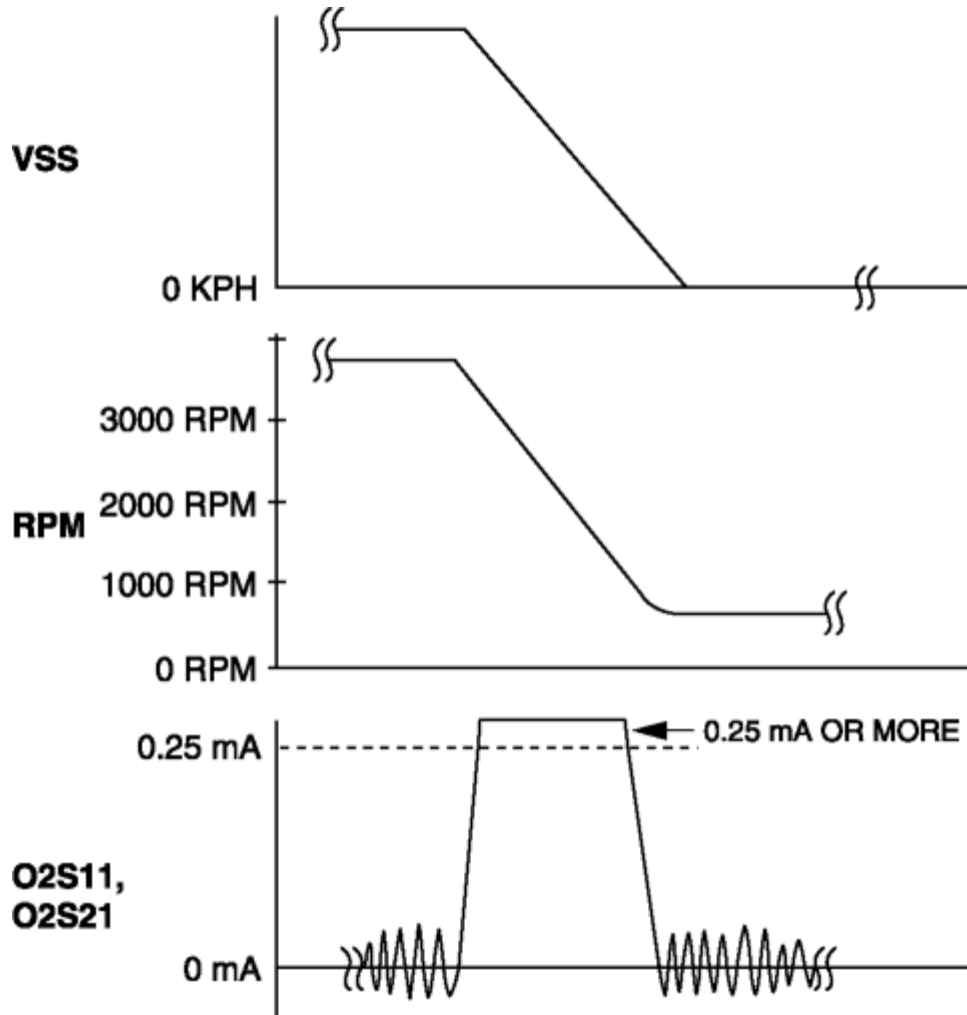


2012 - Mazda6 - Engine

AIR FUEL RATIO (A/ F) SENSOR INSPECTION [MZI 3.7 V6]

A/ F Sensor Inspection

1. Warm up the engine to normal operating temperature.
2. Drive the vehicle.
3. Release the accelerator pedal while the engine speed is at **3,000 rpm or more** and verify that the following monitor items fluctuate as shown in the figure while the vehicle decelerates. (See [ON-BOARD DIAGNOSTIC TEST \[MZI 3.7 V6\]](#).)

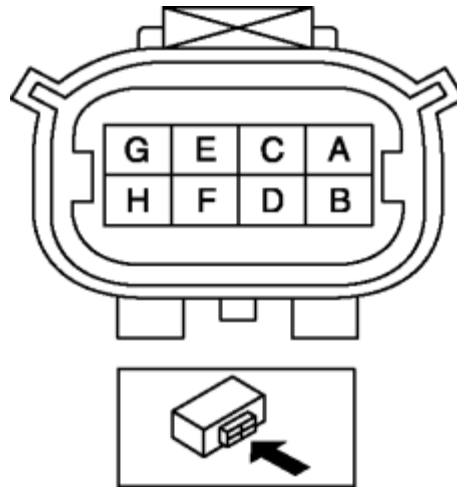


- VSS
- RPM
- O2S11, O2S21

- If not within the specification, replace the A/F sensor. (See [AIR FUEL RATIO \(A/ F\) SENSOR REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#) .)

