P0562-BATTERY/SYSTEM VOLTAGE LOW

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

- **When Monitored:**

  With the key on or the engine running.
- **Set Condition:**

  The battery voltage detected by the Powertrain Control Module (PCM) is less than a calibrated value.

Possible Causes
BATTERY TERMINAL CONNECTIONS
ACCESSORY WIRING
BATTERY
HIGH RESISTANCE IN WIRE HARNESS
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).

1. CHECK THE BATTERY TERMINAL CONNECTIONS

NOTE: If DTCs P0622 or P2503 are present, repair those DTCs before continuing with this test.

1. Visually inspect the positive and negative connections at the batteries and inspect the battery negative connections at the engine block.

Are the connections free of corrosion and are they tight?

Yes
- Go To 2

No
- Repair the poor connections.
- Perform the POWERTRAIN VERIFICATION TEST - 6.7L. (Refer to 28 - DTC-Based Diagnostics/ MODULE, Powertrain Control (PCM) - Standard Procedure).

2. ACCESSORY WIRING

1. Check for add-on or accessory wiring at positive (+) terminal of the battery.

Are there any damaged wires at the battery?

Yes
- Repair accessory wiring.
- Perform the POWERTRAIN VERIFICATION TEST - 6.7L. (Refer to 28 - DTC-Based Diagnostics/ MODULE, Powertrain Control (PCM) - Standard Procedure).

No • Go To 3

3. CHECK THE BATTERY(S)

1. Perform battery load test using the Midtronics Micro 420 battery system tester.

Did the batteries pass the test?

Yes • Go To 4

No • Replace the weak battery or batteries.
• Perform the POWERTRAIN VERIFICATION TEST - 6.7L. (Refer to 28 - DTC-Based Diagnostics/ MODULE, Powertrain Control (PCM) - Standard Procedure).

4. CHECK FOR HIGH RESISTANCE IN WIRE HARNESS

1. Turn the ignition off.
2. Disconnect the PCM harness connectors.
3. Disconnect the battery terminals.
4. Measure the resistance from the positive and negative battery posts to the appropriate circuits in the PCM harness connector.

Is the resistance below 5.0 Ohms?

Yes • Go To 5

No • Repair the high resistance in the wire harness.
• Perform the POWERTRAIN VERIFICATION TEST - 6.7L. (Refer to 28 - DTC-Based Diagnostics/ MODULE, Powertrain Control (PCM) - Standard Procedure).

5. POWERTRAIN CONTROL MODULE

1. Reconnect the battery terminals.
2. Measure and record the voltage between battery positive pins of the PCM connector and the battery negative circuits of the PCM harness connector.
3. Reconnect the PCM harness connectors.
4. Use the scan tool to measure and record battery voltage.

Are the readings within 3.0 Volts of each other?

Yes • Perform the INTERMITTENT CONDITION diagnostic procedure. (Refer to 28 - DTC-Based Diagnostics/ MODULE, Powertrain Control (PCM) - Standard Procedure).

No • Replace and program 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).