DTC B1424

Diagnostic Instructions

a) Perform the Diagnostic System Check - Vehicleon prior to using this diagnosticprocedure.
b) Review Strategy Based Diagnosisfor an overview of the diagnostic approach.
c) Diagnostic Procedure Instructions provides an overview of each diagnosticcategory.

DTC Descriptor

DTC B1424 00: Device Voltage Low – TheftDeterrent Module

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
B+	B1424 00	B1424 00	—	—
Ground	—	B1424 00	—	—

Circuit/System Description

The theft deterrent module (TDM) monitors the battery positive (B+) voltage available to it. If the voltage at the TDM is between 6–9 volts, and the voltage being reported by a serial data message is greaterthan 9 volts, then DTC B1424 00 sets.

Conditions for Running the DTC

a) The ignition switch is in Accessory or Run.
b) This diagnostic runs every 100 milliseconds.

Conditions for Setting the DTC

a) Voltage at the TDM B+ circuit is between 6–9 volts.
b) Reported battery voltage received via serial data is valid and is greater than 9 volts.
c) The above conditions have been met for 2 seconds.

Action Taken When the DTC Sets

a) The security indicator turns ON.
b) The driver information center (DIC) displays the SERVICE THEFT DETERRENT SYSTEM message.

Conditions for Clearing the DTC

a) This DTC passes when the battery voltage at the TDM is greater than 9 volts, or if the voltage reported by serial data is less than 9 volts.
b) A history DTC clears after 100 consecutive ignition cycles, if no failures are reported by this diagnostic.

Diagnostic Aids

A low voltage DTC in multiple modules indicates a concern in the charging system.

Circuit/System Testing

1) Engine running, accessories OFF, measure and record the battery voltage at the battery terminals. The voltage should be between 12.6 and 15.0 volts.

If not within the specified range, refer to Charging System Test (Acadia or Enclave) or Charging SystemTest (OUTLOOK)

2) Ignition OFF, disconnect the harness connector at the TDM.
3) Ignition OFF and scan tool disconnected, open and close the driver door, and wait 1 minute. Test for less than 5 ohms between the ground circuit terminal 3 and ground.

If greater than the specified range, test the ground circuit for an open/high resistance.

4) Verify that a test lamp illuminates between the B+ circuit terminal 1 and ground.

If the test lamp does not illuminate, test the B+ circuit for a short to ground or an open/high resistance.

5) If all circuits test normal, replace the TDM.