

Troubleshooting

Evaporator Temperature Sensor

The evaporator temperature sensor is a temperature dependent resistor (thermistor). The resistance of the thermistor decreases as the evaporator outlet air temperature increases. Use a digital multimeter (KS-AHM-32-003) to check it.

No cold air from blower.

Disconnect the 2-P connector from the evaporator temperature sensor.

Measure resistance between the 2 terminals in the temperature sensor half of the connector.

Is there 1.2–5.0 k Ω ?

NO

Replace evaporator temperature sensor.

YES

Turn the ignition switch ON.

Measure voltage between BRN wire (+) terminal in the other half of the connector and body ground.

Is there approx. 5 V?

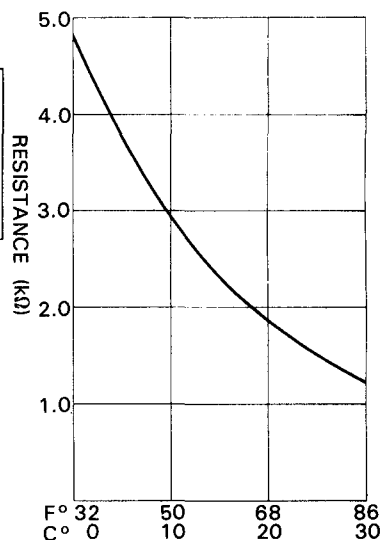
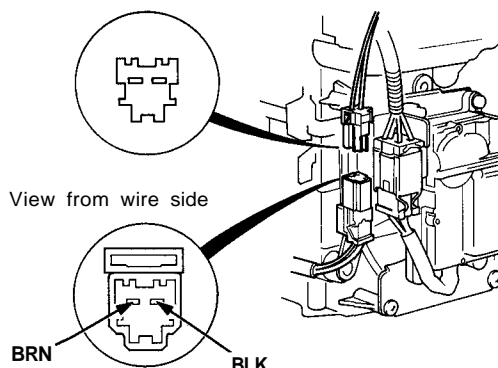
ON

Repair open circuit or short circuit to body ground in BRN wire between the control unit and evaporator temperature sensor. If wire is OK, substitute a known good control unit and retest.

YES

Measure voltage between BRN wire (+) terminal and BLK wire (-) terminal.

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CAUTION: The sensor uses a thermistor which can be damaged if high current is applied to it during testing. Therefore, use a circuit tester that puts out a measuring current of 1 mA or less. (At the 20 k Ω range.)



(From page 21-30)

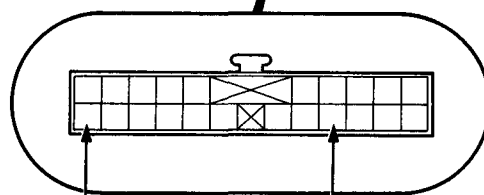
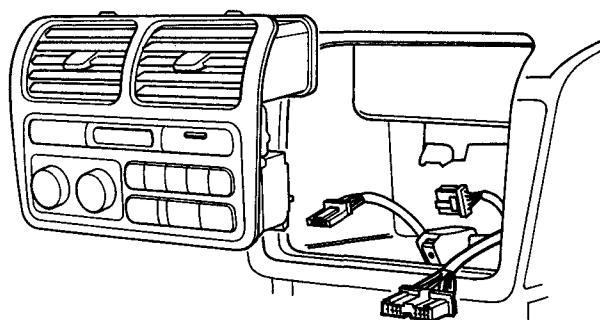
Is there approx. 5 V?

NO

Repair open in BLK (-) wire between control unit and evaporator temperature sensor.

YES

Remove the control unit. (page 21-13)
Substitute a known-good control unit and recheck. If symptom/indication goes away, replace the original control unit.



No.11 BRN

No. 19 (BLK)

View from wire side.