

## EXHAUST GAS TEMPERATURE SENSOR INSPECTION [SKYACTIV-D 2.2]

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### Exhaust Gas Temperature Sensor No.1

#### Warning

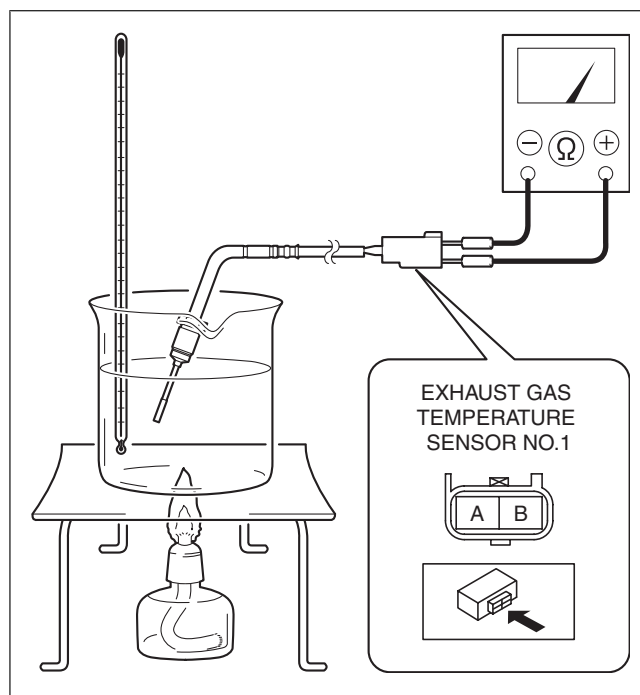
- A hot engine and exhaust system can cause severe burns. Turn off the engine and wait until they are cool before removing the exhaust system.

#### Caution

- Perform exhaust gas temperature sensor removal/installation only when inspection or replacement is required, such as when DTCs for the sensor are displayed, because it may cause exhaust gas leaks.
- If removal or installation/removal is performed, always verify that there is no exhaust gas leak after reinstallation.

#### Resistance inspection

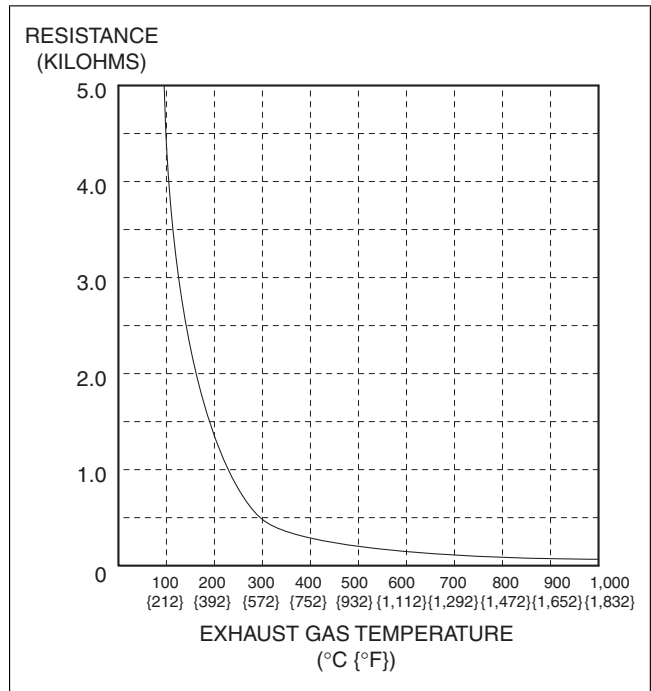
1. Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)
2. Remove the battery. (See BATTERY REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
3. Remove the air pipe and air hose. (See INTAKE-AIR SYSTEM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
4. Disconnect the exhaust gas temperature sensor No.1 connector.
5. Remove the exhaust gas temperature sensor No.1. (See EXHAUST GAS TEMPERATURE SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
6. Place the exhaust gas temperature sensor No.1 in water with a thermometer, and heat the water gradually.



7. Measure the resistance between exhaust gas temperature sensor No.1 terminals A and B.
  - If not as specified, replace the exhaust gas temperature sensor No.1. (See EXHAUST GAS TEMPERATURE SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)

#### Specification (Reference)

| Water temperature (°C {°F}) | Resistance (Kilohms) |
|-----------------------------|----------------------|
| 100 {212}                   | Approx. 4.51         |



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## Exhaust Gas Temperature Sensor No.2

### Warning

- A hot engine and exhaust system can cause severe burns. Turn off the engine and wait until they are cool before removing the exhaust system.

