P1495

TEST	ACTION	APPLICABILITY
1	Start by reading PCM DTC(s) and record the related Freeze Frame data if any DTC(s) are present. Check the vehicle repair history. If the vehicle has a repair history that pertains to the customer's current complaint, review the repair. **NOTE: Replacing the PCM will not correct this problem.** Inspect the vehicle for any aftermarket accessories that may have been installed incorrectly. Check for any service bulletin(s) related to the customer's complaint or DTC(s). If a service bulletin applies, follow the instructions per service bulletin. Did the service bulletin repair the customer's complaint? Yes → Testing Complete. Perform POWERTRAIN VERIFICATION TEST VER - 6. No → Go To 2	All
2	Ignition on, engine not running. With the DRBIII®, read DTCs and record the related Freeze Frame data. Is the DTC Good Trip Counter displayed and equal to zero for P-1495? Yes → Go To 3 No → Go To 9	All

TEST	ACTION	APPLICABILITY
3	Turn the ignition off. Disconnect the Leak Detection Pump electrical harness connector. Start the engine. With the DRBIII®, actuate the LDP Solenoid. Using a 12 volt test light connected to ground, check the Generator Source Circuit at the LDP connector. Does the test light illuminate brightly? Yes → Go To 4 No → Repair the Generator Source Circuit for an open. Perform POWERTRAIN VERIFICATION TEST VER - 6.	All
4	Turn the ignition off. Connect a 12-volt test light to a good 12 volt source. Ignition on, engine not running. With the DRBIII®, actuate the LDP Solenoid. Check the LDP Solenoid Control circuit with the test light while the Pump is actuating. Does the test light blink? Yes → Go To 5 No → Go To 6	All
5	If there are no possible causes remaining, view repair. Repair Replace the Leak Detection Pump. Perform POWERTRAIN VERIFICATION TEST VER - 6.	All
6	Measure the resistance between ground and the LDP Solenoid Control circuit. Is the resistance below 100 ohms? Yes → Repair the LDP Solenoid Control Circuit for a short to ground. Perform POWERTRAIN VERIFICATION TEST VER - 6. No → Go To 7	All
7	Turn the ignition off. Disconnect the Leak Detection Pump Solenoid harness connector. Disconnect the PCM harness connector(s). Measure the resistance of the LDP Solenoid Control Circuit from the PCM harness connector to the LDP harness connector. Is the resistance below 5.0 ohms? Yes → Go To 8 No → Repair the Leak Detection Pump Solenoid Control Circuit for an open. Perform POWERTRAIN VERIFICATION TEST VER - 6.	All
8	If there are no possible causes remaining, view repair. Repair Replace and program the Powertrain Control Module in accordance with the Service Information. Perform POWERTRAIN VERIFICATION TEST VER - 6.	All

TEST	ACTION	APPLICABILITY
9	At this time, the conditions required to set the DTC are not present. **NOTE: Use the Freeze Frame Data to help you duplicate the conditions that set the DTC. Pay particular attention to the DTC set conditions, such as, VSS, MAP, ECT, and Load.** **NOTE: Visually inspect the related wiring harness. Look for any chafed, pierced, pinched, or partially broken wires.** **NOTE: Visually inspect the related wire harness connectors. Look for broken, bent, pushed out, or corroded terminals.** **NOTE: Refer to any Technical Service Bulletins (TSB's) that may apply.** Perform a wiggle test of the LDP wiring while the circuit is actuated with the DRBIII®. Listen for the LDP to quit actuating. Also watch for the Good Trip Counter to change to 0. Did the LDP Solenoid ever stop or start clicking? Yes → Repair as necessary where wiggling caused problem to appear. Perform POWERTRAIN VERIFICATION TEST VER - 6. No → Test Complete.	All

SYMPTOM

P1495-LEAK DETECTION PUMP SOLENOID CIRCUIT

WHEN MONITORED

Ignition on and battery voltage greater than **10.4 Volts**.

SET CONDITION

The state of the solenoid circuit does not match the PCM's desired state.

POSSIBLE CAUSES

- Vehicle History and Service Bulletin Investigation
- Generator source circuit open
- Leak detection pump solenoid control circuit open
- LDP solenoid control circuit shorted to ground
- Leak detection pump
- Wiring Harness Intermittent
- Powertrain control module