

## **P04E4-CRANKCASE VENTILATION HOSE CONNECTION SENSOR CIRCUIT INTERMITTENT/ERRATIC**

For a complete wiring diagram, refer to the **Wiring Information**.

- **When Monitored:**

Ignition on and battery voltage above 10.4 Volts.

- **Set Condition:**

At key on, engine not running the Crankcase Hose Pressure Sensor Signal being sent to the Powertrain Control Module is higher or lower than a calibrated threshold. Or, during engine operation, the Crankcase Pressure Hose Sensor Signal is not changing with engine operating conditions.

Possible Causes
CRANKCASE HOSE PRESSURE SENSOR
POWERTRAIN CONTROL MODULE (PCM)

**Always perform the Pre-Diagnostic Troubleshooting procedure before proceeding. (Refer to 28 - DTC-Based Diagnostics/MODULE, Powertrain Control (PCM) - Standard Procedure).**

### **Diagnostic Test**

#### **1. DTC ACTIVE**

1. Turn the ignition on.
2. With the scan tool, record all Freeze frame data.
3. With the scan tool, erase DTCs.
4. Turn the ignition off for 75 seconds.
5. Start the engine and let idle for one minute.
6. With the scan tool, read DTCs.

#### **Did DTC P04E4 return?**

**Yes** • Go To [2](#)

**No** • Perform the INTERMITTENT CONDITION diagnostic procedure. (Refer to 28 - DTC-Based Diagnostics/MODULE, Powertrain Control (PCM) - Standard Procedure).

#### **2. OTHER DTCS**

1. With the scan tool, continue to read DTCs..

#### **Does the scan tool display DTC P04E2 or DTC P04E3 active?**

**Yes** • Perform the diagnostics and repairs for those active DTCs before proceeding with this diagnostic tree.

**No** • Go To [3](#)

### **3. CRANKCASE HOSE PRESSURE SENSOR**

1. Turn the ignition off for 75 seconds.
2. Turn the ignition on, engine not running.
3. Disconnect the Crankcase Hose Pressure Sensor.
4. With the scan tool, read DTCs.

#### **Does the scan tool display DTC P04E2 active?**

**Yes** • Replace the Crankcase Hose Pressure Sensor in accordance with the service information.  
• Perform the POWERTRAIN VERIFICATION TEST - 6.7L. (Refer to 28 - DTC-Based Diagnostics/MODULE, Powertrain Control (PCM) - Standard Procedure).

**No** • Replace the Powertrain Control Module in accordance with the service information.  
• Perform the POWERTRAIN VERIFICATION TEST - 6.7L. (Refer to 28 - DTC-Based Diagnostics/MODULE, Powertrain Control (PCM) - Standard Procedure).