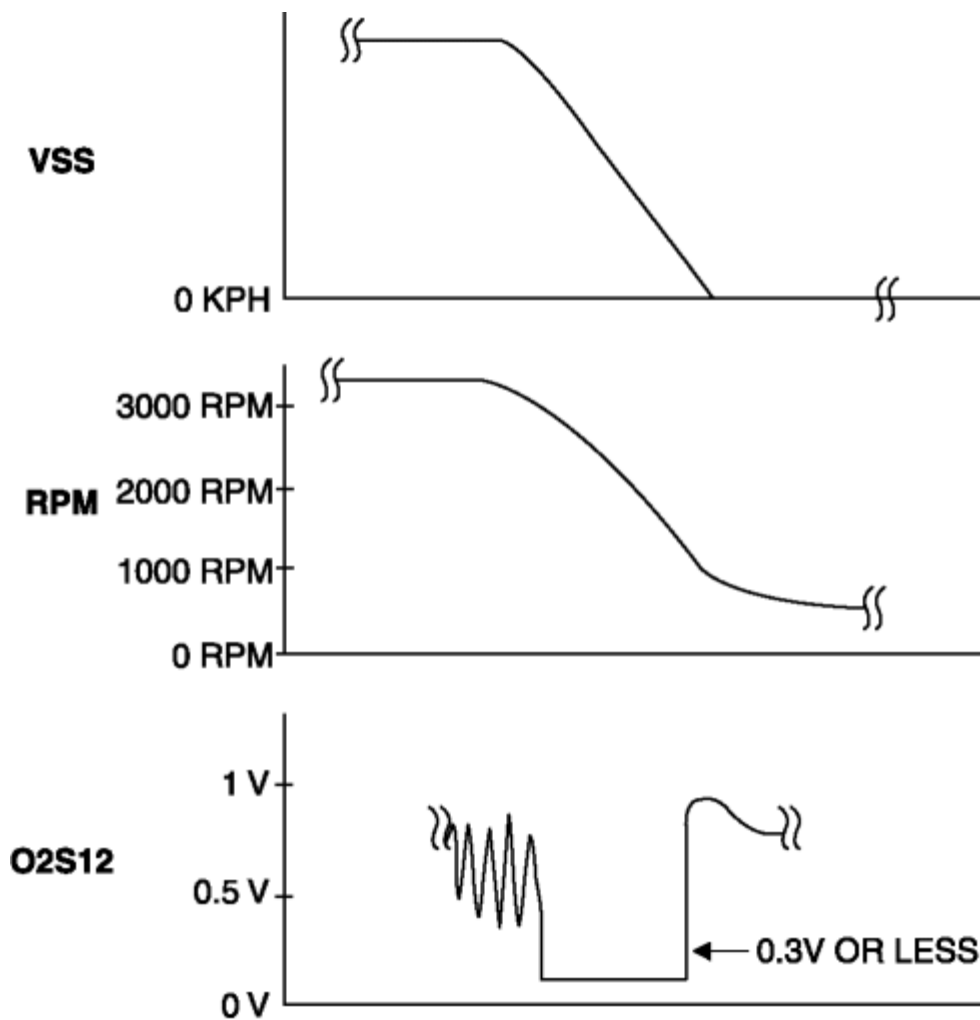


2012 - Mazda6 - Engine

HEATED OXYGEN SENSOR (HO2S) INSPECTION [MZR 2.5]

HO2S Inspection

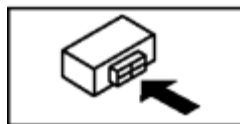
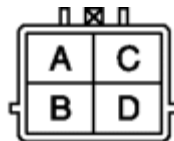
1. Warm up the engine to normal operating temperature.
2. Access the following PIDs using the M-MDS: (See [ON-BOARD DIAGNOSTIC TEST \[MZR 2.5\]](#).)
 - VSS (Vehicle speed)
 - RPM (Engine speed)
 - O2S12 (HO2S voltage)
3. Drive the vehicle and decelerate the engine speed by releasing the accelerator pedal fully when the engine speed is **3,000 rpm or more**.
4. Verify that the HO2S voltage (PID: O2S12) of **0.6 V or more**, one time or more, then verify that the HO2S voltage (PID: O2S12) is **0.3 V or less** while decelerating as shown in the figure.



- If not as specified, replace the HO2S. (See [HEATED OXYGEN SENSOR \(HO2S\) REMOVAL/ INSTALLATION \[MZR 2.5\]](#).)

HO2S Heater Inspection

1. Disconnect the negative battery cable. (See [BATTERY REMOVAL/ INSTALLATION \[MZR 2.5\]](#).)
2. Disconnect the HO2S connector.
3. Measure the HO2S resistance between terminals C and D.



- If not as specified, replace the HO2S. (See [HEATED OXYGEN SENSOR \(HO2S\) REMOVAL/ INSTALLATION \[MZR 2.5\]](#).)

