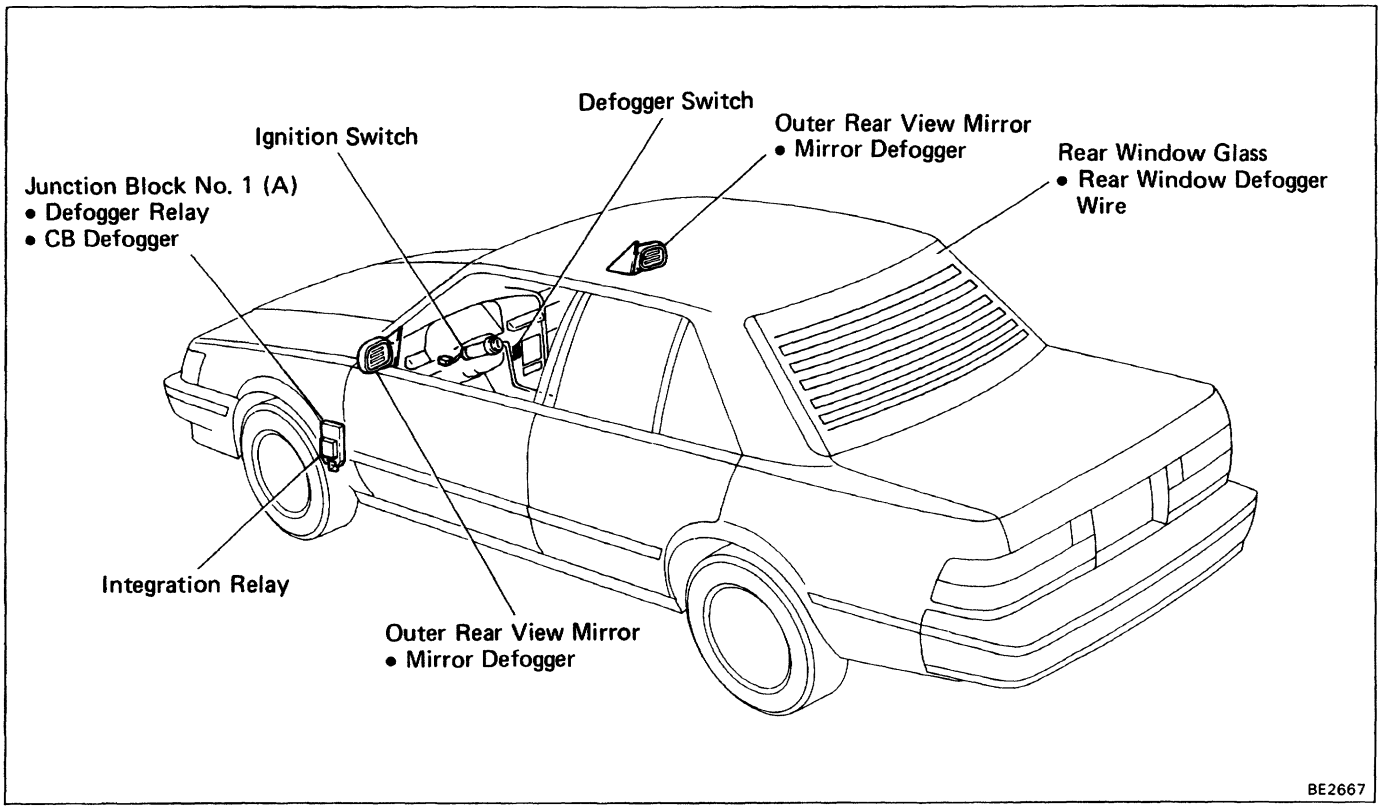
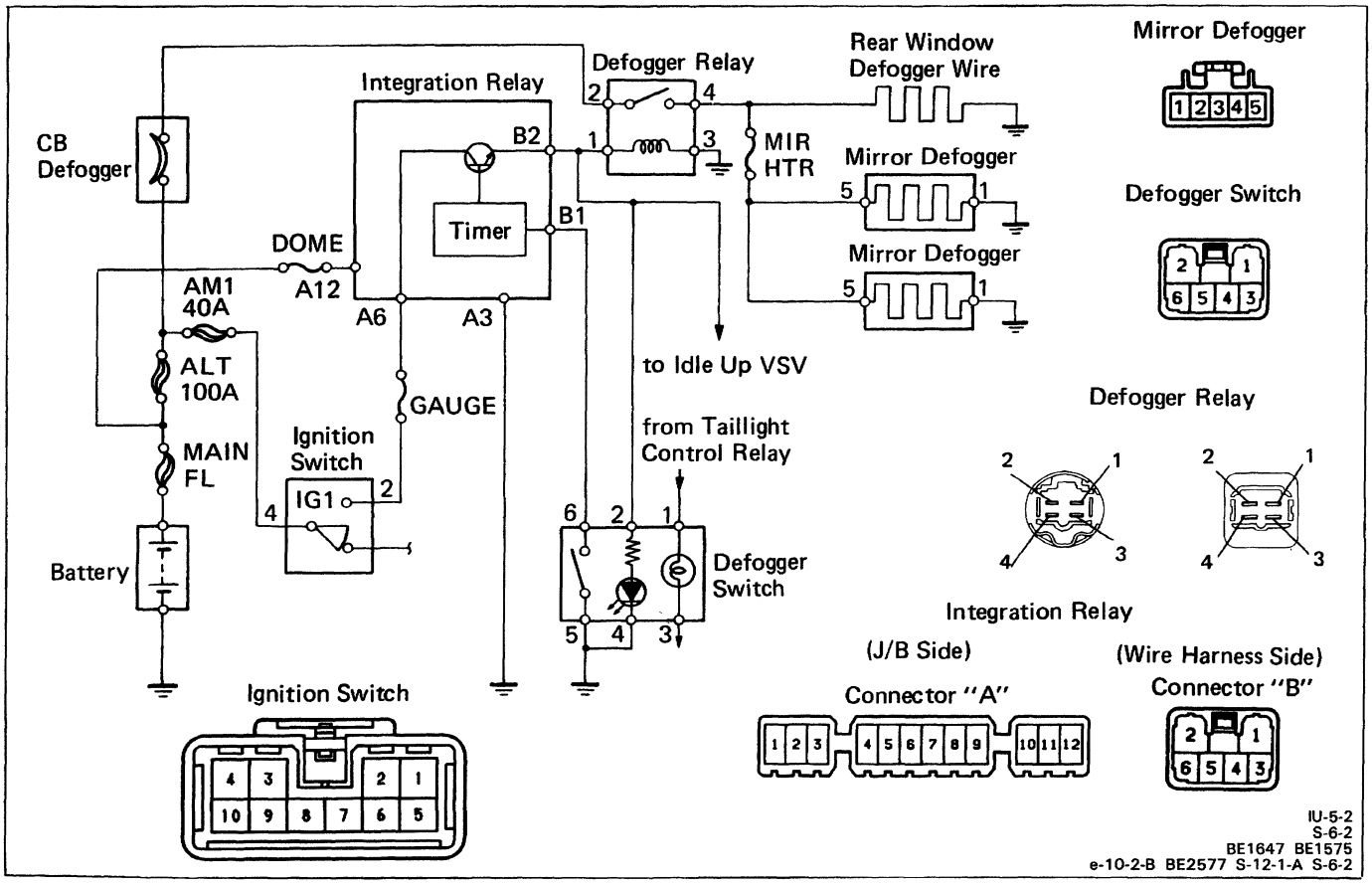
DEFOGGER SYSTEM

