YMMS: 2001 Dodge Pickup R3500 Dec 5, 2022
Engine: 5.9L Eng License:
VIN: 1B7MF33761J545044 Odometer:

DTC P1495: LEAK DETECTION PUMP SOLENOID CIRCUIT

NOTE: *For circuit identification and wiring diagram, see WIRING DIAGRAMS article. If Powertrain Control Module (PCM) is replaced, PCM must be reprogrammed. See PROGRAMMING. After each repair procedure has been completed, reconnect all components. Perform POWERTRAIN VERIFICATION TEST VER-6 under VERIFICATION TESTS to ensure system is functioning properly.*

Description

Leak Detection Pump (LDP) solenoid operation is monitored when ignition is on and battery voltage is more than 10.4 volts. DTC will be stored in Powertrain Control Module (PCM) if state of LDP solenoid does not match state desired by PCM. Possible causes for DTC to set are: defective LDP, defective PCM, or defective connectors or wiring.

Testing

1. Turn ignition on. Using scan tool, read DTCs. If GOOD TRIP counter is displayed for DTC P1495 and displayed count is "0", go to next step. If GOOD TRIP counter is not displayed for DTC P1495 or displayed count is not "0", go to step 6.
2. Turn ignition off. Disconnect Leak Detection Pump (LDP) connector. LDP is located near passenger's side front corner of engine compartment. See Figure. Turn ignition on. Using scan tool, actuate LEAK DETECTION PUMP. Using a test light connected to ground, probe terminal No. 2 (Dark Blue wire) at LDP harness connector. See Figure. If test light illuminates brightly, go to next step. If test light does not illuminate brightly, repair open in Dark Blue wire between LDP and PCM. PCM is located in right rear corner of engine compartment. See Figure.
3. Using a test light connected to battery voltage, probe terminal No. 3 (White/Dark Green wire) at LDP harness connector. If test light does not flash on and off, stop leak detection pump activation and go to next step. If test light flashes on and off, replace LDP.
4. Turn ignition off. Disconnect PCM connectors. PCM is located in right rear corner of engine compartment. See Figure. Ensure LDP is still disconnected. Measure resistance between ground and terminal No. 3 (White/Dark Green wire) at LDP harness connector. If resistance is 5 ohms or more, go to next step. If resistance is less than 5 ohms, repair short to ground in White/Dark Green wire between LDP and PCM.
5. Measure resistance of White/Dark Green wire between terminal No. 3 at LDP harness connector and terminal No. 10 at PCM C3 harness connector. If resistance is less than 5 ohms, replace PCM. If resistance is 5 ohms or more, repair open in White/Dark Green wire.

6. At this time, conditions for LDP solenoid circuit malfunction do not exist. Turn ignition off. Inspect wiring harness and connectors between PCM and LDP. PCM is located in right rear corner of engine compartment. See Figure. LDP is located near passenger's side front corner of engine compartment. See Figure. If any problems exist, repair wiring or connectors as necessary. If no problems exist, turn ignition on. Using scan tool, actuate LEAK DETECTION PUMP. Wiggle wiring harness and connectors between PCM and LDP while listening for LDP to stop operating and noting GOOD TRIP counter. If LDP does not stop operating while wiggling wiring harness and connectors, and GOOD TRIP counter does not change to zero, no problem is indicated at this time. Test is complete. If LDP stops operating while wiggling wiring harness and connectors, or GOOD TRIP counter changes to zero, repair wiring or connectors between PCM and LDP as necessary.