HO2S heater resistance

- 2—50 ohms

[< Previous](#) [Next >](#)

[Back to Top](#)

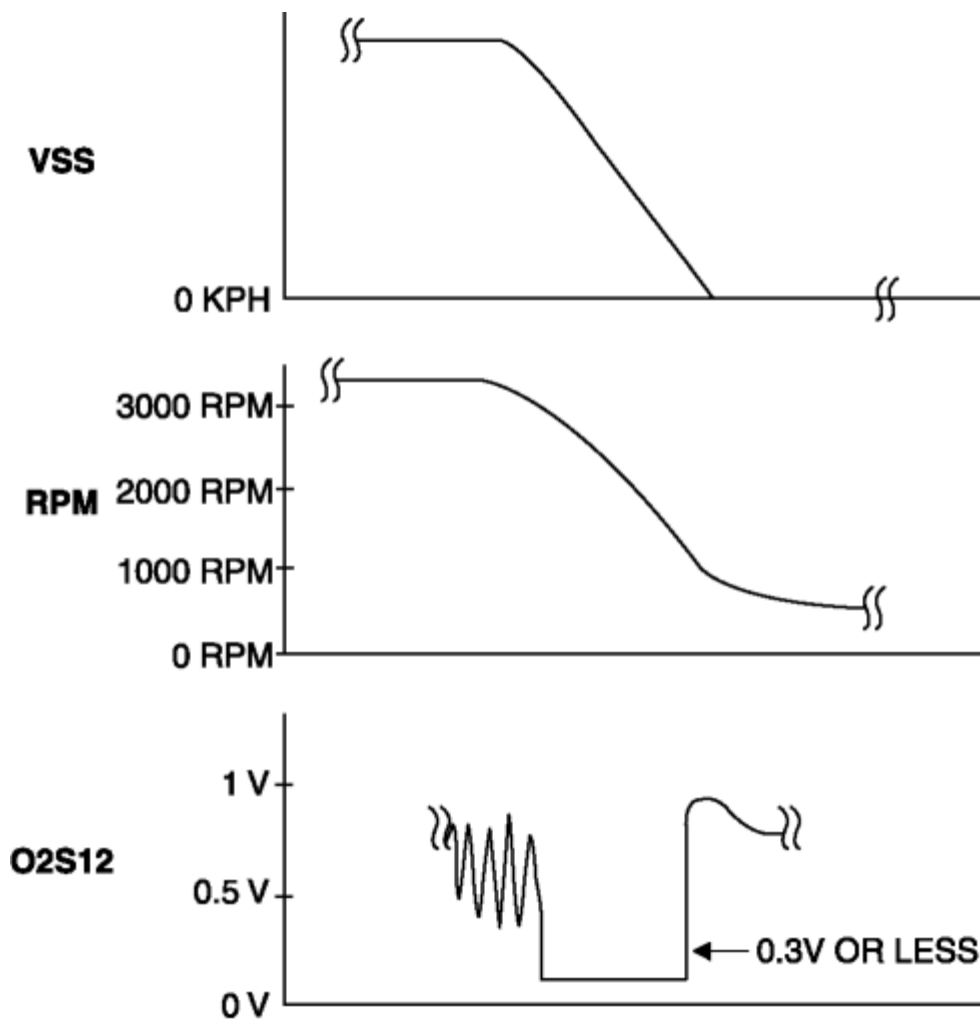
© 2011 Mazda North American Operations, U.S.A.

2012 - Mazda6 - Engine

HEATED OXYGEN SENSOR (HO2S) INSPECTION [MZR 2.5]

HO2S Inspection

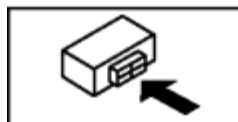
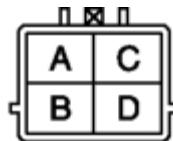
1. Warm up the engine to normal operating temperature.
2. Access the following PIDs using the M-MDS: (See [ON-BOARD DIAGNOSTIC TEST \[MZR 2.5\]](#).)
 - VSS (Vehicle speed)
 - RPM (Engine speed)
 - O2S12 (HO2S voltage)
3. Drive the vehicle and decelerate the engine speed by releasing the accelerator pedal fully when the engine speed is **3,000 rpm or more**.
4. Verify that the HO2S voltage (PID: O2S12) of **0.6 V or more**, one time or more, then verify that the HO2S voltage (PID: O2S12) is **0.3 V or less** while decelerating as shown in the figure.



- If not as specified, replace the HO2S. (See [HEATED OXYGEN SENSOR \(HO2S\) REMOVAL/ INSTALLATION \[MZR 2.5\]](#).)

HO2S Heater Inspection

1. Disconnect the negative battery cable. (See [BATTERY REMOVAL/ INSTALLATION \[MZR 2.5\]](#).)
2. Disconnect the HO2S connector.
3. Measure the HO2S resistance between terminals C and D.



- If not as specified, replace the HO2S. (See [HEATED OXYGEN SENSOR \(HO2S\) REMOVAL/ INSTALLATION \[MZR 2.5\]](#).)

HO2S heater resistance

- 2—50 ohms

[< Previous](#) [Next >](#)

[Back to Top](#)

© 2011 Mazda North American Operations, U.S.A.