

## ENGINE COOLANT TEMPERATURE (ECT) SENSOR INSPECTION [SKYACTIV-D 2.2]

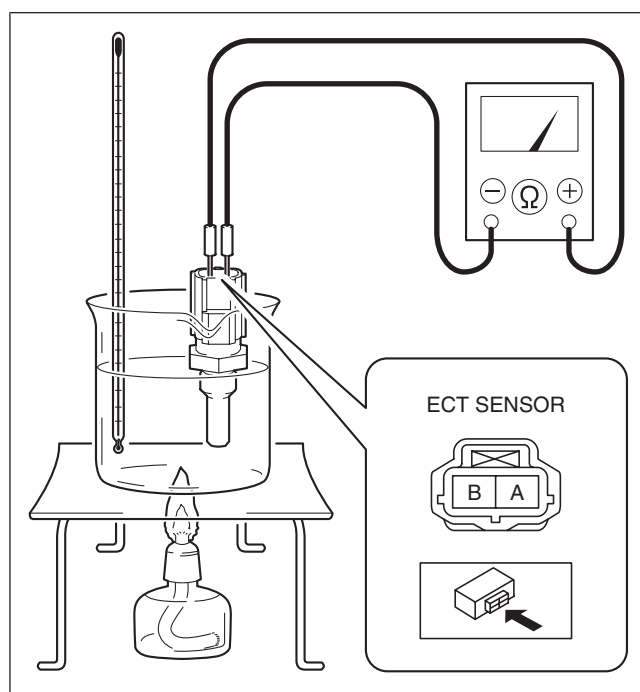
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### Resistance Inspection

#### Warning

- A hot engine can cause severe burns. Turn off the engine and wait until it is cool before removing the ECT sensor.

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. Remove the drive belt. (See DRIVE BELT REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
4. Remove the drive belt auto tensioner. (See TIMING CHAIN REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
5. Remove the bolt, nuts and engine cover adapter. (See ENGINE COOLANT TEMPERATURE (ECT) SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
6. Set the wiring harness aside. (See ENGINE COOLANT TEMPERATURE (ECT) SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
7. Drain the engine coolant. (See ENGINE COOLANT REPLACEMENT [SKYACTIV-D 2.2].)
8. Disconnect the ECT sensor connector.
9. Remove the ECT sensor. (See ENGINE COOLANT TEMPERATURE (ECT) SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
10. Place the ECT sensor in water with a thermometer, and heat the water gradually.



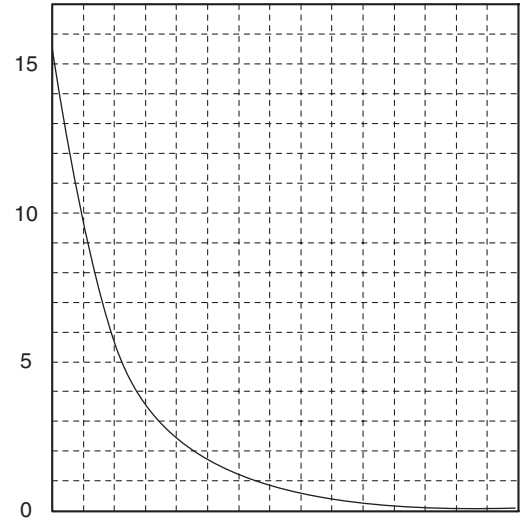
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11. Measure the resistance between ECT sensor terminals A and B.
  - If not as specified, replace the ECT sensor. (See ENGINE COOLANT TEMPERATURE (ECT) SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)

#### Specification (Reference)

ECT (°C {°F})	Resistance (Kilohms)
20 {68}	Approx. 2.45
80 {176}	Approx. 0.318

RESISTANCE  
(KILOHMS)



-20 { -4 } 0 { 32 } 20 { 68 } 40 { 104 } 60 { 140 } 80 { 176 } 100 { 212 } 120 { 248 }

ENGINE COOLANT TEMPERATURE (°C {°F})

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