A/ F Sensor Heater Inspection

1. Disconnect the negative battery cable. (See [BATTERY REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#) .)
2. Disconnect the A/F sensor connector.
3. Measure the resistance between A/F sensor terminals C and E.



- If it is not within the specification, replace the A/F sensor. (See [AIR FUEL RATIO \(A/ F\) SENSOR REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#) .)

A/ F sensor heater resistance

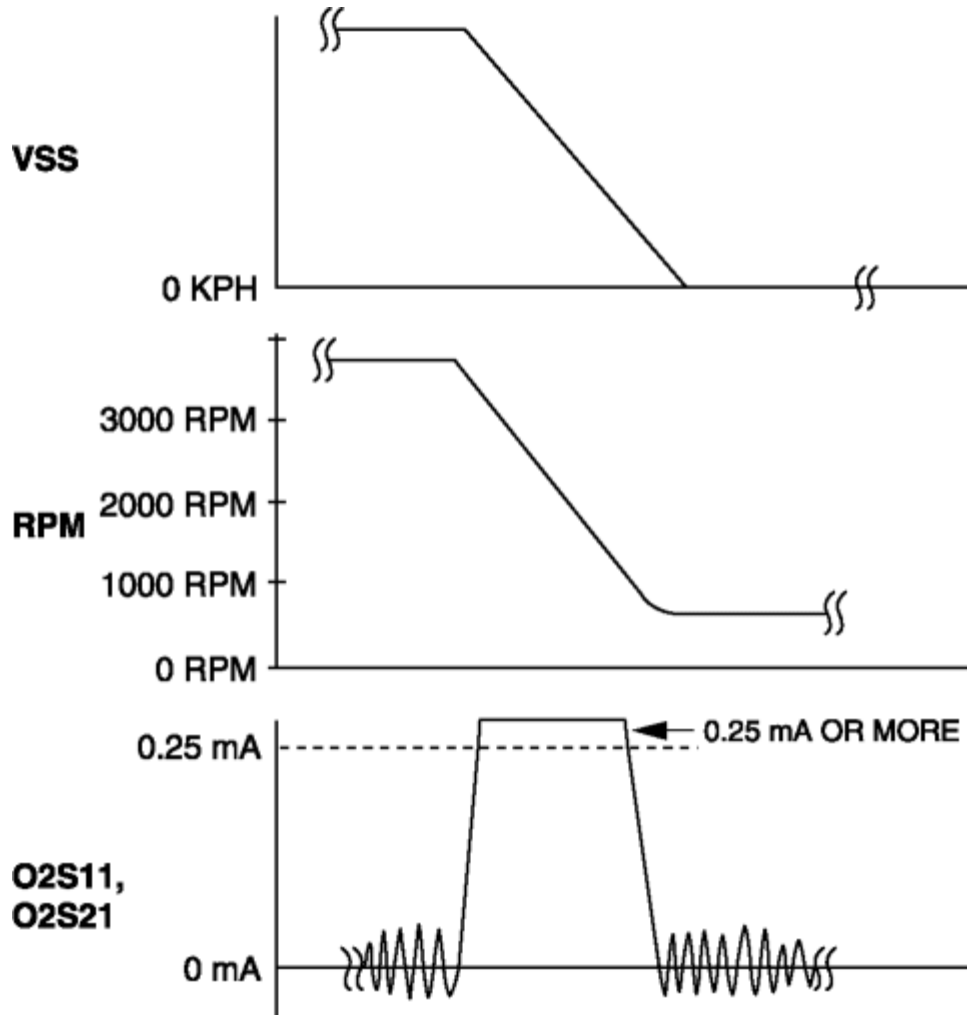
- 1—10 ohms

2012 - Mazda6 - Engine

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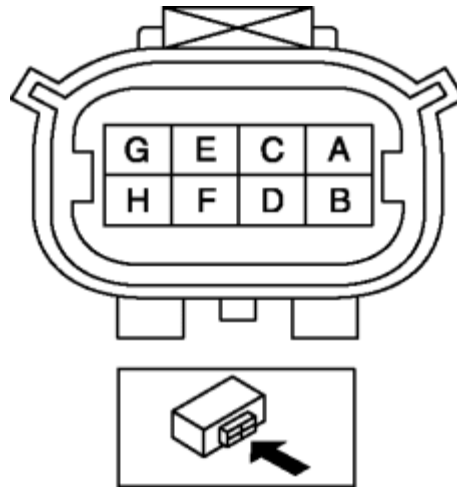


- VSS
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A/ F sensor heater resistance

- 1—10 ohms