INTAKE AIR TEMPERATURE (IAT) SENSOR INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5]

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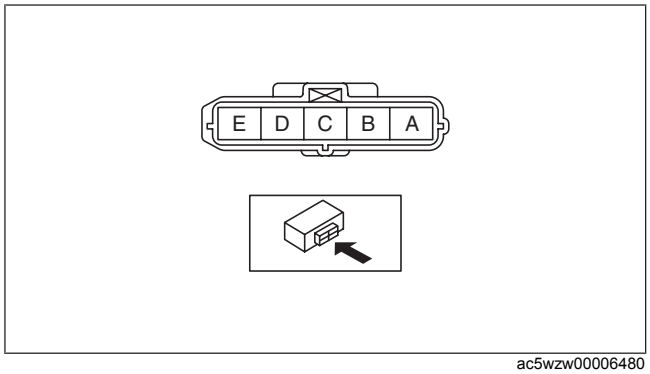
IAT Sensor No.1
Resistance inspection

Note
- Because the IAT sensor No.1 is integrated in the MAF sensor, replacing the IAT sensor No.1 includes replacement of the MAF sensor/IAT sensor No.1.

1. Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].)
2. Disconnect the MAF sensor/IAT sensor No.1 connector.
3. Measure the resistance between MAF sensor/IAT sensor No.1 terminals A and B.
   - If not as specified, replace the MAF sensor/IAT sensor No.1. (See MASS AIR FLOW (MAF) SENSOR/INTAKE AIR TEMPERATURE (IAT) SENSOR NO.1 REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)



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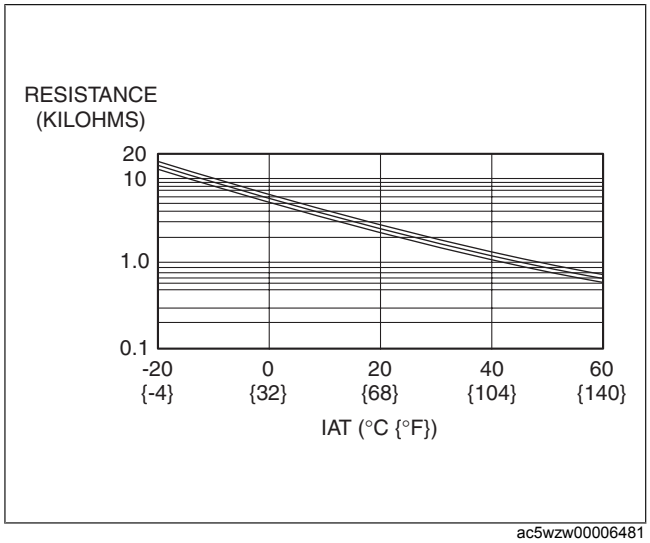
Specification

IAT (°C {°F})	Resistance (Kilohms)
−20 {−4}	13.7—16.6
20 {68}	2.49—2.79
60 {140}	0.622—0.703



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IAT Sensor No.2
Resistance inspection

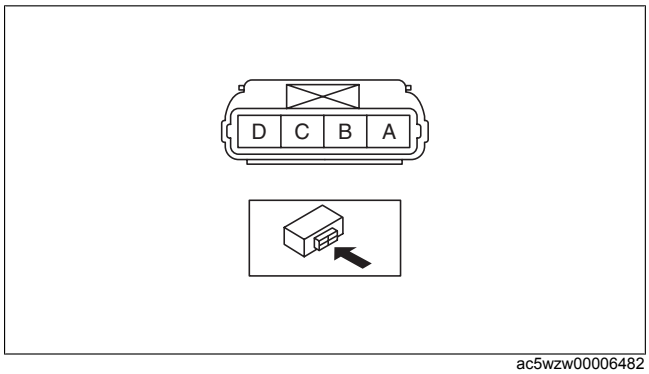
Note
- Because the IAT sensor No.2 is integrated in the MAP sensor, replacing the IAT sensor No.2 includes replacement of the MAP sensor/IAT sensor No.2.

1. Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].)
2. Disconnect the MAP sensor/IAT sensor No.2 connector.
3. Remove the MAP sensor/IAT sensor No.2. (See MANIFOLD ABSOLUTE PRESSURE (MAP) SENSOR/INTAKE AIR TEMPERATURE (IAT) SENSOR NO.2 REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)

4. Measure the resistance between MAP sensor/IAT sensor No.2 terminals A and B.
   - If not as specified, replace the MAP sensor/IAT sensor No.2. (See MANIFOLD ABSOLUTE PRESSURE (MAP) SENSOR/INTAKE AIR TEMPERATURE (IAT) SENSOR NO.2 REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)

Specification

IAT (°C {°F})	Resistance (Kilohms)
0 {32}	Approx. 5.9
20 {68}	2.375—2.625
80 {176}	Approx. 0.323
130 {266}	Approx. 0.0893



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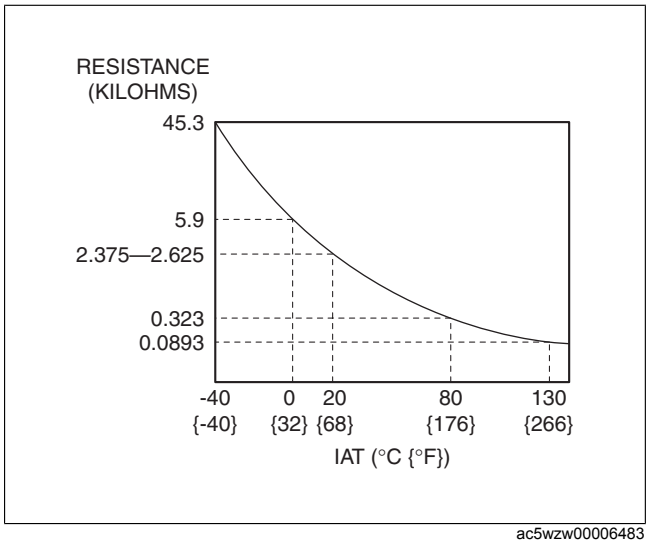

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