

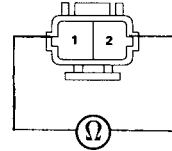
Troubleshooting

Outside Air Temperature Sensor

Self-diagnosis indicator light B comes on: A problem in the outside air temperature sensor circuit.

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

OUTSIDE AIR TEMPERATURE SENSOR



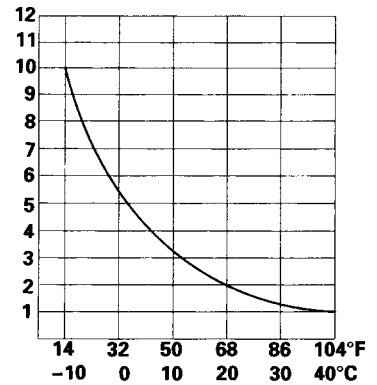
Terminal side of male terminals

Self-diagnosis circuit check indicates a problem in the outside air temperature sensor circuit.

Check the outside air temperature sensor:

1. Remove the outside air temperature sensor (see page [22-61](#)), and disconnect the 2P connector.
2. Measure the resistance between the No. 1 and No. 2 terminals of the outside air temperature sensor.

RESISTANCE
kΩ



* Dip the sensor in ice water, and measure 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 high current is applied during testing. Therefore, use a circuit tester with an output of 1 mA or less at the 20 kΩ range.

* Is the resistance within the specifications shown on the graph.

NO

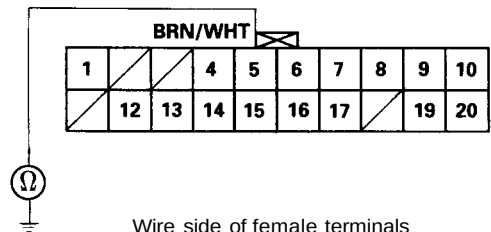
Replace the outside air temperature sensor.

YES

Check for a short in the wire:

1. Remove the climate control unit (see page [22-55](#)), and disconnect the 8P and 20P connectors.
2. Measure the resistance between the No. 5 terminal of the 20P connector and body ground.

CLIMATE CONTROL UNIT 20P CONNECTOR



Wire side of female terminals

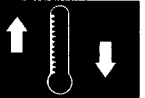
Is there more than 10 kΩ?

NO

Repair short in the wire between the climate control unit, the outside air temperature sensor and the gauge assembly, or check the gauge assembly (see [section 23](#)).

YES

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Check for an open in the wire:

Check for continuity between the No. 5 terminal of the climate control unit 20P connector and the No. 2 terminal of the outside air temperature sensor 2P connector.

Is there continuity?

NO

Repair open in the wire between the climate control unit and the outside air temperature sensor.

YES

Check for an open in the wire:

Check for continuity between the No. 2 terminal of the climate control unit 8P connector and the No. 1 terminal of the outside air temperature sensor 2P connector.

Is there continuity?

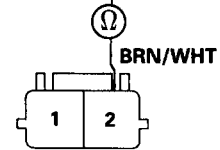
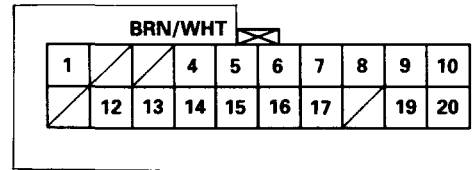
NO

Repair open in the wire between the climate control unit and the outside air temperature sensor.

YES

Check for loose wires or poor connections at the climate control unit 8P and 20P connectors and at the outside air temperature sensor 2P connector. If the connections are good, substitute a known-good climate control unit, and recheck. If the symptom/indication goes away, replace the original climate control unit.

CLIMATE CONTROL UNIT 20P CONNECTOR
Wire side of female terminals



OUTSIDE AIR TEMPERATURE SENSOR 2P CONNECTOR
Wire side of female terminals

CLIMATE CONTROL UNIT 8P CONNECTOR
Wire side of female terminals

