

# B1613 PANEL ILLUMINATION CONTROL CIRCUIT LOW

- 1). When Monitored:  
With the Ignition on, and the Panel Illumination active.
- 2). Set Condition:  
Panel Illumination Status HIGH.

Possible Causes
1. (E12) PANEL LAMPS DRIVER CIRCUIT SHORTED TO GROUND
2. HEADLAMP SWITCH SHORTED TO GROUND
3. DRIVER HEATED SEAT SWITCH SHORTED TO GROUND
4. PASSENGER HEATED SEAT SWITCH SHORTED TO GROUND
5. CLOCK MODULE SHORTED TO GROUND
6. PRNDL LAMP SHORTED TO GROUND
7. SWITCH BANK SHORTED TO GROUND
8. INSTRUMENT CLUSTER

## Diagnostic Test

- 1). CHECK FOR AN ACTIVE DTC  
Turn the ignition on.  
With the scan tool, record and erase DTCs.  
Activate the Panel Illumination.  
Wait 30 seconds.  
With the scan tool, read DTCs.

Is the DTC active?

**Yes** >> Go To 2

**No** >> The condition that caused this code to set is not present at this time.  
Check for an intermittent condition by inspecting the related wiring harness for chaffed, pierced, pinched, and partially broken wires. Also inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals.  
Perform BODY VERIFICATION TEST - VER 1.

## 2). CHECK THE SWITCH BANK FOR A SHORT TO GROUND

Turn the ignition off.

Disconnect the Switch Bank harness connector.

Turn the ignition on.

Activate the Panel Illumination.

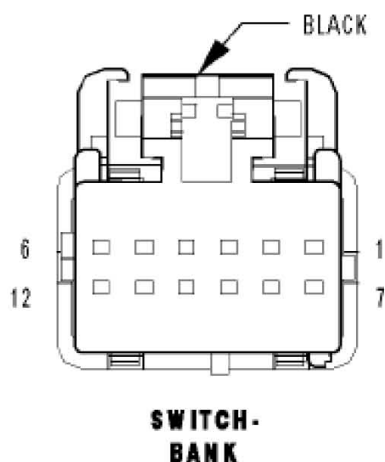
With the scan tool, read DTCs.

Does the scan tool display-B1614-PANEL ILLUMINATION CONTROL CIRCUIT HIGH?

**Yes** >> Replace the Switch Bank in accordance with the service information.

Perform BODY VERIFICATION TEST - VER 1.

**No** >> Go To 3



## 3). CHECK THE HEADLAMP SWITCH FOR A SHORT TO GROUND

Turn the ignition off.

Disconnect the Headlamp Switch harness connector.

Turn the ignition on.

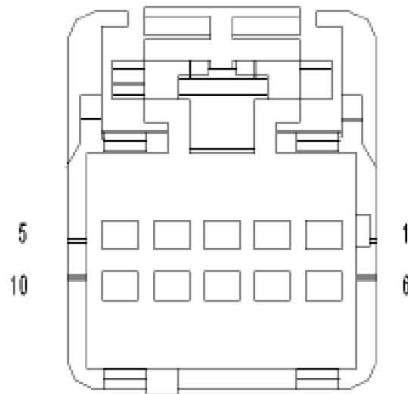
Activate the Panel Illumination.

With the scan tool, read DTCs.

Does the scan tool display-B1614-PANEL ILLUMINATION CONTROL CIRCUIT HIGH?

**Yes** >> Replace the Headlamp Switch in accordance with the service information.

**No** >> Go To 4



**SWITCH-  
HEADLAMP**

4). CHECK THE DRIVER HEATED SEAT SWITCH FOR A SHORT TO GROUND

Turn the ignition off.

Disconnect the Driver Heated Seat Switch harness connector.

Turn the ignition on.

Activate the Panel Illumination.

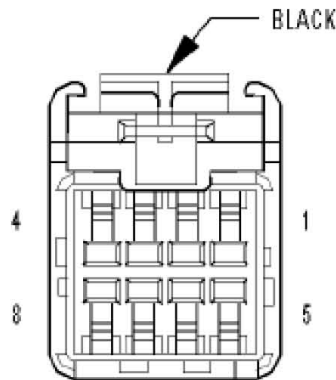
With the scan tool, read DTCs.

Does the scan tool display-B1614-PANEL ILLUMINATION CONTROL CIRCUIT HIGH?

**Yes** >> Replace the Driver Heated Seat Switch in accordance with the service information.

Perform BODY VERIFICATION TEST - VER 1.