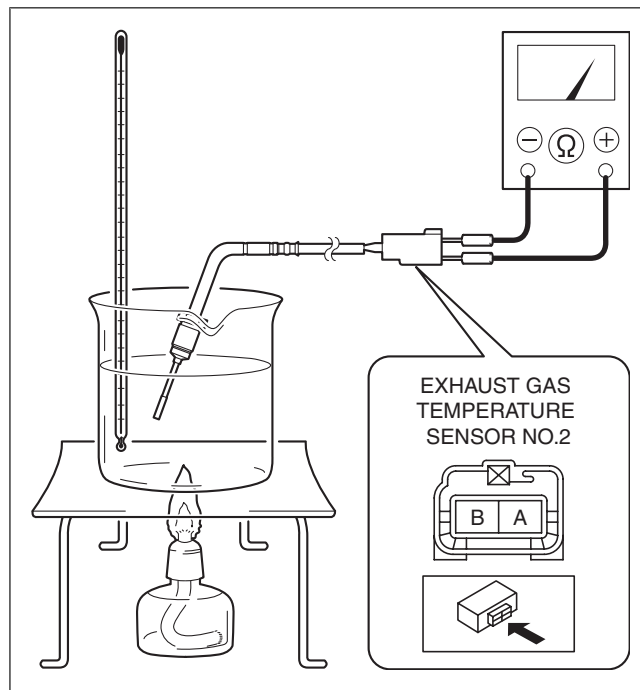
### Caution

- Perform exhaust gas temperature sensor removal/installation only when inspection or replacement is required, such as when DTCs for the sensor are displayed, because it may cause exhaust gas leaks.
- If removal or installation/removal is performed, always verify that there is no exhaust gas leak after reinstallation.

### 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. Remove the insulator. (See TIMING CHAIN REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
4. Disconnect the exhaust gas temperature sensor No.2 connector.
5. Remove the exhaust gas temperature sensor No.2. (See EXHAUST GAS TEMPERATURE SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)

6. Place the exhaust gas temperature sensor No.2 in water with a thermometer, and heat the water gradually.

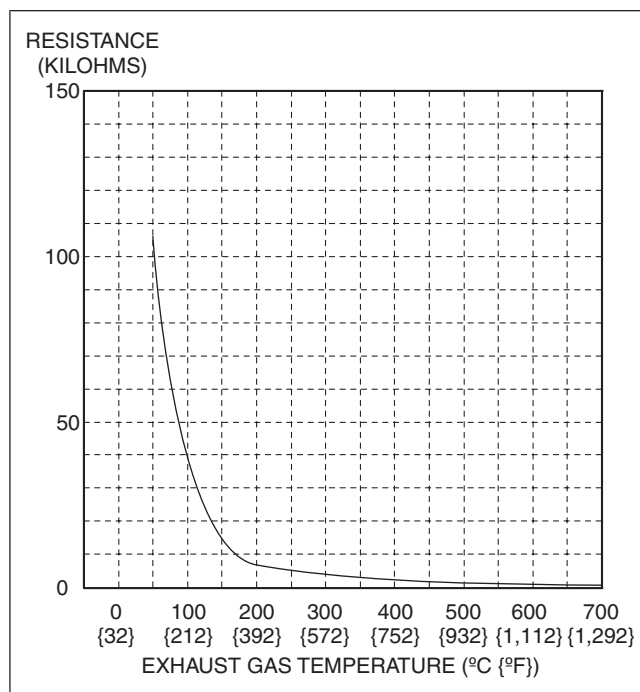


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7. Measure the resistance between exhaust gas temperature sensor No.2 terminals A and B.
  - If not as specified, replace the exhaust gas temperature sensor No.2. (See EXHAUST GAS TEMPERATURE SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)

#### Specification (Reference)

| Water temperature (°C {°F}) | Resistance (Kilohms) |
|-----------------------------|----------------------|
| 50 {122}                    | Approx. 106          |



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#### Exhaust Gas Temperature Sensor No.3

