

Symptom:**P0841-LR PRESSURE SWITCH SENSE CIRCUIT****When Monitored and Set Condition:****P0841-LR PRESSURE SWITCH SENSE CIRCUIT**

When Monitored: Whenever the engine is running.

Set Condition: The appropriate DTC is set if one of the Pressure Switches are open or closed at the wrong time in a given gear .

POSSIBLE CAUSES

LOSS OF PRIME DTC P0944 PRESENT
 TCM POWER INPUT DTCS PRESENT
 TCM AND WIRING
 TRANSMISSION CONTROL RELAY OUTPUT CIRCUIT OPEN
 L/R PRESSURE SWITCH SENSE CIRCUIT OPEN
 L/R PRESSURE SWITCH SENSE CIRCUIT SHORT TO GROUND
 L/R PRESSURE SWITCH SENSE CIRCUIT SHORT TO VOLTAGE
 TRANSMISSION CONTROL MODULE
 INTERMITTENT WIRING AND CONNECTORS

TEST	ACTION	APPLICABILITY
1	<p>NOTE: Low fluid level can be the cause of many Transmission problems. If the fluid level is low locate and repair the leak then check and adjust the fluid level per the Service Information.</p> <p>NOTE: Always perform diagnostics with a fully charged battery to avoid false symptoms.</p> <p>With the DRBIII®, read the engine DTC's. Check and repair all engine DTC's prior to performing Transmission Symptom Diagnostics.</p> <p>With the DRBIII®, read Transmission DTC's. Record all DTC's and 1 Trip Failures.</p> <p>NOTE: Diagnose 1 Trip Failures as a fully matured DTC.</p> <p>Using the wiring diagram/schematic as a guide, inspect the wiring and connectors. Repair as necessary.</p> <p>Perform the Shift Lever Position Test. If the test does not pass, refer to Symptom test for P0706 Check Shifter Signal.</p> <p>For Gear Ratio DTC's, check and record all CVI's.</p> <p>Most DTC's set on start up but some must be set by driving the vehicle such that all diagnostic monitors have run.</p> <p>NOTE: Verify flash level of Transmission Control Module. Some problems are corrected by software upgrades to the Transmission Control Module.</p> <p>NOTE: Check for applicable Service Bulletins related to the symptom.</p> <p>Perform this procedure prior to Symptom diagnosis.</p> <p>Continue Go To 2</p>	All

P0841-LR PRESSURE SWITCH SENSE CIRCUIT — Continued

TEST	ACTION	APPLICABILITY
2	<p>With the DRBIII®, check for other Transmission DTC's. Is the DTC P0944 present also?</p> <p>Yes → Refer to the Transmission category and perform the appropriate symptom. Perform 41TE TRANSMISSION VERIFICATION TEST - VER 1.</p> <p>No → Go To 3</p>	All
3	<p>With the DRBIII®, read Transmission DTCs. Are there any TCM Power Input DTCs present?</p> <p>Yes → Refer to the Transmission category and perform the appropriate symptom. Perform 41TE TRANSMISSION VERIFICATION TEST - VER 1.</p> <p>No → Go To 4</p>	All
4	<p>With the DRBIII®, Check the STARTS SINCE SET counter for P0841. NOTE: This counter only applies to the last DTC set. Is the STARTS SINCE SET counter 2 or less?</p> <p>Yes → Go To 5</p> <p>No → Go To 11</p>	All
5	<p>Turn the ignition off to the lock position. Remove the Starter Relay. CAUTION: Removal of the Starter Relay is to prevent a Transmission, NO RESPONSE, condition and disable the starter. Install the Transmission Simulator, Miller tool #8333 and the Electronic Transmission Adapter kit, Miller tool #8333-1A. Note: Check connectors - Clean/repair as necessary. Ignition on, engine not running. On the Transmission Simulator select L/R on the Pressure Switch selector switch. With the DRBIII®, monitor the L/R Pressure Switch state while pressing the Pressure Switch Test button on the Transmission Simulator. Did the Pressure Switch state change from OPEN to CLOSED when the test button was pressed?</p> <p>Yes → Replace the Transmission Solenoid/Pressure Switch Assembly per the Service Information. Perform 41TE TRANSMISSION VERIFICATION TEST - VER 1.</p> <p>No → Go To 6</p>	All

