

YMMS: 2001 Dodge Pickup R3500
Engine: 5.9L Eng
VIN: 1B7MF33761J545044

Dec 5, 2022
License:
Odometer:

P1495, Replaced EVAP Leak Detection Unit

Fixed It! 28

Complaint

The customer states the check engine light is on.

Cause

Connected a scan tool and found code P1495 - Leak Detection Pump Solenoid Circuit. Performed a visual inspection of the EVAP leak detection unit and EVAP hoses and found no evidence of any damage. Used the scan tool to clear the fault code and perform an EVAP leak detection unit service bay test, but found the fault code returned. With the engine at idle, connected a vacuum gauge to the EVAP leak detection unit vacuum source hose and found the measured vacuum was within the specified range of 17-21 "Hg. Disconnected the EVAP leak detection unit wiring harness connector, inspected the terminals and found no visible faults. Key on, used a multi-meter to measure the ignition switch output voltage at the EVAP leak detection unit wiring harness connector and found battery voltage was present. Backprobed the EVAP leak detection unit switch sense circuit at the EVAP leak detection unit wiring harness connector and connected the multi-meter to measure the EVAP leak detection unit switch sense voltage. Connected a vacuum pump to the vacuum source port on the EVAP leak detection unit, pumped the vacuum pump to 20 "Hg and released the vacuum while the EVAP leak detection unit switch sense voltage was monitored on the multi-meter. Found the EVAP leak detection unit switch sense voltage changed. Connected the multi-meter across the EVAP leak detection unit solenoid control and ignition switch output terminals to check the solenoid for continuity and found it was electrically open. The results of these tests verified the EVAP leak detection unit was faulty.

Correction

Replaced the EVAP leak detection unit, cleared codes, performed a road test and verified the vehicle operated properly. The check engine light did not illuminate and no fault codes returned.