

EXHAUST GAS PRESSURE SENSOR INSPECTION [SKYACTIV-D 2.2]

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Exhaust Gas Pressure 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.

Visual inspection

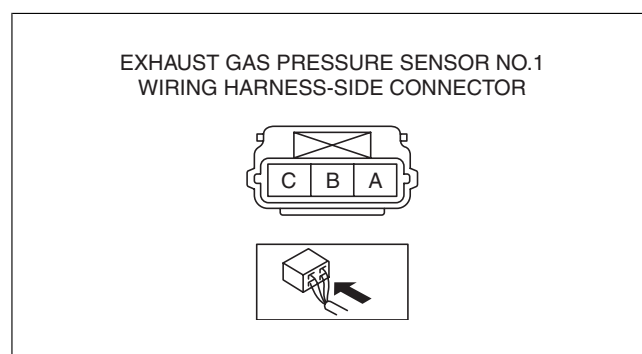
1. Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)
2. Remove the engine cover. (See ENGINE COVER REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
3. Remove the insulator. (See TIMING CHAIN REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
4. Disconnect the exhaust gas pressure sensor No.1 connector.
5. Remove the exhaust gas pressure sensor No.1. (See EXHAUST GAS PRESSURE SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
6. Visually inspect the exhaust gas pressure sensor No.1 for the following malfunction:
 - Damage, cracks, soiling
 - If there is any malfunction, repair or replace the exhaust gas pressure sensor No.1. (See EXHAUST GAS PRESSURE SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
7. Visually inspect the air hose for the following malfunction:
 - Air hose for improper routing, kinks or leakage
 - If there is any malfunction, repair or replace the malfunctioning part according to the inspection results.

Voltage inspection

1. Switch the ignition ON (engine off).
2. Measure the voltage at the exhaust gas pressure sensor No.1 terminal B.
 - If the voltage is within the specification, go to the next step.
 - If the voltage is not within the specification, replace the exhaust gas pressure sensor No.1. (See EXHAUST GAS PRESSURE SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)

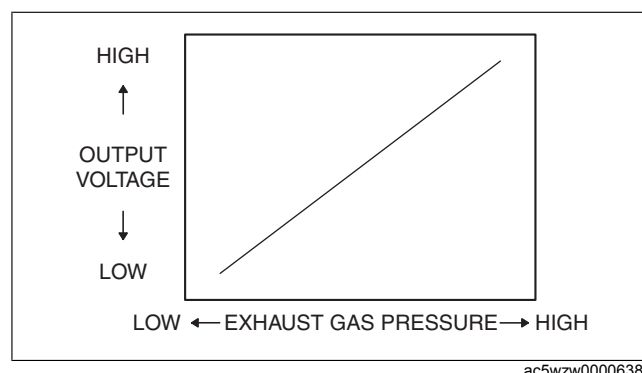
Specification

Approx. 0.95 V



3. Connect the M-MDS to the DLC-2.
4. Start the engine.
5. Access the PID/DATA monitor item EXHPRES1 using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].)
6. Measure the voltage at the exhaust gas pressure sensor No.1 terminal B when the EXHPRES1 PID increases.
 - If the voltage does not increase, replace the exhaust gas pressure sensor No.1. (See EXHAUST GAS PRESSURE SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)

Specification (Reference)



Exhaust Gas Pressure 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.

Visual inspection

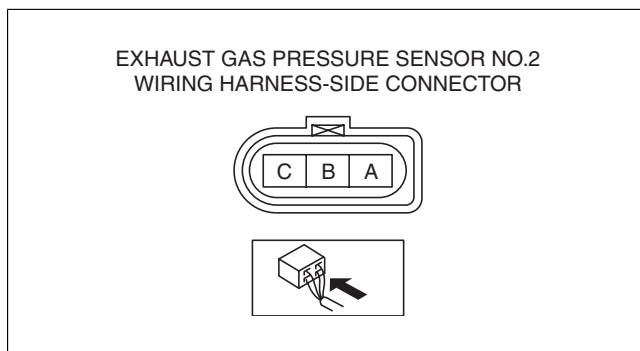
1. Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)
2. Remove the engine cover. (See ENGINE COVER REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
3. Remove the insulator. (See TIMING CHAIN REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
4. Disconnect the exhaust gas pressure sensor No.2 connector.
5. Remove the exhaust gas pressure sensor No.2. (See EXHAUST GAS PRESSURE SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
6. Visually inspect the exhaust gas pressure sensor No.2 for the following malfunction:
 - Damage, cracks, soiling
 - If there is any malfunction, repair or replace the exhaust gas pressure sensor No.2. (See EXHAUST GAS PRESSURE SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
7. Visually inspect the air hose for the following malfunction:
 - Air hose for improper routing, kinks or leakage
 - If there is any malfunction, repair or replace the malfunctioning part according to the inspection results.

Voltage inspection

1. Switch the ignition ON (engine off).
2. Measure the voltage at the exhaust gas pressure sensor No.2 terminal C.
 - If the voltage is within the specification, go to the next step.
 - If the voltage is not within the specification, replace the exhaust gas pressure sensor No.2. (See EXHAUST GAS PRESSURE SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)

Specification

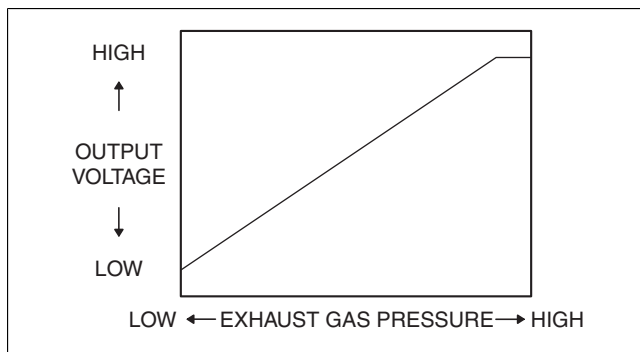
Approx. 0.5 V



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3. Start the engine.
4. Measure the voltage at the exhaust gas pressure sensor No.2 terminal C when the accelerator pedal is depressed.
 - If the voltage does not increase, replace the exhaust gas pressure sensor No.2. (See EXHAUST GAS PRESSURE SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)

Specification (Reference)



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