

Troubleshooting

Flowchart — Heater Core Temperature Sensor

The heater core temperature sensor is a temperature dependent resistor (thermistor). The resistance of the thermistor decreases as the engine coolant temperature increases. Use a digital multimeter (KS-AHM-32-003).

Self-diagnosis circuit check indicates a problem in the heater core temperature sensor.

Disconnect the 8P connector of the heater core temperature sensor.

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

*Is the resistance within the range shown on the chart?

NO

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

Replace the heater core temperature sensor.

YES

Turn the ignition switch ON.

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

Is there 4-6 V?

NO

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YES

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

Is there 4-6 V?

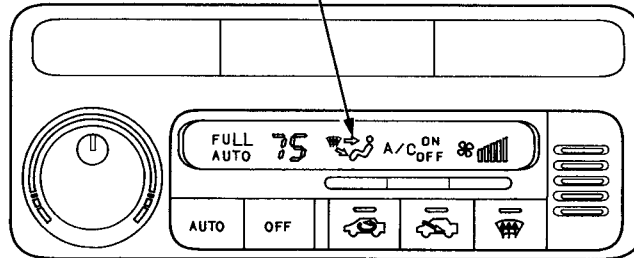
NO

Repair open in the BLK wire between the evaporator temperature sensor and the climate control unit.

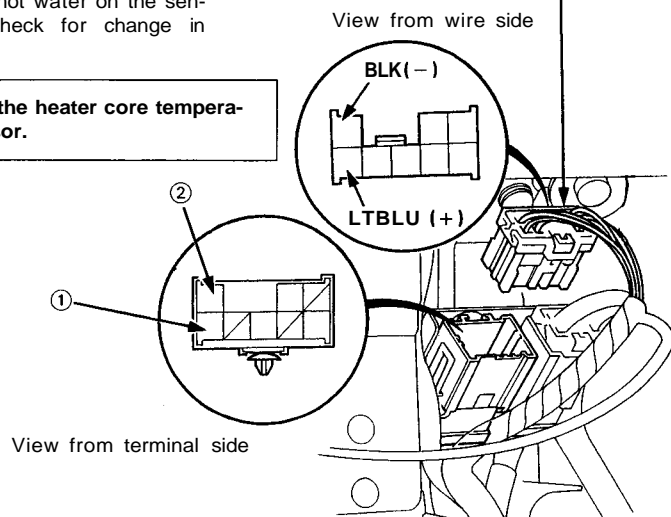
YES

Substitute a known-good climate control unit and recheck. If symptom/indication goes away, replace the original climate control unit.

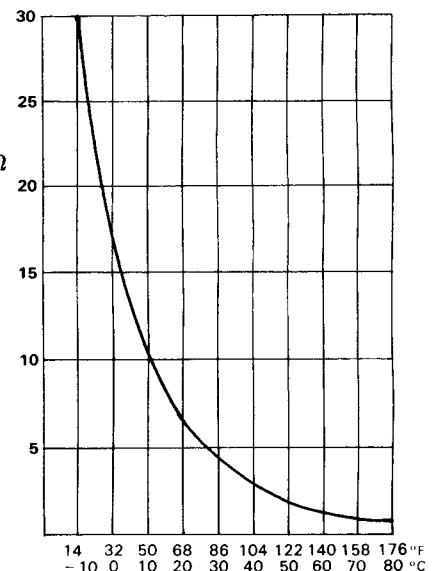
HEATER CORE TEMPERATURE SENSOR INDICATOR



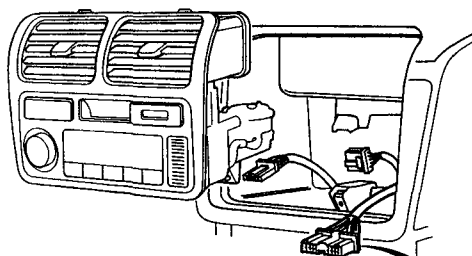
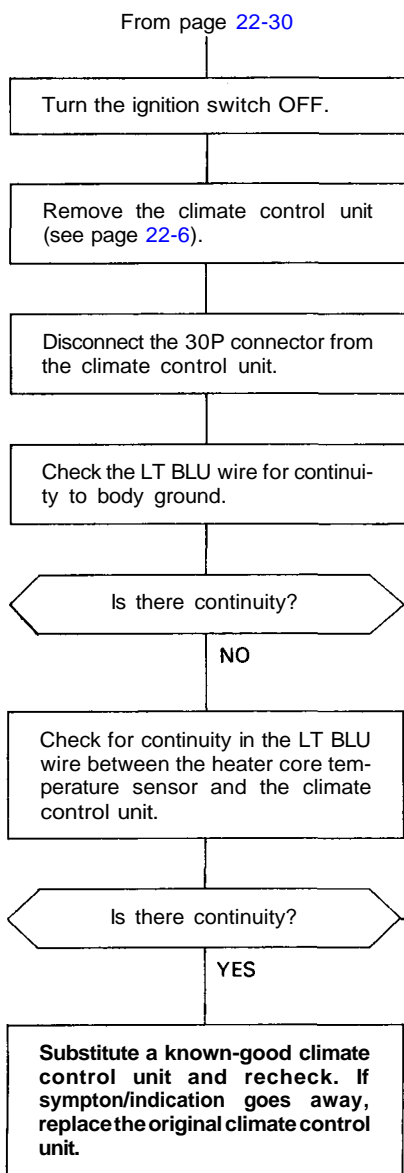
HEATER CORE TEMPERATURE SENSOR 8P CONNECTOR



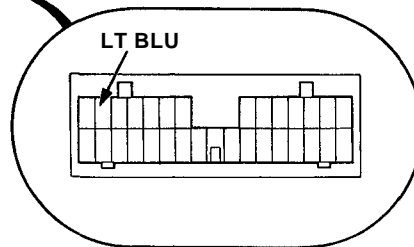
RESISTANCE kΩ



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 kΩ range.)



30P CONNECTOR



View from wire side

YES

Repair short in the LT BLU wire between the heater core temperature sensor and the climate control unit.

NO

Repair open in the LT BLU wire between the heater core temperature sensor and the climate control unit.