

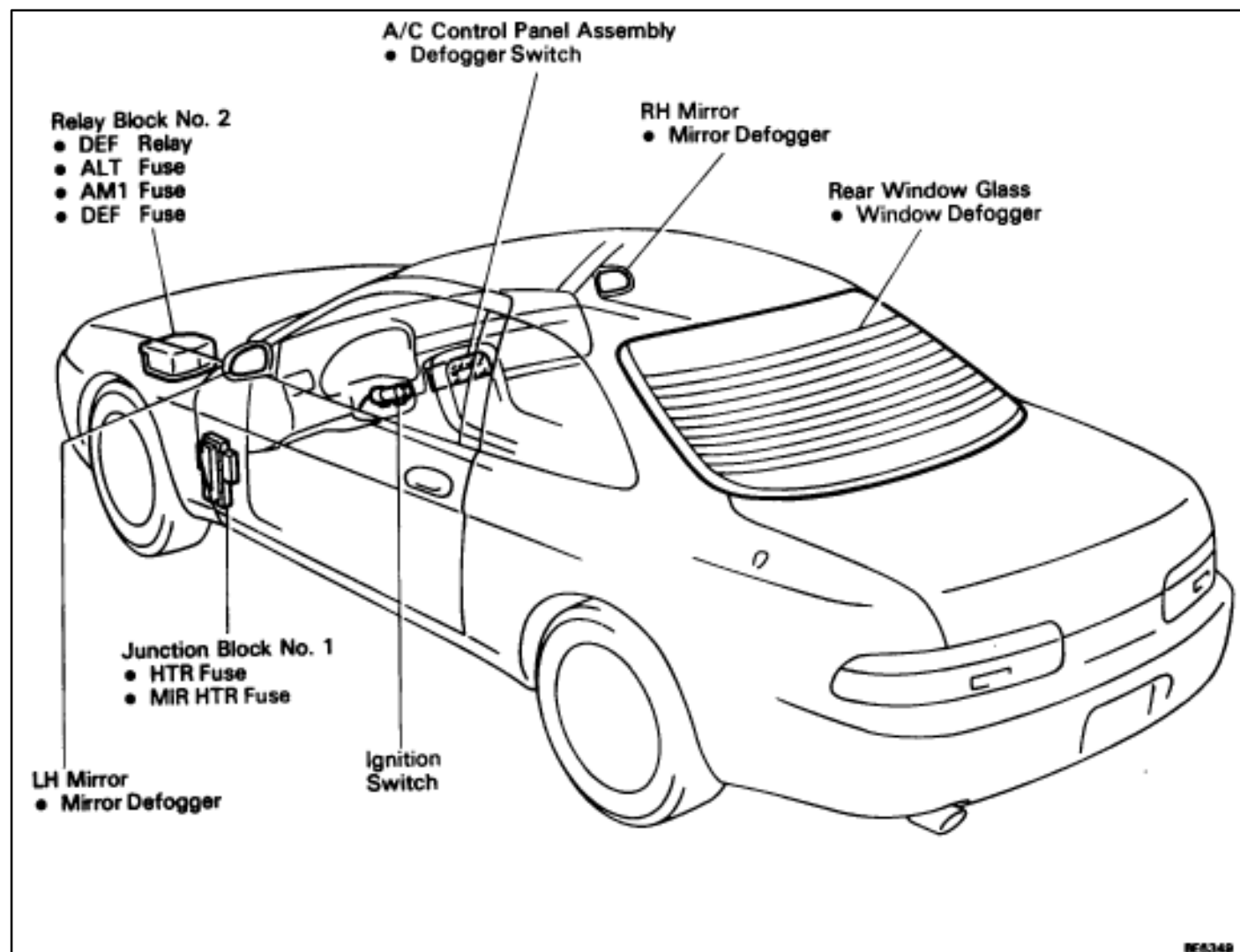
# DEFOGGER SYSTEM

## Description

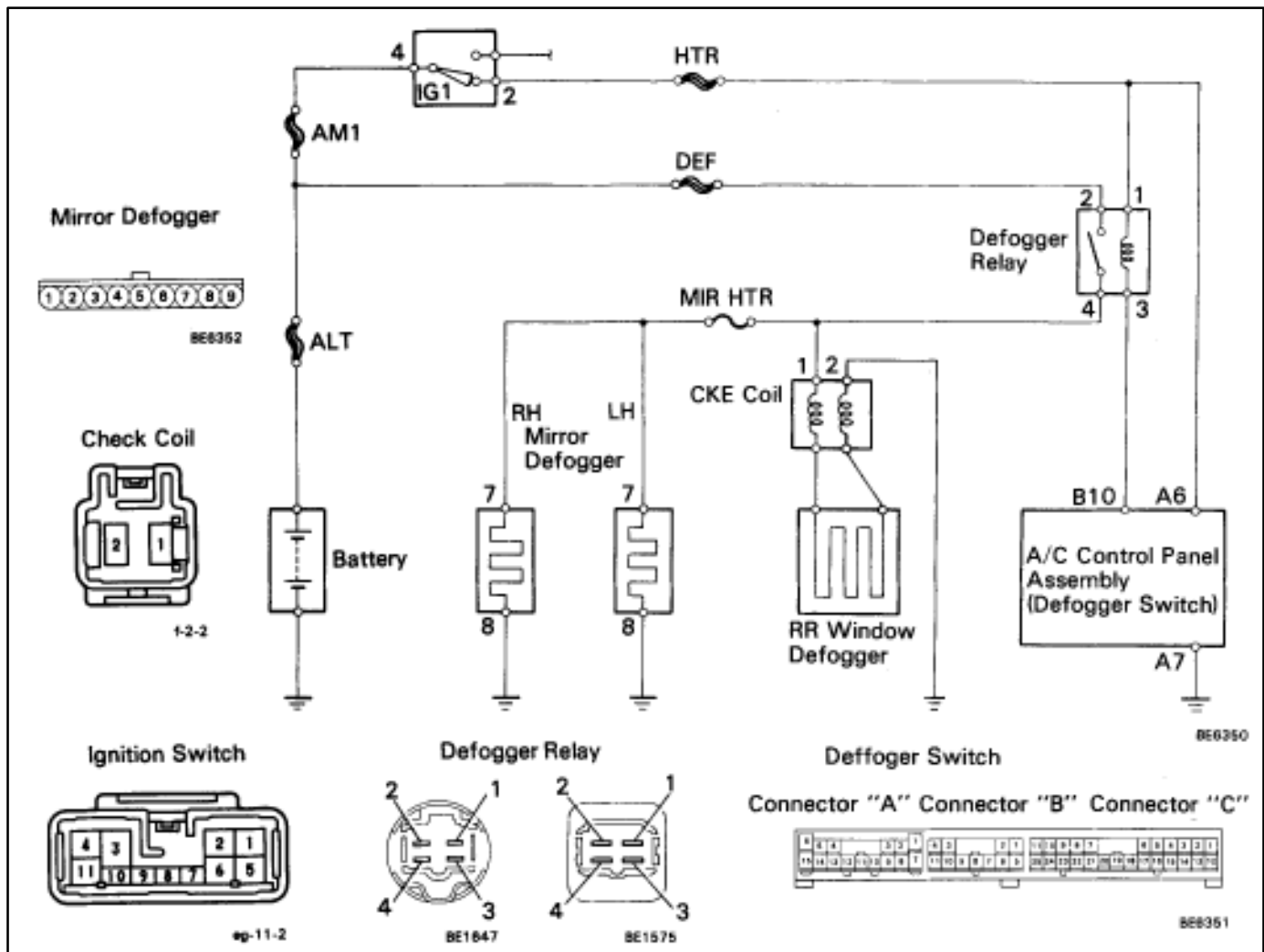
The component parts of this system and their functions are described in the following table.

Parts Name	Function
Defogger	When over current flows in the defogger circuit, the Defogger fuse breaks the circuit to protect it against damage.
Defogger Relay	This relay is supplied with current from terminal IG1 of ignition switch (Ignition switch ON) and switches large current from the defogger.
A/C Control Panel Assembly • Defogger Switch	The defogger switch is built into the A/C Control Panel Assembly. This switch is supplied with current from the relay and fuse HTR. Grounds current from the defogger relay, turning the defogger relay ON.
Defogger • Rear Window • Outer Mirror	These defoggers generate heat when current is supplied from the defogger relay.

