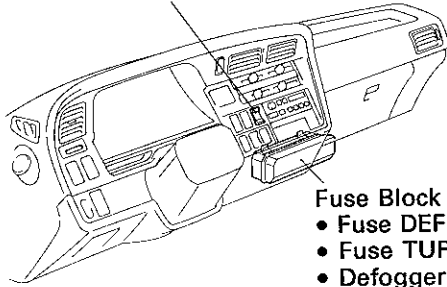


DEFOGGER SYSTEM Parts Location

LHD Vehicles

Defogger Switch



Fuse Block

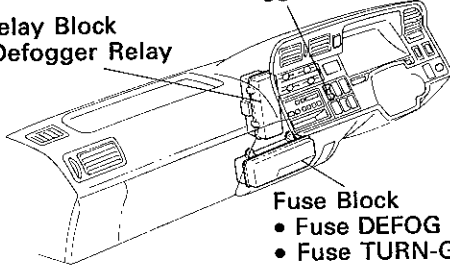
- Fuse DEFOG
- Fuse TURN-GAUGE
- Defogger Relay

RHD Vehicles

Defogger Switch

Relay Block

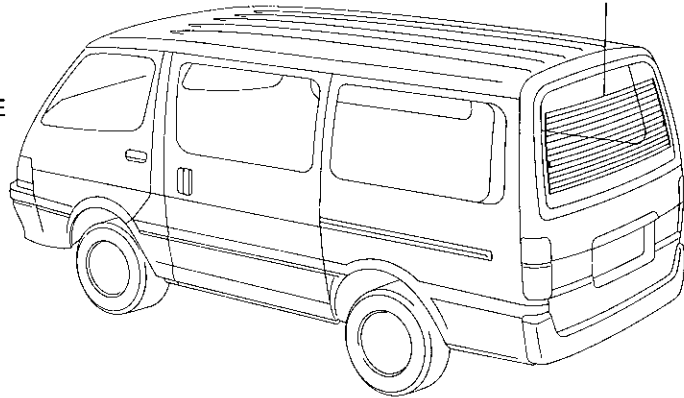
• Defogger Relay



Fuse Block

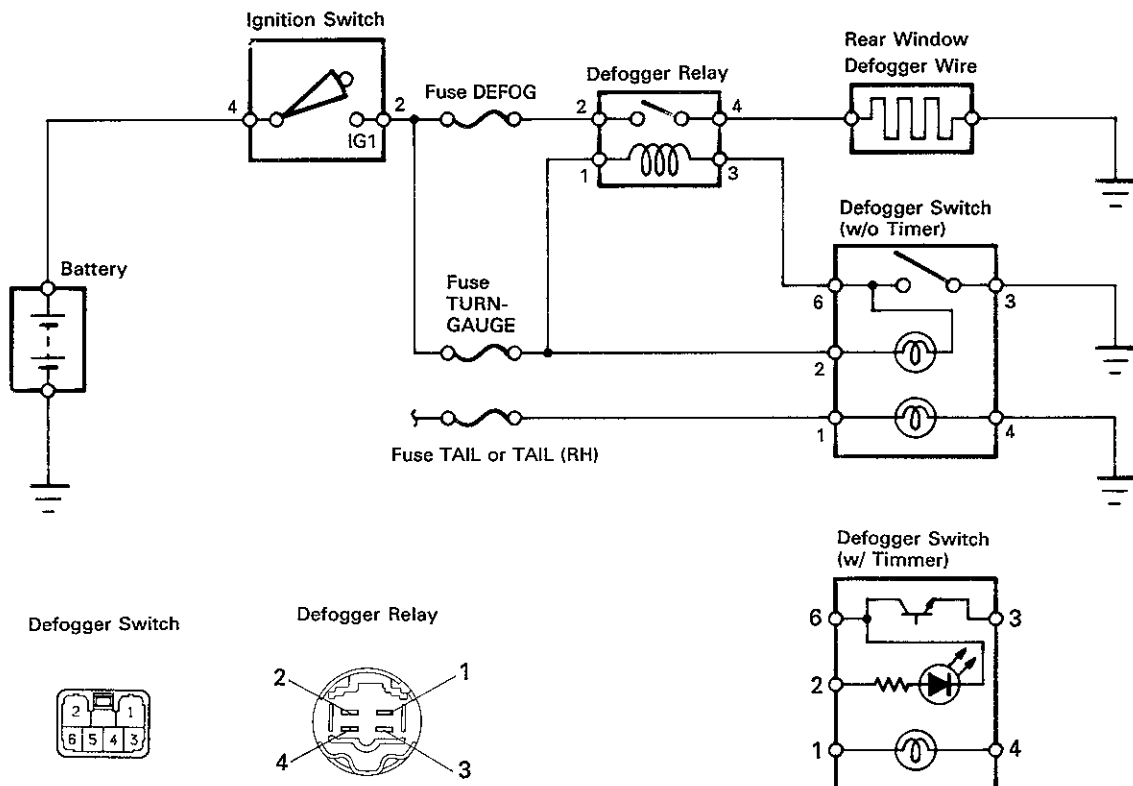
- Fuse DEFOG
- Fuse TURN-GAUGE

Defogger Wire



BE4233 BE4235
BE4234

Wiring and Connector Diagrams



The POWER SOURCE CIRCUIT has been simplified. For full details, see page BE-10.

BE4236
S-6-2 BE1647

Troubleshooting

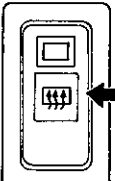
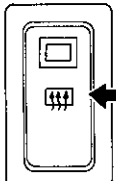


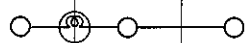
Problem	Possible cause	Remedy	Page
Rear window defogger system do not operate	DEFOG fuse blown	Replace fuse and check for short	BE-7
