## Symptom:

## P1763-GOVERNOR PRESSURE SENSOR VOLTS TOO HI

**When Monitored and Set Condition:**

**P1763-GOVERNOR PRESSURE SENSOR VOLTS TOO HI**

When Monitored: Continuously with the key on and the engine running.

Set Condition: This code will set when the voltage from the governor pressure sensor is above 4.89 volts for 8.5 seconds.

| POSSIBLE CAUSES |
|---|
| OTHER TRANSMISSION DTC'S PRESENT |
| PARK NEUTRAL DTC PRESENT |
| TRANSMISSION FLUID LEVEL AND CONDITION |
| INTERMITTENT PROBLEM |
| 5 VOLT SUPPLY CIRCUIT OPEN |
| GOV PRESSURE SENSOR SIGNAL CIRCUIT OPEN |
| SENSOR GROUND CIRCUIT OPEN |
| GOV PRESS SENSOR SIGNAL CKT SHORT TO VOLTAGE |
| 5 VOLT SUPPLY CIRCUIT OPEN INSIDE TRANS |
| GOV PRESS SENSOR SIGNAL CKT OPEN INSIDE TRANS |
| GOV PRESS SENSOR GROUND CKT OPEN INSIDE TRANS |
| GOV PRESS SENSOR SIGNAL CKT SHORT TO VOLTAGE INSIDE TRANS |
| GOVERNOR PRESSURE SENSOR (HIGH) |
| POWERTRAIN CONTROL MODULE |

| TEST | ACTION | APPLICABILITY |
|---|---|---|
| 1 | Turn the ignition on.<br>With the DRBIII®, read DTCs.<br>Is the Good Trip Counter for P1763 displayed and equal to 0?<br>Yes → Go To 2<br>No → Go To 15 | All |
| 2 | Turn the ignition on.<br>With the DRBIII®, read DTCs.<br>Are any other transmission DTCs present?<br>Yes → Repair all other transmission DTCs before proceeding. Perform TRANSMISSION VERIFICATION TEST VER - 1.<br>No → Go To 3 | All |

## P1763-GOVERNOR PRESSURE SENSOR VOLTS TOO HI — Continued

| TEST | ACTION | APPLICABILITY |
|---|---|---|
| 3 | Turn the ignition on.<br>With the DRBIII®, read DTCs.<br>Is a Park/Neutral DTC present?<br>Yes → Repair the Park/Neutral DTC before proceeding. Perform TRANSMISSION VERIFICATION TEST VER - 1.<br>No → Go To 4 | All |
| 4 | Start the engine.<br>Allow the transmission to reach normal operating temperature.<br>Check the fluid level and condition.<br>Is the fluid level correct and the fluid condition OK?<br>Yes → Go To 5<br>No → Repair the transmission fluid level and condition as necessary. Perform TRANSMISSION VERIFICATION TEST VER - 1. | All |
| 5 | Turn the ignition off.<br>Disconnect the Transmission Solenoid Assembly harness connector.<br>Disconnect the PCM C2 harness connector.<br>**Check connectors - Clean/repair as necessary**<br>Measure the resistance of the 5 volt supply circuit between the Transmission Solenoid Assembly harness connector and the PCM C2 harness connector.<br>Is the resistance below 5.0 ohms?<br>Yes → Go To 6<br>No → Repair the 5 volt supply circuit for an open. Perform TRANSMISSION VERIFICATION TEST VER - 1. | All |
| 6 | Turn the ignition off.<br>Disconnect the Transmission Solenoid Assembly harness connector.<br>Disconnect the PCM C2 harness connector.<br>**Check connectors - Clean/repair as necessary**<br>Measure the resistance of the governor pressure sensor signal circuit between the Transmission Solenoid Assembly harness connector and the PCM C2 harness connector.<br>Is the resistance below 5.0 ohms?<br>Yes → Go To 7<br>No → Repair the governor pressure sensor signal circuit for an open. Perform TRANSMISSION VERIFICATION TEST VER - 1. | All |
| 7 | Turn the ignition off.<br>Disconnect the Transmission Solenoid Assembly harness connector.<br>Disconnect the PCM C1 harness connector.<br>**Check connectors - Clean/repair as necessary.**<br>Measure the resistance of the sensor ground circuit between the Transmission Solenoid Assembly harness connector and the PCM C1 harness connector.<br>Is the resistance below 5.0 ohms?<br>Yes → Go To 8<br>No → Repair the sensor ground circuit for an open. Perform TRANSMISSION VERIFICATION TEST VER - 1. | All |