## Parts Location



# Wiring and Connector Diagrams



## Parts Inspection (Defogger Switch)

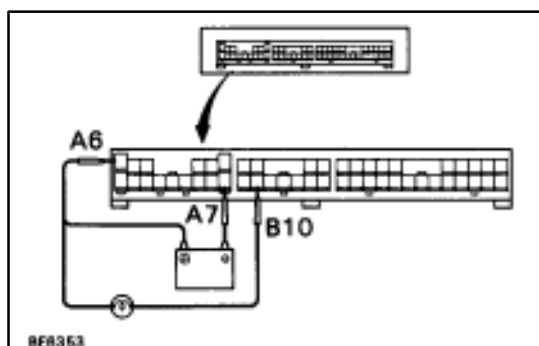
## REMOVAL AND INSTALLATION OF AIR CONDITIONER CONTROL PANEL ASSEMBLY

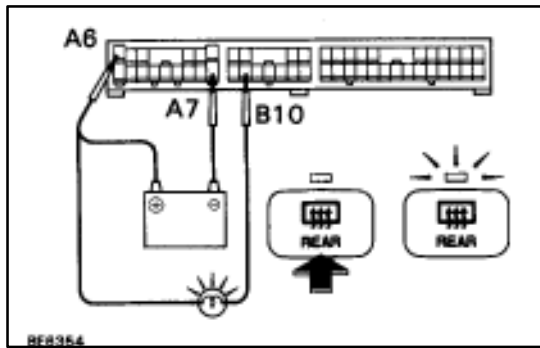
(See Instrument Panel on page [BO-111](#))

## INSPECTION OF DEFOGGER SWITCH

### INSPECT SWITCH OPERATION

- Connect the positive (+) lead from the battery to terminal A6 and negative (–) lead to terminal A7.
- Connect the positive (+) lead from the battery to terminal B10 through a 1.4 W test bulb.





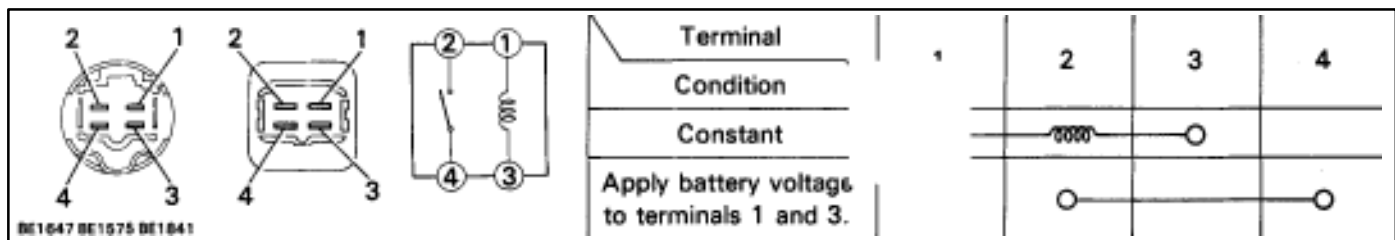
- (c) Turn the defogger switch ON and check that the test bulb and indicator light turn ON, then turn OFF after about 15 minutes.

If operation is not as specified, replace the air conditioner control panel assembly.

## (Defogger Relay)

### INSPECTION OF DEFOGGER RELAY

#### INSPECT RELAY CONTINUITY AND OPERATION



If continuity is not as specified, replace the relay.

## (Defogger Wires)

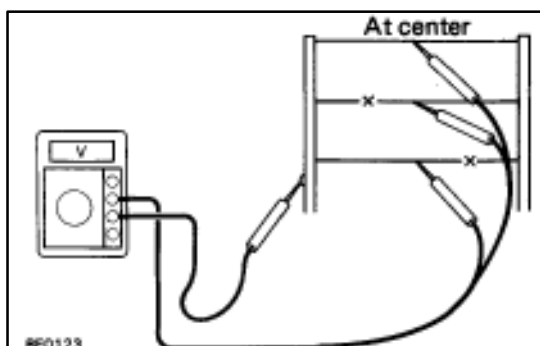
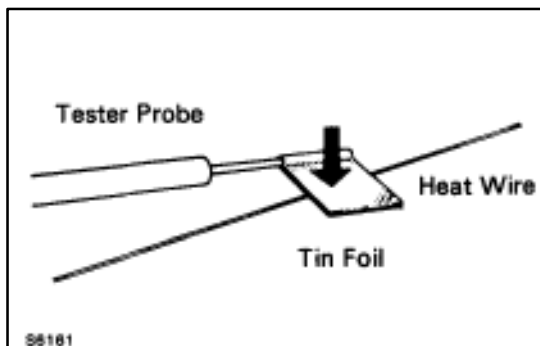
### INSPECTION AND REPAIR OF DEFOGGER WIRES

#### 1. INSPECT DEFOGGER WIRES

##### NOTICE:

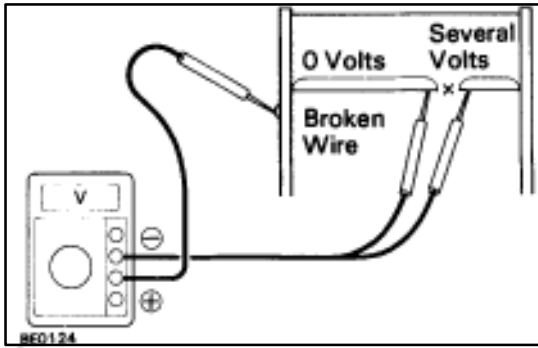
- When cleaning the glass, use a soft, dry cloth, and wipe the glass in the direction of the wire. Take care not to damage the wires.
- Do not use detergents or glass cleaners with abrasive ingredients.
- When measuring voltage, wind a piece of tin foil around the top of the negative probe and press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

- (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.



