

J : DTC P1646. BANK 1 HO2S.

J1 : CHECK THE CONSTANT CIRCUIT OF THE BANK 1 HO2S FOR OPEN CIRCUIT

1. Disconnect the bank 1 HO2S electrical connector PI10.
2. Disconnect the PCM electrical connector, PI01.
3. Measure the resistance between PI01, pin 84 (Y) and PI10, pin 4 (Y)

Is the resistance less than 5 ohms?

Yes

Goto **J2**

No

Repair the circuit. For additional information, refer to the wiring diagrams. CLEAR the DTCs. TEST the system for normal operation.

J2 : CHECK THE CONSTANT CIRCUIT OF THE BANK 1 HO2S FOR SHORT TO GROUND

1. Measure the resistance between PI10, pin 4 (Y) and GROUND.

Is the resistance less than 10,000 ohms?

Yes

Repair the short circuit. For additional information, refer to the wiring diagrams. CLEAR the DTCs. TEST the system for normal operation.

No

Goto **J3**

J3 : CHECK THE CONSTANT CIRCUIT OF THE BANK 1 HO2S FOR SHORT TO BATTERY

1. Connect the PCM electrical connector PI01.
2. Turn the ignition switch to the ON position.
3. Measure the voltage between PI10, pin 4 (Y) and GROUND.

Is the voltage greater than 5 volts?

Yes

Repair the short circuit. For additional information, refer to the wiring diagrams. CLEAR the DTCs. TEST the system for normal operation.

No

Goto **J4**

J4 : CHECK THE VARIABLE CIRCUIT OF THE BANK 1 HO2S FOR OPEN CIRCUIT

1. Disconnect the bank 1 HO2S electrical connector PI10.
2. Disconnect the PCM electrical connector, PI01.
3. Measure the resistance between PI01, pin 83 (R) and PI10, pin 3 (R)

Is the resistance less than 5 ohms?

Yes

Goto **J5**

No

Repair the circuit. For additional information, refer to the wiring diagrams. CLEAR the DTCs. TEST the system for normal operation.

J5 : CHECK THE VARIABLE CIRCUIT OF THE BANK 1 HO2S FOR SHORT TO GROUND

1. Measure the resistance between PI01, pin 83 (R) and GROUND.

Is the resistance less than 10,000 ohms?

Yes

Repair the short circuit. For additional information, refer to the wiring diagrams. CLEAR the DTCs. TEST the system for normal operation.

No

Goto **J6**

J6 : CHECK THE VARIABLE CIRCUIT OF THE BANK 1 HO2S FOR SHORT TO BATTERY

1. Connect the PCM electrical connector PI01.
2. Turn the ignition switch to the ON position.
3. Measure the voltage between PI10, pin 3 (R) and GROUND.

Is the voltage greater than 1 volt?

Yes

Repair the short circuit. For additional information, refer to the wiring diagrams. CLEAR the DTCs. TEST the system for normal operation.

No

Install a new bank 1 HO2S. CLEAR the DTCs. TEST the system for normal operation. If the DTC is repeated, INSTALL a new PCM.