece of tin foil around the tip of the negative probe and press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

(Wire Breakage)

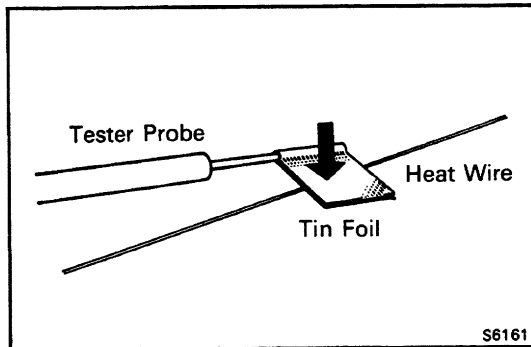
- Turn the ignition switch to ON.
- Push the defogger switch to ON.
- Inspect the voltage at the center of each heat wire as shown.

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

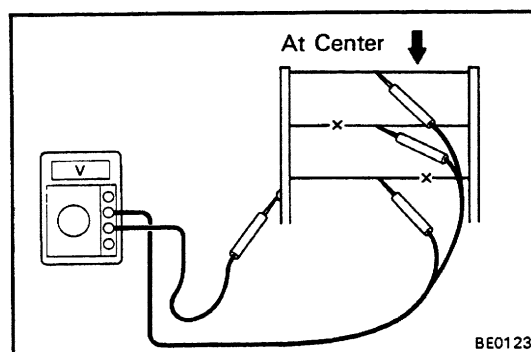
HINT: If there is 10V, the wire is broken between the center of the wire and positive (+) end. If there is no voltage, the wire is broken between the center of the wire and ground.



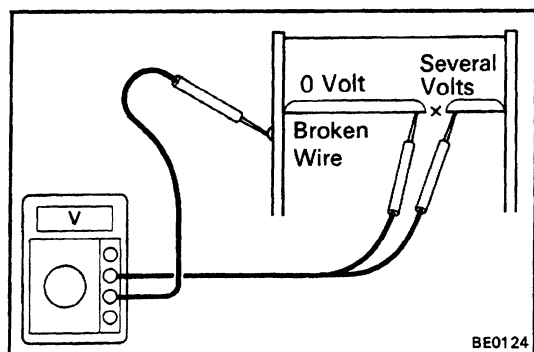
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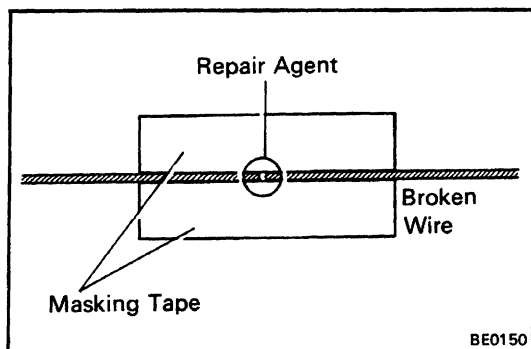


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**(Wire Breakage Point)**

- Place the voltmeter positive (+) lead against the defogger positive (+) terminal.
- 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.
- The point where the voltmeter deflects from zero to several volts is the place where the heat wire is broken.

HINT: If the heat wire is not broken, the voltmeter will indicate OV at the positive (+) end of the heat wire but – gradually increases to about 12V as the meter probe is moved to the other end.

**3. REPAIR DEFOGGER WIRES**

- Clean the broken wire tips with a grease, wax and silicone remover.
- Place masking tape along both sides of the wire to be repaired.

(c) Thoroughly mix the repair agent (DUPONT PASTE No.4817) .

- Using a fine tip brush, apply a small amount to the wire.
- After a few minutes, remove the masking tape.
- Allow the repair to stand at least 24 hours.

