

INTAKE AIR TEMPERATURE (IAT) SENSOR INSPECTION [SKYACTIV-D 2.2]

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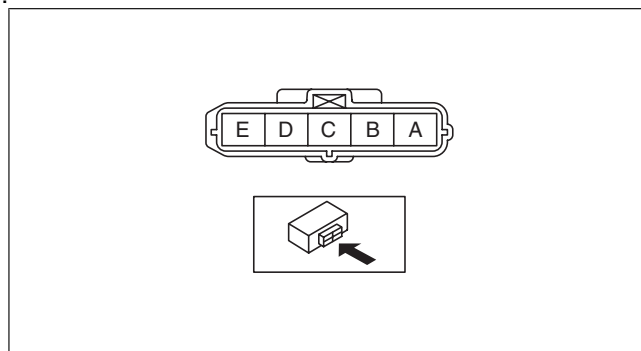
IAT Sensor No.1

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.

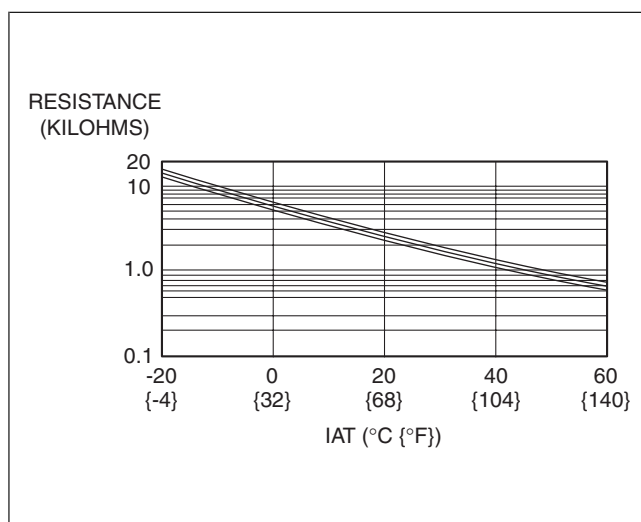
1. Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)
2. Disconnect the MAF sensor/IAT sensor No.1 connector.
3. Measure the resistance between MAF sensor/IAT sensor No.1 terminals A and B.
 - If not as specified, replace the MAF sensor/IAT sensor No.1. (See MASS AIR FLOW (MAF) SENSOR/INTAKE AIR TEMPERATURE (IAT) SENSOR NO.1 REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)



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Specification (Reference)

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



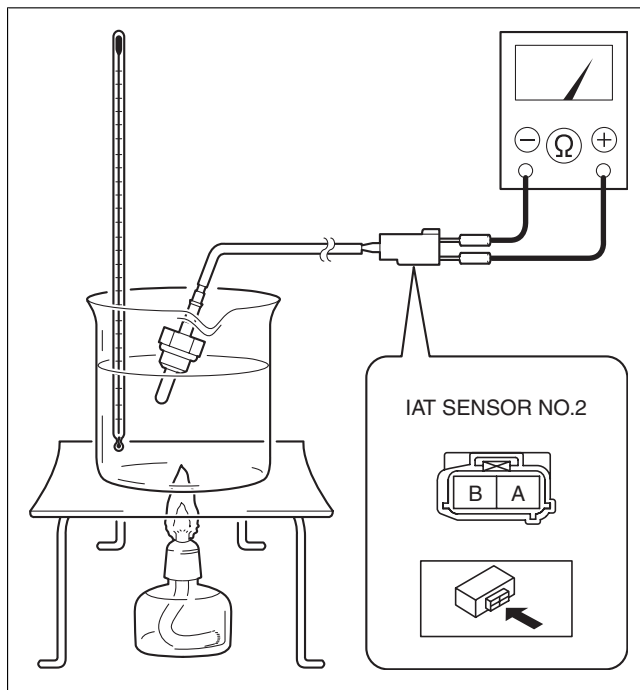
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IAT Sensor No.2

Resistance inspection

1. Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)
2. Remove the engine cover. (See ENGINE COVER REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
3. Disconnect the IAT sensor No.2 connector.
4. Remove the IAT sensor No.2. (See INTAKE AIR TEMPERATURE (IAT) SENSOR NO.2 REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)

5. Place the IAT sensor No.2 in water with a thermometer, and heat the water gradually.

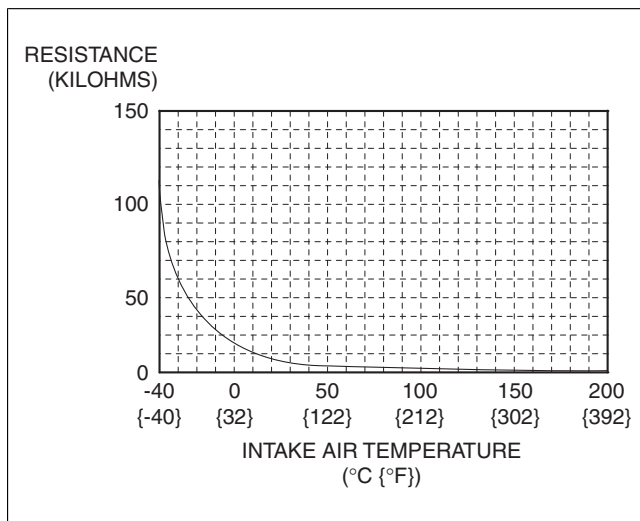


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6. Measure the resistance between IAT sensor No.2 terminals A and B.
 - If not as specified, replace the IAT sensor No.2. (See INTAKE AIR TEMPERATURE (IAT) SENSOR NO.2 REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)

Specification (Reference)

| Water temperature (°C {°F}) | Resistance (Kilohms) |
|-----------------------------|----------------------|
| 0 {32} | Approx. 15.00 |
| 50 {122} | Approx. 2.20 |
| 100 {212} | Approx. 0.508 |



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