Parts Location



Wiring and Connector Diagrams



Troubleshooting

Problem	Possible cause	Remedy	Page
All defogger systems do not operate	Circuit Breaker OFF	Reset breaker and check for short	BE–3
	DOME fuse blown	Replace fuse and check for short	BE–3
	GAUGE fuse blown	Replace fuse and check for short	BE–3
	Defogger switch faulty	Check switch	BE–48
	Defogger relay faulty	Check relay	BE–49
	Integration relay faulty	Check relay	BE–49
	Wiring or ground faulty	Repair as necessary	
Rear window defogger does not operate	Defogger wires broken	Check defogger wires	BE–50
	Wiring or ground faulty	Repair as necessary	
Mirror defogger does not operate	Mirror defogger faulty	Check mirror	BE–51
	Wiring or ground faulty	Repair as necessary	

On–Vehicle Inspection

Defogger Idle–Up System

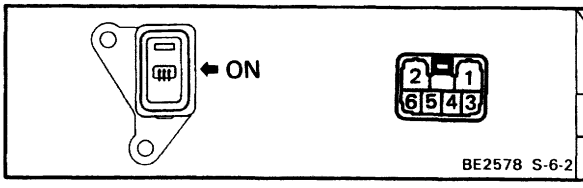
Set the defogger switch ON, check that the engine revolutions increase.