	GAUGE fuse blown	Replace fuse and check for short	BE-7
	Defogger switch faulty	Check switch	BE-64 to 65
	Defogger relay faulty	Check relay	BE-65
	Defogger wire broken	Check wires	BE-65
	Wiring or ground faulty	Repair as necessary	

Parts Inspection

1-1. (w/o Timer)

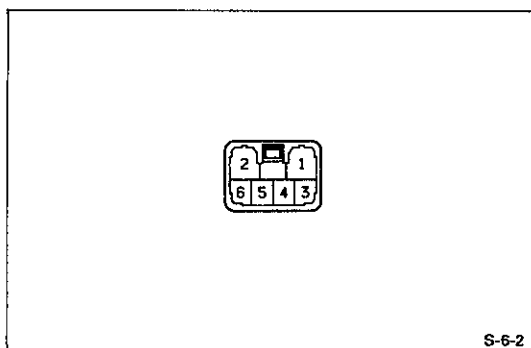
INSPECT DEFOGGER SWITCH

(Continuity)

w/ Illumination		w/o Illumination		Terminal				Illumination			
				Switch position							
								1		4	
											
ON		ON		OFF							
				ON							

BE2899 BE4237 S-6-2

If continuity is not as specified, check the bulb or replace the switch.



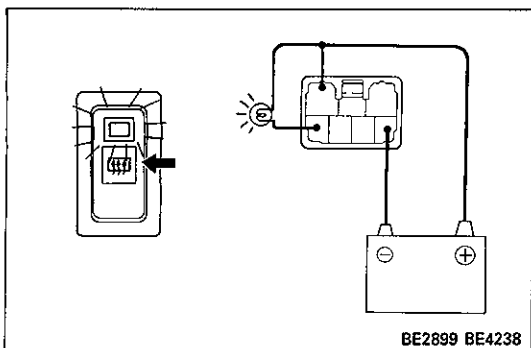
1-2. (w/ Timer)

INSPECT DEFOGGER SWITCH

(Illumination Light/Continuity)

Check that there is continuity between terminals 1 and 4.

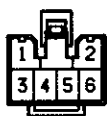
If continuity is not as specified, check the bulb.



