DTC B2615

SIE-ID = 1967364 Owner = dmcgre01 LMD = 13-aug-2007 LMB = tdedvu01

Diagnostic Instructions

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

DTC Descriptor

DTC B2615 00: Passenger Compartment Dimming 2 Circuit

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
B+, BCM X4 Terminal 2	B2615 00	B2615 00	—	—
Courtesy Lamps Control	B2615 00	2	1	—
1. Courtesy Lamps Always On 2. Courtesy Lamps Inoperative				

Circuit/System Description

Battery voltage for the courtesy lamps is supplied at all times, from the CTSY Fuse located in the I/P fuse block, to the body control module (BCM). When the BCM receives a signal to command the courtesy lamps ON, it then applies voltage through the courtesy lamps control circuits to the courtesy lamps listed below.

a) Left and right footwell lamps
b) Left and right liftgate lamps
c) Courtesy/reading lamps
d) Cargo lamp

Conditions for Running the DTC

The BCM attempts to illuminate the courtesy lamps.

Conditions for Setting the DTC

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

Action Taken When the DTC Sets

The BCM will not attempt to activate courtesy lamps.

Conditions for Clearing the DTC

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

Circuit/System Verification

Ignition ON, command the Courtesy Lamps ON and OFF with a scan tool. The courtesy lamps should turn ON and OFF when changing between commanded states.

Circuit/System Testing

1) Ignition OFF, disconnect the X4 harness connector at the BCM.
2) Verify that a test lamp illuminates between the B+ circuit terminal 2 and ground.

If the test lamp does not illuminate, test the B+ circuit for a short to ground or an open/high resistance. If the circuit tests normal and the B+ circuit fuse is open, test the control circuits listed below for a short to ground.

a) Courtesy lamp control terminal 1 X6
b) Courtesy lamp control terminal 5 X2

3) Ignition OFF, connect the X4 harness connector at the BCM.
4) Disconnect the harness connectors at all components fed by the control circuits listed below.
   a) Courtesy lamp control terminal 1 X6
   b) Courtesy lamp control terminal 5 X2

5) Ignition ON, clear the DTC with a scan tool.
6) 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.

7) Reconnect each component one at a time and verify that the DTC does not reset.

If the DTC resets, test or replace the component responsible for setting the DTC.