

DTC B2530

Diagnostic Instructions

- Perform the Diagnostic System Check – Vehicle on page 6-60 prior to using this diagnostic procedure.
- Review Strategy Based Diagnosis on page 6-57 for an overview of the diagnostic approach.
- Diagnostic Procedure Instructions on page 6-58 provides an overview of each diagnostic category.

DTC Descriptor

DTC B2530 00: Front Fog Lamp Control Circuit

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
Front Fog Lamp Relay Control	1	2	B2530 00	—
1. Fog Lamps Always On 2. Fog Lamps Inoperative				

Circuit/System Description

Voltage is applied at all times to the fog lamp relay. When the fog lamp switch is placed in the ON position, a ground signal is applied to the body control module (BCM) through the fog lamp switch signal circuit. The BCM then applies a ground to the fog lamp relay control circuit. This engages the fog lamp relay and applies voltage through the FOG LAMP fuse to the front fog lamps.

Conditions for Running the DTC

- The ignition is ON.
- Park lamps must be ON and the fog lamps must be commanded ON.

Conditions for Setting the DTC

The BCM detects a short to voltage on the front fog lamp control circuit.

Action Taken When the DTC Sets

The front fog lamps do not illuminate.

Conditions for Clearing the DTC

- a) The conditions for setting the DTC are no longer present.
- b) A history DTC clears after 100 malfunction-free ignition cycles.

Circuit/System Verification

Ignition ON, command the Fog Lamps ON with a scan tool. The Front Fog Lamp Relay Command parameter should display On and the front fog lamps should illuminate.

Circuit/System Testing

- 1) Ignition OFF, disconnect the fog lamp relay.
- 2) Ignition ON, verify that a test lamp does not illuminate between the control circuit terminal 85 and ground.
If the test lamp illuminates, test the control circuit for a short to voltage.
- 3) If all circuits test normal, replace the BCM.