Parts Inspection

Rear Window Defogger System

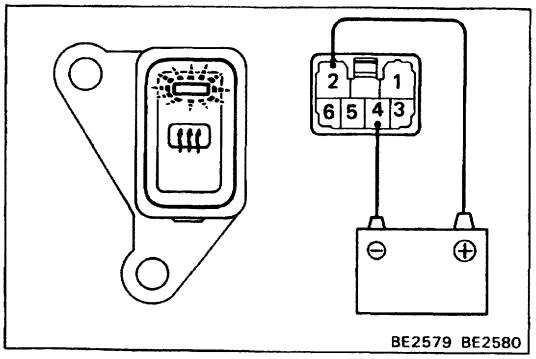
1. INSPECT DEFOGGER SWITCH

(Continuity)



Terminal / Switch position	5	6	Illumination 1	Illumination 3
OFF				
ON	○——	——○	○—◎—○	

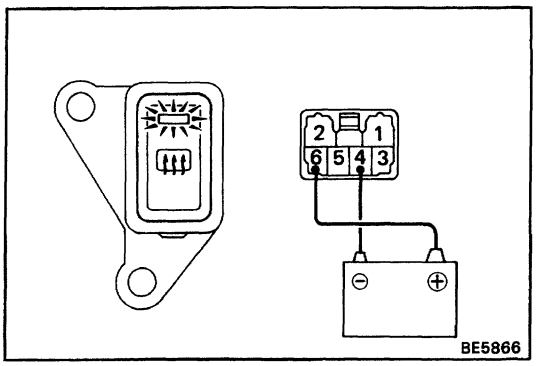
If continuity is not as specified, replace the switch.



(Indicator Light Operation)

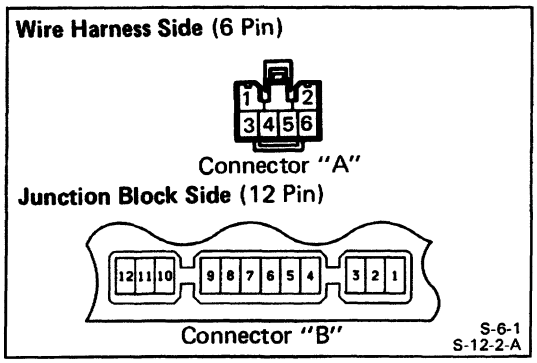
[w/ Timer]

Connect the positive (+) lead from the battery to terminal 2 and the negative (–) lead to terminal 4, check that the indicator light lights up. If indicator light does not light up, replace the switch.



[w/o Timer]

Connect the positive (+) lead from the battery to terminal6 and the negative (–) lead to terminal 4, check that the indicator light lights up. If indicator light does not light up, replace the switch.



2. INSPECT RELAYS

(Defogger Relay)

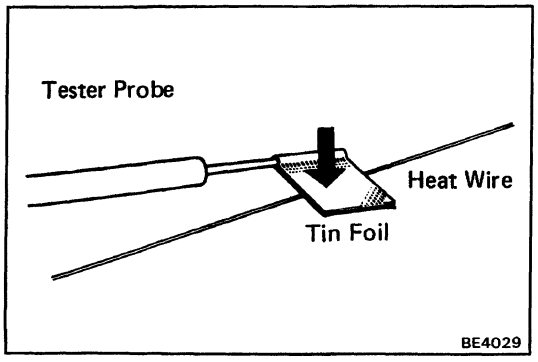
See Taillight Control Relay on page BE–22.

(Integration Relay/ Relay Circuit)

Disconnect the connectors from the integration relay and inspect the connectors on the wire harness side and junction block side as shown in the chart.

Check for	Tester connection	Condition		Specified value
Continuity	A–1 – Ground	Defogger switch position	Free	No continuity
			Pushed in	Continuity
	B–3 – Ground	Constant		Continuity
Voltage	B–6 – Ground	Ignition switch position	LOCK or ACC	No voltage
			ON	Battery voltage
	6–12 – Ground	Constant		Battery voltage
Operation	—	Connect terminals A2 and B6, then turn ignition switch ON.		Defogger system operation is normal.