(Timer Operation)

- Connect the Positive (+) lead from the battery to terminals 2 and the negative (-) lead to terminal 3.
- Connect the positive (+) lead from the battery to terminal 6 through a 3.4 watts test bulb.
- Push the defogger switch ON, check that the indicator light and test bulb lights up for 12 to 18 minutes, then the indicator light and test bulb lights goes out.

If operation is not as specified, replace the switch.

Wire Harness Side

S-6-1

(Timer Circuit)

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

Check for	Tester connection	Condition		Specified value
Continuity	3 – Ground	Constant		Continuity
Voltage	2 – Ground	Ignition switch position	LOCK or ACC	No voltage
			ON	Battery voltage
	6 – Ground	Ignition switch position	LOCK or ACC	No voltage
			ON	Battery voltage
Operation	—	Connect terminals 2 and 6.		Defogger system operation is normal

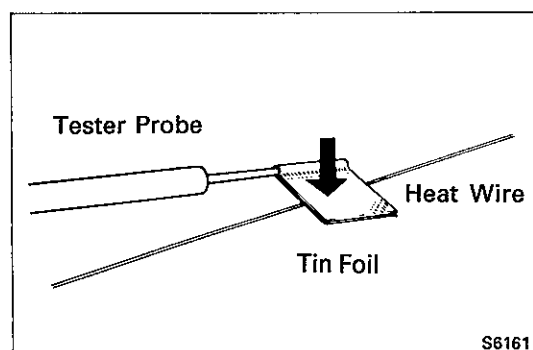
If the circuit is as specified, replace the switch.

2. INSPECT DEFOGGER RELAY

See Dim-Dip Relay No.3 on Page BE-27.

3. 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, 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.



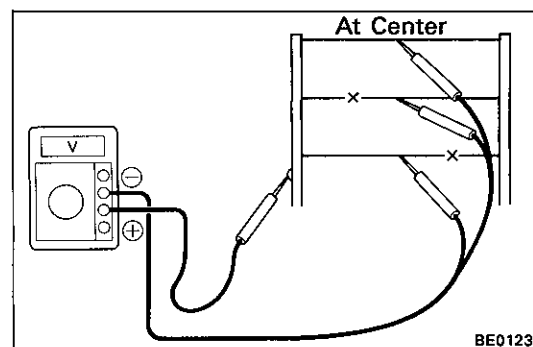
S6161

(Wire Breakage)

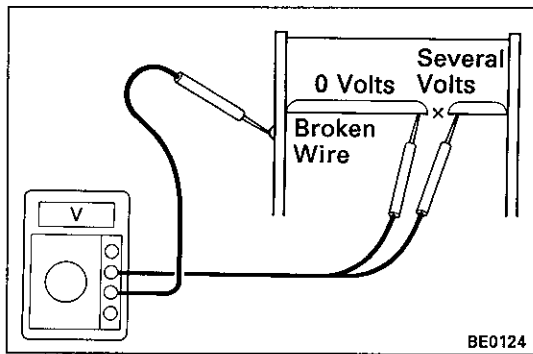
- Turn the ignition switch ON.
- Push in the defogger switch.
- Inspect the voltage at the center of each heat wire as shown.

Voltage	Criteria
approx. 5V	Okey (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.

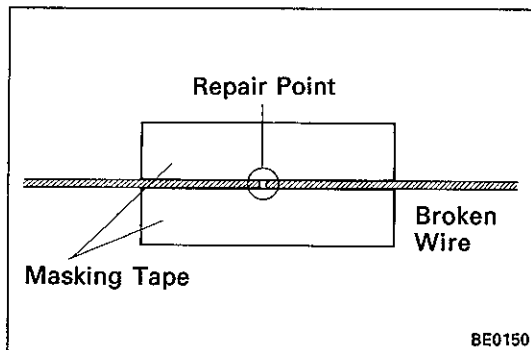


BE0123

**(Wire Breakage Point)**

- Place the boltmeter positive (+) lead against the defogger positive (+) terminal.
- Place the boltmeter 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 indicates 0 volts at the positive (+) end of the heat wire but gradually increases to about 12 volts as the meter probe is moved to the other end.

**4. REPAIR DEFOGGER WIRES**

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

