

Troubleshooting

Flowchart—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 cool air from blower.

Disconnect the 2P connector from the evaporator temperature sensor.

Measure resistance between the No. ① and No. ② terminals.

*Is the resistance within the range shown on the chart

NO

Replace the evaporator temperature sensor.

YES

Turn the ignition switch ON.

Measure voltage between the BRN wire terminal (+) and body ground (-).

Is there approx. 4 – 6 V?

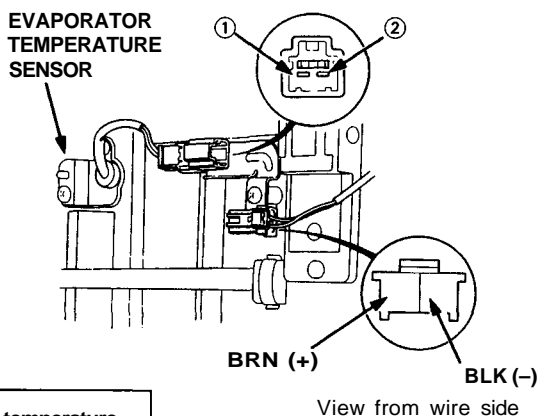
NO

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

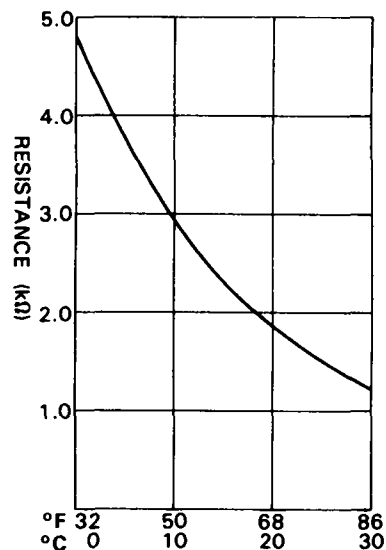
YES

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

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*: Dip the sensor in ice water and measure the resistance. Then pour hot water on the sensor and check for change in resistance.



CAUTION: The sensor uses a thermistor which can be damaged if a 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 kΩ range.)

