

Troubleshooting

Sunlight Sensor

Self-diagnosis indicator light C comes on: A problem in the sunlight sensor circuit.

The sunlight sensor is a light sensitive, variable resistance diode. The resistance of the diode increases as the intensity of the light increases.

Self-diagnosis circuit check indicates a problem in the sunlight sensor circuit.

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. Remove the sunlight sensor (see page 22-62), and disconnect the 2P connector.
3. Check for continuity between the No. 16 terminal of the 20P connector and body ground.

Is there continuity?

YES

Repair short in the wire between the climate control unit and the sunlight sensor.

NO

Check for an open in the wire:

Check for continuity between the No. 16 terminal of the climate control unit 20P connector and the No. 2 terminal of the sunlight sensor 2P connector.

Is there continuity?

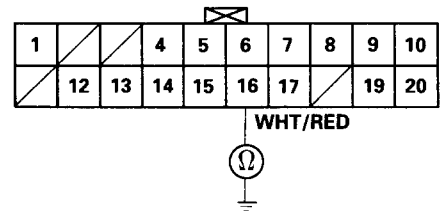
NO

Repair open in the wire between the climate control unit and the sunlight sensor.

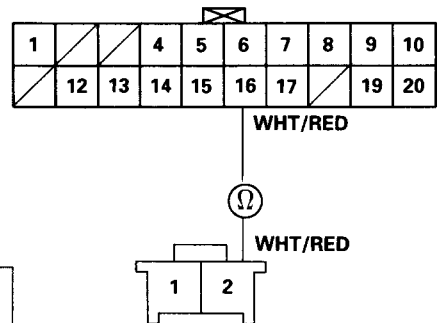
YES

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CLIMATE CONTROL UNIT 20P CONNECTOR

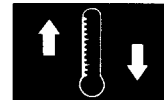


Wire side of female terminals



SUNLIGHT SENSOR 2P CONNECTOR

Wire side of female terminals



From page 22-20

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 sunlight sensor 2P connector.

Is there continuity?

NO

Repair open in the wire between the climate control unit and the sunlight sensor.

YES

Reconnect the 2P connector to the sunlight sensor, and test the sensor (see page 22-62).

Is the sunlight sensor OK?

NO

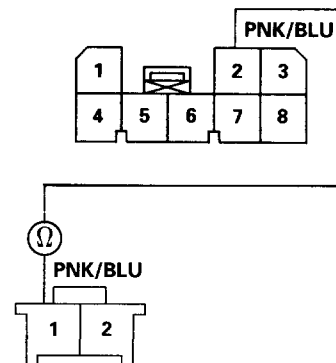
Replace the sunlight sensor.

YES

Check for loose wires or poor connections at the climate control unit 8P and 20P connectors and at the sunlight 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 8P CONNECTOR

Wire side of female terminals



SUNLIGHT SENSOR 2P CONNECTOR

Wire side of female terminals