

# Troubleshooting

## Evaporator Temperature Sensor

Self-diagnosis indicator light E comes on: Indicates a problem in the evaporator sensor circuit. Use a digital multimeter (KS - AHM - 32 - 003) to check it.

The evaporator temperature sensor is a temperature dependent resistor (thermistor). The resistance of the thermistor decreases as the evaporator outlet air temperature increases.

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 side of the connector.

Is there approx. 1–5 k  $\Omega$  (page 21-65)

NO

Replace evaporator temperature sensor.

YES

Turn the ignition switch ON.

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

Is there approx. 5 V?

NO

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

YES

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

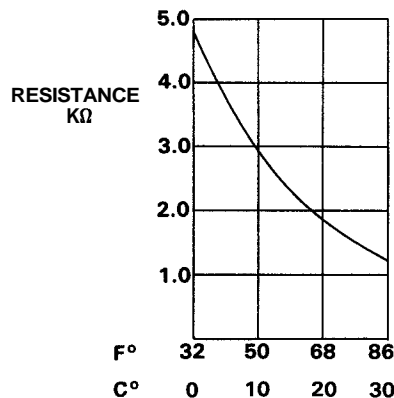
Is there approx. 5 V?

NO

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

YES

Remove the climate control unit (page 22-6). Substitute a known-good climate control unit and recheck. If symptom/indication goes away, replace the original climate control unit.



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 $\Omega$  ranged.)

