AMBIENT TEMPERATURE SENSOR

ON-VEHICLE INSPECTION

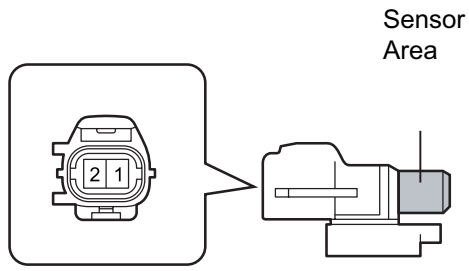
1. INSPECT A/C AMBIENT TEMPERATURE SENSOR

(a) Remove the A/C ambient temperature sensor.

(b) Disconnect the connector from A/C ambient temperature sensor.

(c) Measure the resistance according to the value(s) in the table below.

A/C Ambient Temperature Sensor Connector Front View:



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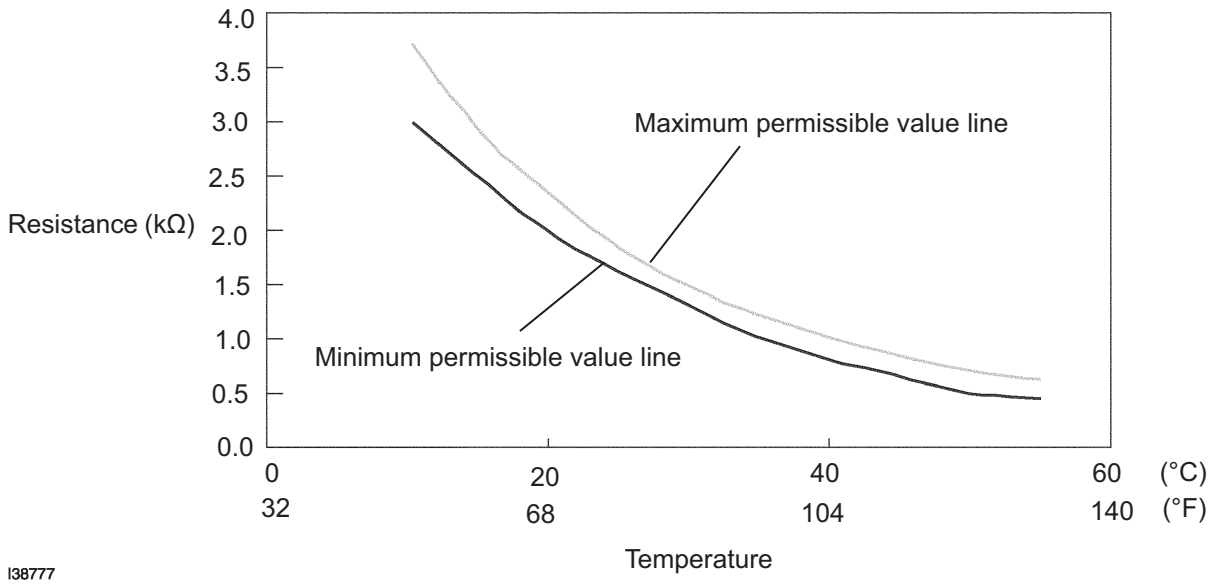

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Standard resistance

Tester connection	Condition	Specified condition
1 - 2	10°C (50°F)	3.00 to 3.73 kΩ
1 - 2	15°C (59°F)	2.45 to 2.88 kΩ
1 - 2	20°C (68°F)	1.95 to 2.30 kΩ
1 - 2	25°C (77°F)	1.60 to 1.80 kΩ
1 - 2	30°C (86°F)	1.28 to 1.47 kΩ
1 - 2	35°C (95°F)	1.00 to 1.22 kΩ

Tester connection	Condition	Specified condition
1 - 2	40°C (104°F)	0.80 to 1.00 kΩ
1 - 2	45°C (113°F)	0.65 to 0.85 kΩ
1 - 2	50°C (122°F)	0.50 to 0.70 kΩ
1 - 2	55°C (131°F)	0.44 to 0.60 kΩ
1 - 2	60°C (140°F)	0.36 to 0.50 kΩ

NOTICE:

- **Even slightly touching the sensor may change the resistance value. Be sure to hold the connector of the sensor.**
- **When measuring, the sensor temperature must be the same as the ambient temperature.**

HINT:

As the temperature increases, the resistance decreases (see the graph).