



## Outside(Ambient)TemperatureSensor

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

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

**Problem in the outside temperature sensor circuit.**

Disconnect the 2-P connector from the outside temperature sensor behind the front grille.

Measure resistance between the 2 terminals in the outside temperature sensor side of the connector.

Is there approx. 0.8 – 10.0 k  $\Omega$ ?

NO

**Replace outside temperature sensor.**

YES

Turn the ignition switch ON.

Measure voltage between PNK wire (+) terminal and body ground.

Is there approx. 5 V?

NO

**Repair open circuit or short circuit to body ground in PNK wire between climate control unit and outside temperature sensor. If wire is OK, substitute a known good climate control unit and retest.**

YES

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

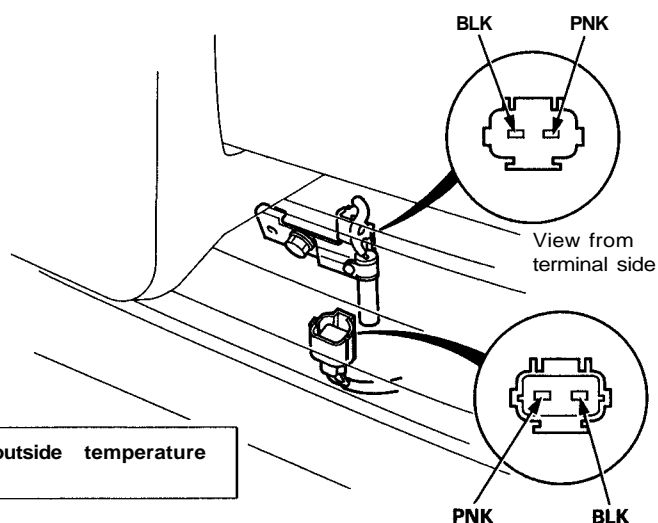
Is there approx. 5 V?

NO

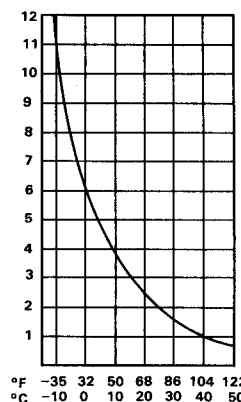
**Repair open in BLK wire between control unit and outside temperature sensor.**

YES

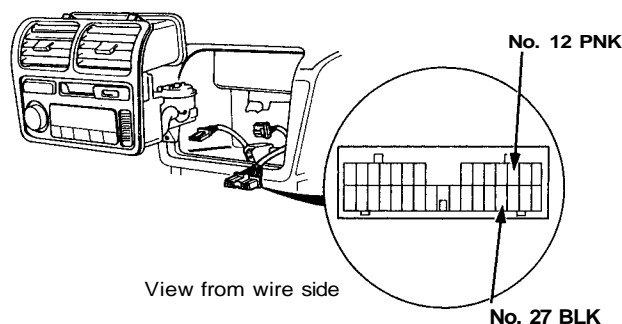
**Remove the climate control unit (page 22-6). Substitute a known-good climate control unit and recheck. If symptom/indication goes away, replace the original climate control unit.**



RESISTANCE (k $\Omega$ )



**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 20 k $\Omega$  range)



View from wire side