

REAR HEATED OXYGEN SENSOR (HO2S) INSPECTION [ZJ, Z6]

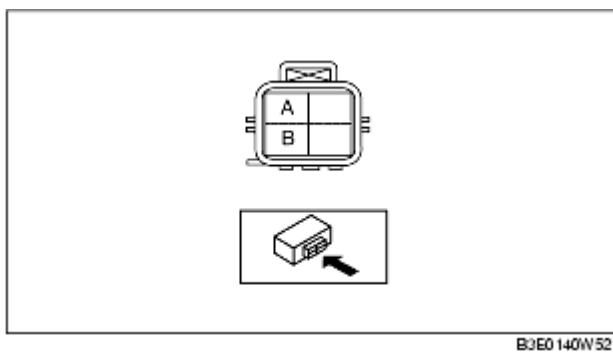
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Note

- Before performing the following inspection, make sure to follow the procedure as indicated in the troubleshooting flowchart. (See [Troubleshooting Procedure](#).)

Rear Heated Oxygen Sensor (HO2S) Voltage Inspection

1. Warm up the engine to normal operating temperature.
2. Disconnect the rear HO2S connector.
3. Connect the positive probe of the tester (digital type) to rear HO2S terminal A, and the negative probe to rear HO2S terminal B and measure the voltage.



4. Maintain the engine speed at **3,000 rpm** until the voltage indicates **approx. 0.5-0.7 V**.
5. Verify that the voltage is as indicated in the table when the engine is raced repeatedly.
 - If it cannot be verified, replace the rear HO2S. (See [REAR HEATED OXYGEN SENSOR \(HO2S\) REMOVAL/INSTALLATION \[ZJ, Z6\]](#).)
 - If the monitor item condition/specification (reference) is not within the specification, even though there is no malfunction, perform the "Circuit Open/Short Inspection".

Rear HO2S Voltage Inspection

Engine condition	Voltage (V)
Accelerated	0.5-1.0
Decelerated	0-0.5

Rear Heated Oxygen Sensor (HO2S) Circuit Open/Short Inspection

1. Remove the PCM connector cover.
2. Disconnect the PCM connector. (See [INTAKE-AIR SYSTEM REMOVAL/INSTALLATION \[ZJ, Z6\]](#).)
3. Inspect the following wiring harness for open or short circuit (continuity check).

Open circuit

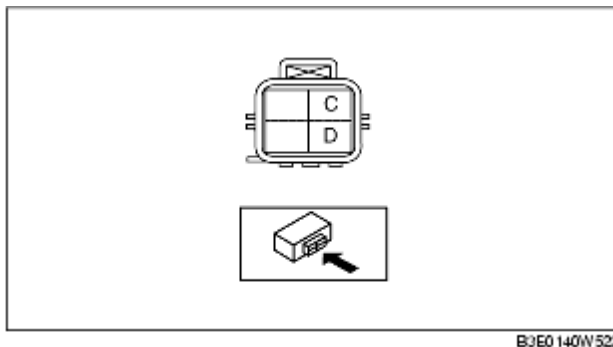
- If there is no continuity, there is an open circuit. Repair or replace the wiring harness.
- Rear HO2S terminal A and PCM terminal 2K
- Rear HO2S terminal B and PCM terminal 2AX

Short circuit

- If there is continuity, there is a short circuit. Repair or replace the wiring harness.
- Rear HO2S terminal A and power supply
- Rear HO2S terminal A and body GND
- Rear HO2S terminal B and power supply
- Rear HO2S terminal B and body GND

Rear Heated Oxygen Sensor (HO2S) Heater Resistance Inspection

1. Disconnect the rear HO2S connector.
2. Measure the resistance between rear HO2S terminals C and D.



- If not within the specification, replace the rear HO2S. (See [FRONT HEATED OXYGEN SENSOR \(HO2S\) REMOVAL/INSTALLATION \[ZJ, Z6\]](#).)
- If the monitor item condition/specification (reference) is not within the specification, even though there is no malfunction, perform the "Circuit Open/Short Inspection".

Rear HO2S heater resistance
14.1-18.9 ohms [20 °C {68 °F}]

Rear Heated Oxygen Sensor (HO2S) Heater Circuit Open/Short Inspection

1. Remove the PCM connector cover.
2. Disconnect the PCM connector. (See [INTAKE-AIR SYSTEM REMOVAL/INSTALLATION \[ZJ, Z6\]](#).)
3. Inspect the following wiring harness for open or short circuit (continuity check).

Open circuit

- If there is no continuity, there is an open circuit. Repair or replace the wiring harness.
- Rear HO2S terminal C and PCM terminal 2T
- Rear HO2S terminal D and PCM terminal 2AT

Short circuit

- If there is continuity, there is a short circuit. Repair or replace the wiring harness.
- Rear HO2S terminal C and body GND
- Rear HO2S terminal D and power supply
- Rear HO2S terminal D and body GND