

DTC B2610

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 B2610 00: Passenger Compartment Dimming 1 Circuit

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
LED Backlight Lamp Control	B2610 00	2	1	—
1. Interior LED Backlighting Does Not Dim 2. Interior LED Backlighting Inoperative				

Circuit/System Description

The body control module (BCM) supplies a voltage reference through the instrument panel (I/P) dimming voltage reference circuit to the interior lamp dimmer switch, which is part of the headlamp switch. When the dimmer switch is placed in a desired brightness position, reference voltage is applied through the dimmer switch rheostat and the I/P lamps dimmer switch signal circuit to the BCM. The BCM interprets this voltage signal, then applies a variable voltage through the LED backlight lamp control circuit illuminating the components listed below, if equipped:

- Clock
- Console flood lamp
- Diver information center (DIC) switch
- Driver window switch
- Headlamp switch
- Head up display (HUD) Switch
- Heated seat switches
- HVAC control head

- i) I/P switch assembly
- j) Radio
- k) Rear seat audio (RSA) control
- l) Rear video/HVAC control
- m) Steering wheel control switch

Conditions for Running the DTC

- a) The ignition is ON.
- b) The headlamps or park lamps ON.

Conditions for Setting the DTC

The BCM detects a short to ground on the LED backlight lamp control circuit.

Action Taken When the DTC Sets

The BCM will not DIM or illuminate any LED backlighting supplied by the backlight lamp control circuits.

Conditions for Clearing the DTC

A history DTC will clear once 100 consecutive malfunction ignition cycles have occurred.

Circuit/System Verification

Ignition ON, command LED Dimming ON with a scan tool. The LED Dimming Relay Command parameter should display On and the LED Dimming should illuminate.

Circuit/System Testing

- 1) Ignition OFF, disconnect the harness connectors at all components fed by the LED backlight lamp control circuits listed below.
 - a) LED backlight lamp control terminal 18 X3
 - b) LED backlight lamp control terminal 21 X6
- 2) Ignition ON, clear the DTC with a scan tool.

- 3) Operate the vehicle within the conditions for running the DTC and verify the DTC does not reset.
If the DTC resets, test the control circuits for a short to ground. If the circuits test normal, replace the BCM.
- 4) Reconnect each component one at a time and verify that the DTC does not reset as current.
If the DTC resets as current, test or replace the component responsible for setting the DTC.

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