P0841-LR PRESSURE SWITCH SENSE CIRCUIT — Continued

TEST	ACTION	APPLICABILITY
6	<p>Turn the ignition off to the lock position. Disconnect the Transmission Solenoid/Pressure Switch Assembly harness connector. Remove the Transmission Control Relay. Note: Check connectors - Clean/repair as necessary. Connect a jumper wire between the Fused B+ circuit and Transmission Control Relay Output circuit in the Transmission Control Relay connector. Using a 12-volt test light connected to ground, check the Transmission Control Relay Output circuit in the Solenoid/Pressure Switch Assembly harness connector. NOTE: The test light must illuminate brightly. Compare the brightness to that of a direct connection to the battery. Does the test light illuminate brightly?</p> <p>Yes → Go To 7</p> <p>No → Repair the Transmission Control Relay Output circuit for an open or high resistance. If the fuse is open make sure to check for a short to ground. Perform 41TE TRANSMISSION VERIFICATION TEST - VER 1.</p>	All
7	<p>Turn the ignition off to the lock position. Disconnect the TCM harness connector. Disconnect the Transmission Solenoid/Pressure Switch Assembly harness connector. Note: Check connectors - Clean/repair as necessary. Measure the resistance of the L/R Pressure Switch Sense circuit from the TCM harness connector to the Transmission Solenoid/Pressure Switch Assembly harness connector. Is the resistance above 5.0 ohms?</p> <p>Yes → Repair the L/R Pressure Switch Sense circuit for an open. Perform 41TE TRANSMISSION VERIFICATION TEST - VER 1.</p> <p>No → Go To 8</p>	All
8	<p>Turn the ignition off to the lock position. Disconnect the TCM harness connector. Disconnect the Transmission Solenoid/Pressure Switch Assembly harness connector. Note: Check connectors - Clean/repair as necessary. Measure the resistance between ground and the L/R Pressure Switch Sense circuit. Is the resistance below 5.0 ohms?</p> <p>Yes → Repair the L/R Pressure Switch circuit for a short to ground. Perform 41TE TRANSMISSION VERIFICATION TEST - VER 1.</p> <p>No → Go To 9</p>	All
9	<p>Turn the ignition off to the lock position. Disconnect the TCM harness connector. Disconnect the Transmission Solenoid/Pressure Switch Assembly harness connector. Remove the Transmission Control Relay. Note: Check connectors - Clean/repair as necessary. Connect a jumper wire between the Fused B+ circuit and Transmission Control Relay Output circuit in the Transmission Control Relay connector. Ignition on, engine not running. Measure the voltage of the L/R Pressure Switch Sense circuit. Is the voltage above 0.5 volt?</p> <p>Yes → Repair the L/R Pressure Switch Sense circuit for a short to voltage. Perform 41TE TRANSMISSION VERIFICATION TEST - VER 1.</p> <p>No → Go To 10</p>	All

P0841-LR PRESSURE SWITCH SENSE CIRCUIT — Continued

TEST	ACTION	APPLICABILITY
10	<p>Using the schematics as a guide, inspect the wiring and connectors. Repair as necessary. Pay particular attention to all power and ground circuits. If there are no possible causes remaining, view repair</p> <p>Repair</p> <p>Replace the Transmission Control Module per the Service Information. WITH THE DRBIII® PERFORM QUICK LEARN AND REPROGRAM PINION FACTOR. Perform 41TE TRANSMISSION VERIFICATION TEST - VER 1.</p>	All
11	<p>The conditions necessary to set this DTC are not present at this time. Using the schematics as a guide, inspect the wiring and connectors specific to this circuit. Wiggle the wiring while checking for shorted and open circuits. With the DRBIII®, check the EATX EVENT DATA to help identify the conditions in which the DTC was set. Were there any problems found?</p> <p>Yes → Repair as necessary. Perform 41TE TRANSMISSION VERIFICATION TEST - VER 1.</p> <p>No → Test Complete.</p>	All