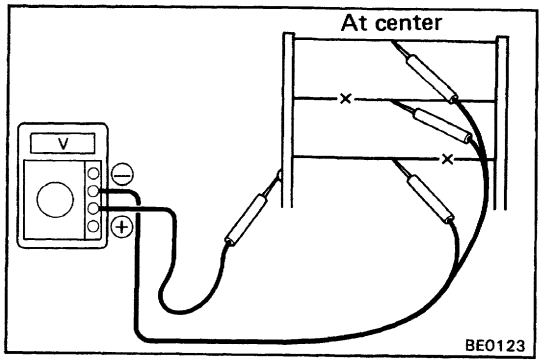
If the circuit is as specified, replace the integration relay.



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.**

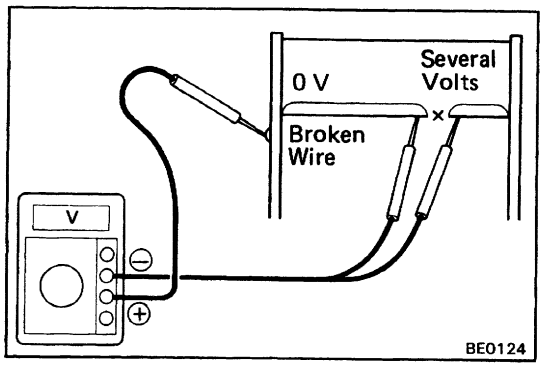


(Wire Breakage)

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

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

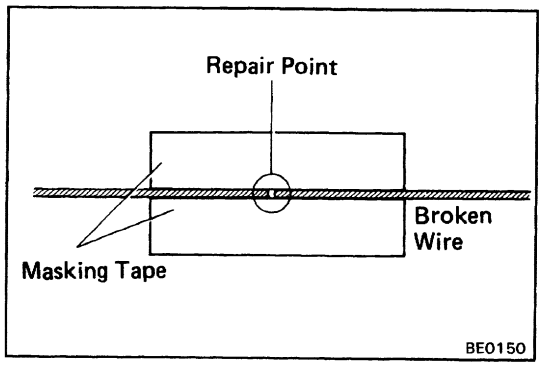
HINT: If there is approximately 10 V, the wire is broken between the center of the wire and the positive (+) end. If there is no voltage, the wire is broken between the center of the wire and ground.



(Wire Breakage Point)

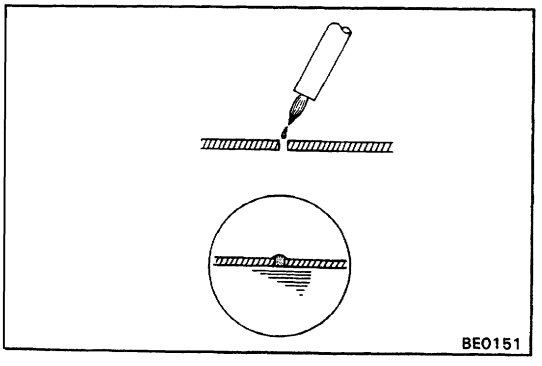
(a) Place the voltmeter positive (+) lead against the defogger positive (+) terminal.
(b) Place the voltmeter negative (–) lead with the foil strip against the heat wire at the positive (+) terminal end and slide it toward the negative (–) terminal end.
(c) The point where the voltmeter deflects from 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 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.



4. REPAIR DEFOGGER WIRES

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



(c) Thoroughly mix the repair agent (Dupont paste No.4817) .
(d) Using a fine tip brush, apply a small amount to the wire.
(e) After a few minutes, remove the masking tape.
(f) Allow the repair to stand at least 24 hours.

Mirror Defogger System

1. INSPECT DEFOGGER SWITCH

See Step 1 of Rear Window Defogger System on page BE–48.

2. INSPECT DEFOGGER RELAY

See Taillight Control Relay on page BE–49.

3. INSPECT INTEGRATION RELAY

See Step 2 of Rear Window Defogger System on page BE–49.

4. INSPECT MIRROR DEFOGGER

(a) Connect the positive (+) lead from the battery to terminal 5 and the negative (–) lead to terminal 1.

(b) Check that the mirror becomes warm.

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

If the mirror does not become warm, replace the mirror assembly.