**No** >> Go To 5



**SWITCH-  
HEATED SEAT-  
DRIVER**

5). CHECK THE PASSENGER HEATED SEAT SWITCH FOR A SHORT TO GROUND

Turn the ignition off.

Disconnect the Passenger Heated Seat Switch harness connector.

Turn the ignition on.

Activate the Panel Illumination.

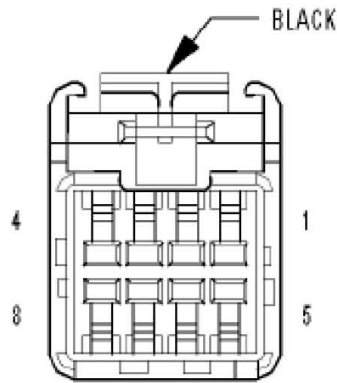
With the scan tool, read DTCs.

Does the scan tool display-B1614-PANEL ILLUMINATION CONTROL CIRCUIT HIGH?

**Yes** >> Replace the Passenger Heated Seat Switch in accordance with the service information.

Perform BODY VERIFICATION TEST - VER 1.

**No** >> Go To 6



**SWITCH-  
HEATED SEAT-  
PASSENGER**

6). CHECK THE CLOCK MODULE FOR A SHORT TO GROUND

Turn the ignition off.

Disconnect the Clock Module harness connector.

Turn the ignition on.

Activate the Panel Illumination.

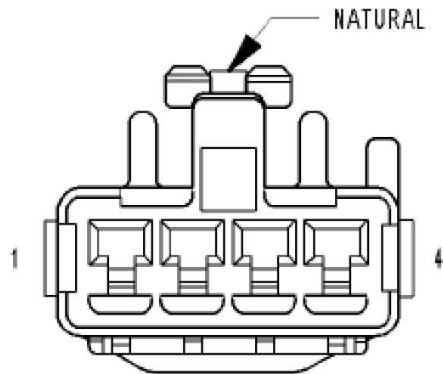
With the scan tool, read DTCs.

Does the scan tool display-B1614-PANEL ILLUMINATION CONTROL CIRCUIT HIGH?

**Yes** >> Replace the Clock Module in accordance with the service information.

Perform BODY VERIFICATION TEST - VER 1.

**No** >> Go To 7



**MODULE-  
CLOCK ANALOG**

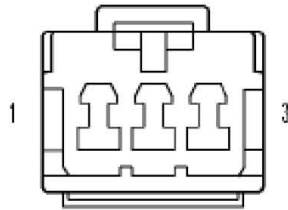
- 7). CHECK THE PRNDL LAMP FOR A SHORT TO GROUND  
 Turn the ignition off.  
 Disconnect the PRNDL Lamp harness connector.  
 Turn the ignition on.  
 Activate the Panel Illumination.  
 With the scan tool, read DTCs.

Does the scan tool display-B1614-PANEL ILLUMINATION CONTROL CIRCUIT HIGH?

**Yes** >> Replace the PRNDL Lamp in accordance with the service information.

Perform BODY VERIFICATION TEST - VER 1.

**No** >> Go To 8



**LAMP-  
PRNDL**

8). CHECK THE (E12) PANEL LAMPS DRIVER CIRCUIT FOR A SHORT TO GROUND

Turn the ignition off.

Disconnect the Instrument Cluster C3 harness connector.

With all the above components disconnected, measure the resistance to ground of the (E12) Panel Lamps Driver Circuit from the Instrument Cluster C3 harness connector.

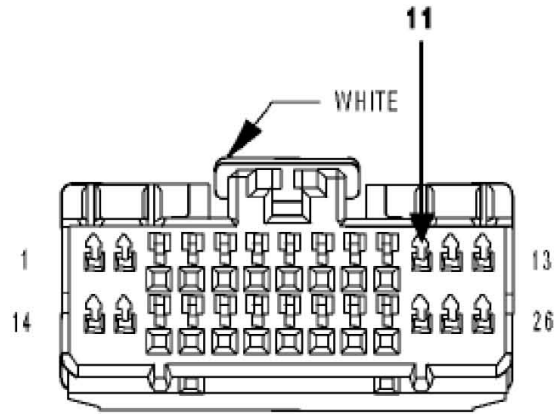
Is the resistance less than 10K ohms?

**Yes** >> Repair the (E12) Panel Lamps Driver circuit for a short to ground.

Perform BODY VERIFICATION TEST - VER 1.

**No** >> Replace the Instrument Cluster in accordance with the service information.

Perform BODY VERIFICATION TEST - VER 1.



**CLUSTER C3**

LAUNCH