##### Warning

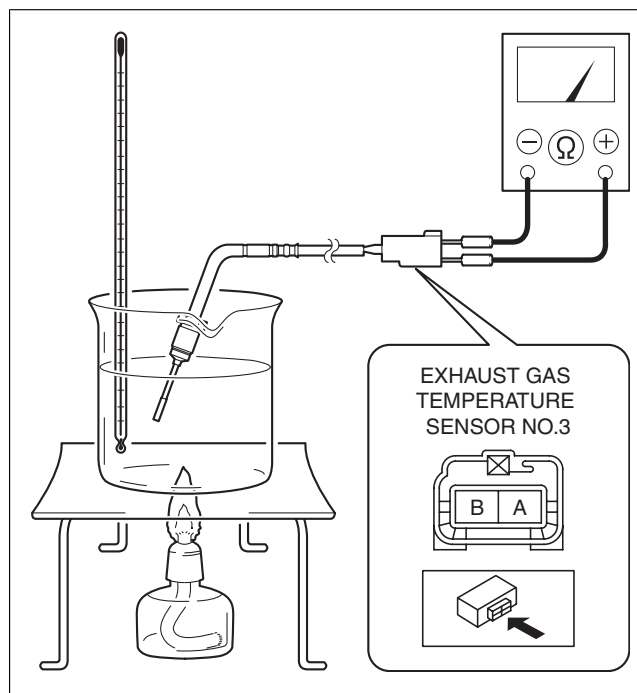
- A hot engine and exhaust system can cause severe burns. Turn off the engine and wait until they are cool before removing the exhaust system.

### Caution

- Do not allow flammable objects such as the taping for bundling wiring harness to come into contact with the catalytic converter.
- Perform exhaust gas temperature sensor removal/installation only when inspection or replacement is required, such as when DTCs for the sensor are displayed, because it may cause exhaust gas leaks.
- If removal or installation/removal is performed, always verify that there is no exhaust gas leak after reinstallation.

### Resistance inspection

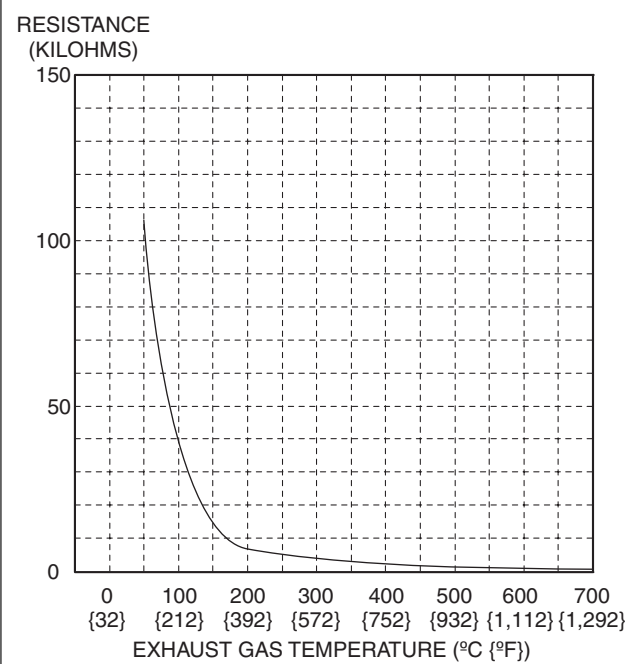
1. Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)
2. Lift up the vehicle.
3. Remove the following parts:
  - (1) Front under cover No.2 (See FRONT UNDER COVER No.2 REMOVAL/INSTALLATION.)
  - (2) Splash shield (See SPLASH SHIELD REMOVAL/INSTALLATION.)
  - (3) Seal rubber (No.1) and noise suppression cover (No.1) (See TIMING CHAIN REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
4. Disconnect the exhaust gas temperature sensor No.3 connector.
5. Remove the clip from the bracket. (See EXHAUST GAS TEMPERATURE SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
6. Remove the wiring harness from the wire clip A and B. (See EXHAUST GAS TEMPERATURE SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
7. Remove the exhaust gas temperature sensor No.3. (See EXHAUST GAS TEMPERATURE SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
8. Place the exhaust gas temperature sensor No.3 in water with a thermometer, and heat the water gradually.



9. Measure the resistance between exhaust gas temperature sensor No.3 terminals A and B.
  - If not as specified, replace the exhaust gas temperature sensor No.3. (See EXHAUST GAS TEMPERATURE SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)

### Specification (Reference)

| Water temperature (°C {°F}) | Resistance (Kilohms) |
|-----------------------------|----------------------|
| 50 {122}                    | Approx. 106          |



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