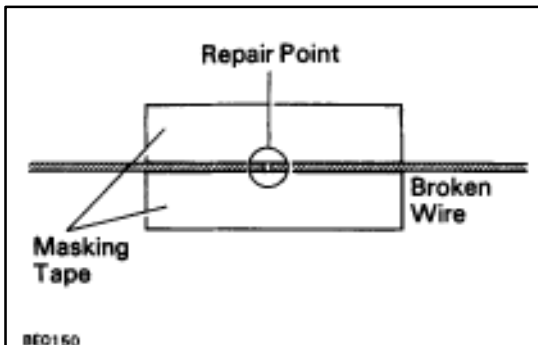
Voltage	Criteria
Approx. 5 V	Okay (No break in wire)
Approx. 10 V or 0 V	Broken wire

HINT: If there is approximately 10 volts, 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.



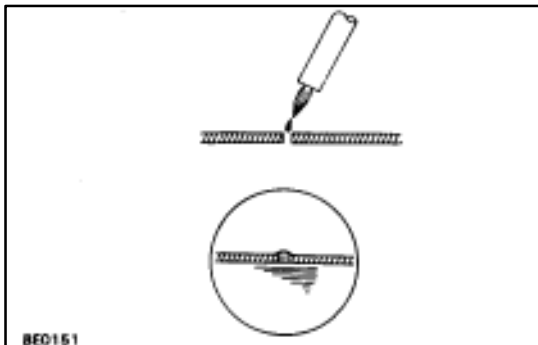
- (d) Place the voltmeter positive (+) lead against the defogger positive (+) terminal.
- (e) Place the voltmeter negative (–) lead with the foil strip against the heat wire at the positive (+) terminal end and slide it toward the negative (–) terminal end.
- (f) The point where the voltmeter deflects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



## 2. REPAIR DEFOGGER WIRES

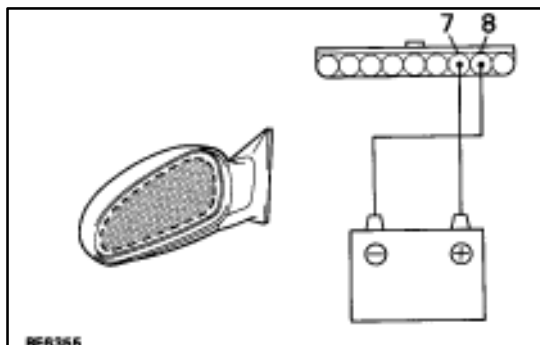
- (a) Clean the broken wire tips with a grease, wax and silicone remover.
- (b) Place the masking tape along both sides of the wire to be repaired.
- (c) Thoroughly mix the repair agent (Dupont paste No. 4817).
- (d) Using a fine tip brush, apply a small amount to the wire.
- (e) After a few minutes, remove the masking tape.
- (f) Allow the repair to stand at least 24 hours.



## (Mirror Defogger)

## REMOVAL AND INSTALLATION OF MIRROR ASSEMBLY

(See Outside Rear View Mirror on page [BO-42](#))



## INSPECTION OF MIRROR DEFOGGER

### INSPECT MIRROR DEFOGGER

(a) Connect the positive (+) lead from the battery to terminal 7 and the negative (–) lead to terminal 8.

(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.

## Troubleshooting

You will find the cause of trouble more easily using the table shown below. In this table, the number indicate the order priority of the causes in trouble. Check each part in the order shown. If necessary, replace the parts.

See page	BE-4, 20	BE-4, 20	BE-4, 22	BE-172	BE-173	-	BE-173	-	BE-174
Part name	HEATER Fuse	MIR-HTR Fuse	DEFOG Fuse	Defogger Swtich	Defogger Relay	Wire Harness	Defogger Wires	CKE Coil	Mirror Defogger
Trouble									
All defogger systems do no operate.	1		1	2	3	4			
Rear window defogger does not operate.						3	1	2	
Mirror defogger does not operate.		1				3			2