## P1763-GOVERNOR PRESSURE SENSOR VOLTS TOO HI — Continued

| TEST | ACTION | APPLICABILITY |
|---|---|---|
| 8 | Turn the ignition off.<br>Disconnect the Transmission Solenoid Assembly harness connector.<br>Disconnect the PCM C2 harness connector.<br>**Check connectors - Clean/repair as necessary.**<br>Turn the ignition on.<br>Measure the voltage of the governor pressure sensor signal circuit in the Transmission Solenoid Assembly harness connector.<br>Is the voltage above 1.0 volt?<br>Yes → Repair the governor pressure sensor signal circuit for a short to voltage.<br>Perform TRANSMISSION VERIFICATION TEST VER - 1.<br>No → Go To 9 | All |
| 9 | Turn the ignition off.<br>Disconnect the Transmission Solenoid Assembly harness connector.<br>Remove the transmission oil pan.<br>Disconnect the Governor Pressure/Transmission Temperature Sensor harness connector.<br>Measure the resistance of the 5 volt supply circuit between the Governor Pressure/Transmission Temperature Sensor harness connector and the Transmission Solenoid Assembly harness connector.<br>Is the resistance below 5.0 ohms?<br>Yes → Go To 10<br>No → Replace the Transmission Solenoid Assembly in accordance with the Service Information.<br>Perform TRANSMISSION VERIFICATION TEST VER - 1. | All |
| 10 | Turn the ignition off.<br>Disconnect the Transmission Solenoid Assembly harness connector.<br>Remove the transmission oil pan.<br>Disconnect the Governor Pressure/Transmission Temperature Sensor harness connector.<br>**Note: Check connectors - Clean/repair as necessary.**<br>Measure the resistance of the governor pressure sensor signal circuit between the Transmission Solenoid Assembly harness connector and the Governor Pressure/Transmission Temperature Sensor harness connector.<br>Is the resistance below 5.0 ohms?<br>Yes → Go To 11<br>No → Replace the Transmission Solenoid Assembly in accordance with the Service Information.<br>Perform TRANSMISSION VERIFICATION TEST VER - 1. | All |

## P1763-GOVERNOR PRESSURE SENSOR VOLTS TOO HI — Continued

| TEST | ACTION | APPLICABILITY |
|---|---|---|
| 11 | Turn the ignition off.<br>Disconnect the Transmission Solenoid Assembly harness connector.<br>Remove the transmission oil pan.<br>Disconnect the Governor Pressure/Transmission Temperature Sensor harness connector.<br>**Note: Check connectors - Clean/repair as necessary.**<br>Measure the resistance of the sensor ground circuit between the Transmission Solenoid Assembly harness connector and the Governor Pressure/Transmission Temperature Sensor harness connector.<br>Is the resistance below 5.0 ohms?<br>Yes → Go To 12<br>No → Replace the Transmission Solenoid Assembly in accordance with the Service Information.<br>Perform TRANSMISSION VERIFICATION TEST VER - 1. | All |
| 12 | Turn the ignition off.<br>**Note: The Transmission Solenoid Assembly harness connector must be connected before proceeding.**<br>Remove the transmission oil pan.<br>Disconnect the Governor Pressure/Transmission Temperature Sensor harness connector.<br>**Note: Check connectors - Clean/repair as necessary.**<br>Turn the ignition on.<br>Measure the voltage of the governor pressure sensor signal circuit in the Governor Pressure/Transmission Temperature Sensor harness connector.<br>Is the voltage above 1.0 volt?<br>Yes → Replace the Transmission Solenoid Assembly in accordance with the Service Information.<br>Perform TRANSMISSION VERIFICATION TEST VER - 1.<br>No → Go To 13 | All |
| 13 | Start the engine.<br>**CAUTION: Set the parking brake.**<br>Place the gear selector in Neutral.<br>With the DRBIII®, read the governor pressure voltage.<br>Measure the voltage of the governor pressure sensor signal circuit by back probing at the PCM.<br>Compare the voltmeter reading of the governor pressure sensor signal circuit to the DRBIII® Governor Pressure Sensor voltage.<br>Does the DRBIII® Gov Press Sensor voltage match the governor pressure sensor voltage on the voltmete<br>Yes → Go To 14<br>No → Replace and program the Powertrain Control Module in accordance with the Service Information.<br>Perform TRANSMISSION VERIFICATION TEST VER - 1. | All |
| 14 | If there are no possible causes remaining, view repair.<br>Repair<br>Replace the Governor Pressure/Transmission Temperature Sensor in accordance with the Service Information.<br>Perform TRANSMISSION VERIFICATION TEST VER - 1. | All |

## P1763-GOVERNOR PRESSURE SENSOR VOLTS TOO HI — Continued

| TEST | ACTION | APPLICABILITY |
|---|---|---|
| 15 | At this time, the conditions required to set the DTC are not present.<br>**Note: Use the Freeze Frame Data to help duplicate the conditions that set the DTC. Pay particular attention to the DTC set conditions, such as, VSS, MAP, ECT, and Load.**<br>**Note: Visually inspect the related wiring harness. Look for any chafed, pierced, pinched, or partially broken wires.**<br>**Note: Visually inspect the related wiring harness connectors. Look for broken, bent, pushed out, or corroded terminals.**<br>**Note: Refer to any technical service bulletins that may apply.**<br>Were any problems found?<br>Yes → Repair as necessary. Perform TRANSMISSION VERIFICATION TEST VER - 1.<br>No → Test Complete. | All |