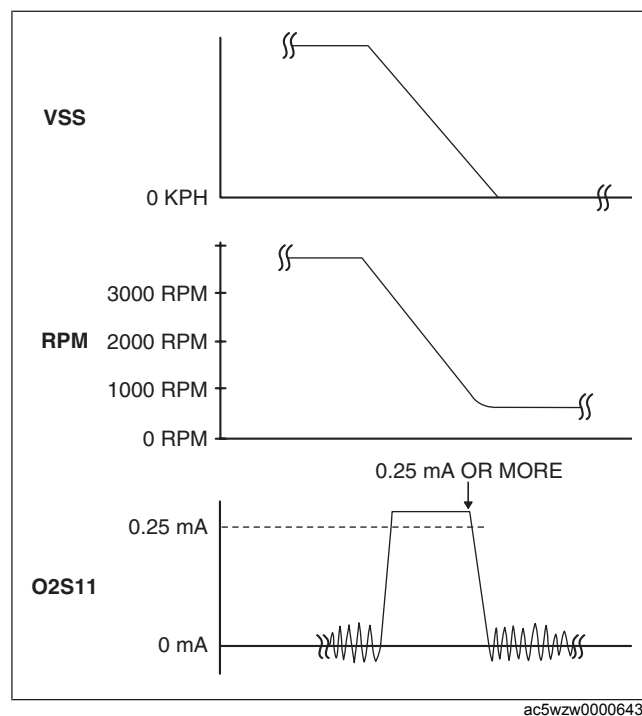


AIR FUEL RATIO (A/F) SENSOR INSPECTION [SKYACTIV-D 2.2]

id0140z7899600

A/F Sensor Inspection

1. Connect the M-MDS to the DLC-2.
2. Start the engine and warm it up completely.
3. Access the following PIDs using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].)
 - VSS (Vehicle speed)
 - RPM (Engine speed)
 - O2S11 (A/F sensor output current)
4. Drive the vehicle and decelerate the engine speed by releasing the accelerator pedal fully when the engine speed is **3,000 rpm or more**.
5. Verify that the A/F sensor output current (PID: O2S11) is **0.25 mA or more** while decelerating as shown in the figure.
 - If not as verified, replace the A/F sensor. (See AIR FUEL RATIO (A/F) SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)



A/F Sensor Heater Inspection

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.

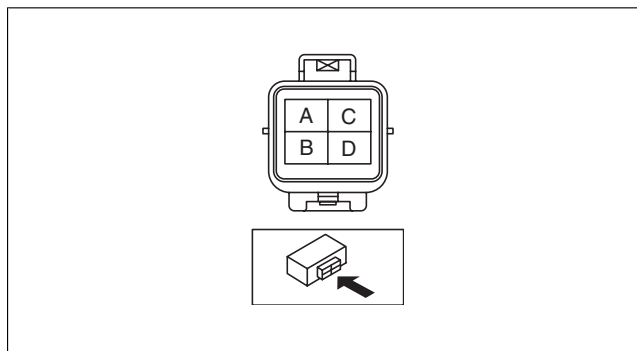
Caution

- Do not allow flammable objects such as the taping for bundling a wiring harness to come into contact with the catalytic converter.

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 (2WD) (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 A/F sensor connector.

5. Measure the resistance between A/F sensor terminals C and D.
- If not as specified, replace the A/F sensor. (See AIR FUEL RATIO (A/F) SENSOR REMOVAL/ INSTALLATION [SKYACTIV-D 2.2].)

A/F sensor heater resistance
1—10 ohms [normal temperature]



ac5wzw00006439